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VOLUME 300

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[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*): of the United States Circuit Court of Appeals by the letter (d).]

ERRATA.

61,228 (Design), page 557, in heading, after the residence of the patentee insert *assignor to Phenix Lace Mills, Phenix, R. I., a Corporation of Rhode Island.*

Patents Nos. 1,421,357 to 1,422,066.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 300—No. 1. TUESDAY, JULY 4, 1922. Price—$5 per year.

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Adhesion of the Grand Duchy of Luxemburg to the International Convention for the Protection of Industrial Property.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., June 27, 1922.

The following communication, referred to this Office by the Secretary of the Interior, is published for the information of those concerned.

WM. A. KINNAN,
Acting Commissioner.

[Translation.]

LEGATION OF SWITZERLAND,
Washington, D. C., June 16, 1922.

Mr. Secretary of State:

On my Government's request, I have the honor to inform Your Excellency that by note dated May 12, 1922, the Legation of Luxemburg at Berne notified the Swiss Federal Council that the Government of the Grand Duchy of Luxemburg decided to adhere to the International Convention for the Protection of Industrial Property revised at Brussels on December 14, 1900, and at Washington, June 2, 1911, with its final protocol. (See article 18 of the Convention.)

In compliance with article 16, paragraph 3, of the Convention of Union of Paris as revised, that adhesion will take effect one month after the issuing of this notice, that is to say, on and after June 30, 1922.

* * * * * * *

I beg Your Excellency kindly to take note of this adhesion, and take this opportunity to renew to you, etc.

In the name of the Swiss Federal Council:

MARC PETER,
Minister of Switzerland.

4712

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 13, 1922.

Conn and Moran, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Conn and Moran, of 324½ South Hill Street, Los Angeles, Calif., and an application of Pasquale Beneduce, of 826 Monroe Street, Hoboken, N. J., for patent, and the Office having failed to secure proof of service upon Conn and Moran at their address of record, or upon Pottenger and Pottenger, of 427 Western Mutual Life Building, Los Angeles, Calif., the parties who filed said Conn and Moran's application, notice is hereby given that unless Conn and Moran, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 13, 1922.

William H. Starbuck, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Hirshberg Paint Co., 106 to 110 West Pratt Street, Baltimore, Md., for registration of a trade-mark and trade mark registered April 7, 1903, No. 40,058, to William H. Starbuck, 404 Broome Street, New York, N. Y., and a notice of such declaration sent by registered mail to said William H. Starbuck at the said address having been returned by the post office undeliverable, notice is hereby given that unless said William H. Starbuck, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 21, 1922.

Leslie & Welsh, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Flora W. Pinkus, of 93 Third Avenue, New York, for registration of a trade-mark and trade-mark registered November 6, 1894, No. 25,463, to Leslie & Welsh, 297 Main Street, Buffalo, N. Y., and a notice of such declaration sent by registered mail to said Leslie & Welsh at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Leslie & Welsh, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

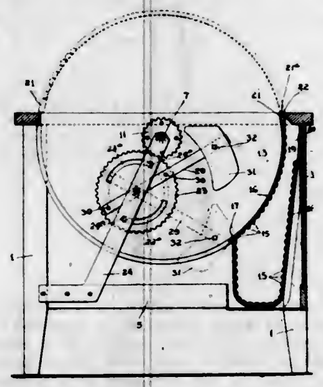
Condition of Applications Under Examination at Close of Business June 24, 1922.

Room No.	Divisions, Examiners, and subjects of inventions. (Total number of applications waiting action, excluding Trade-Mark division, 67,490; Trade-Mark division, 8,644. Oldest new case, Mar. 31; oldest amended, Mar. 23, 1921. The dates given are 1921 except where * indicates 1922.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Nov. 28	Dec. 14	917
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	June 29	July 5	1,921
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 17	Aug. 19	929
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 16	*Apr. 5	1,484
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 19	Sept. 30	1,106
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 24	*Feb. 11	1,267
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Sept. 15	Nov. 7	2,381
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 15	*Mar. 28	873
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	June 2	*Apr. 8	1,135
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 12	*Mar. 18	1,165
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Jan. 16	*Feb. 23	635
322	12. PIERCE, P. P., Machine Elements	Nov. 10	*Jan. 17	1,287
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 6	*Feb. 17	1,880
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 9	*Mar. 16	960
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 8	Aug. 13	2,038
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	June 29	July 14	2,321
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 20	*Jan. 3	1,362
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	June 1	May 5	2,416
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	June 2	Sept. 3	1,292
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Jan. 5	Dec. 23	1,603
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	July 26	Dec. 28	901
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Oct. 21	*Mar. 6	480
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	May 13	Oct. 27	789
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Aug. 23	*Jan. 20	1,189
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 5	*Apr. 5	437
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Sept. 12	Dec. 14	1,046
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 10	Sept. 12	1,971
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 7	Aug. 24	1,704
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Sept. 20	*Apr. 14	644
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 3	*Apr. 1	1,410
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 22	Aug. 17	2,142
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Aug. 12	*Mar. 6	1,004
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 12	*Jan. 9	928
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 15	*Mar. 14	563
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Feb. 13	*Apr. 6	845
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Jan. 16	*Jan. 6	1,781
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Aug. 6	Aug. 2	1,908
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 19	Oct. 20	1,771
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	May 9	May 19	2,258
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	June 29	Oct. 5	2,915
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	*Feb. 1	*Jan. 6	763
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	July 21	June 27	1,977
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	July 28	Sept. 22	1,889
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 8	*Apr. 1	514
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Nov. 16	*Jan. 5	1,257
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 10	Dec. 5	1,332
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Aug. 18	*Jan. 23	1,286
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Mar. 31	Mar. 23	2,814
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	Sept. 12	*Jan. 30	5,843
	Designs	Oct. 24	*Jan. 30	2,625
	Labels and Prints	*June 2	*June 12	176

PATENTS

GRANTED JULY 4, 1922.

1,421,357. FLAT-TOP ROLL-COVER DESK. ROBERT H. ALLWORK, New York, N. Y. Filed Oct. 24, 1921. Serial No. 509,944. 5 Claims. (Cl. 45—92.)



1. The combination, with a flat top desk, whose top is provided with slots near each side edge and a rear slot, of a shaft journalled below the desk top, segmental walls respectively operable through the side slots and carried by the shaft, the segments each exceeding a half circle, and a flexible apron secured at one end to the segmental walls, the apron adapted to be drawn through the rear slot and over the segmental walls in their rotation, to cover the desk top.

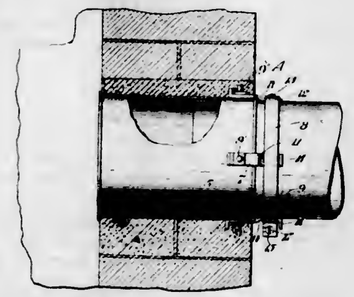
1,421,358. COMBINATION SCRAPER, CHARGER, AND TAMPER. THOMAS J. AVERY, Albia, Iowa. Filed July 15, 1921. Serial No. 484,975. 2 Claims. (Cl. 80—21.)



1. In a device of the character described, a tubular charge receiving member of uniform outside diameter for its entire length, a coupling ring secured to the charge receiving member at one end of and in axial alinement with the latter, said coupling ring having an outside diameter substantially equal to that of the charge receiving member, an inside diameter less than that of the charge receiving member, and being formed with a pair of inwardly offset arms, a second tubular member, a second coupling member carried at one end of the second tubular member and pivotally supported between the arms of the first named coupling member, a rod slidable in the second named tubular member, and a plunger slidably disposed in the charge receiving member and provided with a shank pivoted at its end to the adjacent end of the said slidable rod.

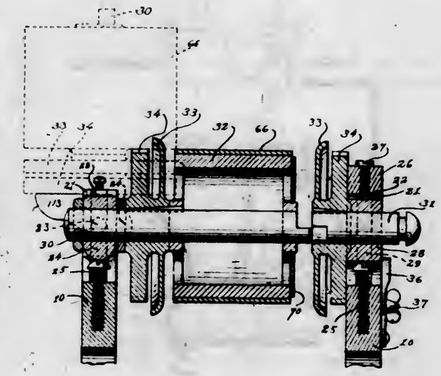
1,421,359. COMBINED THIMBLE AND STOVEPIPE HOLDER. STEVENSON R. BARR, Tacoma, Wash. Filed Aug. 15, 1921. Serial No. 492,572. 1 Claim. (Cl. 126—318.)

A device of the class described comprising a flue thimble, a plurality of strips secured exteriorly of said thimble, a split clamping band secured to one of said strips and disposed in embracing relation to the other of said strips, said band being terminally provided with a pair of depending lips, one of which has a U-shaped slot opening out the rear edge of the lip, the other of said



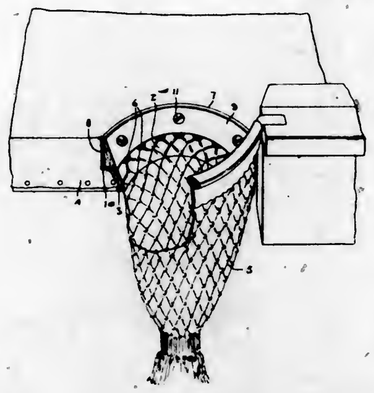
lips being bent upon itself to provide a space, a nut located in said space, and a fastening device seated within the slot of the first mentioned lip and passing through the nut and the opposite lip, substantially as and for the purpose specified.

1,421,360. ROTARY PHOTOGRAVURE PRESS. HARVEY V. BIERY, Oklahoma, Okla. Filed Apr. 2, 1919. Serial No. 286,948. 10 Claims. (Cl. 101—378.)



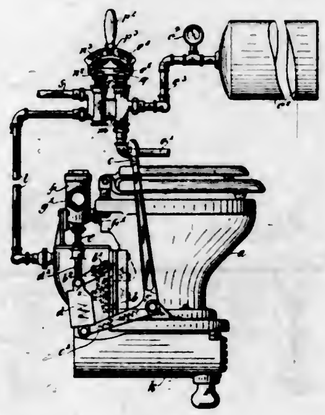
1. In a rotary photogravure press, the combination with a frame, of a mandrel mounted for rotation in the frame and pivoted at one end therein, a printing cylinder removably mounted on the mandrel and adapted to be introduced upon and removed from the free end of the mandrel when swung upon said pivot, means for securing the mandrel at its free end in the frame, and means for retaining the cylinder upon the mandrel.

1,421,361. GUARD FOR BILLIARD-TABLE POCKETS. EDWARD H. ACLAND, Toronto, Ontario, Canada. Filed Aug. 25, 1920. Serial No. 405,898. 2 Claims. (Cl. 46—12.)



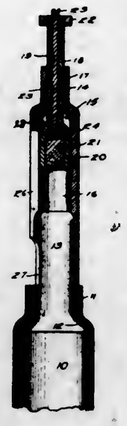
1. In a billiard table, the combination with the table bed having a curved pocket recess and the table cover, the edge of which is drawn into said recess, of a rigid guard curved to fit into said recess to clamp the cover in place and adapted to rest on the bottom of said recess and to extend upwardly substantially to the level of the table top to protect the cover around the edge of the pocket recess from the impact of balls rebounding from the pocket.

1,421,362. MARINE CLOSET. PERCY ALLAN, Montclair, N. J., assignor to A. B. Sands & Son Co., New York, N. Y., a Corporation of New York. Filed Aug. 5, 1919. Serial No. 315,397. 8 Claims. (Cl. 4—17.)



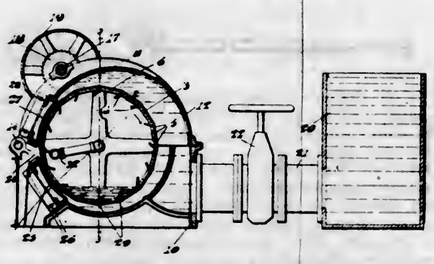
6. In a marine closet, a bowl, a waste tank communicating therewith, means to flush the contents of the bowl into the tank, an air tank in communication with the waste tank, a valve to control the supply of air from the air tank to the waste tank, and an air vent from the waste tank to relieve the pressure therein automatically when the control valve is seated.

1,421,363. BAILER STRUCTURE. FRANCIS B. ALLDREDGE, Des Moines, Iowa. Filed Aug. 10, 1920. Serial No. 402,612. 1 Claim. (Cl. 166—19.)



In a bailer structure, a bailer can, a reduced extended, tubular, swivel socket, having at its upper end a reduced elongated neck, having on its interior a substantially semi-spherical shoulder, said swivel socket, having in its wall, an elongated slot, having a large position at its lower end, a rope lift comprising a tubular member slidably mounted in said neck, a stopping element detachably mounted on the upper end of said tubular member, and an enlarged hollow portion on the lower end of said tubular member, having an exterior shoulder to coact with said first shoulder, and a flexible member mounted in said rope lift.

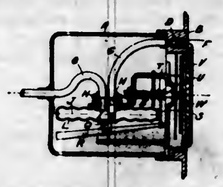
1,421,364. PULP-THICKENING MACHINE. CARLTON H. ALLEN, Millinocket, Me., assignor of one-half to Great Northern Paper Company, Millinocket, Me., a Corporation of Maine. Filed May 28, 1920. Serial No. 384,942. 15 Claims. (Cl. 92—36.)



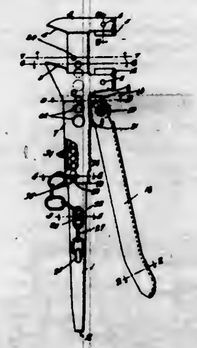
1. A pulp thickening apparatus comprising, in combination, a filtering drum, means for driving said drum, and a reservoir in which said drum may be submerged in pulp, said reservoir having an opening at one side of said drum for the discharge of thickened pulp.

1,421,365. LIQUID-LEVEL GAUGE. IVAN ANDRASSON, East Elmhurst, N. Y. Filed Mar. 13, 1920. Serial No. 365,676. 4 Claims. (Cl. 73—54.)

1. In a gauge, the combination of a diaphragm chamber, an outer support and means to support the diaphragm chamber from the outer support, such means including a liquid inlet tube communicating with the interior of the diaphragm chamber and an air outlet tube also communicating with the interior of the diaphragm chamber at its upper part.

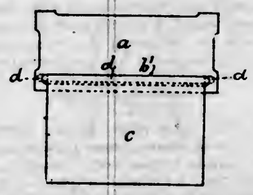


1,421,366. WRENCH. PETER F. ANDERSON, Prentice, Wis., assignor of one-half to Peter S. Lound, Prentice, Wis. Filed Sept. 1, 1921. Serial No. 497,458. 4 Claims. (Cl. 81—86.)



1. A tool of the class described, comprising a shank having a fixed jaw; a rider mounted to reciprocate on the shank and having a rack, the rider including a loop-shaped jaw within which the shank is located; a filler in the jaw of the rider and located between one end of said jaw and the shank; a cutter on the jaw of the rider and cooperating with the fixed jaw; a securing element connecting both the cutter and the filler to the jaw of the rider; and a lever fulcrumed on the shank and engaged with the rack of the rider.

1,421,367. SHOWCARD, CALENDAR, AND THE LIKE. WILLIAM JOSEPH ANDERSON, Hyde, England. Filed May 19, 1919. Serial No. 298,821. 1 Claim. (Cl. 40—128.)



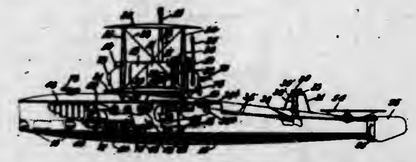
A show device comprising a head piece portion having at slot approximately the length thereof leaving comparatively narrow portions that may be fixed more readily than other portions of said head piece, a perishable apron-like refill portion having an upper edge of a length less than the length of the head piece slot and adapted to be supported entirely and wholly in the same plane as that of said head piece, and a lath secured to the front face of said apron-like portion at the upper end thereof and of a greater length than said apron-like portion so that the lath ends may extend into the slot of said head piece portion and support said apron-like portion.

1,421,368. DIRIGIBLE HEADLIGHT FOR LOCOMOTIVES. GEORGE H. ANTHONY, Sykesville, Pa. Filed Oct. 1, 1921. Serial No. 504,730. 3 Claims. (Cl. 240—62.)



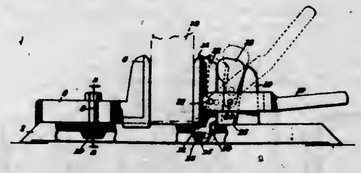
1. A dirigible headlight for locomotives comprising a casing, a reflector pivotally mounted therein for swinging movement on a vertical axis, a supporting frame carried by and extending forwardly within the reflector, and a pendulum supported from the top of the casing and having its weight confined within said frame.

1,421,369. SUBMERSIBLE FLYING BOAT. JOSEPH AADO, Newhall, W. Va., assignor of one-half to Kalman Horvath, Newhall, W. Va. Filed Oct. 28, 1921. Serial No. 511,144. 5 Claims. (Cl. 244—2.)



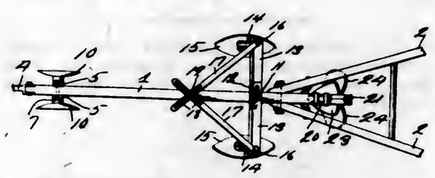
1. In a submersible vessel, a hull, a series of cylinders opening at one end through said hull, pistons in said cylinders, means for locking said pistons in different adjusted positions against inward movement in said cylinders said means permitting free outward movement of the pistons in the cylinders, and other means for moving said pistons outward in said cylinders.

1,421,370. BENCH AND FLOOR CLAMP. THOMAS ASHWORTH, Millersburg, Ohio. Filed Sept. 16, 1921. Serial No. 501,141. 1 Claim. (Cl. 144—303.)



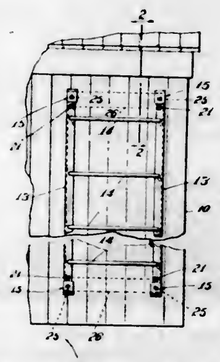
In an adjustable wood working clamp, a bed plate, a main stationary jaw, a pivoted and longitudinally movable supplemental jaw, an operating lever pivoted on said supplemental jaw, a fulcrum post fixed on said bed plate, and a wedge carried by said lever intermediate said supplemental jaw and said fulcrum post, whereby said lever is depressed, the wedge will engage said fulcrum post and said supplemental jaw and cause the latter to be moved toward the main jaw.

1,421,371. DISK PLOW. SIDENEY CICERO ATTAWAY, Thomasville, Ga. Filed Sept. 2, 1921. Serial No. 497,831. 3 Claims. Cl. 55—9.)



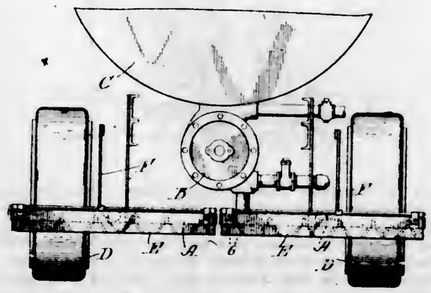
3. A combined vine cutting, row barring and potato digging plow, said plow comprising a beam, spaced vine cutting disks adjacent the forward end of said beam, row barring spaced disks disposed rearwardly of the vine cutting disks and a plowing element disposed rearwardly of the row barring disks.

1,421,372. LADDER CONSTRUCTION. LE ROY H. BADGER, Oak Park, Ill., assignor to De Remer Blatchford Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 6, 1920. Serial No. 422,179. 15 Claims. (Cl. 228—49.)



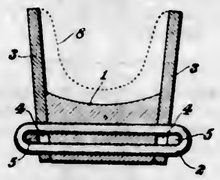
2. A ladder construction for railway cars comprising, in combination, a ladder and ladder supporting means on which the ladder has a slidable anchorage permitting it to be separated therefrom when bent laterally.

1,421,373. LIQUID-DISTRIBUTOR DISCHARGE MECHANISM. FREDERIC E. BAGER, Kenosha, Wis., assignor to Frederick C. Austin, Chicago, Ill. Filed Feb. 17, 1917. Serial No. 149,211. 12 Claims. (Cl. 299—34.)



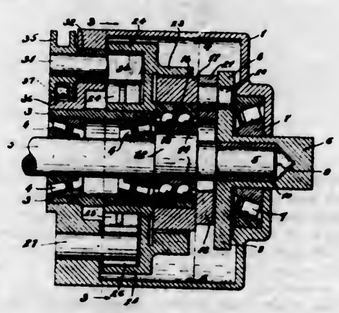
1. A liquid-distributor discharge-mechanism comprising outlet-means to form a jet, a movable deflector disposed in position to receive the discharge from said outlet-means and formed to direct the liquid downward in a flat fan-shaped spray, and valve-means mounted on said deflector and arranged to cooperate with said outlet-means to so control the discharge that the size of the jet may be varied without materially changing its point of impingement on said deflector.

1,421,374. TROUGH. ROBERT A. BAGNELL, St. Louis, Mo. Filed Sept. 11, 1920. Serial No. 409,563. 6 Claims. (Cl. 266—38.)



1. A trough for conducting molten metal, comprising, a base, a pair of detachable side members, and means for connecting said base and said members.

1,421,375. TRANSMISSION. HENRY C. FAINER, East Cleveland, Ohio, assignor to The Baines Engineering Company, Canal Dover, Ohio, a Corporation of Ohio. Filed Feb. 28, 1920. Serial No. 362,060. 3 Claims. (Cl. 74—35.)



1. In a device of the character described, the combination with a casing, of a sleeve projecting inwardly within said casing, a shaft journaled in said sleeve, an external gear eccentrically journaled on said shaft, an internal gear rotatably mounted on said sleeve and disposed in operative relation to said external gear, means adapted to connect said internal gear with said casing to prevent rotation thereof, a second shaft journaled in said casing and means for connecting said second shaft to said external gear whereby power may be transmitted between said shafts.

1,421,376. FUSE. HOWARD H. BAKER, Buffalo, N. Y., assignor to United States Fuse Corporation, Buffalo, N. Y., a Corporation of New York. Filed Apr. 30, 1919. Serial No. 293,705. 6 Claims. (Cl. 200—131.)

1. A fuse emprising a body having two body sections of insulating material which engage each other by a longitudinal joint between the same and which are provided on their opposing central parts with cavities forming a chamber, terminals mounted on the ends of said body and having parts arranged on the exterior and the interior of said body, a fuse link arranged within said chamber and engaging its opposite ends with the inner parts of said terminals, and clips for connecting said link with said terminals, each of said clips being of substantially U form and engaging its legs with the outer sides of one end of said link and the corresponding terminal and that



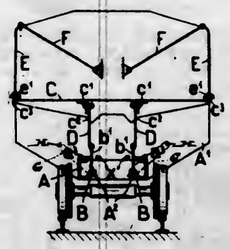
leg which engages with said link being provided with a laterally projecting lug which engages with the adjacent wall of said chamber.

1,421,377. SPLIT LOOSE PULLEY BUSHING. THOMAS F. BARRY, Muscatine, Iowa, assignor to Barry Company, Muscatine, Iowa, a Corporation of Ohio. Filed Jan. 27, 1920. Serial No. 354,451. 8 Claims. (Cl. 64—10.)



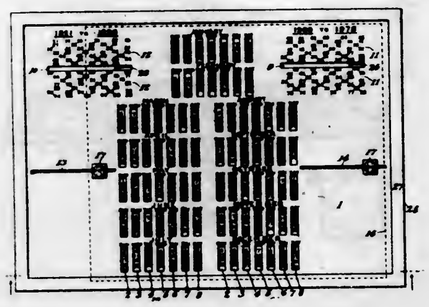
1. A split bushing for pulleys, comprising opposite similar complemental interchangeable sections each having one inner meeting edge smooth and having in its other meeting edge a longitudinal channel to receive a packing; the packing on one section contacting with the smooth meeting edge of the opposed section when the parts are assembled, whereby leakage of the oil between the meeting faces of such sections is prevented by such packings.

1,421,378. SELF-DISCHARGING CAR. KARL BARTH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Jan. 14, 1921. Serial No. 437,325. 2 Claims. (Cl. 105—260.)



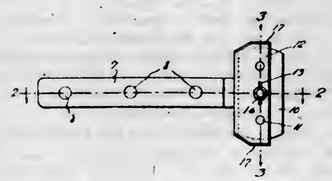
1. A self discharging receptacle comprising a rotatably disposed bottom, a frame structure, said bottom articulated to said frame structure by means of link devices, the elements of which devices when said receptacle is in loaded position are substantially parallel each to each to form a substantially linear support for said bottom, and abutments for said link devices permitting a collapsing action of said link devices only toward the longitudinal center line of said receptacle.

1,421,379. CALENDAR. SAMUEL O. BARTLETT. New York, N. Y. Filed Feb. 11, 1921. Serial No. 444,086. 2 Claims. (Cl. 40—109.)



1. The combination, in a multi-year calendar, of a mat, provided with monthly groups of day-index slots, a group of ear indicating numbers, a year index slot, and guide strips, and a rela ively movable, cooperating number-sheet, provided with guide slots adapted to register with said guide strips, series of day numbers, adapted to register behind the day-index slots, and with a year indicator adap ed to register behind the year-index slot.

1,421,380. SCRAPER. HENRY BAUM, East Cleveland, Ohio. Filed Feb. 13, 1922. Serial No. 536,081. 1 Claim. (Cl. 145—47.)

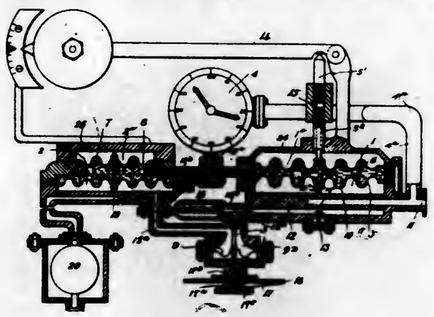


A scraper comprising a handle including a metal plate extending and expanded laterally beyond the front end of the handle and in a plane parallel thereto, the ends of said expanded part of the plate being flanged to form a seat, said seat having projecting spaced lugs, a blade resting on said seat and having holes into which the lugs project, and a cap plate clamped upon the blade and engaged by said lugs and fitting between said flanges.

1,421,381. MEANS FOR REGULATING THE FLOW OF COMPRESSED GASES. ALFRED EDWIN BAWTREE, Sutton, England, assignor of one-half to Arthur Samuel Legg, Thornton Heath, England. Filed Mar. 8, 1918. Serial No. 221,313. 6 Claims. (Cl. 50—11.)

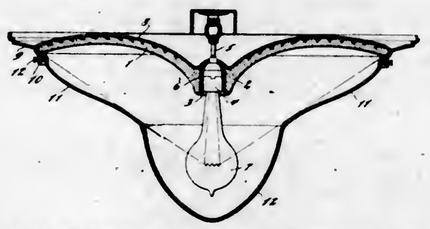
1. Valve mechanism for regula ing the flow of compressed gases, comprising a casing, two pairs of diaphragms within said casing, a continuous system of non-elastic fluid between said diaphragms, means for providing pressure on the upper diaphragm of the first pair of diaphragms, a valve controlled by the under dia-

phragm of the first pair of diaphragms for admitting gas to said under diaphragm, and a valve controlled by the



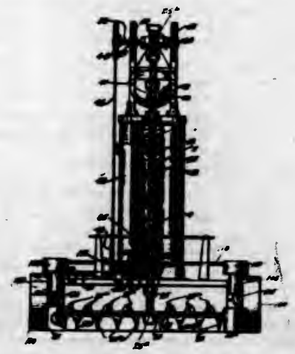
second pair of diaphragms for opening the outlet from the gas chamber beneath the under diaphragm of said second pair of diaphragms.

1,421,382. ELECTRIC-LIGHT FIXTURE. RICHARD M. BEARD, New York, N. Y. Filed Sept. 20, 1919. Serial No. 325,148. 2 Claims. (Cl. 240—92.)



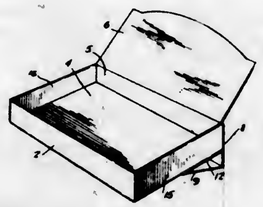
1. In an electric lighting fixture, a relatively broad plaster composition reflector having a depending neck portion, a protecting and reinforcing band carried by the reflector at its periphery, means for supporting the reflector solely at the neck portion, and depending enclosing means supported entirely from the band.

1,421,383. SAND GATHERING AND ELEVATING MACHINE. ELMER O. BEARDSLEY, Chicago, and WALTER F. PIPER, Oak Park, Ill. Original application filed June 22, 1917, Serial No. 176,354. Patent No. 135,641. Divided and this application filed Jan. 30, 1919. Serial No. 274,096. 9 Claims. (Cl. 37—27.)



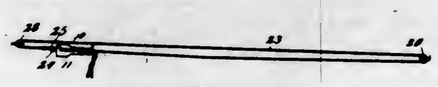
9. In a foundry machine of the class described, the combination of a truck, mans for propiling th truck into a pile of sand, sand-gathering means comprising a conveyor formed of a helical blade provided with a periphery formed to continuously feed the sand transversely, and an elevator for conveying the sand from the screw, and means for rotating the screw and driving elevator, the screw being equipped with blades projecting radially from its periphery so as to break up the sand engaged thereby.

1,421,384. DISPLAY CONTAINER. HENRY B. BEATTY, Brooklyn, and CLARE LE ROY JOHNSON, New York, N. Y., assignors to Laplante & Dunklin Printing Company, New York, N. Y., a Corporation of New York. Filed Apr. 26, 1921. Serial No. 464,573. 5 Claims. (Cl. 206—44.)



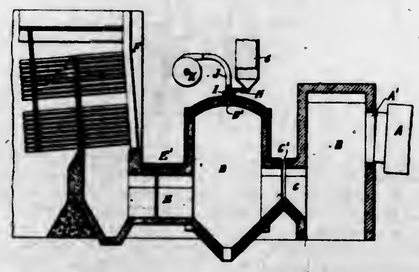
1. A display package consisting of a single foldable blank comprising sides, a bottom portion; an outer front portion, an inner front portion, an inner bottom portion, an inner back portion, and a display tab extending in the order named from the forward side of the bottom portion; an outer back portion, an outer top portion, an outer tab, an inner tab, and an inner top portion extending in the order named from the back of the bottom portion.

1,421,385. ROPE CLAMP. CHARLES BEECKEN, New York, N. Y. Filed Apr. 4, 1921. Serial No. 458,503. 3 Claims. (Cl. 24—132.)



3. A rope clamp including a pair of jaws having grooves on their inner faces, ears upon one jaw embracing the other, a pin entering said ears and jaw to pivot the jaws for relative movement, and slidable means to bind the jaws together.

1,421,386. METHOD OF UTILIZING WASTE-HEAT GASES OF CEMENT KILNS. JOHN E. BELL, Brooklyn, N. Y. Filed Sept. 26, 1919. Serial No. 326,650. 2 Claims. (Cl. 110—28.)



1. In the operation of a plant comprising a cement kiln, a waste heat flue leading therefrom and an element for

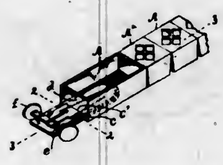
the utilization of the heat of the gases connected to said flue and so operated that the waste heat gases collected in the flue contain a considerable amount of free oxygen, the method of increasing the temperature and heat efficiency of the gases in the waste heat flue and utilising element with small increase in the weight thereof which consists in feeding finely divided fuel into the flue in quantity proportioned to the amount of free oxygen in the waste heat gases contained in the flue and so as to utilize said free oxygen to combine with the fuel and raise the temperature of the whole body of gas.

1,421,387. SELF-SHIFTING TRACK. HANS J. BENTSON, Winthrop Harbor, Ill., assignor to Frederick C. Austin, Chicago, Ill. Filed May 31, 1919. Serial No. 300,820. 11 Claims. (Cl. 180—9.)



1. The combination of a body provided with segmental wheels, tracks resting on the ground to support said wheels, means for causing forward movement of said body, so that the wheels will roll along upon said tracks, said wheels being adapted to shift the load weight alternately from one track to the other, so that the tracks are alternately relieved of weight and thereby released, and instrumentalities dependent upon the forward motion of the body and operated thereby to automatically and alternately pull the tracks directly forward along the ground.

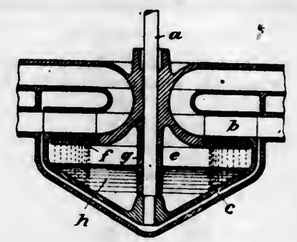
1,421,388. JEWELRY COUPLING. ACHILL BIPPART, East Orange, N. J. Filed July 23, 1921. Serial No. 487,055. 3 Claims. (Cl. 24—230.)



1. A jewelry coupler having a socket member and a catch-member, the socket-member having an opening at one end with shoulder therein, and the catch-member provided with a tongue fitted snugly to the opposite edges of such opening, two latch-bars connected at their inner ends and fastened upon the upper flat side of the tongue, one at least of the latch-bars having a notch to engage the shoulder upon the socket-opening, thumb-pieces for pressing the latch-bars toward one another upon the flat side of the tongue, and the latch-bars operating normally to hold the notch upon the shoulder when the latch-bars are not pressed together.

1,421,389. DEVICE FOR PREVENTING THE PENETRATION OF AIR INTO CENTRIFUGAL PUMPS. BERNHARD BISCHOF, Geneva, Switzerland. Filed May 7, 1921. Serial No. 467,535. 4 Claims. (Cl. 253—194.)

1. In a device for preventing the penetration of air into centrifugal pumps, a centrifugal wheel, a carrier plate for said centrifugal wheel, a stationary disc, a hollow cham-



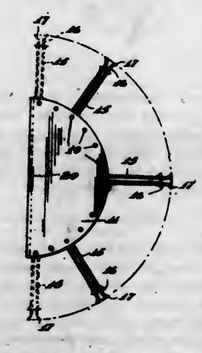
ber formed by said carrier plate and said stationary disc, a sealing liquid arranged in said chamber.

1,421,390. SPEED-INDICATING DEVICE. JOSE VIDAL BOSQUE and PANTALEON GIRO Y CASASAS, Habana, Cuba. Filed Oct. 14, 1921. Serial No. 507,671. 4 Claims. (Cl. 234—31.)



1. A speed indicating device comprising a casing having a glass lid to look therethrough; sealing closing means between the casing and its lid; a heavy member pivotally and eccentrically mounted in the casing and operated by the action of centrifugal force when the casing is caused to gyrate around an exterior point, said heavy member having a resilient connection at one end and at its opposite end a transmission with a shaft arranged gyratorily and centrally through the casing; an arm fixed to said shaft which carries a marking member adapted to impress a permanent mark or signal on a scale graduated for different speeds and means to set at will the heavy element inside the casing and means connecting an element producing an acoustic signal with the heavy member.

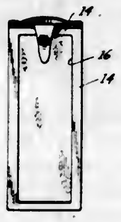
1,421,391. DISPLAY RACK FOR PHONOGRAPH DISKS. CHESTER ALMONDE BOWER, Castor, Canada. Filed Dec. 16, 1921. Serial No. 522,837. 1 Claim. (Cl. 211—16.)



A display rack for phonograph disks or records, comprising a plurality of rods, vertically disposed in semi-circular arrangement, a plurality of racks pivotally mounted on

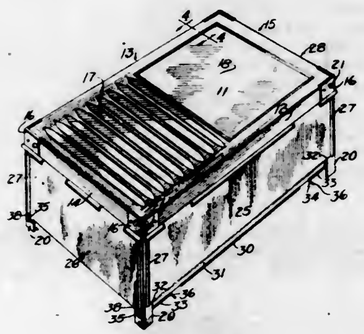
the rods, and each comprising a sleeve mounted on the rods, grooved arms carried by each sleeve, and slanting upwardly, the outer ends of the grooved arms being diverged outwardly, and spacing means between the sleeves.

1,421,392. COMBINATION COMB CASE. FRANK WM. BOWLER, Chicago, Ill. Filed Oct. 31, 1921. Serial No. 511,959. 3 Claims. (Cl. 132—85.)



1. An article of manufacture comprising a mirror, a sheet of material covering the back of said mirror, and a flexible sheet covering said first mentioned sheet, the edges of said mirror and sheet being fastened together by means of a U-shaped framework extending around the edges of said mirror and sheets, and a resilient securing clasp fixed to one end of said article and projecting outwardly and towards the central portion thereof.

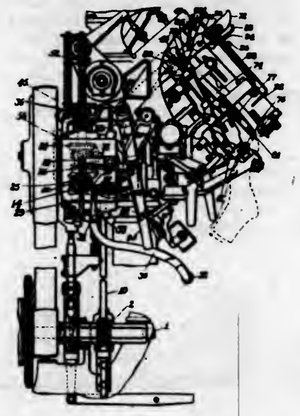
1,421,393. CAMP STOVE. LOUIS M. BOYLE, Los Angeles, Calif. Filed July 2, 1921. Serial No. 482,014. 2 Claims. (Cl. 126—29.)



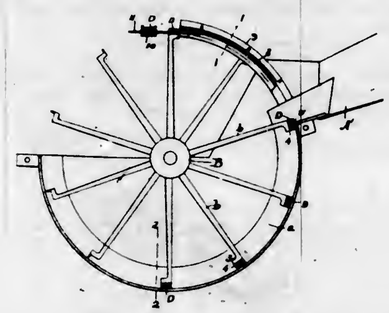
1. A camp stove comprising: a top member; legs foldably attached to said top member; aprons foldably attached to said top member; and latches mounted upon certain of said aprons adapted to engage said legs and other of said aprons adjacent thereto when said legs and said aprons are disposed in open position.

1,421,394. PULLING-OVER MACHINE. ELI BROTHERS, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 18, 1916. Serial No. 126,422. 52 Claims. (Cl. 12—4.)

1. In a machine of the class described, a gripper lever, a gripper connected to said lever by means constructed to permit independent relative movement of the gripper and the lever, means for depressing the gripper to open its jaws and permit insertion of the upper, means for reversely moving a part of the gripper for closing its jaws prior to starting the machine, and manually operative means extending into a position at the outer side of the gripper in proximity to the location of the shoe to enable the operator to cause said jaw closing movement of the gripper.



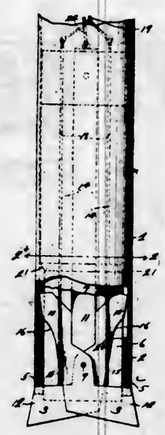
1,421,395. FEED WHEEL FOR SPOOL MACHINES. CHARLES S. BROWN, Bethel, Me. Filed Mar. 9, 1922. Serial No. 542,305. 4 Claims. (Cl. 142—20.)



1. In a feeding device for feeding cylindrical blanks for spool and other like machines, the combination of a hopper for the blanks, a wheel rotating adjacent to said hopper and having radial arms passing through said hopper and terminating in radially open recesses closed in the rear of the arms for receiving the blanks, guides for holding the blanks in said recesses as the wheel turns, a feed spout for the spool machine and means for forcing the blanks laterally from said recesses into said feed spout.

1,421,396. OIL-WELL DRILL BIT. ROBERT J. BROWN, of Merryville, La., assignor of one-half to J. F. Walden, Merryville, La. Filed July 26, 1921. Serial No. 487,648. 2 Claims. (Cl. 255—76.)

1. A well drilling device comprising a casing having diametrically disposed notches in the lower end thereof, a drill bit shank vertically movable in said casing and having its lower end provided with a bifurcation, crossed pivoted bit blades disposed in said bifurcation, said bit blades being provided with outwardly extending arms and upwardly extending arms, a vertically movable locking pin carried by the bit shank and forming means for locking the upwardly extending arms against inward movement and the outwardly extending arms against downward movement,



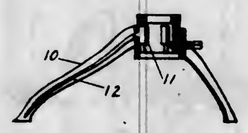
and trip bars vertically movable in the shank and having their lower ends positioned to cooperate with the upwardly extending arms of the bit blades for forcing said bit blades inwardly after the locking pin has been removed.

1,421,397. FOWL CLEANER. WILLIAM A. BRUCK, Pearl River, N. Y. Filed July 1, 1920. Serial No. 393,277. 2 Claims. (Cl. 17—30.)



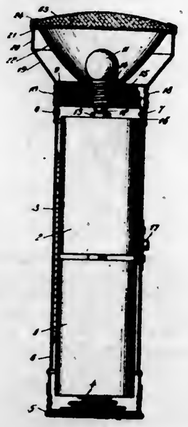
1. A fowl cleaning tool comprising an elongated relatively narrow blade having a plurality of teeth projecting from a longitudinal edge thereof adjacent its forward free transverse end, said transverse end being arranged at a substantially abrupt angle to the longitudinal axis of the blade, and said transverse end being sharpened into a cutting edge.

1,421,398. CHRISTMAS-TREE SUPPORT. CHARLES L. BURCHESS, Lincoln, Nebr., assignor of one-half to H. M. Dirks, Lincoln, Nebr. Filed Dec. 27, 1921. Serial No. 524,935. 3 Claims. (Cl. 248—38.)



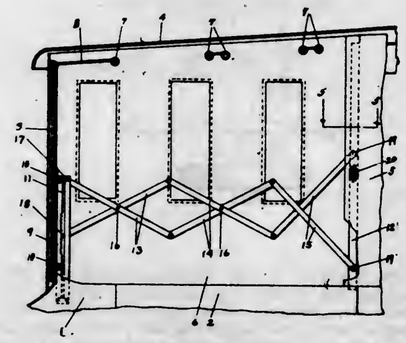
3. A support including a cylindrical collar having a vertical axis, a plurality of legs, said legs being anchored in said collar against movement in all directions but one, and a second collar adapted to be concentrically mounted on said first mentioned collar to prevent sliding of the legs in the remaining direction, said first and second named collars being welded together.

1,421,399. BATTERY HAND LAMP. CHARLES F. BURGESS, Madison, Wis., assignor to Burgess Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed May 14, 1920. Serial No. 381,245. 7 Claims. (Cl. 240—8.5.)



1. In a battery hand lamp, the combination of a casing, a battery of dry cells therein, a lamp connected with one terminal of said battery, a socket in which said lamp is threaded, a yielding disc of insulation supporting said socket, a reflector insulated from said socket and removable therefrom, and means for establishing electrical connection from the other terminal of said battery to said socket.

1,421,400. VEHICLE TOP CURTAIN. FRANK L. BURNS, Three Rivers, Mich. Filed Oct. 2, 1920. Serial No. 414,227. 4 Claims. (Cl. 296—138.)



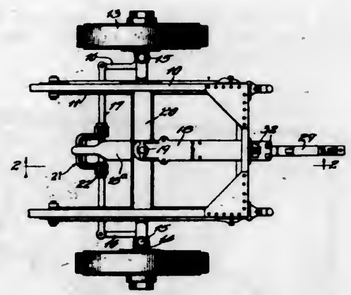
1. In a structure of the class described, the combination of a curtain having grommets at the upper edge thereof, a supporting wire carried by the top disposed through said grommets, a support for said curtain comprising a bracket member having a vertical slot therein, a bar to which the outer edge of the curtain is secured, and pairs of crossed links, one of the inner pair of links being pivoted to said bracket member and the other being slidably engaged in the slot thereof, the outer ends of the outer pair of links being pivoted to said bar, the inner and intermediate pairs of links being pivoted to each other, the outer pair of links being free from each other at their point of crossing and thereby permitting the collapsing of the lazy tong frame with the bar at the outer end thereof in upright position.

1,421,401. AUTO LOCK. BENJIMAN O. BYERS, Cleveland, Ohio, assignor of one-half to William St John, Cleveland, Ohio. Filed Feb. 19, 1920. Serial No. 359,866. 1 Claim. (Cl. 70—129.)



A device of the class described comprising a hinged sleeve adapted to engage the steering column of a vehicle, a yoke pivotally fastened to a free end of said sleeve, a projection formed on the other free end of said sleeve, means associated with said yoke and said projection for drawing said sleeve tightly about said column, an arm pivotally fastened to said sleeve and adapted to engage the steering wheel, to prevent rotation thereof, a shield adapted to cover said tightening means to prevent access thereto and means for locking said shield in position.

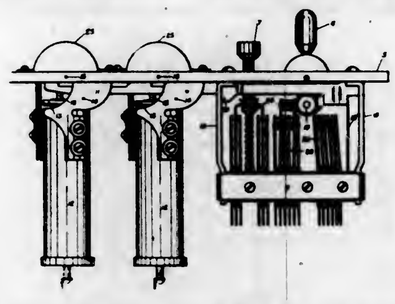
1,421,402. TRAILER TRUCK. ADDI BENJAMIN CADMAN, Beloit, Wis., assignor to Warner Manufacturing Company, South Beloit, Wis., a Corporation of Wisconsin. Filed Aug. 12, 1918. Serial No. 249,388. 4 Claims. (Cl. 280—33.5.)



2. In a vehicle of the character described, a main frame, an axle having steering knuckles pivoted at its opposite ends, carrying wheels mounted on said steering knuckles, springs for supporting said frame upon said axle, a draw-bar pivotally connected to said frame, a transversely extending steering rod pivotally connected to said knuckles, a tubular member mounted on said steering rod to swing forward and back, and a pin having a universal connection with the rear end of said draw-bar and arranged to slide in said tubular member.

1,421,403. SWITCHBOARD SIGNAL. GUSTAF CARLSON, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 22, 1919. Serial No. 319,089. 17 Claims. (Cl. 179—176.)

8. In combination, a key, an electromagnet and an armature adapted to be attracted thereby, a signal arranged to occupy either a displayed or a concealed position, means carried by said armature for normally holding said signal in a concealed position, and a member slidably mounted



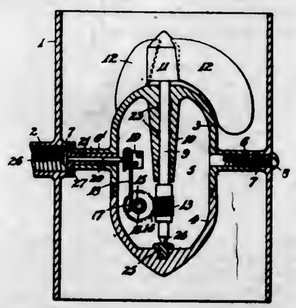
for moving said signal from a displayed to a concealed position, and means for operating said member.

1,421,404. MOTOR FOR TALKING MACHINES. FOREST CHENEY, Chicago, Ill., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 18, 1919. Serial No. 271,776. 15 Claims. (Cl. 185—45.)



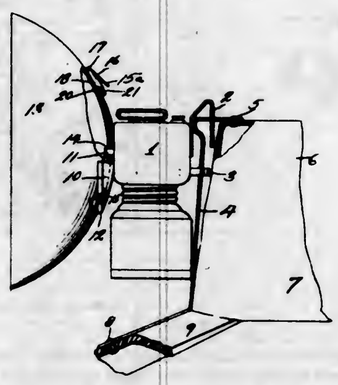
1. In a spring motor, a spring barrel comprising a one-piece straight cylinder, a central support, a pair of springs in said cylinder, means for securing the outer ends of the springs to the cylinder, means for supporting the inner ends of the springs on said support, a one-piece head or end wall for each end of said cylinder, and means interposed between the two springs to divide the interior of said cylinder into two intercommunicating compartments, one for each spring, for housing and lubricating the springs thus separately inclosed, so that each of the two springs is wound and unwound in its own compartment.

1,421,405. SHIP'S LOG. BASIL CHERNIKEEFF, London, England. Filed Dec. 9, 1921. Serial No. 521,212. 4 Claims. (Cl. 73—122.)



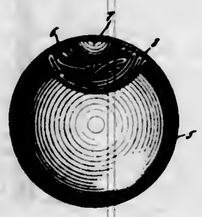
1. Mechanism comprising in combination a shaft, a rotator mounted thereon, a casing enclosing one end of said shaft, radial arms on said casing, a tubular holder supported by said arms concentrically with said shaft, a tubular stem serving to support said holder submerged in water, means for electrically controlling a remote indicating and recording instrument and a lubricant filling for said casing.

1,421,406. LAMP. ALLEN J. CHRISTMAS, Rayville, La. Filed Oct. 19, 1921. Serial No. 508,748. 1 Claim. (Cl. 240—103.)



The combination with a concaved reflector having a burner extending axially therethrough, of a detachable enlarged concaved reflector disposed within the first mentioned reflector, said enlarged reflector being provided with spaced lugs on its rear side adapted to receive the marginal edge of the first mentioned reflector, a slidable lever controlled member carried by the rear side of the enlarged reflector and adapted to engage over the marginal edges of the first mentioned reflector and hold the same in close engagement with the spaced lugs carried by the enlarged reflector.

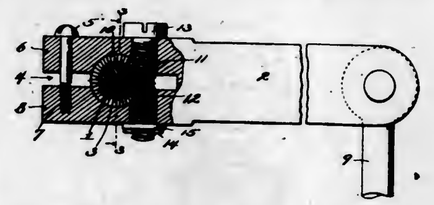
1,421,407. BALL. WARREN H. CLARK, West Burlington, N. Y. Filed July 25, 1921. Serial No. 487,298. 3 Claims. (Cl. 46—4.)



1. A hollow ball formed of resilient material, a semi-spherical member having an opening, and adapted to be positioned over the ball, a flexible member having connection with the ball and carrying a button, and said button adapted to be positioned in the opening of the semi-spherical member.

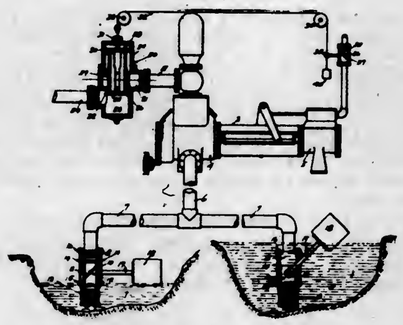
1,421,408. ADJUSTABLE CONNECTION FOR ACTUATING ARMS. LOUIS GREINER COLLYER, Upper Montclair, N. J., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Mar. 27, 1919. Serial No. 285,509. 5 Claims. (Cl. 74—5.)

1. Means for adjusting and locking an arm or crank in different angular relation to a rotatable element, comprising an element provided with an annular series of worm-wheel teeth, an arm or crank having a bore in which said element rotatably fits and carrying a worm which is rotatable but non-shiftable axially therein and



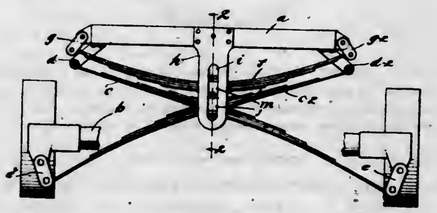
meshes with the worm-wheel teeth on said element and means operative independently of the worm to lock said element and arm in different adjusted relations.

1,421,409. PUMPING APPARATUS. RUDOLPH CONRADER, Erie, Pa. Filed Mar. 15, 1920. Serial No. 365,913. 8 Claims. (Cl. 103—92.)



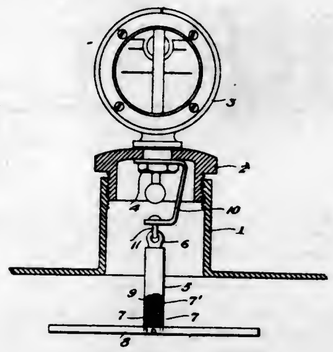
1. The combination of a pump; an inlet pipe leading to the pump; a valve on the inlet; a float controlling the valve; a discharge pipe for the pump; a motor driving the pump; devices controlling the motor; and means controlled by the volume of discharge from the pump for controlling the devices, said devices acting to reduce the energy of the motor as the discharge decreases.

1,421,410. VEHICLE SPRING. FRANK V. COOKE, Detroit, Mich. Filed June 30, 1920. Serial No. 392,940. 10 Claims. (Cl. 267—45.)



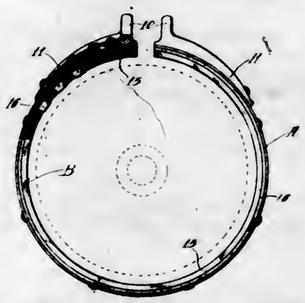
3. The combination of a vehicle body, an axle, a spring pivoted to one side of the body and to the end of the axle furthest therefrom, a spring pivoted to the other side of the body and the opposite end of the axle, a yielding fulcrum support intervening said body and springs, means for restraining movement of said springs laterally yet permitting movement longitudinally, and movement vertically against the resistance of said yielding fulcrum support.

1,421,411. INDICATOR LOCK. LESTER J. CORBITT, Detroit, Mich. Filed Aug. 9, 1920. Serial No. 402,097. 1 Claim. (Cl. 220—24.)



The combination with a radiator and its cap and an attachment carried by the cap, of means for permanently connecting the cap with the radiator while permitting its partial removal therefrom for filling purposes, such means consisting of a stem swiveled to a part on the cap, said stem having a bore in its lower end and a pair of diametrically arranged slots communicating with the bore, a cross rod passing through the slots and pivoted to the lower end of the stem and a spring in the bore engaging the rod for holding the same at right angles to the stem.

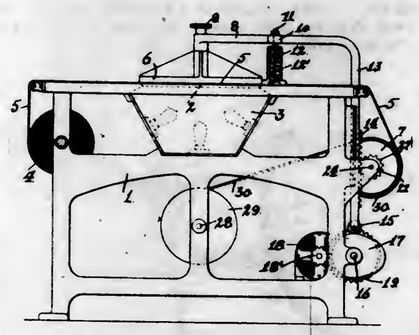
1,421,412. FRICTION LINING. HARVEY CORY and ORRIN D. GRAY, Chicago, Ill. Filed Apr. 20, 1920. Serial No. 375,289. 8 Claims. Cl. 188—259.)



5. A duplex friction lining of the kind described having, in combination, a facing of wearing material and a backing of compressible absorptive material, the two materials being united, substantially as described.

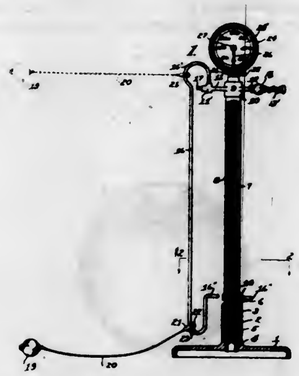
1,421,413. PHOTOGRAPHIC-PRINTING MACHINE. MALCOLM L. COSSITT, Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev., a Corporation of Nevada. Filed July 21, 1921. Serial No. 486,644. 2 Claims. (Cl. 95—75.)

1. A photographic printing machine comprising a table having an exposure opening, means associated with the table for carrying a roll of sensitized paper, means for drawing the paper from the roll over the exposure opening, a light box associated with said opening; a reciprocative contact pad adapted to press the paper upon a negative lying in the exposure opening and to withdraw therefrom; a driving means; and connections operated by said driving means for alternately simutaneously withdrawing the contact pad and advancing the paper, and simultaneously arresting the paper and returning the pad, said connections comprising a reciprocative bracket



carrying the contact pad, rack members associated with said bracket, pinions engaged by the rack members, cams operating on said rack members to lift the bracket; springs to return said bracket, and clutch members for intermittently transmitting motion to the paper drawing means.

1,421,414. CAPTIVE-BALL PRACTICE DEVICE. CHARLES FREDERICK CRAIG, San Francisco, Calif., assignor to Craig Golfmeter Co., Wilmington, Del., a Corporation of Delaware. Filed July 19, 1921. Serial No. 485,806. 8 Claims. (Cl. 205—22.)

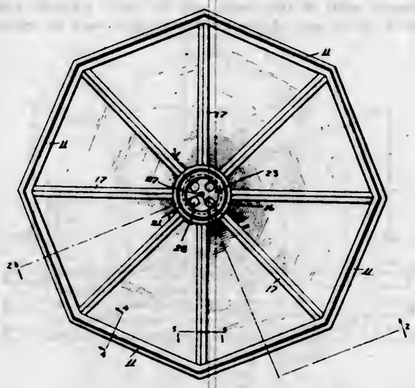


1. A device of the class described, comprising a fixed standard; a sleeve adapted to revolve about said standard; a register member carried by the top of the standard above the sleeve; a rotatable shaft carried by the register member; a gear on top of the sleeve; a gear on the lower end of the shaft engaging with the sleeve gear; and means for operating the register-member from the upper end of said shaft.

1,421,415. LAMP SHADE. JOSEPH M. CAUCET, New York, N. Y. Filed Nov. 19, 1921. Serial No. 516,316. 4 Claims. (Cl. 240—108.)

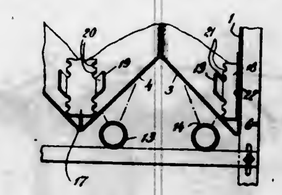
1. A lamp shade comprising a continuous outer rim; a center ring, said ring having a series of bottom opening

recesses; a plurality of radial ribs structurally connected with said rim, the inner ends of said ribs being disposed
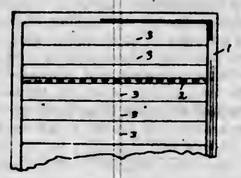


in the recesses in said ring; and a housing member permanently attached to said ring to cover the inner and lower surfaces thereof.

1,421,416. PROCESS AND APPARATUS FOR MELTING SULPHUR. HAROLD S. DAVIS and RAYMOND F. BACON, Pittsburgh, Pa., assignors to Texas Gulf Sulfur Company, Bay City, Tex., a Corporation of Texas. Filed Aug. 13, 1921. Serial No. 491,914. 9 Claims. (Cl. 23—1.)



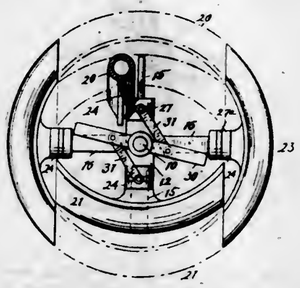
1. The process of melting sulphur, which comprises providing a surface heated to the melting temperature of the sulphur, progressively feeding the solid sulphur against said surface in such manner that only that portion of the sulphur at the said surface is heated to the melting point of the sulphur, and removing the melted sulphur as it forms.

1,421,417. PERFORATOR FOR PRINTING PRESSES. DANIEL J. DEEGAN, Youngstown, Ohio. Filed July 13, 1921. Serial No. 484,491. 2 Claims. (Cl. 164—98.)



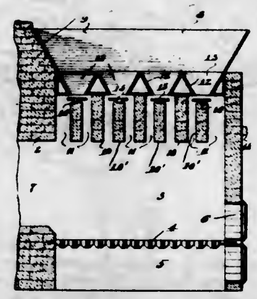
1. In a device of the class described, a serrated perforating blade slightly shorter in height than ordinary type, a steel strip secured to tympan sheets by means of arrow points at each end, there being a plurality of brads formed on the sides of said improved steel strips, and a vertical side to said brads, substantially as described for the purpose set forth.

1,421,418. COLLAPSIBLE TIRE CORE. HAROLD A. DENMIRE, Akron, Ohio, assignor of one-half to The General Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 9, 1920. Serial No. 429,340. 3 Claims. (Cl. 154—9.)



1. A collapsible core made up of a plurality of arc-shaped sections which when circumferentially aligned form a complete annulus, two of said sections being diametrically opposed key sections which are capable of being moved radially into and away from the positions in which they are circumferentially aligned with the other core sections, guides upon which said key sections are movable, means for moving said key sections along said guides, said construction being characterized by that the two key sections are capable of being turned about the radial axis along which they move toward and from said shaft.

1,421,419. MECHANICAL STOKER. JOHN J. DERSOM, Columbus, Ohio. Filed May 15, 1920. Serial No. 381,714. 5 Claims. (Cl. 110—118.)

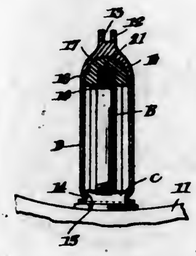


1. A stoker comprising a fuel receiving hopper arranged above the fire box of a furnace, a plurality of spaced stationary walls disposed between the lower end of said hopper and said fire box, said walls defining between them a plurality of fuel passageways arranged over the fire box, outlets provided in the bottom of said hopper and communicating with said passageways, and a plurality of movable agitator members positioned beneath said outlets and operating to effect the passage of the fuel from said outlets into alternate passageways.

1,421,420. PRESSURE-RETAINING DUST CAP FOR PNEUMATIC-TIRE VALVES. THEODORE JOSEPH DERY, Windsor, Ontario, Canada. Filed Apr. 25, 1921. Serial No. 464,273. 3 Claims. (Cl. 152—12.)

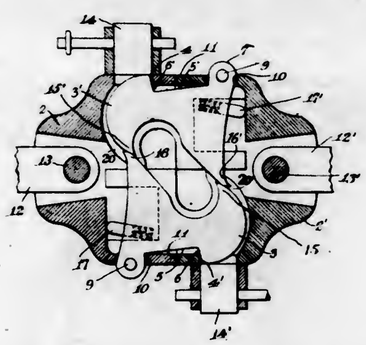
1. A device of the character described comprising a pneumatic air valve having a screw threaded outlet tube and a retaining nut, a dust cap of tubular form adapted to engage the retaining nut, an air retaining member

engaging the sides of the cap on the inner side and adapted to fit the outer end of the cap being reciprocal within the said cap and formed with a socket adapted to fit over the end of the said tube and seal the same, the



said retaining member having free sliding movement both with respect to the cap and with respect to the tube whereby it may freely slide over the screw threading on the tube.

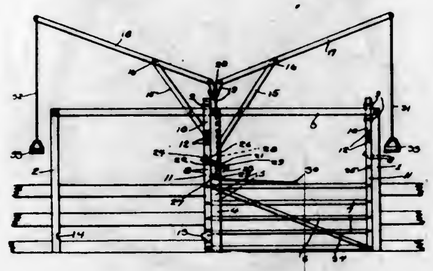
1,421,421. CAR-COUPLING KNUCKLE. ONESIME HERBERT DI LE COMPTE, Oklahoma, Okla., assignor to Universal Car and Hose Coupler Company, Oklahoma, Okla., a Corporation of Arizona. Filed Dec. 16, 1919. Serial No. 345,315. 1 Claim. (Cl. 213—17.)



In a car coupler, a hollow coupling head having an open front, a coupling knuckle pivoted to the head at one side of the longitudinal axis thereof and projecting forward so as to protrude from within said head, said knuckle having on the outer side of the protruding portion a shoulder adapted to engage an abutment on a companion coupling head, the engaging surface of said shoulder being disposed at such an angle to the longitudinal axis of the coupler, when said surface is in position to engage the said abutment of a companion coupler, that further outward movement of the knuckle causes said surface to exert a camming action upon the abutment tending to take up wear and lost motion.

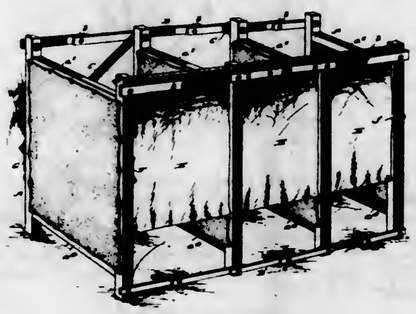
1,421,422. GATE. THOMAS J. DRAKE, Sadieville, Ky. Filed June 11, 1921. Serial No. 476,784. 2 Claims. (Cl. 39—45.)

1. In a gate construction, fence posts, a central gate post, a guide track supported upon the gate and fence posts, a gate mounted upon the track for sliding movement for closing and opening the gate opening and provided with keeper pins, one at each end, a latch pivotally mounted on the gate post and provided with latching lugs to engage either one of the keeper pins, said latch having an opening, a pair of oscillatory levers mounted for movement on the gate post, means connecting the adjacent ends of the levers and the gate, whereby upon tilting either one of the levers the gate may be opened



or closed, said connecting means passing through the opening of the latch, which is so disposed to cause a bend in the cable, so that the latch may be tilted to disengage either one of its latching lugs from the keeper pins prior to the opening or closing movement of the gate.

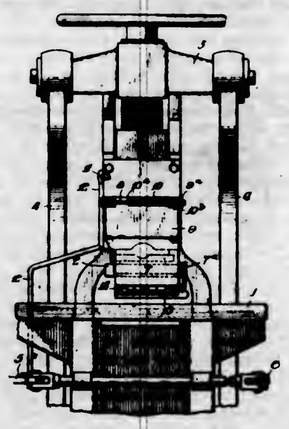
1,421,423. VOTING BOOTH. ISAAC SAMUEL DRAPER, Sullivan, Ind. Filed Jan. 28, 1918. Serial No. 214,165. 4 Claims. (Cl. 20—3.)



1. A voting booth, including a series of substantially rigid end and intermediate frames arranged face to face, foldable two-part braces connecting adjacent frames at the tops and bottoms of said frames and pivoted thereto at their front and rear edges, and in such positions that when the booth is collapsed said braces will substantially coincide with two of the abutting frames, and pivoted diagonally arranged braces detachable at their ends and extending each from one frame to another frame.

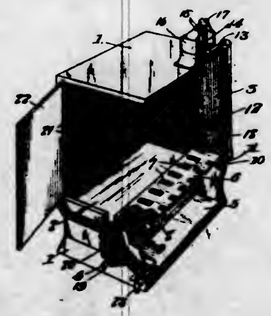
1,421,424. FINGER GUARD FOR PRINTING PRESSES. GEORGE H. DUFOUR, Oak Park, Ill., assignor to Marshall Field & Company, Chicago, Ill., a Corporation of Illinois. Filed June 24, 1920. Serial No. 391,314. 8 Claims. (Cl. 74—105.)

1. In a printing press, a finger guard adapted to normally assume a position to bar access to the space between the impression members of the press, but movable to a position remote therefrom, a detent for holding the guard



in its last-named position, and means for controlling the press which also controls said detent.

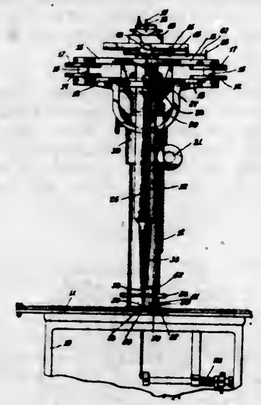
1,421,425. STEAM COOKER. WAYNE A. DUNCAN, Chicago, Ill. Filed May 23, 1921. Serial No. 471,692. 3 Claims. (Cl. 126—20.)



1. In a cooker comprising an oven chamber, the combination with a steam generating compartment, perforations in the top of said compartment for admitting the steam to the oven, a perforated plate for opening and closing the perforations in the top of said steam generating compartment, said perforated plate also provided with means for permitting the exhaust of the steam upon the closing of the perforations in the top of the steam compartment.

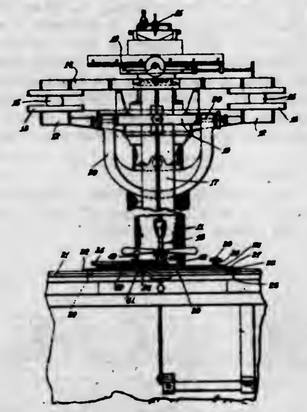
1,421,426. ETCHING OR LIKE MACHINE. WILLIAM S. EATON, Sag Harbor, N. Y. Filed Dec. 13, 1921. Serial No. 522,019. 6 Claims. (Cl. 33—32.)

1. An etching or like machine embodying therein the combination with a pattern table, a work support including therein a work table, supporting means therefor having laterally extending parallel slideways upon which said work table is mounted, and means for imparting continuous movement to said table along said slideways, a work point supporting carriage capable of universal movement upon a single plane, a work point carrying arm mounted upon said carriage and capable of movement toward and from said work table, means whereby the movement of said work supporting arm may be controlled to engage the work point with, or disengage it from, a work plate, a transmitter arm, a universal connection between said transmitter arm and said carriage, and a tracing stylus



carried by said transmitter arm, of a member adapted to engage said stylus and hold said transmitter arm and said carriage immobile, and means whereby a step by step movement of said last named member longitudinally of the machine may be effected.

1,421,427. ETCHING OR LIKE MACHINE. WILLIAM S. EATON, Sag Harbor, N. Y. Filed July 1, 1921. Serial No. 481,923. 16 Claims. (Cl. 33—24.)

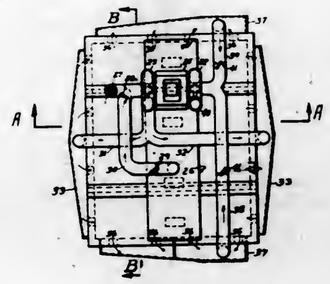


1. An etching or like machine embodying therein a work plate support, a carrier for a work point or tool, said support and said carrier being capable of relative universal movement upon a single plane, a transmitter arm adapted to cause such relative movement, a tracing stylus carried thereby, a pattern table, a base secured thereto, a circular pattern plate rotatably mounted on said base in operative relation to said stylus and having depressed letters, digits or other characters circularly arranged thereon about a common center, and a layout sheet carried by said base and projecting beyond the edge of said plate, whereby succeeding movements of said rotary plate necessary to secure the completed design, may be indicated.

1,421,428. FIRE-EXTINGUISHING SOLUTION. LUIS E. ECKELMANN, New York, N. Y., assignor to Pyrene Manufacturing Company, a Corporation of Delaware. Filed Oct. 23, 1919. Serial No. 332,802. 27 Claims. (Cl. 23—5.)

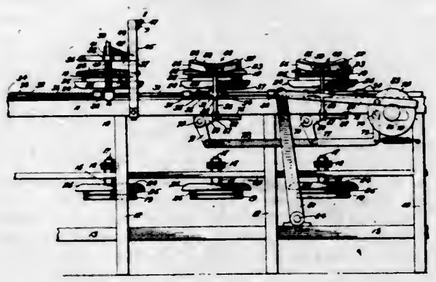
27. A fire extinguishing agent containing a mixture of a plurality of different polychlorinated hydrocarbons and ingredients adapted to produce a tenacious foam.

1,421,429. AIR-CIRCULATING SYSTEM FOR INDUSTRIAL OVENS. WILLIAM C. EHMKA, Detroit, Mich., assignor to Detroit Sheet Metal Works, Detroit, Mich., a Partnership Firm. Original application filed June 14, 1920, Serial No. 388,974. Divided and this application filed Jan. 3, 1921. Serial No. 434,777. 4 Claims. (Cl. 34—19.)



4. An oven in combination with an air heating apparatus, a circulating system, a circulating fan, an exhaust fan, means for operating same, upper and lower exhaust chambers, an intake pipe connecting the circulating fan with the upper exhaust chamber of the oven, a separate air intake breather also connected with the circulating fan intake, means for regulating the proportions of hot air from the exhaust chamber to the fresh air from the intake breather as it enters the fan, and means for distributing same through the oven, and means for exhausting the air from the oven through the exhaust fan.

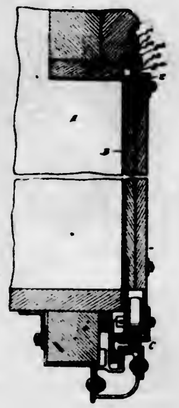
1,421,430. PIE-MAKING MACHINE. FROM C. EILERSEN, Jersey City, N. J. Filed Oct. 27, 1921. Serial No. 510,841. 12 Claims. (Cl. 107—1.)



1. In a machine for treating the crust-dough of pies at the rim thereof, a support for a pie-tin, a conveyer for carrying said support along a fixed path, segmental trimmers at opposite sides of the path of the pie-tin having concave surfaces adapted to the edge of the pie-tin, means for closing said trimmers toward each other and against the pie-tin for squeezing overhanging dough therefrom and means for effecting the travel of said trimmers for a limited distance with the pie-tin while in operative engagement therewith.

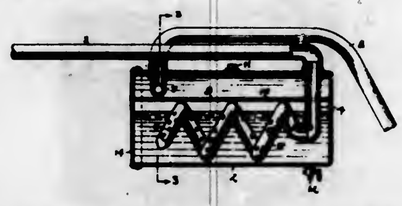
6. In a machine for treating the crust-dough of pies at the rim thereof, a support for a pie-tin, a conveyer for carrying said support along a fixed path, a pressing-ring normally located above the path of the pie, means for pressing said ring downwardly against the pie at the rim thereof, means for effecting the travel of said ring for a limited distance with the pie while in engagement therewith, segmental trimmers in advance of said ring and at opposite sides of the path of the pie-tin having concave surfaces adapted to the edge of the pie-tin, means for closing said trimmers toward each other and against the pie-tin for squeezing overhanging dough from opposite edges thereof, means for effecting the travel of said trimmers for a limited distance with the pie-tin while in operative engagement therewith, means for thereafter turning said support and pie-tin a part of a rotation during the continued travel of the same to present the untrimmed portions of the crust-dough outwardly, a second pair of segmental trimmers having concave facing surfaces to engage the edge of the pie-tin and disposed at opposite sides of the path of travel thereof and in advance of the first trimmers, means for closing said second trimmers toward each other and against the pie-tin for squeezing overhanging dough therefrom, and means for effecting the travel of said second trimmers for a limited distance with the pie-tin while in operative engagement therewith.

1,421,431. CAR-DOOR TOP GUIDE. PERCY M. ELLIOTT, Chicago, Ill. Filed May 3, 1919. Serial No. 294,496. 1 Claim. (Cl. 20—22.)



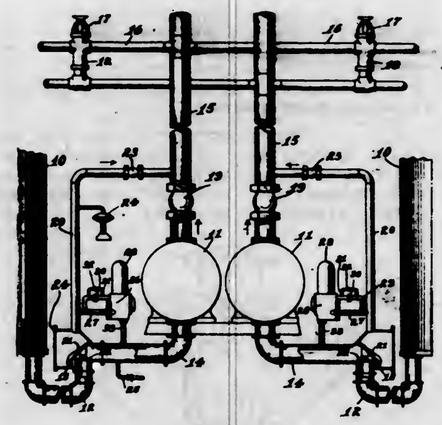
In combination with a car and its sliding door, means normally affording traversing support for the door upon the car, and a guide and emergency support for said door comprising a guide rail and a curb bar; said guide rail comprising a verticlaly extending attaching base and symmetrically depending guide walls providing between them, and substantially within inner and outer vertical planes of the door, a guideway with a downwardly presented restricted throat; and said curb bar comprising an attaching base, a vertically extending shank offset horizontally from the attaching base to bring it within the vertical plane of the restricted throat, and an integral head carried by said shank within the guide-way.

1,421,432. COMBINED MUFFLER AND DEODORIZER FOR EXPLOSIVE ENGINES. FRED EMBANKS, Cleveland, Ohio, assignor to Anastasya Koszyczarek, Cleveland, Ohio. Filed June 16, 1921, Serial No. 478,072. Renewed May 10, 1922. Serial No. 559,924. 3 Claims. (Cl. 183—15.)



1. A combined muffler and deodorizer for explosive engines, having inlet and outlet pipes at opposite ends and extending in opposite directions and crossing to prevent the escape of a liquid in tilting movement of said cylinder and to permit a free discharge of exhaust gases, and said inlet pipe having an outlet extension in the lower portion of the cylinder.

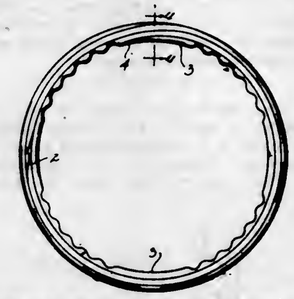
1,421,433. FIRE-EXTINGUISHING SYSTEM. FRANK A. EPPS, New York, N. Y., assignor to Foamite Firefoam Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 1, 1919. Serial No. 327,759. 21 Claims. (Cl. 169—13.)



3. In a fire extinguishing system, in combination, a source of supply for the extinguishing medium, means for conducting the medium to a distributing point, means connected to the source of supply and to the conducting means for forcing the medium from the source of supply through the conducting means, compressed air filling said conducting means, means for preventing the flow of the compressed air into the forcing means, and means for preventing the flow of the medium into the forcing means released by a reduction in pressure of the compressed air to permit the flow of the medium from the source to the forcing means.

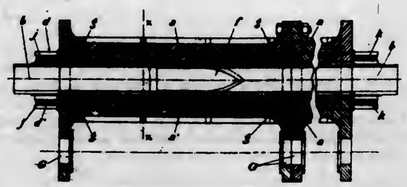
1,421,434. RIM FOR STEERING WHEELS. JULIUS ERICKSON, Chicago, Ill., assignor to Julian B. La Pierre, Chicago, Ill. Filed Feb. 26, 1921. Serial No. 448,002. 2 Claims. (Cl. 74—33.)

1. A wheel rim comprising a laminated structure formed of a plurality of flat strips of fibrous material disposed end to end and arranged in a spiral, the opposed ends of said strips having interlocking engagement, and



the laminations being disposed one within another and glued together.

1,421,435. ELECTRIC APPARATUS FOR PROPELLING PROJECTILES. ANDRÉ LOUIS OCTAVE FAUCHON-VILLEPLEE, Paris, France. Filed Apr. 1, 1919. Serial No. 286,798. 5 Claims. (Cl. 172—285.)

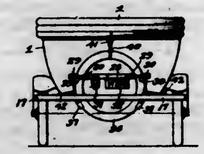


1. An electric gun comprising in combination a winding adapted to create a field of electric force extending over the whole length of the gun, and two diametrically opposed rails adapted to supply the projectile with an electric current and guide the same in a direction at right angles to the field of force, the rails having guiding surfaces which are so curved that a projectile having a circular cross section may be received therebetween.

1,421,436. FIRE-EXTINGUISHING AGENT. GEORGE E. FERGUSON and LUIS E. ECKELMANN, New York, N. Y., assignors to Pyrene Manufacturing Company, a Corporation of Delaware. Filed Oct. 23, 1919. Serial No. 332,810. 19 Claims. (Cl. 23—5.)

19. A fire extinguishing agent comprising a solution of sodium bicarbonate and sodium carbonate and a solution of aluminum sulphate and ferric chloride, said solutions when mixed forming a foam and a precipitate of aluminum hydroxide and ferric hydroxide, said combined precipitate forming a better medium for holding the bubbles of foam than the aluminum hydroxide alone, said sodium carbonate serving to neutralize the ferric chloride.

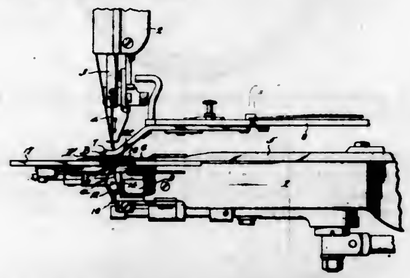
1,421,437. AUTOMOBILE GUARD. VENERANDO FERNANDEZ, Habana, Cuba. Filed Nov. 29, 1919. Serial No. 341,449. 1 Claim. (Cl. 293—55.)



A rear automobile guard comprising a pair of extension arms, means to secure the front ends of the same to the

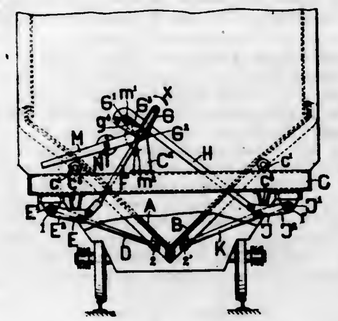
rear portions of the side bars of a chassis, a cross bar connecting the rear ends of the extension arms, standards on the extension arms at points spaced from their rear ends, a transverse bar connecting the upper ends of the standards and provided with tire securing means, and tire supporting stirrups attached to the said extension arms and arranged therebetween.

1,421,438. STITCH-FORMING MECHANISM FOR CHAIN-STITCH SEWING MACHINES. ALBERT F. FIFIELD, Newark, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Sept. 2, 1920. Serial No. 407,622. 12 Claims. (Cl. 112—201.)



1. In a sewing machine, in combination, a reciprocating needle, a rotary looper having a loop-seizing beak and a loop-spreading wing, means adapted to position the loop at one side of the needle-path, and means on the looper to temporarily detain a limb of the loop after it has been passed around the outer end of the looper.

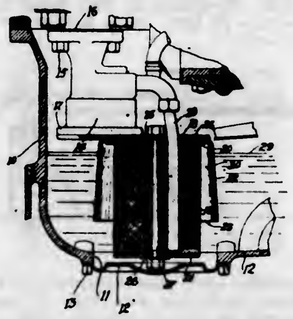
1,421,439. OPERATING MECHANISM FOR THE DOORS OF SELF-DISCHARGING RECEPTACLES. FRITZ FINCKH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed June 2, 1921. Serial No. 474,532. 5 Claims. (Cl. 105—250.)



1. In combination with a door member, a plural system of interconnected dead center locks the one dead center lock actuated by another of the dead center locks above referred to, the one dead center lock reaching a substantially dead center position before its actuating dead center lock.

1,421,440. SUCTION INTAKE FOR PUMPS. JAMES B. FISHER, Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Jan. 14, 1920. Serial No. 351,304. 8 Claims. (Cl. 184—6.)

5. In an intake, a cylindrical screen, and a cup-shaped shield over the upper end of said screen, said shield terminating above the lower end of said screen to expose the entire lower end of said screen directly to the liquid surrounding the intake, and sealing said intake from air as long as the liquid level is above its lower end.

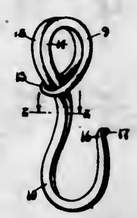


1,421,441. SHIM. FRANCIS J. FLINN, Brooklyn, N. Y. Filed Jan. 29, 1920. Serial No. 354,923. 3 Claims. (Cl. 64—10.)



1. A shim comprising a blank of metal folded upon itself to provide a plurality of leaves.

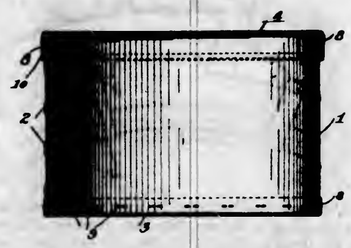
1,421,442. TACKLE HOOK. JOHN H. FLYNN, Jr., Cincinnati, Ohio, assignor to The Eureka Tackle Block Company, Cincinnati, Ohio. Filed May 1, 1920. Serial No. 378,152. 2 Claims. (Cl. 24—230.5.)



1. A hook consisting of a length of material bent centrally of its length to form a loop and having the ends beyond the loop brought together to form a hook.

1,421,443. HAT BOX. ABRAHAM FOGEL, Montreal, Quebec, Canada. Filed Dec. 26, 1918. Serial No. 268,314. 1 Claim. (Cl. 229—45.)

As a new article of manufacture a paper box comprising a body portion consisting of a sheet of material having its opposite ends connected together, a top and bottom, each consisting of a single disk of material placed to form a disk body portion and a depending marginal flange integral therewith and of a single thickness, the flange of the bottom of the box being rigidly connected to the body portion thereof, and a reinforcing strip secured to and covering substantially the entire outer surface of the single flange of the top of the box and inturned and folded around the lower edge of the said flange of the top and extended upwardly on the inner face of such flange at the lower portion of the same, the inturned or folded portion of the reinforcing strip providing an engaging or gripping portion and being spaced from the upper edge of the body of the box when the top is placed on the same to permit the body of the box to expand above the gripping or engaging portion of the reinforcing strip to retain the top of the box on the body portion.

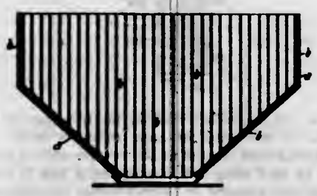


1,421,444. RAILWAY SWITCH. THOMAS COSON FOLSOM, Tampa, Fla. Filed Jan. 19, 1922. Serial No. 530,285. 4 Claims. (Cl. 246—320.)



2. A switch including a supporting base having an integral rail portion one end of which connects with one rail section and the other end of which connects with a second rail section, an elongated detachable switch tongue rigidly secured at one end to said supporting base in alignment with a third rail section and being tapered so that its other end merges into alignment with said second rail section, said tongue being adapted to be sprung out of alignment with said second rail section.

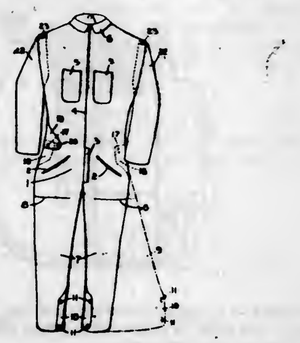
1,421,445. COKE-QUENCHING RECEPTACLE. ARWED FRÄNKEL, Berlin, Germany. Filed Nov. 3, 1920. Serial No. 421,587. 4 Claims. (Cl. 202—11.)



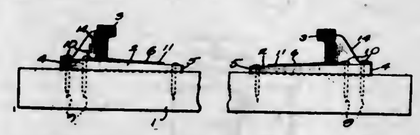
1. A coke quenching receptacle, comprising an outer solid receptacle and an inner perforated receptacle, comprising bars preventing the glowing coke from touching the walls of the outer receptacle and adapted to be fastened to the inside of the wall of said outer receptacle.

1,421,446. GARMENT. DUDLEY FREEMAN, Roxbury, Mass. Filed July 23, 1921. Serial No. 486,950. 7 Claims. (Cl. 2—144.)

1. A garment comprising an obverse trunk section, depending leg flaps connected to the obverse trunk section to cover the obverse portions of the legs, a reverse flap connected to the inner edges of the leg flaps to cover the reverse portion of the trunk, separable fastening means for securing the upper outer corners of the obverse trunk section and reverse flap together, a side extension connected to the outer edge of each leg flap, the said extensions acting, when wrapped around the legs to cover with the reverse flap the reverse portions of the legs, and separable fastening means for securing the lower outer corner of each extension in position.

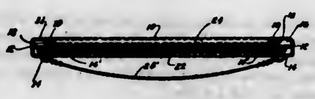


1,421,447. SWITCH PLATE. ANTONIO FRINSI, Easton, Pa. Filed Sept. 19, 1921. Serial No. 501,790. 1 Claim. (Cl. 246—453.)



A switch plate adapted to be arranged on the top of a tie to receive a rail, said switch plate being of greater thickness at one end than at the other, and being provided with openings adjacent each end for the reception of suitable securing means, said plate being further provided with a plurality of openings disposed adjacent the portion of the switch plate at which the side of a rail will be positioned, an upwardly projecting portion spaced from said openings adapted to engage the opposite side of the rail, and ribs arranged on the bottom of said plate and extending diagonally thereof.

1,421,448. PICTURE FRAME. LEWIS FRITZ, Chicago, Ill. Filed Nov. 30, 1921. Serial No. 518,784. 8 Claims. (Cl. 40—154.)

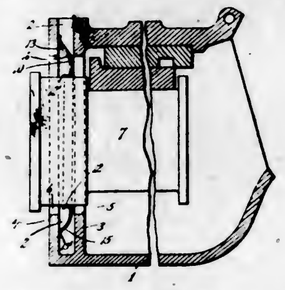


2. An article of the class described comprising a frame, there being lateral flanges on said frame and bent inwardly thereupon forming channels; a back removably positioned in said channels; an upwardly turned lip formed on said back to facilitate removing said back from said channels; and a shoulder traversing said frame at the entrance thereof for releasably holding said back against removal from said frame.

1,421,449. DUST GUARD. HARRY C. GAMAGE, New York, N. Y., assignor to D. P. Company, a Corporation of New Jersey. Filed Jan. 4, 1916. Serial No. 70,093. 9 Claims. (Cl. 64—22.)

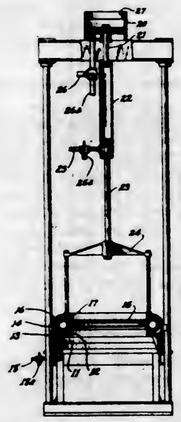
1. A dust guard for car axle boxes consisting of a single resilient plate provided with an opening for the car axle

and having integral flanges at its upper and lower edges, the flange at its upper edge being straight and its lower



edge being of semi-circular outline and bent away from the body of the plate to constitute a flange extending around said semi-circular lower edge.

1,421,450. METHOD AND APPARATUS FOR MANIPULATING FLEXIBLE ARTICLES. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 484,328, filed July 13, 1921. This application filed Jan. 16, 1922. Serial No. 529,500. 28 Claims. (Cl. 18—2.)



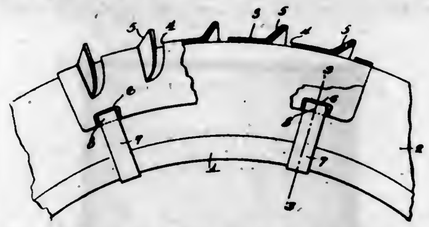
1. The method of spreading a hollow article which comprises holding one side of the article, holding the opposite side by means of a vacuum, and relatively separating the two holding means, while the vacuum is applied, to separate the sides of said article.

1,421,451. BELT. ANGELO F. GARBERDING, Goodland, Minn. Filed Mar. 21, 1921. Serial No. 454,085. 4 Claims. (Cl. 224—5.)



3. A combination cartridge and money belt formed of three strips of material, one strip of material forming the body and provided with slits, another strip trained through the slits to form cartridge receiving compartments, and the remaining strip attached to the body to reinforce the same and provide pockets for receiving money and the like.

1,421,452. MUD HOOK. CARL NAPOLION GEROSA, Augusta, Ga. Filed Sept. 28, 1920. Serial No. 413,287. 1 Claim. (Cl. 152—14.)



In a mud hook, the combination with an automobile tire mounted on a rim, a channel like body member adapted to embrace the tread portion of the tire, the said body portion being provided with a plurality of transverse slits extending the width of the tire, the material embracing the slits being bent upwardly to form angularly disposed cleats, said cleats being curved transversely to conform with the curvature of the tire, and means to secure said body plate around the rim of the tire.

1,421,453. COIN-CONTROLLED VENDING MACHINE. HARVEY GILES, Brooklyn, N. Y., assignor to Artemas Ward, New York, N. Y. Filed Sept. 18, 1920. Serial No. 411,233. 2 Claims. (Cl. 194—87.)

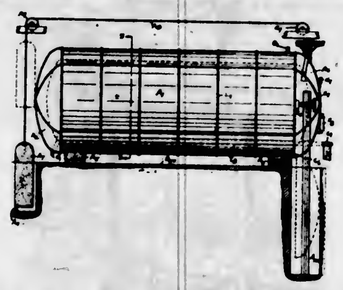


2. In a coin-controlled vending machine having a plate containing a plurality of coin entrance slots, washer catcher mechanism located at the reverse side of said plate adjacent to said slots and comprising a dog at each slot having an arm adapted to project across the slot, and also to enter a hole in a washer should the washer be present, means normally acting on said dogs to move them to their operative position, and means for restraining all said dogs in their inoperative position and adapted on the introduction of a coin or a washer into any coin slot to be engaged thereby and release all said dogs to automatically and simultaneously move to their operative position, whereby on the use of any coin-slot of the series, the washer-catcher dogs at all of the other slots will thereby move to operative position across said other slots and bar the entrance of coins therethrough until the slot used has been freed of its coin or washer.

1,421,454. TANK AND CLOSURE. CHARLES E. GLESSNER, Portland, Oreg. Filed Sept. 29, 1919. Serial No. 327,110. 2 Claims. (Cl. 72—14.)
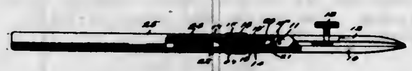
1. The combination of a tank and closure member with an expansible metal covering hermetically enclosing the

inner, outer and end surfaces of the structure of said tank, a vacuum creating means adapted to exhaust the air from between said tank coverings, an expansible metal covering hermetically enclosing the structure of said closure mem-



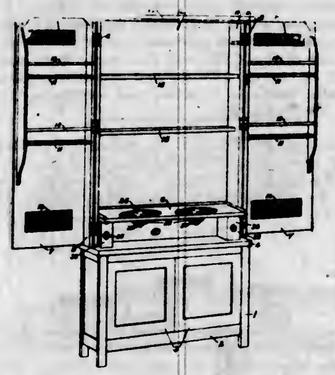
ber, a vacuum creating means adapted to exhaust the air between the covering which surrounds said closure member, a means for exhausting the air from within the tank itself, and a means for sealing the union of said tank member and said closure member.

1,421,455. RULING PEN. CHARLES A. GREEN and HENRY F. SCHUH, Chicago, Ill., assignors to The C. F. Pease Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 29, 1919. Serial No. 348,177. 3 Claims. (Cl. 120—109.5.)



1. In a ruling pen, a stationary blade having a threaded bore in its butt end, a swinging blade pivotally connected with said stationary blade adjacent said bore and provided adjacent its pivot with a cam face, a member mounted within the bore, a compression spring within the bore projecting said member for engagement with said cam face and an externally threaded member extending within said bore and engaging the spring and having its upper end extending outwardly from the butt end of said stationary blade to provide means for attaching a handle.

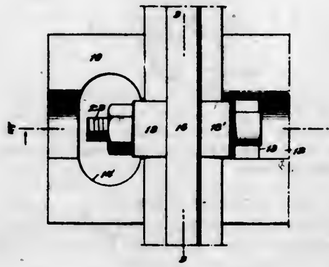
1,421,456. KITCHENETTE CABINET. DARIUS O. GREEN, Toledo, Ohio. Filed Aug. 4, 1921. Serial No. 489,668. 2 Claims. (Cl. 126—38.)



1. In a cabinet the combination of a loosely mounted hotplate, a separately mounted pipe system and a station-

ary pan mounted on a shelf, said pan having upstanding walls at the rear and two sides thereof, the extreme upper marginal portions of said walls having outward turned flanges, the front side of pan being open, the bottom of said pan extending forward past the two end walls, the extreme marginal edges of said bottom having downturned flanges and the rear wall of said pan provided with openings for passing of pipes to burners.

1,421,457. RAIL FASTENING. LOUIS D. GREGG, Hackensack, N. J. Filed Oct. 20, 1921. Serial No. 509,039. 5 Claims. (Cl. 238—332.)



5. A fastening-device for securing a flanged rail upon a cross-tie, comprising two similar but oppositely-disposed apertured clips of malleable material each having two jaws adapted to engage respectively the under surface of said tie and the inclined upper surface of the adjacent rail-flange, the inner face of the vertical portion of each clip being of greater height than the distance between said bottom bearing-surface of the tie and the outer upper edge of the rail-flanges, said upper jaw extending at less than a right-angle from said vertical inner face, a headed bolt passed through said apertures in said clips, and a nut screwed upon said bolt to draw said clips together under tension and clamp said flanges upon said ties.

1,421,458. APPARATUS FOR CHOPPING FOODSTUFFS. GEORGE WRIGHT GREGORY, London, England. Filed Dec. 27, 1921. Serial No. 525,162. 2 Claims. (Cl. 17—22.)

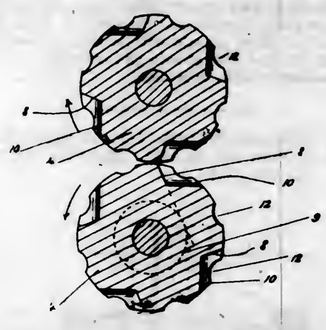


1. In apparatus for chopping food stuffs in which a plurality of blades are employed and having a spring actuated ejector, the combination therewith of a U-shaped fork for the purpose of retaining the blades in position and allowing of easy replacement as set forth.

1,421,459. SNAPPING ROLL. HENRY F. GRITZMACHER, Le Sueur, Minn. Filed Mar. 15, 1922. Serial No. 543,944. 2 Claims. (Cl. 130—5.)

1. A snapping roll provided with a series of pockets in its periphery, each pocket having a flat segment-shaped bottom arranged tangentially of a circle formed concentric

with the roll and substantially one-half of it in diameter, and having a curved side portion which corresponds in cur-



vature with the arc of the segment-shaped bottom and which has its middle part arranged at an obtuse angle to the said flat bottom.

1,421,460. PROPELLER. FRANÇOIS LEONIDAS GUILLEMET, San Francisco, Calif. Filed Oct. 3, 1919. Serial No. 328,273. 8 Claims. (Cl. 170—159.)



1. A propeller comprising a hub, a plurality of outwardly extending blades carried by the hub, the blades being curved transversely throughout their entire lengths, transversely extending arcuate partition plates carried by the blades, the plates being scribed on an arc with the hub as their center, and of substantially elliptical form and terminating flush with the side edges of the blades.

8. In a propeller, the combination of a body formed of relatively heavy material having a plurality of perforations therein to lighten the weight thereof, and plugs of relatively light material fitted within the said perforations.

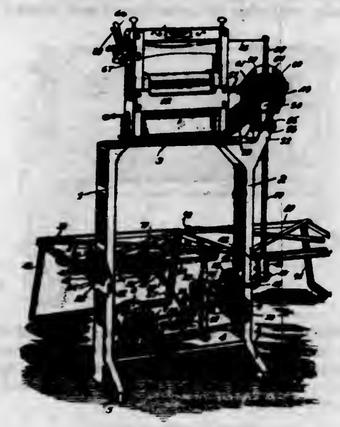
1,421,461. MANIFOLD SALES BOOK AND COVER THEREFOR. FREDERICK HACHMANN, St. Louis, Mo., assignor to William H. Gregg, St. Louis, Mo. Filed Mar. 25, 1921. Serial No. 455,422. 6 Claims. (Cl. 282—9.)



3. A manifold sales book, comprising a plurality of original and duplicate sales tickets, a plurality of tissue sheets interposed between the original and duplicate tickets, said tissue sheets projecting beyond the edges of the original and duplicate tickets, a projection secured to one end of said duplicate tickets, and a back of relatively stiff material to which the projections of the duplicate tickets and of the tissue sheets are secured.

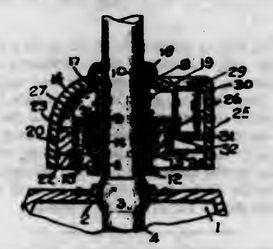
1,421,462. WASHING MACHINE. CHARLES G. HALL, Akron, Ohio. Filed Nov. 22, 1920. Serial No. 425,752. 7 Claims. (Cl. 68—35.)

1. A washing machine comprising a vertical main frame, motive means mounted thereon, a bench hingedly connected to the vertical frame, washing means arranged to be supported upon said bench, a shaft on said bench having



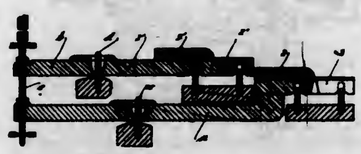
a detachable coupling with the washing means and an operative connection between the motive means and shaft.

1,421,463. TRANSMISSION-LEVER-LOCKING DEVICE. ALEXANDER MACDOWALL HAMILTON, Toronto, Ontario, Canada. Filed May 16, 1921. Serial No. 469,991. 5 Claims. (Cl. 70—128.)



4. In a transmission lever locking device, the combination with a transmission housing and a transmission lever carried by the housing so as to swing, of a ball engaging member carried by the transmission lever, a spring pressed bell movable longitudinally towards the housing against such spring pressure, a ball, means automatically operated simultaneously with the movement of the bell towards the housing for carrying the ball into engagement with and holding it in contact with the ball engaging member, and key operated means for releasing such holding means.

1,421,464. KEYBOARD FOR MUSICAL INSTRUMENTS. PIERRE HANS, Brussels, Belgium. Filed Mar. 5, 1920. Serial No. 363,599. 5 Claims. (Cl. 84—424.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



2. In a musical instrument having a conventional keyboard consisting of seven white and five black keys to the

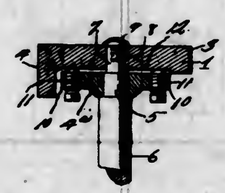
octave, each of said keys being adapted to operate an actuating element for a different note in the chromatic scale, the combination of a second keyboard having similar keys, each black key on the second keyboard being permanently connected with the actuating element of a white key on the first keyboard, all keys on both keyboards being simultaneously accessible.

1,421,465. GAUGE FOR EYEGLASS MOUNTINGS. MARINIUS HANSEN, Brooklyn, N. Y. Filed May 20, 1920. Serial No. 382,906. 4 Claims. (Cl. 81—15.)
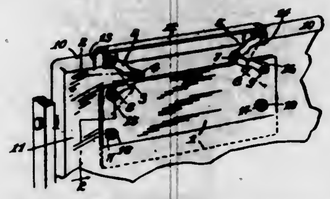


1. A guage for eyeglass mountings, comprising a curved body section to rest between the straps, and a flange carried with the body section for its entire length and extending equal distances from its sides.

1,421,466. RING-RAIL BRACE FOR SPINNING MACHINES. JAMES B. HANSON and JOHN R. SHEPHERD, Anderson, S. C. Filed June 24, 1921. Serial No. 480,065. 4 Claims. (Cl. 118—68.)



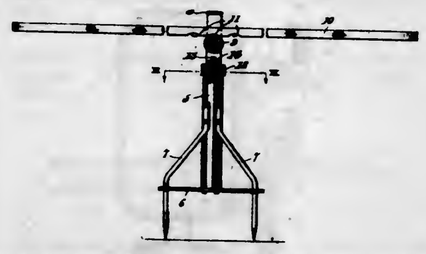
2. The combination with a ring rail secured to a lifting rod, of means for preventing movement and warping of said ring rail in one direction and for straightening the rail after warping, said means comprising a transversely disposed plate carried by the lifting rod adjacent one side of the ring rail and adjusting screws extending through the transversely disposed plate and engaging the surface of the ring rail.

1,421,467. WINDSHIELD ATTACHMENT. ALBERT S. HARDEN, Newark, N. J. Filed Sept. 28, 1921. Serial No. 503,853. 7 Claims. (Cl. 296—97.)



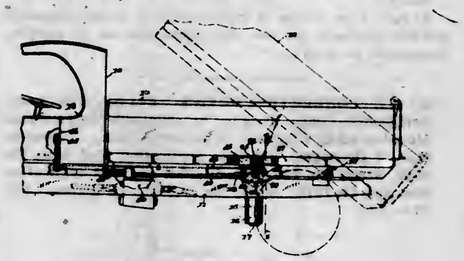
4. An attachment for a wind-shield, comprising an elongated plate of transparent material, and a pair of supporting members, each comprising a pair of links pivoted together at one end, one link of each pair being pivoted to the plate adjacent one corner and the other link being pivoted to a spring clip, and a bar secured to the clips.

1,421,468. COMBINED MERRY-GO-ROUND AND TEETER BOARD. ANTON F. HAUMERSON, Fort Atkinson, Wis., assignor to Pounder Harrow Company, Fort Atkinson, Wis. Filed July 23, 1921. Serial No. 487,018. 6 Claims. (Cl. 46—22.)



1. A combined merry-go-round and teeter board comprising a support, a frame supported in a vertical position upon the upper end of said support and swiveled upon the latter about a vertical axis, a transverse member supported by said frame, a teeter board extending through the frame and resting upon said transverse board, said transverse member comprising a horizontal roller, and said board being provided with transverse grooves near its central portion for selective reception of said roller.

1,421,469. FLUID HOIST. JULIUS P. HEIL, Milwaukee, Wis. Filed Apr. 2, 1919. Serial No. 286,872. 10 Claims. (Cl. 298—22.)

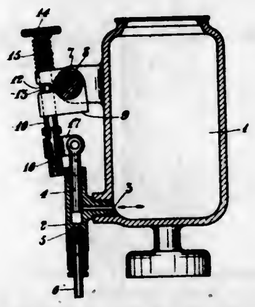


1. A fluid hoist, comprising a pair of cylinders having ports at their opposite end portions, pistons within the cylinders and between the ports of the respective cylinders and having piston rods extending through the cylinders, means connecting said piston rods together, a tank in communication with both cylinders, ducts connecting the ports of the cylinders together in pairs, a pump intersecting the pairs of ducts between the respective ports thereof for moving a fluid medium within the cylinders from one side of the pistons to the other to move the pistons to predetermined positions of rest, said positions of rest of the pistons closing the ports which are supplying the fluid medium to the pump and thereby automatically stopping the movement of the pistons, and a valve controlled duct in communication with the ducts connecting the pairs of ducts to permit the passage of the fluid medium from one side of each piston to the other side without passing through the pump.

1,421,470. FORCED-LUBRICATION APPARATUS PROVIDED WITH PUMPS. KARL GUSTAF FREDOLF HELLSING, Stockholm, Sweden, assignor to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden, a Manufacturing Company registered under the laws of Sweden. Filed Oct. 4, 1920. Serial No. 414,600. 6 Claims. (Cl. 184—27.)

3. In a forced lubrication apparatus, the combination of a receptacle for lubricant, pumps connected with said re-

ceptacle and adapted to pump the lubricant from the same, pistons in said pumps, a driving means for each of said pump pistons, a stem connected with each pump piston, a stud on said stem, a member connected with each driving

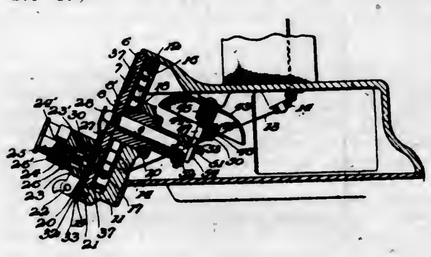


means and having an aperture in which said stem is rotatable and movable longitudinally, and having a slot in the longitudinal direction of said aperture and a notch transverse to said slot in which slot and notch said stud is movable.

1,421,471. METAL COMPOUND POWDER AND PROCESS FOR THE PRODUCTION OF THE SAME. WALTER PROSSER HESKETT, Castlecliff, New Zealand. Filed Nov. 17, 1919. Serial No. 338,737. 8 Claims. (Cl. 75—1.)

1. As a new article of manufacture, a metal compound powder produced by the self disintegration of metallic compounds or alloys.

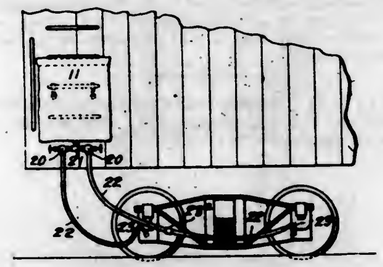
1,421,472. CORRECTION DEVICE. FRANK C. HINCKLEY, Bridgeport, Conn., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Original application filed Mar. 20, 1917, Serial No. 156,044. Divided and this application filed Apr. 11, 1918. Serial No. 227,941. 18 Claims. (Cl. 274—17.)



1. The combination in a sound-recording or reproducing machine, of a record-tablet support and a sound-box having relative movement between them, a disc-shaped support for a correction-sheet, means for causing a relative rotation of said correction-sheet support simultaneously with and proportionately to said relative movement, and marking means comprising cooperating members disposed above and below the correction-sheet, the disc-shaped support having a circumferential recessed portion adapted to receive the lower member of the marking means.

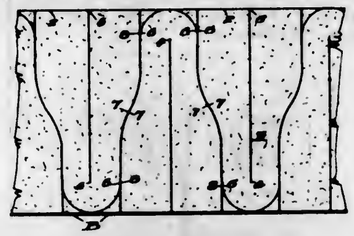
1,421,473. JOURNAL-BOX COOLER. JOHN HINSON, Montreal, Quebec, Canada. Filed Oct. 19, 1920. Serial No. 418,021. 6 Claims. (Cl. 64—28.)

1. A device of the class described comprising a reservoir, means for attaching same to a car, a water conduit leading from the reservoir and a goose-neck at the outlet end of the conduit adapted to hook into a journal box, said goose-



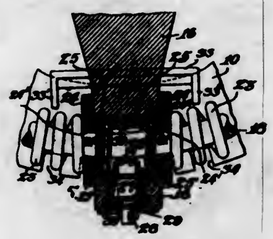
neck having a large tip to resist withdrawal from the journal box.

1,421,474. BLANK FOR SLIPPERS. MORRIS HIRSHFIELD, Brooklyn, N. Y. Filed Mar. 17, 1922. Serial No. 544,582. 3 Claims. (Cl. 36—47.)



1. A blank for the uppers of slippers comprising a single piece of material with a straight cut heel or base, and curved sides, the curve of approximately one half of each side being a reverse of the curve of the other half, so that the sides of two blanks lying adjacent each other and pointing in opposite directions will coincide throughout almost their entire length.

1,421,475. SAFETY LATCH FOR STEERING CONTROLLERS. JOSEPH HOFFMAN, Camden, N. J. Filed June 15, 1921. Serial No. 477,693. 5 Claims. (Cl. 74—5.)



1. In a steering controlling device of the class described, a sector lever, a ball lever mounted on said sector lever at its support and co-axially therewith, springs, positioned on said sector lever, adapted for compression between said sector lever and said ball lever and latch mechanism operably positioned within said ball lever adapted to engage said sector lever upon the breaking of a spring thereon, substantially as described.

1,421,476. STUD AND SOCKET FASTENER. GEORGE A. HOLMES, Newton Center, Mass., assignor to United States Fastener Company, a Corporation of Maine. Filed June 3, 1921. Serial No. 474,818. 2 Claims. (Cl. 24—208.)



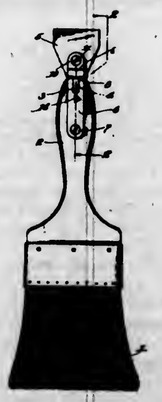
1. A stud and socket fastener comprising a socket member having a stud receiving socket and base flange and being provided with an annular ridge between the mouth of the socket and the base flange, said socket and ridge projecting from opposite faces of the base flange combined with a stud member having a bulbous head and a base flange provided with an annular ridge adapted to surround and co-operate with the ridge of the socket member.

1,421,477. FAN. JOHN T. HOPE, Kansas City, Mo. Filed June 16, 1921. Serial No. 478,001. 2 Claims. (Cl. 170—168.)



1. A fan comprising a hub and a ring disposed in different parallel planes with their axes alined, and forwardly bowed blades converging forwardly around the common axis of said hub and ring, the cutting edges of the blades being straight and their opposite or discharge edges being outwardly bowed; the front portions of said curved edges of the blades respectively overlapping the corresponding ends of the cutting edges of the following blades, the rear ends of said edges of the blades being spaced apart and said edges from front to rear occupying intersecting planes.

1,421,478. SCRAPER ATTACHMENT FOR PAINT-BRUSHES. OLE J. HOPE, Chicago, Ill. Filed Oct. 27, 1920. Serial No. 419,802. 4 Claims. (Cl. 15—111.)



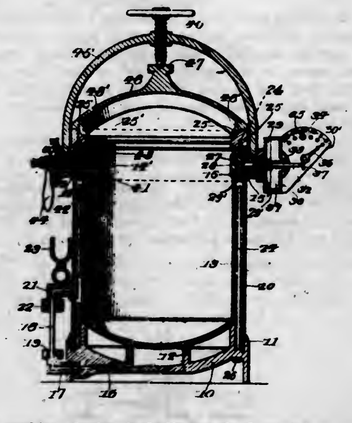
1. The combination of a handle; a pair of clamping arms secured to opposite sides of the handle at one end thereof and projecting beyond the same, and a scraper blade engaged between the extending portions of said arms, together with a member connecting said extensions and engaging an opening in the blade, and means by which said blade is positively engaged with the handle at a distance from said member to prevent pivotal movement of the blade thereon.

1,421,479. EMBROIDERY NEEDLE. LEE D. HOVER, Chicago, Ill. Filed Apr. 11, 1921. Serial No. 460,394. 1 Claim. (Cl. 112—80.)



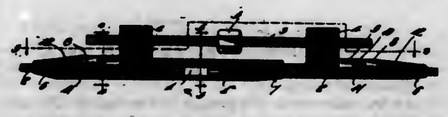
The combination with an embroidery needle, of a gage device comprising a loop passing around the body of the needle obliquely to its longitudinal axis, a resilient shank carrying the loop and seating alongside the needle body, and means for locking the shank to the needle body.

1,421,480. COOKER. HORACE HULL, Denver, Colo., assignor of one-half to L. A. Bastin and one-half to John H. Post, both of Denver, Colo. Filed Feb. 2, 1921, Serial No. 441,856. Renewed Jan. 19, 1922. Serial No. 530,492. 4 Claims. (Cl. 53—1.)



1. A cooking device including a food container and a surrounding jacket spaced therefrom, the space between the jacket and container constituting a steam generating chamber, and a single means for exhausting steam from the steam chamber, exhausting steam from the container, and conducting steam from the steam chamber to the container.

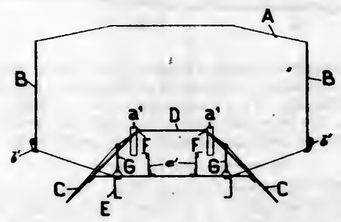
1,421,481. COMBINATION TROLLEY-WIRE STRETCHER AND SPLICE. DEMPSIE RAY HUNLEY, Cofoco, W. Va. Filed Aug. 22, 1921. Serial No. 494,289. 3 Claims. (Cl. 191—44.1.)



1. A combined trolley wire stretcher and splice comprising two slidably connected tubular splice members adapted to receive the adjacent ends of a broken trolley wire,

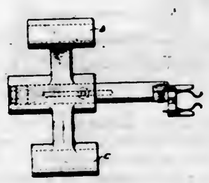
means for securing the wire ends in said splice members, and means for relatively sliding said splice members to draw said wire ends toward each other; said splice members being adapted to remain permanently on the wire ends and being shaped to allow free passage of a trolley wheel or like device along them.

1,421,482. SELF-DISCHARGING CAR. GERHARD IMMAND, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Jan. 14, 1921. Serial No. 437,371. 2 Claims. (Cl. 105—246.)



1. In combination with a receptacle, a substantially single central movable bottom member and a plurality of outer bottom members, said bottom members linked together, means to keep at least one of said outer bottom members fast, and further means for permitting the tilting of at least one of the other of said outer members whilst raising its inner end.

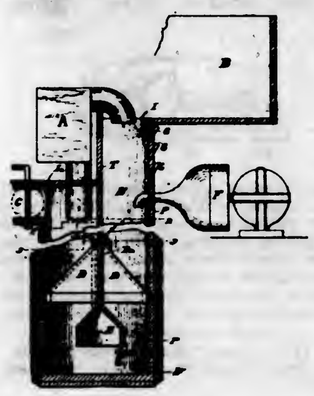
1,421,483. BACK GAUGE. GEORGE W. JACQUES, Stratford, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Aug. 23, 1919. Serial No. 319,401. 4 Claims. (Cl. 218—15.2.)



1. In combination, an edge-gauge, a hollow stem projecting therefrom, a hollow internally threaded support within which said stem is slidingly mounted, and means permitting adjustment of the operative position of the edge-gauge comprising an adjusting screw journaled in said stem and coacting with said internally threaded support.

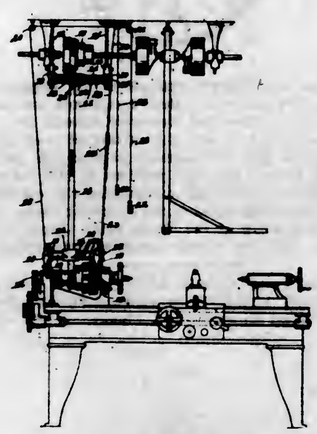
1,421,484. AIR COMPRESSOR. ARTHUR B. JENNINGS, New York, N. Y. Filed Oct. 30, 1917. Serial No. 199,286. 3 Claims. (Cl. 183—26.)

1. An air compressor comprising a descending, and an ascending column of water, said columns being in communication at both top and bottom, means to introduce air and water into one column, means to maintain the water at a lower level in the other column, and a plurality of pockets arranged at intervals in the descending column adapted to receive air from the flowing water, said pockets



being spaced apart and arranged whereby the water may flow inwardly between said pockets.

1,421,485. CONE BELT SHIFTER. EMERALD E. JONES, Chicago, Ill. Filed Mar. 10, 1919. Serial No. 281,645. 6 Claims. (Cl. 64—4.)

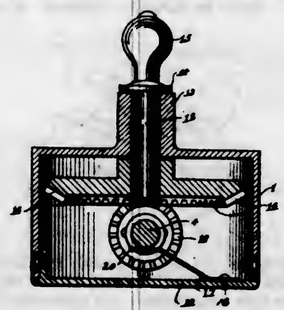


1. The combination with two oppositely arranged cone pulleys and a belt therefor, of a guide adjacent each pulley; a carriage slidable on each guide; a belt guide on each carriage engaging said belt; means for positively operating each of said carriages to shift the corresponding portion of the belt from a larger onto a smaller pulley; and a tension spring associated with said carriages for effecting delayed operation of one of the carriages for shifting said belt from a smaller onto a larger pulley, substantially as described.

1,421,486. OPERATING DEVICE FOR VALVE GRINDERS. ERWIN R. JONES, Columbus, Ohio. Filed May 29, 1919. Serial No. 300,777. 2 Claims. (Cl. 74—50.)

1. In a valve, a casing, a valve rotating shaft journaled in said casing, a pair of spaced pinions carried by said shaft, a gear element capable upon being revolved of successively meshing with said pinions to alternately oscillate

the shaft first in one direction and then in the other, a removable closure plate for said casing, and a leaf spring having one end thereof fixed to said plate and its opposite



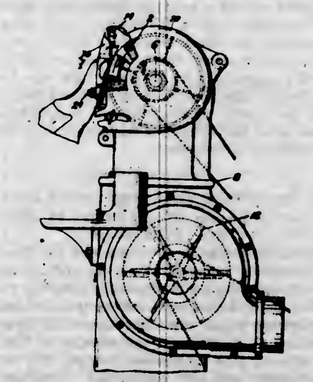
or free end disposed to engage with said shaft, whereby said spring will serve to maintain said shaft substantially stationary during the period of repose when the gear element is out of mesh with said pinions.

1,421,487. LUBRICATOR. SAMUEL P. JONES, Columbia, S. C. Filed Apr. 29, 1921. Serial No. 465,417. 7 Claims. (Cl. 184—48.)



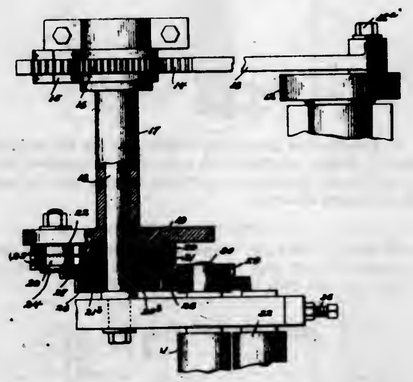
7. The combination of a grease cup, and a closure applicable thereto and adjustable thereon for forcing the lubricant from the same, the connection between said cup and its closure being a threaded one, a means for locking the closure to the cup to positively prevent turning of said closure in a direction to unscrew, and means carried by the plug for disengaging the locking means, said disengaging means being also operable to turn the closure in a direction to unscrew from the cup.

1,421,488. MACHINE FOR REMOVING SURPLUS MATERIAL. BERNHARDT JORGENSEN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 16, 1918. Serial No. 262,856. 22 Claims. (Cl. 12—83.5.)



1. In a machine for removing surplus material from the bottom of a lasted shoe, the combination with trimming means, of a shoe positioning device constructed and arranged to position longitudinally an end of a shoe held in the hands of the operator with its bottom facing said trimming means and movable with the shoe in a path transverse to the plane of the shoe bottom to present the surplus material in the field of action of said means.

1,421,489. STRIP-FEEDING MECHANISM. FRANK M. JOSLIN, Amsterdam, N. Y., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y., a Corporation of New York. Original application filed Mar. 29, 1920, Serial No. 369,487. Divided and this application filed June 25, 1920. Serial No. 391,842. 17 Claims. (Cl. 273.)



4. In a strip feeding mechanism, a feed roll, two gears secured to said roll, two other gears cooperating with said first named gears, and separate means operating alternately and intermittently at predetermined intervals for driving said last named gears.

1,421,490. PERMANENT AIR GAUGE FOR PNEUMATIC TIRES. ERNST JUNG, St. Louis, Mo. Filed Dec. 20, 1920. Serial No. 431,998. 1 Claim. (Cl. 152—11.5.)



An air gauge, comprising a closed housing provided with a sight opening, a dial and a co-operating movable indicator arranged inside of said housing in proximity to said sight opening, a tubular member on the underside of said housing that is adapted to be screwed onto the valve stem of a pneumatic tire, said tubular member being of such length that the housing will be spaced away from the extreme upper end of the valve stem, a hose connection on the upper side of said housing to which an air line can be

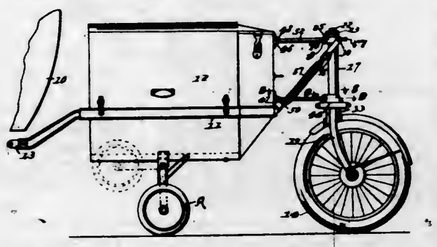
connected, a check valve in said hose connection, an air inlet pipe extending downwardly from said check valve and arranged with its lower end projecting into the valve stem of the tire, and an actuating device for said movable indicator provided at one end with an air inlet arranged substantially parallel to the air inlet pipe through which air is supplied to the inner tube of the tire.

1,421,491. METHOD OF PRODUCING HOLLOW WIRE FOR MANUFACTURING OF CHAINS AND THE LIKE. FRIEDRICH KAMMERER, Pforsheim, Germany. Filed Aug. 9, 1920. Serial No. 402,493. 2 Claims. (Cl. 29—188.)



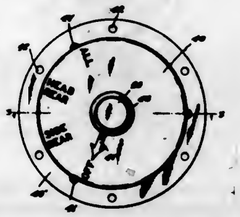
1. A method of producing hollow wire for the manufacture of chains, consisting in embedding dehydrated borax as flux in the hollow wire and then drawing out the latter in the known manner.

1,421,492. TRAILER. HENRY KAPFERER, Billancourt, France. Filed May 14, 1921. Serial No. 469,672. 11 Claims. (Cl. 288—33.4.)



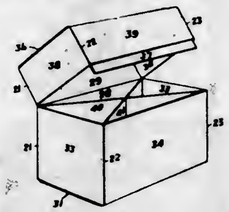
1. In a trailer, a chassis, a traction wheel, a head, a mounting for the traction wheel rotatable in the head, means for resisting the rotation of the mounting, oscillatable means for connecting the head to a chassis frame, and springs connecting the said head and chassis frame.

1,421,493. IGNITION AND LIGHTING SWITCH. LEROY D. KELLOGG, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 5, 1916. Serial No. 89,013. 16 Claims. (Cl. 200—4.)



1. An ignition switch and a lighting switch for automobiles, an enclosing casing therefor, and a removable common actuating means for said switches, said means being required to register in irregularly shaped apertures in said casing and said lighting switch before said lighting switch can be effectively operated by said actuating means.

1,421,494. PAPER BOX. HARRY C. KESSLER, Warrington, Pa., assignor to Brenker & Kessler Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 11, 1921. Serial No. 451,565. 2 Claims. (Cl. 229—38.)



1. A box having a body and a cover formed from an integral folded paper blank, the back of the cover and the back of the body being formed of a continuous piece so as to form a hinge connection between said body and cover, foldable members for closing one end of the body, and foldable members for closing one end of the cover, one of the foldable members of the cover extending parallel with and beyond the front of the cover and arranged to be tucked in the body in back of the front forming member of the body when the cover is closed.

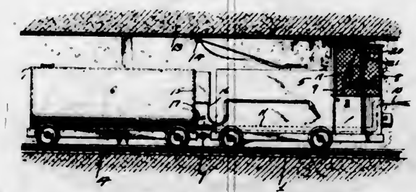
1,421,495. AUTOMOBILE SPARK INDICATOR. JOSEPH L. KLAVON, Jackson, Mich. Filed Mar. 8, 1921. Serial No. 450,644. 1 Claim. (Cl. 175—183.)



A spark indicating device comprising an elongated member formed from insulating material and provided with a plurality of apertures, axially disposed threaded conductors threaded in the elongated member and having their adjacent ends disposed in the apertures, the upper and lower edges of said elongated member being provided with a plurality of notches, conductor plates disposed in said notches, the outer ends of the conductor screws being threaded through said conductor plates, means whereby said conductor screws may be adjusted in relation to each other, said conductor plates being provided with rearwardly extending binding screws, an auxiliary casing formed from insulating material surrounding the elongated member, said elongated member and auxiliary casing being disposed within a metallic casing, said metallic casing being provided with a horizontal flange and vertical flanges engaging the upper side of the casing and the ends of the elongated member, the lower ends of said vertical flanges being provided with inturned lugs, the lower side of the insulating casing being removable and disposed upon said lugs, and means passing through the flanges of the casing and into the elongated member for holding said member against displacement.

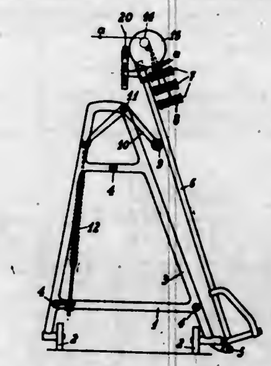
1,421,496. MINE FIRE-FIGHTING APPARATUS. JOHN KLEWANECH, Royalton, Ill. Filed May 25, 1920. Serial No. 384,080. 1 Claim. (Cl. 169—24.)

A fire fighting apparatus for mines and the like, said apparatus comprising a motor driven car and a trailed tank adapted to be run into a mine tunnel, a coupling connection between the motor driven car and the trailed tank, a horizontally disposed nozzle extending forwardly from the motor driven car at its forward end at a point spaced from its lower side, a pipe connection between the nozzle and the trailed tank, said pipe connection extending through the motor driven car and entirely housed therein, a flexible connection in said pipe located substantially above the coupling between the motor driven car and the trailed tank and a plurality of hose connections carried by the forward end of the tank and forming means whereby hose lines may



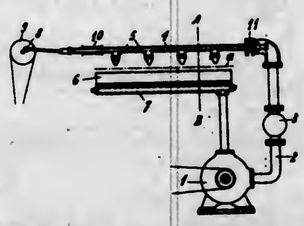
be connected for extinguishing fires in wing tunnels after water from the forwardly extending nozzle has extinguished fire in the main tunnel beyond the entrance to the wing tunnel.

1,421,497. REEL FRAME. HANS KOCH and HANS MÜLLER, Dietikon, Switzerland. Filed Apr. 21, 1920. Serial No. 375,574. 5 Claims. (Cl. 28—54.)



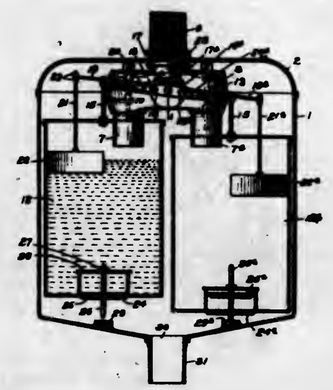
2. A reel frame comprising in combination a frame, a reel carrier movably mounted on said frame springs acting on said carrier, a reed, a roller rotatably mounted for guiding the threads drawn from the reels means actuated by said roller to change the place of passage of the threads through the reed.

1,421,498. DEVICE FOR DAMPENING THE WARP ON LOOMS, ETC. HANS KOCH, Dietikon, Switzerland. Filed Sept. 3, 1921. Serial No. 498,462. 1 Claim. (Cl. 139—82.)



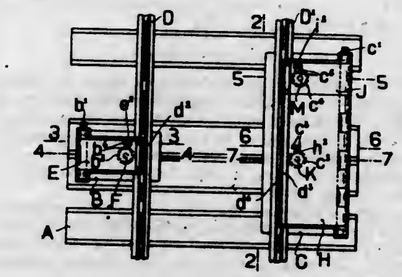
A device for moistening warp threads on looms and the like comprising in combination an air pump, air discharge nozzles connected to said air pump and arranged above the warp threads, air intake means below the warp threads and connected to said air pump, means connected with the delivery end of said air pump to humidify the air discharged from the nozzles, and means to reciprocate the nozzles which deliver the air to the warp threads.

1,421,499. LIQUID-MEASURING APPARATUS. HOWARD R. KOEHLER, Monaca, Pa. Filed June 30, 1921. Serial No. 481,530. 7 Claims. (Cl. 73—28.)



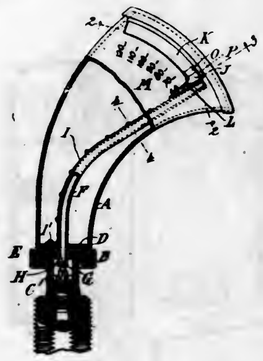
1. In a liquid measuring apparatus, the combination of a manifold having an inlet and two outlets, valves controlling flow through said outlets, a pivoted walking beam, releasable means for holding said beam in alternate positions, a pair of measuring tanks attached one to each end of said beam and each provided with an opening communicating with one of said manifold outlets, each tank being provided with an outlet, valves controlling flow through the tank outlets and operated by movements of said tanks, and means including a float in each tank for controlling said manifold inlet valves and the movements of said tanks.

1,421,500. AXLE-RECORDING DEVICE FOR RAILWAYS. WERNER KOLBE and JOHANNES FRITZEN, Essen-on-the-Ruhr, Germany, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Feb. 14, 1921. Serial No. 445,046. 5 Claims. (Cl. 234—12.5.)



3. An axle recording device for railways comprising electric contact devices adapted to be disposed adjacent the rails of said railway, each contact device including a pivoted flap, a power accumulator disposed under said flap, the rails of said railway being formed with a recess to accommodate the edge of said flap, said flap being adapted to be moved against the tension of its corresponding power accumulator by the wheels of a car passing over said railway, electrically operated recording apparatus connected to said contact devices and adapted to function when said contact devices are operated.

1,421,501. GAUGE. HENRY P. KRAFT, Ridgewood, and MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Mar. 25, 1916. Serial No. 86,733. 4 Claims. (Cl. 73—109.)



1. A pressure gauge having a Bourdon tube and a visual indicating part adapted to be directly engaged by said tube and moved to an indicating position, said indicating part and tube being disconnected, whereby the tube may return to its initial position without moving said indicating part.

1,421,502. BATH-CABINET VAPORIZER. JOHN F. KRUSE, Indianapolis, Ind. Filed Oct. 31, 1921. Serial No. 511,679. 2 Claims. (Cl. 126—350.)



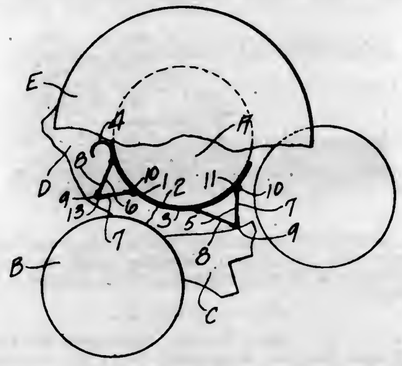
2. A vaporizer for vapor baths comprising a frame, a casing secured to said frame, an end opening in said casing, a pan slidable in said opening, guides for said pan, a nipple in the top of said casing, a pipe slidably connected to said nipple, and a second pipe slidably connected with the first named pipe.

1,421,503. BLEACHING POWDER. EDWARD THORNDIKE LADD and EBEN CHARLES SPEIDEN, Niagara Falls, N. Y., assignors to Isco Chemical Company, Inc., Niagara Falls, N. Y., a Corporation of New York. Original application filed Mar. 5, 1921, Serial No. 449,901. Divided and this application filed Feb. 7, 1922. Serial No. 534,764. 1 Claim. (Cl. 23—13.)

The herein described new bleaching powder consisting of a screened chlorinated lime hydrate from which, before chlorination, a substantial proportion of its smaller sized naturally occurring particles had been further removed, substantially as described.

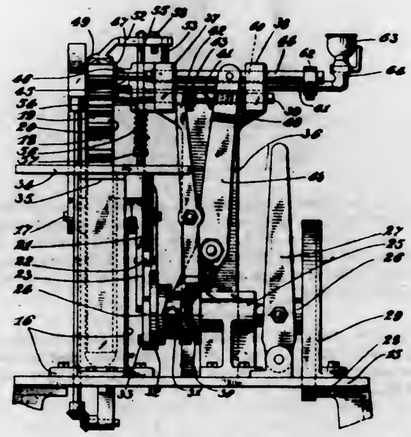
1,421,504. INDICATOR AND CALIPER GAUGE FOR CANE MILLS. WILLIAM LANOMEIER, St. Louis, Mo. Filed May 18, 1921. Serial No. 470,703. 5 Claims. (Cl. 33—182.)

1. An indicator and gauge for the turn plate of cane mills, comprising a flexible base strip; a flexible indicator slide thereon and adapted to slide thereover and parallel thereto; and two sets of hinged caliper arms mounted over the indicator slide at opposite ends thereof, each set comprising two arms hingedly connected together at one end and having their other ends hingedly connected to the base strip and to the indicator slide, respectively, the two



sets of caliper arms being thus adapted to spread and close equally as the indicator slide moves back and forth over the base strip.

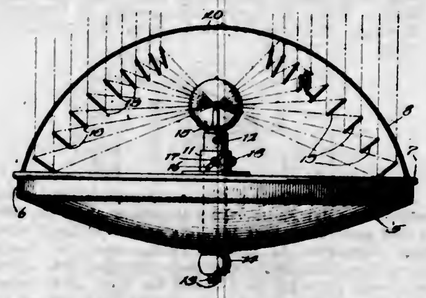
1,421,505. DATE-DEPITTING MACHINE. CHESTER S. LEONARD, Lansdowne, Pa. Filed Sept. 1, 1921. Serial No. 497,463. 8 Claims. (Cl. 146—6.)



1. In a fruit stoning machine, the combination with a rotary fruit conveyor having recesses receptive of the fruit, of a power driven reciprocating plunger adapted to pierce the fruit in a horizontal plane and expel the stone, and a single knife combined with said plunger adapted to slit the fruit on one side only.

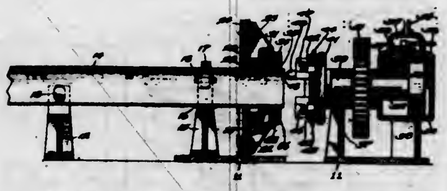
1,421,506. HEADLIGHT. ALEXANDER S. LIMPERT, Pittsburgh, Pa. Filed July 17, 1920. Serial No. 396,895. 4 Claims. (Cl. 240—41.)

1. An automobile headlight comprising a source of light, a series of concentrically arranged annular reflectors adapted to reflect in substantial parallelism intercepted light rays emanating at various angles from said source, said reflectors being of progressively diminishing diameters from the rear to the front of said headlight and each being respectively disposed at different angles with respect to said source of light and the front reflector being



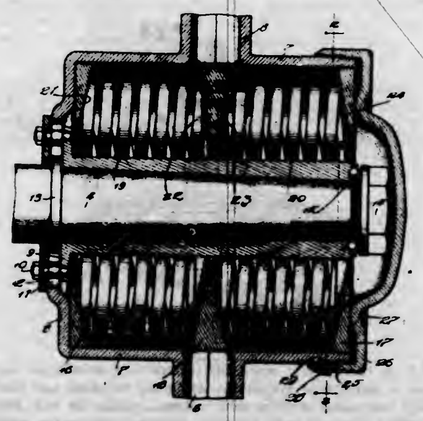
in advance of said light and the rear reflector being behind said light.

1,421,507. METHOD OF LAPPING METAL PIPES. SAM J. LINDBERG, Chicago, Ill., assignor to Crane Company, Chicago, Ill., a Corporation of Illinois. Filed June 21, 1920. Serial No. 390,428. 12 Claims. (Cl. 29—156.)



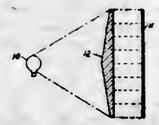
1. The method of lapping pipes, which consists in exerting a pressure against the end of a pipe to upset and thicken the walls thereof, embracing the pipe near said end to limit the length of the upset, exerting a pressure radially and longitudinally against said thickened walls to displace the metal thereof, and first yieldably and then positively opposing the movement of the metal under the action of said pressure to thereby cause the metal to flow into the required flange form.

1,421,508. RESILIENT WHEEL FOR VEHICLES. ROBERT LINN, Chicago, Ill. Filed July 11, 1919. Serial No. 310,025. 8 Claims. (Cl. 152—45.)



1. A resilient wheel for vehicles having coiled compression springs engaging longitudinally with the axle, and having means for transmitting the load from the axle longitudinally through said springs to the outer portions of the wheel.

1,421,509. ILLUMINATING APPARATUS. JOHN A. LOCKWOOD, Fillmore, N. Y. Filed Jan. 31, 1921. Serial No. 441,320. 2 Claims. (Cl. 240—106.)



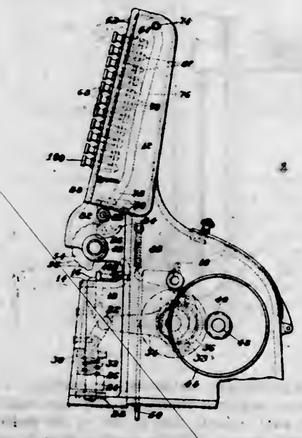
2. In combination, a lens of varying translucency and a source of light, the translucency of the lens being such that the amount of light passing through the lens is substantially equal at any two given points in a plane at right angles to a perpendicular passing through the lens and light and at that side of the lens remote from the source of light.

1,421,510. VIOLIN BOW. GUSTAVE M. LOTH, Chicago, Ill. Filed Oct. 24, 1921. Serial No. 510,020. 5 Claims. (Cl. 84—282.)



2. A bowing device for violins comprising a mouthpiece adapted to be grasped by the player's teeth, and bow-supporting means connected to the outer end of the mouth-piece.

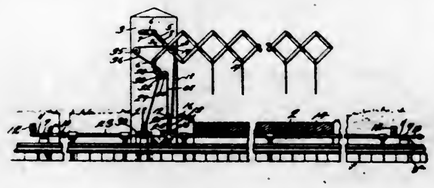
1,421,511. STAMPING MACHINE. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 1, 1918. Serial No. 231,842. 12 Claims. (Cl. 101—18.)



1. In a stamping machine, a work support, a rotatable stamping member co-operating with the support and having a plurality of impression surfaces, a series of mov-

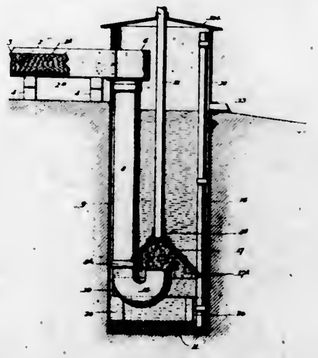
able keys of equal length, corresponding to the impression surfaces, a lever with which the keys contact at different distances from its fulcrum, and connections between the lever and stamping member arranged to rotate said member positively to bring the proper impression surfaces into and out of their working positions.

1,421,512. TRAIN-OPERATED GATE. HENRY CLAY MCCONNELL, Grand River, Iowa. Filed Mar. 8, 1921. Serial No. 450,545. 1 Claim. (Cl. 246—311.)



A train operated gate, said gate comprising a lazy tong supported by a post and horizontally disposed, cables having their ends secured to the lazy tongs adjacent their rear pivotal point, one of said cables passing rearwardly over a pulley and downwardly over a pulley and leading to an operating lever adapted to be engaged by a train, the other cable leading away from the supported end of the lazy tongs and over a pulley and downwardly and to a lever located remotely from the post and adapted to be operated by a train, a lever pivoted adjacent the post and adapted to be operated by a train, a cable connected to said last named lever and passing between horizontally disposed pulleys and upwardly and having its end connected to the rearwardly extending cable and forming means whereby upon a downward pull on the same the lazy tongs will be folded.

1,421,513. AUTOMATICALLY-OPERATING HYDRO-PNEUMATIC WATER-LIFTING APPARATUS. ROBERT B. MCCONNEY, Denver, Colo., assignor of sixteen and two-thirds one-hundredths to De Witt Clinton Gates, Denver, Colo. Filed Apr. 26, 1921. Serial No. 464,513. 11 Claims. (Cl. 103—84.)



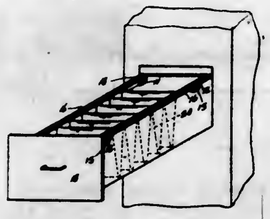
1. A hydro-pneumatic water lift, comprising a water conduit, means connected therewith for commingling air and water in said conduit, and means at the end of said conduit whereby the air raises a portion of said water; a hood in said casing in which said commingled air and water discharges and a protector plate inside of said hood.

1,421,514. TROUSERS SUPPORTER. WILLIAM M. MCFARLAND, Norwich, N. Y., assignor of one-fifth to William Reed Turner, one-fifth to Warren E. Eaton, one-fifth to Melvin C. Eaton, and one-fifth to Burton J. Fernalld. Filed Feb. 17, 1920. Serial No. 359,310. 1 Claim. (Cl. 24—222.)



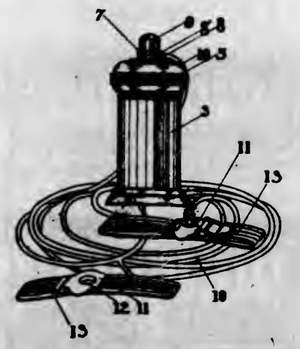
A fastening device for adjustable garment supporters comprising a flat, substantially triangular plate, the sides of said plate being bent inwardly and their edges rolled upon themselves to provide button engaging flanges spaced from each other and from the inner side of the plate, said plate having a closed flat apex at the meeting edges of the flanges, the opposite open end of the plate being adapted to receive various sized buttons and converging from end to end to provide a wedge shaped slot for the engaged button.

1,421,515. FILING DEVICE. RICHARD MCKNIGHT, Chicago, Ill. Filed Feb. 12, 1921. Serial No. 444,394. 7 Claims. (Cl. 129—16.)



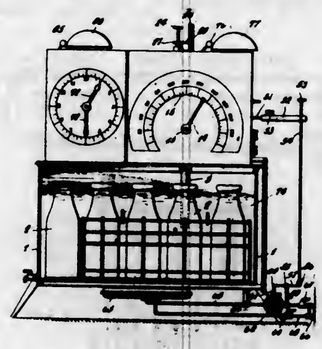
1. The combination with a filing receptacle, of supporting clips fitting over and detachably engaging the sides thereof; and guides detachably supported by said clips, substantially as described.

1,421,516. MAGNETIC HEALING APPARATUS. SHINTARO MAESHIMA, Tokyo, Japan. Filed May 2, 1918. Serial No. 232,184. 2 Claims. (Cl. 174—88.)



1. A therapeutic appliance comprising a metallic casing, a mixture of magnetite, antimony sulphide and charcoal contained within said casing, copper in rod form passing through said mixture, terminal plates for application to the body and electrical connections from said plates to the casing, substantially as described.

1,421,517. AUTOMATIC ALARM MECHANISM FOR PASTEURIZING MILK. PHILIP MALCAMP, New Orleans, La. Filed Jan. 9, 1922. Serial No. 528,121. 6 Claims. (Cl. 236—94.)



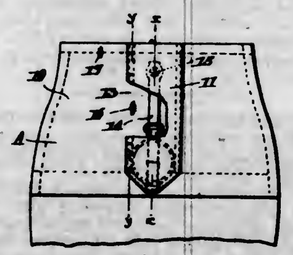
1. In a pasteurizing apparatus, the combination of a liquid container in which the material to be pasteurized is placed; means for heating said container comprising a fuel supply; an expansible and contractible thermostatic element adapted to be moved by changes in temperature of the material being treated; an alarm mechanism controlled by the movements of said thermostatic element; means to regulate said fuel supply controlled by said thermostatic element; and a second alarm mechanism adapted to be set off from said first named alarm mechanism, substantially as described.

1,421,518. ADJUSTABLE THRUST BEARING. CLAUDE A. MARIS, Terre Haute, Ind. Filed Jan. 7, 1921. Serial No. 435,589. 5 Claims. (Cl. 64—25.)



1. As an article of manufacture, a bearing cap comprising a main body having a shaft bearing extending through a portion of its length, a cooperating half-bearing bushing axially movable in the main body, and means for axially adjusting said bushing, said means comprising a temper screw cam mounted in the main body and cooperating with a cam surface formed on the bushing.

1,421,519. WATCH POCKET FOR OVERALLS, WORKING SHIRTS, AND THE LIKE. CHARLES TOLMIE MASSON, Wood Bay, Manitoba, Canada. Filed Aug. 6, 1921. Serial No. 490,309. 2 Claims. (Cl. 2—154.)



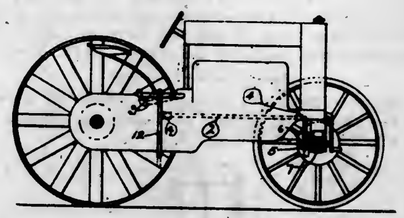
2. The combination with a garment of the character described, of a relatively long and narrow watch pocket, and a retaining strip in the pocket secured to the inner end of the pocket and extending to a point adjacent to the outer end of the pocket, and being releasably connected near the outer end to the garment, said strip being designed to extend through the ring on a watch and being of sufficient length to permit the watch to be moved up and down in the pocket, the watch in its uppermost position in the pocket being visible through the top thereof.

1,421,520. SAW. JULIUS GEORGE MATTSON, Heretaunga, New Zealand. Filed Jan. 4, 1922. Serial No. 526,890. 2 Claims. (Cl. 143—133.)



1. A saw blade having pairs of cross-cut teeth and rip teeth alternating with the pairs of cross-cut teeth, each rip tooth having a point at its forward edge and tapering inwardly from the point to its rear edge and being beveled on one side face, and on the opposite side to the succeeding rip tooth.

1,421,521. AUTOMATIC CLUTCH RELEASE. GEORGE E. MAXWELL, New Ulysses, Kans. Filed Aug. 10, 1920. Serial No. 402,713. 2 Claims. (Cl. 180—82.)

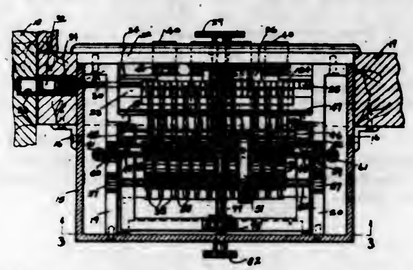


1. A safety attachment for tractors, comprising a rock-shaft, a front arm on said rock-shaft, a horizontal slot in the end of said front arm, an elongated pin adapted to form a pivot for the front axle and project through said slot, a downwardly arched rear arm on the rock-shaft extending parallel to the front arm, said rear arm being bent upwardly and having a hook at the end of the upwardly bent portion, for engagement with the clutch pedal lever of the tractor.

1,421,522. LOCK. GEORGE F. MAYER, Chicago, Ill. Filed Oct. 15, 1920. Serial No. 417,070. 47 Claims. (Cl. 70—54.)

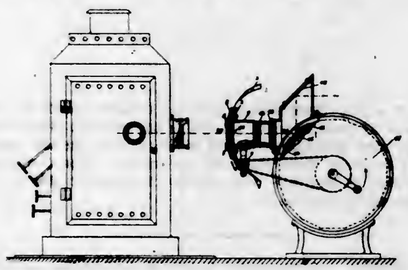
1. A lock comprising a slidably mounted bolt; manually operable means for moving said bolt; a longitudinally movable tumbler mounted adjacent to said bolt adapted, by a movement across the bolt, to lock the bolt

against movement; means for moving the tumbler into locking position; and similarly actuating independently



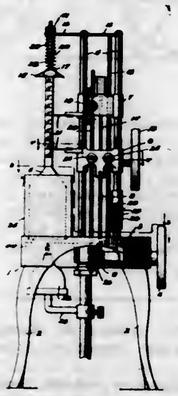
acting means for rocking the tumbler out of locking position, substantially as described.

1,421,523. CINEMATOGRAPHIC APPARATUS. EMIL MECHAU, Rastatt, Germany. Filed Aug. 20, 1921. Serial No. 493,979. 3 Claims. (Cl. 88—24.)



1. In cinematographic projectors with continuously moving flexible picture band in combination, a projection lens with spherically curved field of image, a lens system with at least one torical surface, arranged near to the picture band between the latter and the projection lens and adapted to produce of the cylindrically curved picture band a virtual image of spherical curvature, and a cylindrically curved guide for the flexible picture band.

1,421,524. BUTTER-FAT GAUGE. JOHN A. MEEKER, Potsdam, N. Y. Filed Apr. 16, 1921. Serial No. 462,009. 12 Claims. (Cl 73—51.)



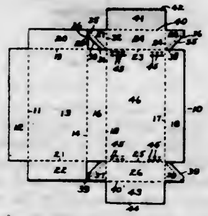
2. A gauge comprising a support, vertical guides carried thereby, a cross head carrying a pointer and adapted to reciprocate on the said guides, a second pointer adjustable with relation to the first pointer, rotary means fixed to the support for adjusting the cross head, and means carried by the cross head for adjusting the second pointer, and supplementary friction means for holding the pointers in set position.

1,421,525. NUMBERING HEAD. CHARLES A. MEISEL, Boston, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 28, 1921. Serial No. 465,144. 3 Claims. (Cl. 101—85.)



1. A numbering head comprising a series of type wheels for the powers of ten, ratchets and pawls for operating the same and shiftable means adapted to be brought into cooperation with one or another pawl for holding it from its ratchet.

1,421,526. FOLDING BOX. CHARLES C. MILLER, Fort Wayne, Ind. Filed Apr. 16, 1921. Serial No. 462,002. 4 Claims. (Cl. 229—30.)

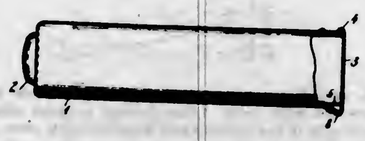


1. A folding box comprising a bottom section and a cover section, the bottom section having two side flaps and two end flaps each foldable on the bottom section, each end flap being hinged at its opposite ends to the side flaps and the hinges tending to draw all said flaps upwardly and inwardly relatively to the bottom section and each end flap being of width sufficient to be folded upon itself and to frictionally engage and brace against the bottom section for locking the said end flaps and side flaps in substantial upright position relatively to the bottom section.

1,421,527. FIRE-EXTINGUISHING COMPOSITION AND PROCESS OF PREPARING SAME. JOSEPH BRUCE MILLER, Indianapolis, Ind. Filed Feb. 4, 1922. Serial No. 534,192. 8 Claims. (Cl. 23—5.)

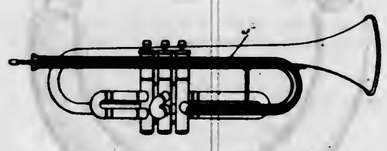
2. A fire extinguishing composition comprising a combination of chemical elements producing, after chemical reaction with each other, calcium sulphate, sodium chloride, and sodium sulphate, intermixed with surplus of hydrated lime, sodium bicarbonate, silica, and rock salt, all inter-mixed and in powder form, substantially as set forth.

1,421,528. FLASH LIGHT. LOUIS A. MILLER, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed July 14, 1921. Serial No. 484,589. 3 Claims. (Cl. 240—8.5.)



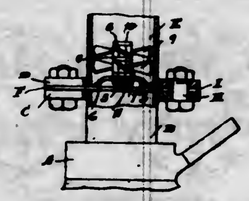
1. In a flashlight, the combination with the case, and the cover hinged at one side to the case and latch mechanism for holding the cover to he case, and comprising a tongue on the cover and a catch on the case wall, that portion of the wall carrying the catch being offset outwardly beyond the plane of the wall thereby to leave the interior of the case unobstructed by the latch mechanism.

1,421,529. CLEANING DEVICE. ROSS MILLHOUSE, Los Angeles, Calif. Filed Sept. 30, 1921. Serial No. 504,320. 1 Claim. (Cl. 15—100.)



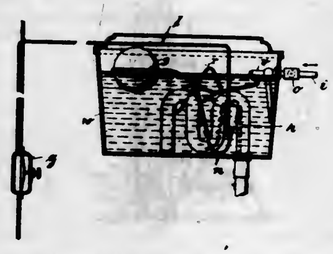
A wind musical instrument cleaner comprising a relatively long resilient lineal member composed of a spiral spring having its adjacent windings in contact, and a cleaning member formed of a wire doubled upon itself, bristles clamped between the doubled portion of the wire, and means encircling a portion of said wire for wedging the same within the coils of said lineal member.

1,421,530. CARBURETOR ATTACHMENT. FRANK MOORE and ALEXANDER GRAY, Toronto, Ontario, Canada. Filed Jan. 24, 1921. Serial No. 439,359. 2 Claims. (Cl. 48—180.)



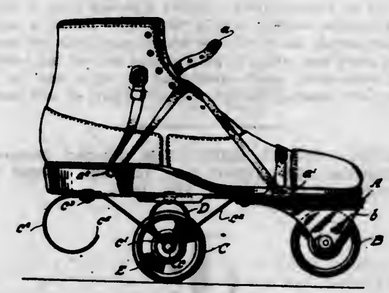
2. In combination an intake pipe for internal combustion engines, and a rotary mixing device comprising two rotary devices of substantially the same diameter, adapted to be mounted in said pipe and to have the desired clearance therewith, and to be actuated by a common current of flowing fluid to essentially revolve at different rates of speed, each consisting of a hub; a common spindle on which said hubs rotate, and a set of vanes carried by each of the said hubs, as set forth and for the purpose specified.

1,421,531. DOUBLE-KNEE SIPHON. FERDINAND MOHAS, Sommerfeld, Germany. Filed Sept. 8, 1920. Serial No. 409,028. 2 Claims. (Cl. 4—5.)



1. A double acting siphon, comprising two U-shaped members and a member connecting the lower end of their adjacent legs, said siphon being adapted to be operated by forcing out the air, in combination with the push button arrangement, adapted to effect the starting of the operation of said siphon, an air pressure balance pipe connecting the air spaces of said siphon with each other and serving to balance the air pressure within the siphon and an auxiliary siphon serving to remove the balance of water, accumulating in the connecting member of the main siphon.

1,421,532. ROLLER SKATE. JOHN MUCK, Milwaukee, Wis. Filed Nov. 17, 1919. Serial No. 338,486. 3 Claims. (Cl. 46—51.)

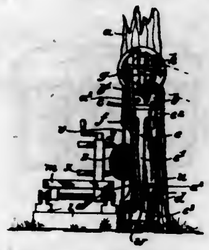


1. A roller skate comprising a plate for the reception of the foot, a pair of wheels one at each side of the said plate, an axle upon which the said wheels are mounted, and yielding bearings for supporting the axle, the said yielding bearings comprising a spring strip attached at its forward end and slidably engaging the foot plate of the skate at the other.

1,421,533. FRAME SAW. GOTTFRIED MÜLLER, Sumiswald, Switzerland. Filed Dec. 3, 1920. Serial No. 428,089. 1 Claim. (Cl. 143—60.)

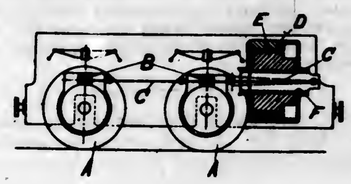
A transportable saw mill mechanism of the character set forth, comprising in combination, a saw carrying frame, a power shaft with a connection to said saw frame for vertically reciprocating the latter, a supporting board, means thereon for supporting and guiding said saw frame, shaft mounting means associated with said board, and a

separate shaft mounting means, the two said mounting means adapted to journal said power shaft transversely of said guide means, and said supporting board and said



shaft mounting means adapted to be mounted on opposite sides of a standing column perforated to freely receive said shaft.

1,421,534. WORM DRIVE FOR ELECTRIC CARS, ESPECIALLY MINE LOCOMOTIVES. GOTTWALT MÜLLER, Berlin-Weissensee, Germany. Filed Oct. 7, 1921. Serial No. 506,139. 3 Claims. (Cl. 105—119.)



1. In an electric vehicle having a hollow axle, a worm-drive located entirely within the vehicle frame, a motor located outside the wheel base and co-axial with the worm-drive shaft and with the longitudinal axis of the vehicle, said worm-drive shaft pivoted at its outer end to the motor, and passing through the hollow axle of said motor.

1,421,535. PENCIL GRIP. VAN QUINTON MURDOCK, Columbus, Ohio. Filed June 13, 1921. Serial No. 477,240. 2 Claims. (Cl. 120—108.)



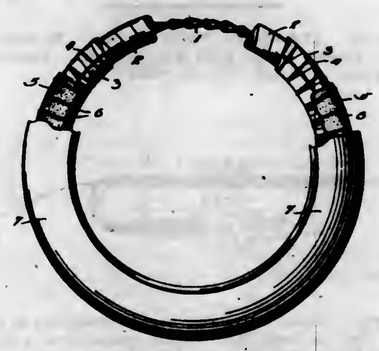
1. In a device of the character described, the combination with a pencil of spaced rings or carriers positioned on said pencil, said rings or carriers being provided on their opposed faces with sockets, a flexible sleeve interposed between said rings or carriers and having its end portions fitting into said sockets, and an insert carried by said sleeve between the same and said pencil, substantially as described.

1,421,536. WRENCH. BERT MYER and JOHN BROWN, Elkhart, Kans. Filed Dec. 21, 1921. Serial No. 523,891. 4 Claims. (Cl. 81—159.)



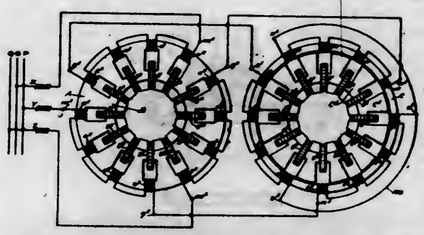
1. A wrench comprising a stock having a guide opening provided with teeth, a jaw having a shank slidable and rotatable in the opening and provided with teeth that move into and out of interlocking engagement with the teeth of the stock on the rotation of the shank, and a holding device that enters the opening to prevent the rotation of the shank.

1,421,537. SOFT-RUBBER TIRE FILLER. MOSES W. NEEDHAM, Waco, Tex. Filed Dec. 22, 1920. Serial No. 432,461. 2 Claims. (Cl. 152—5.)



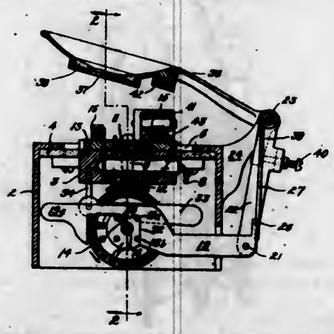
1. In a reinforced soft rubber tire filler, the combination of a chain forming a complete ring, a layer formed of strips of rubber, said strips being disposed in reverse direction, an outer strip of soft rubber, and means for securing the strips against unravelling, for the purpose described.

1,421,538. DIRECT-CURRENT TRANSFORMER. ARTHUR F. NESBIT, Wilkinsburg, Pa. Filed Mar. 9, 1921. Serial No. 450,988. 4 Claims. (Cl. 171—123.)



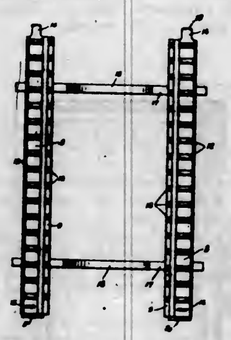
1. A transformer comprising a main field having integrated primary and secondary cores, a plurality of coils on said primary and secondary cores, a core having a plurality of coils forming a commutating field, said commutating field being angularly adjustable about the axis of said primary and secondary cores, each group of commutating field coils being in series with a corresponding group of the primary or stator coils, a commutator group connected to the coils of said secondary core, and collectors for said commutator group.

1,421,539. ELECTRIC FRUIT-MARKING MACHINE. LEWIS NEUENSCHWANDER, Los Angeles, Calif., assignor to Electric Fruit Marking Co., San Francisco, Calif., a Corporation of California. Filed June 3, 1919. Serial No. 301,531. 15 Claims. (Cl. 101—35.)



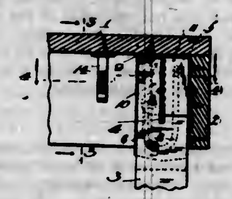
1. A fruit marking machine comprising a disk, means for mounting the disk for rotation in a fixed plane and about a fixed axis, dies on said disk, a movably mounted arm arranged adjacent the disk, and means operated by said arm for rotating said disk to place one of said dies in marking position.

1,421,540. ANTIFRICTION SKID. GEORGE L. NOLL, Madison, N. J. Filed Dec. 5, 1921. Serial No. 519,881. 4 Claims. (Cl. 193—41.)



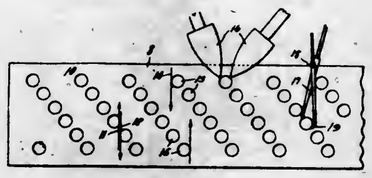
1. A skid comprising a pair of skid beams, cross bars connecting therebetween, means secured near the ends of said skid beams adapted to engage a clamping wedge, metal channel strips attached to the upper surfaces of said beams, a plurality of spaced rolls rotatable in said channels, and hooks at one end of the strips adapted to engage oblong recesses formed through the other end of said strip.

1,421,541. FOLDING TABLE. LEWIS NOLTY, Lancaster, Pa. Filed Mar. 11, 1922. Serial No. 542,996. 7 Claims. (Cl. 45—48.)



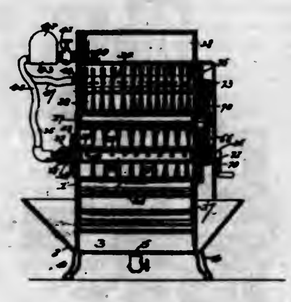
1. In a folding table, the combination with the top of a fixed depending cruciform member thereon consisting of intersecting plates one of which has a U-slot, and a table leg slotted to engage said plates, and having a pin engaging the U-slot.

1,421,542. RADIATOR. EMIL OCHSNER, Sutton, Nebr. Filed June 10, 1920. Serial No. 387,957. 1 Claim. (Cl. 257—129.)



A radiator for automobiles having headers and water tubes connecting the same, the tubes being disposed in banks or series arranged in or in like relation to the path of movement of the radiator, with adjacent tubes in each bank overlapping each other transversely with relation to planes parallel with the path of movement and with the front and rear ends of adjacent banks or series overlapping each other transversely with relation to planes parallel with the path of movement, the banks being spaced transversely to give access for repair to all of the tubes in each series.

1,421,543. DISHWASHING MACHINE. CHARLE OLSON, Lafayette, Minn. Filed June 5, 1920. Serial No. 386,694. 4 Claims. (Cl. 15—74.)

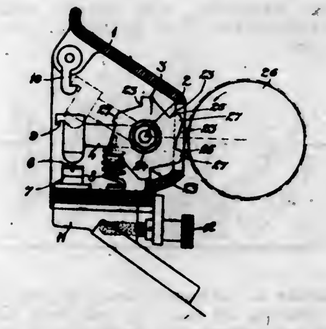


3. In a washing apparatus for the purpose indicated, a base, a housing supported on the base and having a water reservoir, dish washing means including rotary fountain brushes mounted in the housing, a spray pipe above the dish washing means, an auxiliary chamber having a valve controlled connection with the reservoir, and means connecting the auxiliary chamber and the respective rotary brushes and the spray pipe.

1,421,544. MEANS FOR AUTOMATICALLY CUTTING OFF THE FEED MOTION OF MACHINE TOOLS. NILS JOSEF OLSSON, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Original application filed Aug. 1, 1918, Serial No. 247,784. Divided and this application filed Aug. 23, 1919. Serial No. 319,424. 2 Claims. (Cl. 51—165.)

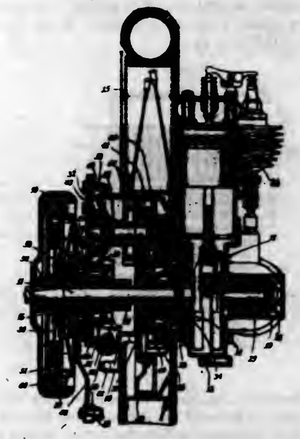
1. The combination in an apparatus for cutting off the feed motion of a machine tool when the work has reached its predetermined size, of controlling means therefor, and a trip lever adapted to co-operate with said means, comprising an actuating arm and a work-engaging disc having teeth of different radial length, said disc angularly adjust-

able relatively to said arm to bring either of said teeth into position to engage the work and hold the arm out of engagement with the controlling means until the work has



reached the required size and then to clear the work and permit the arm to actuate said means, thereby stopping the feed motion of the machine tool.

1,421,545. MOTOR VEHICLE. ALDEN E. OSBORN, New York, N. Y. Filed Sept. 1, 1920. Serial No. 407,373. 2 Claims. (Cl. 180—55.)



1. In a motor vehicle the combination of a traction wheel, a hub for said wheel, a supporting member passing through said wheel hub and having a bearing for said hub, a main shaft passing through said bearing, a propelling motor connected to said main shaft at one side of said wheel, a secondary shaft substantially parallel with said main shaft, a gear on said secondary shaft, a gear on the wheel hub and intermeshing with the first named gear, and controllable means for rotating said secondary shaft from said main shaft or for allowing said main shaft to turn independently of said secondary shaft, said secondary shaft, said gearing and said controllable means being on the other side of the said wheel from the said motor connection to the main shaft.

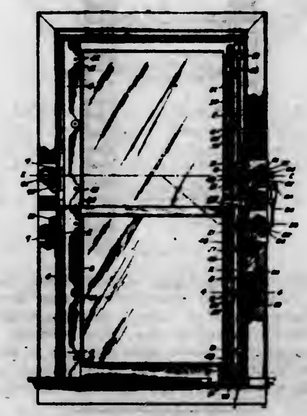
1,421,546. RADIATOR. DAVID O. PARKIN, Venice, Calif. Filed Apr. 28, 1920. Serial No. 377,823. 3 Claims. (Cl. 257—130.)

1. In a radiator, a pair of complementary blanks having vertical V-shaped corrugations, said blanks arranged in nested engagement with each other with one wall only of each of the corrugations on one blank abutting against the



corresponding corrugation on the other blank; the other opposed walls of the corrugations being spaced apart to form a vertical water space therebetween.

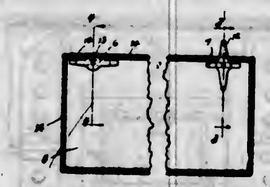
1,421,547. WINDOW-OPERATING MEANS. JESSE PARSONS, Seattle, Wash., assignor to Parsons Appliance Company, Seattle, Wash. Filed June 9, 1919. Serial No. 302,655. Renewed Nov. 1, 1920. Serial No. 421,156. 8 Claims. (Cl. 20—42.)



1. The combination with a window sash of a permanently projecting guide block pivoted at one end of the sash and adapted to enter the sash retaining groove of the window frame and to permit swinging of the sash thereon as upon a pivot, and a guide strip alined therewith at the same side of the sash and adapted to be projected and withdrawn at will, to enter and withdraw it from the sash retaining groove of the window frame.

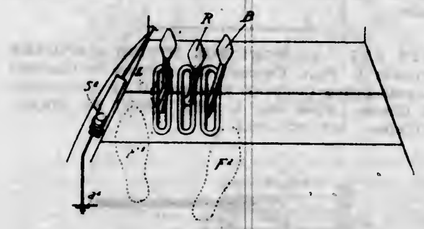
1,421,548. FASTENER FOR LICENSE PLATES. GEORGE PENDERGAST and RAYMOND F. ETHIER, Milwaukee, Wis. Filed Apr. 13, 1921. Serial No. 461,065. 7 Claims. (Cl. 40—125.)

2. A fastening device comprising a T-shaped member of substantially uniform thickness, a spring in the form of a bow secured intermediate its ends upon the shank of the T-shaped member and transversely of the head thereof,



and means for preventing rotation of the spring relative to the T-shaped member.

1,421,549. LIGHTING SYSTEM FOR AUTOMOBILES. WILLIAM FRANKLIN PENROD, Blanchester, Ohio, assignor of two-thirds to Anthony J. Wissel and Max S. Wise, both of Cincinnati, Ohio, partners doing business as Auto Sales and Service Company. Filed Aug. 15, 1917. Serial No. 186,315. 3 Claims. (Cl. 171—97.)



3. In an electric lighting system for automobiles, the combination with a variable potential generator, a headlight lamp; an electric circuit connecting said generator and said lamp; voltage reducing means in said circuit for reducing the voltage supplied to said lamp; and a gear control pedal biased to high gear position; of control means for rendering said voltage reducing means ineffective; said control means being biased to inoperative position and situated adjacent to said gear pedal, and being operable alternately with said pedal by the same foot.

1,421,550. AEROPLANE. CARL PFEIFER, St. Louis, Mo. Filed June 11, 1918. Serial No. 239,382. 2 Claims. (Cl. 244—15.)



1. A flying machine comprising a tractor propeller, propellers disposed adjacent to the ends of its sustaining surface or surfaces and rotating in a plane substantially parallel thereto, mechanism under control of the operator for altering the pitch or angle of the blades of said propellers to lift the machine vertically, a member pivotally suspended from the machine adapted to operate said mechanism in response to lateral inclination of said surface or surfaces to correct such inclination, sustaining propellers disposed beneath the tail of the machine and rotating in a plane substantially parallel thereto, means for altering the pitch or angle of the blades of said tractor during flight to control the speed of the machine independent of the speed of the engine and automatic means for reducing the pitch or angle of the blades of said sustaining propellers during movement of the machine by said tractor.

1,421,551. SPRING LUBRICATOR. JAMES F. A. PHILLIPS, Trenton, N. J. Filed Sept. 29, 1921. Serial No. 504,029. 1 Claim. (Cl. 267—50.)



A leaf spring comprising a plurality of leaves contacting with each other throughout their widths, said leaves having drilled therethrough a series of circular longitudinally spaced oil holes each of which extends from one flat side of a leaf to the other, and an oil cup for supplying oil to one of the endmost of the series of oil holes, said cup having a flat discharge end secured directly and integrally to the exposed flat side of one of the leaves around its oil hole to reinforce this leaf and overcome the necessity of weakening the leaf by drilling a relatively large hole therein for attaching the cup; the ends of all of said oil holes except the end communicating with said oil cup being entirely closed by the adjacent spring leaves, whereby the flow of oil is dependent upon the opening and closing action of the leaves during operation of the spring.

1,421,552. REAR BRAKE FOR MOTOR AND OTHER CYCLES. FRITZ PLETSCHER, Lucerne, Switzerland. Filed Sept. 2, 1921. Serial No. 498,025. 3 Claims. (Cl. 192—5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In the herein-described brake for motor and other cycles fitted at the rear of the cycle frame and comprising spring-controlled jaws adapted to act on the rim of the hind-wheel, the combination, with the pedals and chain-drive of the cycle, of an intermediate chain-wheel meshing with the driving chain, means to support the said chain-wheel and allow it to rotate in a forward direction only, gearing to connect the movable support with the brake, and means to actuate the gearing and the brake when the pedals are turned in a backward direction, all as and for the purpose set forth.

1,421,553. GUN SIGHT. CHARLES POHL, Los Angeles, Calif. Filed Apr. 21, 1920. Serial No. 375,451. 2 Claims. (Cl. 33—51.)



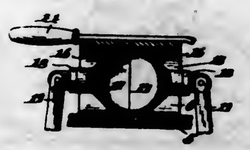
1. A gun sight comprising a bar adapted to be positioned transversely of a gun barrel and formed with a series of sight openings arranged in a row extending on the opposite sides of the center and radially from a point on a line passing through the center of the bar at right angles thereto.

1,421,554. AUXILIARY INLET DEVICE FOR INTERNAL-COMBUSTION ENGINES. CHARLES POHL, Los Angeles, Calif. Filed Aug. 10, 1920. Serial No. 402,587. 3 Claims. (Cl. 251—92.)



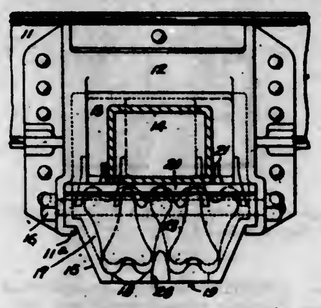
1. In an auxiliary inlet device for internal combustion engines, the combination of a member containing a plurality of intake ports and having an outlet port adapted to communicate with the intake manifold of an engine, and a valve member having two series of ports, the ports of each series being of different diameters and the ports of one series corresponding in diameter with the respective ports of the other series, and said valve member being adjustable to different positions and the ports being spaced so that when the valve member is in some positions ports of like diameter will register with the intake ports and so that when the valve member is in a different position ports of different diameters will register with the intake ports.

1,421,555. POP-CORN MOLD. NATHANIEL B. POST, Chicago, Ill. Filed Oct. 29, 1919. Serial No. 334,131. 6 Claims. (Cl. 107—16.)



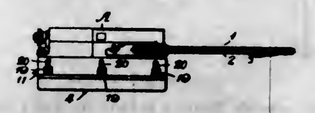
1. A mold comprising a support; a mold member rigidly mounted on said support and provided at one side with a mold recess therein open at its ends; a mold board pivotally mounted on said support to swing into and out of operative position with relation to said first mentioned mold member; a mold member secured to said mold board and provided with a mold recess cooperating with said first named recess to form a mold chamber open at its opposite ends; a pair of oppositely arranged mold heads slidably mounted in said mold chamber; and means for simultaneously forcing said mold heads toward and away from each other, substantially as described.

1,421,556. COUPLING-CENTERING DEVICE. ROBERT E. POWERS, Montreal, Quebec, Canada. Filed Dec. 8, 1920. Serial No. 428,019. 9 Claims. (Cl. 213—42.)



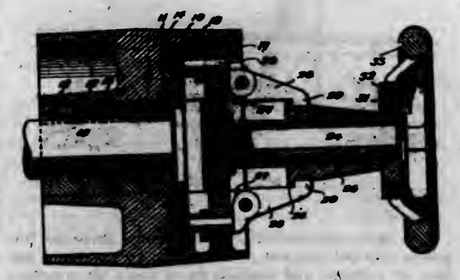
1. A coupler centering device comprising a U shaped throat, a coupler support connected between the arms of the throat, a coupler supporting carriage, rockers supporting the carriage on the support, and a bolt connecting the arms of the throat and holding the support and the rockers.

1,421,557. SUPPORT FOR MINING MACHINES. THOMAS E. PRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 6, 1920. Serial No. 379,210. 6 Claims. (Cl. 262—30.)



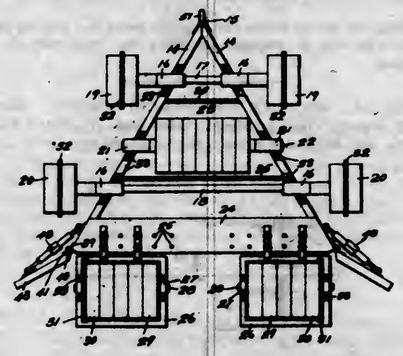
1. In combination with a mining machine having suitable cutting mechanism for cutting a continuous kerf, an auxiliary support adapted to be connected to said mining machine, to carry the latter with its cutting mechanism at a higher level, said support comprising two members having telescoping side walls, means for adjusting the height of said members, comprising a plurality of lifting devices, and means for actuating said lifting devices simultaneously.

1,421,558. FRICTION-CLUTCH PULLEY. ALOIS L. PREIMESBERGER, Menasha, Wis. Filed July 31, 1920. Serial No. 400,555. 1 Claim. (Cl. 192—68.)



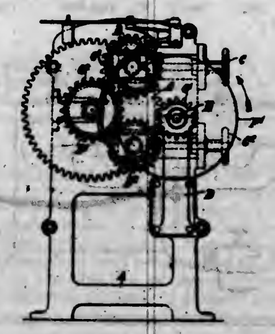
In a friction clutch, a pulley, a plurality of clutch disks associated with the pulley for rotation therewith, a shaft, an additional clutch disk fixed upon said shaft and interposed between the aforementioned disks upon which said pulley is loosely mounted, said pulley including an end wall, a shaft projecting from said end wall, a tapered collar slidable on said second mentioned shaft, means for adjusting said collar, plungers movable in bores provided in said end wall, and levers pivoted upon the end wall and actuated by said collar to move the plungers into engagement with the adjacent disk, whereby all of said disks are operatively associated to fix said pulley to the shaft.

1,421,559. GRADING MACHINE. EDWARD PRENDERGAST, St. Louis, Mo. Filed May 10, 1920. Serial No. 380,019. 4 Claims. (Cl. 37—5.)



1. A grading machine comprising an A frame formed of channels, a plurality of cutter blade sections secured to the underside of the said frame, wheels adjustably carried by the frame and rollers adjustably carried by the frame, and a cutter blade mounted on each side of the rear end of the frame.

1,421,560. MACHINE FOR BREAKING COCOA CAKE OR THE LIKE. WILLIAM HOWARD PRESCOTT, London, England, assignor to Joseph Baker and Sons Limited, London, England. Filed July 16, 1920. Serial No. 396,734. 1 Claim. (Cl. 83—12.)



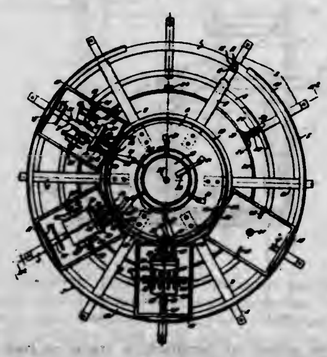
A machine for breaking cocoa cake or like material comprising three toothed rollers disposed with their taxes in three superposed planes and cooperating for passage of the material between them, the first roller cooperating with the second roller, and the second with the third, one of the upper pair of rollers being of a general oval form and section in order that during rotation of said rollers the width of space between said upper pair of rollers is periodically varied.

1,421,561. BATTERY CANDLE. EDWIN PUGSLEY, New Haven, Conn., assignor to The Winchester Repeating Arms Company, a Corporation of Connecticut. Filed Nov. 8, 1921. Serial No. 512,415. 7 Claims. (Cl. 240—8.5.)



1. In a battery hand lamp, a tubular casing of paper having its front end turned back in a crimp into which an incandescent lamp bulb may be threaded, substantially as described.

1,421,562. TESTING MACHINE. WILLIAM J. RAFTERY, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a Corporation of California. Filed Apr. 14, 1921. Serial No. 461,187. 10 Claims. (Cl. 73—51.)

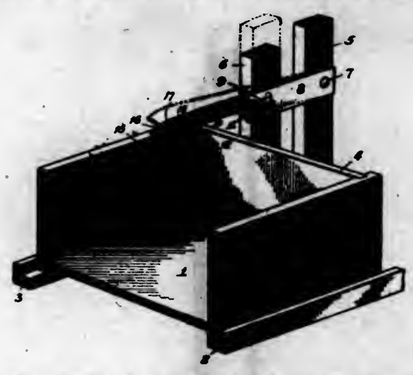


1. In a device of the class described, a test tank adapted to contain liquid, a reciprocating member, gripper devices carried by the reciprocating member and adapted to grip the sides of a receptacle to be tested, independent means carried by said member for sealing the filling opening of the receptacle, independent means automatically operating to force the receptacle against said sealing means during the submergence of the receptacle, and means for operating the reciprocating member.

1,421,563. LOCKING MEANS. DANTE A. RAGGIO, Chicago, Ill. Filed Jan. 11, 1919. Serial No. 270,636. 1 Claim. (Cl. 45—64.)

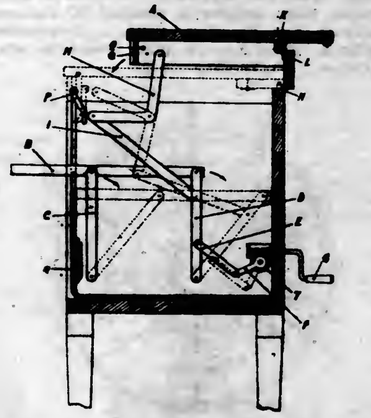
A desk-hook stamped from sheet metal and adapted for use with wooden or other soft material drawers, said hook comprising a strong light-weight body portion hav-

ing a notch or recess in the lower edge thereof adapted to engage and lock the drawer, the forward end of said hook being cam shaped to ride over the edge of the drawer, a portion of the sheet metal forming said hook being bent laterally at substantially right angles to the body thereof



to form an integral continuous flange extending along the drawer engaging edge of the cam and the forward portion of the notch or recess forming the hook, thereby providing a light-weight hook having a continuous wide bearing surface adapted to engage the drawer.

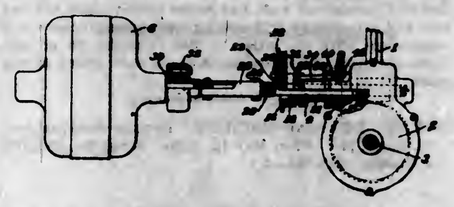
1,421,564. OFFICE DESK. FERNANDO BIANCHI Y RECHE, Madrid, Spain. Filed Feb. 26, 1920. Serial No. 361,508. 2 Claims. (Cl. 45—52.)



1. In an article of furniture, a frame, a leaf loosely pivotally connected to the rear upper side of the frame, a top pivotally connected to said leaf, a bell-crank lever pivotally mounted in the frame and having one of its arms pivotally connected to the upper board, a lower board, levers having their lower ends pivotally mounted in the frame and their upper ends pivotally connected to the lower board, and a link connecting the other arm of said bell-crank lever to one of the last named levers.

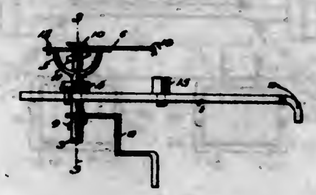
1,421,565. POWER-TRANSMISSION APPARATUS. WALTER C. ESSE, Dalton, Mass. Filed Apr. 19, 1920. Serial No. 374,843. 3 Claims. (Cl. 192—55.)

1. In combination, a shaft, a sleeve rotatably and slidably surrounding it, having a driven stud, a helical driving spring loose on the shaft with one end fastened to the shaft and with its other end free and extending outward from the shaft in direction to engage and disengage freely a body rotating about the shaft's axis and means for



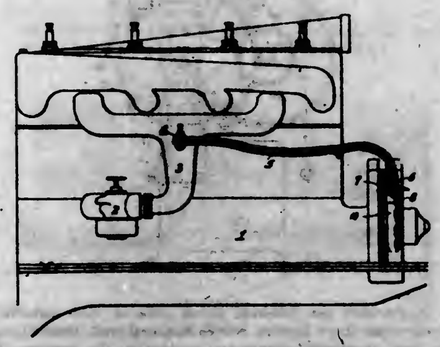
sliding the sleeve along the shaft to move the driving stud into and out of engagement with the free end of the spring.

1,421,566. MACHINE FOR MAKING SPRINGS. REESE D. REESE, Virginia, Minn. Filed Aug. 18, 1920. Serial No. 404,404. 4 Claims. (Cl. 153—64.)



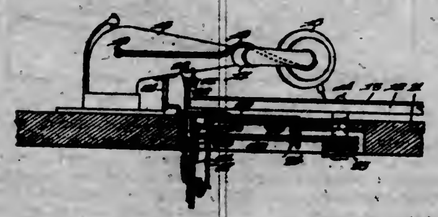
1. A machine of the character described comprising a base plate, a shaft journaled vertically in the said plate and provided at its lower end with a detachable crank, said shaft being forked at its upper end, a disk supported by the arms of the fork substantially parallel with the plate, said disk having a central opening, and a headed pin passing through the opening, said pin having a transverse slot below the plate, and a key engaging the slot, said disk having an annular series of openings near its periphery, and a pin for engaging one of the openings.

1,421,567. GASOLINE AND OIL SAVER. WILLIAM A. RICHEY and CLEM H. ROWLES, Akron, Ohio. Filed Feb. 28, 1921. Serial No. 448,668. 4 Claims. (Cl. 123—119.)



1. An automobile accessory comprising a flexible pipe, a stopcock secured to one end thereof and adapted to be screwed into the intake manifold of an automobile, and a substantially cylindrical cap secured to the other end of the pipe and adapted to be used either as a funnel or as a cap for the breather pipe of the automobile.

1,421,568. APPARATUS FOR RESETTING SOUND REPRODUCERS. JACOB J. RISER, Shelbyville, Ind. Filed Sept. 21, 1921. Serial No. 502,198. 8 Claims. (Cl. 274—15.)



1. The combination with a record holder and a reproducer arm that moves thereover, of a swinging support for moving the reproducer arm over the record holder, said support having a shiftable pivot axis, and means for effecting a shifting movement of the support and its pivot axis to engage the support with the arm and for effecting a swinging movement of the arm to move said arm over the support.

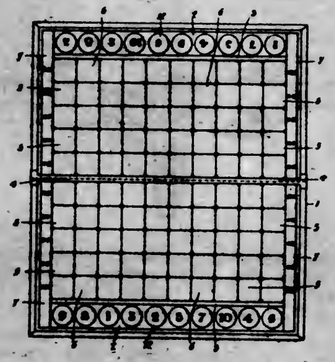
1,421,569. ARTICLE-FEEDING MACHINE. OSCAR N. RITCHIE, Hamilton, and HERMAN C. BOYKIN, Middletown, Ohio, assignors to P. Lorillard Company, New York, N. Y., a Corporation of New Jersey. Filed May 9, 1921. Serial No. 467,986. 10 Claims. (Cl. 271—50.)



1. In a machine for feeding articles, an endless conveyer provided with a plurality of spaced article engaging elements, feed wheels over which the conveyer is trained, movement of the conveyer being operative to feed the articles in a predetermined path, provisions arranged for receiving the articles from the conveyer to feed the same forward and means for first moving the conveyer in a direction to feed the articles in the said path and for then moving the conveyer in a given direction at an angle thereto to cause the conveyer and the article engaging elements thereon to drop or move below the said predetermined path before rounding a feed wheel, the change in the direction of movement taking place in a region spaced a prearranged distance from the said provisions.

1,421,570. GAME. ALBERT EDWARD DAY'S BAY ROD, Wellington, New Zealand. Filed Jan. 22, 1920. Serial No. 353,297. Renewed May 23, 1922. Serial No. 563,122. 3 Claims. (Cl. 46—64.)

2. Apparatus for playing a game, consisting of a board with parallel trenches at opposite sides, rows of squares parallel with each other and at right angles to the trenches and extending from one of the latter to the other; scoring numerals at the ends of the rows of squares parallel with the trenches, increasing in value from the



trenches towards the center of the board, and consecutively numbered men for moving on said board.

1,421,571. POWER-OPERATED CHURN. JOHN M. ROSENA, Chicago, Ill. Filed Oct. 3, 1919. Serial No. 328,145. 4 Claims. (Cl. 74—14.)

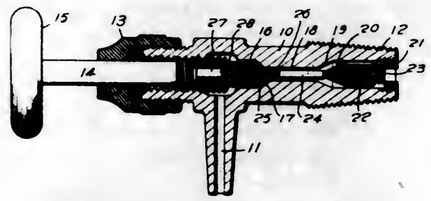


1. An agitating device of the character described comprising a base member, standards extending upwardly from said base member, a base plate supported by said standards, a motor secured to said base plate, a worm driven by said motor, a worm wheel meshing with said worm, a sector gear, a link connecting said worm wheel to said sector gear, a double pinion having two pinions of different diameters, the pinion of smaller diameter meshing with said sector gear, an operated member, and a rack carried by said operated member and meshing with the larger pinion of said double pinion.

1,421,572. VALVE FOR GAUGE COCKS. HENRY W. RYALLS, Thurmond, W. Va. Filed Oct. 11, 1920. Serial No. 416,266. 2 Claims. (Cl. 277—37.)

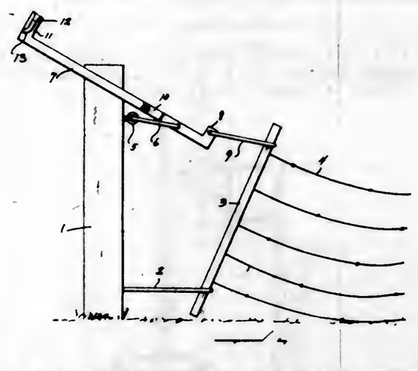
1. A gauge cock having two valves, one being hand movable to its seat and the other being a check valve, the latter consisting of a solid block with a cylindrical portion and a conical end, a groove or grooves extending along the cylindrical portion and opening to the conical

end, and a stem carried by the hand seated valve unconnected with but reaching to said check valve and adapted to engage the small end of the check valve, said



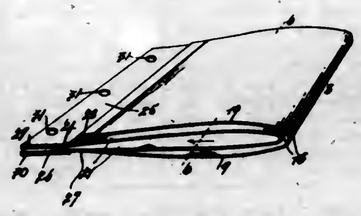
stem being longitudinally adjustable to compensate for changes in the distances between the valve seats from grinding.

1,421,573. GATE FASTENER. HENRY H. SCHAEFER, Weldona, Colo. Filed July 23, 1921. Serial No. 487,040. 5 Claims. (Cl. 292—247.)



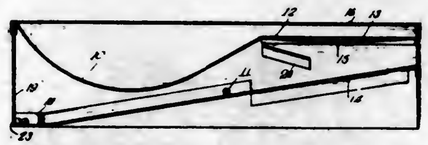
1. In a wire gate fastener, the combination with a support, of a securing member adjustably attached to the support, a locking lever, a link pivotally connected intermediate the ends of the locking lever and pivoted to the securing member to swing about the member as a vertical axis, and a link arranged for connection between a part on the gate and one end of the lever.

1,421,574. DISPLAY BOOK. MORRIS SCHLOSSER, New York, N. Y. Filed Sept. 15, 1921. Serial No. 500,887. 3 Claims. (Cl. 129—20.)



2. A page for a display book consisting of a sheet of suitable material folded over to form pockets, and a fastening element secured to outermost members of each pocket portion at the free ends thereof, the free ends of the innermost members of the pocket portions being unsecured.

1,421,575. GAME. EDWARD F. SCHMIDT, Chicago, Ill. Filed Dec. 20, 1919. Serial No. 346,293. 6 Claims. (Cl. 46—61.)



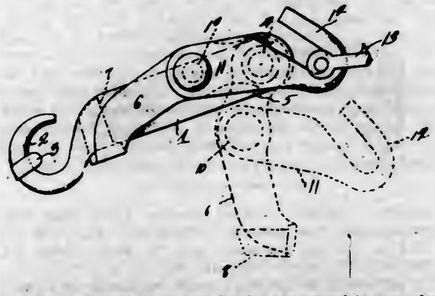
1. A game comprising a rollable object, and a floor for said object to roll on comprising a portion inclining downwardly from the starting point, a second portion inclining upwardly therefrom, and a third substantially horizontal portion onto which said object rolls, said third portion being dished, and provided with a plurality of openings into which said object may roll, whereby said object will roll down said first portion, up said second portion, and around on said horizontal portion until it falls into one of said openings.

1,421,576. COMPRESSED-AIR RECUPERATOR FOR GUNS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Dec. 28, 1920. Serial No. 433,660. 11 Claims. (Cl. 89—43.)



1. In a recuperator for guns having a stationary part and a movable part, a reservoir attached to one of said parts, a hollow rod attached to the other of said parts and extending within said reservoir, said hollow rod having communication with said reservoir and being adapted to receive a fluid under compression, and means confining the fluid between the inner surface of the reservoir and the wall of said hollow rod, said means comprising a pair of packing members slidably mounted in spaced relation on said rod, one of the packing members being movable with said rod to compress the fluid on rearward movement of the gun and the other packing member being movable with said rod to compress the fluid on forward movement of the gun.

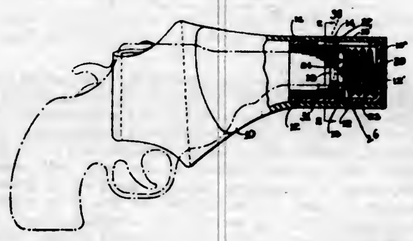
1,421,577. AUTOMOBILE TIRE-CHAIN HOOK. HARRY SCHUCHMAN, Little York, Ill. Filed Mar. 22, 1921. Serial No. 454,464. 1 Claim. (Cl. 24—68.)



A chain securing hook and take up comprising an elongated member having a hook at one of its ends, an operating lever pivoted to the other end of said elongated

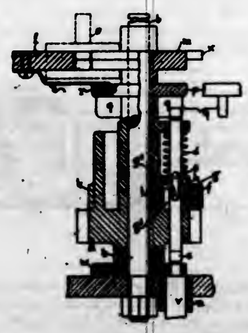
member, a chain receiving hook pivoted to the operating lever at a point spaced from its ends, the free end of said operating lever being provided with an offset arm adapted to receive the elongated member, the operating lever having its inner face provided with a compound curve, the convexed portion of which is disposed adjacent the offset arm of the operating lever and forming means for frictionally engaging the side of the elongated member and holding the operating lever frictionally against displacement.

1,421,578. SAFETY REVOLVER HOLSTER. JOSEPH SCHUSSLER, Bethlehem, Pa. Filed Mar. 25, 1921. Serial No. 455,447. 5 Claims. (Cl. 224—1.)



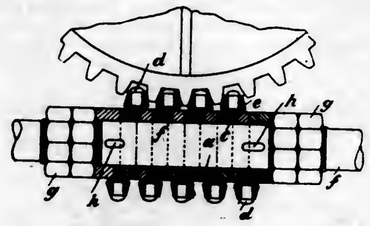
1. In a pistol holster, a locking member adapted to engage the forward sight member of the pistol, and resilient means holding said locking member in engagement with said sight member.

1,421,579. BOBBINET-MAKING MACHINE. OTHMAR SHEBERGER, Brugg, Switzerland. Filed Apr. 13, 1921. Serial No. 460,884. 3 Claims. (Cl. 96—11.)



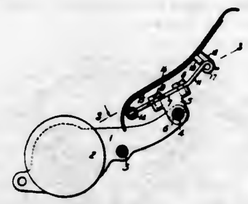
1. A bobbinet making machine of the kind described, comprising a stationary stem, a drive wheel rotatably mounted on said stationary stem, a clutch pin axially slidable in the drive wheel and turning with the same, a pattern mechanism to control the upward movement of the clutch pin, a spring to control the downward movement of the clutch pin, a spring pressed bar radially slidable in the drive wheel and capable of locking the clutch pin in the raised position and of being locked in the inner position by the clutch pin, a projection provided on the drive wheel diametrically opposite the bar, a disc adapted to rotate freely around the said stem and having recesses forming noses to drive the bobbins and having also two diametrically opposite radially extending lugs capable of being engaged by the clutch pin and means for accurately and yieldingly stopping the disc.

1,421,580. WORM FOR WORM GEARINGS. HENRY SEEMANN, Hamburg, Germany. Filed Sept. 3, 1921. Serial No. 498,468. 3 Claims. (Cl. 74—36.)



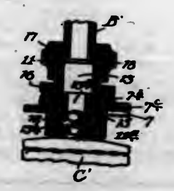
1. A worm for worm gearings, comprising rollers arranged in rows forming the screw threads of the worm, studs forming the pivot pins for the rollers, a series of rings on the shaft of the worm, each ring provided with recesses, each recess registering with a recess of the next following ring to form a circular hole, the pivot studs of the rollers screwed into these holes.

1,421,581. TYPEWRITING MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Dec. 10, 1921. Serial No. 521,411. 11 Claims. (Cl. 197—143.)



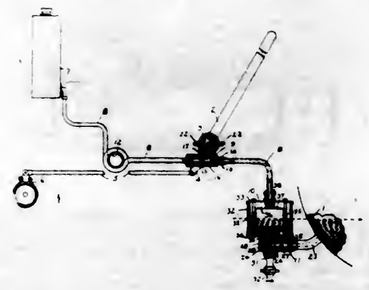
1. In a typewriting machine, the combination of a carriage, a paper table, and means for detachably connecting the paper table to the carriage, said means comprising a hand released pivoted member which in one pivotal position connects the paper table to its support and in another pivotal position releases the paper table for detachment.

1,421,582. LUBRICATING DEVICE. WENDELIN P. SENO, Chicago, Ill. Filed Dec. 13, 1918. Serial No. 266,575. 12 Claims. (Cl. 137—104.)



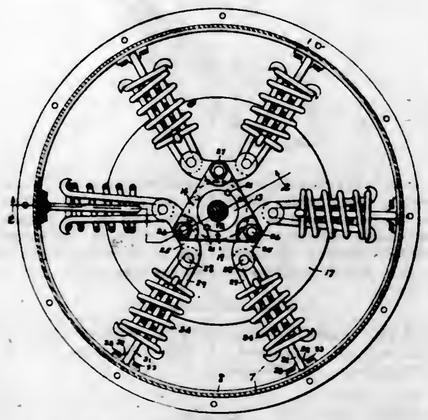
1. In means of the character set forth, the combination of a source of fluid supply, a float-chamber, a conduit from said source of supply, a valve-housing with which said conduit communicates, said valve-housing having a cylindrical passage opening toward the float-chamber, a float fitting loosely in said float-chamber, a spherical headed piston-valve operated by said float and working in closing contact in said cylindrical passage, a chamber wherein a working level of fluid is to be maintained, and a discharge-conduit for conducting fluid from the float-chamber to said last-named chamber.

1,421,583. OILING DEVICE. WENDELIN P. SENG, Chicago, Ill. Filed Oct. 10, 1919, Serial No. 329,836. Renewed Nov. 25, 1921. Serial No. 517,811. 13 Claims. (Cl. 184—103.)



3. The combination with an engine having an oil containing crank case, of a float controlled feed therefor, and means intermediate the feed and the crank case for automatically shutting off the oil feed flow therein when the engine is inclined in either direction from its normal horizontal position.

1,421,584. RESILIENT WHEEL. HOMER R. SHAFER, Detroit, Mich. Filed Jan. 19, 1921. Serial No. 438,314. 4 Claims. (Cl. 152—44.)

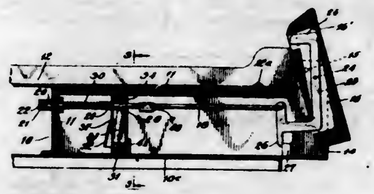


1. In a resilient wheel, the combination of a hub member, a series of equally spaced pins mounted on the hub member parallel to the axis thereof, a lever mounted on each pin, an outer cylindrical portion of the wheel, and resilient tension members extending in the same plane from both ends of the levers at equal distances from the pivots thereof radially to the outer cylindrical portion.

1,421,585. CONCENTRATION OF ORES BY FLOTATION. GUY E. SHERIDAN and GEORGE G. GRISWOLD, Jr., Butte, Mont. Filed Jan. 13, 1921. Serial No. 437,030. 21 Claims. (Cl. 83—85.)

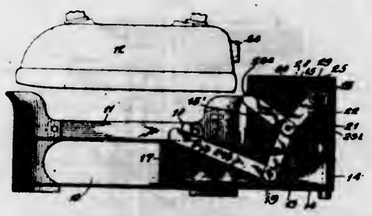
1. A process of concentrating by flotation an ore containing lead sulfide and one or more other metallic sulfides including iron sulfide which comprises treating the ore with a cyanide and an alkaline salt, and subjecting the thus treated ore to a flotation operation whereby the lead sulfide is in large part recovered in the resulting froth and the flotation of the iron sulfide is in large part inhibited.

1,421,586. STAND AND AUTOMATIC SWITCH FOR ELECTRIC IRONS. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed Jan. 28, 1920. Serial No. 354,616. 11 Claims. (Cl. 219—25.)



1. In combination with an electric sad iron having contacts thereon, an electric heating stand having electrical contact members for said contacts, and means adapted to be operated by the iron when being placed in position on the stand to connect said contact members to the electric supply and to said contacts on the iron, said means comprising a conducting member carrying a contact member, a circuit making member for the latter pivoted below said conducting member and a spring member secured at one end to said circuit making member below the pivotal center thereof and at the other end to said conducting member, whereby a lateral displacement of said conducting member snaps said circuit making member into and out of contact with said contact member on said conducting member.

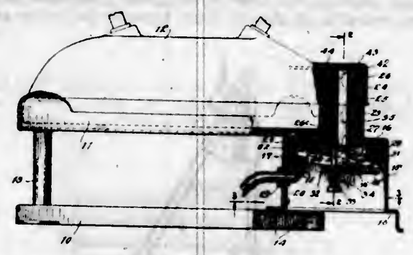
1,421,587. ELECTRIC PRESS IRON. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed Mar. 6, 1920. Serial No. 363,913. 3 Claims. (Cl. 219—25.)



1. In an electric heating stand for sad irons and the like, a support for the iron, an actuating member extending normally above the surface of said support, said actuating member adapted to be adjusted to be operated by different weights of iron when placed in position on the support, a contact making arm, means for transmitting motion from said actuating member to said contact making arm whereby the latter connects the electric circuit to the iron, and means for normally maintaining said actuating arm above the support in position to be operated by the iron.

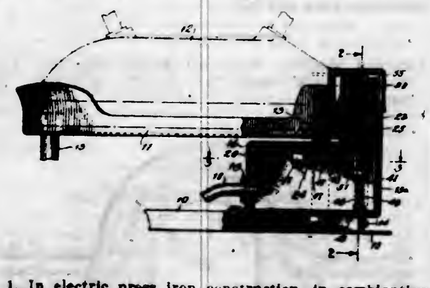
1,421,588. ELECTRIC PRESS IRON. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed Apr. 1, 1920. Serial No. 370,496. 5 Claims. (Cl. 219—25.)

1. In an electric heating stand for electric irons and the like apparatus, an automatic switch for connecting the electric supply to the iron comprising a pair of contact members connected to the electric supply, a pair of switch members, actuating means for said switch members adapted to electrically connect the same to said contact mem-



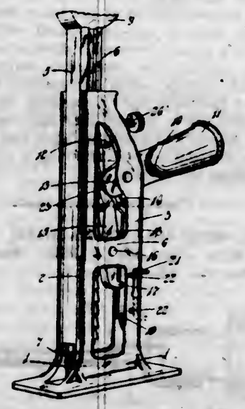
bers, and means for preventing the operation of one of said switch members independently of the other.

1,421,589. ELECTRIC PRESS IRON. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed May 4, 1920. Serial No. 378,750. 18 Claims. (Cl. 219—25.)



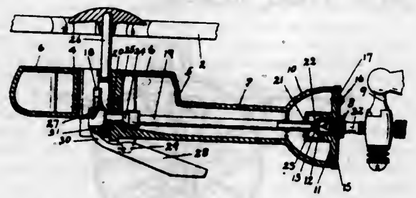
1. In electric press iron construction, in combination, an iron, a stand, means adapted to lead current from said stand to said iron, comprising a contact member on said iron and a co-acting contact on said stand adapted to embrace and resiliently grip said first contact.

1,421,590. LIFTING JACK. ALBERT SHRIEVES and HENRY EDWIN SHRIEVES, Sutton Coldfield, England. Filed June 4, 1920. Serial No. 386,422. 1 Claim. (Cl. 254—111.)



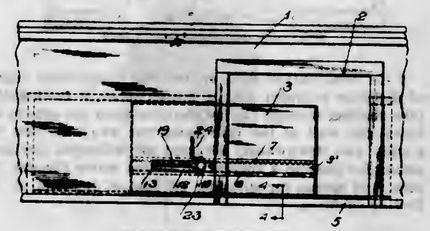
In a lifting jack, a frame, a rack vertically movable therein, a lever pivotally mounted in the frame, a pawl for engaging the rack and pivotally connected to said lever, a second pawl below the lever, for engaging the rack, means coacting with said lever to operate said second pawl, and an adjustable abutment member mounted in the frame and arranged for engagement with and disengagement from the first named pawl, to cause the said pawl to engage the rack earlier in the operative movement or to take up wear in the parts, and to also enable the jack to be locked in any position.

1,421,591. GAS BURNER. EDWIN H. SHULER, Lansing, and MAX C. SHULER, Charlotte, Mich. Filed Aug. 11, 1921. Serial No. 491,536. 8 Claims. (Cl. 126—52.)



1. In a structure of the class described, the combination of a grid, a main burner disposed below the grid and provided with a Bunsen tube and a nozzle delivering thereto having a valve seat at its inner end, a pilot burner operatively associated with said main burner, a pilot burner supply tube carrying said pilot burner and mounted to reciprocate longitudinally in said Bunsen tube and through the wall at the inner end thereof, said supply tube being provided with a packing valve coacting with a seat in the wall surrounding the tube, and with a nozzle valve at its outer end coacting with the valve seat in said nozzle to control the delivery of gas to the main burner and an inlet opening registering with the nozzle opening when said nozzle valve is closed permitting the passage of gas to the pilot burner, a valve actuating member mounted on said burner to reciprocate vertically and adapted to be actuated by an object placed on said grid, a link connecting said valve actuating member to said pilot burner, and a weight pivotally mounted on said main burner for returning said valve actuating member to its initial position and provided with an arm engaging the pilot burner when the said actuating member is in its normal position whereby said nozzle valve is held in its seat by said weight.

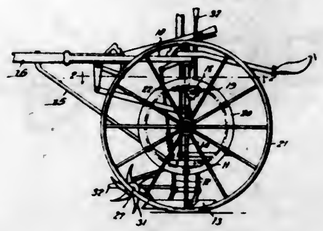
1,421,592. GRAIN-CAR DOOR. JURGEN SIEMSEN, Broken Bow, Nebr., assignor to Berton C. Empfield, Broken Bow, Nebr. Filed Nov. 17, 1921. Serial No. 515,891. 4 Claims. (Cl. 265—7.)



1. A car having a doorway, a door slidable into and out of position for closing the doorway, actuating means for the door including a bracket carried by the wall of the car and having an outstanding arm, a rotatable shaft extending through the wall of the car, a turning and locking bar loosely mounted upon said shaft and movable longitudinally thereof from a position permitting free swinging of the bar upon the shaft to a position causing rotation of the

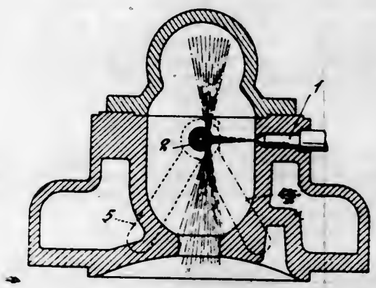
shaft when the bar is swung, the bar when in the first position being movable longitudinally of itself to bring its free end into and out of engagement with the outstanding arm of the bracket, the bar when engaged with the outstanding arm being held against swinging movement upon the shaft, and means for releasably holding the bar in the second mentioned position upon the shaft to hold the shaft against turning when the bar is in engagement with the arm of the bracket.

1,421,593. CULTIVATOR ATTACHMENT. MILFORD R. SIMS, Saunemin, Ill. Filed May 1, 1920. Serial No. 378,140. 2 Claims. (Cl. 55—64.)



1. A weed destroying attachment for a surface cultivator including earth working elements for lifting weeds, stationary cutting elements adjacent the earth working elements, and rotary cutting elements cooperating with the stationary cutting elements and mounted to initially lift the weeds from the earth working elements to the stationary cutting elements to sever the same.

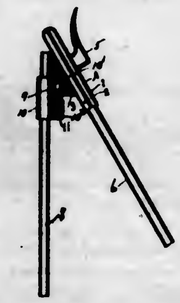
1,421,594. INTERNAL-COMBUSTION ENGINE. ANTON IVERSEN SLETTEN, Christiania, Norway. Filed June 16, 1920. Serial No. 389,354. 2 Claims. (Cl. 123—32.)



1. In combination with an internal combustion engine of the type provided with a hot chamber, a thick-walled tube running through the hot chamber from one side to the other, the wall of the tube being cut away to form upwardly and downwardly directed oil deflecting surfaces, means for passing a current of cooling water through the tube, and means for spraying oil against the said oil deflecting surfaces.

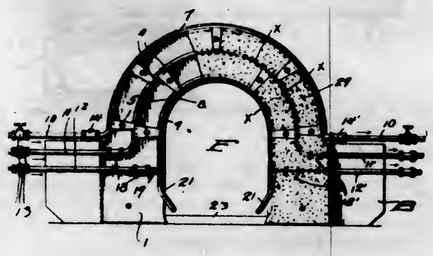
1,421,595. EASEL FOR FLORISTS' USE. CHARLES SMITH, Providence, R. I. Filed Mar. 11, 1922. Serial No. 543,041. 7 Claims. (Cl. 248—41.)

5. In an easel the combination of a clamping member pierced in its lower portion and having at its inner edge a lateral extension and a laterally directed threaded shank, a nut engaging said shank, a holder for one leg of the easel the same consisting of a tubular body open at one side throughout its length, and having laterally extending wings disposed on each side of said opening and spaced a distance apart laterally and longitudinally, said wings pierced, a bolt engaging the pierced upper wings of the holder and



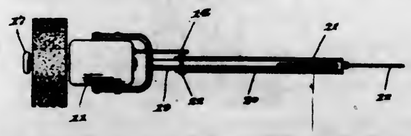
the pierced lower portion of the clamping member to thereby form a hinge pivot, an easel leg held in said holder and means engaging said pierced lower wings to thereby clamp said holder upon said leg.

1,421,596. CHILL. WILLIAM I. SMITH, Gary, Ind. Filed Dec. 10, 1918. Serial No. 266,079. 1 Claim. (Cl. 122—65.)



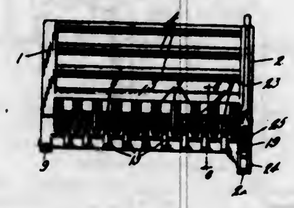
In a furnace of the character described, the combination with an arched hearth wall having a flue, an inner face fixed to the outer face of said wall, a curved tube pipe skirting the extreme inner and outer edges of said plate, a curved tube pipe and a plurality of radially disposed spacing blocks between the outer and inner chill pipe for maintaining the same in parallel, spaced relation, said inner pipe having a lateral, outwardly directed extension at each end and a straight pipe connection continuing from each of said ends and extending horizontally within said flue, supply and discharge pipes connecting the ends of the respective chill pipes, an auxiliary pipe cooling section between the supply and discharge pipes and valve controlled means for introducing and receiving a continuous flow of water through the system.

1,421,597. SHOE-SHINING MACHINE. JAMES SMYTHE, Dines, Wyo. Filed Jan. 5, 1921. Serial No. 435,137. 1 Claim. (Cl. 15—36.)



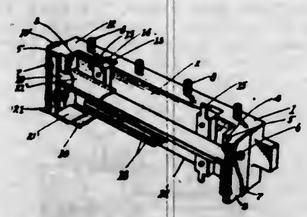
In a shoe polishing machine, a motor, a rod secured to said motor, a connector rod, the first mentioned rod being pivoted to said connector rod inwardly from one of its ends, said connector rod being arcuate in cross section to receive and accommodate the first mentioned rod when in one position, and a shoe cleaner operated by said motor.

1,421,598. SHAKER GRATE. SAMUEL H. SORRELL, Ashland, Ala. Filed Apr. 13, 1921. Serial No. 460,917. 3 Claims. (Cl. 126—173.)



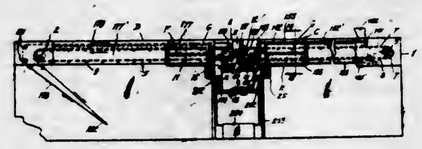
1. In a device of the class described, a frame embodying front posts, a front bar connecting the posts, a back piece, and grate bars connecting the front bar with the back piece; a shaft mounted to rock on the back piece; fingers carried by the shaft and located between the grate bars; a lever mounted to swing on one post; and a link forming a connection between the lever and the shaft, the said post having an opening for the reception of the link.

1,421,599. WOODWORKING TOOL. SIGVARD SORENSON, St. Paul, Minn., assignor of one-half to Arie Vollegraaf, St. Paul, Minn. Filed Oct. 24, 1921. Serial No. 510,001. 2 Claims. (Cl. 145—31.)



2. In a wood working tool of the class described, the combination, a long stock recessed intermediate its ends to form transverse parallel end walls, a groove parallel with the bottom of said recess, in the inner vertical face of each of said end walls adjacent the outer edge thereof, a plurality of spreader bars adapted to be superposed upon one another, fitting slidably endwise between said end walls and extending slidably into said grooves, so as to be flush with the outer edges of said walls, a plate extending between said end walls, so as to form a wall on one side of salid recess, a detachable plate similar to said first named plate forming a wall on the opposite side of said recess, clamping means for detachably clamping said last named plate to said stock, and saw blades superposed in alternate order with said spreader bars, the teeth thereof projecting beyond the outer edge of the latter, said blades extending between said end walls, so that they may be inserted, from a position in front of said spreader bars, sidewise between said walls, and edgewise between said spreader bars, said superposed spreader bars and saw blades extending when assembled, into contact with said last named plate, to be clamped together, thereby, in the process of clamping said plate to said stock.

1,421,600. METHOD OF MAKING CONFECTIONS. CLIFFORD P. SPECK, Oakland, Calif. Filed May 17, 1920. Serial No. 381,848. 5 Claims. (Cl. 107—54.)



1. The method of making confections which consists in depositing a charge of confection forming material in a plastic condition into a mold through an opening therein, then forming a shell thereof having an open end, by forcibly distributing the plastic material over the inner wall of the mold by injecting an air blast into the mold through its opening, then supplying the formed shell through the opening therein with a charge of filling material, then closing the opening in the shell forming material and causing the same to unite with the edges of the shell opening, and then discharging the formed confection from the mold through the opening through which the material was supplied thereto.

1,421,601. CONFE. TION MOLD. CLIFFORD P. SPECK, Oakland, Calif. Filed June 21, 1921. Serial No. 479,208. 11 Claims. (Cl. 107—8.)



2. An expansible mold, comprising a cupped mold member consisting of a plurality of co-operating sections permanently associated together, a stem mounting said sections, a guide within which said stem is longitudinally movable, and means associated with said stem and guide for causing a separation of said mold sections on longitudinal movement being imparted to said stem in one direction.

1,421,602. KNITTED CAP. BENJAMIN SPECTOR and LOUIS E. ROSENBERG, Brooklyn, N. Y. Filed Dec. 23, 1920. Serial No. 432,668. 3 Claims. (Cl. 2—106.)



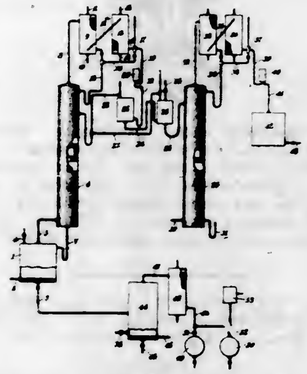
1. A knitted cap comprising a flat strip of fabric of herring-bone weave having pairs of oppositely inclined transverse areas interposed between single oppositely inclined transverse areas of greater longitudinal extent throughout the length of the strip, the ends of said strip and the irregular upper margin thereof being secured together to form the back and top of the cap.

1,421,603. MEANS FOR SUPPORTING SIGNS OR SIMILAR ARTICLES. HOWARD M. STANTON, Indianapolis, Ind. Filed Feb. 3, 1921. Serial No. 442,056. 6 Claims. (Cl. 40—125.)



1. The combination of a supported member having a pair of guide ways extended therethrough and at an angle to each other, and a pair of supporting legs projecting through said guide ways which guide ways permit only relative linear movement of the legs, said legs having their bottom ends imbedded in the ground and held by the ground against lateral and angular relative movement and in a desired spaced relationship, the vertical movement of said member on said legs in either direction being prevented solely by the angular spaced relationship of said legs maintained by the ground.

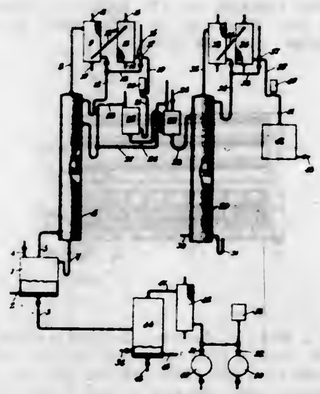
1,421,604. PROCESS FOR THE MANUFACTURE OF ESTERS. JOHN A. STEFFENS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 5, 1921. Serial No. 458,837. 25 Claims. (Cl. 260—106.)



14. The process which comprises esterifying an alcohol and an acid in the absence of a catalyst and in the presence of a third liquid miscible with the alcohol but substantially immiscible with water, while removing from the reaction mixture vapors of water, the alcohol and the third-liquid, rectifying said vapors, separating the condensate into two liquid layers, containing respectively high and low percentages of the third liquid, subjecting the liquid layer containing the low percentages of the third liquid to washing to remove said liquid therefrom, and rectifying the remaining liquid containing water and the alcohol.

1,421,605. PROCESS FOR MANUFACTURING ESTERS. JOHN A. STEFFENS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 5, 1921. Serial No. 458,838. 25 Claims. (Cl. 260—106.)

14. The process which comprises esterifying an alcohol and an acid with a catalyst in the presence of a third liquid miscible with the alcohol but substantially immiscible with water, while removing from the reaction mixture vapors of water, the alcohol and the third liquid, rectifying said vapors, separating the condensate into two liquid layers, containing respectively high and low percentages of the third liquid, subjecting the liquid layer containing the low percentage of the third liquid to washing to remove said liquid therefrom, and rectifying the remaining liquid containing water and the alcohol.



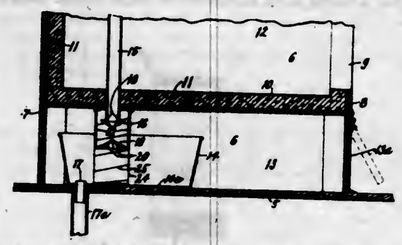
1,421,606. FUEL VAPORIZING AND ECONOMIZING APPARATUS. CECIL VINCENT STEVENSON, Sydney, New South Wales, Australia, assignor of five-eighths to Thomas Ernest Rofe, Sydney, New South Wales, Australia, and three-eighths to Sidney Le Fevre Varvel, Wahroonga, near Sydney, New South Wales, Australia. Filed Feb. 28, 1921. Serial No. 448,542. 12 Claims. (Cl 219—38.)



1. A vaporizing and fuel economizing apparatus for internal combustion engines comprising, an electrical resistance heating coil disposed in the path of the fuel charge, a gauze screen co-acting with said coil to radiate heat and further functioning to atomize the fuel and protect the vaporized fuel against contact with said coil, and means for admitting additional air and directing same over said coil to the fuel charge.

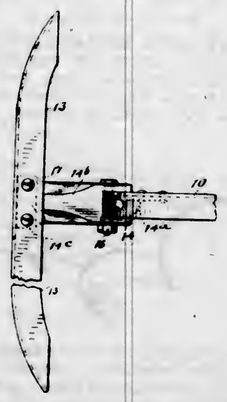
1,421,607. REFRIGERATOR ATTACHMENT. CARL F. STIEL, St. Paul, Minn. Filed July 25, 1921. Serial No. 487,561. 5 Claims. (Cl. 62—73.)

1. In a device of the class described, a longitudinally compressible tube of absorbent material, yieldable means within the tube for holding it expanded and normally in vertical position about the drip pipe of a refrigerator, with one end in contact with the under side of the bottom of the cooling chamber of the refrigerator and the other end resting upon the bottom of a drip pan below the drip



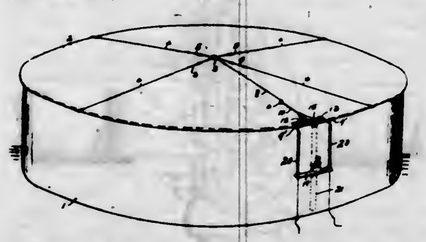
pipe, and means within the compressible tube for spreading the dripping water against the inner side of said tube, for the purpose set forth.

1,421,608. COMBINED SPRING HORN AND BUMPER SUPPORT. WILLIAM R. STRICKLAND, East Cleveland, Ohio, assignor to The Peerless Motor Car Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 10, 1921. Serial No. 443,812. 6 Claims. (Cl. 293—55.)



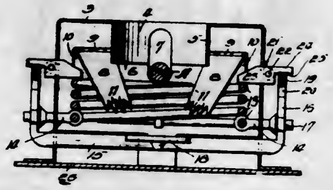
1. In an automobile having a chassis frame and front springs, a unitary combined spring horn and bumper support attached to the forward end of the chassis frame at each side, and having integral bumper supporting arms projecting forwardly from the frame, and a bumper attached to said arms.

1,421,609. MOVABLE PAINTER'S PLATFORM. EARL J. STURM and MORRIS SUENSON, Houston, Tex., assignors of one-third to A. M. Bowman, Houston, Tex. Filed Jan. 20, 1920. Serial No. 352,670. 2 Claims. (Cl. 304—17.)



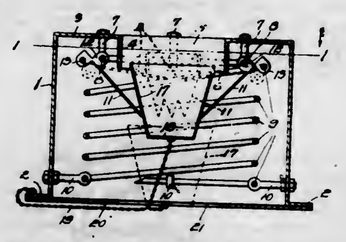
1. A device of the character described including a framework, composed of side members, carrier wheels upon which the framework is mounted, a laterally extending arm carried by the framework, an anti-friction roller carried by the free end of said arm, a stay rod, one end of which is attached to the free end of said arm, a spindle, cables for securing said spindle at the center of a circular roof, the other end of said rod being attached to said spindle said stay rod being adapted to retain said device in position to be supported by said carrier wheels engaging the margin of said roof, a platform, means suspending said platform from said framework through which the platform may be elevated and lowered and a mechanism through which one of said carrier wheels may be rotated to move said device around said margin.

1,421,610. GAME TRAP. MARTIN J. SVEHLA, Sutherland, Iowa. Filed Nov. 22, 1920. Serial No. 425,704. 4 Claims. (Cl. 43—88.)



1. In a trap of the class described, comprising a hollow case having a central opening in the top thereof, hinged jaw members arranged in opposed pairs having pronged inner ends, a coiled spring supported within the case, means for compressing the spring to permit setting of the jaw-members, means for holding the spring in its compressed position, and means adapted to be stepped upon by the foot of an animal for releasing the spring from its compressed position so that it will act against the jaw-members and close them in upon and firmly engage the leg of the trapped animal until released by the trapper.

1,421,611. GAME TRAP. MARTIN J. SVEHLA, Sutherland, Iowa. Filed Nov. 22, 1920. Serial No. 425,705. 3 Claims. (Cl. 43—88.)

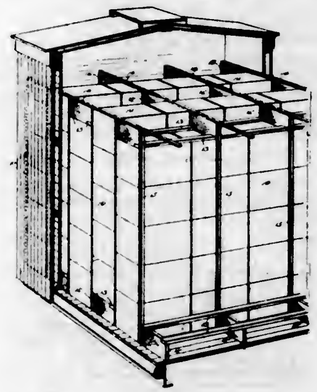


1. In a trap of the class described, comprising a hollow case having a central opening in the top thereof, hingedly supported jaw-members having pronged inner ends arranged in opposed pairs within the case, a plunger for setting and releasing the jaw-members, spring means acting upon the jaw-members after being released from engagement with the plunger, and means to limit the upward movement of the pronged ends of said jaw-members.

1,421,612. LOAD BRACING AND VENTILATING DEVICE FOR VEHICLES. GEORGE SYKES, San Francisco, Calif., assignor of one-half to Thomas B. Blackburn and one-half to Charles F. Potter, both of Los Angeles County, Calif. Filed Mar. 18, 1922. Serial No. 544,893. 8 Claims. (Cl. 105—373.)

1. The method of arranging fruits and other vegetable products in the natural state for shipment in vehicles,

which consists in dividing the load of crated goods in transverse load parts by light frame members and adding members for transmitting from each of said parts to the

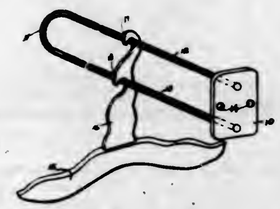


end portions of the vehicle strains longitudinal with respect to the latter, whereby each part is protected from force developed in other parts of the load.

1,421,613. PROCESS OF TREATING TEXTILE AND OTHER FABRICS, THREAD, YARN, AND THE LIKE. JOKICHI TAKAMINE, New York, N. Y., and JOKICHI TAKAMINE, Jr., Clifton, N. J. Filed Oct. 8, 1920. Serial No. 415,519. 11 Claims. (Cl. 8—2.)

1. The process of treating textiles for the removal therefrom of starches, gums and other substances, which comprises subjecting the textile to a bath containing proteolytic and diastatic enzymes, and permitting said enzymes to act on said substances to dissolve the same, and then washing the textile in water.

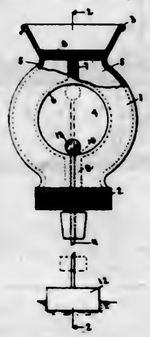
1,421,614. GARMENT HANGER. HERMAN TAUBMAN, Sturgeon Bay, Wis. Filed Sept. 27, 1920. Serial No. 412,992. Renewed May 19, 1922. Serial No. 562,267. 7 Claims. (Cl. 211—13.)



2. A hanger comprising a cross-bar of wood; and a hook member connected thereto by means of a barbed tongue and an auxiliary tongue on said hook member driven into the cross-bar, substantially as described.

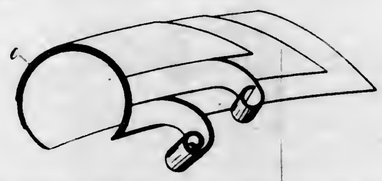
1,421,615. WATER GAUGE FOR AUTOMOBILE RADIATORS. THOMAS I. TAYLOR, Newton, Mass., assignor to Taylor Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed June 14, 1921. Serial No. 477,367. 6 Claims. (Cl. 73—82.)

1. A water level indicator comprising a member supportable from the filling opening of an automobile radiator and having an opening transversely therethrough, and also having a water passage in the wall bounding such opening, a float adapted to be supported by water in the radiator,



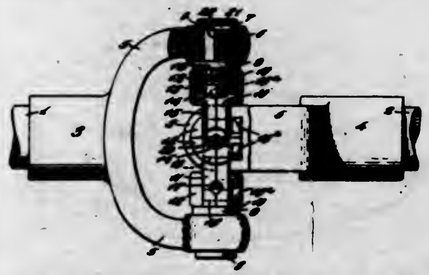
and an indicator exposed within the opening of said member in operative connection with said float to be raised and lowered by corresponding movements of the latter.

1,421,616. METHOD OF MAKING LINERS FOR REENFORCING THE COVERS OF PNEUMATIC TIRES. WILLIAM HENRY ALEXANDER THEED, South Kensington, and ARTHUR THOMAS PHILLIPS, Hammersmith, England. Filed June 3, 1920. Serial No. 386,384. 1 Claim. (Cl. 154—14.)



The process of making liners for reenforcing the covers of pneumatic tires from old or disused covers of such tires consisting in removing the beaded or thickened edges and the tread of the cover, cutting the foundation of the cover across so as to form an open ended band, and scarfing or stepping both the sides and the ends of the band by cutting and stripping successive layers of the fabric forming the foundation, substantially as herein described.

1,421,617. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 20, 1919. Serial No. 305,643. 3 Claims. (Cl. 64—102.)



3. In a universal joint, the combination of a pair of yokes each having arms provided each with a bore, a

trunnion mounted in each bore and having a pin or stud projecting inwardly therefrom, a two-part connecting member having bores provided between the two parts thereof adapted to receive said pins or studs, and means for securing together the two parts of said member and for preventing rotation of said pins or studs with respect to said connecting member.

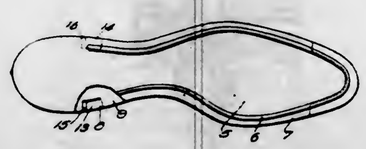
1,421,618. STRIP OR SHEET METAL STRUCTURE. ALBERT PETER THURSTON, London, England. Filed Jan. 6, 1920. Serial No. 349,788. 16 Claims. (Cl. 189—37.)



1. A strip or sheet metal structure of substantially I-girder section consisting of corrugated webs connected to corrugated flanges and hollow closed tubular portions connected and disposed along the edges of the flanges.

13. As an article of manufacture a strip or sheet metal structure of substantially I-girder section having longitudinal extending closed hollow portions on the flanges and on the web members.

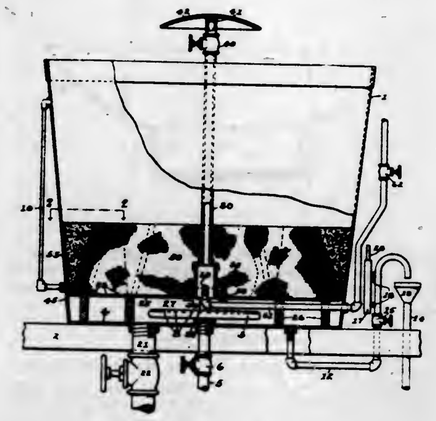
1,421,619. INSOLE. LAURENCE E. TOPHAM, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 14, 1918. Serial No. 249,857. 10 Claims. (Cl. 36—22.)



3. A manufactured insole comprising a layer provided with a marginal sewing-rib forming a sewing-surface, a sock-surface layer and a central body-layer, said body-layer being cut away at an end portion of the insole between the sewing-rib and the edge of the insole permitting the sewing-layer at this point to lie in contact with the sock-surface layer.

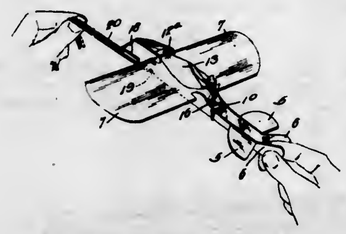
1,421,620. APPARATUS FOR THE EXTRACTION OF GLUE, GELATIN, AND THE LIKE. FREDERIC H. TUNNELL, Philadelphia, Pa. Filed Dec. 10, 1920. Serial No. 429,606. 2 Claims. (Cl. 87—7.)

1. An apparatus for the extraction of glue, gelatin and the like comprising an open tank having a perforated false floor spaced from the bottom and sides thereof, a standpipe extending from said floor to a point above the top of the tank and having openings and a deflecting means adjacent its upper extremity, means for withdrawing liquid from the tank, heating means between said false floor and the bottom of said tank, a screen disposed around the peripheral edge of the false floor and inwardly



inclined with respect thereto, and means adjacent the bottom of said standpipe adapted to direct a column of fluid upwardly therein.

1,421,621. TOY AEROPLANE. JOHN C. VAN ETTEN, Portland, Oreg. Filed May 24, 1920. Serial No. 383,717. 10 Claims. (Cl. 244—12.)

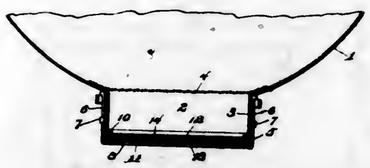


2. In a toy aeroplane, the combination of a fuselage, a wing or supporting surface at the forward portion of the fuselage and provided with a rearwardly projecting part extending between the walls of the fuselage, said part having its terminal portion bent upwardly to provide a pocket, means for securing the wing or supporting surface to the fuselage in the position named, and a parachute releasably secured on said supporting surface by said means, the parachute weight being supported in said pocket.

1,421,622. STRAINER FOR MILK CANS, PAILS, AND THE LIKE. NORMAN J. VAN NESS, Wysox Township, Bradford County, Pa. Filed Mar. 27, 1920. Serial No. 369,229. 1 Claim. (Cl. 210—158.)

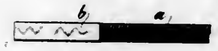
A filling funnel for milk cans having a discharge neck, a cap fitted upon the neck and formed with a discharge opening and an inturned horizontal flange surrounding said opening and underlying the edge of the neck, a strainer resting against said flange and composed of upper and lower layers of wire gauze, and an intermediate layer of absorbent cotton disposed therebetween, an elastic gasket sealing the joint between the side wall of

the cap and the edge of the neck, said gasket being of greater width than the thickness of the neck and being arranged in parallel relation to the flange of the cap and coextensive in width with said flange and disposed between



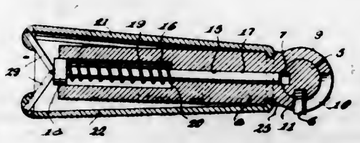
the edge of the neck and said strainer, and means connecting the cap with the neck whereby the strainer may be clamped with a variable yielding pressure between said flange of the cap and the gasket.

1,421,623. FLEXIBLE SHAFT AND METHOD OF MAKING SAME. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 16, 1921. Serial No. 445,333. 4 Claims. (Cl. 29—148.2.)



1. The improvement in the manufacture of coiled wire flexible shafts which consists in placing on the shafting a closely fitting tube and thereafter swaging the tube and the shafting to polygonal form.

1,421,624. SAFETY CRANK FOR INTERNAL-COMBUSTION MOTORS. SPENCER C. WAITS, Pine Bluff, Ark. Filed May 26, 1921. Serial No. 472,838. 5 Claims. (Cl. 74—33.)

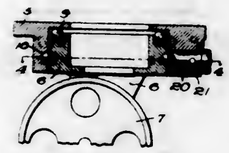


1. In a safety crank for internal combustion motors, a crank element, a handle having an eye rotatably mounted on the crank element, means for limiting the oscillatable movement of the handle on the said element, means for returning the handle to a normal position, hand engaging devices operated by pressure due to the grasping of the handle, a bolt for connecting the handle to the crank element, means for communicating the motion of the hand engaged portions of the said bolt, and means for retracting the bolt when the hand engaged elements are released.

1,421,625. PAINT AND PROCESS OF MAKING SAME. CLARENCE A. WARD, Brooklyn, N. Y. Filed Feb. 11, 1920. Serial No. 357,892. 4 Claims. (Cl. 134—39.)

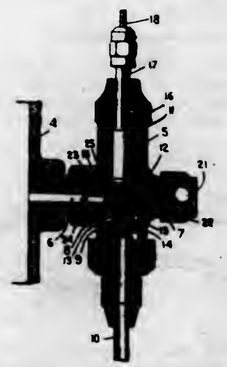
3. A paint comprising a vehicle, a pigment and a mixture of aluminum and zinc stearates intimately mixed with said pigment and suspended in the vehicle.

1,421,626. CASTER. AMOS W. WARNOCK, Everett, Mass., assignor to Economic Steel Rack Company, Everett, Mass., a corporation of Massachusetts. Filed Oct. 9, 1920. Serial No. 415,711. 5 Claims. (Cl. 16—21.)



4. A caster having a housing providing a recess therein, one side of a ball race in the housing adjacent said recess, a swivelling frame having a projecting portion loosely fitting said recess, the other side of said ball race in said projecting portion, and a series of balls in said ball race providing a lateral ball bearing, said housing and said frame also providing bearing surfaces for an annular thrust ball bearing, said thrust ball bearing of smaller effective diameter than said recess and said lateral ball bearing of substantially the same effective diameter as said recess.

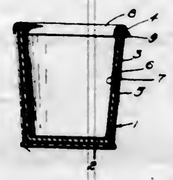
1,421,627. PRIMER FOR INTERNAL-COMBUSTION ENGINES. HAROLD D. WATERHOUSE, Quincy, Mass., assignor, by mesne assignments, to Walter S. Crane, Joshua Crane, and Frank V. Stone, trustees. Filed Dec. 17, 1917. Serial No. 207,592. 8 Claims. (Cl. 123—180.)



1. A primer for internal combustion engines comprising a valve device having an air passage which is contracted at some portion of its length and is adapted to be registered by operator controlled means with the intake pipe of the engine, a gasoline supply duct which is arranged to communicate with said contracted portion, said valve device constituting means to open and close said passage and duct.

1,421,628. SANITARY WASTE BASKET. DWIGHT EVERETT WATKINS, Galesburg, Ill. Filed Sept. 8, 1919. Serial No. 322,411. 2 Claims. (Cl. 220—65.)

1. A basket comprising a supporting frame, the sides thereof being formed of spaced rods, a waterproof receptacle detachably mounted within said frame and having the upper marginal edge thereof extending upwardly of the tops of said frame rods, a substantially U-shaped ring member adapted for detachable disposition over the upper marginal edge of said receptacle to overlap the same



adjacent the tops of said frame rods, said ring member having transversely spaced apertures therein, and flexible fastening members for engaging through the apertures in said ring member and about said frame rods for detachably holding said ring member in assembled relation upon the frame and receptacle of said basket.

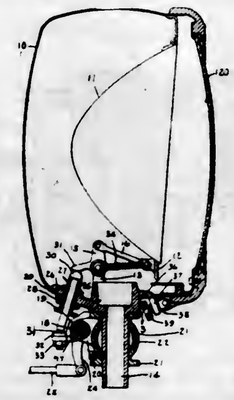
1,421,629. OIL PUMP. HERBERT H. WATKINS, Homer, La. Filed May 11, 1921. Serial No. 468,534. 2 Claims. (Cl. 103—80.)



1. In combination with an oil pump, a working barrel having an internally screw threaded portion, a hollow cylindrical standing valve casing provided with an externally screw threaded portion engageable with the screw threaded portion of the working barrel, a head for said standing valve casing, internal spring pressed catches carried by said head, and a traveling valve casing having a substantially U-shaped extension formed on its lower end receivable in said head and adapted to be engaged by said spring pressed catches, as and for the purpose set forth.

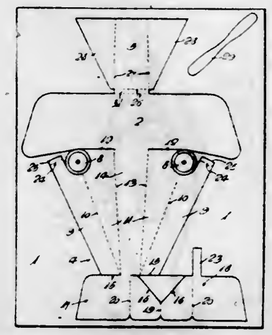
1,421,630. TILTING REFLECTOR FOR MOTOR VEHICLES. HARVEY L. WATSON, Indianapolis, Ind., assignor, by mesne assignments, to C. M. Hall Lamp Company, Detroit, Mich. Filed Feb. 24, 1920. Serial No. 360,579. 11 Claims. (Cl. 240—41.)

2. In a lamp construction, the combination of a lamp casing, a reflector pivotally supported therein, a bell crank pivotally supported in said casing, a link member operatively connecting one end of said bell crank and reflector for tilting the latter, spring means having one end associated with said operative connection for maintaining said reflector in one position, a sleeve mounted in said casing, a plunger extending through said casing and slidable longitudinally of said sleeve and therein and



limited in movement and engaging the other end of said bell crank, and lever means without the casing for actuating said plunger in opposition to said spring means.

1,421,631. TOY AEROPLANE. HARRY M. WATTS, Shawnee, Okla. Filed Mar. 17, 1921. Serial No. 452,905. 4 Claims. (Cl. 244—12.)

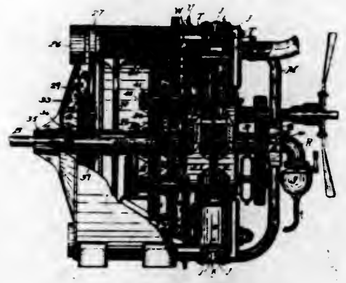


1. A toy aeroplane comprising a body portion, and an integral tail-forming strip extending transversely of the body at the rear end thereof and beyond the sides thereof and extending for the greater portion of its length beyond one side of the center of the body portion, the tail-forming strip being bent upwardly at a point intermediate the width of the body and then folded downwardly upon itself and having its free end portion bent to extend outwardly beyond the side of the body, the tail-forming strip when folded forming a horizontal stabilizer carrying an upwardly extending vertical stabilizer.

1,421,632. INTERNAL-COMBUSTION ENGINE. JOHN H. WEDIG, Granite City, Ill., assignor, by mesne assignments, to Sun Motors Corporation, Granite City, Ill., a Corporation of Illinois. Filed Apr. 29, 1918. Serial No. 231,352. 6 Claims. (Cl. 60—41.)

1. An internal combustion engine provided with bearings, a turbine shaft and a crank shaft mounted in said bearings, a turbine wheel mounted on its shaft, a train of wheel work connecting said turbine shaft and crank

shaft, a multiple number of cylinders radially disposed about said crank shaft and operatively connected thereto, a source of fuel supply connected to a central distributing drum, pipes connecting said drum to the respective cylinders, helicoidal spirals mounted at the inlet and outlet openings of said drum to give a whirling motion to the fuel charge being drawn into said cylinders successively, operative valves and means for ignition, all substantially as described.



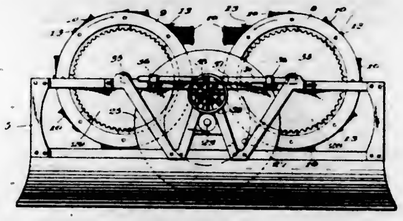
1,421,633. INCENSE BURNER AND PERFUMER. LOUIS WEIDLICH and ALFRED J. FLAUDER, Bridgeport, Conn., assignors to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 31, 1921. Serial No. 457,561. 2 Claims. (Cl. 219—41.)



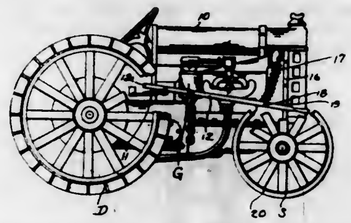
1. In a perfumer of the class described, the combination with a hollow receptacle, of a removable cover therefor having a lamp socket upon its inside and an electric wire connected through the cover to the socket, a hanger also secured to the cover, a liquid container removably supported in the hanger, an electric lamp supported in the socket and extended into the container to engage the liquid when carried therein.

1,421,634. ELECTRIC MOTOR. CORLISS L. WELTNER, Looneyville, W. Va. Filed June 21, 1921. Serial No. 479,357. 5 Claims. (Cl. 172—126.)

1. An electric motor comprising a pair of parallel shafts, wheels carried by said shafts and having their rims facing each other, electro-magnets carried by said wheel rims and having their poles so positioned that the poles of the magnets of one wheel face the pole of the magnets of the other wheel during that portion of the travel of the wheels when the magnets thereof are approaching each other, and means for energizing the magnets during the period they approach each other.

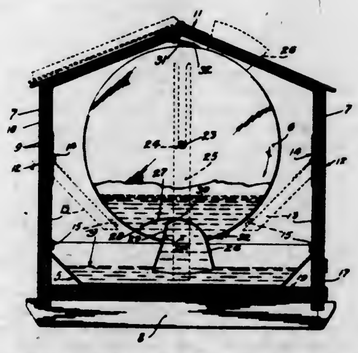


1,421,635. TRACTOR. ENOS WESTENBERGER, Laketon, Ind. Filed May 28, 1921. Serial No. 473,371. 4 Claims. (Cl. 180—82.)



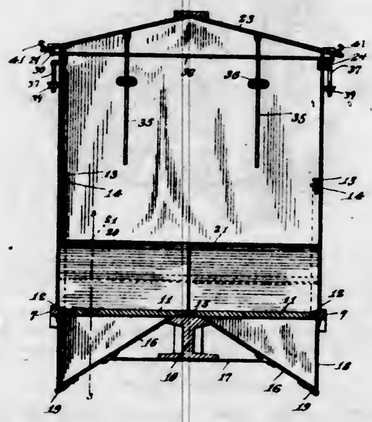
1. The combination with a tractor embodying the usual drive, rear power axle, clutch operating lever for connecting and disconnecting the drive to and from the power axle and front axle pivoted for oscillation, of a pivoted lever mounted at the side of the tractor and engaging said clutch at its rear end and adapted to shift the clutch to disconnect the drive from the power axle when the front end thereof is elevated, means tending to elevate the front end of the lever, means preventing such elevation, and means carried by the front axle and coacting with the lever to release the same from the last named means when the supporting wheels of the front axle are elevated from the ground.

1,421,636. STOCK WATERER. ADOLPH C. WESTBY, Porter, Minn. Filed Dec. 8, 1919. Serial No. 343,373. 3 Claims. (Cl. 119—77.)



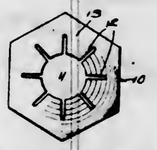
1. A stock waterer including a drinking trough, a reservoir mounted to turn from a filling to an emptying position and having a combined filling and discharge cup, the bottom of said cup being located within the reservoir and having an opening therein, and a guard arranged, when the reservoir is turned from a filling to an emptying position, to extend above the opening in the bottom of the cup and away from the same in the direction of the turning movement of the reservoir, from a filling to an emptying position.

1,421,637. FREIGHT CAR. MARTIN J. WHELAN, Clifton Heights, Pa. Filed Nov. 4, 1919. Serial No. 335,738. 6 Claims. (Cl. 105—377.)



1. The combination with a car and a one piece top therefor; of means cooperating with the top and car and forming a double hinge with the top whereby the top will open from eacher side of the car.

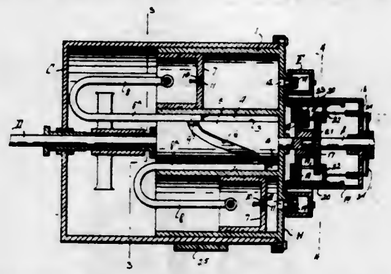
1,421,638. NUT. JOHN A. WHEELER, Bloomington, Calif., assignor of one-tenth to Eber M. Lash, Rialto, Calif. Filed May 14, 1921. Serial No. 469,487. 9 Claims. (Cl. 85—32.)



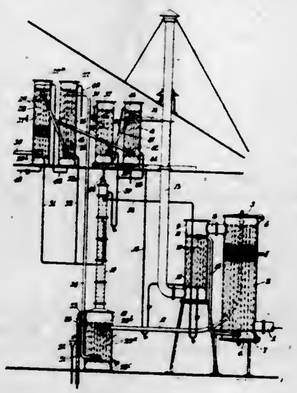
1. A nut concavo-convex in form, the central aperture of the nut being formed with a screw-thread, one of the faces of the thread throughout its length being approximately parallel to the outer face of the nut, the opposite face of the thread being outwardly inclined and toward the concave face of the nut.

1,421,639. SPEED-CHANGING MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed Feb. 24, 1920. Serial No. 360,955. 2 Claims. (Cl. 192—59.)

1. In a speed changing mechaniam, a driving shaft, a driven shaft, a connection between said driving shaft and driven shaft including a casing mounted upon the driving shaft, said driving shaft and casing being capable of independent relative movement, cylinders arranged within the casing and movable therewith, a chamber in communication with each of the cylinders and the casing, means carried by the driving shaft and positioned within the casing for imparting rectilinear movement to the pistons, each of said pistons being provided with a port affording communication within the cylinder at opposite sides of the piston, said casing, cylinders and chamber being adapted to contain a mobile medium and a single means interposed in the chamber and operating automatically to control the flow of the mobile medium through the chamber and the cylinders.

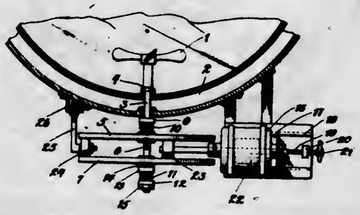


1,421,640. PROCESS OF PRODUCING ETHYLENE. MILTON C. WHITAKER, New York, N. Y., and ARTHUR A. BACKHAUS, Baltimore, Md., assignors to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed July 11, 1919. Serial No. 310,123. 4 Claims. (Cl. 260—170.)



1. The process of manufacturing ethylene from alcohol comprising preheating the alcohol to a temperature of from 300 to 500° C., and passing the resulting vapors of alcohol through a catalyzer maintained at a similar temperature in order to form ethylene.

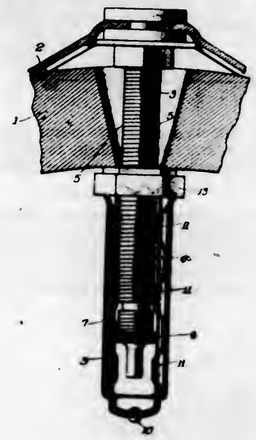
1,421,641. FRICTION DRIVE FOR MILK TANKS. GEORGE HALL WHITE, Washington, D. C., assignor to George P. Sacks, Bradley Hills, Md. Filed Sept. 9, 1921. Serial No. 499,502. 5 Claims. (Cl. 74—26.)



1. A friction drive having a shaft, opposing friction discs mounted thereon, a driving element cooperating with

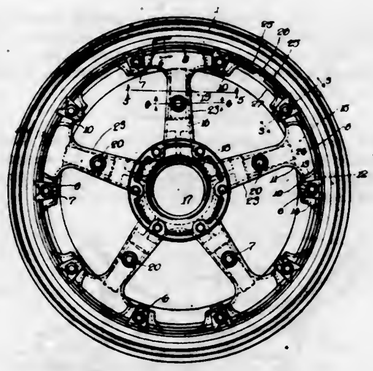
said discs, and means to adjust the pressure of said discs independently with respect to the element without inducing a corresponding endwise pressure of the shaft.

1,421,642. QUICK-DETACHABLE DUST CAP FOR PNEUMATIC TIRES. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed July 6, 1920. Serial No. 394,153. 4 Claims. (Cl. 152—12.)



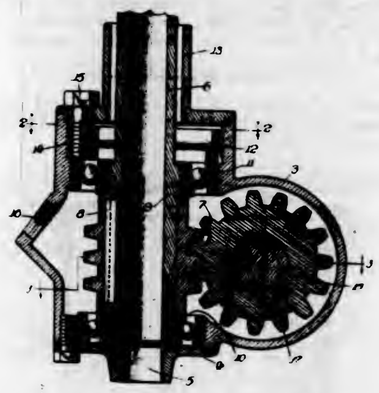
1. A tubular dust cap having a short section provided with internal mutilated threads and with a stem-pressing spring fixed to the cap, lying in a non-threaded portion thereof and normally projecting within the circle of the threaded portion of a valve stem upon which it may be placed.

1,421,643. CAST WHEEL FOR AUTOMOBILES. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed July 9, 1920. Serial No. 394,996. 5 Claims. (Cl. 301—65.)



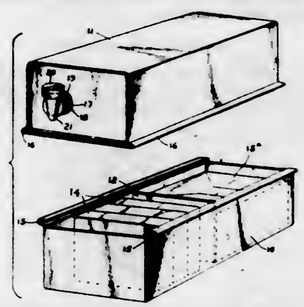
3. The combination with a flat rim-receiving felloe member carried inward at intervals to form peripheral recesses, of spokes terminally secured on each side to the adjacent inwardly carried portions of the felloe.

1,421,644. BEARING ASSEMBLY. CHILDE HAROLD WILLS, Marysville, Mich. Filed Nov. 6, 1920. Serial No. 422,158. 7 Claims. (Cl. 74—79.)



1. In a bearing housing, a shaft passing into said housing and a thrust bearing associated with said shaft, a removable member secured to the housing adapted to retain the bearing in an adjusted position, and means whereby the removable member may be removed and returned, the means being adapted to stop the return at the adjusted position.

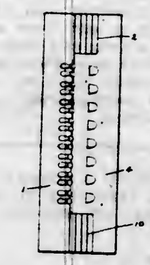
1,421,645. TOILET CASE. DONALD STUART WILSON, Greenwich, Conn. Filed Jan. 4, 1921. Serial No. 434,873. 1 Claim. (Cl. 220—20.)



In a toilet case of the character described, the combination of a container having one end open and including parallel oppositely disposed grooves defining two edges of the open end, and an enclosed container having a restricted outlet at one end and provided with parallel flanges projecting outwardly from opposite corners and extending the maximum length of said enclosed container and adapted to slidably engage in the grooves of said first named container, whereby relative movement of the two elements will either expose or enclose the open end of said first named container.

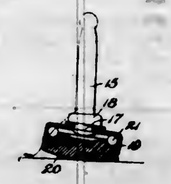
1,421,646. SHOE-SHINING PARLOR. DANIEL D. WOLFE, Washington, D. C., assignor of one-half to Harry Cohen, Washington, D. C. Filed Mar. 8, 1921. Serial No. 450,713. 11 Claims. (Cl. 20—1.)

9. A shoe shining parlor comprising an elevated platform, chairs and foot-rests on said platform, a passageway on said platform behind said chairs, an entrance stairway leading to said passageway at one end thereof,



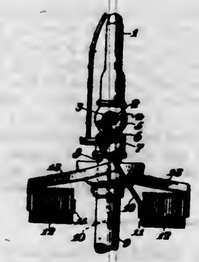
and an exit stairway leading from said passageway at the opposite end thereof.

1,421,647. CASTER. JEAN F. WOLFS, Newark, N. J. Filed Oct. 11, 1921. Serial No. 507,104. 5 Claims. (Cl. 16—42.)



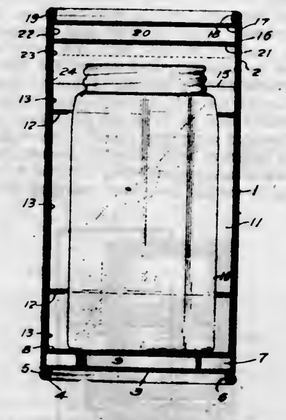
4. A caster comprising a rotatable element of substantially flat form with a rounded face, and rotatable means for securing the rotatable element to the leg of a piece of furniture so that the element rotates in a plane slightly inclined relative to the horizontal, and the axis of rotation of the element is eccentric to the axis of rotation of said means.

1,421,648. ELECTRICALLY-OPERATED VALVE OF A GAS BURNER OR GAS SUPPLY. JULIUS WOLFSON, Philadelphia, Pa. Filed Jan. 29, 1919. Serial No. 273,743. 1 Claim. (Cl. 137—139.)



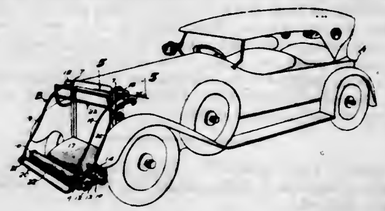
A rotary gas valve of the character stated comprising oscillatory gears one connected with each end of the plug of the valve, pivotally mounted gears meshing therewith, a support attachable to the supply pipe, horizontal magnets supported thereby, armatures for said magnets movable with the last-named gears and means carrying said armatures and connected with said last-named gears, said means being extended in substantially opposite directions and the magnets being disposed upon opposite sides of the supply pipe.

1,421,649. INSULATING CONTAINER AND THE LIKE. WILBUR L. WRIGHT, Fulton, N. Y., assignor to Sealright Co., Inc., Fulton, N. Y., a Corporation of New York. Filed Oct. 20, 1919. Serial No. 331,796. 15 Claims. (Cl. 229—45.)



1. The combination with a storage receptacle, of a container therefor having false ends spaced from its outer ends and internal spacing members for positioning said receptacle out of contact with the walls of said container, said receptacle being of less height than the space between said false ends, and of less cross-sectional area than the space within said spacing members.

1,421,650. LIFE-SAVING FENDER. JOSEPH E. WYCKOFF, Los Angeles, Calif., assignor of one-half to David B. Wyckoff, Glendale, Calif. Filed Dec. 27, 1921. Serial No. 524,889. 5 Claims. (Cl. 293—15.)

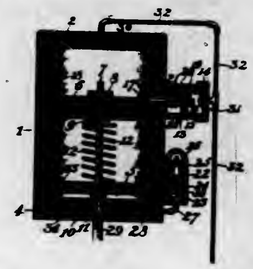


1. In combination with a vehicle, a device of the character described comprising a flexible curtain, means to secure said curtain to the front of the vehicle adjacent the ground, said means being arranged to hold said curtain folded, and means operated by collision of a person with the front of a vehicle to draw said curtain across the front of the vehicle to prevent said person from being projected forwardly.

1,421,651. AIR-BRAKE PRESSURE RETAINER. ABRAHAM YOUNG, Montevideo, Minn. Filed Oct. 23, 1920. Serial No. 418,952. 13 Claims. (Cl. 303—77.)

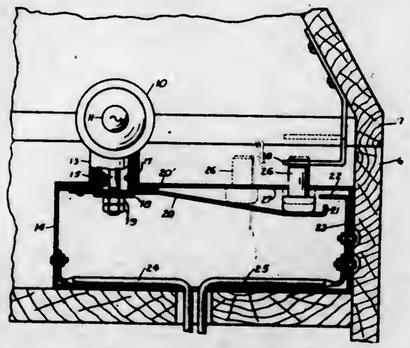
1. The combination with an air brake having an exhaust port, of a primary and a secondary closure for sad port, the secondary closure being operated in one direction by air pressure and in the opposite direction by spring pressure; means under the control of the operator for operating said secondary closure independently of the primary closure, whereby the escape of air from said exhaust port may be prevented when the primary closure is open; and means interposed between said closures for the escape of air above a given pressure.

5. A pressure retainer for air brakes, comprising a retainer cylinder having a chamber therein in communication with the outer air; a passageway leading from the exhaust port of the air brake into said chamber; a valve for controlling the passage of air through said passageway; a piston in said chamber connected with said valve and movable back and forth to open and close the valve; a locking cylinder connected with said retainer cylinder and having a piston movable back and forth carrying a locking stem for engaging and locking the piston of the retainer cylinder when it has moved into position to close the valve carried thereby; a pipe leading from the train line or auxiliary into the head end of each of said cylinders to introduced train line pressure thereinto, the pistons in said cylinders being movable inwardly by said air pressure, each of said pistons being provided with a spring for resisting its inward movement; said retainer cylinder



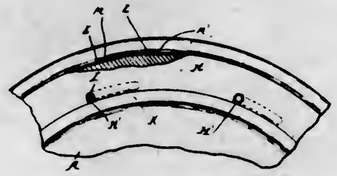
having a bore extending inwardly from its outer side and tapping said valved passageway to form a by-path for the escape of air therefrom when the exhaust port of the triple at one end thereof is open and the valve at the other end thereof closed; a spring-pressed valve at the outer end of said by-path for holding the same normally closed to only permit the escape therethrough of air above a given pressure, the spring in the retainer cylinder being adapted to overcome a greater air pressure than the normal pressure of the train line when the train is running on level track with the brakes idle, the spring in the locking cylinder being adapted to be overcome by a less pressure than said normal train line pressure, and the spring pressure on the valve at the outlet of the by-path being adapted to be overcome by an air pressure still less than that required to overcome the pressure of the spring in the locking cylinder.

1,421,652. PHONOGRAPH. JOHN YOUNQUIST, Chicago, Ill. Filed Feb. 3, 1921. Serial No. 442,249. 3 Claims. (Cl. 240—2.)



1. In an illuminating device for phonographs comprising a metallic supporting surface having an aperture therein; a metallic sleeve resting on said supporting surface over said aperture; an electric light casing rotatably supported on said sleeve; a switch member disposed across said aperture on the under side of said supporting surface and being insulated therefrom; and a bolt for rotatably retaining said casing on said sleeve and engaging said switch member for securing said sleeve on said supporting surface, said switch member and said bolt forming a conductor to said electric light, the circuit being completed through said sleeve and said supporting surface, substantially as described.

1,421,653. CAR WHEEL. CHARLES C. ZABRISKIE, Highland Park, Mich. Filed May 27, 1921. Serial No. 473,116. 6 Claims. (Cl. 295—10.)



1. In a vehicle wheel, the combination with a rim having a tread portion, and a ring forming a complementary tread portion rotatively adjustable to throw out of registration any flat spots therein.

1,421,654. GLUE ROLL. PHILIP ZALKIND, New York, N. Y. Filed July 8, 1920. Serial No. 394,604. 3 Claims. (Cl. 91—48.)

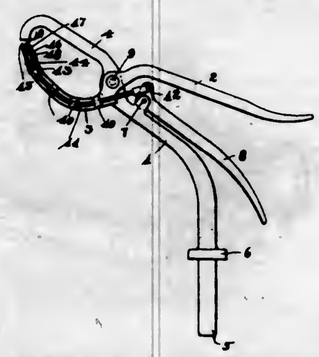


1. In an apparatus of the class described, a stationary shaft, a cylinder mounted to revolve on the said shaft and having an opening therein, a plunger fitting the opening in the cylinder, a cam connected with the said plunger, means for normally maintaining the cam and plunger in such a position that the face of the plunger conforms to the surface of the cylinder, and a cam connected to the said shaft and adapted at predetermined times in the revolution of the cylinder to engage the aforesaid cam to move the same and the plunger to cause the face of the plunger to assume a position beneath the surface of the cylinder.

1,421,655. SOLE TACKER. CHARLES F. ZIEGLER, Los Angeles, Calif. Filed Sept. 25, 1920. Serial No. 412,742. 3 Claims. (Cl. 1—47.)

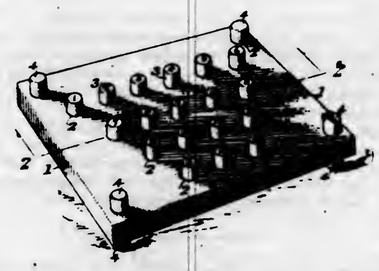
2. In a sole tacking device, in combination with tongs having a longitudinal passage in the front end of one of the jaw members for receiving and guiding nails to a certain point against the opposite jaw member, the hollow jaw member having a form to reach into a shoe to allow a placing of a tack through a seam in the direction from the inside of the shoe towards the outside, an engaging member at the end of the hollow jaw member extending beyond the front end of the jaw member parallel with the

longitudinal axis of the passage through the jaw member, and a spring guiding member at the end of said hollow jaw member having a notched termination in alignment



with the passage through the jaw member to guide a nail from the passage and beyond the passage in a certain direction in alignment with the passage.

1,421,656. GAME. JOSEPH B. ABELE, Philadelphia, Pa. Filed May 21, 1920. Serial No. 383,029. 1 Claim. (Cl. 46—41.)



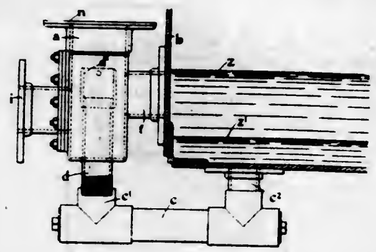
A game consisting of a two-faced board having openings therethrough, pins adapted to partly occupy said openings and movable therein to and from the opposite faces of the board, means on the opposite faces of the board adapted to raise the under face of the latter above the support on which the board is placed allowing the pins when the game is played to be reset for replaying the game when the board is reversed and elbow-like spring members having limbs connected respectively with the sides of said pins and projecting therefrom, the projecting limbs being adapted to engage the walls of said openings and being movable with the pins.

1,421,657. PENCIL AND PEN CLIP. ALFRED ALLEN, Birmingham, England. Filed Dec. 12, 1921. Serial No. 521,882. 2 Claims. (Cl. 24—11.)



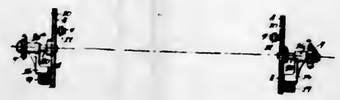
1. A pen or pencil clip consisting of an extension secured at one end to a pen or pencil, lateral hinge projections at the free end of the extension, a claw formed with apertures engaged by the said projections, and a coiled spring on the extension acting on the claw for moving it into operative position, substantially as described.

1,421,658. SEPARATOR EMPLOYED FOR THE SEPARATION OF LIQUIDS OF DIFFERENT DENSITY. WILLIAM HENRY BATEMAN, London, England. Filed Jan. 17, 1922. Serial No. 529,973. 6 Claims. (Cl. 210—51.)



1. An outflow regulator for separators employed for the separation of liquids settling at different levels according to their densities, comprising a casing formed into two adjacent compartments, connections between the said respective compartments and the separator adapted for the admission into the respective compartments of the denser and less dense liquids from the separator, means comprising an outlet pipe in one of the said compartments, said outlet pipe being open at its upper end and adapted to serve as the downward path of discharge of the denser liquid from the said compartment, and a weir in the second compartment for determining the maximum height of the combined column of liquids within the separator, said weir serving as the path of discharge of the less dense liquid from the separator, substantially as described.

1,421,659. LAPPING MACHINE. WALTER S. BECKER, Little Falls, N. Y., assignor to Little Falls Fibre Company, Little Falls, N. Y., a Corporation. Filed Jan. 25, 1921. Serial No. 439,786. 2 Claims. (Cl. 19—163.)

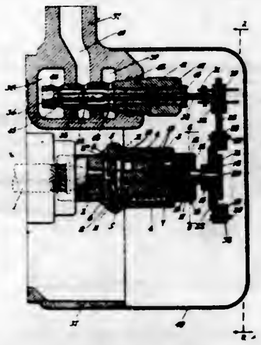


1. In a machine of the character described, the combination with the main frame and a supplemental supporting frame, the carriage of the "camel back" lapper and the transverse apron or conveyer mounted on said supplemental frame; means for directly reciprocating the lapper carriage across said apron or conveyor, said means comprising rotating disks mounted on said supplemental frame, pitman bars having one of their ends connected to said carriage and having their other ends radially adjustably connected to said rotating disks, and means for rotating said disks, said disks and their rotating means being located on said supplemental frame above the plane in which said carriage moves and beneath the "camel back" conveyer.

1,421,660. GOVERNOR. ELI J. BLAKE, Buffalo, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Feb. 10, 1919. Serial No. 275,967. 10 Claims. (Cl. 264—7.)

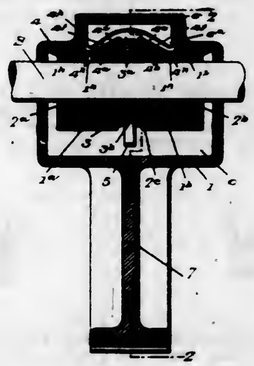
1. In a governor mechanism the combination of a control valve having a sliding valve member, a member rotating on an axis parallel to the movement of said sliding valve member, a pivoted frame, means connecting said sliding valve member with said pivoted frame, said valve

being unbalanced whereby the valve member normally tends to swing said frame about its pivot and close the valve, a spring acting on said frame opposing the closing



of the valve, and centrifugal means operated by said rotating member and acting on said spring to permit the valve to close responsive to speed variations of the rotating member.

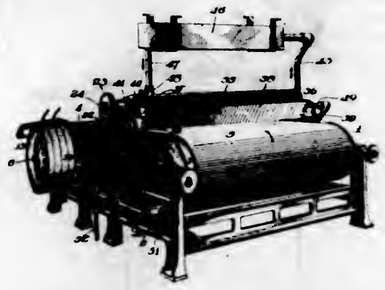
1,421,661. SPLIT LUBRICATING BEARING FOR SHAFTS, ETC. PAUL G. BOGDANOFF, Battle Creek, Mich. Filed Nov. 10, 1919. Serial No. 336,790. 17 Claims. (Cl. 64—31.)



1. In a journal box, a casing divided longitudinally into upper and lower parts, each containing transverse bearing members to support sections of a bushing: the upper part having oppositely inclined portions and holes at the lowermost part of such inclined portions to direct oil to the bushing: a bushing divided longitudinally and transversely into four sections, each section being fitted to a corresponding bearing member of the casing, the bushing sections being spaced apart longitudinally; a shaft journaled in the bushing; and a collar on said shaft intermediate the transversely spaced bushing sections.

1,421,662. MACHINE FOR TREATING HIDES AND SKINS. CHARLES P. BOSSERT, Milwaukee, Wis., assignor to Pfister & Vogel Leather Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 16, 1920. Serial No. 431,151. 26 Claims. (Cl. 91—44.)

1. An apparatus for applying substances to hides and the like having means for delivering the substance to a position adjacent the hide, a flexible strip for receiving a portion of the substance therefrom, means for moving said strip at a comparatively high velocity to throw the substance received thereby onto said hide and an agitating device located in proximity to said substance delivering means.

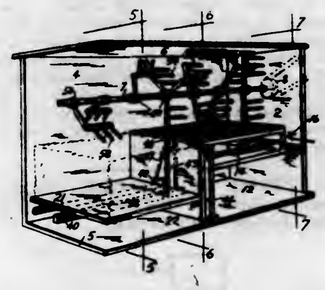


12. In an apparatus for applying plastic substances to hides or other articles, the combination of a conveyor, means for delivering the plastic substance to a point adjacent the conveyor, a strip for removing portions of the substance from said means and throwing such substance onto an article on the conveyor, a scraper for removing the substance which falls on the conveyor and a water spray pipe discharging against the bottom of said conveyor.

19. In a machine of the character described, the combination of an agitator made up in sections, each section having oppositely disposed ridges thereon, a feed roll in proximity to said agitator, and a distributing device in proximity to said feed roll and having a flexible strip adapted to contact therewith.

24. In a hide treating machine, a hopper for the sulfid compound having detachable end pieces, and a body portion provided with end brackets having flanges thereon, a housing having flanges to which said bracket flanges are secured, an agitator in said hopper, and means for actuating said agitator.

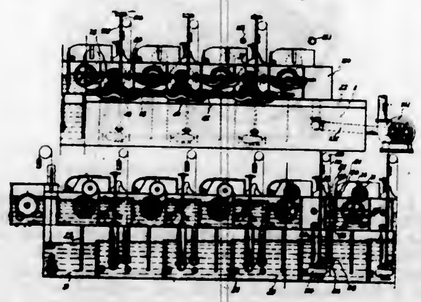
1,421,663. HANDLING KAPOK. LOUIS GRAND BROEL, Leichhardt, near Sydney, New South Wales, Australia. Filed Feb. 23, 1921. Serial No. 447,359. 6 Claims. (Cl. 19—90.)



6. In an apparatus for teasing and cleaning stuffing material, the combination with the elements claimed in claim 2, of a rotary exhaust fan and blower in communication with said delivery outlet adapted to draw air into said chamber and to exhaust it therefrom, said fan comprising a shaft, a wheel carried by the shaft and being provided with a series of tangentially disposed ribs projecting from a back plate to form pockets between adjacent ribs, a solid metal pipe attached at one end to said fan and the opposite end thereof being adapted to project into an air impermeable cover which is to be stuffed,

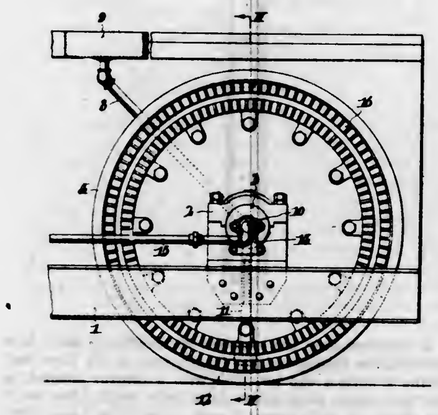
and a perforated metal sleeve disposed about said pipe and attached thereto at the free end of the latter and adapted to be connected with said pipe to said cover and to by-pass to atmosphere air which has been blown into said cover with the said stuffing material.

1,421,664. METHOD OF AND APPARATUS FOR WASHING PULP. ORTON B. BROWN, HUGH K. MOORE, and HOWARD PARKER, Berlin, N. H., and HERMAN M. MARTINSON, La Tuque, Quebec, Canada, assignors to Brown Company, Portland, Me., a Corporation of Maine. Filed Oct. 22, 1919. Serial No. 332,402. 40 Claims. (Cl. 141—12.)



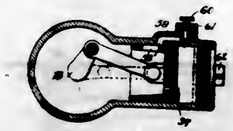
8. An apparatus for washing fibrous material, which comprises a series of associated washing and screening tanks provided with agitators and rotary screens, means for causing the wash liquor to be passed continuously and successively therethrough in one direction, and means for causing the fibrous material to be passed therethrough in the opposite direction, whereby the said fibrous material and the wash liquor are delivered at opposite ends of the apparatus.

1,421,665. TANDEM ROLLER. FRANK A. BROWNE, Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Nov. 18, 1916. Serial No. 132,235. 2 Claims. (Cl. 94—50.)



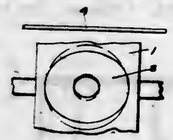
1. In a tandem roller, the combination of a completely closed hollow steam engine-driven roller, with axially pierced trunnions, a storage receptacle for water, for the steam engine, and pipe connections communicating with the interior of the roller only through the axis of each trunnion, one of which communicates with the storage reservoir, so that withdrawal of water through the other connection from the roller to supply the engine, occasions replacement thereof by a similar amount of water drawn by the first mentioned connection from the storage reservoir, thus keeping the roller continuously filled with water.

1,421,666. DOOR CLOSER AND CHECK. WILLIAM J. BRYON, New York, N. Y. Filed Aug. 20, 1920. Serial No. 404,801. 26 Claims. (Cl. 16—66.)



6. In a device of the class described, a cylinder, a piston operable in said cylinder, a movable part having operative connection with the piston, said connection including a spindle having a crank-arm and a link between the crank-arm and the piston, a passageway establishing communication between opposite ends of the cylinder, said passage-way having a port adapted to be closed over by the piston near the end of its stroke to produce a short positive cushion, and closing means for putting the piston and checking mechanism of which the piston forms a part, into play.

1,421,667. METHOD OF MAKING WHEEL DISKS. EDWARD G. BUDD, Philadelphia, Pa., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 24, 1919. Serial No. 299,685. 2 Claims. (Cl. 80—16.)



1. The method of forming a tapered wheel disk from a metal blank comprising passing said blank between a pair of rolls, one of which has an elliptical recess, with its major axis lengthwise of the roll, said recess increasing gradually in depth from the periphery to its center, and having a central elliptical recess of greater and uniform depth, with its major axis lengthwise of the roll.

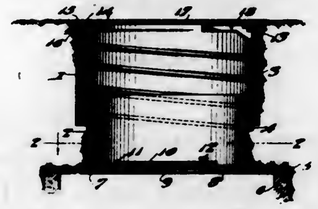
1,421,668. SECOND-HAND-SETTING MECHANISM FOR WATCHES. ABRAHAM BURNSTINE, Washington, D. C. Original application filed Mar. 31, 1922, Serial No. 548,324. Divided and this application filed May 25, 1922. Serial No. 563,476. 5 Claims. (Cl. 58—63.)



5. In a watch, in combination with the watch movement, the winding stem having thereon a grooved clutch member, the winding and setting lever and a seconds-hand wheel, a bracket on said lever, a bar spring passing

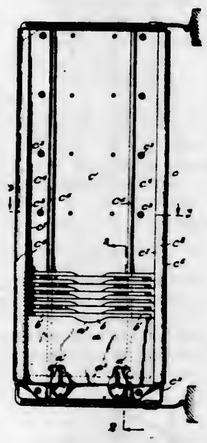
through said bracket, a yoke on the upper end of said spring disposed within the groove of said clutch member, the lower end of said spring being disposed in proximity to said seconds-hand wheel and adapted to be moved through the operation of said clutch member into and out of engagement therewith.

1,421,669. METER BOX COVER. JOHN W. CALHOUN, Chester, Pa. Original application filed Mar. 20, 1919, Serial No. 283,713. Divided and this application filed May 28, 1921. Serial No. 473,516. 4 Claims. (Cl. 94—34.)



1. A cover for meter boxes including upper and lower casing members having openings therethrough, a door for the opening of the upper casing member, a cover ring fitted with opening of the lower casing member, and a door to close the opening of said covering.

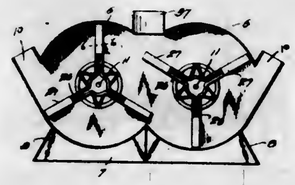
1,421,670. INDEX OR FILE. CHARLES S. CAMPBELL, New Haven, and WILLIAM H. DAY, East Haven, Conn., assignors to Index Visible, Inc., New Haven, Conn., a Corporation of New York. Filed Nov. 30, 1920. Serial No. 427,302. 5 Claims. (Cl. 129—16.)



1. In an index or file, a sheet metal support comprising a main body portion and lateral strips secured thereon and having their edge portions turned forward and inward to form guard flanges, inwardly directed retaining flanges being formed on said support.

2. In an index or file the combination of a support having retaining flanges, index cards having die cut portions or ears to engage said flanges and to maintain the cards in overlapped relation, and record cards of less width in a vertical direction than the index cards and bearing at one edge against the die cut portions or ears of the corresponding index cards.

1,421,671. DUAL ROTARY SNOWPLOW. JOSEPH C. CHLADEK, Mount Horeb, Wis., assignor of one fourth to Roy A. Beat and one-fourth to John Beat, both of Mount Horeb, Wis. Filed Jan. 13, 1921. Serial No. 436,927. 6 Claims. (Cl. 37—63.)



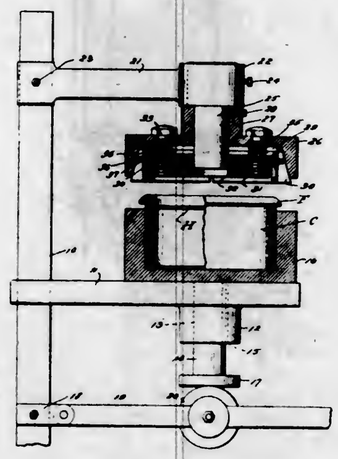
1. In a dual rotary snow plow adapted to plow through deep drifts, the combination of a scoop, dual semi-circular fan casings positioned to receive snow from the scoop, fan blades of suitable length to sweep in the respective casings, each of the casings having lateral passages opening out of the lower portion thereof and positioned and shaped to discharge snow upwardly and outwardly from the casings when the lowermost fan blades are rotating away from each other, the fan blades being positioned to overlap without contact, and means for driving the fans in a direction to throw the snow laterally and upwardly from the lateral discharge passages of the respective casings.

1,421,672. DEEP-SEA SOUNDER. WILLIAM E. CLARKE, Buffalo, N. Y. Filed June 3, 1920. Serial No. 386,171. 1 Claim. (Cl. 73—5.)



A valveless deep sea sounder, comprising a main tube irrefrangible throughout its length and on all sides and having a bottom cap provided with a central opening, a valveless open-ended water inlet tube having its lower end fitted in said opening, said inlet tube being irrefrangible and the portion thereof above said cap being bent toward the wall of said main tube and extended upwardly along the same nearly to its top whereby the central portion of the main tube is left unobstructed to receive a scale-bar, and a removable cap applied to the upper end of said main tube.

1,421,673. CAN-CAPPING TOOL. FREDERICK COATES, Cincinnati, Ohio, assignor to Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 27, 1921. Serial No. 464,832. 12 Claims. (Cl. 93—55.)



1. In a machine of the class described, a can supporting head, a crimping head including means to primarily bend a can top flange downward and thereafter force said flange inward, and means to move one of said heads toward the other.

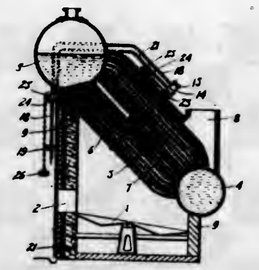
1,421,674. NURSERY LABEL. GLEN I. COLBURN, Geneva, N. Y. Filed Mar. 6, 1922. Serial No. 541,360. 2 Claims. (Cl. 40—6.)



2. A tag comprising a sheet of material perforated transversely adjacent its ends and bearing a legend on one side between said perforations and the longitudinal edges, said sheet having its sides folded inwardly upon the central portion of the sheet to cover the legend thereon, the resultant strip being folded transversely at its center with the ends and said perforations alining respectively, and eyelets secured at the longitudinal centers of the ends of the sheet and alining when said sheet is folded, the other side of the sheet being provided between the lines of longitudinal folding with indicia and adjacent one eyelet with corresponding indicia, the legend portion of the sheet being detachable.

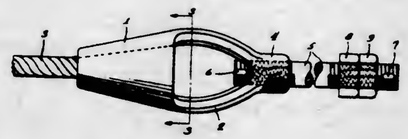
1,421,675. SOOT BLOWER. JAMES M. COLVEN, Yonkers, N. Y., and ARTHUR LOWY, Newark, N. J., assignors to New York Engineering Company, a Corporation of New York. Filed May 29, 1918. Serial No. 237,336. 10 Claims. (Cl. 122—392.)

1. A boiler soot blower comprising a relatively movable nozzle and supply pipe, a port to open and close communication from said supply pipe to said nozzle, a vent for said supply pipe, means normally holding said nozzle and supply pipe to close said port and open said vent, and



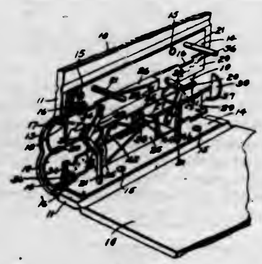
means for effecting relative movement of said nozzle and supply pipe to open said port and close said vent.

1,421,676. WIRE-ROPE SOCKET. EDWARD W. DANIEL, Cleveland, Ohio. Filed Nov. 25, 1921. Serial No. 517,708. 1 Claim. (Cl. 24—123.)



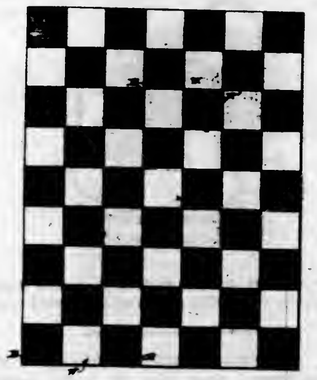
A wire rope socket comprising a tapered cup and symmetrically arranged arms integral with said cup and extending from the larger end thereof, said arms terminating in an integrally formed head, said cup being provided with an aperture through the smaller end thereof in the direction of the longitudinal axis of said cup, and said head having a threaded aperture extending therethrough in alignment with the aperture through said cup, and a threaded shank having one end portion engaging the threaded aperture of said head, and adjustable connecting means provided upon the other end of said shank, thereby providing means for taking up slack in the cable.

1,421,677. LOOSE-LEAF BINDER OR FILE. WILLIAM FRED DUNNING, Washington, D. C. Filed Aug. 24, 1920. Serial No. 405,648. 6 Claims. (Cl. 129—8.)



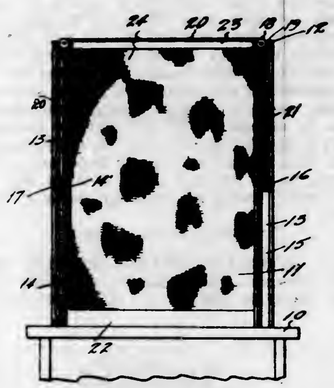
1. In a device of the class described a pair of side sections, a back hingedly uniting said side sections, latches carried by said side sections, straight binding posts projecting from said side sections, and automatic means cooperating with said latches for retaining the binding posts in closed position.

1,421,678. GAME BOARD AND GAME. RUDOLPH G. EBERT, Portland, Oreg. Filed Apr. 26, 1920. Serial No. 376,775. 2 Claims. (Cl. 46—64.)



1. In a game of the kind described, a game board consisting of sixty-three squares of three alternating colors and three sets of twenty-one paying pieces each colored as are the squares, the arrangement of the board being nine rows of seven squares each, substantially as shown and described.

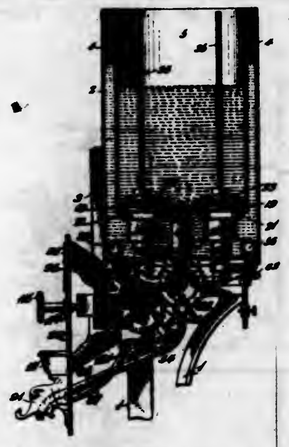
1,421,679. ORDER-FILLING COUNTER. FLOYD A. FERRIS, Dallas, Tex. Filed Aug. 26, 1921. Serial No. 495,574. 2 Claims. (Cl. 211—11.)



1. In a device of the character described, an elongated counter, uprights mounted on each side of the counter, transverse partitions extending from the uprights on one side of the countr to uprights on the opposite side of the counter, sashes slidable between the uprights, pulleys disposed between the upper ends of the uprights, and flexible connections extending from the sashes on one side over the pulleys to the sashes on the other side.

1,421,680. LIQUID-VENDING MACHINE. JOHN FRITSCHE. Philadelphia, Pa. Filed Sept. 16, 1919. Serial No. 324,154. 13 Claims. (Cl. 221—116.)

1. In a liquid vending machine, a liquid container comprising an inner and an outer casing having a chamber between them to receive a temperature changing medium, a plurality of measuring cups in said chamber, a valve exterior of said container to alternately admit liquid from said inner casing into said cups and to alternately



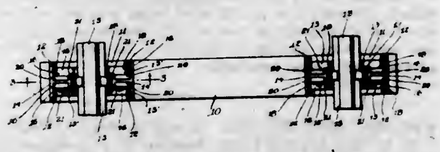
permit the discharge of liquid from said cups, a source of heat in proximity to said valve, and means to control said valve.

1,421,681. LUBRICATING DEVICE. GOTTLOB FUEGEL and HERMAN SCHMID, Brooklyn, N. Y., assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y., a Corporation of Delaware. Original application filed Dec. 27, 1918, Serial No. 268,554. Divided and this application filed Aug. 30, 1919. Serial No. 320,912. 4 Claims. (Cl. 64—24.)



1. The combination of a support having an aperture and a recess in said aperture, an eccentric sleeve in said support to engage a shaft, absorbent material in said recess and engaging said sleeve, said sleeve having holes therethrough containing absorbent material to make contact with the absorbent material in the recess and conduct lubricant to the inside of the sleeve.

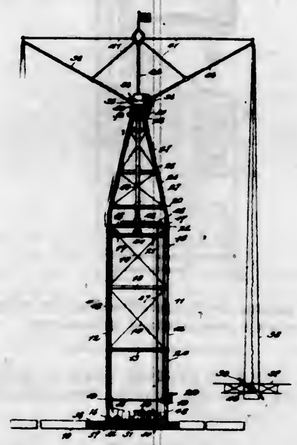
1,421,682. RAIL FASTENER. JOHN P. GARDNER, Soldiers Home, Calif. Filed Sept. 27, 1921. Serial No. 503,606. 3 Claims. (Cl. 238—331.)



1. A rail fastener for attachment to a rail tie, the same consisting of a base plate provided at opposite sides of and perpendicular to the rail seat with guides which are thus disposed perpendicular to a rail arranged on said seat, bolts slidingly fitted in said guides and provided at

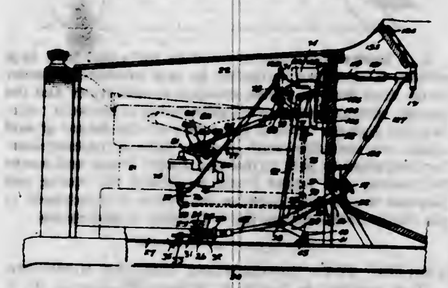
their inner ends with means for engaging the rail foot or base, and means for locking said bolts in rail engaging position, said guides consisting of complemental clips having base flanges riveted to the base plate and upstanding parallel flanges arranged in spaced relation.

1,421,683. CAPTIVE AEROPLANE. RICHARD GARVEY and THEODORE J. MINER, New York, N. Y. Filed Dec. 13, 1920. Serial No. 430,238. 3 Claims. (Cl. 46—27.)



1. In a device of the class described, a base portion, a pair of telescoping tower portions, arms removably supported by one of said tower portions, cars suspended from said arms, a shaft for each of said tower sections, gearing adapted to connect said shafts, and means supported on said base portion for operating said shafts to effect rotary movement of said arms and cars.

1,421,684. LOCKING DEVICE FOR AUTOMOBILES. JOHN P. GERAGHTY, Jersey City, N. J. Filed Nov. 18, 1920. Serial No. 424,937. 6 Claims. (Cl. 180—82.)



1. In a motor driven vehicle, a motor, a hood inclosing the motor, a locking device within the hood for locking the latter, a plurality of motor controlling devices arranged within the hood and mounted with different members of the motor for rendering the latter ineffective, a rock shaft within the hood and connected with the said motor controlling devices, an operating means controlled by an operator and connected with the said shaft and with the said hood locking device, and locking means controlled by an operator and connected with the said shaft and said operating means to lock the shaft and operating means against movement after the hood locking device and the said plurality of motor controlling devices have been moved into operative position by the said operating means.

1,421,685. VACUUM CONTAINER. CHARLES E. GLEASNER, Portland, Oreg. Filed Jan. 20, 1919. Serial No. 272,068. 3 Claims. (Cl. 72—13.)



2. A vacuum container consisting of a concrete tank of sufficient strength to withstand atmospheric pressure, enveloped by an air-tight metallic covering, and having expansion joints in said covering produced by butting the angular flanges formed on the edges of the sheets to form an X with the upper V hermetically joined with solder.

1,421,686. ZINC ALLOY. HANS GOLDSCHMIDT and KARL MÜLLER, Essen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 19, 1917. Serial No. 163,261. 3 Claims. (Cl. 75—1.)

1. An alloy consisting predominantly of zinc and from about 0.5 to 4% manganese.

1,421,687. VALVE. GEORGE P. HAYNES, Brooklyn, N. Y. Filed Dec. 15, 1920. Serial No. 431,031. 6 Claims. (Cl. 251—18.)



1. In a valve, a casing having inlet and outlet openings and provided with an internal rack, valves for controlling said openings, a spring intermediate said valves, a pinion formed on one of said valves and in mesh with said rack, an operating post journalled in said casing and a gear carried by said operating post and in mesh with said pinion.

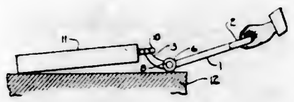
1,421,688. METHOD OF TREATING ACIDS. INGENUIN HECHENBLEIKNER and THOMAS C. OLIVER, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y., a Corporation of North Carolina. Filed June 16, 1921. Serial No. 477,936. 19 Claims. (Cl. 23—1.)

1. The method of treating sludge acids or separated sludge acids which consists in first subjecting a body of the acid to heat treatment while keeping the same at a strength below the charring or coking point thereof and in thereafter subjecting the acid to further heat treatment.

1,421,689. STEREOTYPER'S AND PRINTER'S TOOL. SYDNEY B. HOPKINS, Summit, N. J., and CHARLES JELINEK, Richmond Hill, N. Y. Filed Dec. 14, 1920. Serial No. 430,777. 5 Claims. (Cl. 294—1.)

1. A stereotyper's and printer's hand tool adapted to engage and raise one end of a chase or slab and slide it in and out upon the steam table, said tool having a longitudinally extending stem with a hand grip at the top

thereof, the lower end of the stem terminating in an upwardly curved portion adapted to engage with the



chase or slab, and a pair of outwardly extending rollers, one at either side of the stem, at the beginning of said upwardly curved portion.

1,421,690. RUBBER GARTER. EDWARD G. HOWARD, Cincinnati, Ohio. Filed Sept. 16, 1920. Serial No. 410,606. 1 Claim. (Cl. 241—5.)



A garter comprising a button having a shank, a band of rubber material, having button-receiving perforations at its opposite ends, for connecting the ends of the band, the perforations being of reduced size to the size of the button shank inserted through the perforation, whereby the material must be expanded to enlarge the opening for admitting the button.

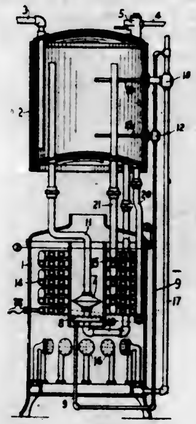
1,421,691. DOOR-HOLDING DEVICE. NORMAN B. HURD, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed June 22, 1921. Serial No. 479,455. 7 Claims. (Cl. 292—262.)



1. A door holder comprising, a bar adapted to be pivotally connected at one end to a door, said bar being rockable on its own longitudinal axis, an abutment having a passage therethrough for said bar and adapted to be carried by an overhead portion of a door casing, a latch device on said bar at one side of the longitudinal axis of the same and arranged to detachably engage a portion of said stationary abutment when said bar is in one position, a buffer device, and means for rocking said bar on its longitudinal axis to disengage said latch from said stationary abutment whereby said rod may be moved longitudinally through the abutment passage.

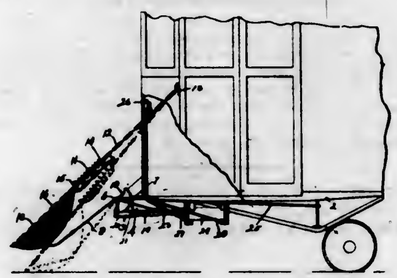
1,421,692. WATER HEATER. RUFUS J. HUTCHINS, Middletown, Ohio. Filed Nov. 10, 1921. Serial No. 514,421. 8 Claims. (Cl. 236—33.)

1. In a water heater, a tank connected with a source of water supply, a normally operative heating device, a circulation system connecting said heating device with said tank, a normally inoperative heating device, a separate circulation system connecting the last mentioned heating device with said tank, and means for rendering said last



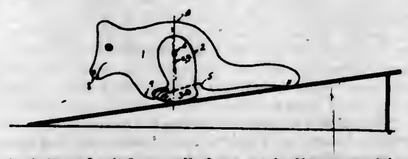
mentioned heating device operative when the water in said tank falls below a predetermined temperature.

1,421,693. VEHICLE FENDER. OMAR G. JONES, Philadelphia, Pa. Filed Oct. 9, 1920. Serial No. 415,849. 3 Claims. (Cl. 293—45.)



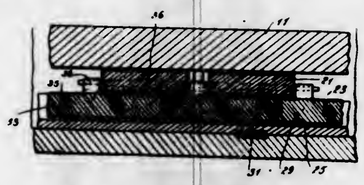
2. A fender consisting of brackets for attachment to a vehicle, a cross bar journalled in said brackets, a fender frame fixed thereto, chains attached to said frame and the vehicle, springs interposed in said chains to normally maintain the distance between the points of attachment of said chains less than the length of said chains, a catching member supported by said chains and fender frame and means for moving said fender frame to expand the spring and increase the distance between the points of attachment of the chains until equal to the full length of said chains.

1,421,694. TOY. EDWARD FRANK JUERGENS, Middletown, Ohio, assignor to Joseph H. Wilson, Washington, D. C. Filed Jan. 7, 1921. Serial No. 435,689. 11 Claims. (Cl. 46—40.)



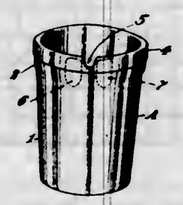
1. A toy adapted to walk down an incline comprising in combination a body portion, a leg device pivoted to said body at a point adjacent the center of gravity of said body and having a curved foot surface outside the contour of the body, a fulcrum surface on the body adapted to alternate with the device in supporting the body, said device adapted to swing forwardly to a point where a portion of the curved foot surface is in advance of said fulcrum and means to limit the extent of the swinging movement of said device.

1,421,695. BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Filed Jan. 23, 1918. Serial No. 213,287. 23 Claims. (Cl. 64—25.)



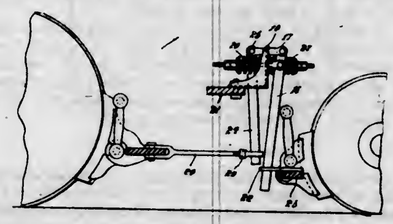
1. In a bearing, the combination with bearing means, of an equalizing system for distributing the pressure thereon comprising a plurality of interdependent members, and means for reducing the friction between said members and increasing the flexibility of the equalizing system.

1,421,696. PITCHER, TUMBLER, AND PACKAGE. PETER KUCERA, Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a Corporation of Delaware. Filed July 12, 1921. Serial No. 484,070. 17 Claims. (Cl. 215—1.)



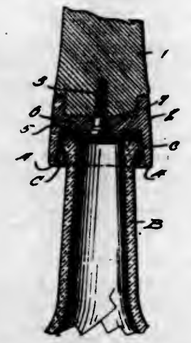
1. An article of manufacture a packer's jar or the like comprising a jar with a substantially cylindrical mouth, a dam on the interior of the mouth and adjacent the edge of the jar with the longitudinal crest of the dam substantially a continuation of the inner wall of the jar, and a pouring notch adjacent said dam.

1,421,697. BRAKE RELEASE SPRING MECHANISM FOR TRAM AND THE LIKE CARS. HOWARD LEAH, Wellington, New Zealand. Filed July 20, 1921. Serial No. 486,140. 2 Claims. (Cl. 188—216.)



2. The combination with a car truck having movably mounted brake beams and a transverse member, of a bracket secured to said transverse member, a pair of horizontally arranged arms extending in opposite directions and formed integral with said bracket, a lever pivoted to and depending from the outer end of each arm, the lower free ends of said levers being operatively connected to said brake beams, a rod pivotally connected to each lever adjacent its pivoted connection to said arms, said rods adapted to extend through openings formed within said bracket in opposite directions, an adjustable washer arranged upon each rod and a coil spring encircling each rod and arranged between said bracket and said washer substantially as and for the purpose specified.

1,421,698. HAND CROWNER FOR APPLYING CROWN CAPS TO BOTTLES. HARRY J. LEBHERZ, Frederick, Md. Filed Mar. 11, 1921. Serial No. 451,525. 4 Claims. (Cl. 226—84.)



1. As a new article of manufacture, a hand crowner for capping bottles consisting of a handle member of suitable size for manual operation, a bottle capper head having a deep chambered portion of suitable size to permit the device to engage over a crown cap and constrict and lock same on the neck of the bottle to which it is applied, the chambered portion of the capper head having an annular recessed portion disposed to overlie the portion of the cap above the edge of the neck of the bottle, and the capper head having a central projecting portion of suitable size to press the central portion of the crown cap downwardly into the neck of the bottle, and a screw securing the bottle capper head to the handle, said screw when applied having its head aligned with the surface of the central projecting portion of the bottle capper head to operate as a part thereof in contact with the crown cap when applying the crown cap.

1,421,699. AEROPLANE PROPELLER. WILLIAM LINDSAY, Chicago, Ill. Filed June 19, 1918. Serial No. 240,745. 9 Claims. (Cl. 170—164.)



2. An aeroplane propeller having the longitudinal centre ine of its vanes so disposed during flight that it lies in the

direction of a line which is the resultant of the thrust, torsional, and centrifugal forces, and said vanes being disposed in operative state when the aeroplane is at rest.

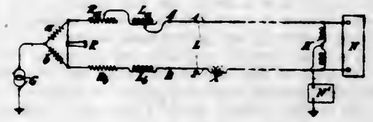
1,421,700. MEANS FOR STIFFENING TEXTILE FABRICS. OSKAR LOBECK, Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 8, 1918. Serial No. 233,389. 6 Claims. (Cl. 134—20.)

1. A soluble composition for stiffening linen comprising of powdered gelatin in admixture with a desiccating agent.

1,421,701. TANNING SUBSTANCE FOR TANNING ANIMAL HIDES AND PROCESS OF PREPARING THE SAME. OSCAR LÖW-BERNS, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Aug. 2, 1918. Serial No. 248,066. 12 Claims. (Cl. 260—3.)

1. The process for the preparation of a tanning material which comprises heating a hydroxyl derivative of a hydrocarbon, which derivative contains three or more carbon atoms and more than one hydroxyl group, an aromatic compound containing a sulfonic acid group and formaldehyde.

1,421,702. TESTING APPARATUS. RALPH G. MCCURDY, Cresskill, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 19, 1920. Serial No. 404,583. 10 Claims. (Cl. 179—175.)



3. The method of determining the distance of an unbalance in a transmission circuit from a testing station, which consists in testing the circuit for an unbalancing impedance irregularity and calculating the distance of said irregularity from the testing station.

1,421,703. TREATMENT OF FIBROUS MATERIALS. DANIEL MCGILL, London, England, assignor to Volos Manufacture Limited, London, England. Filed Dec. 22, 1921. Serial No. 524,263. 5 Claims. (Cl. 134—12.)

4. A solution for the treatment of vegetable fibres comprising a mixture of the following in the approximate proportion specified:—

Glue	1 lb.
Potassium chloride from	½ to 1 oz.
Caustic soda	½ oz.
Black treacle	1 lb.
Graphite	1 to 2 ozs.
Potassium alum	2 ozs.

dissolved in water.

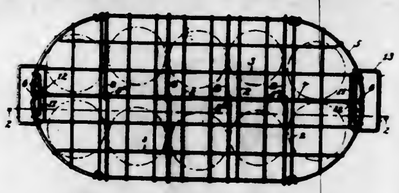
1,421,704. BATHING SUIT. GEORGE A. MATTERN, Berkeley, Calif. Filed Aug. 8, 1921. Serial No. 490,467. 2 Claims. (Cl. 2—144.)

2. A bathing suit of knitted goods comprising a trunk portion, a leg portion, and a skirt portion, in all of which the elastic phase of the goods is circumferential; and a strip of knitted goods inserted in and extending across the width of the back only of the garment under the skirt portion and between the base of the trunk and the



top of the leg portions, said strip having its elastic phase at right angles to the elastic phase of said portions.

1,421,705. HOLDER FOR JARS. THOMAS G. MELISH, Cincinnati, Ohio. Filed May 3, 1919. Serial No. 294,440. 3 Claims. (Cl. 53—1.)



2. In a holder for jars the combination with a bottom frame and an upper frame collapsibly secured together and a wire secured in said upper frame at the ends thereof, of a wire at each end of said bottom frame and pivotally secured thereto, said wires being provided with hooks to engage the wire in said upper frame to lock the frames in open position, and spacers adjustably secured in said upper frame.

1,421,706. PROCESS OF EXCLUDING WATER FROM OIL AND GAS WELLS. RONALD VAN AUKEN MILLS, Sandy Spring, Md. Filed Oct. 15, 1918. Serial No. 258,260. 6 Claims. (Cl. 166—21.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

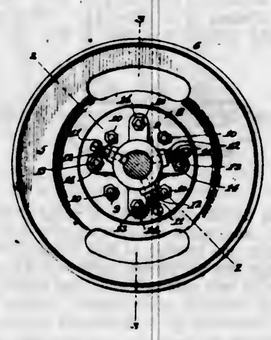
1. A process of the character described which consists in introducing into a well or other rock cavity rock forming material and reagents adapted to react chemically with the dissolved constituents of natural rock solutions to form a precipitate adapted to render said rock forming material substantially impervious.

1,421,707. PROCESS OF PREPARING A PERMANENT AND SPINNABLE SOLUTION IN THE CUPRIC-AMMONIA PROCESS. PAUL HERMANN MINCK, Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed July 23, 1918. Serial No. 246,419. 6 Claims. (Cl. 23—24.)

1. The process of preparing spinnable cupric-ammonia-cellulose solutions consisting in the reduction of the cupric salts present in the solution and dehydration of the cellulose by means of sugars of the grape sugar group and the

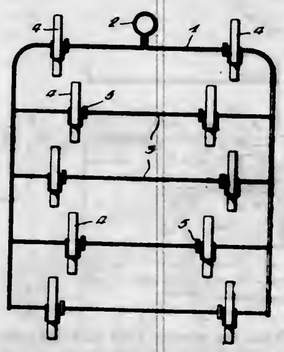
hydration of the cellulose by sugars of the cane sugar group, the amount of such sugars being not less than one-quarter of one per cent and not more than two and one-half per cent based on the weight of cellulose employed.

1,421,708. TIGHT BAND PULLEY. HENRY W. MORGAN and EDWARD P. HOLDER, Greenville, S. C. Filed Aug. 22, 1921. Serial No. 494,376. 1 Claim. (Cl. 64—17.)



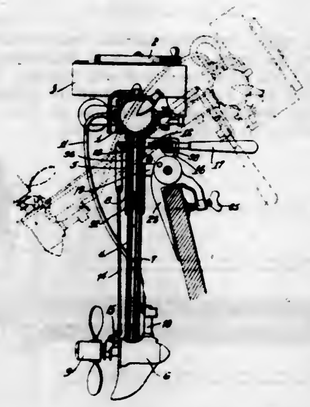
In combination, a pulley body having a central hole and a series of bolt-holes around the same, a pulley-hub extending through said hole and provided with a radial flange overlapping the pulley body and provided with bolt-holes coinciding with the bolt-holes in the pulley body, clamp-bolts extending through said coinciding holes, and a plurality of set-screws tapped through said flange and bearing upon the adjacent face of the pulley body, for the purpose set forth.

1,421,709. CLOTHES HANGER. FRANK C. NELSON, Clarksburg, W. Va. Filed Aug. 25, 1921. Serial No. 495,379. 1 Claim. (Cl. 211—13.)



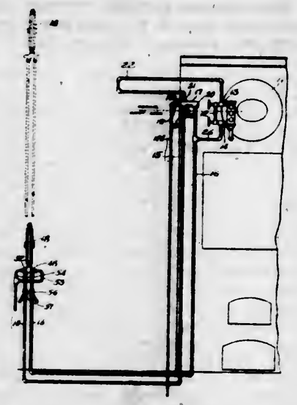
A clothes hanger comprising a frame having sides and head portions, attaching means on said head portion, a plurality of relatively parallel rods disposed transversely of said frame and secured at their opposite ends to adjacent portions of the frame sides, a plurality of relatively staggered pairs of stops fixedly arranged upon said rods and head portion spaced inwardly from the sides thereof, and clasps pivotally and slidably arranged upon those portions of the rods and head portion capable of having independent lateral adjustment between their respective stops and the frame sides.

1,421,710. MOUNTING FOR OUTBOARD MOTORS. RICHARD B. OWEN, Washington, D. C. Filed Feb. 10, 1916. Serial No. 77,505. 17 Claims. (Cl. 115—18.)



1. An outboard motor propulsion unit consisting of an engine, a propeller, means for pivotally and slidably supporting said engine upon a support for permitting the engine to be swung from a position outboard to a position inboard and moved longitudinally of said support.

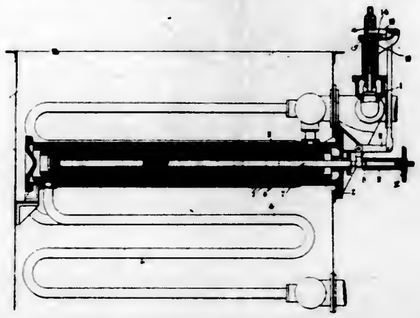
1,421,711. DISTANT BOILER-WATER-LEVEL INDICATOR. HARRY S. PARKS, Philadelphia, Pa., assignor to Pneumercator Company, New York, N. Y., a Corporation of Maine. Filed Apr. 12, 1917. Serial No. 161,545. 19 Claims. (Cl. 73—54.)



1. A means for indicating the level of water in a steam boiler comprising two rising pipe lines adjacent to one another and exposed to substantially the same external temperature, lower than the boiling point of water, one of said pipe lines being connected with the boiler below the normal water level therein, and the other rising above the said normal level and adapted to contain a high water column of fixed height, a condensing pipe leading from the steam space of the boiler and arranged mainly above the head of said high column pipe line with its discharge outlet arranged to drip into said pipe line, whereby the latter is kept full to overflowing, a separate connection below the outlet of said condensing pipe arranged to conduct

away such overflow, and a differential indicator connected to the two pipe lines and adapted to show the difference between the momentary boiler water level and the height of said high water column.

1,421,712. STEAM SUPERHEATER. CHARLES ALGERNON PARSONS and STANLEY SMITH COOK, Wallsend-on-Tyne, England; said Cook assignor to said Parsons. Original application filed Apr. 27, 1917, Serial No. 165,048. Divided and this application filed June 26, 1918. Serial No. 242,105. 5 Claims. (Cl. 122—479.)



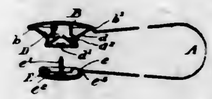
2. In combination with a steam superheater for steam boilers, a relief valve controlling the exit of steam from the superheater, a thermostat associated with said superheater, and means for controlling said valve from said thermostat, whereby the valve will blow off when the temperature rises within the superheater, consequent upon the demand for steam being reduced or ceasing.

1,421,713. SELF-OILING ROTARY CUTTER. CHARLES J. PETRASEK, New York, N. Y. Filed Feb. 3, 1921. Serial No. 442,108. 4 Claims. (Cl. 10—126.)



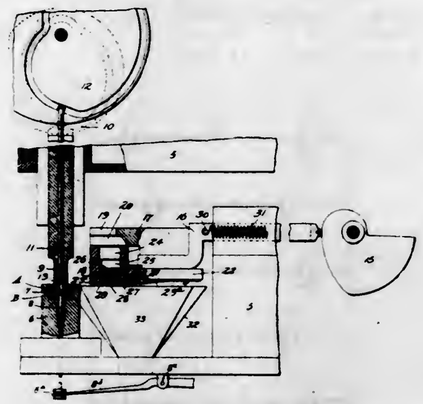
4. The herein described oil receptacle comprising a hollow body, a plug for the delivery end of the body, a bolt projecting inward through said plug, a valve connected to the bolt and co-operating with the outer face of the plug, a finger piece projecting laterally from the valve, a pair of spaced plugs carried by the opposite end of the body, a bolt projecting through the inner one of these two valves, a heavy spring co-operating between the latter mentioned bolt and its plug serving to project the bolt outward, a tie member extending between the two plugs, a valve co-operating with the inner face of the outer plug of the pair of plugs, and a light spring located between the second mentioned bolt and the latter mentioned valve, substantially as set forth.

1,421,714. SEALING DEVICE. VOJTĚCH PUC, Prague-Vinohrady, Bohemia. Filed Aug. 1, 1919. Serial No. 314,763. 5 Claims. (Cl. 292—318.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A sealing device, comprising a metal strip formed with enlarged ends which are permanently connected to locking members, one member of said locking device comprising a frame, the peripheral portion of which is embraced by one of said enlarged ends and which contains locking springs, and the other member having the edge of its frame embraced by a peripheral portion of the other enlarged end of the strip, and said last mentioned locking member having a shank which is adapted to enter said socket member.

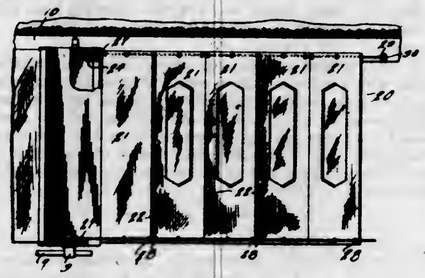
1,421,715. MECHANISM FOR SORTING THE SOCKET MEMBERS OF SNAP FASTENERS. VOJTĚCH PUC, Prague-Vinohrady, Bohemia. Filed Jan. 9, 1920. Serial No. 350,361. 12 Claims. (Cl. 79—3.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A machine for sorting good and defective articles comprising a sorting pin for detachably locking to some of the articles, means for bringing the sorting pin into engagement with articles to be sorted, and means for stripping articles from the sorting pin.

1,421,716. AUTOMOBILE STORM CURTAIN. ARTHUR F. RANDALL, Shreveport, La. Filed Jan. 26, 1921. Serial No. 440,022. 1 Claim. (Cl. 296—141.)

An automobile storm curtain comprising a bracket to be mounted on an automobile, a rectangular casing carried by the bracket and capable of being arranged in a vertical position at one side of the automobile to constitute a part of the curtain, a curtain section carried by the casing, spring-rotated drums journaled in the casing, and flexible



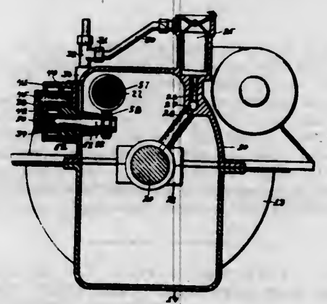
elements having slidable connection with the longitudinal edges of the curtain section and adapted to be wound about the drums to fold the curtain against the casing.

1,421,717. PAN WITH OVERFLOW-ALARM DEVICE. ANTHONY RENDA, New York, N. Y. Filed Feb. 23, 1921. Serial No. 447,276. 3 Claims. (Cl. 177—311.)



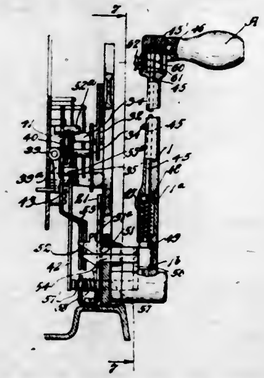
2. In combination with a drip pan of a receptacle disposed at one end of the pan, and a removable alarm device comprising in combination an adjustable non-metallic frame disposed within said receptacle, said frame being provided with a top member adapted to completely close said receptacle, a pair of metallic terminals secured in and extending within said frame, a lever pivotally connected to said frame, said lever being provided with a float secured at one of its ends and a metallic extension adapted to contact with said metallic terminals, when the float is in overflow position, a bell and batteries supported by said frame, and means for connecting said bell, batteries and terminals.

1,421,718. OIL PUMP. HARRY E. RHOADS, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 16, 1918. Serial No. 254,226. 11 Claims. (Cl. 184—6.)



6. In combination with one of the operating shafts of an automobile engine and a casing therefor, a pump secured to said casing provided with a sleeve projecting into said casing, means in said sleeve actuated by said shaft for operating the pump, and a reservoir integrally formed with the casing, the said pump forcing oil to the reservoir and also from the sleeve to the casing.

1,421,719. CONTROL MECHANISM FOR CALCULATING MACHINES. JOHN F. ROBB, Cleveland, Ohio. Filed June 29, 1916, Serial No. 106,657. Renewed Nov. 6, 1919. Serial No. 336,235. 38 Claims. (Cl. 235—60.)



1. In an accounting machine, the combination, with accounting mechanism for taking totals, manipulative devices for predetermining the action thereof and handle means for effecting a normal operation of said mechanism for regular transactions of the machine, of means operable by initial movement of the handle means in the direction of its movement for effecting a normal operation of the machine whereby to compel total taking operation of the machine.

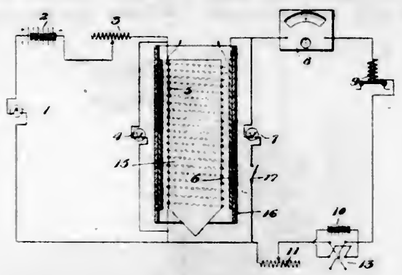
4. In an accounting machine, the combination, with accounting mechanism, manipulative means for predetermining the action of said accounting mechanism, handle means for effecting a normal operation of said mechanism for regular transactions of the machine including a crank, a handle for said crank, a connection intermediate the handle and crank for holding the handle rigid against movement relative to the crank and permitting rotative relative movement by adjustment of the handle, and means adapted to be operated as an incident to the rotative movement of the handle on the crank for compelling an abnormal operation of the accounting mechanism for an irregular transaction of the machine.

5. In an adding and listing machine, the combination of accumulating and listing mechanism, manipulative means for setting the said accumulating and listing mechanisms for ordinary accumulating and listing operations, main operating means for said mechanisms including a main actuator, a handle for said actuator, and means operable from said handle for causing sub-totalling action of the accumulating and listing mechanism.

6. In an adding and listing machine, the combination of accumulating and listing mechanism, manipulative means adapted to be set to control the said accumulating and listing mechanisms for ordinary accumulating and listing operations, main operating means for said mechanisms including a main actuator, a handle for said actuator, and means operable from said handle previous to the movement of the main actuator for normalising the manipulative means aforesaid.

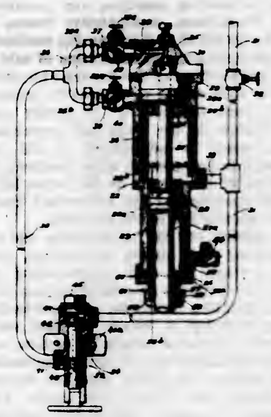
16. In a listing machine, the combination of listing mechanism, manipulative means adapted to be set to control the said listing mechanism for ordinary listing operations, main operating means for said mechanism including a main actuator, a handle to be grasped for moving said actuator, and means operable from said handle previous to the movement of the main actuator by the handle for effecting normalisation of the manipulative means aforesaid.

1,421,720. METHOD OF AND APPARATUS FOR DETECTING THE PRESENCE OF ONE GAS IN ANOTHER. CLAUDIUS H. M. ROBERTS, Washington, D. C. Filed June 3, 1920. Serial No. 386,392. 18 Claims. (Cl. 185—185.)



1. The herein described method of detecting the presence of one gas in another; consisting in passing the gaseous mixture to be tested between opposed spaced electrodes connected with a suitable source of low potential direct current electricity; the amount of current passing across the gap varying with the amount of the gas to be detected existing in the mixture being tested, and noting the changes in the current.

1,421,721. DOOR-OPERATING APPLIANCE. JAY G. ROBINSON, Chicago, Ill. Filed Jan. 25, 1915. Serial No. 4,358. 2 Claims. (Cl. 121—44.)



1. In a fluid-actuated operating mechanism, a cylinder, a piston in said cylinder, a piston rod upon which said piston is mounted, a metallic packing in the end of said cylinder around said piston rod, fluid pressure means for moving said piston towards said metallic packing, means to produce a reverse stroke, and an inlet valve to permit atmospheric air to flow into the chamber on the side of said piston adjacent said packing during said reverse stroke, said packing permitting the escape of air therethrough under a relatively high pressure, said cylinder being constructed to prevent the escape of air from the chamber on the side of said piston adjacent said packing except through said packing.

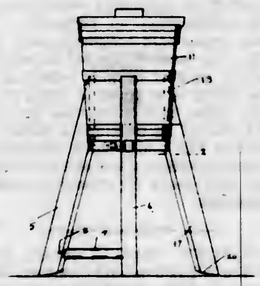
1,421,722. TANNING. ADOLF RÖHM, Stuttgart, and LOUIS BLANGEY, Mannheim, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Original application filed Sept. 2, 1916, Serial No. 118,286. Divided and this application filed Apr. 27, 1917. Serial No. 165,000. 5 Claims. (Cl. 149—5.)

1. The process of tanning which comprises treating hides with a water-soluble aromatic compound of crystalline structure consisting of more than one aromatic nucleus connected to at least one carbon atom which is itself joined to at least one alkyl group and containing a mineral acid group, said compound being capable of precipitating glue from solutions thereof, substantially of the character described.

1,421,723. PROCESS FOR TANNING WITH ALUMINIUM SALTS. OTTO RÖHM, Darmstadt, Germany, assignor, by meane assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Dec. 6, 1917. Serial No. 205,880. 11 Claims. (Cl. 149—5.)

1. The process of tawing which comprises immersing hides or skins in a liquor containing 8 kg. potassium alum, 2½ kg. sodium chloride, 500 g. sodium formate, 10 kg. talcum, and 50 l. of water for each 100 kg. of hides or skins.

1,421,724. SUPPORT FOR ICE-CREAM FREEZERS. FRANK D. RUGG, Greenfield, Mass. Filed Jan. 15, 1920. Serial No. 351,692. 2 Claims. (Cl. 248—41.)

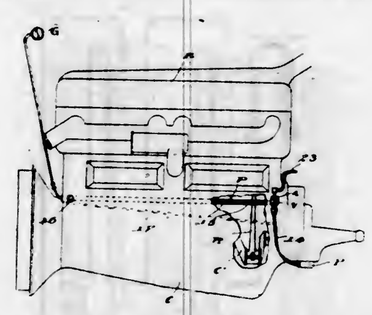


1. A pail or freezer support consisting of a pair of legs, each of the legs having a beveled pail engaging face on its upper end, a rung connecting the lower end portions of the legs to each other, a band adapted to form a seat for the pail, and having pivotal connection with the upper end portions of the legs, and a third leg pivotally connected with the band and provided with a pail engaging face on its upper end, the third leg being detachable and the band being capable of swinging into longitudinal relation with the legs to permit the support to be folded.

1,421,725. ATTACHMENT PLUG FOR OILING SYSTEMS FOR INTERNAL-COMBUSTION ENGINES. RANDALL WILLIAM SAUNDERS, Brooklyn, N. Y. Filed Oct. 8, 1921. Serial No. 506,418. 6 Claims. (Cl. 184—11.)

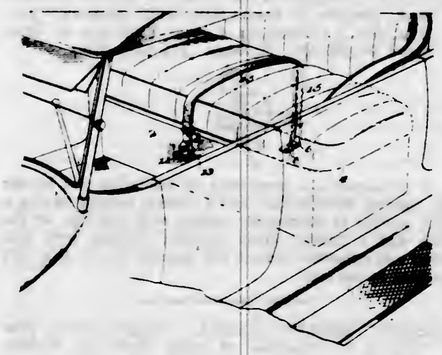
5. In an oiling system of the character described, including a pipe or conduit having an opening with a removable closure therefor, in combination, a plug adapted to be

substituted for the removable closure of the pipe, said plug having a nipple extension adapted to permit the connection



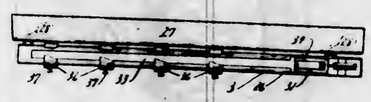
of a source of compressed air with the pipe for the purpose described.

1,421,726. SAFETY STEEL STRAP CUSHION LOCK. RANDALL WILLIAM SAUNDERS, Brooklyn, N. Y. Filed Dec. 5, 1921. Serial No. 520,026. 5 Claims. (Cl. 70—27.)



1. As an article of manufacture, a longitudinal substantially flat metal band, a hinge attached to the band at one end thereof, a lock element attached to the band at its other end and adapted to engage a cooperating lock element.

1,421,727. DIRECTION INDICATOR. WILLIAM J. SCHAFER, Santa Cruz, Calif. Filed Mar. 21, 1921. Serial No. 455,164. 1 Claim. (Cl. 116—50.)



In means for actuating an indicating device of the character described, a tubular channel, a cylindrical member adapted to be reciprocated in said channel, an operative connection between said member and said indicating device and a plurality of clips adjustably fastened to said channel, each adapted to lock said cylindrical member.

1,421,728. METHOD OF MAKING AN INDESTRUCTIBLE BLACK STAMP DYE FOR DOCUMENTS. JOHANNES SCHIFFMANN, Ballenstedt, Germany. Filed Aug. 8, 1921. Serial No. 490,821. 1 Claim. (Cl. 134—34.)

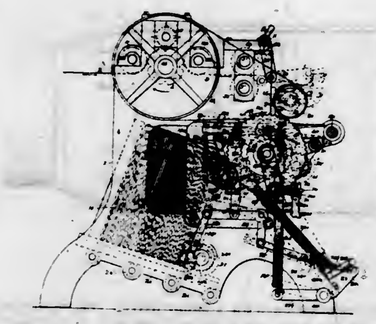
A method of making an indestructible black stamp-dye for documents, consisting in mixing a pigment that is insoluble in water, namely aniline-black that is soluble in alcohol, with gallotannate of iron, dissolving said mixture while hot in acetine, and adding lamp-black to said mixture, substantially as and for the purpose set forth.

1,421,729. OPHTHALMIC MOUNTING. ELMER L. SCHUMACHER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Mar. 31, 1921. Serial No. 457,188. 3 Claims. (Cl. 88—42.)



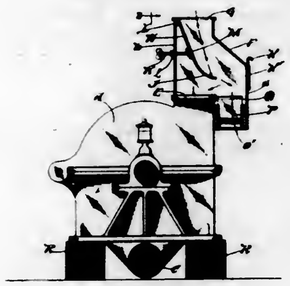
1. In a device of the character described, the combination with a composition rim member having a semi-circular slot milled therethrough, of a fitting having a plate portion conforming in shape to the shape of the slot, and having projecting terminal portions embedded in the material of the rim for securing the parts together.

1,421,730. TOILET-PAPER WINDER. LINO SCUSA, Phoenix, N. Y. Filed Nov. 6, 1920. Serial No. 422,274. 14 Claims. (Cl. 216—9.)



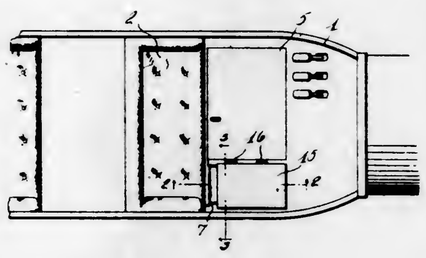
1. In a toilet paper winder, the combination with the paper feeding and slitting parts, of a reel disposed in the path and rotatable in the direction of the travel of the paper, a plurality of mandrels journalled in said reel adapted to be successively moved towards the position for winding the slitted paper by the rotation of said reel, means for indexing said mandrels, means for driving the mandrels for winding the strips of paper, means for winding hollow cores upon said mandrels before they are moved to the paper winding position, and means carried by said reel for effecting the starting of the core winding mechanism.

1,421,731. GRINDER AND SHREDDER. HARRY J. SHELTON, St. Louis, Mo. Filed May 12, 1920, Serial No. 380,894. Renewed Apr. 24, 1922. Serial No. 556,360. 2 Claims. (Cl. 83—11.)



1. A suction fan in combination with a grinding and shredding machine having an inlet opening upwardly, a separator mounted on said inlet comprising a casing having vertical rear and side walls, the lower end of said rear wall and the parts of the lower end of said walls adjacent thereto resting on the upper edges of said inlet and said side walls extending downwardly in front of and below said inlet to form a pocket, a front wall following the contour of the front edges of said side walls, and an adjustable deflector pivotally attached to said rear wall near the upper end thereof and extending downwardly toward and terminating above said inlet.

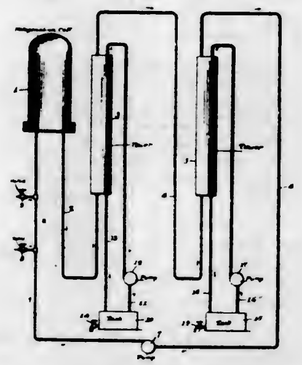
1,421,732. TOOL BOX. ALBERT BRINTON SLACK, San Antonio, Tex. Filed Aug. 12, 1921. Serial No. 491,794. 4 Claims. (Cl. 296—37.)



1. In combination with a motor driven vehicle having a portion of the floor board thereof removed, a tool box received in said removed portion having one end extended under the lower portion of the operator's seat support, means on one side of the box engageable with a portion of the vehicle body, other means on the opposite side of said box for receiving and supporting the adjacent end of the floor board, and a cover for the open top of said box.

1,421,733. PREPARATION OF HALOGEN COMPOUNDS. WALTER O. SNELLING, Allentown, Pa. Filed June 4, 1920. Serial No. 386,627. 4 Claims. (Cl. 260—166.)

3. In the preparation of hydrochloric acid, the process which comprises chlorinating methane with the production of methyl chloride and hydrochloric acid, contacting the resulting gaseous mixture with a solvent for methyl chloride, and thereafter contacting the residual gaseous product with a solvent for hydrochloric acid gas.

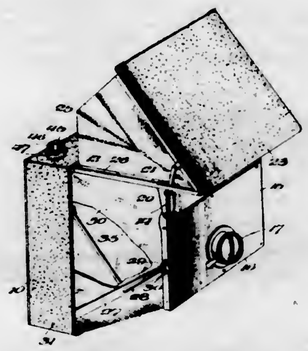


1,421,734. COMMUTATOR. WILLIAM SPARKS, Jackson, Mich., assignor to Sparks-Withington Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 16, 1920. Serial No. 396,801. 3 Claims. (Cl. 171—320.)



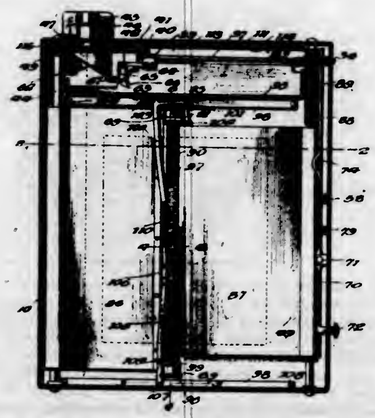
2. A commutator comprising an insulating disk having an opening therethrough, and a contact member having a web portion in substantial contact with one face of the disk and a tubular shank centrally engaged with said head and extended through the opening in the disk, and secured to the disk.

1,421,735. REFLEX CAMERA. CHARLES SPIRO, New York, N. Y. Filed Dec. 28, 1920. Serial No. 433,597. 28 Claims. (Cl. 95—42.)



1. In a camera, a case, a finder plate pivoted thereto, a lens plate pivotally supported from the finder plate, and a cover plate connected to the lens plate to swing the latter toward and from the finder plate.

1,421,736. CURTAIN CAMERA SHUTTER. CHARLES SPIRO, New York, N. Y. Filed Dec. 28, 1920, Serial No. 433,598. Renewed Apr. 1, 1922. Serial No. 548,794. 22 Claims. (Cl. 95—57.)

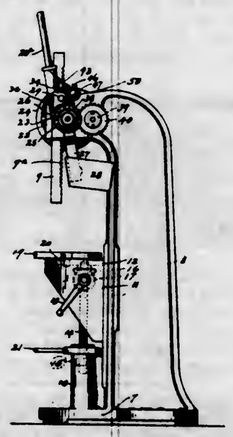


1. In a curtain shutter, separable curtains, means for moving said curtains in unison, means thereon for locking said curtains in contact, relatively fixed means for releasing said curtains for separation in their travel in one direction, and means upon one curtain for drawing said curtains into contact in their opposite travel.

1,421,737. ART OF PRODUCING CEREAL BEVERAGES. MAX STAHL, Chicago, Ill., assignor to The Wahl-Henius Research Laboratory, Chicago, Ill., a Corporation of Illinois. Filed Jan. 2, 1920. Serial No. 348,780. 5 Claims. (Cl. 99—11.)

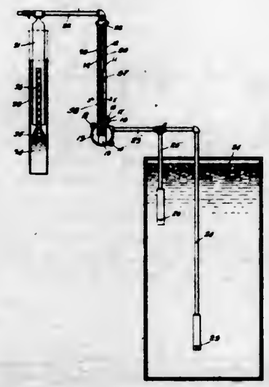
1. In the process of preparing low alcoholic cereal beverages, preparing a brew by subjecting a wort to controlled fermentation and checking the fermentation when the alcohol content reaches 0.3% to 0.7% and adding thereto dealcoholized beer.

1,421,738. ARBOR PRESS. JOSEPH H. STALEY, Columbus, Ind. Filed Mar. 1, 1921. Serial No. 448,877. 17 Claims. (Cl. 29—85.)



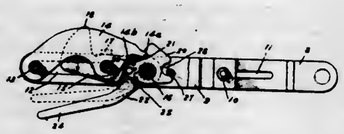
16. In an arbor press, a frame, a reciprocating ram supported by the frame, a lever, gear means for actuating the ram at different powers, and selective means for transmitting power from the lever to one of said ram-actuating means.

1,421,739. MANOMETER. CECIL W. STANCLIFFE, Toronto, Canada, assignor to Pneumercator Company, New York, N. Y., a Corporation of Maine. Filed Sept. 26, 1919. Serial No. 326,571. 12 Claims. (Cl. 73—31.)



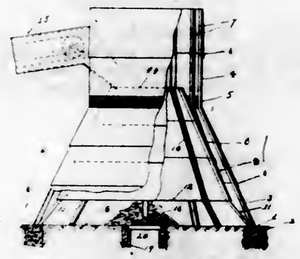
1. The combination with a manometer, of a multiplying vernier comprising a container for liquid, and a conduit arranged to descend into the liquid in said container and having an open orifice adapted to be maintained beneath the surface of said liquid, said conduit containing air and being connected to the manometer in such manner that its air contents exert back pressure in the manometer, while exerting pressure on the liquid.

1,421,740. SWITCH MECHANISM. HARRY M. STEVENS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 21, 1919. Serial No. 272,347. 12 Claims. (Cl. 200—106.)
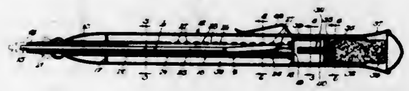


11. In an operating mechanism for an electric switch, an operating member, a rigid connection between said switch and said operating member provided with a slot, a pin carried by said operating member movable in said slot, and means for transmitting the thrust of said operating member to said rigid connection including a collapsible connection between said rigid connection and said operating member, said collapsible connection comprising a toggle member carried by said operating member pivotally supported on said pin, a cooperating toggle member pivotally secured to said rigid connection, a main latch for holding said toggle members in thrust transmitting position and an auxiliary latch pivotally carried by said main latch and cooperating with said toggle members to hold said main latch in latching position.

1,421,741. REFUSE BURNER. JAMES T. STODDARD, Portland, Oreg. Filed Sept. 20, 1917. Serial No. 192,276. 5 Claims. (Cl. 110—18.)



1. A refuse burner comprising a hearth a shell having an open top and a flared base surmounting and surrounding the hearth and in closed juxtaposition thereto, in combination with a foraminous intermediate zone in the shell.

1,421,742. MAGAZINE PENCIL. JOHN STRAKA, Chicago, Ill., assignor of one-half to Joseph R. Lewis, Chicago, Ill. Filed Oct. 16, 1920. Serial No. 417,432. 8 Claims. (Cl. 120—17.)



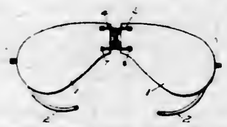
6. A pencil comprising a casing, a stationary, transversely slotted tube therein, the ends of the slots being closed and one of the ends of the slots being inclined, a lengthwise slotted reciprocatory plunger actuating tube slidably mounted in said stationary tube, and a lead feeding plunger slidably mounted in said reciprocatory tube and having a laterally extending depressible part projecting through the slot of said reciprocatory tube and arranged to engage in the slots of said stationary tube.

1,421,743. PROCESS FOR THE MANUFACTURE OF PRODUCTS FROM ACETYLENE. BERNHARD CONRAD STUER and WALTER GROB, Aachen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Nov. 11, 1916. Serial No. 130,928. 14 Claims. (Cl. 260—53.)

1. A process for the manufacture of products from acetylene which comprises passing acetylene in conjunction with another reaction gas over a hydrated metal compound at a temperature of 250° to 500° C.

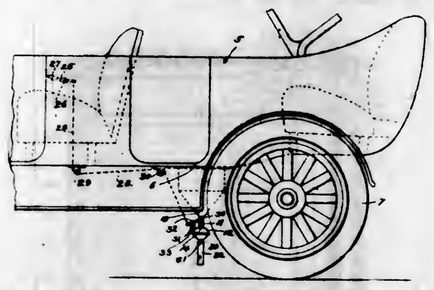
5. A catalyst for effecting reactions with acetylene containing an iron compound and hydrated alumina.

1,421,744. EYE PROTECTOR. HARRY H. STYLL, Southbridge, Mass. Original application filed Dec. 9, 1919, Serial No. 343,535. Divided and this application filed Dec. 3, 1920. Serial No. 428,658. 6 Claims. (Cl. 88—43.)



1. A device of the character described comprising a pair of members centrally rigidly united and having their ends extending outwardly, the two ends of one member being secured to one lens of a mounting and the two ends of the other being secured to the other lens.

1,421,745. SAND-DELIVERY DEVICE FOR VEHICLES. JASON C. TAYLOR, Los Angeles, Calif. Filed Dec. 18, 1920. Serial No. 431,551. 3 Claims. (Cl. 291—25.)



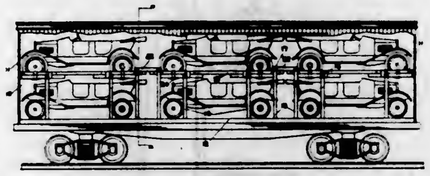
1. A device of the class described, comprising a sand hopper mounted on a vehicle and adapted to receive a frictional material, a tube extending from the bottom of said hopper, a casing surrounding said tube, a valve mounted in said casing adapted to open and close the end of said tube and spread said frictional material when flowing therethrough, a delivery tube mounted for universal movement at the bottom of said casing, means for resiliently supporting said second mentioned tube, and means under the control of an occupant of said vehicle for operating said valve.

1,421,746. DOOR-SECURING DEVICE. HAROLD THORNE, New York, N. Y. Filed June 23, 1921. Serial No. 479,714. 3 Claims. (Cl. 16—137.)



3. As articles of manufacture for use supplemental to a hinge, interlocking pairs of door and jamb plates, comprising a mortise plate and a tenon plate, each formed with an interengaging depressed portion open at one side and formed with a flat face to form an abutment.

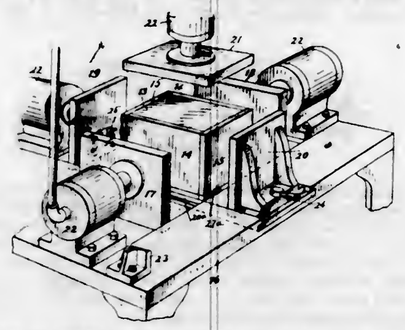
1,421,747. AUTOMOBILE DECKING. FRED H. THOMPSON and EDWARD HOLMES, Toledo, Ohio, assignors to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 3, 1921. Serial No. 442,105. 11 Claims. (Cl. 105—368.)



1. In an apparatus of the class described, a wheel support comprising a pair of parallel rails spaced the width of a wheel, a U shaped strap hung upon and between said rails so as to form a wheel stirrup, and means mounted upon and between said rails at either side of the stirrup for engagement with the periphery of the wheel.

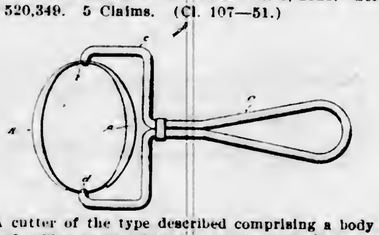
1,421,748. METHOD OF MAKING STORAGE-BATTERY CONTAINERS. THEODORE A. WILLARD, Cleveland Heights, Ohio. Filed Feb. 11, 1921. Serial No. 444,249. 10 Claims. (Cl. 18—56.)

1. The method of forming a multi-compartment hard rubber storage battery container which comprises placing uncured rubber in sheet form between a series of cores, placing uncured rubber in sheet form about the sides and over the bottom ends of the cores and the intervening



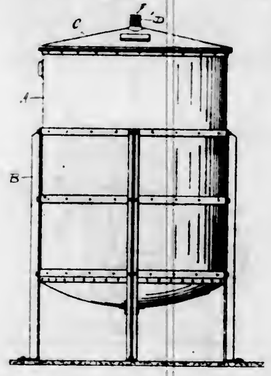
layers of rubber so as to form a core and rubber assembly, applying pressure laterally and vertically to the sides and top and bottom of the assembly, and vulcanizing the container after the compression step.

1,421,749. CAKE OR BISCUIT CUTTER. BENJAMIN S. WILLIAMS, Nashville, Tenn. Filed Dec. 6, 1921. Serial No. 520,349. 5 Claims. (Cl. 107—51.)



1. A cutter of the type described comprising a body of elliptical tubing having flaring outer edges, and a carrier comprising a handle and bearings engaging the transverse axis of said body.

1,421,750. PROCESS OF TREATING VEGETABLES IN PREPARATION FOR CANNING. WALTER WILLIAM WILLISON, Hastings, N. Y., assignor to Thermokept Products Corporation, New York, N. Y., a Corporation of Maine. Filed Aug. 30, 1920. Serial No. 406,932. 9 Claims. (Cl. 146—14.)



7. The herein described steps of washing and blanching vegetables which consists in subjecting said vegetables to warm water under a vacuum, and then suddenly breaking said vacuum.

1,421,751. COMPOSITION OF MATTER FOR PAVING BLOCKS, BUILDING BLOCKS, AND THE LIKE. GEORGE S. WRIGHT and CHARLES WESLEY WRIGHT, Philadelphia, Pa. Filed Aug. 6, 1921. Serial No. 490,313. 2 Claims. (Cl. 106—24.)

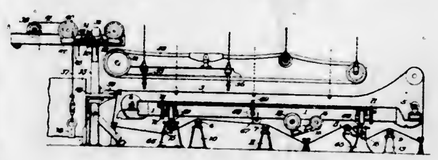
1. The herein described composition of matter for blocks and the like composed of fire clay, lime water, salt, asbestos cement, sand and graphite, commingled in substantially the proportions described.

1,421,752. PAPER-MAKING MACHINE. ALONZO ALDRICH and ALBERT L. LARSON, Beloit, Wis.; said Larson assignor to said Aldrich. Filed May 14, 1921. Serial No. 469,552. 47 Claims. (Cl. 92—44.)



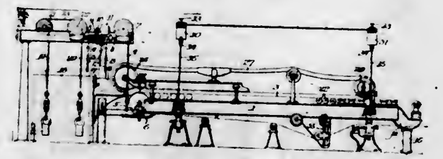
1. A Fourdrinier machine having a table adjustable laterally as an entity, power means attached to the table for moving the table laterally as a unit, and means for supporting the table in a laterally adjusted position.

1,421,753. PAPER-MAKING MACHINE. ALONZO ALDRICH, Beloit, Wis. Filed July 5, 1921. Serial No. 482,441. 5 Claims. (Cl. 92—45.)



1. The combination of a Fourdrinier table made in sections and having its feed end made vertically and horizontally adjustable, and having its other end made stationary and pivotally connected with the feed end, means for elevating the first mentioned section of the table and separate means for elevating the other end thereof, wheels on both parts or sections of the table, a power generator with power transmitting connection for driving said wheels, and tracks therefor, on which said wheels may travel.

1,421,754. PAPER-MAKING MACHINE. ALONZO ALDRICH, Beloit, Wis. Filed July 16, 1921. Serial No. 485,180. 17 Claims. (Cl. 92—44.)



1. In a machine of the class specified, the combination of a laterally movable table, and overhead means for lifting the front edge of the table and moving the table laterally.

1,421,755. CUSHION TIRE AND RIM THEREFOR. ULRICH ANDERSON, Wausau, Wis. Filed Feb. 25, 1920. Serial No. 361,086. 5 Claims. (Cl. 152—1.)

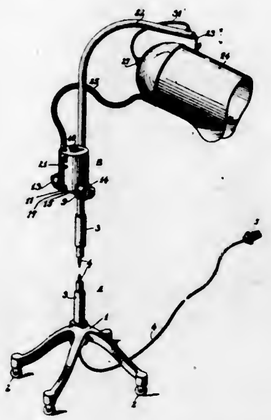
1. In combination with a tire having two inner circumferentially extending flanges; a transversely split rim hav-

ing a centrally disposed double walled flange and an upstanding marginal flange at each side thereof, said flanges



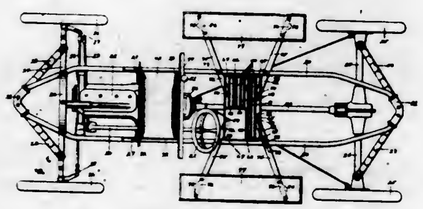
engaging and holding the flanges of the tire; and means for preventing expansion of the rim.

1,421,756. MASSAGE APPARATUS. CHARLES ARNAO, Brooklyn, N. Y. Filed Nov. 4, 1921. Serial No. 512,715. 10 Claims. (Cl. 174—177.)



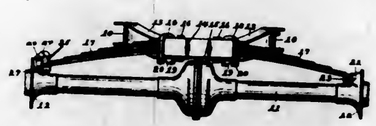
1. In a massage steamer, an open-ended hood for embracing the face; a steam supply connected with the interior of said hood; and a source of radiant energy within said hood for revitalizing the steam in its direct application to the face.

1,421,757. MOTOR VEHICLE. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 12, 1917. Serial No. 190,966. 11 Claims. (Cl. 280—106.)



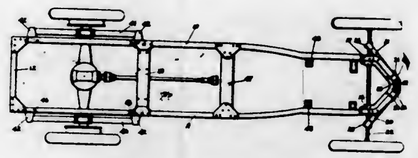
1. In a motor vehicle, the combination of a frame comprising a pair of longitudinally extending side bars; and a rigid box-like receptacle secured at its ends to said side bars intermediate the ends thereof, and forming a brace for the middle part of said frame.

1,421,758. SPRING SUSPENSION FOR VEHICLES. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 29, 1917. Serial No. 199,052. 26 Claims. (Cl. 267—54.)



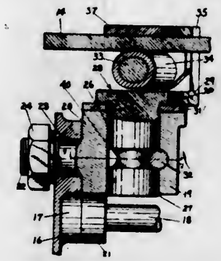
2. In a vehicle, the combination of a frame; an axle; a cantilever spring pivotally connected directly to the axle adjacent one end thereof; a link pivotally supported adjacent the other end of said axle; and a cantilever spring pivotally connected to the free end of said link, both of said cantilever springs being rigidly connected to said frame out of alignment with each other and near the longitudinal center line of the frame.

1,421,759. SPRING SUSPENSION. EDWARD H. BELDEN, Toledo, Ohio, assignor, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 6, 1919. Serial No. 269,806. 22 Claims. (Cl. 267—36.)



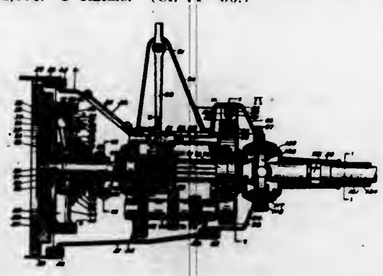
4. In a vehicle, the combination of a frame, front and rear axles, a pair of single arm cantilever springs connected to said front axle and converging forwardly to said frame, means for connecting said springs to said frame, a second pair of springs connected to the rear axle of the vehicle and extending longitudinally of the vehicle frame and means to connect said last mentioned springs and frame.

1,421,760. SPRING SUSPENSION FOR VEHICLES. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 13, 1919. Serial No. 270,885. 26 Claims. (Cl. 267—56.)



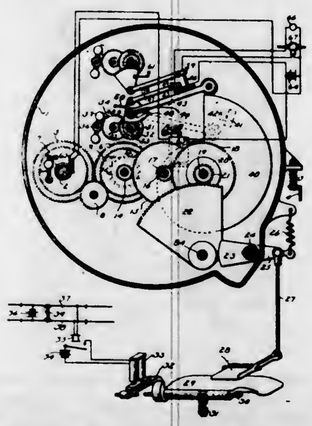
1. In a vehicle, the combination of a frame, an axle, spring supporting means mounted on said axle for rotation on a vertical axis, and a spring slidably supported by said supporting means and connected to said frame.

1,421,761. POWER-TRANSMITTING MECHANISM. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed July 19, 1917. Serial No. 181,556. Renewed Feb. 6, 1922. Serial No. 534,804. 3 Claims. (Cl. 74—56.)



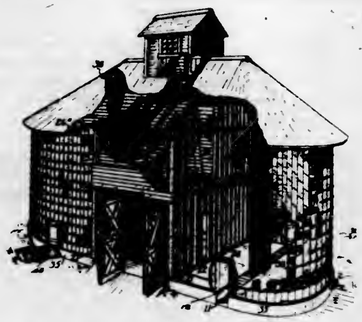
1. In a device of the class described, the combination of a driven member; a shaft; a clutch connecting said driven member and said shaft; transmission mechanism driven by said shaft; a propeller shaft; a universal joint connected with said transmission mechanism and connected with said propeller shaft by a slip joint; a casing housing said transmission mechanism and secured to the rear end of the engine casing; a transmission brake; a casing housing said transmission brake and secured to the rear end of said transmission casing; a casing for said propeller shaft provided with a ball shaped housing at its forward end, said transmission brake casing being provided with a socket adapted to receive said ball shaped housing; and a concave ring secured to said transmission brake housing and adapted to engage said ball shaped housing, whereby the casing for the propeller shaft has a universal connection with the rear end of said transmission brake housing.

1,421,762. TRAIN-CONTROL SYSTEM. ELI J. BLAKE, Buffalo, N. Y., assignor to Hall Switch & Signal Co., a Corporation of Maine. Filed Oct. 31, 1918. Serial No. 260,506. 14 Claims. (Cl. 246—182.)



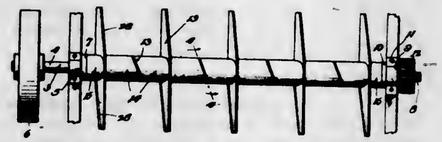
5. A controlling mechanism carried by a train comprising a member whose motion is proportional to the linear motion of the train, means independent of the movement of the train tending to move said member at an excessive speed, a synchronous motor adapted to control the movement of said member, and means controlled by the movement of the train to restrain said motor from motion other than synchronous with the motion of the train.

1,421,763. GRAIN CRIB. WARREN A. CALDWELL, Oskaloosa, Iowa. Filed May 31, 1921. Serial No. 474,025. 11 Claims. (Cl. 72—6.)



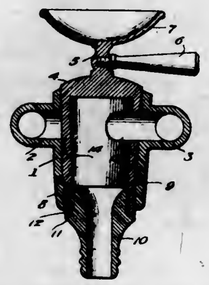
1. In a grain crib, in combination, crib sections spaced to provide an intermediate driveway, each section comprising an arcuate wall portion formed of a plurality of assembled stave units, an end wall closure adjacent the driveway, and means embracing the arcuate wall portion to maintain the unit stave members in assembled relation.

1,421,764. BAND CUTTER. SANDERS V. COCHRANE, Bridgetown, Tex. Filed June 30, 1921. Serial No. 481,602. 6 Claims. (Cl. 130—1.)



1. In band cutter mechanism, a rotatable shaft, spacing sleeves fitted onto the shaft and having their ends noncorrespondingly obliquely disposed, and knives interposed between the ends of the sleeves.

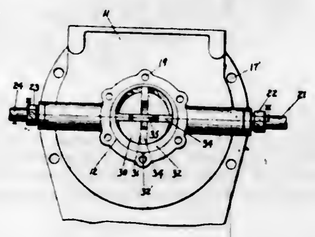
1,421,765. FAUCET VALVE. EMRY L. CUNNINGHAM, Sikeston, Mo. Filed June 15, 1920. Serial No. 389,122. 1 Claim. (Cl. 251—95.)



A faucet valve comprising a casing having both ends open and a pair of spaced inlet nipples, one of said nipples being connected with the hot water supply and the other with the cold water supply, a valve member fitted within said casing and formed to make a water tight fit therein, an upright supported by the upper end of said valve member and a handle secured to said upright, a soap cup

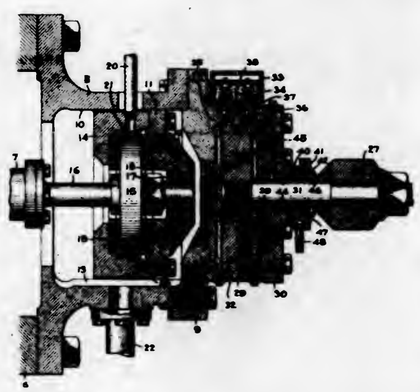
mounted on the top of said upright, said casing and valve having tapered formation and the lower end of said valve being screw threaded to receive a nut, a crimped steel washer located between the nut and the bottom of the casing, a nozzle fitted in the lower end of the valve member, a shoulder formed on said nozzle and a gasket located between the shoulder and the end of the valve member, the wall of said valve member having a slot formed therein of such a length as to leave a closure part of a size slightly greater than a half circle.

1,421,766. ROTARY PUMP. HENRY J. EDWARDS, Elyria, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 11, 1919. Serial No. 270,679. 7 Claims. (Cl. 103—44.)



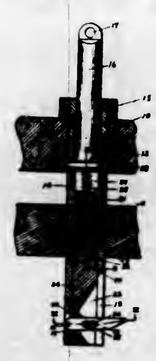
1. In a device of the class described, an eccentric chamber, a rotating drum positioned therein, and a plurality of pistons arranged in pairs and slidably positioned in said drum, the pistons of each pair being connected to each other by a leaf spring.

1,421,767. PACKING FOR MERCURY DASHPOTS. WILLIAM EDWARDS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 30, 1920. Serial No. 420,804. 3 Claims. (Cl. 188—100.)



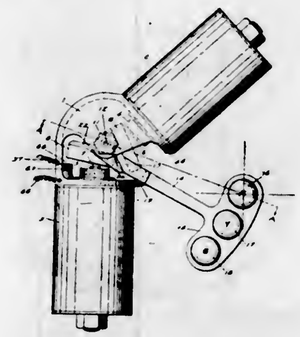
1. A dashpot comprising a cylinder, a piston therein having a rod which extends through the cylinder head, a reservoir, conduits for conveying liquid from the reservoir to the cylinder, and means for preventing leakage of air around the rod comprising two spaced packings having an annular chamber between them, and means defining a conduit which connects the chamber to the reservoir.

1,421,768. KINGBOLT. ALBERT EGBERT and EDWARD HOLMES, Toledo, Ohio. Filed Dec. 19, 1918. Serial No. 267,528. 6 Claims. (Cl. 85—3.)



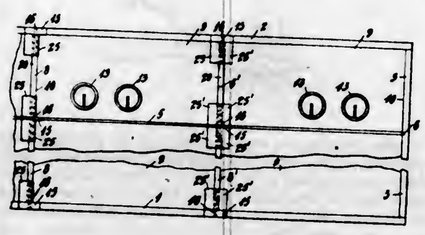
1. In a device of the class described, a sleeve, a slotted member slidably mounted in the sleeve, a pin carried by the sleeve and extending through the slot formed in said member, a spring co-operating with said pin and member for yieldably urging the member in one direction relative to the pin, a detent, and co-operating means carried by said sleeve and member for retracting the detent upon relative movement of the sleeve and member against the tension exerted by the spring.

1,421,769. THREE-POSITION OPERATING MECHANISM. OSCAR S. FIELD, Roselle, N. J., assignor to Hall Switch & Signal Co., a Corporation of Maine. Filed July 6, 1918. Serial No. 243,654. 2 Claims. (Cl. 246—223.)



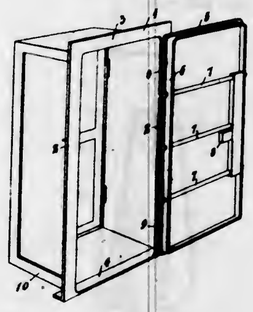
2. In a three position operating mechanism, two electromagnets, coacting armatures for said electromagnets, a movable element controlled by said armatures and biased to a neutral position, means whereby upon the energization of one of said electromagnets both armatures will be caused to move in unison to operate the movable element to one position, means upon the movement of the armatures for conditioning the circuit of the other electromagnet so that said electromagnet may be energized, and means whereby upon energization of said other electromagnet only one armature will be caused to move to operate the movable element to another position.

1,421,770. SAFETY-DEPOSIT CONSTRUCTION. JOSEPH FREIBERG and LEO F. WUBBOLDING, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 8, 1919. Serial No. 316,229. 29 Claims. (Cl. 109—7.)



1. In a construction of the character described, a case comprising a top and a bottom and sides and a back, formed of flat plates with their edges suitably joined at the corners of the case, transverse partitions or shelves extending from front to back and from side to side of the interior of said case and suitably secured to said sides and back, partitions extending upright between adjacent transverse partitions or shelves and extending to said back and suitably secured thereto, but terminating short of the front of said case, said transverse partitions or shelves having slots in front of the respective upright partitions, jambs extending from top to bottom of said case through said slots and retentively engaging said upright partitions, and closures abutting said jambs.

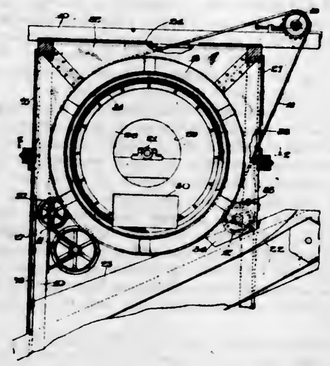
1,421,771. VAULT FRONT AND DOOR CONSTRUCTION. JOSEPH FREYBERG and LEO F. WUBBOLDING, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 18, 1919. Serial No. 318,230. 2 Claims. (Cl. 109—1.)



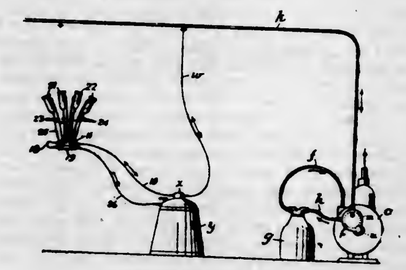
1. A vault front comprising a flat plate or sheet having an interior portion of the metal of said plate cut therefrom to form a door opening and having the lower end of said plate bent along the lower edge of said opening to form a door plate.

1,421,772. GREEN-PEA VINER. FRANK HAMACHER, Kewaunee, Wis. Filed Nov. 15, 1920. Serial No. 424,295. 8 Claims. (Cl. 130—30.)

1. In a green pea viner having a separating drum with end rings and screens and means engaging the end rings for supporting and rotating it, a guard for preventing the peas from being crushed by the supporting and rotating means consisting of a partition extending across the viner and fitted to an end ring of the separating drum between the engaged parts thereof and the screens.



1,421,773. MILKING-MACHINE SYSTEM. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed May 28, 1921. Serial No. 473,254. 6 Claims. (Cl. 31—101.)



1. A milking machine system comprising a pneumatic pulsation pipe line, a master pulsator adapted to create pneumatic pulsations in said pipe line, a milk pail, said pipe line connecting with the pail, means to prevent flow of air from the pipe line to the milk pail while allowing flow of air from the pail to the pipe line, a set of double chamber teat cups, a claw comprising a milk chamber and a valve chamber, the latter having an air port, pipe connections between the outer chambers of the teat cups and the valve chamber, a secondary valve in the valve chamber, said pipe line connecting with the valve chamber and controlling the secondary valve, a pipe connection from the inner teat cup chambers to the milk chamber of the claw, a pipe connection from the milk chamber of the claw to the pail, and an air connection between the valve chamber and the milk chamber, said valve adapted to connect each outer teat cup chamber alternately with atmosphere and through the last named connection with the milk chamber of the claw.

2. A milking machine system comprising a set of double chamber teat cups, a milk pail connected with the inner teat cup chambers, a pneumatic pulsation pipe line communicating with the milk pail, means to prevent flow of air from said pipe line to the pail, a master pulsator adapted to create pneumatic pulsations in said pipe line, a second-

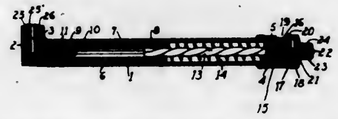
ary valve adapted to connect each outer teat cup chamber alternately with pressure and with the milk pail, said pneumatic pulsation pipe line connecting also with the secondary valve and controlling its operation, whereby in a single pipe line system the primary pulsations therein effect exhaust of air from the milk pail and from the inner chambers of the teat cups and operate a secondary valve to admit air to the outer chambers of the teat cups and exhaust air therefrom into the milk discharge.

4. A milking machine system comprising a primary pneumatic pulsation pipe line, a master pulsator adapted to create pulsations therein, a set of double chamber teat cups, a milk pail connected with the inner chambers of the teat cups, a secondary pulsator adapted to admit air to each teat cup and exhaust air therefrom to the milk pail, a casing forming an air passage communicating with the milk pail, a check valve between said air passage and milk pail normally preventing inflow of air from said passage to the pail and allowing outflow of air from the pail to said passage, and pipe connections from said air passage to the primary pulsation pipe line and to the secondary pulsator.

5. A milking machine system comprising a set of double chamber teat cups, a milk pail connected with the inner chambers of the teat cups, a secondary pulsator adapted to admit air to each teat cup and exhaust air therefrom to the milk pail, a pulsation pipe line, means whereby the pneumatic pulsations in the latter control the operation of the secondary pulsator and exhaust air from the milk pail, a vacuum pump, a master pulsator applied direct to the pump and connected with a source of pressure and with the pulsation pipe line, a vacuum reservoir and stabilizer, and pipe connections therefrom to the master pulsator and to the pump respectively, the master pulsator operating to connect the pulsation pipe line alternately with the vacuum reservoir and stabilizer and with pressure.

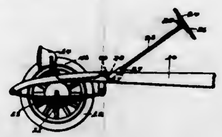
6. A milking machine system comprising a set of double chamber teat cups, a milk pail connected with the inner chambers of the teat cups, a secondary pulsator adapted to admit air to each teat cup and exhaust air therefrom to the milk pail, a pulsation pipe line, means whereby the pneumatic pulsations in the latter control the operation of the secondary pulsator and exhaust air from the milk pail, a vacuum pump, a master pulsator comprising a valve seat applied to the pump and a valve operating on said seat and connected with a source of pressure, the pulsation pipe line being connected with the valve seat, a vacuum reservoir and stabilizer, pipe connections therefrom respectively to the valve seat and to the vacuum chamber of the pump, there being ports and passages in the valve and valve seat adapted in the operation of the valve to connect the pulsation pipe line alternately with the vacuum reservoir and stabilizer and with said source of pressure.

1,421,774. PRESSURE GAUGE. HARRY E. HARDER, St. Louis, Mo., assignor of one-half to William F. Leschen, St. Louis, Mo. Filed Apr. 7, 1919. Serial No. 288,150. 8 Claims. (Cl. 73—111.)



1. A pressure gauge comprising a barrel, a rotatable pressure indicator having a thrust-receiving abutment, a rotary driver having an abutment adapted to engage said thrust-receiving abutment on but one side to transmit rotary movement in only one direction to said rotatable indicator, said rotary driver being movable in the opposite direction independently of said indicator, a spiral member operatively connected to said driver and extending longitudinally of said barrel, and a fluid actuated plunger located in said barrel and cooperating with said spiral member to impart rotary movement to said driver.

1,421,775. HEADLIGHT-CONTROLLING MECHANISM. WILLIAM F. HARRINGTON, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 29, 1917. Serial No. 199,042. 12 Claims. (Cl. 240—41.)



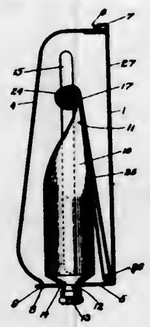
1. The combination with a motor vehicle provided with a steering column, of a headlight supported on said motor vehicle and provided with a reflector tiltable about a horizontal axis; a headlight control column disposed within said steering column; means for rotating said control column; and connections between said control column and said reflector, whereby the rotation of said control column will tilt the reflector.

1,421,776. MATERIAL FOR ARTIFICIAL INTERNAL MEMBERS OF THE HUMAN BODY. FRIEDRICH HAUPTMEYER, Essen, Germany. Filed Sept. 3, 1920. Serial No. 408,083. 5 Claims. (Cl. 32—12.)



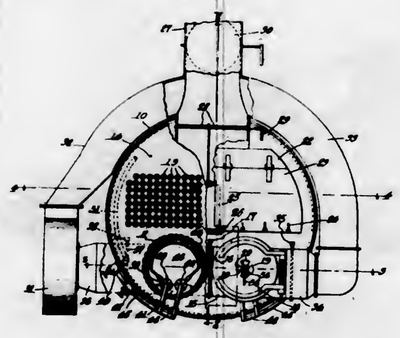
5. As a new article of manufacture, an artificial member to be used internally for living organisms made up of a chromium-nickel-steel alloy having the composition chromium 18 to 23 per cent, nickel 5 to 10 per cent, carbon .1 to .4 per cent.

1,421,777. DISPENSING DEVICE. JOEL E. HAWLEY, Kansas City, Mo., and ARTHUR W. CAPS, Topeka, Kans., assignors of one-fourth to William Jackson Riley, Kansas City, Mo. Filed Mar. 17, 1921. Serial No. 453,090. 3 Claims. (Cl. 221—60.)



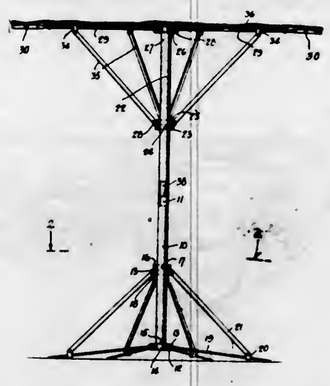
1. A material expressing device for flexible tubes comprising a cabinet, aligning, vertical grooves in the respective side walls thereof, means for supporting a paste containing tube having an open end and a closed end, a roller in the groove, means for rotating the roller to wind the closed end of the tube progressively about the roller to progressively apply pressure from the closed end of the tube toward the front end thereof, and an anchoring means for the roller comprising an anchor and a flexible connection adapted to wind upon the roller co-extensively with the winding of the tube thereabout.

1,421,778. BOILER. MAURICE J. HEALY, West Hoboken, N. J. Filed Apr. 28, 1921. Serial No. 465,183. 6 Claims. (Cl. 110—40.)



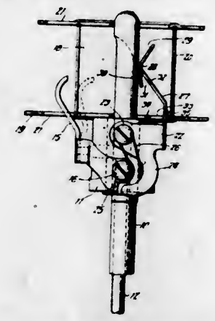
2. In a boiler, a shell, a plurality of separate combustion chambers in the shell, a corresponding number of sets of flues connected with the rear ends of the separate combustion chambers and extending to the forward end of said shell, a smoke box serving to connect the sets of flues at their forward ends, an air box connecting the forward ends of the combustion chambers, and means to withdraw gas from one end of the air box and force the same into the opposite end of the air box.

1,421,779. FOLDABLE CHAIR OR THE LIKE. WILLIAM HEERLING, New York, N. Y. Filed Dec. 24, 1921. Serial No. 524,657. 2 Claims. (Cl. 45—11.)



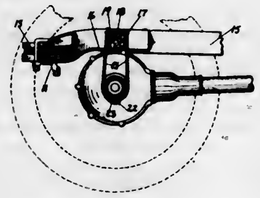
1. An article of furniture comprising a center post, a head therefor including a spider fixed to the upper end of the post, a plurality of ribs pivoted to the spider and radiating therefrom outward in a plane perpendicular to the post in operative position, each of said ribs comprising a plurality of sections articulated together around a horizontal pivot, one section of each rib being foldable upward and inward upon the other for use of the device as a chair, the jointed portions of each rib having interlocking connections on opposite sides of the pivot, one of said connections being positive to limit the movement of one section with respect to the other while the other interlocking connection comprises one member snapping into another, and braces between the ribs and the post.

1,421,780. RIBBON MECHANISM FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Dec. 22, 1920. Serial No. 432,405. 17 Claims. (Cl. 197—160.)



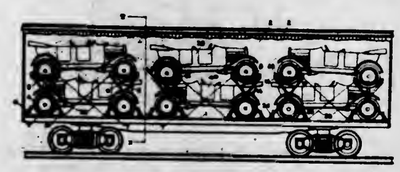
1. Ribbon mechanism for typewriters comprising a ribbon spool support, a device connected with said support and controlled by the ribbon on said spool, and means for automatically positioning said device relative to said spool prior to engagement between said device and spool when said spool is placed upon said support.

1,421,781. WIRE TIE. EDWARD HOLMES, Toledo, Ohio. Filed Aug. 30, 1920. Serial No. 407,022. 7 Claims. (Cl. 267—1.)



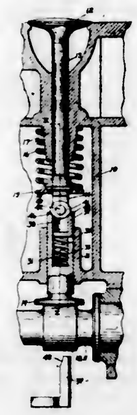
1. Means for holding compressed the springs of an automobile, comprising an element carried by the frame of the automobile, a holder made of resilient metal, adapted to bear upon the top of said element and having sides extending downwardly upon the opposite sides of the automobile axle, the ends of said holder being bent toward each other beneath the axle and provided with interlocking means adapted to be automatically engaged by pressure of the said ends together.

1,421,782. DECKING APPARATUS FOR VEHICLES. EDWARD HOLMES, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 7, 1921. Serial No. 443,312. 19 Claims. (Cl. 105—368.)



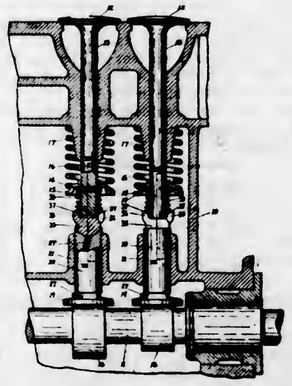
1. In a decking system for automobiles or the like, the combination of end supporting members, and transverse frame members connecting the end members together, the said end members comprising diagonally disposed standards crossing each other at a point intermediate their ends.

1,421,783. AUTOMATIC TAKE-UP DEVICE. FRANCIS JERDONE, Jr., Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 24, 1919. Serial No. 278,769. 14 Claims. (Cl. 123—90.)



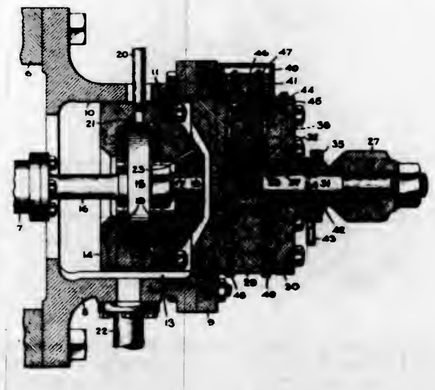
1. In an automatic take-up device, the combination with the valve stem and push rod of an internal combustion engine, a cam shaft for actuating said parts, a cam between said valve stem and push rod, a spring carried by the push rod within a recess formed therein, and a cam operating member disposed between said spring and cam for actuating the latter to compensate for lost motion between the valve and cam shaft.

1,421,784. AUTOMATIC TAKE-UP DEVICE. FRANCIS JERDONE, Jr., Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 24, 1919. Serial No. 278,770. 17 Claims. (Cl. 123—90.)



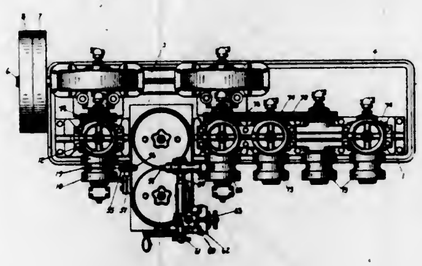
1. In an automatic take-up device, the combination with two or more members to be actuated, and a spring actuated member interposed between the first mentioned members and rotatable about an axis extending transversely to and intersecting the longitudinal axis of the members to be actuated and tending to move the same in opposite directions.

1,421,785. VIBRATION DAMPER. OSCAR JUNGGREN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 24, 1920. Serial No. 353,753. 19 Claims. (Cl. 188—91.)



1. The combination with a rotor which is subject to axial vibrations, of thrust absorbing means connected to the rotor, said thrust absorbing means being capable of axial movement, a dashpot, and means connecting the movable member of the dash pot to the thrust absorbing means.

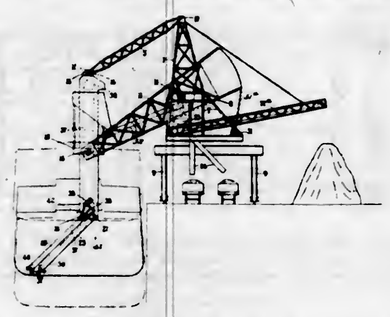
1,421,786. TUBE-WELDING MACHINE. EDWARD KAMPER, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed June 26, 1919. Serial No. 306,832. 23 Claims. (Cl. 78—87.)



1. In a tube welding machine, a pair of feed rolls, a pair of co-operating pressure rolls, means for mounting said pressure rolls, means for clamping said pressure rolls together and means engaging said first means for yieldingly positioning said pressure rolls relative to said feed rolls.

1,421,787. ELEVATOR. COLIN PETER KININMONTH, Manchester, England, assignor to Henry Simon Limited, Manchester, England. Filed Mar. 21, 1922. Serial No. 545,579. 3 Claims. (Cl. 198—117.)

1. In a device of the kind described, a vertical elevator, a parallel motion support for said elevator and having swivelling connection thereto to permit rotation of the elevator on its vertical axis, a leg at the bottom of said elevator including a pair of members pivoted to the elevator and arranged to swing in constant parallel position to each



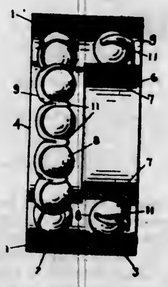
other, and a bucket chain carried by said members and extending at their free ends between the two members.

1,421,788. AUTOMOBILE BODY. WILBERT F. KINCAID, Gauley Bridge, W. Va., assignor of one-half to Albert H. Mason, Gauley Bridge, W. Va. Original application filed Sept. 3, 1920, Serial No. 407,919. Divided and this application filed Apr. 9, 1921. Serial No. 460,012. 1 Claim. (Cl. 280—124.)



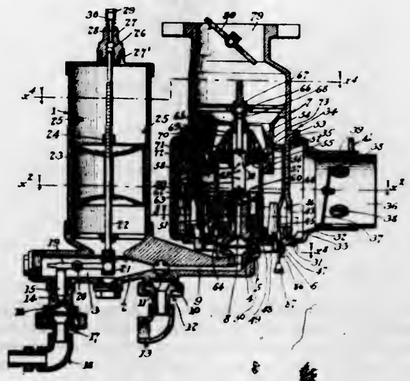
In an automobile, the combination of a chassis including transverse bolsters, longitudinal sills secured rigidly on said bolsters at the ends thereof, transverse bars secured rigidly on said sills, longitudinally extending springs mounted on the ends of said transverse bars, a body including a platform extending over the bolsters or sills and the transverse bars, and detachable fastenings inserted through the depending side members of the platform and the end eyes of the springs.

1,421,789. BEARING. HARFORD C. KNOWLES, Elmira, N. Y., assignor, by mesne assignments, to The Willys-Morrow Company, Inc., a Corporation of Ohio. Filed Feb. 21, 1916. Serial No. 79,645. 6 Claims. (Cl. 64—50.)



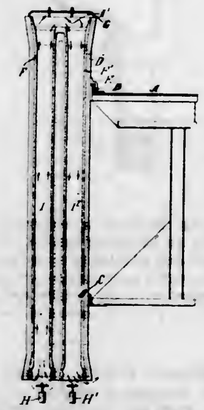
6. An annular bearing comprising inner and outer rings provided with opposite ball races, balls disposed in said races and an annular spacer having a base ring contacting with each of said balls at a single point in line with the axis of the revolution of the corresponding ball and provided with a plurality of fingers projecting from the base ring in a direction approximately parallel to the axis of the bearing, the free extremities of the fingers being yieldable radially of the bearing and each adapted to engage adjacent balls on the side opposite the said ring contact.

1,421,790. CARBURETOR. HERBERT V. LEAHY, Los Angeles, Calif., assignor to Hercules Carburetor Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 14, 1919. Serial No. 289,981. 3 Claims. (Cl. 261—66.)



2. In a carburetor, the combination of a fuel chamber, a nozzle mounted on the upper end of the fuel chamber, a post extending into the fuel chamber and having a fuel duct, a valve to control the fuel duct and projecting into the nozzle, and a chambered stem for the valve having a port communicating with the fuel chamber and another port communicating with the interior of the nozzle.

1,421,791. METHOD OF DRYING MOLDS. LOUIS R. LEMOINE, Philadelphia, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed May 27, 1921. Serial No. 473,101. 6 Claims. (Cl. 22—87.)



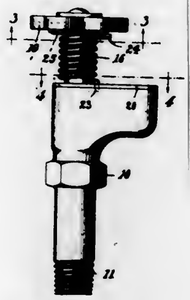
1. The method of drying molds which consists in connecting a plurality of molds in series and passing drying gases through the connected molds from one end to the other of the connected series.

1,421,792. COMBINATION RATCHET TOOL. ALFRED R. LINDEN, Dorchester, Mass., assignor of one-half to Sarah W. Campbell, Newton, Mass. Filed Aug. 2, 1921. Serial No. 489,337. 14 Claims. (Cl. 81—60.)



1. A tool comprising two coaxial members, and means operable to permit relative rotation of said members in one direction, and to prevent relative rotation of said members in the other direction, each of said members being provided with an aperture for the reception of a lever bar.

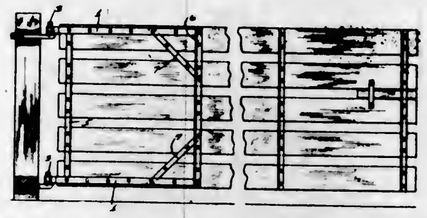
1,421,793. PRIMING VALVE. ROBERT W. LINLEY and PHILLIP B. LINLEY, Fairfield, Conn. Filed Jan. 14, 1921. Serial No. 437,314. 3 Claims. (Cl. 123—187.5.)



1. A priming cup including a reservoir, a valve and valve stem having an operating handle, a cover pivoted upon the valve stem and adapted to close the reservoir, and a spring upon the valve stem having one of its ends in frictional engagement with the handle and its other end directly secured to the cover, to open and close the same.

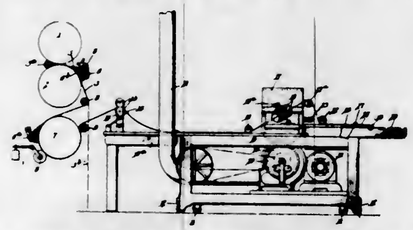
1,421,794. FARM-GATE HINGE. ROBERT MCLAUGHLIN, Monmouth, Ill., assignor of one-half to A. G. Patton, Monmouth, Ill. Filed Nov. 15, 1920. Serial No. 424,151. 2 Claims. (Cl. 39—87.)

1. The combination with a gate, upper and lower hinges connected thereto and extending forward a distance equal to approximately the depth of said gate, a pair of vertical struts secured to the gate near the rear end thereof, a second pair of struts secured to said gate at the forward



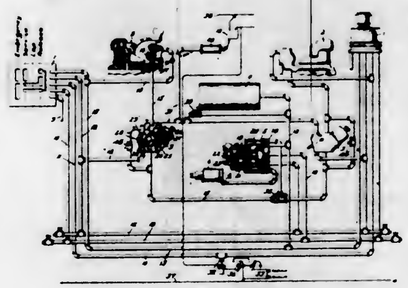
end of said hinges, said hinges being connected to said struts, and members bracing said hinges with one pair of struts whereby a rectangular trussed frame is provided.

1,421,795. APPARATUS FOR PRODUCING THIN RUBBER SHEETS. OTTO H. MACKLIN, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 16, 1921. Serial No. 452,884. 13 Claims. (Cl. 18—10.)



1. Apparatus of the class described comprising calender means for forming rubber compound into a thin sheet, means associated with the calender means for applying powdered material to the sheet being formed thereby, and means for removing the surplus powder from the surface of the sheet.

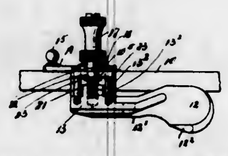
1,421,796. SAFETY CAR-CONTROL EQUIPMENT. GEORGE MACLOSKIE, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Feb. 19, 1921. Serial No. 446,433. 9 Claims. (Cl. 303—6.)



1. In a safety car control equipment, the combination of a source of fluid pressure, a brake cylinder, a safety control pipe, a valve device operated by venting fluid from said safety control pipe for establishing communications between said source and brake cylinder, a controller handle, a pilot valve operated upon the release of said handle for venting fluid from said control pipe, a fluid operated power circuit breaker, and a manually controlled valve adapted to control the communication through said control pipe and

the communication to said circuit breaker so that when said valve is in one position said valve device is operated to apply the brakes when said controller handle is released and said circuit breaker is closed, and when in another position said circuit breaker is opened and the release of said controller handle does not affect the operation of said emergency valve to apply the brakes.

1,421,797. PRESSER-FOOT ATTACHMENT FOR SEWING MACHINES. EDWARD J. MALONEY, Long Island City, N. Y., assignor to Andrew Wolf, New York, N. Y. Filed Dec. 6, 1920. Serial No. 428,432. 2 Claims. (Cl. 112—235.)



1. In a presser foot attachment for sewing machines, the combination with a supporting arm, of a presser foot, a screw bolt rotatively supported in said arm so as to be held against relative upward movement and working in said foot and guide pins for guiding said foot vertically.

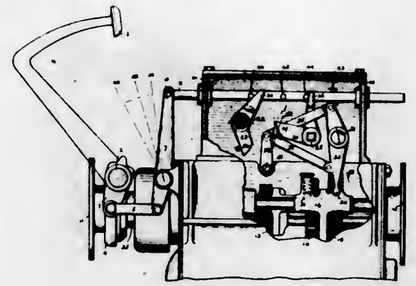
1,421,798. STORM-SASH FASTENER. WILLIAM MANDEL, Minneapolis, Minn. Filed Feb. 5, 1921. Serial No. 442,803. 2 Claims. (Cl. 292—262.)



1. A storm sash fastener comprising a rod having a curved outer portion, an eye member adapted to be secured to the middle of the lower sash member, said curved portion extending slidably through said eye member, a pin adapted to be secured to the middle of the window sill, and a looped portion on the inner end of said rod for engagement with said pin for holding the sash in open position, said pin being also adapted for engagement by said curved portion for holding the sash in closed position.

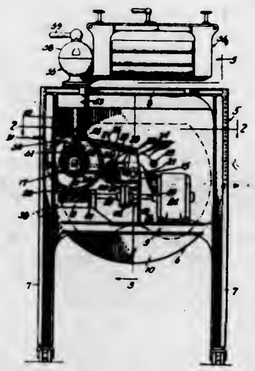
1,421,799. CHANGE-SPEED-GEAR MECHANISM. HENRY J. MANSELL, Oakland, and CONRAD D. FRY, Alameda, Calif. Filed Aug. 12, 1920. Serial No. 403,164. Renewed Mar. 9, 1922. Serial No. 542,481. 6 Claims. (Cl. 74—58.)

1. In gear shifting mechanism a plurality of gears constructed and adapted to be engaged in any of a plurality of combinations, a lever and connections for each combination, a plurality of cams adapted to actuate said levers to disengage any existing gear combination, a selector movable opposite to any of said levers and adapted when operated in said position to cause the



movement of the corresponding lever to establish a gear combination, and a pedal and connections actuating said cams and thereafter operating the selector to shift one of the levers depending upon its selected position.

1,421,800. GEARING. THOMAS H. MARS, Chicago, Ill., assignor to Federal Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 19, 1920. Serial No. 359,979. 4 Claims. (Cl. 74—50.)

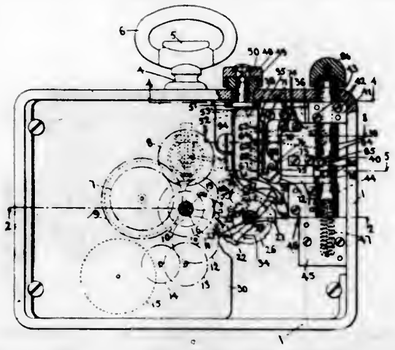


1. In combination with a support including a bracket having an upright back flange and top and bottom platforms, an oscillating operating shaft journaled in said back flange and top platform, a crank arm loose on said operating shaft, means for operatively connecting and disconnecting said crank arm to said operating shaft, a second shaft on the top platform parallel with the operating shaft, a gear on said second shaft and a pitman connecting said gear with said crank arm, a motor on said bottom platform, and means between said platforms for operatively connecting the motor with the gear.

1,421,801. REPEATER TIMEPIECE. EDWARD A. MARSH, Newton, Mass., assignor to Waltham Watch Company, Waltham, Mass., a Corporation of Massachusetts. Filed June 13, 1921. Serial No. 477,046. 17 Claims. (Cl. 58—60.)

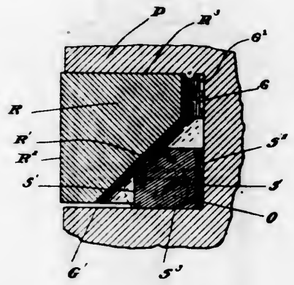
3. In a watch, a time movement including a hand-driving train adapted to be moved by setting the hands independently of said time movement, and a repeating

mechanism beside the time movement including a time element geared to said train to be actuated in unison



therewith, whether in running or in being set, and means cooperating with said element for giving invisible time indications.

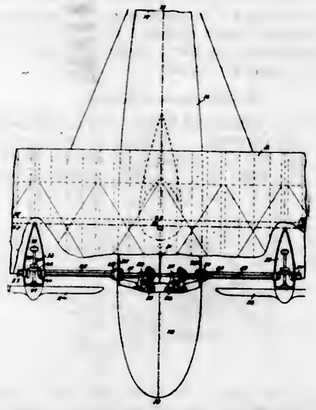
1,421,802. PISTON PACKING. LEWIS C. MARSHALL, Walpole, Mass., assignor to Pressure Proof Piston Ring Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 14, 1920. Serial No. 373,912. 1 Claim. (Cl. 74—109.)



The combination, with a circumferentially grooved piston, of a packing ring provided with a beveled interior face, a spring ring of drawn wire having substantially the cross-section of a square with a rounded corner, and retaining the original cross-section produced by drawing, the rounded surface bearing expansively against the beveled face of the packing ring, and one of the plane surfaces seating on a plane surface of the circumferential groove in the piston.

1,421,803. TRACTOR BIPLANE. JAMES V. MARTIN, Elyria, Ohio. Filed May 26, 1917. Serial No. 171,102. Renewed Nov. 18, 1921. Serial No. 516,246. 14 Claims. (Cl. 244—25.)

1. In a device of the class described, the combination with a motive power element and a tractor screw, a mounting for the tractor screw capable of slight movement relative to the power element, of a series of rigid shafts connecting said element to drive said screw, driving gear couplings between adjacent ends of certain of said shafts to permit relative movement of the axes of said adjacent shafts while maintaining a driving connection therethrough and enclosures for certain of said shafts, said

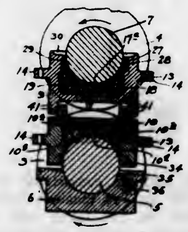


enclosures extending from front to rear of the device to provide stream line effects and means for flexibly connecting adjacent enclosures.

1,421,804. PROCESS OF REMOVING IRON FROM SOLUTIONS CONTAINING ALUMINIUM. THOR MEJDELL, Christiania, Norway, assignor to A/S Labrador, Christiania, Norway, a business entity of Christiania, Norway. Filed Feb. 27, 1920. Serial No. 361,808. 10 Claims. (Cl. 23—13.)

1. Process of removing iron from solutions containing an aluminium salt, which comprises adding a substance capable of neutralizing the acid liberated by hydrolysis in a quantity insufficient to neutralise all of said acid, and effecting precipitation of iron uncombined with other metals by heating.

1,421,805. LUBRICATING DEVICE FOR ROLLING MILLS. GEORGE E. MELOWN, McKeesport, Pa. Filed Nov. 5, 1920. Serial No. 422,090. 11 Claims. (Cl. 64—28.)

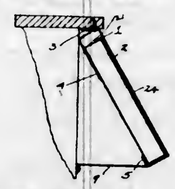


1. In a lubricating device for rolling mills, the combination with the housings, of rolls mounted therein, floating boxes for containing a lubricant held in proper position with reference to the necks of said rolls, and means for independently adjusting said boxes with respect to said roll necks.

1,421,806. DISPLAY ATTACHMENT FOR COUNTERS. WILLIAM O. MELVIN, Lakewood, Ohio. Filed July 1, 1921. Serial No. 481,751. 8 Claims. (Cl. 211—0.)

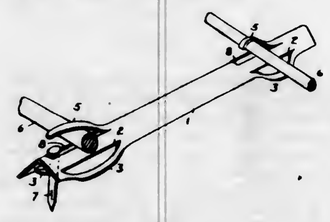
2. A display attachment for store fixtures comprising a casing provided with a series of display openings and having an inclined portion through which fastening means may be placed and series of inclined supporting strips at

the lower edge of said casing, an up-turned flange adjacent the base of said casing, and extending downwardly in the rear of each of said openings, a series of boxlike con-



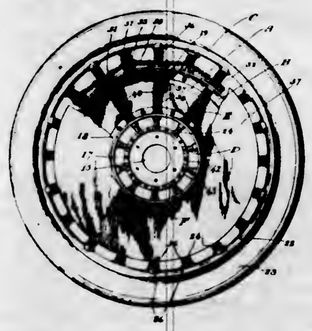
tainers provided with transparent covers and adapted to be seated within said up-turned flange and engaged by said resilient tongues.

1,421,807. SPACING BAR. FRITZ L. METZGER, Avalon, Pa. Filed Feb. 8, 1921. Serial No. 443,344. 5 Claims. (Cl. 72—122.)



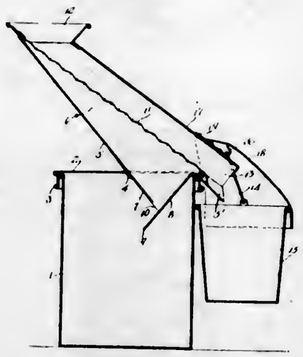
1. In a spacing bar for reinforced concrete construction, a V-shaped bar of ductile sheet metal having at opposite edges thereof a series of one-piece legs bent therefrom at the same side of the bar and integral therewith at both ends, the outer faces of the legs being arranged in the same plane whereby they may contact from edge to edge with a support therefor.

1,421,808. VEHICLE SPRING WHEEL. CARL MIETHE, Chicago, Ill. Filed June 13, 1921. Serial No. 477,179. 5 Claims. (Cl. 152—28.)



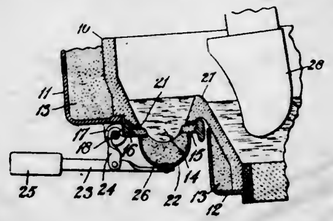
1. A spring wheel comprising a hub construction including a plurality of spaced annular bands, a felly construction surrounding the hub construction, a plurality of inwardly extending radially disposed spokes carried by the felly, the spaced bands formed on the hub construction having a plurality of slots therein arranged to receive the spokes, and shock absorbing springs coiled about said spokes and engaging respectively between the bands of the hub construction and between the outer band of the hub construction and the inner surface of the felly construction.

1,421,809. ASH SIFTER. PAUL MISCHKE, East Rutherford, N. J. Filed Oct. 22, 1921. Serial No. 509,477. 3 Claims. (Cl. 83—60.)



1. An ash sifter comprising a base having an opening on top, a chute arranged at an incline to the horizontal when in use, said chute being secured to said base and projecting through said opening, said chute having a bottom plate extending below the base and at right angles to the general direction of the chute, said chute adjacent the base having an opening so that ashes passing downwardly through said chute will strike said plate and be deflected so as to move at right angles through said opening whereby ash dust rising from beneath the chute cannot re-enter the chute, a wire mesh division member arranged in said chute so as to divide the chute into upper and lower compartments, the lower compartment acting as an ash guiding compartment and the upper compartment acting as a cinder guiding compartment.

1,421,810. CLOSURE FOR MOLTEN-GLASS OUTLETS. VERGIL MULHOLLAND, West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y., a Corporation of New York. Filed July 26, 1921. Serial No. 487,585. 14 Claims. (Cl. 49—14.)

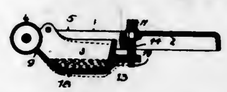


4. An insulating closure for the discharge outlet of a container for molten glass, comprising a holder provided with heat insulating material adapted to close the outlet, means for positioning the closure relative to the outlet, and means for yieldingly holding the closure against the outlet.

1,421,811. LIQUID-COATING MACHINE. EDUARD FELIX MÜLLER, Leipsig-Lindenau, Germany, assignor to E. A. Miller, Millvale Extension, Pa. Filed Apr. 8, 1922. Serial No. 550,782. 4 Claims. (Cl. 91—49.)

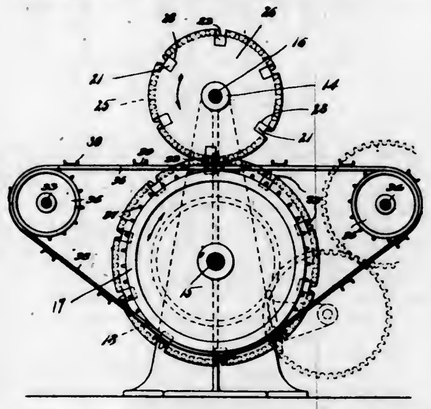
2. In a machine for applying a liquid coat on a surface, a roller, a frame connected to the ends of the roller, a

liquid-holding reservoir pivoted to the frame and having an opening close to the roller, and means for raising and



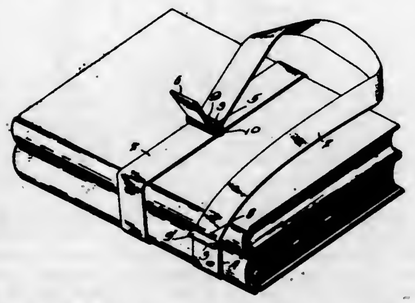
lowering the rear end of the reservoir to adjust the distance of the opening from the roller.

1,421,812. BROOM-BUNDLE-MAKING MACHINE. HARRY D. NEFF, Cambridge, Mass., assignor to Re-Fillt Broom Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 12, 1920. Serial No. 423,730. 5 Claims. (Cl. 300—12.)



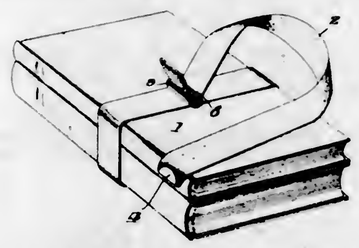
1. In a machine of the character described, the combination of a pair of positively driven wheels, a plurality of half dies, in the periphery of said wheels, the half dies in each wheel being adapted to successively register with each other during the rotation of the wheels and means for feeding broom bundles to said half dies.

1,421,813. STRAP FASTENER. CLYDE S. NONNEMACHER, Wenonah, N. J. Filed Sept. 10, 1921. Serial No. 499,739. 7 Claims. (Cl. 24—17.)



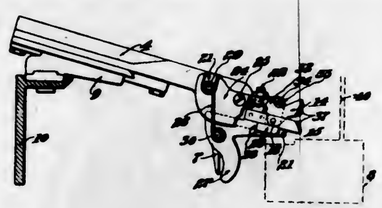
1. In a strap fastener device, the combination of a metal member having a slot therethrough, a strap having a looped portion extending through said slot and adapted to encircle an article to be held, said slot being of a width adapted to receive not more than twice the thickness of said strap, one of the ends of said strap having a lateral projection formed of a thickened portion of the strap material and on the face thereof next adjacent the opposite end portion, said projection extending toward and having the tip end thereof frictionally engaging the adjacent opposite face of said opposite end portion, and being adapted to be drawn toward said slot and between the two strap ends projecting therethrough.

1,421,814. STRAP FASTENER. CLYDE S. NONNEMACHER, Wenonah, N. J. Filed Mar. 23, 1922. Serial No. 545,963. 3 Claims. (Cl. 24—17.)



1. In a strap fastener device the combination of a metal member having a slot therethrough, the wall on one side of said slot being of greater depth than the correspondingly opposite wall of said slot, a strap having a looped portion extending through said slot and adapted to encircle an article to be held, one of the ends of said strap having a lateral projection on the face thereof which projection is adapted to engage said metal member and bind against the adjacent face of the opposite end of the strap which opposite end extends beyond said metal member to be pulled to tighten the device.

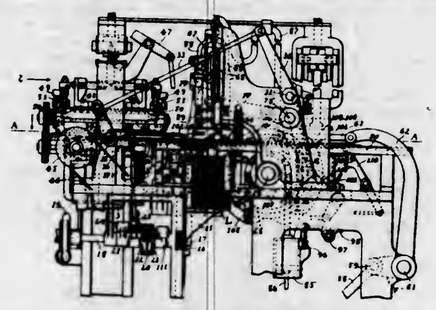
1,421,815. LOOM-TEMPLE THREAD CUTTER. JONAS NORTHROP, Hopedale, Mass., assignor to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed June 7, 1918. Serial No. 238,650. 8 Claims. (Cl. 139—36.)



1. A thread cutter for looms comprising a movable supporting member, cutter blades mounted thereon and capable of movement independently thereof, the cutter blades having beveled rear edges adapted to engage a strand of filling when the cutter blades are moved rearwardly in a closed position and to thereby position the filling under tension to be received between the blades when they are opened, and means for opening the blades at near the end of their rearward movement and for closing the blades at the beginning of their subsequent forward movement.

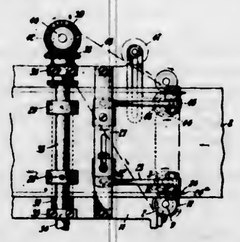
1,421,816. MACHINE FOR MAKING LINED ENVELOPES. ABRAHAM NOVICK, Brooklyn, N. Y., assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1920. Serial No. 415,225. 11 Claims. (Cl. 93—61.)

1. In an envelope machine for making lined envelopes, the combination of a support for a pile of envelope blanks, a lining blank receiving station, means for moving an envelope blank from said support to said lining receiving station, another support for a pile of lining blanks, and



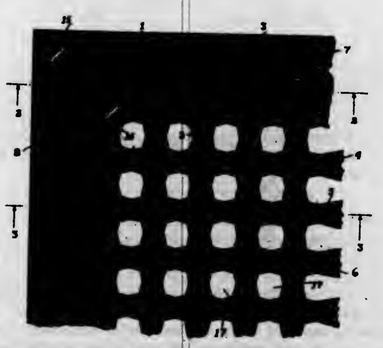
means for moving a lining blank in a rectangular path from said other support onto said envelope blank at the receiving station.

1,421,817. CREASING MECHANISM. ABRAHAM NOVICK, Brooklyn, N. Y., assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 1, 1921. Serial No. 457,735. 9 Claims. (Cl. 93—58.)



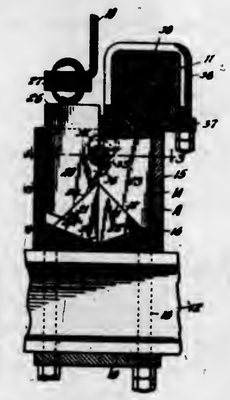
1. In a creasing mechanism the combination of a pair of peripherally coacting rolls, means for feeding paper or the like over the faces of said rolls transverse their axes, and means for forming in the paper an offset portion along a line and for guiding said portion into the field of coaction of said rolls, whereby the paper is folded upon itself along said line.

1,421,818. RUBBER MAT. CLIFFORD H. OAKLEY, Trenton, N. J. Filed Feb. 12, 1920. Serial No. 358,014. 9 Claims. (Cl. 15—215.)



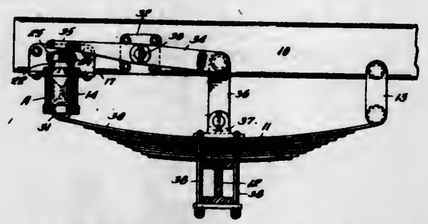
1. A mat comprising a plurality of separate strips woven together, said strips channeled to receive parts of other strips, the channels having varied widths throughout their lengths and interlocking with portions of correspondingly varying widths.

1,421,819. SHOCK ABSORBER. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 6, 1919. Serial No. 302,254. 7 Claims. (Cl. 267—9.)



1. In a shock absorber for vehicles having a body member, an axle, and a main spring interposed therebetween; a shock absorbing mechanism interposed between said spring and the axle and forming a support for the spring on the axle, said shock absorbing mechanism being arranged for direct actuation by said body member upon relative approach of said body member and axle beyond a predetermined amount.

1,421,820. SHOCK ABSORBER. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 6, 1919. Serial No. 302,255. 3 Claims. (Cl. 267—9.)

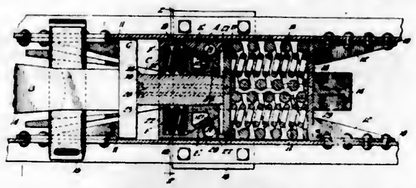


1. In a device of the character described, the combination with a vehicle body member, axle and spring interposed therebetween; of an auxiliary shock absorbing device including, a shell attached to the body member, a wedge, and friction shoes within the shell, said spring having one end thereof united to one of said elements; and independent means interposed between the axle and said device for actuating the latter after a predetermined relative approach of the axle and body member.

1,421,821. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 13, 1921. Serial No. 476,987. 7 Claims. (Cl. 213—64.)

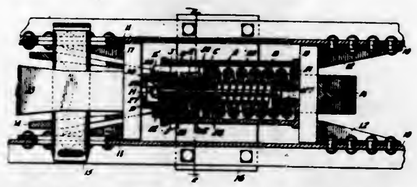
1. In a friction shock absorbing mechanism, the combination with a container provided on the interior with opposed wedge surfaces; of wedge-friction-shoes cooperable with said surfaces; spring means reacting between said container and said wedge-shoes normally tending to impel

the latter along said wedge surfaces; a friction plunger adapted to directly receive pressure at one end and fric-



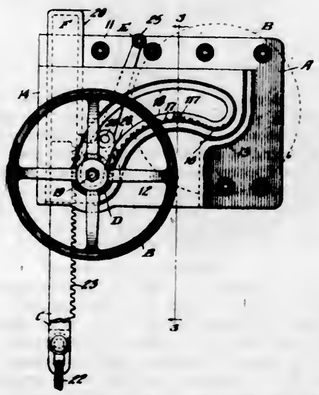
tionally slidable between said wedge-shoes; and a spring resistance cooperable with the opposite end of said plunger.

1,421,822. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 13, 1921. Serial No. 476,988. 6 Claims. (Cl. 213—64.)



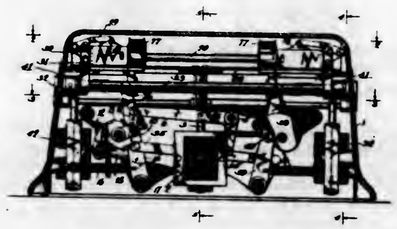
4. In a friction shock absorbing mechanism, the combination with a casting having integrally formed friction shell and spring cage sections each provided with cylindrical interior surfaces; of a main spring resistance within said cage; a wedge and a cooperating series of circularly arranged friction shoes within said shell; a spring follower within said casting located between said main spring resistance and the shoes and normally spaced from the latter, said spring follower being freely movable lengthwise within said shell and cage; a preliminary spring resistance interposed between said follower and the shoes; and means for maintaining a predetermined normal relation between said friction shoes and spring follower and an initial compression upon the preliminary spring and also for maintaining the overall length of the mechanism.

1,421,823. HAND BRAKE. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 30, 1921. Serial No. 481,556. 9 Claims. (Cl. 74—119.)



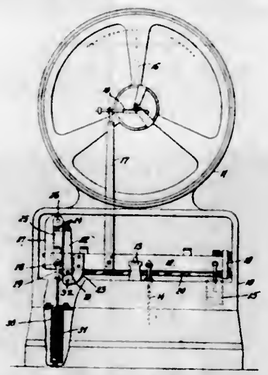
1. In a brake mechanism of the character described, the combination with a flexible element adapted to be connected at one end with the brake rigging proper and a rack by which said element is adapted to be pulled at its opposite end; of a fixed bracket having a rack extending for a portion of its length in a direction generally parallel to the initial line of pull on the flexible element and gradually changing to a direction generally transverse to said line of pull; a gear in mesh with both of said racks; means for rotating said gear; and means for locking the parts against a release movement.

1,421,824. TIME RECORDER. GEORGE WILLIAM ODELL, Binghamton, N. Y., assignor to The International Time Recording Company of New York, a Corporation of New York. Filed June 29, 1921. Serial No. 481,196. 5 Claims. (Cl. 234—43.)



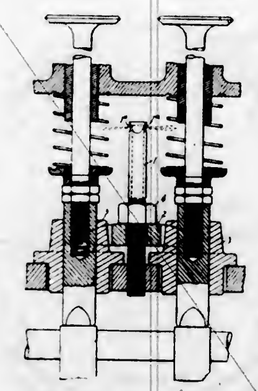
1. In a recording machine, four knives in positions to cut out sections of varying lengths from the side edges of a workman's card at the four corners, in combination with time-controlled means for advancing the knives to positions corresponding to fractions of an hour and working hours, and means controlled by a card inserted into the machine for operating the said knives first on the "on" side and subsequently on the "off" side of the card.

1,421,825. THERMOSTAT FOR PORTABLE SCALES. LOUIS A. OSGOOD, Dayton, Ohio, assignor to International Scale Company, Dayton, Ohio, a Corporation of Illinois. Filed Dec. 8, 1920. Serial No. 429,052. 6 Claims. (Cl. 265—69.)



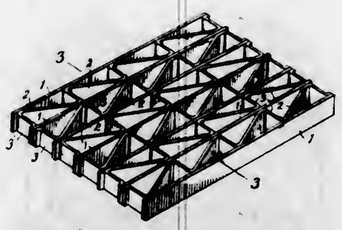
1. In a weighing scale in combination a scale lever, a pair of brackets carried thereby, a pair of connected swinging arms mounted to swing thereon, a thermostat connected to one of said arms and to said lever, a load counterbalancing spring, and a connection between the other of said arms and said spring, for the purpose described.

1,421,826. VALVE-STEM LUBRICATOR. EARL E. PARSLOW, San Diego, Calif. Filed May 6, 1921. Serial No. 467,412. 3 Claims. (Cl. 184—6.)



3. A device of the class described, including the combination with the intake and exhaust valves of a gas engine of a conductor interposed between said valve stems and its one end communicating with the interior of the crank case, its other end provided with oppositely disposed apertures facing toward said valve stem, comprising a hollow bolt threaded at one end, screwed in a threaded hole in the crank case and its extended end provided with apertures communicating with the interior of said bolt.

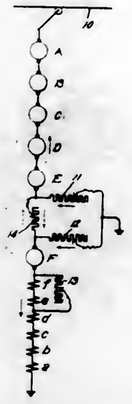
1,421,827. FLOOR GRATING. WILLIAM L. PATTISON, Rosedale, Kans. Filed Dec. 18, 1920. Serial No. 431,737. 4 Claims. (Cl. 94—30.)



1. In a floor grating a plurality of parallel bars, and an intermediate bar having a plurality of parallel obliquely disposed portions and a plurality of cross portions connecting adjacent ends of said oblique portions and attached at their ends and disposed at right angles to said parallel bars respectively, substantially as set forth.

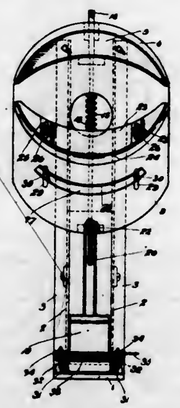
1,421,828. POWER TRANSMISSION AND ELECTRIC BRAKING. FRANKLIN H. PAITCHARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 11, 1920. Serial No. 409,639. 16 Claims. (Cl. 172—179.)

9. In a system of electric braking, a plurality of dynamo electric machines having severally armature and field windings, a portion of said machines operating as a self-excited exciter connected in a local circuit with the field windings of said machines, the armatures of the remainder of said machines operatively connected to each other, a resistor establishing a connection between the



said remainder of the armatures and the field windings of said machines, and a plurality of resistors in the said local circuit connected in multiple by the first resistor.

1,421,829. HOOP-FORMING MACHINE. WILLIAM W. PUTNEY, Grand Rapids, Mich., assignor of one-fourth to Charles E. Cartier and one-fourth to Edward M. Holland, Grand Rapids, Mich. Filed Aug. 9, 1919. Serial No. 316,289. Renewed Apr. 3, 1922. Serial No. 549,164. 6 Claims. (Cl. 144—258.)

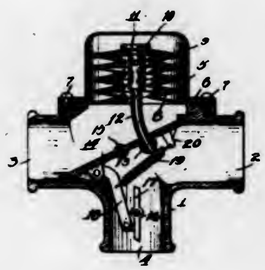


1. In combination, an upright support, a curved form secured at the upper end of the support, a plate slidably mounted on the support, a plurality of forms curved oppositely from the first form secured to the plate in vertical spaced relation, means tending to elevate the plate, means to operate the plate in a downward direction and means for controlling the extent of downward movement of the plate.

1,421,830. THERMOSTATIC DEVICE FOR COOLING SYSTEMS OF INTERNAL-COMBUSTION ENGINES. CHARLES L. RAYFIELD, Chicago, Ill., assignor to Beneke & Kropf Manufacturing Company, a Corporation of Illinois. Filed Oct. 2, 1919. Serial No. 328,022. 8 Claims. (Cl. 236—34.)

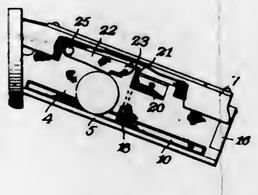
8. A device of the class described comprising valve means for controlling the flow of a fluid, a thermostat

mounted on one side of the valve means, and means connected to the thermostat and extending to the other side



of the valve means to afford a limited circulation therethrough and provide an operative connection between the thermostat and the valve means.

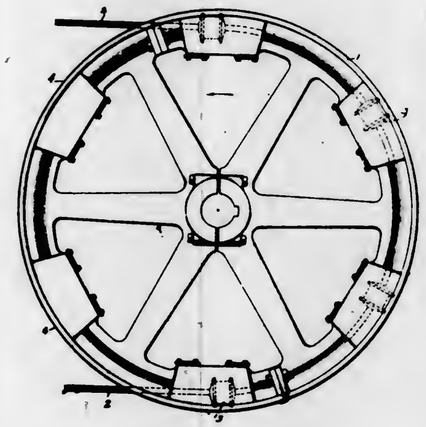
1,421,831. VENDING MACHINE AND THE LIKE. GEORGE C. REITH, Philadelphia, Pa., assignor, by mesne assignments, to National Sales Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1917. Serial No. 207,035. 6 Claims. (Cl. 194—102.)



1. In an apparatus of the type specified, a coin chute having a track for the coin, a movable member normally positioned at one side of said track and movable transversely across the track for clearing the same, means whereby said member may be operated to clear said track by the insertion of a coin into said chute, a gate occupying normally an out-of-the-way position with relation to said track but movable to occupy an engaging position in the path of a coin moving over said track, and means for locking said gate in its engaging position whereby the gate may be released to occupy its out-of-the way position by the approach to the gate of a coin of predetermined diameter, said movable member and gate being arranged whereby the gate may be moved into its engaging position by the operation of said movable member for clearing said track.

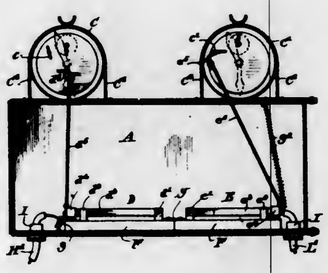
1,421,832. SPROCKET WHEEL. RALPH JAMES RILEY, Portland, Me. Filed Sept. 13, 1921. Serial No. 500,304. 4 Claims. (Cl. 74—42.)

1. A sprocket wheel having pockets spaced apart formed in the periphery of the wheel and between said pockets an annular channel, said pockets having guideways formed therein and wearing shoes adapted to fit into said guideways, said wearing shoes being tapered and each provided with a rectangular hole therethrough aligning with rectangular holes in the side faces of the



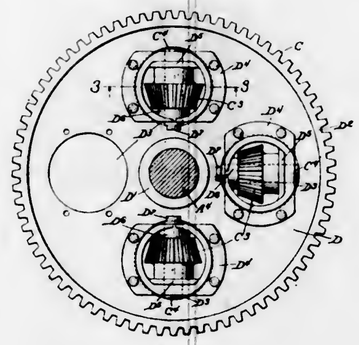
pocket for inserting a tapered pin therein for locking the wearing shoe in the guideways.

1,421,833. ELECTRIC TIME-SWITCH MECHANISM. ARTHUR R. ROSAMOND, Laramie, Wyo., assignor, by direct and mesne assignments, to Doris E. Soden, Kansas. Filed June 10, 1921. Serial No. 476,482. 1 Claim. (Cl. 200—39.)



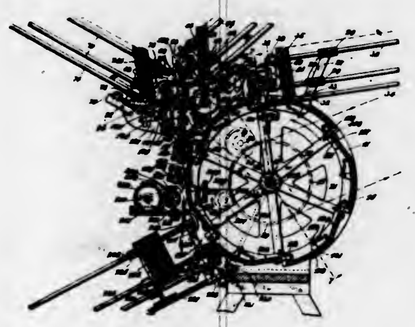
Electric time switch mechanism comprising two separately operable circuit controlling switches, a casing enclosing them, a piece of insulating fire-proof material on which the switches are mounted, two clocks mounted on the outside of the top of the casing and secured thereto, a spring associated with one of the switches and tending to open it, another spring associated with the other switch and tending to close it, a rod hinged to one of the switches and extending directly therefrom through the top of the casing and engaging the winding key of one of the clocks to hold said switch open and another similar rod hinged to the other switch and extending directly therefrom through the top of the casing and engaging the winding key of the other clock to hold the associated switch closed.

1,421,834. DIFFERENTIAL. JAMES ROSS, Laporte, Ind., assignor to Advance Rumely Company, Laporte, Ind., a Corporation of Indiana. Filed Mar. 9, 1921. Serial No. 450,814. 9 Claims. (Cl. 74—99.)



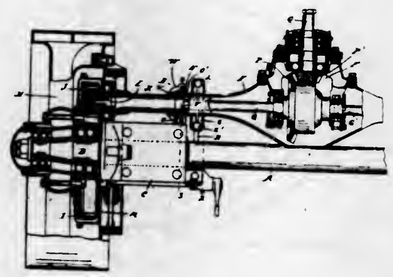
2. In a differential gear a plurality of separate pinion boxes flanged for attachment to the web of the gear, and pinions mounted for rotation in said boxes.

1,421,835. ENVELOPE FILLING AND CLOSING MACHINE. GEORGE F. RUSS, Jersey City, N. J. Filed Oct. 20, 1920. Serial No. 418,258. 25 Claims. (Cl. 93—6.)



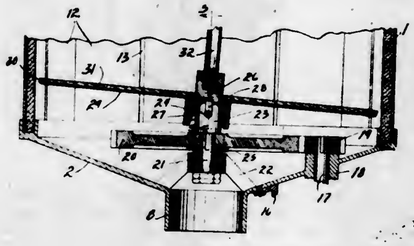
1. In a machine of the character described, the combination of a cylinder, means for rotating the same, an envelope holder, means for opening the flaps of the envelopes one at a time and laying the flap upon the periphery of the rotating cylinder, means attached to the cylinder for gripping such flap and drawing the envelopes from the holder, and means for inserting articles into the envelopes as it is drawn along.

1,421,836. VEHICLE AXLE. ALBERT W. RUSSEL, Detroit, Mich., assignor to Russel Motor Axle Company, Detroit, Mich., a Corporation of Michigan. Filed May 29, 1919. Serial No. 300,673. 12 Claims. (Cl. 180—73.)



1. In a vehicle axle, the combination with a dead or load-carrying axle member, of spring supports mounted thereon, a jack-shaft housing extending between said spring supports, and universal bearings for said housing on said spring supports.

1,421,837. VEGETABLE-PARING MACHINE. FRANK M. SCHAEFER, Chicago, Ill., assignor, by direct and mesne assignments, of one-half to C. M. Bentley, Chicago, Ill., and one-half to Schaefer-De Lude-Wallace Company, a Corporation of Illinois. Filed Nov. 5, 1919, Serial No. 335,852. Renewed Dec. 7, 1921. Serial No. 520,692. 10 Claims. (Cl. 146—14.)

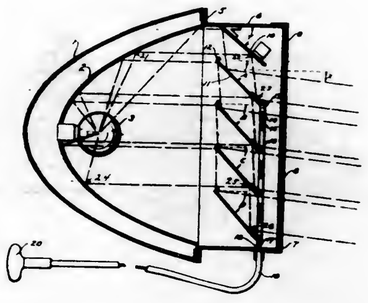


2. A vegetable paring machine comprising an abrasively lined casing, and an eccentrically controlled rotatable inclined abrasive disk removably disposed therein.

1,421,838. ILLUMINATING MECHANISM. DON W. SCHAEFFER, Dayton, Ohio. Filed Jan. 31, 1921. Serial No. 441,136. 2 Claims. (Cl. 240—45.2.)

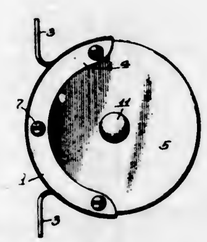
1. The combination with a headlight having a reflector and a source of illumination, of a series of deflecting and reflecting plates pivotally mounted at one edge forwardly of the source of illumination and arranged in spaced relation, extensible means connecting each plate to adjacent plates to permit the free edges of the plates to be adjusted relatively to one another, a stationary

deflecting plate arranged above the series of pivoted plates for constantly directing a portion of the light rays downwardly, and operating means associated with



said plates and extending from the same to permit said pivoted plates to be simultaneously swung about their pivot from a distance.

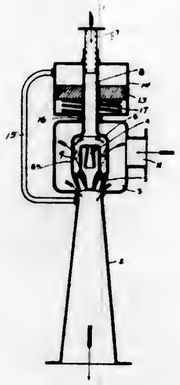
1,421,839. FISHLINE REEL. WILLIAM SCHMID, Bronson, Mich. Filed Jan. 24, 1921. Serial No. 439,354. 3 Claims. (Cl. 242—84.1.)



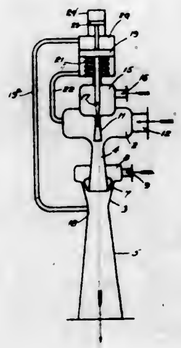
3. As a new article of manufacture, a substantially semi-cylindrical reel frame adapted for attachment to a fish rod and having end flanges in opposed relation affording reel head seats, said frame being formed from a semi-cylindrical member having end members cut away to provide the end flanges and the cylindrical wall cut and portions thereof bent outwardly to provide longitudinal reel seat engaging members.

1,421,840. FLUID TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Sept. 14, 1914, Serial No. 861,633. Divided and this application filed Apr. 16, 1920. Serial No. 374,371. 4 Claims. (Cl. 230—13.)

3. An ejector comprising a mixing chamber having an inlet for fluid to be translated, a diffuser communicating with the mixing chamber, a nozzle head cooperative with the inlet of the diffuser to vary the inlet of the diffuser, means responsive to the pressure of fluid in the mixing chamber to move the nozzle head to vary the inlet area, said nozzle head having a central diffusing nozzle and an annular series of converging diffusing nozzles surrounding and below the central diffusing nozzle, and said head also having ports for fluid to be translated cooperative with the central diffusing nozzle.

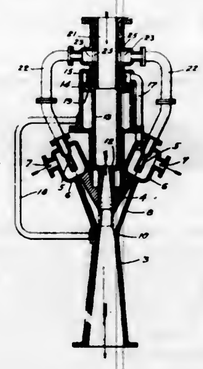


1,421,841. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914, Serial No. 861,630. Renewed Dec. 30, 1921. Serial No. 526,029. 20 Claims. (Cl. 230—13.)



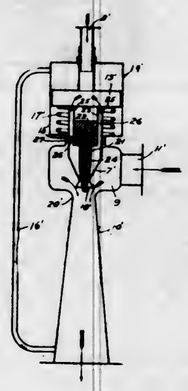
1. In combination in an apparatus of the character described, a chamber to which medium to be compressed is delivered, an ejector device communicating with said chamber for receiving medium therefrom and for compressing it to a relatively high pressure, means for delivering impelling fluid to said device for accelerating the medium of said chamber before delivering it to said device and for delivering a stream of filler fluid to the diffuser of said device, and means for varying the amount of filler fluid delivered in accordance with variations in the amount of fluid to be compressed.

1,421,842. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914, Serial No. 861,631. Renewed Dec. 30, 1921. Serial No. 526,030. 20 Claims. (Cl. 230—13.)



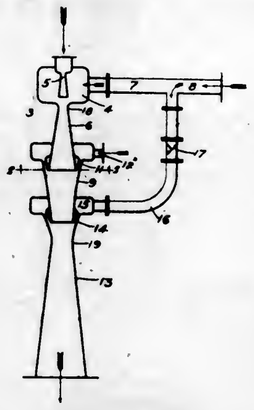
1. In combination in an apparatus of the character described, a diffuser, a chamber communicating with the diffuser receiving medium to be expelled, a main delivery nozzle for delivering expelling fluid through the diffuser, an accelerating nozzle for delivering expelling fluid through the diffuser, and means responsive to variations in the amount of medium entering the chamber for controlling the operation of said main nozzle and the delivery of fluid through said accelerating nozzle.

1,421,843. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914, Serial No. 861,633. Renewed Dec. 30, 1921. Serial No. 526,031. 21 Claims. (Cl. 230—13.)



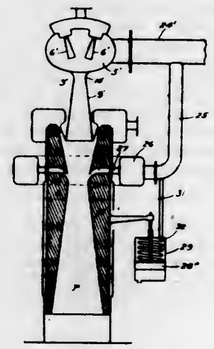
1. In combination in an apparatus of the character described, a diffuser communicating with a suction port of the apparatus, means for delivering a jet of fluid through the diffuser for translating medium entering the port through the diffuser, and means responsive to variations in the amount of medium entering the port for varying the position of the fluid delivery means relatively to the diffuser.

1,421,844. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914, Serial No. 861,634. Renewed Dec. 30, 1921. Serial No. 526,032. 15 Claims. (Cl. 230—13.)



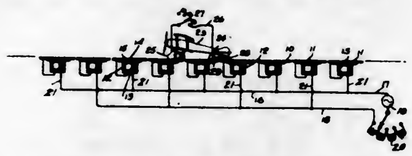
1. In combination in an apparatus of the character described, a plurality of ejectors located in series, a passage from which medium is to be ejected by said ejectors, and means responsive to a variation in the amount of medium to be translated for causing said ejectors to operate in series or in parallel in receiving fluid from said passage.

1,421,845. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914, Serial No. 861,635. Renewed Dec. 30, 1921. Serial No. 526,033. 15 Claims. (Cl. 230—13.)



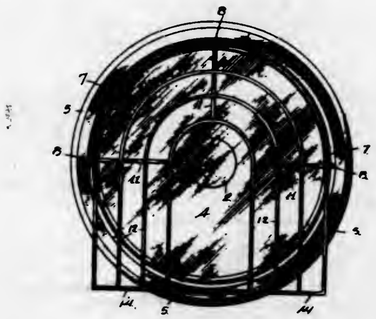
1. In combination in an apparatus of the character described, an ejector for expelling fluid, a second ejector receiving the impelling and the impelled fluid from the first ejector, and means responsive to pressure variations within the suction chamber of the first ejector for controlling the delivery of impelling fluid to the second ejector.

1,421,846. APPARATUS FOR AIRCRAFT. FREDERICK ERNEST SCHOLFIELD, Waterford, Conn. Filed Apr. 21, 1921. Serial No. 463,159. 3 Claims. (Cl. 244—2.)



1. An apparatus for facilitating the launching, mooring or landing of aircraft, comprising a metallic platform, metallic shoes on the aircraft and electromagnetic means for setting up a braking force therebetween when said metallic members are brought in close contact, in combination with means located on the aircraft for rendering said means respectively active or inactive.

1,421,847. NONGLARING ATTACHMENT FOR HEADLIGHTS. CHARLIE SCHOPKE, San Francisco, Calif. Filed June 2, 1921. Serial No. 474,518. 1 Claim. (Cl. 240—48.4.)



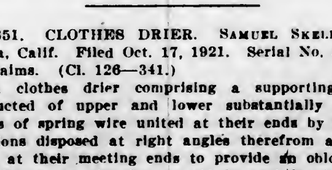
A non-glaring attachment for motor vehicle headlights comprising a plurality of semi-circular reflecting members arranged on the upper portion of said headlight and parallel to the axis thereof to reflect upper diverging rays from said headlight onto the ground in advance thereof, said members having vertically disposed depending portions arranged to reflect lower diverging rays back towards the plane of the axis of said headlight; a ring detachably mounted between the front of the headlight and the lens rim thereof and having a semi-circular flange projecting through said rim; and means for detachably connecting said members to said flange.

1,421,848. HANDLE JOINT. WESLEY E. SEASTROM, Dubuque, Iowa, assignor to Schmid Manufacturing Company, Dubuque, Iowa, a Copartnership consisting of B. C. Schmid and F. W. Schmid. Filed Aug. 30, 1920. Serial No. 406,992. 10 Claims. (Cl. 16—112.)



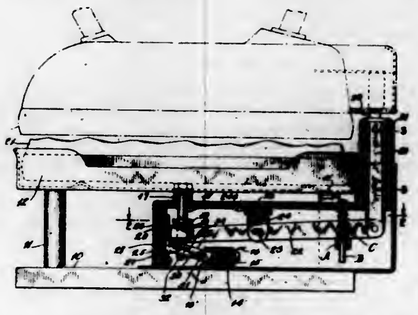
1. The combination with a base member having spaced openings of different sizes therein, of a handle engaged through the largest of said openings, and extensions on said handle engaged through the smaller openings and bent downwardly inside the base member.

1,421,849. GARMENT CONSTRUCTION. JOSEPH SHRWALD, Brooklyn, N. Y. Filed Jan. 10, 1922. Serial No. 528,161. 2 Claims. (Cl. 2—142.)



2. In a waistband construction for trousers, a pair of lining strips secured within the waistband of the trousers each having a plait formed therein adjacent the rear end thereof for receiving between the folds of said plait the upper portion of the outer edge of the material defining the rear seam of the trousers, and attaching means for securing the rear edge of the plait to the rear seam of the trousers.

1,421,850. STAND AND AUTOMATIC SWITCH FOR ELECTRIC IRONS. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed Dec. 16, 1919. Serial No. 345,328. 20 Claims. (Cl. 219—23.)

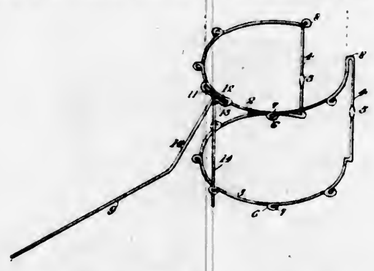


1. In combination with an electric sad iron having contacts thereon, an electric heating stand having electrical terminals for said contacts adapted to make connection therewith when the iron is upon the stand, means adapted to be operated by the weight of the iron when placed in position on the stand to connect said terminals to the electric supply and means whereby said terminals are disconnected from the supply when the iron is moved from the stand and before said contacts are moved out of contact with said terminals.

1,421,851. CLOTHES DRIER. SAMUEL SKELLY, Alameda, Calif. Filed Oct. 17, 1921. Serial No. 508,323. 8 Claims. (Cl. 126—341.)

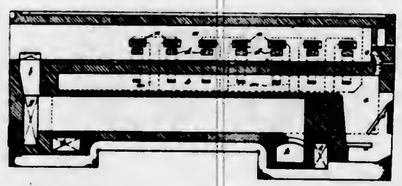
1. A clothes drier comprising a supporting frame constructed of upper and lower substantially parallel strands of spring wire united at their ends by integral extensions disposed at right angles therefrom and connected at their meeting ends to provide an oblong substantially rectangular frame, said frame being bent into a substantially circular band with the frame ends lying adjacent to each other for frictionally engaging a substantially circular support, said upper and lower frame

strands being outwardly bent or looped at corresponding intervals to provide a plurality of vertically disposed pairs of spring eyes, and a clothes supporting arm comprising a horizontal portion and a vertical portion con-



nected by a loop forming a supporting head, said vertical portion adapted for reception within one of said pairs of eyes with the supporting head resting on the upper strand.

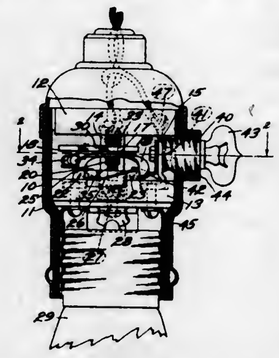
1,421,852. FURNACE. ALFRED SMALLWOOD, London, England. Filed Mar. 8, 1920. Serial No. 364,266. 1 Claim. (Cl. 263—15.)



A furnace, including a gas generator, a green gas flue communicating with said gas generators, a working chamber above said flue, a recuperator below said flue, a plurality of conduits extending from said flue to said working chamber and including individually regulable ports, discharge means connecting said working chamber and recuperator, air flues located on each side of the furnace and passing through said recuperator, and flues each extending vertically from said air flues to pairs of individually regulable ports admitting to the working chamber.

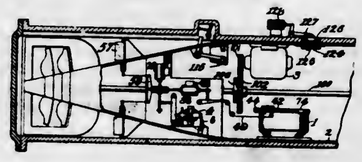
1,421,853. PULL-SOCKET SWITCH. RAYMOND D. SMITH, Boston, Mass., assignor to Shawmut Machine Works, Inc., a Corporation of Maine. Filed Oct. 27, 1916. Serial No. 128,132. Renewed Sept. 30, 1921. Serial No. 504,494. 16 Claims. (Cl. 173—336.)

5. In a pull-socket having supply credit terminals and including a body structure comprising top and bottom insulating blocks secured in spaced relation by conductive brackets extending therebetween, the combination with said structure, of a pawl-and-ratchet-actuated switch mechanism mounted between said blocks and including an oscillatory driving device with means to limit its stroke to a partial rotation and resilient means tending to restore it to a definite position at one end of the designed stroke; a rotatable conductive, double-ended current-switching member pivoted to be rotated by said device; a plurality of circuit contacts arranged to be successively engaged by said member in diametrically opposite pairs, with insulating supports for said contacts arranged cooperatively with said member to restrict retrogressive movement thereof between successive contacts; a main two-terminal lamp receptacle depending from the lower surface of said bottom insulating block; an auxiliary two-terminal plug receptacle carried by said body structure; insulated fixed circuit connections between one terminal of each of said receptacles and a common supply circuit terminal; and separate circuit connections between the other terminal of each of said receptacles and members of different pairs of said stationary contacts together with insulated fixed circuit connection between the related mem-



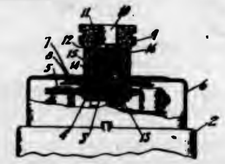
bers of said last mentioned pairs and another supply circuit terminal;—more than one of the said pairs of contacts being successively disposed within the travel of said member caused by a full stroke of said device, whereby different connection of said receptacles to the supply circuit may be had through a full or partial stroke respectively of said device.

1,421,854. GYROSCOPIC APPARATUS FOR TORPEDOES. ELMER A. SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 15, 1916. Serial No. 84,292. 22 Claims. (Cl. 114—24.)



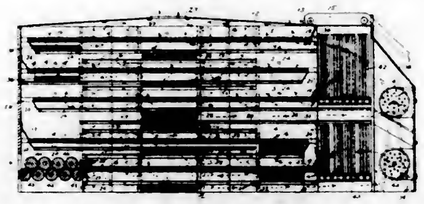
1. In an automobile torpedo, the combination with gyroscopic steering gear therefor, of means for stabilizing the reference plane, from which the steering is controlled, about the fore and aft axis of the torpedo.

1,421,855. ELECTRIC SWITCH. CLARENCE C. STIRLING, Hartford, Conn. Filed Jan. 5, 1921. Serial No. 435,062. 8 Claims. (Cl. 200—172.)



1. An electric snap-switch button, an internally-threaded screw rotative in the button, to fit the external threads of the spindle of the switch, and a spring coiled around the screw, one end of the spring being fixed with respect to the button and the other end being free of the button whereby the spring will be closed when the screw is turned in one direction and opened when turned in the opposite direction.

1,421,856. DRYING MACHINE. GEORGE STONE, North Andover, Mass., assignor of one-half to M. T. Stevens & Sons Company, North Andover, Mass., a Corporation of Massachusetts. Filed Dec. 15, 1921. Serial No. 522,491. 14 Claims. (Cl. 34—12.)



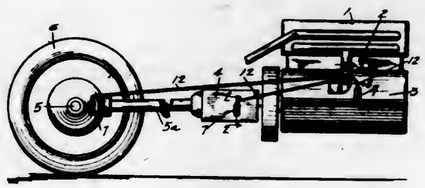
1. A drying-machine comprising a plurality of horizontal rows of conveying rolls arranged at different heights, and adapted to conduct material in a sinuous course through the machine, the rolls of each row being separated by air spaces; air-forcing and heating apparatus; and independent air conductors under said rows connected with said apparatus and adapted independently to conduct air under the rolls of each row, the conducted air being exhausted or discharged upwardly through said spaces into air chambers above the rolls, and utilized to both dry and lift material in transit on the rolls, each row of rolls and the accompanying conductor constituting a conveying and drying unit.

1,421,857. METHOD OF CONSTRUCTING SUBAQUEOUS CONCRETE STRUCTURES. JOHAN STÖRE, Christiania, Norway. Filed May 27, 1920. Serial No. 384,518. 11 Claims. (Cl. 61—46.)



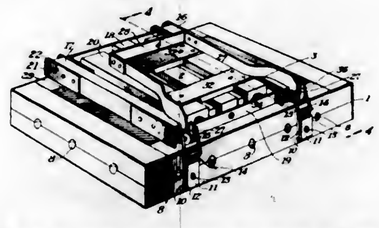
1. The herein described method of forming subaqueous structures, which consists in submerging a chamber below the surface of the water and thereafter feeding casting material into such chamber to inflate the same.

1,421,858. VACUUM OILING SYSTEM. FRANK W. THOMAS and MAYO D. KIMBALL, Pasadena, Calif. Filed Apr. 23, 1921. Serial No. 463,789. 2 Claims. (Cl. 184—55.)



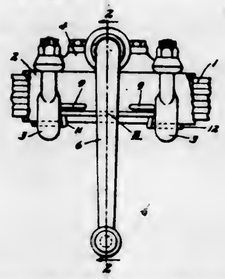
1. The combination with a motor vehicle having a crank case, a transmission case and a differential gear case, of tubular receptacles connected to the crank case, the transmission case, and the differential gear case at points above the oil levels, baffles in the tubular receptacles, conduits connected to the upper ends of the tubular receptacles, a header connected to the intake manifold of the engine and to the opposite ends of the conduits from the tubular receptacles, a sleeve valve in the header, a tubular stem extending from the sleeve valve into the intake manifold, and a swinging abutment upon the inner end of the tubular stem in the passage of the intake manifold.

1,421,859. PRINTING FRAME. JOHN D. THOMPSON, Rochester, N. Y. Filed Oct. 17, 1918. Serial No. 258,659. 8 Claims. (Cl. 95—77.)



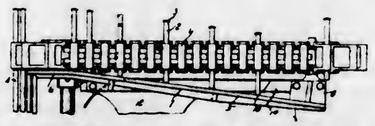
5. In a photographic printing apparatus, a frame, a back hinged thereto along one edge and carrying a pressure member which is adapted to fit within the frame when the back is swung over the frame, and a plurality of loops along the opposite edge of the frame, a plurality of locking and tensioning latches on the back and adapted to engage said loops, and a common handle for actuating said latches simultaneously.

1,421,860. CRANK HOLDER. MARTIN TIEU, Bakersfield, Calif. Filed Mar. 2, 1921. Serial No. 449,140. 1 Claim. (Cl. 74—33.)



A crank holder comprising a wire having a central portion bent to form a notch adapted to receive a crank arm, second portions extending outwardly and backwardly from the central portion, said second portions being coiled, third portions extending backwardly from the second portions, fourth portions extending downwardly from the third portions, fifth portions extending backwardly from the fourth portions, and sixth portions extending outwardly from the fifth portions, the sixth portions forming pintles adapted to be mounted in the clips engaging the front spring of an automobile so that the holder may swing up and down into and out of engagement with the crank arm.

1,421,861. PIN GUIDE. GEORGE C. L. TISCH, Elizabeth, N. J., assignor to Tisch Machine & Tool Works, Elizabeth, N. J., a Corporation of New Jersey. Filed Dec. 1, 1921. Serial No. 519,219. 4 Claims. (Cl. 66—12.)

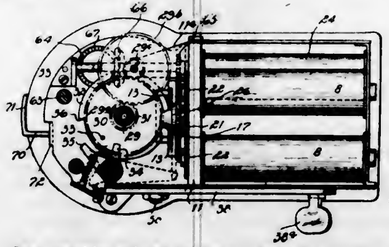


1. A pin guide for knitting machines comprising a plate having an inclined flat guiding section, and a straight guiding section merging therein, said plate being of such a length as to engage substantially half of the pins of said knitting machine at one time.

1,421,862. PROCESS OF COLLECTING AND PURIFYING MINERALS. WALTER E. TRENT, Washington, D. C., assignor to Trent Process Corporation, Washington, D. C., a Corporation of Delaware. Filed Apr. 9, 1920. Serial No. 372,447. 16 Claims. (Cl. 83—85.)

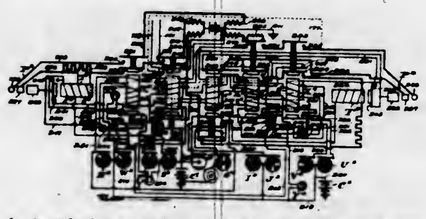
1. The process of collecting minerals suspended in water, consisting in mixing with the mineral a hydrocarbon oil and a comminuted carbonaceous material, in agitating the mixture until the mineral comminuted carbonaceous material and liquid hydrocarbon oil agglomerate, substantially free from froth and in then separating the agglomerated mass from the water.

1,421,863. LOCK FOR NOTCHING SHEARS OF MEASURING MACHINES. DOUGLAS TURNER, St. Louis, Mo., assignor to Measuregraph Company, St. Louis, Mo., a Corporation. Filed May 5, 1920. Serial No. 379,172. 9 Claims. (Cl. 33—130.)



1. In a machine of the kind described, the combination of a measuring roller, indicating mechanism actuated thereby for measuring fabric pulled past the measuring roller, marking means independent of the indicating mechanism, and constructed to be operated at will for marking the fabric to indicate the point where it is to be cut off, locking means constructed to prevent said marking means from being actuated, said locking means being driven from the measuring roller in a definite relation to the indicating means and having means to permit the actuation of the marking means when the indicating mechanism is in any one of a plurality of predetermined positions.

1,421,864. TELEPHONY. HUBERT SYDNEY TURNER, Washington, D. C. Filed Aug. 12, 1915. Serial No. 45,232. 76 Claims. (Cl. 179—58.)

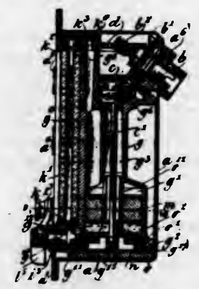


1. A telephone exchange system including telephone lines extending from substations to an exchange, link connectors to connect said substations, a relay for each of said link connectors, a source of intermittent current, means whereby current from said source initially energizes said relay when one of said link connectors is connected to an idle line, means other than said source to maintain said relay energized thereafter, and means to prevent said energization when said link connector is connected to a busy line.

2. A telephone exchange system including telephone lines extending from substations to an exchange, link connectors to connect said substations, a relay for each of said link connectors, a source of intermittent current, means whereby current from said source initially energizes said relay when one of said link connectors is connected to an idle line, and means to prevent said energization when said link connector is connected to a busy line, a low resistance shunt, said last mentioned means comprising means for intermittently connecting said shunt around said relay in synchronism with the impressions of intermittent current through said relay from said source, said shunt being connected by the previous connection of another such link connector to the same line.

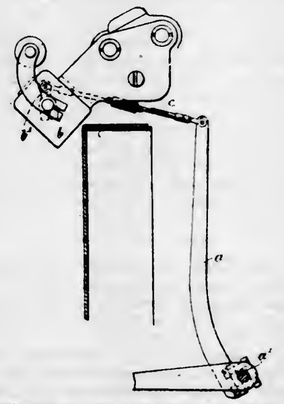
42. A telephone exchange system including telephone lines extending from substations to an exchange switchboard having a line signal individual to each substation line, a pilot signal individual to each operator's position at said switchboard and operated thereat upon the energization of one or more of said line signals of the lines assigned to said position for answering, means to operate said pilot signal at another operator's position, and means at said second mentioned position operative when said last mentioned pilot signal is operated thereat to operate the pilot signal individual to said second mentioned position at still another operator's position.

1,421,865. TACHOMETER. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Co., Hartford, Conn., a Corporation of Connecticut. Filed Mar. 23, 1921. Serial No. 454,646. 10 Claims. (Cl. 264—19.)



1. In an instrument of the character described, the combination of a main frame having an open base, two separate members fitted within the base and chambered to form a paddle wheel chamber, one of said members having formed in its face adjacent the other member a radial channel and a circumferential channel, and means to retain the said members in place.

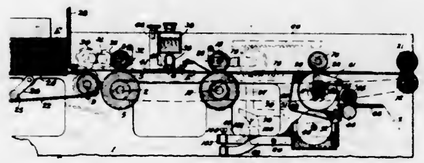
1,421,866. TURNBUCKLE. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Oct. 8, 1921. Serial No. 506,288. 2 Claims. (Cl. 85—36.5.)



1. A turnbuckle comprising two parts flattened to cooperate with each other and threaded reversely, and a

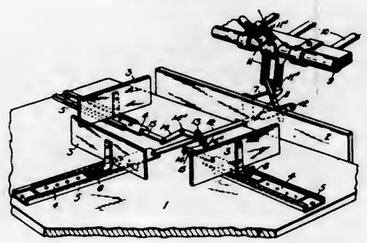
cross threaded nut engaging the threaded portions of both parts, the nut being split longitudinally so that it may fit tightly on said threaded portion.

1,421,867. MACHINE FOR SEALING AND STAMPING ENVELOPES. MAXWELL VIDAVER, New York, N. Y. Filed June 30, 1917. Serial No. 177,978. Renewed May 25, 1922. Serial No. 563,716. 16 Claims. (Cl. 216—3.)



4. In a machine of the class described in combination, feeding mechanism for supplying envelopes to said machine, means for forwarding an envelope through said machine comprising several sets of rolls located in advance of one another so that an envelope is engaged by each set in advance before it leaves a preceding set of rolls, said feeding mechanism being automatically controlled by the engagement of an advancing envelope with said first set of rolls, and means co-acting with said first set of rolls, and means co-acting with said several sets of rolls for moistening and sealing the flap of the envelope and affixing a stamp to said envelope as it passes through said rolls.

1,421,868. SHEET-STRAIGHTENING APPARATUS. PAUL VOLKMERE, Auckland, New Zealand. Filed Oct. 21, 1920. Serial No. 418,365. 3 Claims. (Cl. 271—89.)

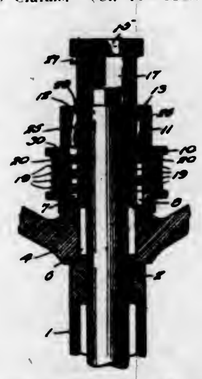


1. In apparatus of the class described, movable gage elements and means for operating said movable gage elements consisting in a reciprocable main bar arranged at right angles to the axis of the flyer, one of the movable gage elements being connected to said main bar, pivoted crank arms operated directly by the said main bar and to each of which one of the side movable gage elements is connected, a pivoted lever connected to the main bar, and a double armed bell crank mounted on the flyer axis and arranged to positively strike said lever in each direction of rotation.

1,421,869. PROCESS OF MAKING HYDROCHINON. HAROLD VON BRAMER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 28, 1920. Serial No. 392,417. 12 Claims. (Cl. 260—154.)

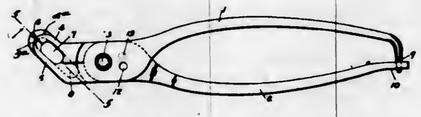
6. In the process of making hydrochinon, the step of reacting on a paradihalogenbenzolsulfonate with a metallic hydroxid until the hydrochinon salt of said metal is produced, and recovering hydrochinon from the reaction mixture.

1,421,870. LOCKING DEVICE FOR AUTOMOBILE STEERING MECHANISMS. ERNEST L. B. VON DIEZELSKI, New York, N. Y. Filed Feb. 18, 1920. Serial No. 359,649. 9 Claims. (Cl. 70—128.)



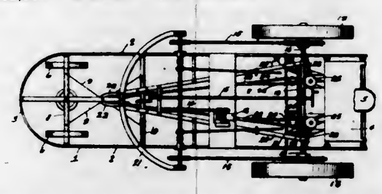
1. In a device of the class described, an open ended steering column, a steering wheel journalled on the open end of said steering column, a circular casing carried on the upper face of the central portion of said steering wheel, a steering post extending upward within said steering column and having its free end projecting into the plane of the upper end of said casing, locking members within said casing, and a locking sleeve surrounding the free end of said steering post and adapted for vertical movement within said casing and with respect to said steering element and to said locking members.

1,421,871. TOOL. CHRISTIAN H. WAGNER, Tiffin, Ohio. Filed Apr. 16, 1921. Serial No. 461,742. 1 Claim. (Cl. 81—3.)



A tool embodying a pair of pivotally connected members, handles at one end thereof, and a pair of offset jaws located at the opposite end, said jaws having transversely arranged openings therethrough and providing inwardly extending gripping noses, and the said openings extending from the gripping noses to the inner ends of the offset to provide an open-ended longitudinally-disposed recess.

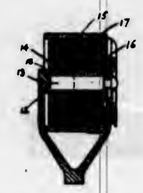
1,421,872. CULTIVATOR. MAUDA F. WATKINS, Star Lime Works, Ky. Filed Nov. 4, 1918. Serial No. 261,052. 1 Claim. (Cl. 97—37.)



In a cultivator, a frame, an arch bar axle supporting the rear end of said frame, an arch bar for carrying cultivator elements positioned adjacent the first mentioned arch bar and having its lower ends turned outwardly, cultivator elements supporting members secured beneath said lower ends and extending rearwardly and forwardly of

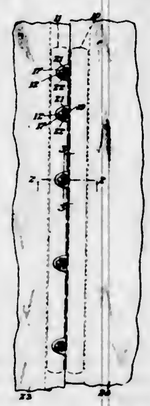
said lower ends, pull bars each having one end pivoted to the forward part of the frame and its other end pivoted to the forward end portion of a respective supporting member, lift rods connected to the second arch bar adjacent its extremities, pivoted lift levers each having the usual connection with a respective lift rod, blade carrying yokes each connected to the rear end of a respective cultivator element supporting member and springs each connecting one of said yokes with the arch bar axle, said springs being arranged to hold the second arch bar and its connecting parts yieldably in a position central of the arch bar axle.

1,421,873. ADJUNCT FOR SEWING-MACHINE SHUTTLES. LUCIUS E. WEAVER, East Hampton, Conn., assignor to Summit Thread Company, East Hampton, Conn., a Corporation of Maine. Filed Feb. 28, 1921. Serial No. 448,689. 1 Claim. (Cl. 112—233.)



A bobbin-controlling adjunct for a bobbin case having a central post; said adjunct comprising a split sleeve of thin resilient material having an opening in one side, and adapted to fill an annular space between said post and a bobbin core; and a resilient tongue joined to the sleeve at one end of said opening, normally inclined outward from the sleeve, and adapted to be pressed into said opening, the sleeve being normally of smaller diameter than said post, and adapted to be expanded by and frictionally hug the latter to resist movement of the sleeve on the post, the sleeve, when expanded by the post, being adapted to closely fit the internal surface of a bobbin core, and the tongue being adapted to be forced by the core into said opening, and to exert a yielding outward rotation-resisting pressure on the core.

1,421,874. CLASP. WILLIAM G. WEBER, Ridgefield Park, N. J., assignor to Kops Bros., New York, N. Y., a Firm. Filed Sept. 15, 1921. Serial No. 500,884. 3 Claims. (Cl. 24—222.)



1. A clasp comprising a stud having a head, and a socket member having a slot therein with ribs on both sides of the slot intermediate of the ends thereof and having a continuously rounded surface sloping into the body of the socket member.

1,421,875. TOOTHBRUSH. WILLIAM LLOYD WEBSTER, New York, N. Y. Filed Oct. 26, 1921. Serial No. 510,577. 3 Claims. (Cl. 15—210.)



1. A holder for the rubbing material of a tooth-brush, having a socket provided with interrupted screw threads for retaining the rubbing material in the socket.

1,421,876. CONNECTING RING. EDWARD L. WEED, Providence, R. I., assignor to Potter & Buffinton Company, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 12, 1921. Serial No. 451,852. 2 Claims. (24—236.)



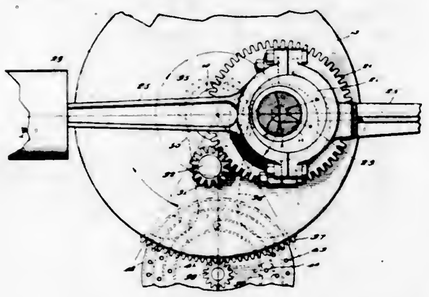
2. A ring of the character described having a spur with one end connected to one end of the ring at the joint to extend inwardly therefrom the opposite end of the ring being grooved to snap over the body of the spur to serve as a detent for the ring ends against too readily opening at the joint.

1,421,877. NURSING BOTTLE AND NIPPLE PROTECTOR. WILLIAM WEISSHEIER, Brooklyn, N. Y. Filed June 19, 1920. Serial No. 390,101. 1 Claim. (Cl. 215—11.)



A nursing bottle, comprising a bottle having a neck and provided with an annular ring adjacent the juncture of the neck and body of the bottle, the neck being adapted to carry a nipple, and a cap having an enlarged lower portion and an annular portion to receive the ring of the bottle and provided with vertical slits extending from its end a short distance to permit the cap to snap over said ring, the lower enlarged portion extending to about the top of the bottle neck, and the reduced upper portion being approximately of the shape of a nipple.

1,421,878. INTERNAL-COMBUSTION ENGINE. GRANVILLE G. WESTERFIELD, Indianapolis, Ind. Filed Apr. 19, 1920. Serial No. 374,934. 12 Claims. (Cl. 123—197.)

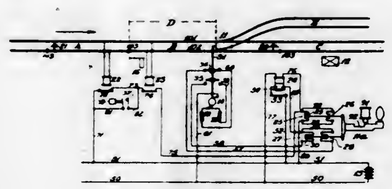


1. In an internal combustion engine, the combination of a cylinder, a piston movable therein, a crank shaft having a crank pin, an eccentric mounted on said crank pin and adjustable around the axis thereof, means for rotating said eccentric in space about the crank pin axis at a different angular speed from that of the crank shaft and so that it normally arrives at the same position at the end of each alternate revolution of the crank shaft, a connecting rod connecting said eccentric to said piston, and means for adjusting said eccentric about the axis of said crank pin while the engine is in operation to vary the position of the piston in the cylinder at the end of the compression stroke thereof.

1,421,879. ENGINE FUEL. MILTON C. WHITAKER, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Nov. 12, 1919. Serial No. 337,396. 7 Claims. (Cl. 44—9.)

4. A fuel comprising from 90% to 92% of kerosene and thyl acetate.

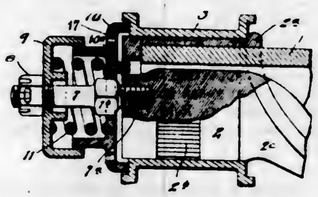
1,421,880. RAILWAY-TRAFFIC-CONTROLLING SYSTEM. GILBERT C. WHITNEY, New York, N. Y. Filed May 21, 1919. Serial No. 298,779. 20 Claims. (Cl. 246—136.)



19. In a power operated switch operating system, an electrical element controlled by a track circuit and maintained energized by the current flow in the switch circuit.

1,421,881. BRAKE BEAM. CHARLES HAINES WILLIAMS and EDWIN G. BUSSE, Chicago, Ill., assignors to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 28, 1921. Serial No. 488,212. 7 Claims. (Cl. 188—223.)

7. The combination with a trunnion member of a brake beam, of a brake head mounted thereon, a locking member designed to marginally and directly engage said brake head, and exteriorly arranged yielding means which exerts pressure against the outer face of said locking



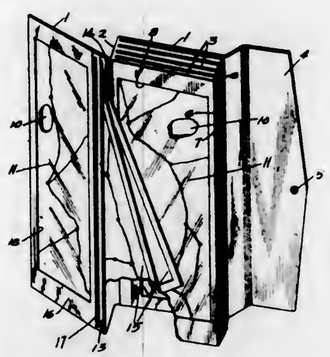
member, thereby permitting the head to move longitudinally along the trunnion, said locking member frictionally holding the head in rotatably adjusted position.

1,421,882. SHELL. HENRY E. WINANS, Belleville, Ill. Filed Jan. 31, 1920. Serial No. 355,297. 8 Claims. (Cl. 102—15.)



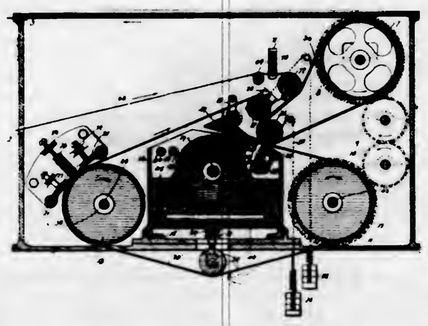
6. A shell containing a shot-driving wad, a shot-driven member, a body of shot between said shot-driving wad and shot-driven member, and means for connecting said shot-driving wad to said shot-driven member, said means comprising a wire-like spear passing through the body of shot and having a head engaging the outer face of the shot-driven member and also having a pointed end provided with a barb anchored in said shot-driving wad.

1,421,883. MAP HOLDER. WILLIAM W. WRIGHT, Hollywood, Calif. Filed Apr. 28, 1921. Serial No. 463,759. 1 Claim. (Cl. 129—20.)



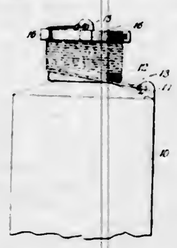
A holder comprising a pair of cover leaves and a plurality of intermediate leaves, each of said intermediate leaves including side walls forming a pocket between the same adapted to receive a map or the like, said walls having window openings therein for displaying said maps, transparent sheets covering said maps and received with the same in said pockets and one of the cover sheets being provided with a pair of pockets adapted to receive maps and one of said latter pockets having a window opening that is covered by a transparent sheet.

1,421,884. PATTERN-TRANSFER MACHINE. PAUL YOHNS, New York, N. Y. Filed July 19, 1919. Serial No. 312,089. 7 Claims. ((Cl. 101—122.)



1. A pattern transfer machine comprising a perforated master pattern, rolls supporting the same, and means to maintain the rolls and consequently the master pattern in a heated condition, whereby printing fluid upon lodging in the perforations is heated and caused to flow.

1,421,885. SCREW CAP. JOHN M. ABRAMS, Brooklyn, N. Y. Filed Dec. 13, 1921. Serial No. 521,985. 4 Claims. (Cl. 215—99.)



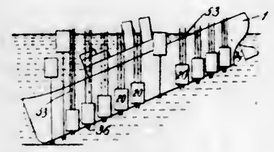
1. A container having a threaded neck portion, and a screw cap for detachable engagement with the outer end of the neck, and a flexible member connecting said cap with the container and adapted to be wound about the cap.

1,421,886. FRACTIONATING APPARATUS. HUGH LOGIE ALLAN, Ayr, Scotland. Filed Sept. 15, 1919. Serial No. 324,023. 6 Claims. (Cl. 196—5.)



1. Fractionating apparatus comprising in combination a plurality of rectifiers having each an upper and a lower compartment with vertical tubes connecting said compartments, condenser pipes connecting the upper compartments in series, and reflux pipes connecting each upper compartment with the lower compartment of the next lower rectifier.

1,421,887. METHOD OF AND APPARATUS FOR RAISING SUNKEN SHIPS. ALEXANDER ALLAN, Middletown, R. I. Filed Feb. 7, 1921. Serial No. 443,192. 7 Claims. (Cl. 114—52.)



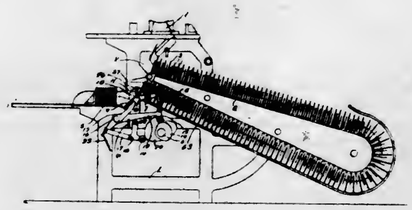
1. The method of salvaging a sunken vessel which comprises accurately locating the vessel, establishing guideways relative thereto, lowering pontoons upon said guideways, positioning them in operative relation to the vessel and raising the vessel by controlling the buoyancy of the pontoons, all operations being controlled from the surface of the water.

1,421,888. PROCESS FOR WEATHERPROOFING CLAY. WILLIAM H. ALLEN, Detroit, Mich. Filed Sept. 6, 1921. Serial No. 498,879. 6 Claims. (Cl. 91—68.)

2. The process of destroying the capillarity of the surface of a body of unbaked clay which consists in depositing calcium silicate in the interstices thereof by chemical action.

4. The process of coating clay which consists in chemically destroying its capillarity and then applying a weather resistant medium.

1,421,889. GRIPPER MECHANISM FOR ENVELOPE-MAKING MACHINES. ADDISON E. AUGUSTINE, Hackensack, N. J., assignor to Chester Machine Co. Inc., New York, N. Y., a Corporation of New York. Filed July 12, 1920. Serial No. 395,666. 12 Claims. (Cl. 271—82.)

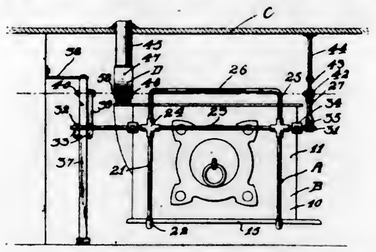


1. A gripper device for envelope-making machines comprising gripping fingers mounted to move from one position to another and to be operated into gripping and non-gripping positions by striking obstructions at opposite ends of its path of movement, stop members constituting obstructions arranged at opposite ends of said path of movement to be engaged by said gripping fingers, and each of said stop members being pivotally mounted and having its striking surface portion lying in a plane eccentric to the pivotal axis of the stop for the purpose set forth.

1,421,890. SELF-LEVELING STOVE FOR SHIPS. GEORGE W. BAKER, Jacksonville, Fla. Filed Apr. 29, 1921. Serial No. 465,535. 5 Claims. (Cl. 126—24.)

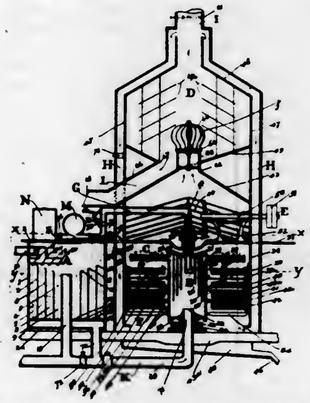
1. The combination with a galley stove, of a cradle therefor including transversely extending bars arranged under the stove, uprights secured to the terminals of the

bars, longitudinally extending side bars secured to the uprights, rigid supports secured to the ship, means pivot-



ally connecting the side bars with the rigid supports, and adjustable clamps carried by the side bars arranged to engage the stove.

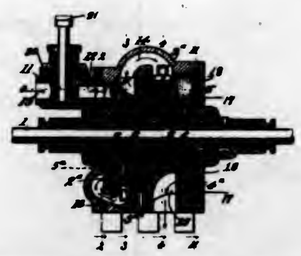
1,421,891. SEWAGE PURIFIER. JOHN P. BALL, Chicago, Ill. Filed June 23, 1921. Serial No. 479,741. 16 Claims. (Cl. 71—8.)



1. A system for purifying sewage comprising in combination, a sedimentation chamber containing a plurality of concentric compartments, an annular overflow weir communicating between each compartment at successive lower planes, a revoluble mounted dewatering chamber, a cylindrical filter chamber, surrounding said dewatering chamber, and a dust collecting drum superimposed upon said filter chamber, means for supplying sludge to the sedimentation chamber, communicating means for supplying sludge from the sedimentation chamber to the dewatering chamber, discharge means from said dewatering chamber into said filter chamber, aerating means through said filter chamber, and means for causing an upward current of air to flow through said filter, a sinuous current passage for extracting the particles carried in said filter current, discharge means for collecting said particles into said dust drum, and means affording an outlet passage for material collected in such drum.

1,421,892. ROTARY STEAM ENGINE. CARL OSCAR BANEB, San Francisco, Calif. Filed Nov. 23, 1920. Serial No. 426,066. 3 Claims. (Cl. 253—70.)

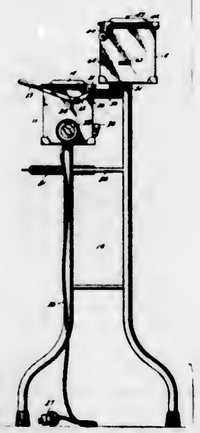
1. An engine of the character described, comprising a housing, a shaft rotatable therein, rotors mounted on the shaft and a stationary steam chest mounted between each two rotors, V-shaped blades on each rotor presenting symmetrical working faces in both directions, sets of steam passages in the steam chest on opposite sides communicating with adjacent rotors in opposite directions, the steam passages in each set being divided so as to lead into opposite directions, and means for controlling the steam passages allowing the rotors to be actuated in either direction.



2. An engine of the character described, comprising a housing, a shaft rotatable therein, rotors mounted on the shaft and a stationary steam chest mounted between each two rotors, V-shaped blades on each rotor presenting symmetrical working faces in both directions, sets of steam passages in the steam chests on opposite sides communicating with adjacent rotors in opposite directions, the steam passages in each set being divided so as to lead into opposite directions, and having expansion chambers associated therewith for allowing a plurality of blades to be attacked simultaneously, and means for controlling the steam passages allowing the rotors to be actuated in either direction.

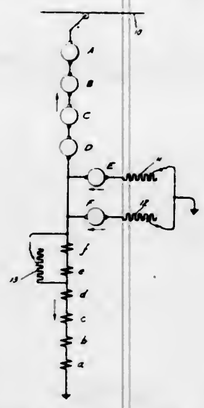
3. An engine of the character described, comprising a housing, a shaft rotatable therein, rotors mounted on the shaft and a stationary steam chest mounted between each two rotors, V-shaped blades on each rotor presenting symmetrical working faces in both directions, sets of steam passages in the steam chests on opposite sides communicating with adjacent rotors in opposite directions, the steam passages in each set being divided so as to lead into opposite directions, and means for controlling the steam passages allowing the rotors to be actuated in either direction, said means comprising sliding valves associated with the passages in each steam chest, a main steam admitting valve and an operative connection between the main valve and the sliding valves adapted to actuate both of them simultaneously.

1,421,893. STERILIZER FOR INSTRUMENTS AND DRESSINGS. OTTO BARTA, New York, N. Y. Filed Mar. 26, 1920. Serial No. 369,004. 3 Claims. (Cl. 167—3.)



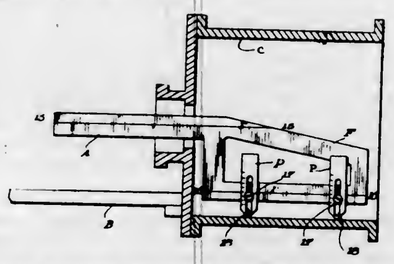
1. A sterilizer, comprising a stand, a sterilizing vessel supported upon the stand and provided with a removable support for the instruments to be sterilized and with a heater for the same, a second vessel supported upon the stand in a higher plane than the first vessel, a sterilizing chamber suspended in the second vessel and provided with a support for dressings, a tube leading from the upper part of the first vessel into the bottom of the second vessel, a second tube establishing communication between the first tube and the bottom of the said chamber, said second tube being provided with perforations opening into the second vessel, and a valve in said second tube.

1,421,894. POWER TRANSMISSION AND ELECTRIC BRAKING. ASA F. BATCHELDER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 11, 1920. Serial No. 409,647. 19 Claims. (Cl. 172—179.)



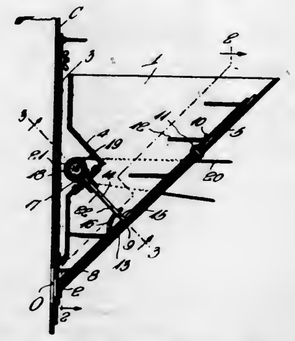
1. In a system of electric braking, a plurality of operatively connected dynamo electric machines having severally armature and field windings, a portion of said machines operating as a self-excited exciter connected in a local circuit with the fields of all of said machines, a resistance in the said local circuit, and connections whereby the braking current has a path through the said resistance and the armatures of said machines, the excitation of all of said machines is varied responsively to the variations of the braking current, and only the current in the local circuit passes through the field windings of said machines.

1,421,895. ALIGNING INSTRUMENT FOR CROSSHEAD GUIDE BARS. ARTHUR RUSSELL BATEMAN, Lynchburg, Va. Filed June 4, 1921. Serial No. 474,880. 2 Claims. (Cl. 33—174.)



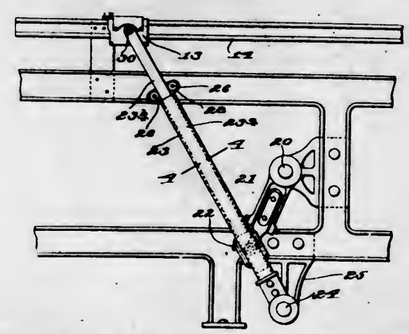
1. An instrument of the character described comprising a frame adapted to be inserted within an engine cylinder, an arm formed on the frame and adapted to extend exteriorly of the cylinder, said arm having a line formed thereon to extend longitudinally thereof, and sliding pointers supported on the frame to extend at right angles to said line and adapted to contact with the inner wall of the cylinder for the purpose described, the said frame and the said pointers being provided with cooperating means for indicating the right angular position of the pointer with respect to the said line.

1,421,896. FLOUR FEEDER. JOHN W. BENEDICT, Grand Ledge, Mich. Filed Mar. 2, 1922. Serial No. 540,561. 5 Claims. (Cl. 83—44.)



1. A device of the class described comprising a hopper, and a plurality of agitators arranged therein, said agitators being arranged in superposed relation, and each having portions working in the discharge opening of the hopper and being simultaneously operated in planes at right angles to each other.

1,421,897. WIRE MOTION FOR LOOMS. JOSEPH F. BENOIT, Sandford, Me. Filed Aug. 19, 1920. Serial No. 404,626. 3 Claims. (Cl. 139—64.)

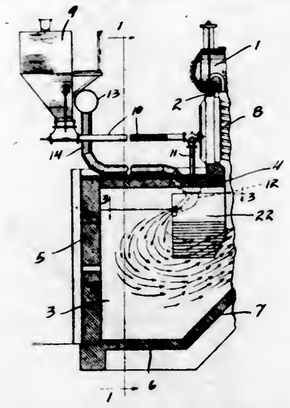


1. Apparatus of the kind described comprising a carriage mounted for operative movement to engage the cutting wires of a loom, and operating mechanism therefor embodying a pivoted lever composed of two parts, telescopic with respect to each other, one of said parts directly engaging said carriage and the other part having an actuating crank engaged therewith.

1,421,898. PULVERIZED-FUEL FURNACE. LARS HUGO BERGMAN, Chicago, Ill. Filed Jan. 7, 1920. Serial No. 350,015. 2 Claims. (Cl. 110—28.)

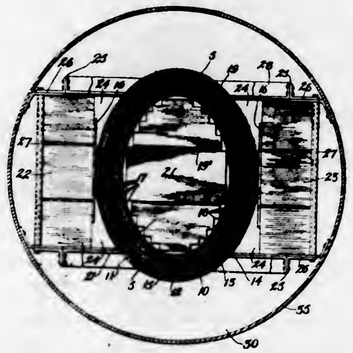
1. In a furnace for pulverized fuel, a combustion chamber, downwardly directed fuel conduits, air chambers one

surrounding the mouth of each fuel conduit, mixture conduits leading from each of said air chambers into the combustion chamber, said mixture conduits being curved so as to deliver streams inclined downwardly and toward the front of the combustion chamber, said inclined streams



converging toward the front of the combustion chamber, an outlet at the rear of said combustion chamber, means for conveying pulverized fuel to said fuel conduits, and means for conveying air under pressure to said air chambers.

1,421,899. TRANSFORMER. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Oct. 17, 1919. Serial No. 331,325. 11 Claims. (Cl. 175—361.)



2. In a transformer, the combination of a laminated core having a core leg comprising parallel laminæ, the cross section of said parallel laminæ having the dimension perpendicular to the planes of said parallel laminæ greater than the width of the laminæ of said core leg, and a coil around said leg of general elliptical form and having its major axis perpendicular to the planes of said laminæ, the convolutions of said coil having continuous arch shaped curva ure throughout.

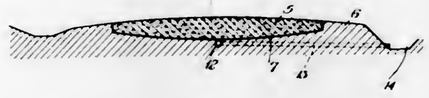
1,421,900. SNUBBER. DÉSIRÉ V. BOUREAU, Detroit, Mich. Filed Jan. 14, 1920. Serial No. 351,383. 4 Claims. (Cl. 267—9.)

1. In a snubber, the combination of a casing adapted to be secured to one part of a vehicle and a circular wedge rotatably mounted therein and whose inclined surface extends from a shoulder around the wedge to said shoulder, means to connect the wedge to another portion of the vehicle so it may be turned when the two parts of the vehicle approach each other, a non-rotatable plate movable



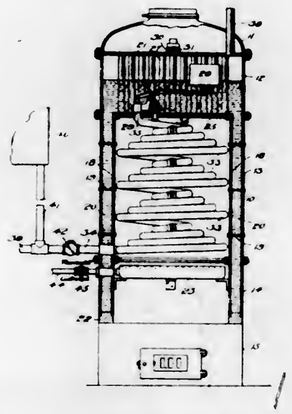
axially of the wedge by the wedge when the wedge is turned, and resilient means to resist such axial movement of the plate.

1,421,901. PAVEMENT. FREDERICK A. BROTSCH, JR., Rochester, N. Y. Filed Apr. 16, 1919. Serial No. 290,553. 7 Claims. (Cl. 94—10.)



1. A road pavement of rigidly combined material having a lower surface which is convex in shape transversely of the road throughout its length to provide varying thickness of material greater adjacent the center of the pavement than at the sides.

1,421,902. HEATING SYSTEM. JOHN H. BROWN, Spavinaw Creek, Okla. Filed Jan. 10, 1922. Serial No. 528,334. 3 Claims. (Cl. 122—451.)

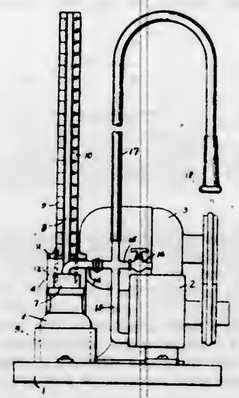


1. In a steam generator, a fire tube section, a water tube section connected thereto, a check valve at the entrance to said water tube section, a float valve for controlling the passage of water from the water tube section to the fire tube section, and a safety valve between said water tube section and said fire tube section.

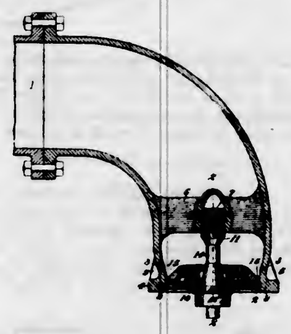
1,421,903. APPARATUS FOR INDICATING POROSITY. CARL BUBERL, Detroit, Mich. Filed May 21, 1921. Serial No. 471,376. 4 Claims. (Cl. 73—51.)

1. An apparatus for indicating porosity, comprising means for compressing air, a receiver for the compressed air, an indicator of the air pressure in said

receiver, regulable means for venting said receiver, and a mouth-piece in communication with the receiver applicable to a body to be tested to afford an escape of air from the receiver proportionate to the porosity of the body being tested.



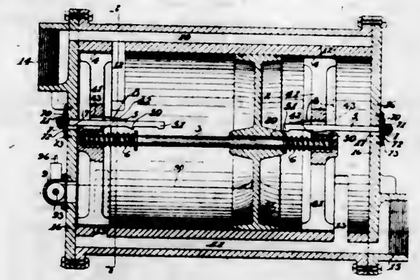
1,421,904. SAFETY CONTROL FOR HYDRAULIC PIPE LINES. ERICH BUEHLE, San Francisco, and ELY C. HUTCHINSON, Oakland, Calif., assignors to Pelton Water Wheel Co., San Francisco, Calif., a Corporation of California. Filed June 6, 1921. Serial No. 475,515. 5 Claims. (Cl. 220—88.)



5. A safety control for hydraulic pipe lines comprising a pipe affording a chamber and connected at one end to a hydraulic pressure container, and open for the full area of its opposite end, a spider extended across said pipe within its open end, a head removably received within the open end of the pipe for normally closing the same, said head provided with a central aperture, a headed securing bolt extended through said aperture and threaded into said web for retaining said head in position to close said pipe, said bolt adapted for rupture to release said head on the same being subjected to a pressure below the bursting pressure of said pipe and above the normal pressure within said pipe.

1,421,905. METER. ENOS B. CADE, Portland, Oreg. Filed May 17, 1920. Serial No. 381,811. Renewed Apr. 10, 1922. Serial No. 551,208. 11 Claims. (Cl. 73—30.)

1. A meter comprising a cylinder, a floating piston in the cylinder, axially spaced inlet and exhaust ports at each end thereof, a valve at each end of the cylinder consisting of a ring fitting the cylinder bore and movable to control both ports, and means for shifting said valves



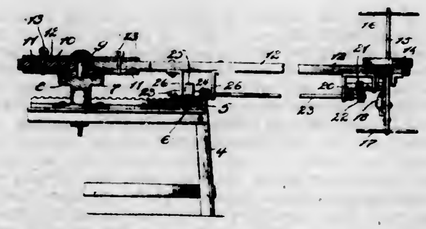
controlled by the piston, each valve being of a width to keep one of its cooperating ports completely closed until it has completely closed the other port, in shifting.

1,421,906. COMFORTER OR WADDED QUILT. HEMAN A. CALEF, Portland, Oreg. Filed Dec. 3, 1920. Serial No. 427,975. 1 Claim. (Cl. 5—3.)



As an article of manufacture, a quilt comprising a casing of flexible material composed of an upper piece, a lower piece, and an intermediate piece, the intermediate piece being secured at successive substantially equally spaced points to the upper and lower pieces alternately, to provide independent, relatively off-set pockets of substantially equal capacity the length of the upper, lower and intermediate pieces being substantially equal one to another between the extreme points of the attachment, and filling for the respective pockets, said filling serving to give a corresponding fullness to all of said pockets, whereby under stretching of the quilt the upper, lower and intermediate casing-pieces yield to an equal extent, thereby correspondingly and similarly rendering and maintaining the thickness of all pockets substantially uniform throughout the quilt, without regard to its degree of stretch.

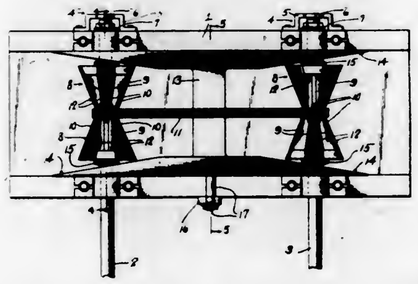
1,421,907. AMUSEMENT DEVICE. JULIAN C. CALLAIS, St. Louis, Mo. Filed June 10, 1920. Serial No. 387,924. 2 Claims. (Cl. 46—27.)



1. In an amusement device, a circular rack, having a horizontal flange; a bearing having a vertical pintle and concentrically mounted within said rack; a spider having sockets and revolvably mounted on said pintle; seat-

carrying beams detachably mounted in said spider; a reciprocating arm having a handle-bar and a foot-bar and mounted at the outer terminal of each beam; a shaft mounted beneath each of said beams, having pinions at its ends, the outer pinion geared to said reciprocating arm, and the inner pinion engaging said rack.

1,421,908. GEARLESS TRANSMISSION MECHANISM. LOUIS C. CATTOI, Hurley, Wis. Filed Feb. 24, 1921. Serial No. 447,453. 2 Claims. (Cl. 64—8.)



1. A device of the class described comprising a casing, a drive shaft journaled therein, a driven shaft journaled therein, a pair of telescopic cones on each shaft, said cones having tapered slots therein for receiving tapered portions of the companion cone, an H-shaped member slidably mounted in the casing and having the inner faces of its parallel members beveled to engage the broad ends of the cones and a pivoted lever connected with said sliding member for moving the same.

1,421,909. MILK SKIMMER. CHARLES E. CHAMBERS, Wichita, Kans. Filed Dec. 13, 1920. Serial No. 430,362. 2 Claims. (Cl. 31—85.)



2. In a milk skimmer, a flexible disk having a pair of slots arranged adjacent to and on opposite sides of the center of said disk and in parallelism with each other: two arm members, one for each slot, each comprising a longitudinal strip with a pair of notches oppositely arranged in the side edges of each strip and near the lower end thereof, the said notches of each strip engaging, respectively, the outer portions of its slot and whereby the lower end elements of said strips extend below said disk in spaced apart planes, while the upper end portions extend above the disk as handle elements; the upper handle elements being susceptible of movement in opposite directions and in parallelism with each other, to pivot said disk into parallelism therewith and whereby the lower end elements of said arms below the disk are brought into a contiguous relationship with each other from their former spaced apart relationship.

1,421,910. EMERGENCY BRAKE, ANTISKIDDING, AND ANTITHEFT DEVICE. MAX CICHON, Chicago, Ill., assignor to Virginia Marcia Cichon, Chicago, Ill. Filed June 3, 1922. Serial No. 565,618. 8 Claims. (Cl. 188—4.)



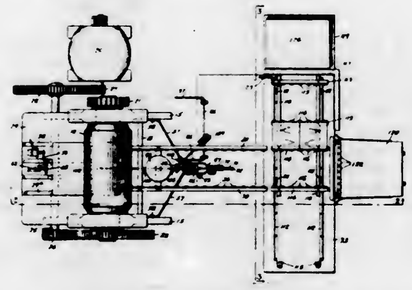
1. An apparatus of the character described, including a vehicle having a pair of driving wheels, a shaft mounted on said vehicle and means for operating said shaft, arms rigidly attached to said shaft, brake shoes carried by said arms and adapted to be projected under the wheels, forwardly extending links attached to the brake shoes and connecting said shoes with the vehicle frame, and springs connected to said links and exerting a force tending to throw the shoes into inoperative position.

1,421,911. TOOTH-CLEANING DEVICE. ABRAHAM B. COHEN, Far Rockaway, N. Y. Filed Aug. 22, 1918, Serial No. 250,928. Renewed Apr. 21, 1922. Serial No. 555,918. 3 Claims. (Cl. 15—39.)



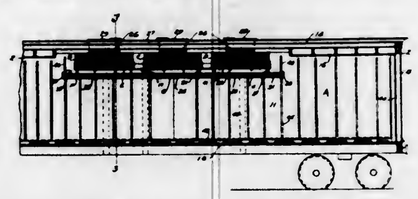
1. A tooth cleanser comprising a composite sheet composed of an interior soft absorbent cotton and a facing composed of a fabric which does not substantially swell up when moistened, the said soft absorbent cotton having pores containing particles of solid dentifrice.

1,421,912. PLATING MACHINE. STANLEY A. COHEN, deceased, late of New York, N. Y., by Alice Hood Cohen, executrix, New York, N. Y., assignor to The New York Consolidated Card Company, Long Island City, N. Y., a Corporation of New York. Filed May 17, 1920. Serial No. 382,022. 12 Claims. (Cl. 92—71.)



1. A plating machine comprising supporting means upon which a pile of material to be plated is adapted to travel, pressing rolls in operative co-relation to said supporting means and operatively connected with each other said pile being reciprocated between said rolls, driving means whereby said rolls are driven and devices located upon opposite sides of said rolls for controlling said driving means and arranged to be alternately actuated by said pile to reverse the driving means and rolls, whereby the direction of travel of said pile is automatically reversed.

1,421,913. REFRIGERATOR CAR. LESTER W. COLLINS, St. Paul, Minn. Filed Oct. 7, 1919. Serial No. 328,980. 5 Claims. (Cl. 62—17.)

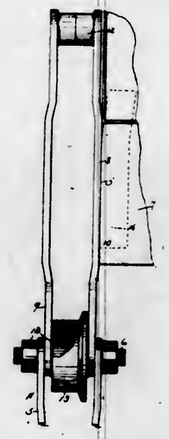


1. A body structure containing a provision chamber, a plurality of assembled ice baskets of open work structure distanced apart and situated near the top and away from ends of said structure, skeleton cradle elements secured to the side walls of said structure for supporting said baskets in position and a plurality of assembled combined drip pan and air baffle elements secured to said side walls and spaced from said ice basket elements for conducting the drip away from the ice in the basket elements and permitting air to circulate freely from the provision chamber over, through, below and around the ice in the basket elements.

1,421,914. ANTIFOULING COMPOSITION. GEORGE D. COLEMAN, deceased, late of Buffalo, N. Y., by Nellie S. Coleman, executrix, Revere, Mass. Filed Nov. 3, 1916. Serial No. 129,393. 4 Claims. (Cl. 106—24.)

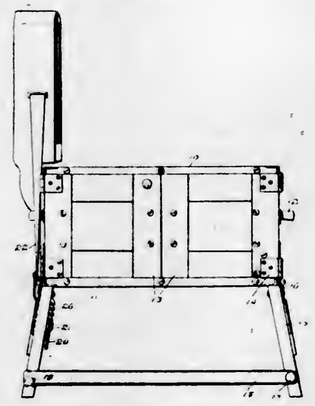
1. An anti-fouling composition comprising an intimate mixture of hydraulic cement, cupric material substantially insoluble in water, and a soluble salt of copper.

1,421,915. CHAIN. JAMES H. COOKE, Hartford, Conn. Filed Mar. 8, 1920. Serial No. 364,271. 12 Claims. (Cl. 74—32.)



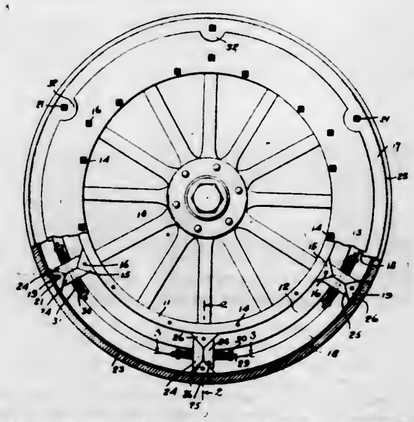
1. A chain link member having its opposite ends offset in the same direction and to the same extent and with the plane of one face of each of said offset portions located substantially in a plane passing centrally through the intermediate portion of the member and parallel with the faces thereof and with roller bearing hubs extending from the same side at opposite ends thereof whereby a chain may be formed composed of links all of duplicate construction.

1,421,916. SADDLER'S CHEST. LOUIS B. CRAIG, Davenport, Iowa. Filed Nov. 3, 1920. Serial No. 421,609. 3 Claims. (Cl. 144—286.) (Filed under the act of Mar. 3, 1883. 22 Stat. L., 625.)



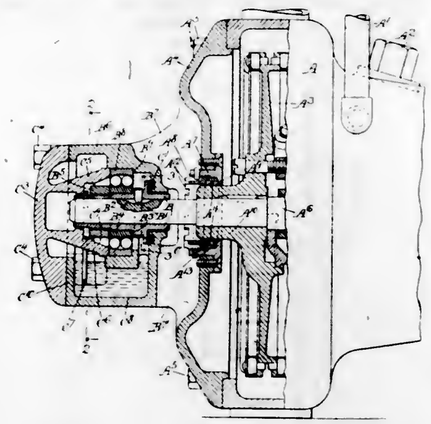
1. A chest, doors hinged at one side of the chest and opening toward respective ends thereof, legs attached to the respective ends of the chest and foldable upon the ends, braces for holding the legs in folded position and unfolded chest supporting position, a treadle pivoted to the legs at the forward end of the chest and a socket secured to the forward end of the chest for the reception of the shank of a clamp.

1,421,917. RESILIENT TIRE. ROBERT CURRY, New York, N. Y. Filed July 9, 1921. Serial No. 483,633. 7 Claims. (Cl. 152—37.)



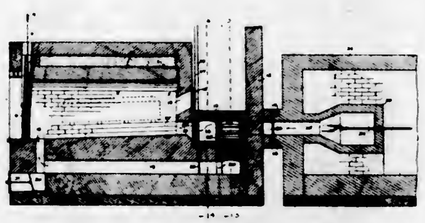
6. A resilient tire for vehicle wheels embodying spaced inner and outer rims, a series of radially disposed cams provided on said rims, a series of circumferentially movable cams respectively engaging the rim cams, and means for resiliently resisting circumferential movement of the circumferentially movable cams whereby to tension the relative movement between said rims.

1,421,918. BEARING FOR STEAM TURBINES. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Mar. 3, 1919. Serial No. 280,364. 20 Claims. (Cl. 64—36.)



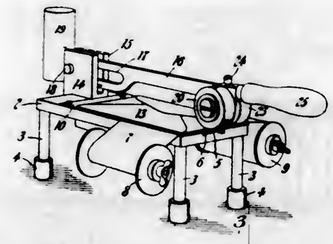
1. The combination with a bearing housing having an apertured wall of a sleeve mounted for rotation within the aperture and extending into the housing, a ball bearing surrounding the sleeve anchored in position and supporting the sleeve, a shaft passing inwardly through the aperture in the wall and removably engaging the sleeve, and means for holding the shaft and sleeve against rotation with respect one to another, and said means being adapted to permit ready withdrawal of the shaft longitudinally from the sleeve without changing the relation between sleeve and bearing, the means for holding shaft and sleeve together comprising a spring collar surrounding the sleeve, a spring key penetrating the sleeve mounted on and forced inwardly by the spring collar and a key seat on the shaft adapted to be engaged by the spring key.

1,421,919. CREMATION FURNACE. ALEXANDER H. DAVIDSON, Colma, and SEVERUS SUNDELIUS, San Francisco, Calif. Filed July 7, 1916. Serial No. 107,924. 3 Claims. (Cl. 110—3.)



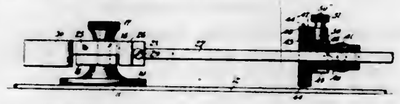
1. In a crematory, a plurality of combustion chambers, a main supply passage to convey heated gases to said combustion chambers, a furnace connected to said supply passage, said connection being provided with an open joint for preventing the transmission of vibration from the furnace to the combustion chambers and for permitting the entrainment of air into said combustion chambers and said passages being formed each with an escape port, a flue connected with each of said escape ports, and means connecting said flues, and means to convey gases from said connecting means to the atmosphere.

1,421,920. PRINTING MACHINE. FRANK DE MINICO, New York, N. Y., assignor to Pollard-Alling Manufacturing Company, New York, N. Y., a Corporation of New York. Filed June 9, 1921. Serial No. 476,120. 10 Claims. (Cl. 101—274.)



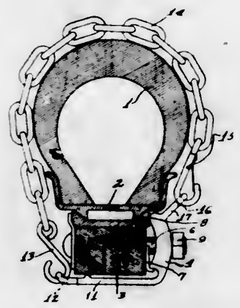
1. A printing machine including in combination means for supporting a printing plate, means for supporting an ink ribbon above the printing plate support, a lever mounted for movement in the direction of its length, an impression roll pivotally mounted on said lever, and a pivot on which said lever is mounted for oscillation normal to the direction of its length toward and away from said table.

1,421,921. ROTARY GLASS CUTTER. CARL F. DOERR, Yonkers, N. Y. Filed Apr. 22, 1921. Serial No. 463,693. 6 Claims. (Cl. 33—27.)



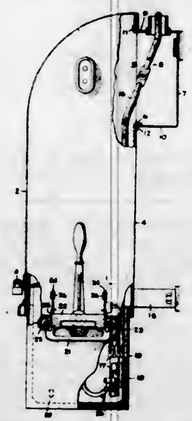
1. In a rotary glass cutter, a cutter bar, a sleeve adjustibly fastened to the said cutter bar, a cutter head provided with cutters arranged in spaced relation and projecting from the peripheral face of the cutter head, the latter being mounted to turn on and to slide on the said sleeve to allow of adjusting the cutter head on the sleeve, and means securing the adjusted cutter head n place on the sleeve.

1,421,922. ANTISKID DEVICE. JOSEPH L. DONAT, Chicago, Ill. Filed July 18, 1921. Serial No. 485,473. 2 Claims. (Cl. 152—14.)



1. In a rim securing clamp, two portions at substantially right angles to each other, one adapted to extend across the inner face of the felloe and the other to extend across a lateral face thereof, the last-mentioned portion having a slot to receive the rim securing bolt, perforated lugs projecting from said portions, one of said lugs standing obliquely to its portion, whereby when the securing clamp is in place on the wheel, the perforations in said lugs will be conveniently located to receive hooks for securing antiskid chains in place.

1,421,923. STARTING COMPENSATOR. PARKER DUNNING, Bloomfield, N. J., assignor to General Electric Company, a Corporation of New York. Filed Nov. 17, 1919. Serial No. 338,571. 4 Claims. (Cl. 200—150.)

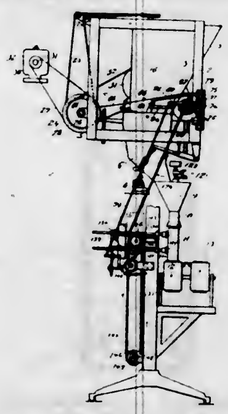


1. The combination of a casing for electrical apparatus, of a movable oil well provided with fixed handles and movable members in close proximity therewith biased to a position in which said well is supported from the casing by the said members.

1,421,924. LIGHT-DIFFUSING MEDIUM AND METHOD OF MAKING THE SAME. LEON W. EBERLIN and SAMUEL E. SHEPPARD, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 13, 1920. Serial No. 430,800. 13 Claims. (Cl. 134—45.)

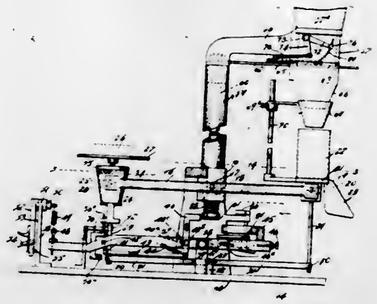
1. A composition of matter consisting of a mixture of a water soluble silicate and amylaceous particles.

1,421,925. AUTOMATIC PACKAGING EQUIPMENT. EARL B. ELDER, New York, N. Y., assignor to E. D. Anderson, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 15, 1919. Serial No. 317,698. 16 Claims. (Cl. 249—59.)



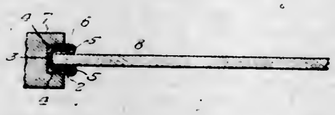
1. In an apparatus of the class described, a hopper with a bowl at its lower extremity, a vertically moving partition in said hopper and means for moving the same, a rotary agitating mechanism in said bowl and means for closing the lower end of the bowl when a predetermined amount of material has passed through the same.

1,421,926. AUTOMATIC WEIGHING MECHANISM. EARL B. ELDER, New York, N. Y., assignor to E. D. Anderson, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 16, 1920. Serial No. 431,093. 21 Claims. (Cl. 249—58.)



1. A weighing machine comprising balancing mechanism, a supply receptacle for material, a gate to control the flow therefrom, means tending to close the gate, means to retain the gate open, devices operative with the balancing mechanism to release the retaining means before a full charge from said supply receptacles has been deposited on the balancing mechanism, the said devices including operating means to actuate the balancing means before said full charge has been deposited thereon, and devices cooperative between the gate and said first named devices to render the latter inoperative with the balancing mechanism whereby the balancing mechanism may operate independently of said gate.

1,421,927. WINDOW-MOUNTING DEVICE. HENRY FAUROT, Jr., Chicago, Ill., assignor to Western Felt Works, Chicago, Ill., a Corporation of West Virginia. Filed Apr. 26, 1922. Serial No. 556,608. 6 Claims. (Cl. 296—44.5.)

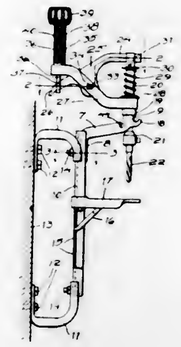


1. A window mounting device, comprising a channeled strip of flexible material adapted to have its base inserted in a channeled frame, the junctions of the side walls and bottom wall of the strip being so reinforced as to cause the side walls to tend to approach each other, the side walls being formed by portions of the material doubled upon itself.

1,421,928. DRILL. JEREMIAH C. FITZGERALD, Kilbourn, Wis. Filed Sept. 9, 1920. Serial No. 409,117. 5 Claims. (Cl. 77—20.)

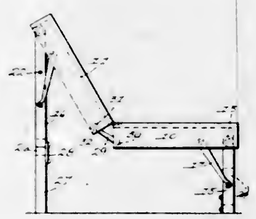
1. A device of the class described, consisting of a shaft adapted to carry a drill-bit at one of its ends and mounted for rotary as well as reciprocatory movement, a

crank mounted to turn said shaft, a connection uniting said shaft and crank, and independently operable



threaded means carried by the crank and connected to said connection for controlling the reciprocatory movement of said shaft.

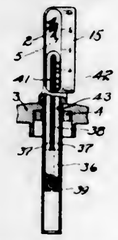
1,421,929. COMBINATION TABLE. GABRIEL FLORESKUL, Toronto, Ontario, Canada. Filed Aug. 13, 1920. Serial No. 403,371. 1 Claim. (Cl. 45—116.)



A table of the character described comprising in combination with two box-shaped elements hingedly connected at their upper edges, pairwise arranged legs pivotally secured within said elements, braces also pivotally connected to the inner side walls of said elements and adapted to engage with their outer hooked ends pins on said legs, foot parts hinged to said legs, the foot part of one pair of said legs adapted to be swung into alignment with said legs, while the foot parts of the other pair are held parallel with the legs for allowing the use of the table as a chair, and clamps holding said foot parts in alignment with said legs and a clamp rod pivotally secured to the lower edge of the side walls of one of said box-like elements and engaging with its hooked other end a pin in the inner side walls of the other elements, substantially as described.

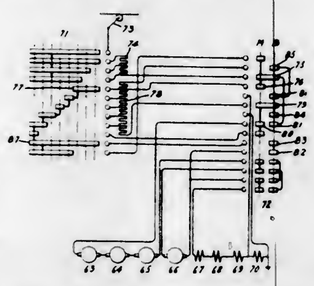
1,421,930. APPARATUS FOR INDICATING THE AMOUNT OF WATER IN AUTOMOBILE RADIATORS. CAMPBELL FORD, San Francisco, Calif. Filed July 24, 1918. Serial No. 246,424. 2 Claims. (Cl. 73—82.)

1. In an apparatus for indicating the amount and temperature of water in a tank, a float, a scale, a rod attached to said float for indicating on said scale the level of water in said tank, and a thermometer tube secured



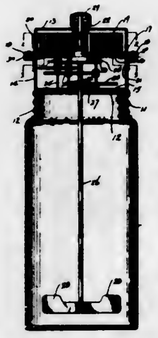
to said rod and having its bulb in said float in communication with the water in said tank.

1,421,931. ELECTRIC BRAKING. PETER W. FORSBERG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,288. 26 Claims. (Cl. 172—179.)



1. In a system of control for electric braking, a resistor, a plurality of dynamo-electric machines, a portion of the armatures of which is connected in series with the resistor to form a braking circuit, and another portion of the armatures of which operates as an exciter connected with the field windings of all of the machines in a shunt circuit to the resistor.

1,421,932. SPRING-OPERATED MOTOR. JOHN C. FOSTER, New York, N. Y. Filed June 9, 1920. Serial No. 387,634. 7 Claims. (Cl. 185—39.)



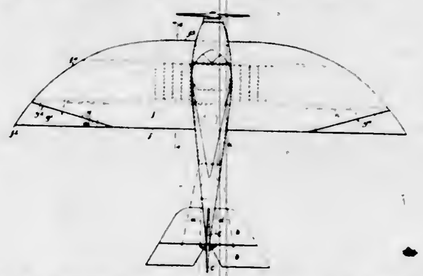
1. In a spring motor, the combination of a casing, a shaft rotatably carried by said casing, a sleeve rotatably mounted upon said shaft, a spring connecting said casing and sleeve, means operatively connecting said sleeve and shaft, and means adjustably mounted on said sleeve exteriorly of said casing, and engaging said shaft for regulating the speed ratio thereof.

1,421,933. CLIP DEVICE FOR REELS. EDWARD FULDA, New York, N. Y. Filed July 12, 1920. Serial No. 395,616. 8 Claims. (Cl. 242—74.)



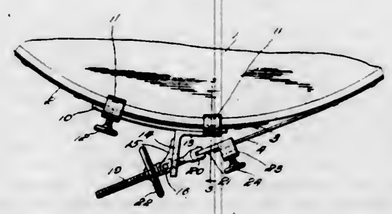
8. In a reel, the combination with a hub or drum provided with a peripheral slot or depression and shoulders at the ends of said slot, of a clip consisting of a continuous piece of spring metal engaging both of said shoulders and passing under a projection intermediate said shoulders whereby a free end of the clip will be held against the surface of the drum by spring action of the metal of the clip itself and downward pressure upon the clip at a point thereof between said shoulders will cause it to fulcrum on a shoulder and raise said free end.

1,421,934. AEROPLANE CONSTRUCTION. WILLIAM P. GARY, Totowa Borough, N. J. Filed Dec. 9, 1921. Serial No. 521,106. 4 Claims. (Cl. 244—12.)



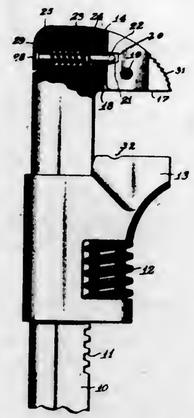
1. A cambered aerofoil having as viewed in plan its leading edge convex and its trailing edge and leading edge meeting at a point abaft the central transverse axis of the aerofoil and also having the substantially longitudinally contour-sections thereof graded down in size to substantially said point but all approximately identical in form the chords of all such contour-sections being in substantially the same plane.

1,421,935. HOOP-STRETCHING DEVICE. WALKER B. GILBERT, Lynchburg, Va. Filed Aug. 21, 1920. Serial No. 405,109. 8 Claims. (Cl. 254—67.)



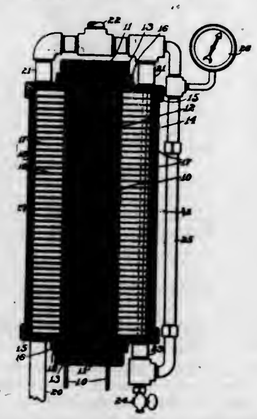
1. In a device of the class described, means conformable to the curvature of the side wall of a barrel for clamping one end of a hoop in position thereon, means for securing said first mentioned means in position, and means associated with said first-mentioned means for engaging the other end of the hoop and stretching the latter prior to the securing of the same to the wall of the barrel.

1,421,936. WRENCH. FRANK R. GILBY, Detroit, Mich. Filed Mar. 5, 1921. Serial No. 449,724. 10 Claims. (Cl. 81—780.)



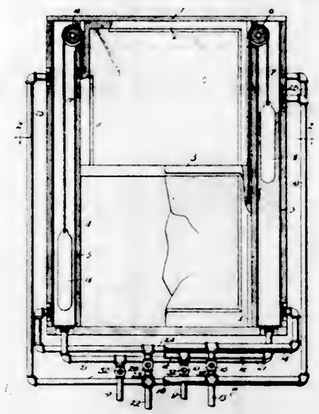
1. A wrench having a dog pivoted thereon, a shank, and a jaw, the dog having a curved serrated surface eccentric to the pivot, the radial distance of the eccentric surface from the pivot being greatest adjacent to the shank whereby movement of the dog away from the shank causes the serrated surface to approach the jaw.

1,421,937. ELECTRIC WATER HEATER. ARTHUR M. GOLDBERG, Indianapolis, Ind., assignor to Electric Controller Company, Inc., Indianapolis, Ind., a Corporation of Indiana. Filed July 28, 1921. Serial No. 488,123. 8 Claims. (Cl. 219—47.)



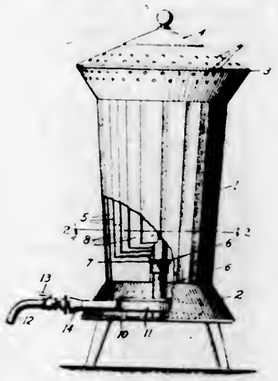
2. An alternating-current electric water-heater, comprising an outer water-containing casing having inlet and outlet openings, a primary winding and core within said outer casing, and a plurality of sheet-metal plates located within said outer casing and surrounding said primary winding and core.

1,421,938. WINDOW-OPERATING DEVICE. CHARLES I. GOLDBLATT, Brooklyn, N. Y. Filed Mar. 10, 1921. Serial No. 451,186. 6 Claims. (Cl. 268—4.)



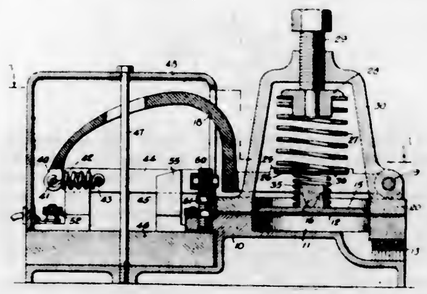
1. The combination with a frame and a member slidable vertically in the frame, of a counterbalance normally retaining said member in elevated position, a flexible device connecting the slidable member and the counterweight, and means for partially immersing the counterbalance in a fluid, whereby the weight of the sliding member will preponderate and said member will slide by gravity in the frame.

1,421,939. AIR HEATER. MICHAEL HACHALACHTI, New York, N. Y., assignor of one-fourth to George L. Livingston and one-fourth to Abraham Okun, New York, N. Y. Filed Oct. 11, 1918. Serial No. 257,723. 1 Claim. (Cl. 126—90.)



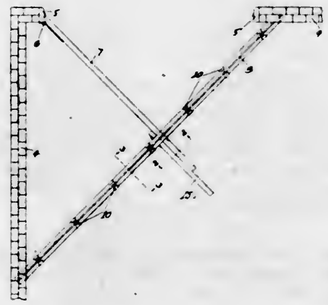
A gas heater of the class described embodying a substantially frusto conical casing inverted so that its wall diverges upwardly, a chambered base positioned subjacent the casing and forming a combustion chamber, a perforated cover for said casing and an upright post extending vertically through the heater, in combination with radially extending partitions positioned longitudinally of the interior of the casing to divide said interior into a plurality of upwardly extending circulating passages segmental in cross section and diverging in an upward direction, means carried by the post for spacing the partitions and a gas burner positioned in the combustion chamber, whereby all the air passing through the chamber is mixed with the products of combustion and circulates upwardly through the diverging passages to be dispersed through the perforations of the cover.

1,421,940. AUTOMATIC PRESSURE-OPERATED SWITCH. WILLIAM L. HAMILTON, Bangor, Mich. Filed Sept. 10, 1918. Serial No. 253,489. 3 Claims. (Cl. 200—83.)



1. In a pressure regulator, a diaphragm exposed to pump pressure, a lever having depending lugs, a spring supporting plate held on the lever, a spring bearing on the said supporting plate, a pressure plate on the said diaphragm and engaged by the said lugs, the said pressure plate having a rising boss, a light spring interposed between the said pressure plate and the under side of the said supporting plate, the light spring engaging the said boss, a switch having a pivoted member, and a tension spring connecting the free end of the said lever with the said pivoted switch member.

1,421,941. DOOR HANGER. ALVA J. HAYES, Corydon, Iowa. Filed May 12, 1921. Serial No. 468,979. 3 Claims. (Cl. 20—16.)

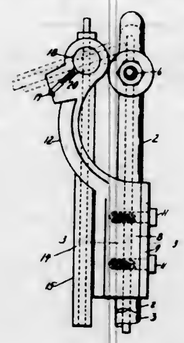


1. The combination with a door adapted to swing from one of its sides, a suitably supported straight track extending substantially across the sector described by the door, upper rollers adapted to travel on said track, lower rollers, a track on the door adapted to travel on the lower rollers, and a swivel device connecting the upper and lower rollers.

1,421,942. WINDSHIELD SUNSHADE. GEORGE A. HOLSBERG, San Francisco, Calif. Filed Nov. 18, 1919. Serial No. 338,843. 1 Claim. (Cl. 296—95.)

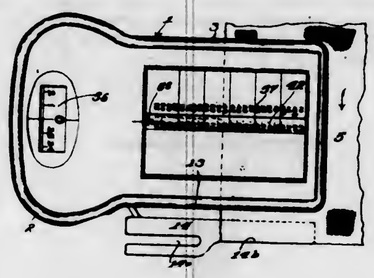
The combination with a windshield having upper and lower panels, of a frame for said panels, a hinged joint

connection between the upper end of the top panel and the frame to permit a swinging movement of said panel in said frame whereby it may occupy different positions of adjustment, a pair of brackets detachably connected to said frame below the hinged connections between the same and the upper panel, vertically disposed arms



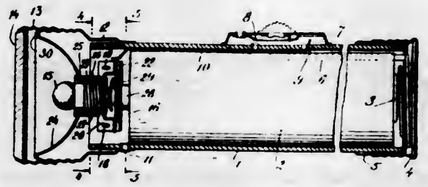
extending from said brackets and positioned so as to be out of the horizontal path of movement of the swinging upper panels, bearings in said arms and disposed in substantially the same horizontal line as said hinged joints for the upper panel, and a swinging auxiliary shield overlying a portion of the upper panel supported in said bearings in said arm.

1,421,943. CLOTH-MEASURING AND COST-COMPUTING MACHINE. GREENE CARLTON HOSCH and GEORGE B. KYLE, St. Louis, Mo., assignors to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed Mar. 27, 1920. Serial No. 369,368. 20 Claims. (Cl. 33—133)



1. In a fabric measuring and cost-computing machine the combination of a casing, a measuring roller mounted therein, a presser-roller co-operating with the measuring roller to press the fabric against the same, indicating mechanism actuated by the measuring-roller, returning means for returning the indicating mechanism to zero, and a controlling member with means for effecting the raising and lowering of the presser-roller and means actuated by the controlling member for controlling the operation of the returning means.

1,421,944. SPOTLIGHT. FREDERICK L. HUMISTON, New Haven, Conn., assignor to Winchester Repeating Arms Company, a Corporation of Connecticut. Filed Oct 25, 1921. Serial No. 510,207. 10 Claims. (Cl. 240—8.5.)



1. In a hand lamp, the combination of a casing, a battery therein, a lamp, a support for said lamp, and a reflector rotatable on said support to move axially of said casing.

1,421,945. ELEVATOR CONTROLLER. RUDOLF A. ISENBERG, San Francisco, Calif. Filed Mar. 15, 1921. Serial No. 452,587. 8 Claims. (Cl. 187—32.)

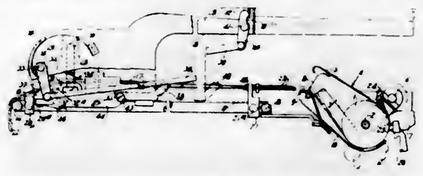


5. The combination with an elevator shaft and elevator mounted therein, of a contact arm for controlling movement of said elevator within said shaft; a controller arm operatively connected to the contact arm and projecting beyond the elevator; means for normally actuating said contact and controller arms to move said elevator in either direction within the shaft and to stop the same; and means mounted within the elevator shaft and engaging said controller arm to prevent movement of the same and the contact arm secured thereto when the actuating means therefor have been moved to a stop position between predetermined points within said shaft, and to permit movement of said controller and contact arms to a stop position to stop said elevator at predetermined points within said shaft.

1,421,946. TYPEWRITING MACHINE. ARTHUR A. JOHNSON, Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed July 6, 1921. Serial No. 482,694. 20 Claims. (Cl. 197—126.)

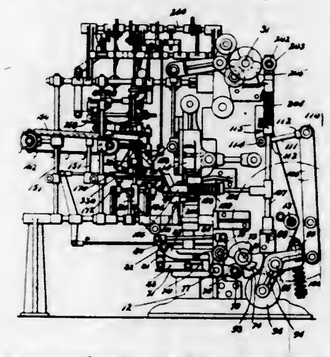
1. In a typewriting machine, in combination, a revoluble platen, a carriage therefor having a rearward extension, a carbon-carrier mounted for forward and rear-

ward movement on said extension, and means to prevent cumulative creeping of separate plies fed around said platen, comprising pins mounted on said carrier, so that they may be projected into correspondingly po-



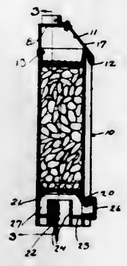
sitioned perforations in superposed forms on the separate plies, and thereby prevent relative displacement of the forms to the rear of said pins during the feeding of the forms in advance of said pins around the platen.

1,421,947. AUTOMATIC COUNTER-FORMING MACHINE. ALBERT F. JONES, Salem, Mass. Filed Sept. 2, 1920. Serial No. 407,778. 26 Claims. (Cl. 12—66.)



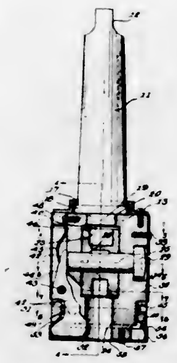
1. A counter-forming machine, comprising male and female shaping dies, die-operating mechanism including means for entirely withdrawing the male die from the cavity formed by the female dies, and automatic blank-supplying mechanism including means for bending a blank at a station outside the said cavity, means for confining the bent blank, and means for shifting the bent and confined blank to insert its body portion in said cavity, said confining means being adapted to engage the blank until the male mold enters the cavity and to then release the blank.

1,421,948. FILTER. DAVID A. JONES and CLARENCE R. MARTIN, Bartlesville, Okla. Filed May 28, 1921. Serial No. 473,260. 4 Claims. (Cl. 210—91.)



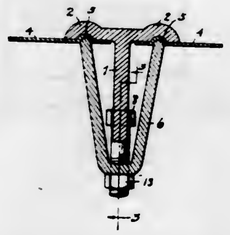
1. In a filter of the type described, a casing, vertically spaced trays within the casing, the uppermost of said trays being disposed in spaced relation to the top of the casing and the lowermost of said trays being arranged in spaced relation to the bottom of the casing, inlets opening through the top of the casing adjacent opposite sides thereof, and an outlet opening through the bottom of the casing and extending upwardly within the casing to a point adjacent the bottom of the lowermost tray, said outlet being provided adjacent the upper surface of the bottom of the casing with minute openings.

1,421,949. TAP AND REAMER CHUCK. OTTO S. KALLMAN, Minneapolis, Minn. Filed Feb. 20, 1920. Serial No. 360,240. 7 Claims. (Cl. 279—14.)



1. A chuck, comprising a body having a tool shank receiving opening formed therein, means arranged in the body having a plurality of different sized openings therein arranged to receive the inner ends of a tool shank, and means carried by said body and projecting into said tool shank receiving opening therein, for clamping a tool.

1,421,950. METAL BUILDING CONSTRUCTION. THOMAS H. KANE, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed May 15, 1920. Serial No. 381,545. 5 Claims. (Cl. 189—1.)



1. In a metal building construction, the combination of a column, a sheet metal wall panel provided with a corrugation along a vertical edge, the column being formed of a plurality of angular members, one of which has a groove to receive the corrugation on the panel, another member being positioned to hold the corrugation on the panel in the groove, and means to secure the parts of the column together.

1,421,951. ELECTROMAGNET FOR MOMENTARILY RELEASABLE LOCKING DEVICES WITH ELECTRIC LOCKING OF THE RELEASING MEANS. KARL FRIEDRICH KAPPES, Mannheim, Germany, assignor to the Firm of Luftfahrzeug-Bau Schutte-Lanz, Mannheim-Rheinau, Germany. Filed Oct. 8, 1920. Serial No. 415,645. 3 Claims. (Cl. 74—93.)



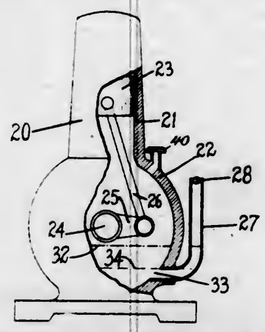
1. An electric releasing-device, comprising, in combination, an electromagnet; means for exciting it; two armatures adapted to be attracted by said electromagnet; locking-means at said armature; a loaded lever; two arms located between this lever and said armatures and being adapted to be operated by them at the same time, substantially and for the purpose as described.

1,421,952. RESILIENT STAMP PAD. ROBERT H. KEE and WHITNEY K. MUNSON, Los Angeles, Calif., assignors to Mun-Kee Products Corporation, a Corporation of California. Filed Apr. 11, 1921. Serial No. 460,592. 4 Claims. (Cl. 91—54.5.)



1. A device of the character described comprising a base, a recess in the upper surface to receive a pad, a second recess in the base of the first recess forming a reservoir, depressions in the bottom of said base, said depressions increasing in depth as radial spacing is increased.

1,421,953. SIGNALING DEVICE. LESTER S. KEILHOLTZ, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 29, 1917. Serial No. 145,156. 6 Claims. (Cl. 116—112.)



1. In a device of the character described, the combination with an engine including a crank case having a breather and adapted to contain a supply of lubricant, said crank case being provided with an opening positioned below the normal level of the lubricant; a tube connected to said crank case and having a passage-way communicating with the opening in the crank case; and an audible signaling device secured to said tube, whereby the passage of air to the signaling device due to the operation of the engine will indicate a predetermined low level of the lubricant in the crank case.

1,421,954. MOLDING COMPOSITION. JOHN L. KELLER, Charleston, W. Va. Filed Feb. 28, 1921. Serial No. 448,643. 2 Claims. (Cl. 106—24.)

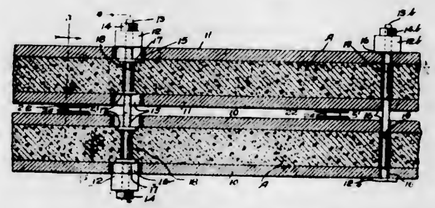
1. The herein described molding composition, consisting of water, paper, saw dust, cement, lamp black, Paris green, linseed oil, wheat flour and brick dust substantially as described and for the purposes specified.

1,421,955. GOLF-BAG BALL RECEPTACLE. CHARLES B. KEMP, New York, N. Y. Filed July 30, 1921. Serial No. 488,588. 6 Claims. (Cl. 150—1.5.)



1. A golf bag involving a golf ball receptacle having an opening for the insertion of the balls, means for preventing withdrawal of the balls through said opening, and a closure for said receptacle arranged and adapted to permit the removal of the balls from the receptacle.

1,421,956. COLLAPSIBLE MOLD FOR CONCRETE STRUCTURES. HERMAN J. KESTLER, New York, N. Y. Filed Dec. 22, 1920. Serial No. 432,486. 20 Claims. (Cl. 25—131.)



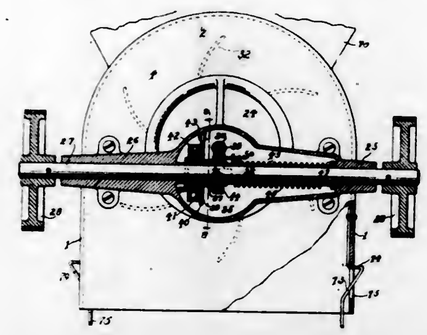
3. As a new article of manufacture, a collapsing core unit for use between the inner and outer molding means for molding double walls to hold said means spaced, said unit comprising elongated elements, the one element having a series of openings therein and the other element having a corresponding series of bevelled lugs adapted to enter said openings when the cores collapse and adapted to engage the other element at said openings by a relative longitudinal movement of said elements for expanding the unit.

5. A mold for forming double concrete walls, including plank sides arranged in pairs constituting mold sections to form said double walls, clamping means for the several series of planks, said clamping means extending through all the planks of both pairs, said clamping means including transverse bolts, and elongated vertically disposed elements on said bolts and extending along the joints at the inner sides of the respective series of planks, together with expansible means between those planks forming the inner sides of the respective mold sections.

9. A mold for concrete walls comprising planks forming the inner and outer sides of the mold, and corner

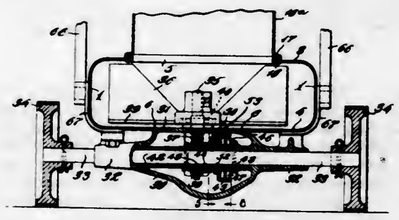
elements connected with the ends of adjacent planks, said corner elements including means for sustaining said corner elements offset from the general planes of the outer adjacent sides; together with an angle piece at the said corner and spaced from the first-mentioned corner element to determine the inner surface of the molded wall at the corner.

1,421,957. SUCTION SWEEPER. JAMES B. KIRBY, Cleveland, Ohio. Filed Oct. 7, 1918. Serial No. 257,108. 12 Claims. (Cl. 15—18.)



3. The combination with a dustpan and a rotatable brush located in operative relation thereto, of energy storing means of the fly-wheel type operatively connected to said brush, carrying wheels journaled to said dustpan, a driving member geared to said energy storing means, and a spring connected to said member and said wheels, said spring being adapted and arranged to be wound up with the forward movement of said dustpan and also to operate said driving member in a direction to turn said energy storing means in a direction to rotate said brush in a direction to throw litter upon said dustpan.

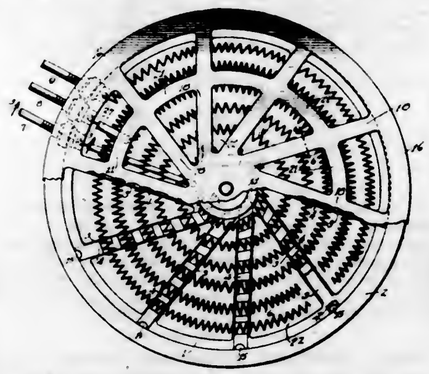
1,421,958. SUCTION SWEEPER. JAMES B. KIRBY, Cleveland, Ohio. Filed Apr. 12, 1919. Serial No. 289,617. 28 Claims. (Cl. 15—18.)



4. The combination, in a suction sweeper, of carrying wheels, a rotary fan, and a spring motor wound up by the wheels and arranged to drive the fan.

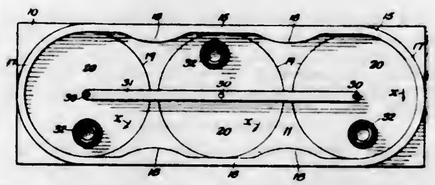
1,421,959. ELECTRICAL HEATING UNIT. ROYCE GERALD KLOEFFLER, Manhattan, Kans. Filed Nov. 26, 1920. Serial No. 426,473. 9 Claims. (Cl. 219—37.)

2. An electrical heating unit comprising a body portion having a plurality of spoke-like supporting members, an insulating strip carried by each of the said spoke-like members, resistance elements supported by said insulating strips, a cover portion having spoke-like members arranged to register with the first named spoke-like members, an insulating strip carried by each of the spoke-like



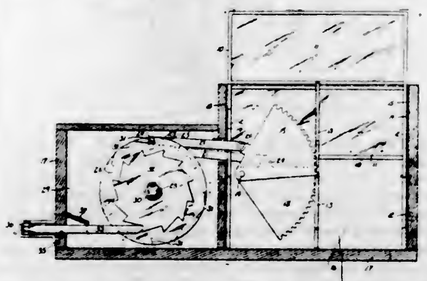
members of the cover for holding said resistance elements in position, and means for securing said cover to said body portion.

1,421,960. AMUSEMENT APPARATUS. WALTER F. KRAHE, Brooklyn, N. Y. Filed Feb. 10, 1921. Serial No. 443,798. 7 Claims. (Cl. 46—27.)



5. An apparatus of the class described comprising an elongated platform having semi-circular end portions, disks mounted in the end portions of said platform, another disk mounted in said platform intermediate of said first named disks, carriage members mounted on and movable over said platform and disks, and means for rotating all of said disks to move said members over said platform and from one disk to another.

1,421,961. AUTOMATIC ADVERTISING DEVICE. WILLIAM H. KUHNE, Waterbury, Conn. Filed Aug. 24, 1921. Serial No. 494,820. 3 Claims. (Cl. 40—60.)



1. In an automatic advertising device, the combination with a gang of independent, vertically-movable advertising-frames, each having a depending rack; of a series of complementary, frame-actuating mechanisms each having a gear meshing into the depending rack of its complementary frame and located below the same, and means operated by the movement of a door for successively operating the said frame-actuating mechanisms for the successive lifting and exposure of the said frames between which the gears are positioned to rise as the frames are successively elevated.

1,421,962. RAILWAY-SWITCH FILLER. DENNIS E. LAHEY, Louisville, Ky. Filed Feb. 18, 1922. Serial No. 537,488. 6 Claims. (Cl. 238—380.)



1. The combination with a stock rail and a switch point cooperating therewith, of a wedge shaped filler block arranged between said rail and switch point, said filler block being attached to and movable with the switch point.

1,421,963. RAILWAY SWITCH. DENNIS E. LAHEY, Louisville, Ky. Filed Feb. 18, 1922. Serial No. 537,489. 15 Claims. (Cl. 246—435.)



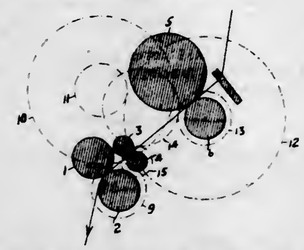
1. In a railway track, the combination with stock rails and movable switch points cooperating therewith, of guard rails arranged between the stock rails, each guard rail being bent intermediate its ends to provide a recess, and plates carried by the guard rails and arranged over the recesses for housing the switch points.

1,421,964. SHIPPING DEVICE. ROBERT H. LANGFORD, Springfield, Tenn. Filed Jan. 12, 1921. Serial No. 436,704. 2 Claims. (Cl. 220—82.)



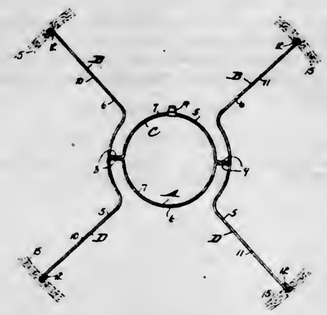
1. A shipping device of the character described, consisting of a container, a cover for said container having a sight opening and locking means, a window protecting said sight opening, a plate on the upper part of the cover surrounding said opening and retaining the window in place, a casing secured below said window, a slide mounted in said casing and having a pocket to carry address cards, and means in the casing for securing the slide in place.

1,421,965. HIGH SLIP-DRAFT APPARATUS FOR SPINNING COTTON ROVINGS. OTTO LATSCH, Oxford, Ala., assignor of one-half to George F. Hoffman, Philadelphia, Pa. Filed Feb. 4, 1922. Serial No. 534,018. 4 Claims. (Cl. 19—130.)



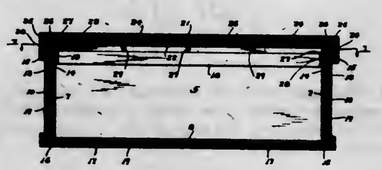
1. In high slip-draft apparatus for spinning cotton rovings the combination of a smooth top middle roll of weight and setting adjusted to permit slippage, means for positively driving said top middle roll, and a positively driven smooth bottom roll.

1,421,966. TIRE-CHAIN RETAINER. GEORGE J. LA VIGNE, New Haven, Conn. Filed Apr. 6, 1922. Serial No. 550,202. 3 Claims. (Cl. 152—14.)



1. A tire chain retainer, comprising two members formed from wire, and each including a semi-circular central section, bearings and radially-extending arms, the bearings of one member adapted to engage with the bearings of the other member, and the arms adapted to engage with a tire chain.

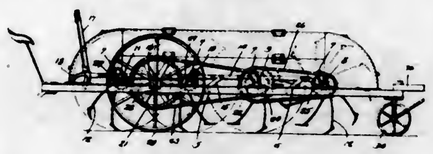
1,421,967. BURIAL BOX. FREDERICK LEES, Philadelphia, Pa. Filed Nov. 30, 1921. Serial No. 518,894. 2 Claims. (Cl. 27—7.)



1. A burial box of cementitious material having an inner wooden body, vertically spaced battens on the outer faces of the sides and end walls and longitudinal battens under said wooden body, a reinforcing strip completely surrounding the upper outer edge of the wooden body and secured to the aforesaid vertical battens, an inner facing strip secured to the inner upper edge of the wooden body and constituting one wall of a surrounding sealing

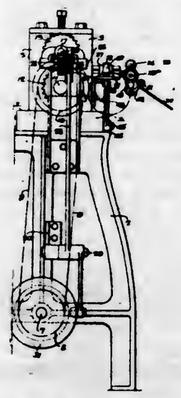
groove in the cementitious material, metallic fabric surrounding and attached to the aforesaid battens, the upper and lower edges of said metallic fabric being inturned to grip the upper and lower edges of the wooden body, and a cover for said burial box having an inner wooden face reinforced by metallic fabric and a depending angular cross section lip, said lip being adapted to seat in a groove about the said burial box, means for hermetically sealing said cover to the burial box, and means for transversely bracing the burial box against expansion or contraction.

1,421,968. FARMING MACHINE. JOHN H. LEWIS, Rhinelander, Wis. Filed Sept. 21, 1920. Serial No. 411,712. 2 Claims. (Cl. 97—25.)



1. An agricultural machine including an outer frame and an inner frame, bull wheels for supporting the frames, a plurality of bearing members supported on the frames, each of said bearing members including an elongated curved opening, a plurality of shafts supported on the frame, and having their extremities operating in the opening, operating means having connection with the shafts for moving the shafts into and out of operation, and a plurality of earth engaging arms supported by the shafts.

1,421,969. MEANS FOR CUTTING FABRICS. RUDOLF LOEB, Jenkintown, Pa. Filed Sept. 1, 1920. Serial No. 407,453. 11 Claims. (Cl. 164—77.)

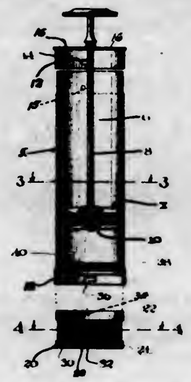


1. The combination in a machine for cutting fabrics, of means for severing the fabric at predetermined intervals; and means in advance of the severing means for guiding and placing tension on the fabric.

1,421,970. PAINT COMPOSITION. JAMES B. MCCARTNEY, Muscatine, Iowa, assignor of one-fourth to Evert F. Richman and one-fourth to Charles J. Richman, both of Muscatine, Iowa. Filed Nov. 29, 1920. Serial No. 427,180. 3 Claims. (Cl. 134—52.)

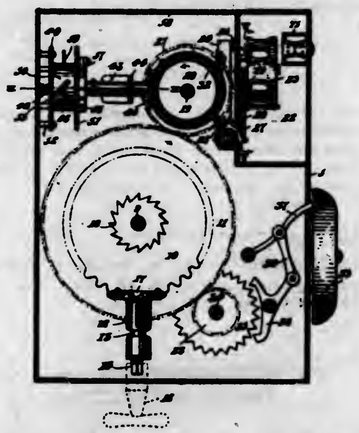
3. A coating composition consisting of eight ounces of gasoline, one ounce of carbon bi-sulphide, one ounce of paraffin oil, enough coal tar to make with the foregoing ingredients one gallon of mixture, and enough comminuted shells to give to the mixture the desired consistency.

1,421,971. HYDROCHEMICAL CLEANER. BERT MCCARTY, Tampa, Fla. Filed Nov. 1, 1920. Serial No. 421,145. 9 Claims. (Cl. 141—1.)



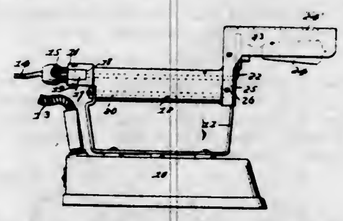
2. A portable cleaning device comprising a hand pump having a cylinder and a plunger, a cylindrical foraminous receptacle having an open end flatly abutting the forward end of said cylinder, said cylinder and said receptacle being of the same diameter, an attaching flange surrounding the adjacent portions of said receptacle and said cylinder, the forward portion of said cylinder being provided with a reticulated end wall.

1,421,972. BURGLAR ALARM. JOSEPH F. MACKOVITCH, Conway, Pa., assignor of one-third to Mandaline Mailing, Pittsburgh, Pa. Filed Dec. 17, 1921. Serial No. 523,047. 8 Claims. (Cl. 116—23.)



5. An alarm mechanism of the class described comprising a spring motor, a gear driven thereby, a pivot hammer having a firing pin, a spring for urging the hammer to firing position, means including cooperating pins upon the hammer and gear for intermittently swinging the hammer from firing position as the gear is rotated, a second gear rotatable with the first named gear, a stationary spindle, a hollow shaft journaled upon and slidable longitudinally on said spindle, a pinion fixed upon one end of the hollow shaft, a spring normally urging the hollow shaft in one direction to engage the pinion with said second named gear, means to cause endwise movement of the hollow shaft upon rotation of the same in one direction to disengage the pinion from the second named gear, ratchet means for preventing rotation of the hollow shaft in the opposite direction to which it is urged by said motor, means to rotate said hollow shaft including a flexible member, means for causing endwise movement of the hollow shaft including a drum to which the flexible member is attached and which is provided with an oblique elongated slot, said drum being fixed upon the hollow shaft, and a radial pin being fixed upon the spindle and projecting into said slot.

1,421,973. SADIRON LIGHT. CHARLES L. MALLOY, Cosidale, Pa. Filed June 8, 1920. Serial No. 387,311. 1 Claim. (Cl. 240—2.)

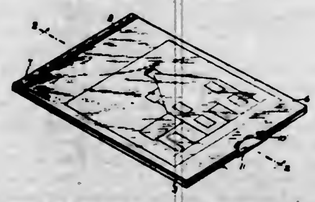


A sad iron having a grip or handle formed at its rear end with a block extension which is slotted transversely, a block fitted in said slot or recess and forming one member of a coupling, bolts passing through the block extension and through the block to secure the two together, electrical connectors carried by the block, a conductor passing longitudinally through the handle member and connected with said connectors in said block, a socket mounted on the forward end of the handle and electrically connected with said conductor, a lamp carried by the socket member, a shade or reflector mounted on the handle member and disposed to reflect the light from the lamp to the surface which the iron traverses, and a terminal block removably engageable with said connectors.

1,421,974. METHOD OF PRODUCING NONSHATTERABLE GLASS. OTTO S. MARCKWORTH, Columbus, Ohio. Filed Mar. 26, 1919. Serial No. 285,348. 22 Claims. (Cl. 49—81.)

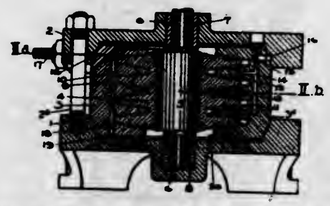
16. A method of producing non-shatterable glass comprising immersing assembled glass and celluloid laminæ in a solution consisting of fusel oil, camphor and methyl salicylate while the solution is at a temperature between 24 degrees and 35 degrees centigrade, subsequently raising the temperature of the solution which has been applied to the laminæ, applying pressure to the laminæ, and subjecting the parts to a progressively increasing temperature during the pressure.

1,421,975. TRACING DEVICE. J NICHOLAS MEYERS, Philadelphia, Pa. Filed Jan. 25, 1921. Serial No. 439,823. 1 Claim. (Cl. 35—10.)



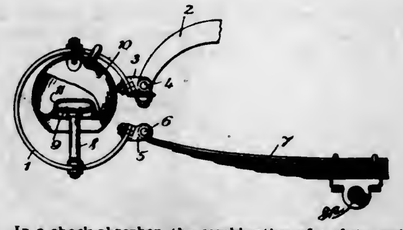
As an article of manufacture, a copying device presenting a relatively rigid base, a transparent flexible copying surface, a flexible connection for hingedly and permanently connecting said transparent copying surface to the base whereby articles of various thicknesses may first be adjusted on the base, then covered by said transparent copying surface and clamped between the two without disturbing the articles, and a clasp pivotally carried by the relatively rigid base adapted to engage the transparent copying surface to effect an optional clamping of the article to be copied and the transparent copying member to the rigid base.

1,421,976. METHOD AND APPARATUS FOR PUMPING FLUIDS. ANTHONY G. M. MICHELL, Melbourne, Victoria, Australia, assignor to Michell Bearings Limited, Westminster, England. Filed Aug. 5, 1919. Serial No. 315,476. 3 Claims. (Cl. 103—44.)



1. A method of pumping consisting in cyclically varying the thickness of a film of the fluid to be pumped between closely fitting and relatively moving surfaces, whereby pressure, dependent on the viscous resistance of the fluid, is generated in the film during the portion of the cycle in which the thickness of the film is diminished.

1,421,977. SHOCK ABSORBER. KARL MICKLEY, Zurich, Switzerland, assignor to the Firm Alfred Jost & Co., Zurich, Switzerland. Filed Apr. 19, 1921. Serial No. 462,651. 4 Claims. (Cl. 267—32.)



1. In a shock-absorber, the combination of a plate spring curved to a hoop shape and interposed between two members for transmitting a load from one of said members to the other, and an air-cushion device operatively connected to said plate spring in the manner of a stay, at points lying between the ends of said plate spring and the part opposite said ends and tending to counteract the compression of said plate spring caused by the load.

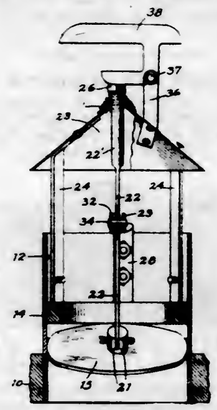
1,421,978. PROCESS OF MAKING ARSENIC TRICHLORIDE. LOWELL H. MILLIGAN, New Kensington, Pa., assignor to Newton D. Baker, Secretary of War. Filed June 12, 1920. Serial No. 388,663. 13 Claims. (Cl. 23—13.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

12. In a process for making arsenic trichloride, heating an arsenic compound with chlorine and a reducing agent.

1,421,979. FIRE EXTINGUISHER. HOWARD S. MITCHELL, Homer, La. Filed June 25, 1920. Serial No. 391,592. 3 Claims. (Cl. 220—88.)

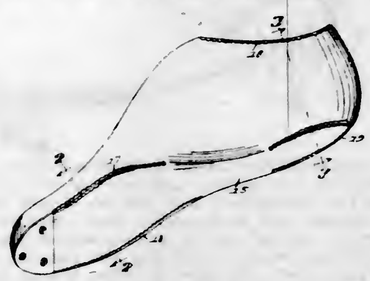
3. The combination with a storage tank having a vent opening, of an apparatus of the character described com-

prising a casing fitted in said opening, a normally opened valve arranged within the casing and including a valve stem having an opening therein, a member secured to the casing and extended across the top thereof, said member having an opening, an explosive chamber supported by said member and adapted to receive a charge of explosive, a pivoted latch element associated with said member and



adapted to be arranged in parallelism therewith, said element having an opening adapted to register with the aforementioned opening, a fusible pin adapted to be passed through said openings for holding the valve in an open position, a plug carried by said element for closing said explosive chamber, said explosive when ignited effecting the release of said valve, and means for automatically closing the valve subsequent to its release.

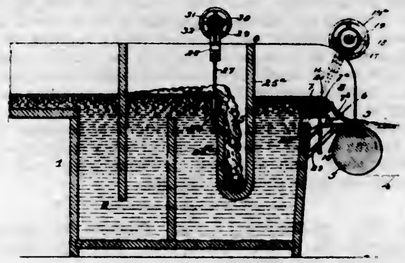
1,421,980. METHOD OF PROTECTING SHOE LASTS. FREDERICK L. MORSE, Framingham, Mass. Filed July 9, 1920. Serial No. 394,953. 1 Claim. (Cl. 12—133.)



The method of protecting a shoe last consisting in applying metallic plates to embrace the edges of the last and anchoring the said plates at their edges, and in finishing the said plates on each side of the edges of the last to which the plates are applied to the contour of the contiguous surfaces of the last.

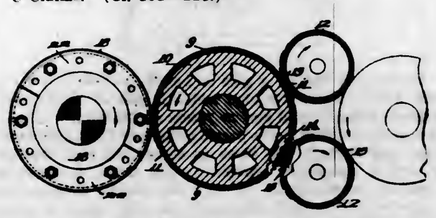
1,421,981. METHOD OF AND APPARATUS FOR FEEDING PULP TO THE FORMING WIRES OF PAPER-MAKING MACHINES. JAMES M. MURRAY, Berlin, N. H., assignor to International Paper Company, a Corporation of New York. Filed Aug. 16, 1918. Serial No. 250,101. 21 Claims. (Cl. 92—44.)

1. The method of feeding pulp to the forming wire of paper making machines, which consists in providing a pool of the pulp, delivering the pulp from the pool onto the forming wire in a downwardly flowing stream free from



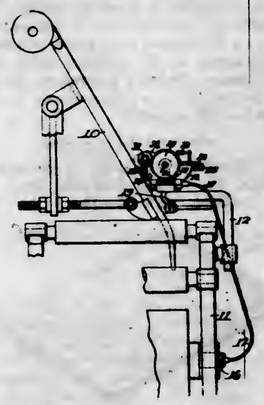
disturbing influences, and permitting the pulp to advance with the wire free from obstruction above.

1,421,982. PRINTING COUPLE. CONRAD NORDFORS, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Sept. 26, 1918. Serial No. 255,848. 8 Claims. (Cl. 101—216.)



1. The combination with a printing plate cylinder, having plates thereon and between the plates plate high margin bars, of an inking roller therefor having a surface depression registering with the margin bars to prevent inking their surfaces.

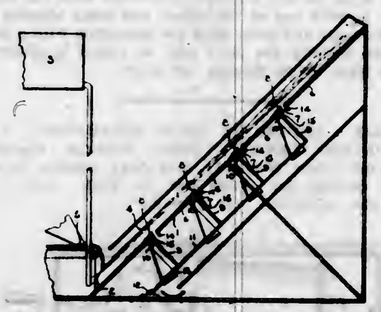
1,421,983. MACHINE FOR COUNTING OUT AND MARKING PRINTED PRODUCTS. CONRAD NORDFORS, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Dec. 11, 1918. Serial No. 266,211. 3 Claims. (Cl. 270—20.)



1. The combination of the stationary former plate of a paper folder, with freely rotatable means movable to a

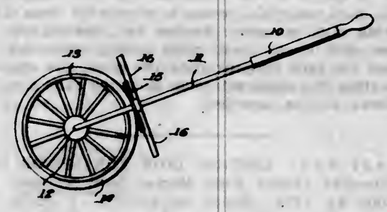
position to press the web against said plate and adapted to be turned by the movement of the paper for marking the last one only of each series of products of a predetermined number, while passing over said plate.

1,421,984. CONCENTRATING PULVERULENT MATERIAL. FRANK ONDRA, Johannesburg, Transvaal, South Africa, assignor to Concentrators Limited, Johannesburg, Transvaal Province, South Africa, a Company of the Transvaal Province of the Union of South Africa. Filed Jan. 28, 1920. Serial No. 354,646. 3 Claims. (Cl. 83—82.)



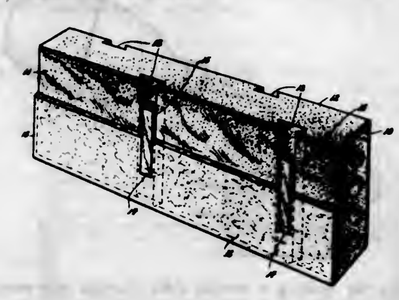
2. The herein-described process of concentrating pulverulent material in the art of mineral separation which consists in first causing the particles to be mixed with a fluid under pressure and to be projected by such pressure in a stream following an uninterrupted path inclined at an angle to the vertical; collecting the particles as they fall due to their weight from said stream in prearranged zones to obtain a plurality of collections of particles each containing both gangue and mineral particles of substantially the same weight but varying as to size; and then separating the patricles according to size to separate the mineral from the gangue particles.

1,421,985. TOY. LORENCE ORUSSA, Roanoke, Ill. Filed Nov. 5, 1920. Serial No. 422,001. 1 Claim. (Cl. 46—38.)



A device of the character described comprising an elongated rod having one end provided with a handle and having its other end formed with a right angularly extending axle portion, a ground engaging wheel journaled upon said axle portion and provided with a rubber tire, and a spinning member rotatable upon said rod at right angles to said wheel and engaging said tire whereby to be rotated thereby when said wheel is trundled along the ground, said spinning member comprising a disk and crossed arms secured thereon, the disk being of relatively small diameter and engaging against the periphery of said tire, and the cross-arms being relatively long and extending beyond the wheel.

1,421,986. WALL CONSTRUCTION. ELMER V. PHILLIPS, Philadelphia, Pa. Filed Nov. 30, 1920, Serial No. 427,500. Renewed Dec. 8, 1921. Serial No. 520,987. 1 Claim. (Cl. 72—105.)



The combination with a wall structure formed of units having channels therein with undercut walls, of blocks positioned within the channels and having beveled edges cooperating with the undercut walls, the faces of the blocks projecting outwardly from the surface of the units, a body of plastic material applied to the surface of the wall, extending between the blocks and the floor, and flush with the face of the blocks, a base board overlying the blocks thus embedded and the flush body of plastic material, and devices for securing the base board to the blocks, and holding said board in intimate contact with the blocks, and in contact with the surface of the plastic material and the floor.

1,421,987. TOOL FOR RELEASING AN AIR VALVE FROM RIM OF AN AUTOMOBILE TIRE. ELMER QUINN, Philadelphia, Pa. Filed Apr. 5, 1921. Serial No. 458,664. 2 Claims. (Cl. 29—84.)

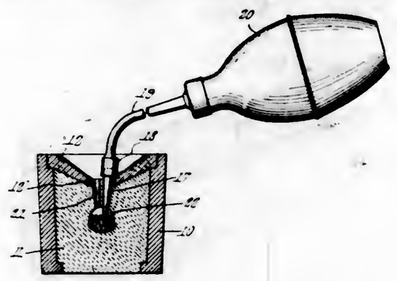


1. In a device of the character described, a tool having at its lower portion a chamber provided with an upper wall 6, a rear wall 5, and side walls 3, the latter having the terminal horizontal edges 8, and the outer depending terminal lips 7, whereby a chamber is formed between the walls 3 and 5 adapted for the reception of the upper end of the nipple, said terminal lips being adapted to overhang the upper shoulder of said nipple.

1,421,988. APPARATUS FOR CASTING FILLINGS FOR TEETH. WILLIAM H. RICHARDS, Knoxville, Tenn. Filed Dec. 16, 1921. Serial No. 522,980. 7 Claims. (Cl. 32—27.)

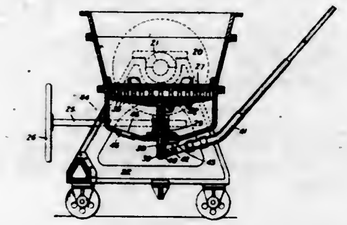
1. In apparatus of the character described, a mold having a cavity formed therein receiving the impression

element, a pair of tubular sprues extending through the material of the mold and leading into the cavity, and



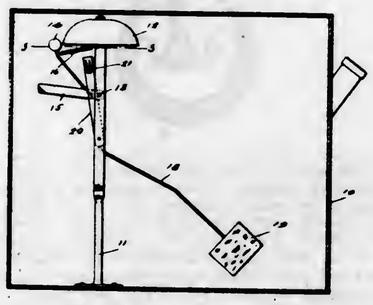
means for passing a heated fluid through one tubular sprue.

1,421,989. BLAST-ROASTING APPARATUS AND THE LIKE. GILBERT RIGG, Melbourne, Victoria, Australia, assignor to Mining and Metallurgical Process Proprietary Limited, Melbourne, Australia. Filed June 9, 1920. Serial No. 387,663. 9 Claims. (Cl. 266—21.)



1. In blast roasting operations and the like for the treatment of ores maintaining the permeability of the charge by periodically breaking perforating or opening up the clinker formed over the grate thus permitting a uniform passage of the blast.

1,421,990. SIGNAL. VINCENT R. RINDT, Winter, Wis. Filed May 28, 1921. Serial No. 473,472. 3 Claims. (Cl. 116—110.)



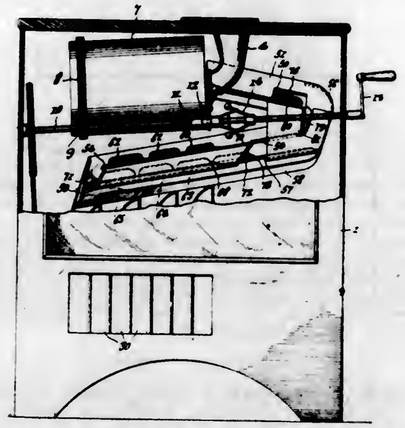
1. The combination with a liquid containing receptacle, of a standard arranged within the receptacle, a bell supported by the standard, a spring pressed hammer normally contacting said bell, and float actuated means for moving the hammer away from said bell against the tension of said spring, and subsequently releasing the hammer for the purpose specified.

1,421,991. FISH LURE. CLAUDE M. RODGERS and ARTHUR W. WENGER, Warsaw, Ind. Filed May 31, 1921, Serial No. 473,596. Renewed May 20, 1922. Serial No. 562,528. 6 Claims. (Cl. 43—42.)



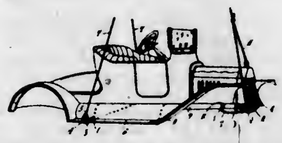
6. A fish lure comprising a plate having upstanding sides cut away at opposite points intermediate its length, a hook secured to the plate with the barbed portion upward and with the shank engaging the plate in position to clamp a flexible trailer between itself and the plate, and a spoon having a flexible connection with the plate at the forward end of the latter, and being adapted at both its upper and lower sides for connection with a fishing line, whereby the plate may be guided to different depths when drawn through the water.

1,421,992. AUTOMATIC COIN SEPARATING AND COUNTING DEVICE. HENRY WILLIAM ROEBLING, EDWARD HUGH WILLIAMS, and JOHN GEORGE BAUER, New Orleans, La. Filed Mar. 21, 1921. Serial No. 454,014. 6 Claims. (Cl. 133—3.)



1. A device of the character described comprising a coin chute comprising means to receive the coins, a plate having rails one above another for receiving the coins from said means, said plate having graduated slots above the rails for separating the coins, and means for diverting the mutilated coins from the rails and slots, substantially as described.

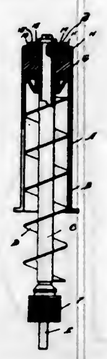
1,421,993. LIFTING IRON FOR MOTOR CARS. CHARLES ALBERT ROFE, Marton, New Zealand. Filed July 24, 1919. Serial No. 313,078. 1 Claim. (Cl. 294—82.)



A lifting iron comprising a body portion and end portions, each of the end portions being offset at an angle to the body portion, and extending on opposite sides to each other, end hooks formed on the ends of the body portion, one of said hooks extending at substantially

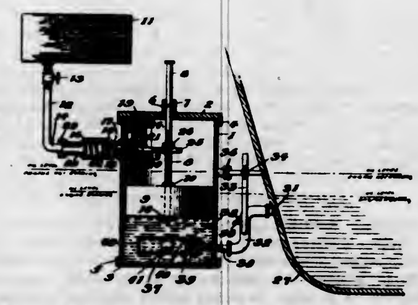
right angles to the end portions and the other within the same plane therewith, the said iron being adapted to be inserted in a substantially horizontal position beneath the running board of an automobile to engage with the bracket or chassis.

1,421,994. DRIVING MECHANISM FOR LOCOMOTIVE STOKERS. JOHN W. ROHRER, Columbus, Ohio. Filed May 22, 1920. Serial No. 383,582. 1 Claim. (Cl. 192—43.)



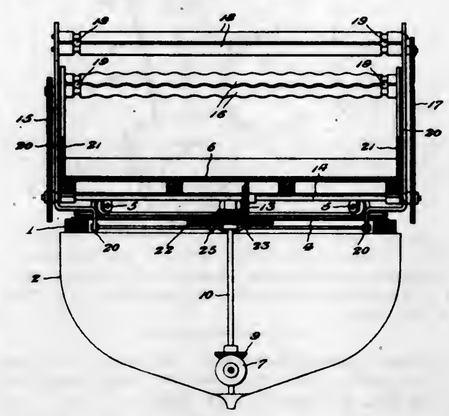
In a locomotive stoking device including a casing, a head formed on one face with a ratchet, a conveyor having a shaft passing through said head, and a member carried by the shaft of the conveyor adjacent said ratchet; driving mechanism comprising pairs of pawls pivoted upon said member, a disk mounted upon said shaft and disposed against the outer end of said member, said disk being provided at diametrically opposite sides with cut-out portions and being provided intermediate said cut-out portions with an arcuate slot, said member being formed at diametrically opposite sides with slots registering with the first named cut-out portions, lugs extending from said pawls and disposed through said second named slots and extending into said cut-out portions, and a guide bolt for said disk carried by said member and extending through the arcuate slot in the disk, and an extension on the disk serving as a combined handle and indicator and movable over a scale on said member.

1,421,995. LUBRICANT-CONTROLLING DEVICE FOR AUTOMATICALLY CONTROLLING THE LUBRICATING SYSTEM OF GAS ENGINES OF AUTOMOBILES AND OTHER MOTOR VEHICLES. ALFRED J. ROWAN, Sault Ste. Marie, Mich. Filed Aug. 26, 1921. Serial No. 495,638. 6 Claims. (Cl. 184—103.)



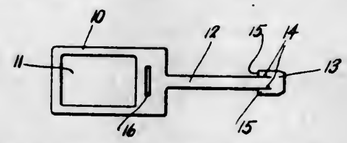
1. A lubricating controlling device of the class described including a receptacle, means for automatically maintaining the oil within the receptacle at a predetermined level, a connecting pipe for connecting the receptacle with a crank case, and gravity acting means for closing the connecting pipe when the same is tilted either longitudinally or laterally.

1,421,996. SEINE-OPERATING MECHANISM. TOM RUNNING, Juneau, Territory of Alaska. Filed Oct. 17, 1919, Serial No. 331,396. Renewed Dec. 3, 1921. Serial No. 519,802. 2 Claims. (Cl. 254—137.)



1. A seine operating device comprising a turntable, uprights thereon, a pair of rollers mounted in said uprights, a rocking frame carried by the platform, a pair of rollers carried by said frame, all of said rollers having grooves adjacent their ends for permitting the floats and sinkers on the seine to pass between the rollers, means for rotating the rollers and means for rocking the frame.

1,421,997. LINK. JOHN V. SANDQUIST, Houston, Tex. Filed July 13, 1920. Serial No. 395,919. 5 Claims. (Cl. 59—91.)

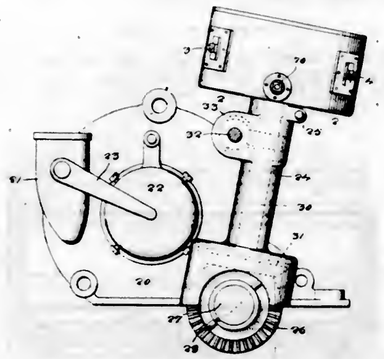


1. A link comprising a member having an opening therein, a substantially T-shaped bendable member adapted to be bent upon itself to provide a loop and having the head thereof associated with the link and bendable tongues forming an integral part of the structure for locking the head in active association with the link.

1,421,998. COMMUTATOR AND BATTERY-CHARGING OUTFIT INCLUDING THE SAME. DONALD S. SCARBOROUGH, St. Louis, Mo., assignor to Peter Douros, East St. Louis, Ill. Filed Apr. 11, 1919. Serial No. 289,351. 2 Claims. (Cl. 175—364.)

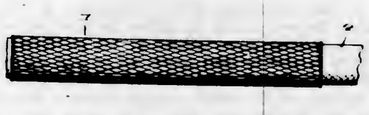
1. The combination of a cover, a housing integral with said cover and having a comparatively large lower portion and a sleeve extending upwardly from said lower portion and provided with an upper clamp portion, a shaft having a miter gear interposed in the lower portion of the housing, a shaft disposed in the sleeve portion of the housing and having a miter gear intermeshed with that of the first-named portion, a commutator rotor fixed

on the second-named shaft, above the housing, and a casing carrying brushes opposed to said rotor member and having a portion disposed in the clamp portion of



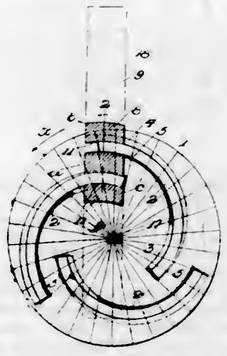
the housing, whereby the casing may be turned about the second-named shaft for the adjustment or setting of the brushes.

1,421,999. SHOE-STRING TIP. RUDOLPH F. SCHILLER, Sun Prairie, Wis. Filed Feb. 21, 1922. Serial No. 538,180. 2 Claims. (Cl. 24—143.)



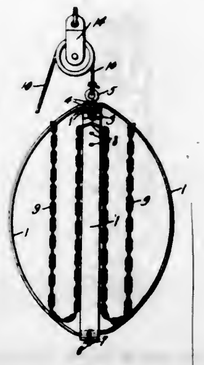
1. A tip for shoe strings comprising a cylindrical member having its bore provided with impinging elements, said tip designed, when inserted over a shoe string to be pulled from the opposite ends thereof to expand the same longitudinally and to contract the same laterally and in such contraction to cause the impinging elements to enter the shoe string.

1,422,000. CAM GEARING. HENRY J. SCHMICK, Williamsport, Pa. Filed Mar. 1, 1918. Serial No. 219,809. 6 Claims. (Cl. 74—36.)



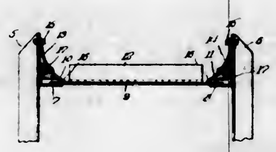
1. In gearing, the combination of a plurality of spirally disposed cams having overlapping ends, the working faces of said cams being twisted substantially as described, and a gear wheel having teeth twisted transversely and circumferentially to fit the twisted cam surfaces.

1,422,001. CHIMNEY CLEANER. ALONZO H. SHARP and WILLIAM D. COCKRELL, Aldrich, Minn. Filed Apr. 23, 1921. Serial No. 463,809. 2 Claims. (Cl. 15—163.)



1. A cleaner of the class described including bowed scraping members radially disposed about a common axis, said members having adjustably connected lapping terminals, means connected to the terminals at one end of the membera for raising and lowering the device, and looped flexible cleaning elements interposed between and connected to the upper portions of the bowed members.

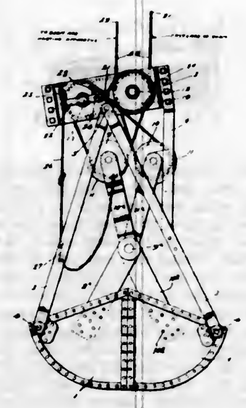
1,422,002. CONVEYER. ARTHUR L. SHAW, Chicago, Ill., assignor to Chicago Automatic Conveyor Co., a Corporation of Illinois. Filed Nov. 22, 1920. Serial No. 425,619. 4 Claims. (Cl. 199—204.)



1. A conveyer having a traveling belt; continuing supports for the edge of the belt; a flexible guide having its lower edge resting on the margin of the belt and extending upwardly and outwardly therefrom, and means preventing lateral movement of the guide away from the belt.

1,422,003. SINGLE-LINE GRAB-BUCKET CONSTRUCTION. ARTHUR M. SHEARER, Indiana, Pa. Filed July 23, 1920. Serial No. 398,368. 8 Claims. (Cl. 37—30.)

1. In a single-line grab bucket construction, the combination of a head, swinging bucket sections connected with and suspended therefrom, sheaves connected with the bucket sections, drums and pulleys carried by the head, brake means also carried by the head and connected with one of the bucket sections and a single looped



line or cable suspending the head and bucket sections and engaging the sheaves, drums and pulleys, said head suspended by said looped line.

1,422,004. PROCESS OF OBTAINING ALUMINA. RALPH S. SHEAWIN, East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 16, 1914, Serial No. 812,594. Renewed Apr. 3, 1919. Serial No. 287,347. 13 Claims. (Cl. 23—13.)

10. In the leaching of sintered unfused alumina-silica-lime-soda mixtures, the step of heating to not above 200° F., such a sintered mixture and an alkaline solution of a sodium compound.

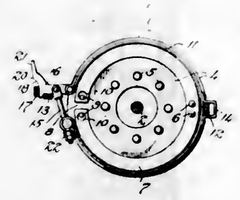
1,422,005. DIRECTION INDICATOR FOR MOTOR VEHICLES. FRANK SKARZYNSKI, Rochester, N. Y. Filed Oct. 20, 1921. Serial No. 509,007. 4 Claims. (Cl. 116—48.)



1. In a direction indicator for motor vehicles, a vertical shaft journaled for rotation and having a housing fixed upon the upper end thereof, a lamp socket mounted upon the exterior of one of the side walls of said housing and having an incandescent lamp therein, feed wires for said socket extending through the housing and shaft, means operatively connected to the lower end of the shaft for manually rotating the latter, and a hollow transparent indicator member having a flanged wrist portion secured against said side of the housing and having an open end into which the lamp and socket project.

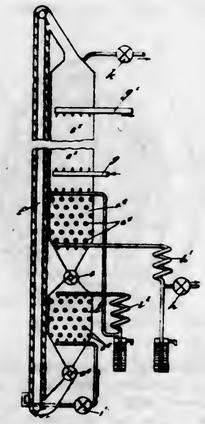
1,422,006. FRICTION BRAKE. GEORGE L. SMITH, Washington, D. C. Filed Apr. 3, 1920. Serial No. 371,017. 9 Claims. (Cl. 188—77.)

1. In a brake structure, the combination of a rotatable member, a compressible resilient and initially compressed brake element fixed to said member and tending to overcome compression thereof by the action of centrifugal



force thereon due to rotation of the member, and a second brake element engageable with the first element to further compress the latter.

1,422,007. METHOD OF STRIPPING THE ILLUMINANTS FROM AND OF PURIFYING COAL GAS BY MEANS OF CHARCOAL. FREDERICK SODDY, Aberdeen, Scotland. Filed Apr. 11, 1919. Serial No. 289,352. 11 Claims. (Cl. 48—197.)

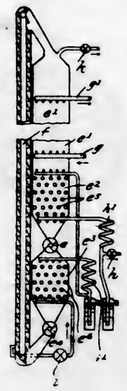


1. A process of treating coal-gas to separate methane, carbon monoxide and hydrogen on the one hand from naphthalene, benzene, ethylene and other illuminants on the other hand which process consists in relatively moving in contact with each other coal-gas and charcoal which is not cooled substantially below the ordinary temperature.

1,422,008. APPARATUS FOR PURIFYING COAL GAS. FREDERICK SODDY, Oxford, England. Filed Aug. 6, 1920. Serial No. 401,696. 3 Claims. (Cl. 48—178.)

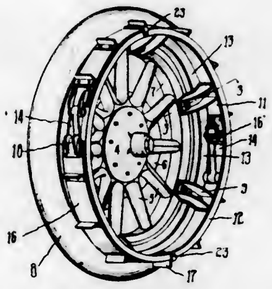
1. Apparatus for treating coal-gas to separate the non-illuminant hydrocarbon and other gases from the illuminants, comprising a container, a heated chamber, a cooled chamber and a chamber which is neither heated nor cooled in the said container, means for circulating charcoal successively through the heated chamber, the cooled chamber

and the chamber which is neither heated nor cooled, means for passing coal-gas through the last-named cham-



ber in counter-current to the charcoal and means for withdrawing gas from the heated chamber.

1,422,009. DRIVING CLEAT MECHANISM FOR MOTOR-VEHICLE DRIVING WHEELS. ALFRED T. STURT, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 4, 1919. Serial No. 342,387. 3 Claims. (Cl. 301—39.)



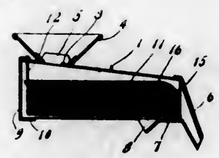
3. In a vehicle wheel, a cylindrical rim having an opening therein, an abutment secured to the inner surface of the rim adjacent said opening, a cleat supporting strip having a hook at one end adapted to engage an edge of said opening, means on the other end of the strip extending through the opening and engaging said abutment, said means comprising a bolt and nut whereby the strip may be tightened upon the rim.

1,422,010. RAILWAY-TRACK CONSTRUCTION. ANTON TAUCHAR, Dunlo, Pa. Filed Dec. 31, 1921. Serial No. 526,086. 5 Claims. (Cl. 238—135.)



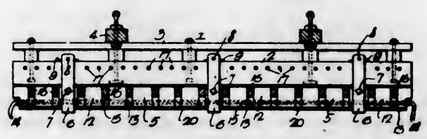
1. As an article of manufacture, a rail section having a longitudinal bore opening at opposite end faces of the rail section, the bore of the rail section at the ends of the latter being enlarged and internally threaded.

1,422,011. ASH SIFTER. RICHARD A. THIEDE, Camden, N. J. Filed Nov. 11, 1920. Serial No. 423,429. 1 Claim. (Cl. 83—60.)



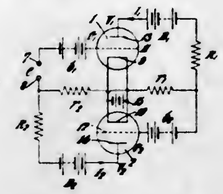
An ash sifter comprising a channel-shaped casing having an upper wall and side walls, the lower portions of the side walls being bent laterally to provide supporting flanges for resting upon the open upper end of a receiving receptacle, the upper wall of said casing having an inlet opening, a plate closing the rear end of the casing and having its lower end portion extending beneath the casing for resting upon the receptacle, a downturned discharge spout closing the forward end of the casing and having an extension extending beneath the casing for resting upon the receptacle, the extension being provided with a deflected lip for extending into the receptacle, and means in the casing for receiving ashes and after sifting the ashes passing resulting cinders through the discharge spout.

1,422,012. YARN RACK. WALTER S. TRICKETT, Groveville, N. J., assignor to Hussong Dyeing Machine Company, Groveville, N. J., a Corporation of New Jersey. Filed Jan. 7, 1922. Serial No. 527,596. 5 Claims. (Cl. 8—19.)



1. The combination in a yarn rack, of a main frame; bottom members located under the sides of the main frame; means for detachably securing the bottom members to the main frame, said bottom members being made in sections, some of said sections being notched; and means for securing the sections together.

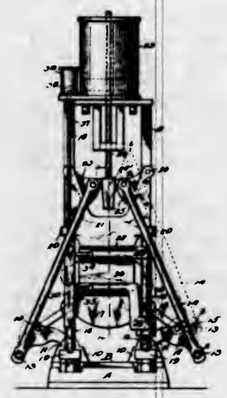
1,422,013. THERMIONIC APPARATUS APPLICABLE FOR WIRELESS TELEGRAPHY AND OTHER PURPOSES. LAURENCE BEDDOME TURNER, Cambridge, England. Filed Feb. 6, 1920. Serial No. 356,626. 6 Claims. (Cl. 250—8.)



1. In thermionic apparatus, the combination of a plurality of ionic tubes, each having a filament, a grid and an anode, connections including sources of current between the anode of one tube and the grid of a second tube in said apparatus, and between the anode of said second tube and the grid of said first mentioned tube, and a common branch connection including high ohmic resistances in the anode and grid circuits of both of said tubes,

whereby the anode of one tube and the grid of the second tube in said apparatus are connected, and the anode of said second tube and the grid of the first mentioned tube are connected to form a closed circuit cascade system.

1,422,014. COTTON COMPRESS. FRANK L. WHITE. Memphis, Tenn. Filed Sept. 16, 1919, Serial No. 324,141. Renewed Apr. 25, 1922. Serial No. 556,543. 8 Claims. (Cl. 100—19.)



1. In a press having upper and lower platens and hinged gates forming two sides of a press chamber, a high-density attachment comprising a reciprocable wedge and actuating means therefor, said wedge being disposed adjacent the free ends of the gates and reciprocable parallel to the axis thereof, said gates having projections on their free ends projecting into the range of action of said wedge and engaged by the latter to impart additional closing motion thereto.

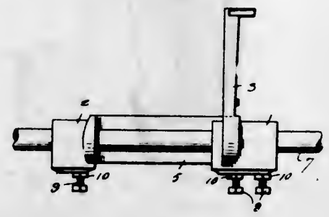
8. A cotton compress comprising a base and spaced columns rising therefrom; upper and lower platens; gates hung on said columns and coacting with the platens to form an enclosed baling chamber; curved levers pivoted on the base having hocket bearings in an intermediate portion and links mounted in said bearings and pivotally connected to the lower platen; lifting rods connected to the outer ends of the curved levers; curved cams pivotally-mounted above the baling chamber and to the upper portions of which the upper ends of the lifting rods are connected; a steam cylinder and piston rod; a rack-head on the lower end of the piston rod between the curved faces of said cams, said head having tapering sides provided with teeth and the curved faces of the cams having teeth engaged thereby; and a high-density attachment comprising a fluid-operated wedge for imparting further closing motion to a previously closed gate and thereby further compressing the material in the press-chamber.

1,422,015. CROSSCUT-SAW HANDLE. JOSEPH F. WILLIAMS, De Funiak Springs, Fla. Filed Apr. 1, 1921. Serial No. 457,726. 2 Claims. (Cl. 145—108.)



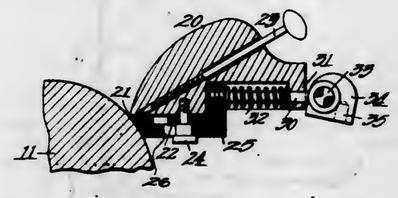
2. A saw blade handle comprising a straight shank having one end secured to the saw blade, the said straight portion of the shank extending considerably above the upper edge of the saw to provide a straight hand grip, an annular flange formed on the upper end of the straight hand grip, a curved hand grip extending from the said flange and curved toward the opposite end of the saw blade, the said curve being substantially quarter-circular, and a knob formed on the terminal of the said curved hand grip.

1,422,016. LOOM ROCK-SHAFT BEARING. JAMES A. WIX, Goldville, S. C. Filed May 25, 1921. Serial No. 472,398. 1 Claim. (Cl. 139—67.)



A loom rock shaft bearing comprising a pair of boxes having elongated and vertically disposed openings, blocks adjustable in said openings and engaging and forcing a rock shaft against the upper walls of the openings, a horizontally disposed U-shaped frame connecting the boxes, and a vertical arm formed on one of the boxes and adapted to be secured to the frame of a loom, said arm having projections and slots and the latter adapted to receive projections on the loom frame and the former to fit in depressions on said frame to prevent the arm from moving relatively to the frame.

1,422,017. PAGE CUT-OFF DEVICE FOR INK FOUNTAINS. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Dec. 19, 1917, Serial No. 207,976. Renewed Dec. 16, 1921. Serial No. 522,953. 11 Claims. (Cl. 101—365.)

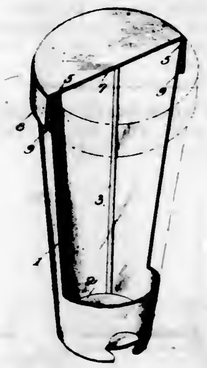


1. In an ink fountain containing a feed roll and regulating blade, a plurality of means operative between the surface of the ink and the blade for shutting off the supply of ink to different parts of the blade, said means abutting against each other at their side edges and constituting a continuous series throughout the length of said blade.

1,422,018. PAPER-MATERIAL CONTAINER AND THE LIKE. WILBUR L. WRIGHT, Fulton, N. Y., assignor to Sealright Co., Inc., Fulton, N. Y., a Corporation of New York. Filed June 19, 1918. Serial No. 240,815. 9 Claims. (Cl. 229—43.)

1. A paper can have a tapered body for nesting, the mouth of said can being at the tapered large open end thereof, said body being flexible and having its top edge crimped downwardly around said open end, in combina-

tion with a slip paper cover for closing said large open end of the body, said cover having a deep substantially-straight resilient flange at its free end forming a rolled

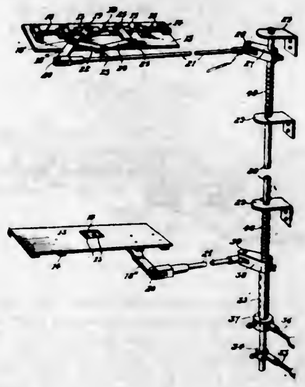


or crimped edge to cooperate with the large top edge of the body and with a portion of the body below said edge.

1,422,019. **ALLOY OF REFRACTORY METALS AND PROCESS OF FORMING SAME.** JOHN ADAM YUNCK, South Orange, N. J. Filed Jan. 17, 1913. Serial No. 742,711. Renewed July 14, 1921. Serial No. 484,617. 7 Claims. (Cl. 75—1.)

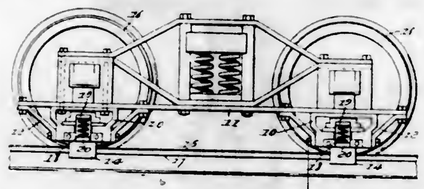
1. An alloy for use in making metal filaments and the like, composed of at least 95 per cent of metallic tungsten and the rest pure thorium.

1,422,020. **SASH-LOCKING DEVICE.** JOHN ZAK, Bergholz, Ohio. Filed July 6, 1921. Serial No. 482,674. 2 Claims. (Cl. 292—33.)



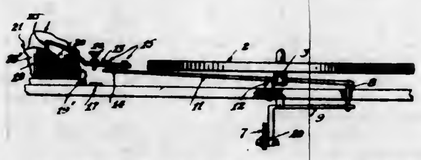
1. A sash locking device comprising a vertical rock shaft provided with means for mounting the same in a window frame and having an arm fixed upon the upper end portion thereof, a tubular rock shaft surrounding the first named rock shaft and rotatable relative thereto, an arm fixed upon the upper portion of said tubular rock shaft, locking devices provided with means for mounting the same within the upper and lower members of the window frame and normally yieldingly held in locking position, means operatively connecting each of said arms with one of said locking devices, and means to independently rock either one of said shafts relative to the other including a handle upon the lower portion of each shaft adapted to extend inwardly through the wall of the dwelling.

1,422,021. **DERAILING GUARD.** FRANK ZEIS, Trenton, N. J. Filed Apr. 23, 1921. Serial No. 463,753. 3 Claims. (Cl. 104—246.)



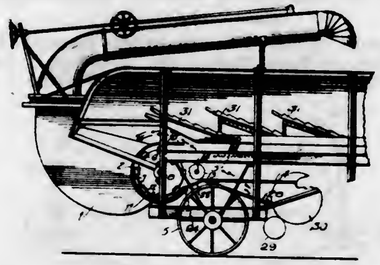
2. A derailing guard having a hanger for attachment to the bottom of a truck frame and a spring supported follower mounted for vertical movement in the hanger and provided with a depending inwardly directed foot for terminal arrangement beneath the outer side of a rail head, the shank portion of said foot being fitted with vertical anti-friction rollers for contact with the edge of the rail head.

1,422,022. **SOUND RECORDING AND REPRODUCING MACHINE.** WILLIAM E. BIRKET, Peoria, Ill. Filed Mar. 25, 1921. Serial No. 455,529. 12 Claims. (Cl. 274—1.)



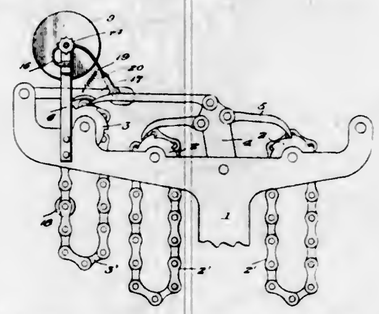
1. In combination with the tone-arm and governing means of a sound recording and reproducing machine, mechanism interposed between the said tone-arm and governing means directly engaging both adapted in the movement of the tone-arm to control the action of said governing means.

1,422,023. **THRASHING MACHINE.** EDD BOE, Clearbrook, Minn., assignor of one-fourth to Irvin Dewitt Kretser, Clearbrook, Minn., one-fourth to Dustin Wallace McNabb, Winnipeg, Canada, and one-fourth to Edwin Archer Halseth, Clearbrook, Minn. Filed Aug. 20, 1920. Serial No. 404,887. 5 Claims. (Cl. 130—27.)



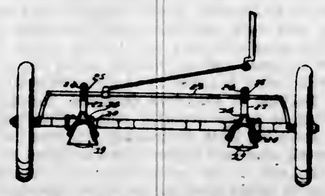
1. In a thrashing machine, means for thrashing grain, including a chaffer, a sieve parallel to and spaced from said chaffer, an auxiliary thrashing means disposed between said chaffer and said sieve, said auxiliary thrashing means comprising a thrashing cylinder having a plurality of teeth mounted thereon, a concave having a plurality of teeth disposed between the teeth of said thrashing cylinder, whereby grain is drawn through the teeth of said concave by the teeth of said thrashing cylinder, thus thrashing the grain, and means for returning the grain threshed by said auxiliary means to said chaffer and means being adapted to feed the grain to said first named means.

1,422,024. **REGISTER.** JAMES SAMUEL BOYD, Spray, N. C. Filed Sept. 28, 1920. Serial No. 413,386. 3 Claims. (Cl. 235—91.)



1. In combination with the control cylinder of a loom, a register and means for operating the same by a part on the chain of said cylinder.

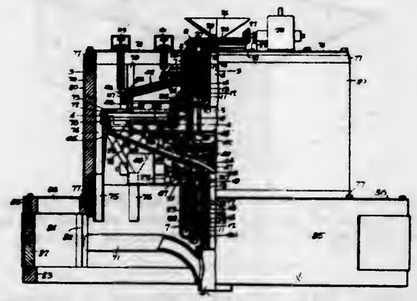
1,422,025. **DIRIGIBLE HEADLIGHT.** ALVEY L. BROGDEN, Abbeville, S. C. Filed Oct. 26, 1921. Serial No. 510,426. 2 Claims. (Cl. 240—62.)



1. A dirigible headlight attachment for automobiles having standards and means for attaching the same at their lower ends to the front axle of the vehicle and provided at their upper ends with bearing sleeves, bearings for registration with said bearing sleeves having means for attachment to the front axle, lamp carrying posts mounted revolubly in said bearing sleeves and bearings, and means for communicating motion from the steering bar of the vehicle to said posts and consisting of operating arms carried by the posts and terminally actuable by said steering bar, the bearings for the lower end of each post consisting of a bearing sleeve and a step bearing, and said operating arm being extended from the post between the same.

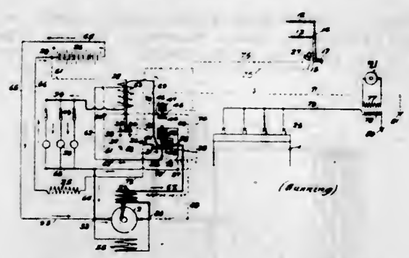
1,422,026. **PROCESS AND APPARATUS FOR ELECTROSTATIC SEPARATION OF FINELY-DIVIDED DISCRETE MATERIAL.** GEORGE RUDSTON BROWN, Bondi, near Sydney, New South Wales, Australia, assignor to Electrostatic Separation Company, Limited, Sydney, New South Wales, Australia, a Company registered according to the laws of the State of New South Wales, in the Commonwealth of Australia. Filed Jan. 7, 1920. Serial No. 349,975. 28 Claims. (Cl. 83—49.)

1. Process for electrostatic separation of finely divided discrete material wherein the material dried and hot is centrifugally cast against an electrode whereby its particles of comparative electrical conductivity become electrically charged and are thrust through one zone of an electrostatic field of force between said electrode and another electrode and to a second zone of said field of



force where they are momentarily sustained more or less free of the force of gravity as they centrifugally travel through said second zone to a point of discharge, while particles of insufficient electrical conductivity by arrest of centrifugal travel and by the force of gravity find another point of discharge, substantially as described.

1,422,027. **AUTOMATIC ELECTRIC GENERATING UNIT.** WILLIAM W. BUCHER, Chicago, Ill., assignor, by mesne assignments, to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed Mar. 20, 1919. Serial No. 283,910. 9 Claims. (Cl. 290—30.)

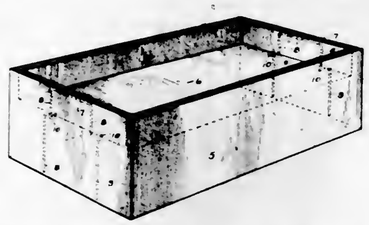


1. In combination with a gas engine operated generator, a storage battery and service mains, a control switch having a fine winding in circuit with the battery and the mains in order to be energized by a service demand, an engine ignition means in a circuit controlled by the control switch, a starting switch having a winding in a circuit also controlled by the control switch, a governor operated switch included in the last mentioned circuit, a motor circuit including the battery and the generator as a motor and controlled by the motor starting switch, a main switch having a winding connected in circuit with the generator and energized when the generator is driven by the engine, said control switch having a coarse wire winding in circuit with the mains and the generator and controlled by the main switch, said main switch having an interlock included in the starting switch winding circuit, and a charging resistance in circuit with the battery and the generator and controlled by the main switch.

1,422,028. **BOX TRAY SUPPORT.** WILLIAM L. BUEDINGEN, Milwaukee, Wis. Filed May 22, 1920. Serial No. 383,606. 3 Claims. (Cl. 248—20.)

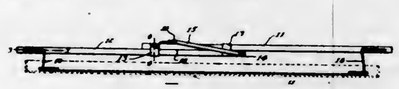
2. In a device of the class described, the combination with a box and a tray adapted to be supported therein and spaced from the bottom thereof, of means substan-

tially independent of the box and tray for readily removably supporting the tray within the box and including



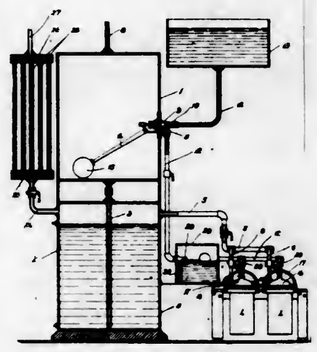
supporting legs resting upon the box bottom, an upper portion confined between the adjacent walls of the box and tray, and shelf means upon which the tray rests.

1,422,029. FILM HOLDER. WILLIAM S. BRACKNEY, Elizabethton, Tenn. Filed Sept. 18, 1920. Serial No. 411,078. 4 Claims. (Cl. 95—100.)



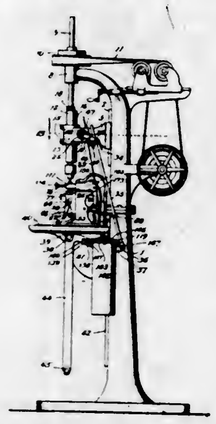
1. A film holder comprising an elongated body portion and pivotally mounted spaced film engaging members extending laterally from said body portion for detachable engagement with a film.

1,422,030. ACETYLENE-GAS-LIGHTING PLANT. DUNCAN CARMICHAEL, Ancoats, Manchester, England. Filed Dec. 26, 1919. Serial No. 347,392. 2 Claims. (Cl. 48—31.)



1. An acetylene gas plant, comprising a generator, a tank adapted to contain water, means for delivering gas from the generator to said tank above the water contained therein, a second tank connected to the lower portion of said first tank to receive water expelled from the first tank by gas pressure from the generator, a water supply pipe, a valve in said pipe, a sealed tank to receive water from said water supply pipe, a connection between said sealed tank and said generator and through which water passes to said generator, float-controlled means in said second tank for closing the valve in said water supply pipe when the water delivered to said second tank by the pressure of gas in the first tank reaches a predetermined level, and float-operated means in said sealed tank to govern the supply of water to said sealed tank and from said sealed tank to the generator and operative to prevent the flow of water through the generator to said first-named tank and prevent back pressure of gas from the generator to the water supply means.

1,422,031. DRILLING MACHINE. THEODORE P. CAULKINS, Chicago, Ill., assignor to Edward T. Wray, Chicago, Ill. Filed Dec. 20, 1915, Serial No. 67,804. Renewed Nov. 24, 1917. Serial No. 203,866. 29 Claims. (Cl. 77—5.)



1. A machine of the character described, comprising, in combination, a primary source of power, a tool adapted to be actuated thereby, means for normally holding said tool in an inoperative position, a work support, work clamping means for clamping work thereon, tool feeding means, an actuator held normally in an inoperative position to be controlled by an operator, means for connecting said actuator with said work clamping means and means for connecting the same with said tool feeding means to bring said work clamping and tool feeding means into operation when said actuator is moved to an operative position.

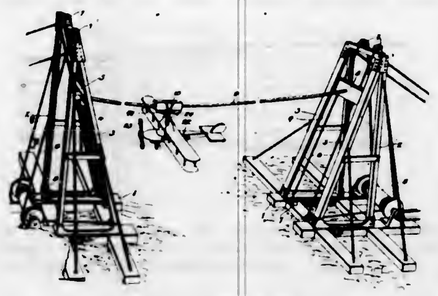
10. A machine of the class described, comprising, in combination, a power actuated tool, a work-support, a primary actuating lever, lever-actuated means for clamping the work upon said support, lever-actuated means for feeding the tool to the work, means for releasing the lever-actuated means when the operation is completed but before the end of the primary lever stroke, means for restoring the tool and the work clamping means to their respective normal positions, a sliding air actuated piston having a gage-stop thereon for discharging the work, and means, brought into action upon the latter part of the primary lever stroke upon the release of said first named lever-actuated means, for forcing air against said piston to discharge the work.

14. A machine of the class described, comprising, in combination, a work-support, work-clamping means for clamping work thereon, an actuator in operative connection with said clamping means to cause the clamping and releasing of the work, a gage for gaging the position of the work, a cylinder and piston, the latter of which is in operative connection with said gage, a source of compressed air, and means controlled by said actuator for admitting air under pressure to said cylinder for moving said gage to discharge the work.

1,422,032. AMUSEMENT DEVICE. FRANK CHAPMAN, Brooklyn, N. Y. Filed Mar. 27, 1922. Serial No. 547,300. 4 Claims. (Cl. 104—23.)

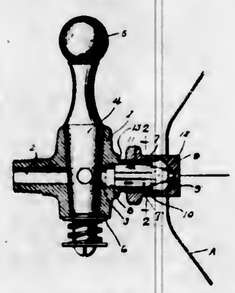
1. An aerial amusement apparatus, comprising in combination spaced derricks, carrier blocks adapted for vertical adjustment on the derricks, a supporting cable terminally

connected to the carrier blocks, a traveler adapted for traveling cooperation with the cable, a rod depending from



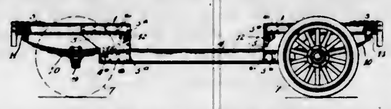
the traveler, an aeroplane car mounted for free rotary movement on the rod, and means for locking said car with respect to the rod.

1,422,033. GAS COCK AND JET PLUG THEREFOR. EMIL L. CLAUS, Milwaukee, Wis. Filed Oct. 16, 1920. Serial No. 417,361. 2 Claims. (Cl. 67—121.)



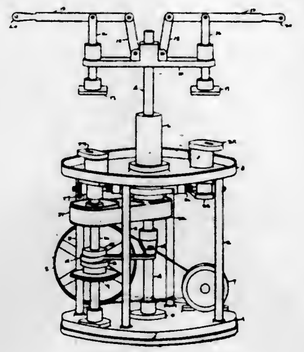
2. A gas cock, comprising a casing provided with an inlet and an outlet, valve means intermediate the inlet and outlet, a discharge nozzle surrounding the outlet and having a jet plug receiving bore, the outer end of said bore being slightly larger than the inner end portion and tapered theretoward, and a jet plug disposed in said bore, said jet plug including a relatively thin hollow shell, the main portion having longitudinal ribs forming channels whereby fluid may pass around the plug and the outermost diameter of said plug as defined by said ribs giving to have snug frictional engagement with the walls of said bore.

1,422,034. VEHICLE. JOSEPH W. COLLIER, Newark, N. Y., assignor to Arcadia Trailer Corporation, Newark, N. Y., a Corporation of New York. Filed May 14, 1921. Serial No. 469,729. 10 Claims. (Cl. 280—2.)



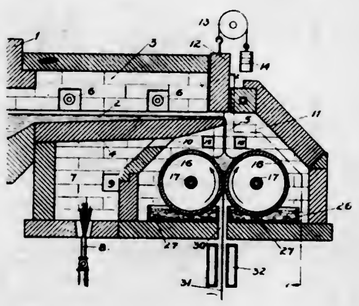
1. A vehicle frame having a side formed by two end bars and a center bar arranged below the end bars, the end bars and the center bar each having at least one horizontally presented flange, and plates secured to opposite ends of the center bar and to the end bars, said plates being shaped to engage the flange of the center bar and the flanges of the end bars.

1,422,035. GRINDER. CHARLES LEE COOK, Louisville, Ky. Filed Apr. 17, 1919. Serial No. 290,724. 11 Claims. (Cl. 51—26.)



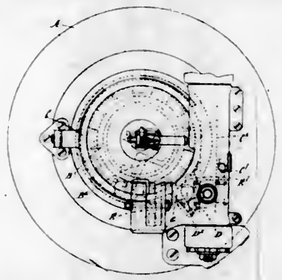
1. A plane surface grinder comprising a holder, means for giving said holder an oscillating movement in a plane parallel to the plane of the surface ground, and adjustable double eccentric means for setting the extent of either movement at any distance from zero to the sum of the throw of said eccentrics.

1,422,036. METHOD AND APPARATUS FOR PRODUCING SHEET GLASS. JOSEPH P. CROWLEY and CLIFFORD A. ROWLEY, Toledo, Ohio, assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 17, 1921. Serial No. 437,660. 25 Claims. (Cl. 49—17.)



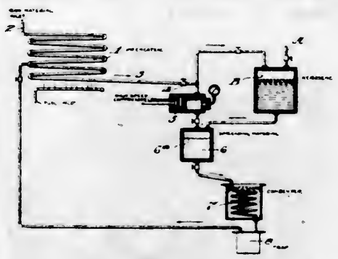
25. In an apparatus for continuously producing sheet glass, a source of molten glass, a pair of horizontal cylindrical metallic rollers having their cylindrical surfaces tinned, means for adjusting the rollers vertically and toward and from each other, means for internally cooling the rollers, means for rotating the rollers in opposite directions, a receptacle containing molten tin in which the lower portion of each roller revolves, means for flowing molten glass from the source into the trough between the rollers, the glass flowing through the slot formed by the contiguous surfaces of the rollers and emerging in the form of a downwardly moving sheet of glass, a heated chamber in which the rollers are located, having a slot in its lower side, and means for cooling the sheet as it emerges from the chamber.

1,422,037. ORDNANCE BREECH MECHANISM. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Oct. 26, 1921. Serial No. 510,656. 9 Claims. (Cl. 89—29.)



1. In ordnance breech mechanism, the combination with the breech screw, the swinging carrier in which said breech screw is mounted, and the axis pin of said carrier, of a breech screw withdrawing crank arranged to engage with the breech screw at a point substantially beneath the center line of the breech screw, a breech screw unlocking crank arranged with its axis in substantially the same horizontal plane as the axis of the withdrawing crank and means for operating said cranks from the carrier axis pin.

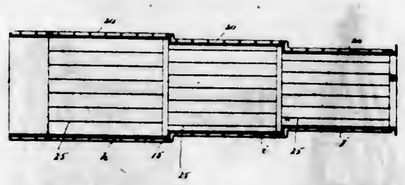
1,422,038. TREATMENT OF HYDROCARBON OILS. DAVID T. DAY, Washington, D. C. Filed June 17, 1919. Serial No. 304,749. 24 Claims. (Cl. 196—25.)



1. The process of producing hydrocarbon oils having low boiling points from hydrocarbon oils having high boiling points, which consists in vaporizing at least a part of the oil to be treated and immediately compressing the material so treated in a cylinder by the action of a sliding piston which moves substantially instantaneously to generate pressure and heat sufficient to heat and compress the vaporized material to the temperature and pressure of conversion.

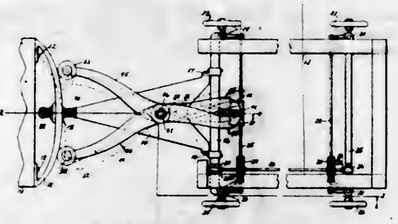
1,422,039. DRUM FOR DRYING PULP AND THE LIKE. CHARLES L. DEAN, Denver, Colo., assignor to Stearns-Roger Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Mar. 24, 1920. Serial No. 368,325. 9 Claims. (Cl. 34—6.)

8. A sectional drying drum embracing longitudinal tubular sections fastened end to end each section comprising a demountable shell consisting of peripheral sectors detachably secured together and a series of partition plates secured inside the sectors, means for supporting said partition plates in properly spaced relationship, the plate nearest the diametric plane of the section being



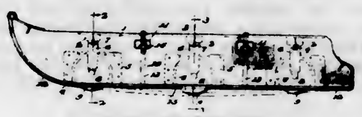
extended to project between the longitudinal edges of two adjacent sectors to be held between them for support when the drum is assembled, substantially as described.

1,422,040. TRAILER-STEERING DEVICE. REUBEN H. DE LAUNTY, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,725. 10 Claims. (Cl. 280—33.5.)



1. In a trailer steering device, in combination, a truck having an arcuate extension at its rear end, a trailer having steerable wheels, and means slidably engaging said arcuate extension operative upon lateral change of angular relation between the truck and trailer for steering said wheels.

1,422,041. VEHICLE SLED. THOMAS W. DINNING and EARL H. CLYMER, Renton, Wash. Filed Feb. 23, 1921. Serial No. 447,344. 5 Claims. (Cl. 280—9.)



4. A wheel vehicle and sled comprising a body having side members, wheels mounted in the side members and extending below the lower edge of the side members, runners having their ends secured to the edge of the said side members, standards secured to the runners and extending through the bores formed in the side members, and means engaging the standards to project the runners below the plane of the lower peripheries of the wheels.

1,422,042. GAME BOARD. JOHN R. DONNELLY, Fairfield, Me. Filed Apr. 30, 1921. Serial No. 465,785. 1 Claim. (Cl. 46—41.)

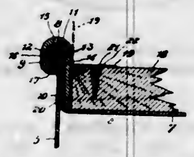
A ouija board comprising a board proper having a circular groove, a rotary finger engaging member arranged centrally of said board and having an annular groove on the under side thereof, ball bearings arranged in said grooves, letters of the alphabet arranged upon

the board proper and in concentric relation to said rotary member, numerals arranged adjacent said letters in a similar relation, other indicia arranged upon said board,



and a pointer projecting from the periphery of the rotary member and cooperating with all the indicia upon said board for the purpose specified.

1,422,043. REMOVABLE FALSE HEAD FOR METALLIC CONTAINERS. CHARLES T. DRAPER, Cleveland, Ohio, assignor to The Draper Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 15, 1920. Serial No. 365,722. 8 Claims. (Cl. 220—67.)



1. A sheet metal container having a recessed metallic head, a reinforcing hoop or ring entering said recessed head, a wooden false head removably positioned within the recessed head, and means connected with said hoop for removably retaining the false head in position.

1,422,044. MOUNT FOR ARTIFICIAL TEETH. HERBERT A. EDWARDS, London, England. Filed June 23, 1921. Serial No. 479,894. 2 Claims. (Cl. 211—34.)



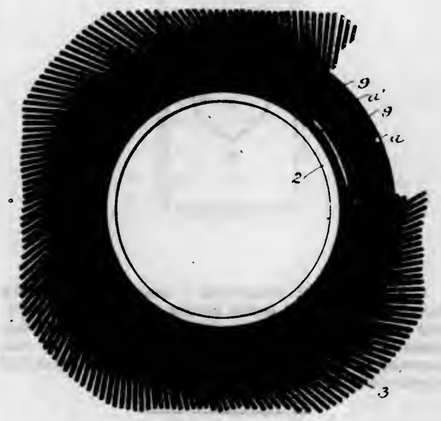
1. A mount for artificial teeth comprising a support, a series of sectional mount strips carried on said support having recesses therein longitudinally of each strip, said recesses being filled with a plastic material to receive the artificial teeth and said strips being partially severed by a weakening therebetween to allow of each of the latter being removed from the series of strips as required.

1,422,045. LOCK-SEALED ENVELOPE. MICHAEL H. FLAHERTY, Philadelphia, Pa. Filed May 26, 1920. Serial No. 384,389. 2 Claims. (Cl. 229—82.)



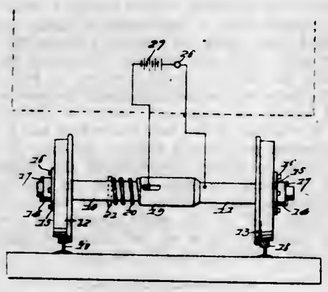
1. An envelope having a slot through a wall thereof, a sealing member for a closure flap of the envelope insertable through said slot and containing an application of adhesive for disposition within the envelope, said sealing member having a slot therethrough to remain exposed and unobstructed exteriorly of the envelope when the latter is closed to facilitate application of a moistening means therethrough to said adhesive.

1,422,046. METHOD OF FORMING TIRES. WILLIAM G. FORDING, Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 30, 1916. Serial No. 106,759. 36 Claims. (Cl. 154—14.)



1. The method of making a tire carcass which comprises passing a circumferential series of separately supplied strands back and forth from one side of a tire-forming support to the other so as to form a plurality of successive layers.

1,422,047. RAILWAY-TRACK INDICATOR. FRANK GARAGNANI, Herrin, Ill. Filed July 14, 1921. Serial No. 484,661. 3 Claims. (Cl. 246—121.)



1. An apparatus for the purpose described having relatively movable axle members carrying rail traversing wheels and a signalling device having inside and outside contacts of which the elements are movable respectively by said axle members and are included in circuit with a

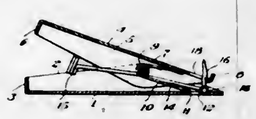
signalling unit and a source of electrical energy, said contacts being housed in a sleeve arranged in telescoping relation with the axle members.

1,422,048. HINGE JOINT. GILBERT W. GOODRIDGE, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 6, 1921. Serial No. 520,242. 4 Claims. (Cl. 16—128.)



1. A hinge joint comprising a plate, a door struck therefrom, and hinge means uniting said door and plate, said hinge means comprising integral lugs on one of said members and cooperating recesses in the other of said members in which said lugs are received and journalled substantially in the plane of the plate.

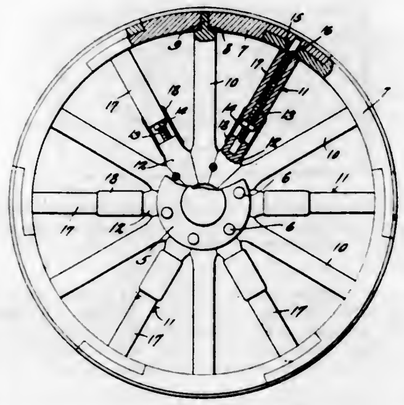
1,422,049. TRAP. GEORGE M. GOULD, Madison, S. Dak. Filed Nov. 26, 1921. Serial No. 517,991. 1 Claim. (Cl. 43—82.)



A mouse trap including a base having a flanged outer end and flanged sides, a jaw having a flanged outer end and flanged sides which are received between the sides of the base and which are pivoted thereto, spring means influencing the jaw to closed position, a wire member having its outer end coiled upon itself to provide a bait box and having an angle end which is journaled in a bearing at the rear of the base and which has a notched angle extension providing a trigger, the body of the jaw having a slot to receive therethrough the trigger when the jaw is swung to open position on the base and when turned to one position, incident to the weighted bait holding end of the wire member to swing the latter to cause the notch of the trigger to engage with the said wall of the opening in the jaw.

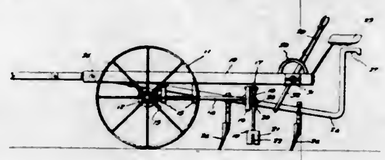
1,422,050. AUTOMOBILE WHEEL. DAVID S. GREENBERG, Warren Point, N. J. Filed Jan. 16, 1922. Serial No. 529,654. 3 Claims. (Cl. 301—67.)

1. In a wheel, a sectional felloe, the adjacent sections of the felloe overlapping, a hub including plates, spoke members having connection with the sections at points intermediate their ends, and adjustable spokes disposed between the first mentioned spoke members and having connection with the sections of the felloe for securing



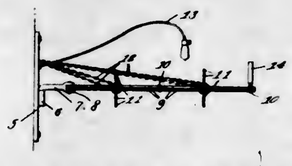
the sections together, and the inner ends of said spoke members being positioned between the plates of the hub.

1,422,051. COTTON CHOPPER. FURNEY C. HALL, Hartsfield, Ga. Filed June 21, 1921. Serial No. 479,270. 4 Claims. (Cl. 97—45.)



1. A machine of the character described comprising a frame, ground wheels journaled on said frame, a hoe mounted for oscillatory movement, means actuated by one of the ground wheels for controlling the movements of said hoe, cultivator beams pivoted at the forward end of the machine and arranged in spaced parallel relation, the opposite ends of the beams being extended to provide handles whereby the beams can be conveniently raised or lowered, and means including a lever whereby the said beams can be adjusted simultaneously and held in any given position for the purpose specified.

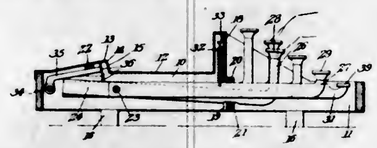
1,422,052. WALL ATTACHMENT. HARRY C. HANSON, Minneapolis, Minn. Filed Jan. 7, 1921. Serial No. 435,678. 1 Claim. (Cl. 45—13.)



In a device of the character described, a base having a tubular portion formed integral therewith, a supporting arm, having a right-angled extremity, adjustably supported within the tubular portion, a body portion including bars pivotally connected at their ends, hooks

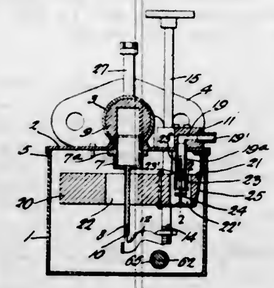
secured to the bars, suporting chains having connection with the bars, and said supporting chains having their inner ends connected to the base to secure the body portion in a horizontal position.

1,422,053. TYPEWRITING-INSTRUCTION MACHINE. OSCAR J. HANSON, Fargo, N. Dak. Filed Nov. 22, 1920. Serial No. 425,780. 1 Claim. (Cl. 35—16.)



A device of the character described comprising a casing having an upwardly extending channel shaped forward portion and an upwardly offset rear portion having an inclined front wall formed with a longitudinal slot, a frame below the casing, a plurality of type bars pivoted at their rear ends within the frame, a plurality of levers pivoted within the frame and having their rear ends engaging said type bars and their forward ends provided with keys, and springs connected with said levers and disposed within the channel shaped front portion of the casing, depression of a lever resulting in upward movement of the type bar associated therewith whereby the type will be visible through said slot.

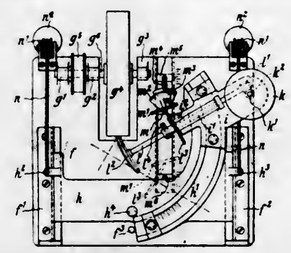
1,422,054. CARBURETOR. WILLIAM A. HEIDE, Detroit, Mich. Filed June 26, 1917. Serial No. 177,087. 2 Claims. (Cl. 137—104.)



2. In a carburetor a fuel reservoir, a float mounted therein, a fuel conduit extending within the reservoir and disposed above the float, a pin extending upwardly from the float, a valve loosely mounted upon the pin and adapted to seat in the fuel conduit to close the same, and a U-shaped member mounted upon the pin and provided with inturned ends adapted to engage the valve to disengage the same from the fuel pipe upon the descent of the float.

1,422,055. MACHINE FOR GRINDING BEVELED RIM SURFACES ON SPECTACLE GLASSES. OTTO HENKER, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Aug. 8, 1918. Serial No. 249,032. 5 Claims. (Cl. 51—101.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a machine for grinding beveled rim surfaces on spectacle-glasses a grindstone, a shaft rotatably disposed in a body and adapted to hold a spectacle-glass, guiding means allowing to displace during the grinding operation the grindstone and the shaft relatively to one another, these guiding means forming with the said shaft an angle which differs from 90°, and a cam coacting with a stop



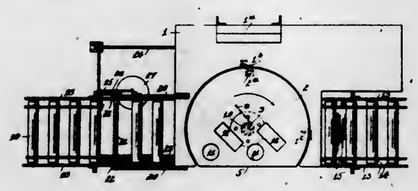
for limiting the relative displacement of the grindstone and the shaft, the angle contained by said stop and said guiding means being variable.

1,422,056. WINDOW-SHADE FIXTURE. GEORGE B. HOLLAND, Naugatuck, Conn. Filed July 25, 1921. Serial No. 487,493. 5 Claims. (Cl. 156—24.)



5. In a sheet metal bracket for window fixtures, an arm for supporting a tubular overdrapery-rod, said arm having an opening for receiving the end of a curtain rod and an integral tapered portion beyond said opening adapted to fit into said tubular overdrapery-rod.

1,422,057. APPARATUS FOR CASING CANS. CHARLES L. HOOPER, Rochester, N. Y., assignor to Vacuum Oil Company, New York, N. Y., a Corporation of New York. Filed Apr. 19, 1920. Serial No. 374,925. 8 Claims. (Cl. 198—19.)



1. An apparatus used in casing cans comprising a table adapted to swing back and forth, a conveyor leading to the table, a fulcrum piece arranged adjacent to the delivery end of the table for facilitating the inversion of the cans on the table from their positions on the conveyor, means on the table cooperating with the tops of the cans for positioning a plurality of cans in abutment with each other, a conveyor leading from the table in line with the conveyor leading to the table, means for limiting the swinging movement of the table in both directions, means at the end of the receiving conveyor on which the encased cans are tilted from the table said means being movable for shifting the encased cans to an inverted position from that which they occupied on the table, and controlling means for the shifting means operable by an operative situated in front of the table.

1,422,058. TOOL HOLDER. VALENT HOVANEC, Ambridge, Pa. Filed Nov. 5, 1921. Serial No. 513,155. 2 Claims. (Cl. 279—77.)



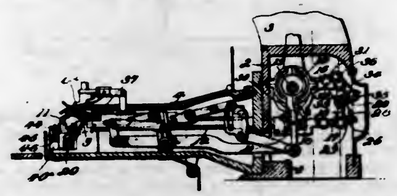
1. A plurality of socketed tool holders of different sizes nested together, and means operable to lock a tool within the smaller tool holder and engageable by the next larger tool holder for preventing separation of the tool and the first named holder until said holders are separated, means carried by the larger tool holder to engage the smaller tool holder for retaining said tool holders nested and adapted to engage and retain a larger tool, said larger tool holder having a shank on one end thereof, and a further intermediate sized socketed tool holder adapted for snug reception of said shank, said last named tool holder being provided with means engageable with said snank to retain the latter within the socket thereof and to engage an intermediate sized tool for retaining the latter in said socket thereof.

1,422,059. LAMP EXTINGUISHER. TRAVIS H. B. HOWARD, Como, Miss. Filed Apr. 27, 1920. Serial No. 376,934. 1 Claim. (Cl. 67—73.)



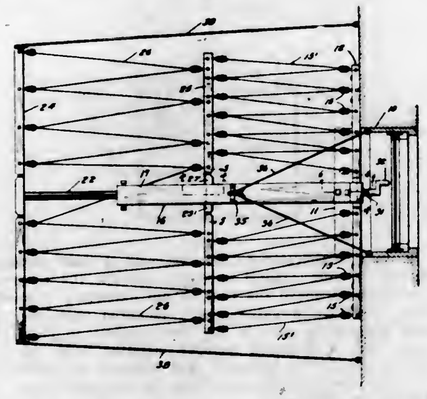
An extinguisher for a lamp of the wick type, in combination with the wick tube having an outwardly offset portion providing a recess in communication with the wick space of the tube, said portion having side walls, a squeese plate completely disposed in said recess, rod portions extending from said plate above its horizontal center and journalled in said side walls so that the plate will of itself normally hang vertically and will seek the vertical after operation whereby movement of the wick in either direction is unaffected by its presence, and one of said rod portions extending beyond the adjacent side wall for finger manipulation to move the plate into squeezing relation with the wick.

1,422,060. LOOPER MECHANISM FOR SEWING MACHINES. ROBERT R. HUGHES, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 17, 1919, Serial No. 331,312. Divided and this application filed June 16, 1920. Serial No. 389,328. 11 Claims. (Cl. 112—200.)



1. In a sewing machine, a looper, means for supporting said looper whereby the same moves in a line substantially parallel with the line of feed and in a direction opposed to the feed as it enters the needle thread loop, means for moving the looper laterally, and means for oscillating said looper including an eccentric, a lever mounted on a swinging fulcrum and connected to said eccentric, and devices operated by said lever and connected to said looper for giving said looper an extended dwell at each end of its stroke and during the lateral movement thereof.

1,422,061. CLOTHES DRIER. WILLIAM C. HUGHES, New Haven, Conn. Filed Dec. 18, 1920. Serial No. 431,650. 7 Claims. (Cl. 68—34.)

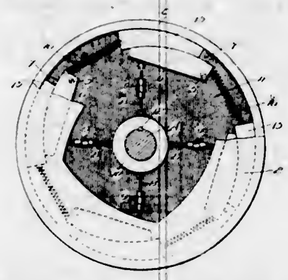


7. A clothes drier comprising a supporting bar adapted to be secured to a stationary support, a supporting frame mounted on said supporting bar, an adjustable drying frame mounted on said supporting frame, connections between said drying frame and said supporting bar, and means to adjust said drying frame on said supporting frame.

1,422,062. SELF-ADJUSTING CLUTCH. ARTHUR H. HUNT, Virgil, Kans. Filed Dec. 15, 1919. Serial No. 345,101. 8 Claims. (Cl. 192—37.)

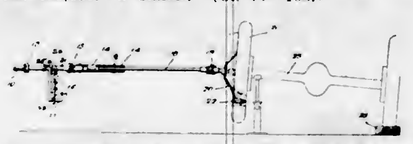
1. In a friction clutch, the combination with a drive element and a driven element having a plate thereon, of

a sleeve slidably mounted for rotation with the drive element, wedge shaped shoes movably mounted between the drive element and driven element, pivoted wedges connected with the sleeve for engaging the shoes to transmit power from the drive to the driven element, the engaging faces of said shoes and wedges being tapered in



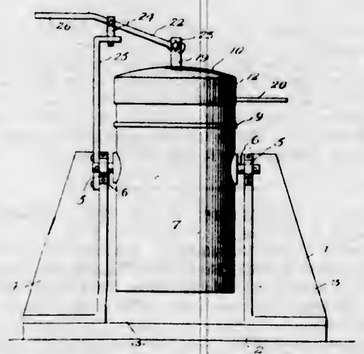
opposite directions, a screw adjusting rod between the sleeve and each wedge and pivoted at opposite ends to said sleeve and wedge respectively to form a thrust rod connection for adjusting the degree of contact between the wedges and shoes, and said plate on the driven element adapted to retain the shoes in position and prevent accumulation of dust thereon.

1,422,063. MOTOR-STARTING DEVICE. JOHN OTTO Q. JOHNSON, Modesto, Calif. Filed July 9, 1921. Serial No. 483,487. 2 Claims. (Cl. 74—106.)



1. A device for imparting movement from a rotary element to a crank, comprising a plurality of relatively adjustable elements for connection with the crank, one of said elements last named including a fork and a curved member passing around the bend of the crank, and having formed therein an angular opening for receiving the end of said rotary element.

1,422,064. SANITARY GARBAGE CAN. PATRICK KANE, Chicago, Ill. Filed May 2, 1921. Serial No. 466,179. 2 Claims. (Cl. 220—36.)



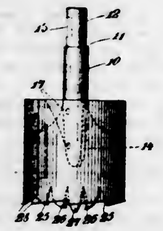
2. In a device as set forth, a rockably mounted receptacle, a removable cover thereon, said cover comprising a shell, a stationary perforated disc carried by said shell and forming a bottom therefor, a rod connected to said stationary disc, a removable perforated disc rotatable on said rod to dispense a disinfectant into said receptacle, and a hand lever pivotally connected to said rod and mounted for pivotal movement by horizontal and vertical axes.

1,422,065. VULCANIZING APPARATUS. WILLIAM R. URQUHART, Los Angeles, Calif., and CLIFFORD W. POST, Akron, DWIGHT E. HUMPHREY, Cuyahoga Falls, and CLARENCE C. VAN ARSDALE, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 18, 1920. Serial No. 417,755. 35 Claims. (Cl. 18—4.)



1. An apparatus for treating rubber articles comprising, an oven, means for successively and continuously moving tire casings through the oven, and means for repeatedly circulating the same air through the oven.

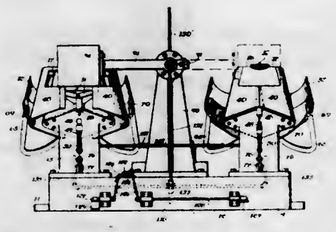
1,422,066. FRUIT CUTTING AND CORING DEVICE. GEORGE VAFIADES and JOHN KOUKOS, New York, N. Y. Filed June 27, 1921. Serial No. 480,637. 8 Claims. (Cl. 146—6.)



1. A fruit corer, comprising outer and inner toothed coring members having cutting edges deflected beyond the contours of said members.

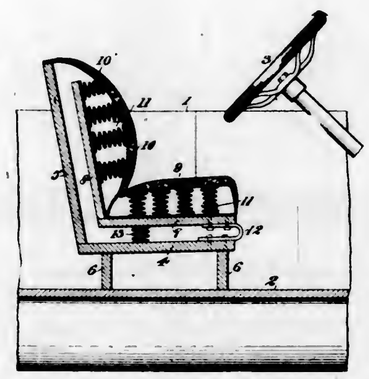
REISSUES.

15,395. SHIRT BOSOM AND BODY MACHINE. CECIL H. BOYCLS, Louisville, Ky. Filed Nov. 19, 1921. Serial No. 516,486. Original No. 1,357,218, dated Nov. 2, 1920, Serial No. 380,488, filed May 11, 1920. 18 Claims. (Cl. 68—9.)



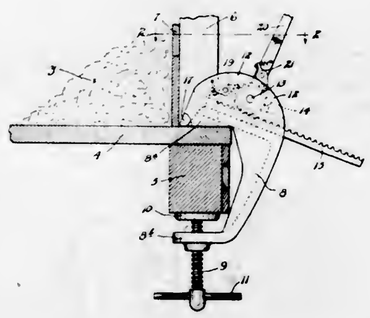
12. In a garment former device, a heat storing body and a stretcher member heated by and movable to and from the body.

15,396. AUTOMOBILE SEAT. JAMES H. MCCOLLOUGH, Jr., San Jose, Calif. Filed Sept. 27, 1921. Serial No. 503,616. Original No. 1,379,270, dated May 24, 1921, Serial No. 362,508, filed Mar. 1, 1920. 6 Claims. (Cl. 155—55.)



4. An automobile seat comprising a fixed bottom and back; a rigid L-shaped seat frame nested in and spaced from the fixed bottom and back; a connection between the bottom of the seat frame and the fixed bottom adapting the seat frame for oscillation about a horizontal axis; means for limiting the extent of said oscillation; a seat cushion carried by the bottom of the seat-frame, and a back cushion having its covering extending from the lower part of the back to the seat-frame over the top thereof and secured to the fixed back.

15,397. GRAIN-DOOR-FORCING DEVICE. WILLIAM H. MCGANS, Minneapolis, Minn. Filed June 1, 1922. Serial No. 565,565. Original No. 1,400,447, dated Dec. 13, 1921, Serial No. 407,052, filed Aug. 30, 1920. Reissue No. 15,306, dated Mar. 14, 1922, Serial No. 535,229, filed Feb. 6, 1922. 7 Claims. (Cl. 254—84.)



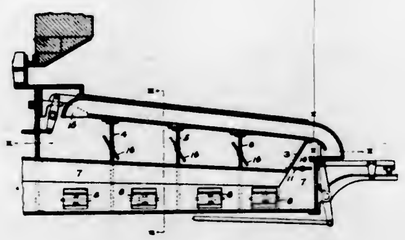
1. A grain door forcing device comprising a clamp having means for rigidly securing the same to a side sill and floor structure of a box car with its upper portion exposed in the door opening, a thrust plunger mounted on the upper portion of said clamp for movement therethrough against a grain door applied in the door opening, and a manually operated power multiplying device applied to said clamp and operative on said plunger to force the same against a grain door.

15,398. CLOCK. WILLIAM O'LEARY, Belvedere College, Dublin, Ireland. Filed Apr. 15, 1922. Serial No. 553,220. Original No. 1,365,537, dated Jan. 11, 1921, Serial No. 276,149, filed Feb. 10, 1919. 18 Claims. (Cl. 58—124.)



13. An automatic regulating mechanism for clocks, comprising in combination with an oscillating member of a time piece, a device for imparting periodic impulses to said oscillating member, an independent time mechanism, and devices for releasing and resetting the said impulse device at predetermined periods by the said independent clock mechanism.

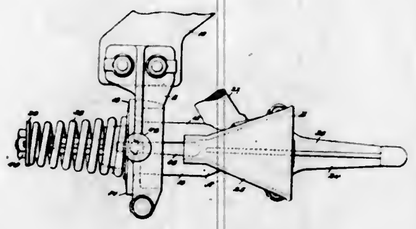
15,399. FURNACE. THOMAS A. PEEBLES, Pittsburgh, Pa. Filed Dec. 14, 1921. Serial No. 522,403. Original No. 1,338,694, dated May 4, 1920, Serial No. 218,246, filed Feb. 20, 1918. 17 Claims. (Cl. 110—74.)



1. In a furnace the combination of spaced fuel supporting members, a plurality of chambers arranged transverse of and below the fuel supports and adapted to supply air to different portions of the bed of fuel on said supporting members, means for feeding heated air to the chamber underlying the portions of the fuel supporting members on which initial combustion occurs and means for supplying air to the other chambers.

15,400. AUTOMATIC TRAIN-PIPE CONNECTOR. JOSEPH V. ROBINSON, Morristown, N. J. Filed Mar. 5, 1921. Serial No. 450,063. Original No. 1,245,784, dated Nov. 6, 1917, Serial No. 781,194, filed July 25, 1913. Reissue No. 14,873, dated June 1, 1920, Serial No. 334,880, filed Oct. 31, 1919. 46 Claims. (Cl. 285—58.)

1. In an automatic train pipe coupling, the combination of a coupling head having an opening therethrough, a base, a member pivotally mounted on the base and carrying at one end a laterally extending tubular conduit which extends through the opening in said head and terminates approximately in the plane of the coupling face of the latter, said conduit being mounted directly upon said member, means for securing the conduit to the

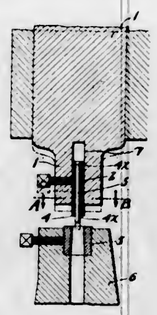


member, a projection near the other end of said member, and means for normally maintaining said projection in engagement with said base to yieldingly support said coupling head.

15,401. METHOD OF MAKING ROADS. LEONARD SCHADE VAN WESTRUM, Zurich, Switzerland. Filed May 20, 1921. Serial No. 471,260. Original No. 956,009, dated Apr. 26, 1910, Serial No. 489,662, filed Apr. 13, 1909. 4 Claims. (Cl. 94—23.)

1. The method of building roads which consists in mixing with the materials constituting the mineral aggregate in their natural condition an asphaltic cement whose base is hard bitumen in excess over fluxes and chemicals, and emulsified with an agent whose basis is water, and in spreading and compacting the mixture on a suitable foundation.

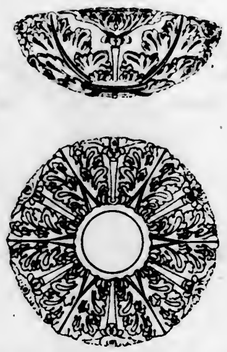
15,402. STAMPING MACHINE FOR CUTTING OUT ARTICLES FROM SHEET METAL. THOMAS HENRY WILSON, Bramley, Leeds, England. Filed June 4, 1921. Serial No. 475,174. Original No. 1,320,189, dated Oct. 28, 1919, Serial No. 300,381, filed May 28, 1919. 11 Claims. (Cl. 164—86.)



1. In a stamping machine for cutting out articles in the flat from sheet metal plates, the combination with a vertically reciprocating slide and a circular die, of a tubular punch or cutting tool carried by said vertically reciprocating slide, and a central pin depending below the base of the said tubular punch or cutting tool and being adapted to work in conjunction with the said circular die of the machine.

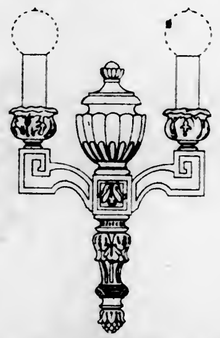
DESIGNS.

61,146. PRINCIPAL CENTRAL BODY OF A LIGHTING FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Sept. 3, 1921. Serial No. 498,548. Term of patent 14 years.



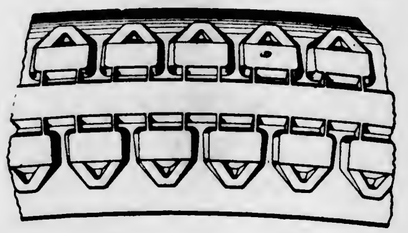
The ornamental design for the principal central body of a lighting fixture, as shown.

61,147. LIGHTING FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Sept. 3, 1921. Serial No. 498,557. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

61,148. PNEUMATIC-TIRE TREAD. HARRY S. BERLIN, Springfield, Ohio, assignor to The Victor Rubber Company, Springfield, Ohio, a Corporation of Ohio. Filed Oct. 8, 1921. Serial No. 506,526. Term of patent 14 years.



The ornamental design for a pneumatic tire tread, as shown.

61,149. TOY SHACKLE. JOSEPH EDMUND BLAKE, Gardner, Mass. Filed Jan. 9, 1922. Serial No. 123. Term of patent 3½ years.



The ornamental design for a toy shackle as shown.

61,150. SOLID-RUBBER TIRE FOR VEHICLES. HENRY H. BOUCHER, Los Angeles, Calif. Filed May 2, 1921. Serial No. 466,207. Term of patent 14 years.





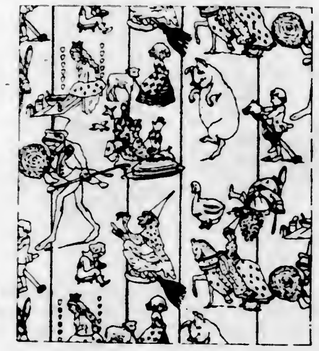
The ornamental design for a solid rubber tire for vehicles, as shown.

61,151. EMBLEM, BADGE, OR BUTTON. ARTHUR E. CHASE, Toledo, Ohio, assignor to Grand Council of The Ladies' Oriental Shrine of North America, Wheeling, W. Va., an Association. Filed Mar. 4, 1922. Serial No. 1,046. Term of patent 14 years.



The ornamental design for an emblem, badge, or button, as shown.

61,152. TEXTILE FABRIC. WILLIAM DOWLING, New York, N. Y., assignor to Golding Bros. Company, New York, N. Y., a Corporation of New York. Filed Jan. 10, 1922. Serial No. 158. Term of patent 7 years.



The ornamental design for a textile fabric, as shown.

61,153. DOLL PINCUSHION. MINNIE M. FARRELL, Kansas City, Mo. Filed Jan. 11, 1922. Serial No. 161. Term of patent 7 years.



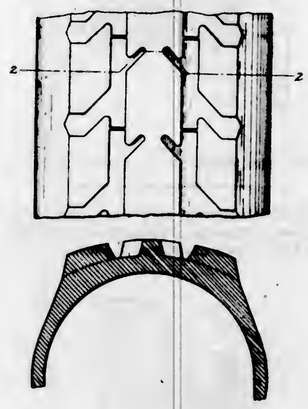
The ornamental design for a doll pincushion, as shown.

61,154. WHIRLIGIG TOY. HELEN M. FLETCHER, San Francisco, Calif. Filed Dec. 21, 1921. Serial No. 524,023. Term of patent 3½ years.



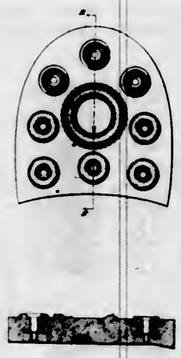
The ornamental design for a whirligig toy, as shown.

61,155. TIRE. ARTHUR A. FRANK, Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed July 6, 1921. Serial No. 482,849. Term of patent 14 years.



The ornamental design for a tire substantially as shown.

61,156. SHOE HEEL. DUDLEY FREEMAN, Roxbury, Mass., assignor to Panther Rubber Manufacturing Company, Stoughton, Mass., a Corporation of Massachusetts. Filed Mar. 11, 1922. Serial No. 1,130. Term of patent 14 years.



The ornamental design for a shoe heel as shown.

61,157. SOLE OR TAP. DUDLEY FREEMAN, Roxbury, Mass., assignor to Panther Rubber Manufacturing Company, Stoughton, Mass., a Corporation of Massachusetts. Filed Mar. 11, 1922. Serial No. 1,131. Term of patent 14 years.



The ornamental design for a sole or tap as shown.

61,158. DOLL. AGNES P. HANDLEY, Oakland, Calif. Filed Feb. 15, 1922. Serial No. 707. Term of patent 14 years.



The ornamental design for a doll, as shown.

61,159. DOLL. JAMES A. HAYES, New York, N. Y. Filed Mar. 21, 1922. Serial No. 1,318. Term of patent 7 years.



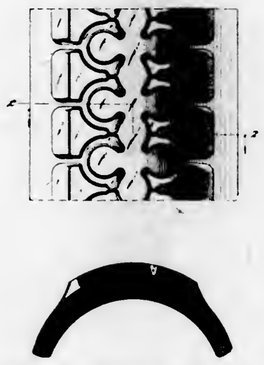
The ornamental design for a doll substantially as shown.

61,160. DOLL. JAMES A. HAYES, New York, N. Y. Filed Apr. 1, 1922. Serial No. 1,490. Term of patent 3½ years.



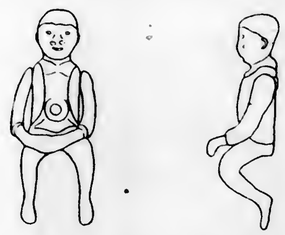
The ornamental design for a doll as shown.

61,161. TIRE. WILLIAM F. HOELZER, New Brunswick, and JOHN T. JOHNSON, Plainfield, N. J. Filed Oct. 19, 1921. Serial No. 508,879. Term of patent 14 years.



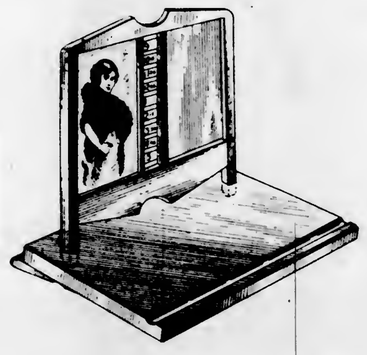
The ornamental design for a tire, as shown.

61,162. BROOMHOLDER. FRANCIS G. HOWE, Melrose, Mass. Filed July 1, 1921. Serial No. 481,953. Term of patent 14 years.



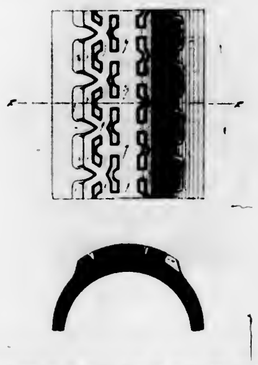
The ornamental design for a broom holder, as shown.

61,163. MEMORANDUM STAND. SIMON JAFFE, Montreal, Quebec, Canada. Filed Nov. 28, 1921. Serial No. 518,455. Term of patent 7 years.



The ornamental design for a memorandum stand, as shown.

61,164. TIRE. JOHN T. JOHNSON, Plainfield, N. J., assignor to Otto J. Kuhlke, Akron, Ohio. Filed Oct. 19, 1921. Serial No. 508,880. Term of patent 14 years.



The ornamental design for a tire, as shown.

61,165. SAFETY PAPER. CHARLES KRES, Cleveland, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 11, 1921. Serial No. 444,300. Term of patent 14 years.



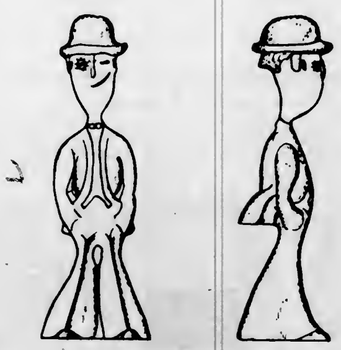
The ornamental design for safety paper surface, as shown.

61,166. SAFETY PAPER. CHARLES KRES, Cleveland, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,334. Term of patent 3½ years.



The ornamental design for safety paper surface, as shown.

61,167. DOLL OR STATUETTE. ALEXANDER W. KURFISS, Kansas City, Mo., assignor to John W. Mashburn, Kansas City, Mo. Filed Mar. 27, 1922. Serial No. 1,399. Term of patent 3½ years.



The ornamental design for a doll or statuette, as shown.

61,168. SWIVEL CONFECTION RACK. JOSEPH LAZERUS, Philadelphia, Pa. Filed July 2, 1921. Serial No. 482,221. Term of patent 7 years.



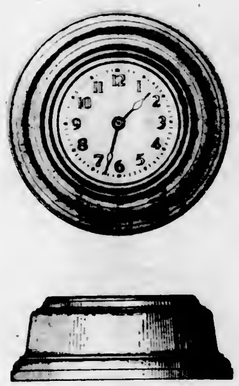
The ornamental design for a swivel confection rack, as shown.

61,169. VASE. ALLEN A. LYON, Belvidere, Ill. Filed July 9, 1921. Serial No. 483,572. Term of patent 7 years.



The ornamental design for a vase, as shown.

61,170. CLOCK CASE. LEWIS E. MACOMBER, New York, N. Y., assignor to Seth Thomas Clock Co., Thomaston, Conn., a Corporation. Filed Feb. 13, 1922. Serial No. 672. Term of patent 7 years.



The ornamental design for a clock case as shown.

61,171. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Mar. 2, 1922. Serial No. 974. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

61,172. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Mar. 2, 1922. Serial No. 976. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

61,173. SAFETY PAPER. FRANK MEYER, Lakewood, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,318. Term of patent 3½ years.



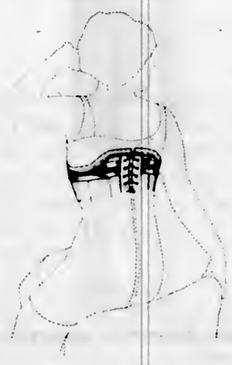
The ornamental design for safety paper, as shown.

61,174. SAFETY PAPER. FRANK MEYER, Lakewood, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,319. Term of patent 3½ years.



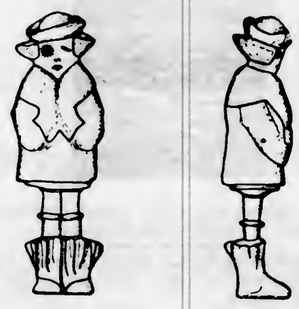
The ornamental design for safety paper, as shown.

61,175. CORSET. GERTRUDE L. NICKERSON, Bridgeport, Conn., assignor to The Warner Brothers Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 5, 1922. Serial No. 1,557. Term of patent 14 years.



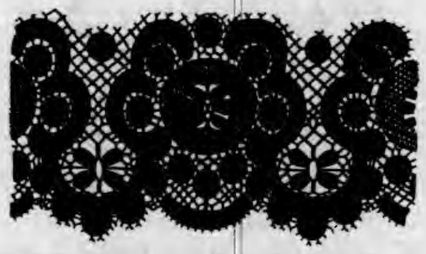
The ornamental design for a corset, as shown and described.

61,176. DOLL OR STATUETTE. GEORGE W. SISK, Kansas City, Mo., assignor to John W. Mashburn, Kansas City, Mo. Filed Mar. 27, 1922. Serial No. 1,411. Term of patent 3½ years.



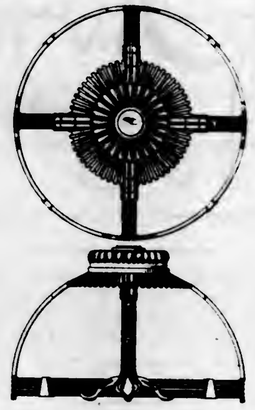
The ornamental design for a doll or statuette, as shown.

61,177. LACE. THOMAS H. SMEDLEY, Long Eaton, England, assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed Nov. 18, 1921. Serial No. 516,221. Term of patent 3½ years.



The ornamental design for lace, as shown.

61,178. ART METAL SHADE FRAME. ADOLF STEFFEN, Pittsburgh, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 18, 1921. Serial No. 470,614. Term of patent 7 years.



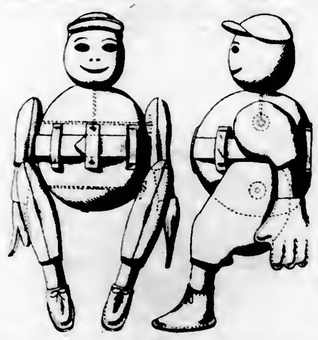
The ornamental design for an art metal shade frame, as shown.

61,179. DOLL. WILLIAM B. VAN VALIN, Los Angeles, Calif. Filed Feb. 10, 1922. Serial No. 635. Term of patent 14 years.



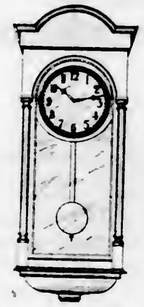
The ornamental design for a doll, as shown.

61,180. BASEBALL-PLAYER DOLL. WILLIAM B. VAN VALIN, Los Angeles, Calif. Filed Mar. 27, 1922. Serial No. 1,412. Term of patent 14 years.



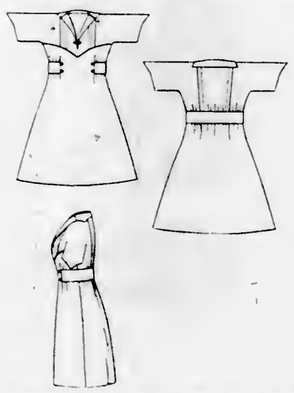
The ornamental design for a baseball player doll, as shown.

61,181. CLOCK CASE. FREDERICK A. WEIDMAN, Thomaston, Conn., assignor to Seth Thomas Clock Co., Thomaston, Conn., a Corporation. Filed Feb. 13, 1922. Serial No. 682. Term of patent 7 years.



The ornamental design for a clock case as shown.

61,182. DRESS APRON. MAY WHITE, Newport Beach, Calif. Filed Apr. 11, 1922. Serial No. 1,689. Term of patent 7 years.



The ornamental design for a dress apron as shown.

61,183. PHONOGRAPH CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed Nov. 5, 1920. Serial No. 422,052. Term of patent 7 years.



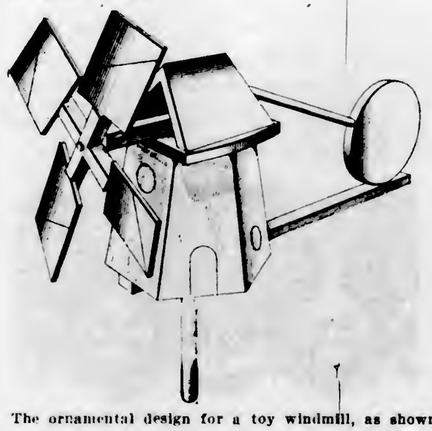
The ornamental design for a phonograph cabinet, substantially as shown.

61,184. LEATHER, WALL PAPER, OR SIMILAR ARTICLE OF MANUFACTURE. HENRY G. WURM, Yonkers, N. Y. Filed Jan. 6, 1922. Serial No. 66. Term of patent 7 years.



The ornamental design for leather, wall paper, or similar article of manufacture, as shown.

61,185. TOY WINDMILL. STELLA A. GILL, Chatham, Mass. Filed Nov. 30, 1921. Serial No. 519,005. Term of patent 7 years.



The ornamental design for a toy windmill, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 4, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 106,453. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE MINNESOTA STOVE COMPANY, Minneapolis, Minn. Filed Sept. 26, 1917.

SANICO

Particular description of goods.—Wood, Coal, Gas, Oil, and Vapor Stoves, Ranges, and Furnaces.

Claims use since on or about May 1, 1917.

Ser. No. 111,634. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1918.

Western Electric

Particular description of goods.—Electric Apparatus and Material—Namely, Electric Signal or Alarm Boxes, Electric Door Openers, Electric Sewing Machines, Switchboards, Distributing Rings and Frames, Apparatus Blanks for Switchboards, Designation Strips for Switchboards, Apparatus Spaces for Switchboards, Trouble Caps for Switchboards, Plug Cut-Outs, Electric Pumps, Wall Plates for Switches and Electrical Appliances, Battery Lamps and Lanterns, Insulating Fabric for Wire and Cables, Burglar Alarms, Insulating Compounds for Wires and Cables, Panel Boards, Conduits and Fittings, Electrical Cords, Cord Tips, Attachment Plugs, Telephone Plugs and Plug Sets, Sockets, Electrical Receptacles to Receive Attachment Plugs, Fuse Blocks and Posts, Gongs and Gong Mountings, Electric Battery Connectors and Cabinets for Electric Batteries, Telephone and Telegraph Apparatus, Insulators, Fanning Strips, Ground Strips, Telephone Hand Sets and Hand-Set Hangers, Hand Wheels, Mounting Plates for Electric Apparatus, Binding Posts, Connection Blocks, Cable Terminals, Cable Boxes, Terminal-Punchings and Strips, Metal Trolley Poles, Charging Machines, Ringing Machines, Hickeys, Duct Rods, Electric Power Switches, Splicing Compound, Bell-Ringing Transformers, Electric Hammers, Insulating Compound, Electric Power and Light Outfits, Electric Vacuum Tubes, Wireless Systems, Electric Utility Motors, Telephone Sets for Automobiles, Telephone Sets for Churches, Circuit Breakers, Insulating Joints, Outlet Boxes, Christmas-Tree Lighting Outfits, Electric Smoothing Irons, Holders for Shades for Electric Lamps, Electric Drops, Electric Ranges, Electric Dishwashers, Printing-Telegraph Apparatus, Electric Train-Dispatching Systems, Condensers, Desk-Set Boxes, Flashing Recall Outfits, Desk Stands, Desk Sets, Subscribers' Sets, Backboards for Subscriber Sets, Telephone Coin Collectors, Heat Coils, Howlers, Induction Coils, Repeating Coils, Retardation Coils, Resistances, Interrupters, Jacks, Jack Boxes, Jack Fasteners, Jack Markers, Switchboard Keys, Key Caps, Key Indicators, Key Levers, Key Units, Lightning Arresters, Protectors, Listening Sticks, Protector Blocks, Protector Micas, Line Connectors, Line Poles, Telephone Receivers, Telephone Transmitters, Telephone Transmitter Arms and Brackets, Telephone Transmitter Attachments, Relays, Telephone and Telegraph Relays, Telephone-Relay Covers, Resonators for Telegraph Sounders, Ringers, Signals, Telegraph Sounders, Switch Tools for Telephone Subscriber Sets, Tape for Breast Transmitters, Telegraph Keys, Telegraph Sets, Autotransformers, Artificial Lines, Attenuation Equalizers, Audions, Binaural Sets, Fuse Boards, Power Boards, Alarm Cabinets, Supervisors' Cabinets, Number-Plate Cabinets, Carrier Telephone Apparatus and Systems, Carrier Telegraph Apparatus and Systems, Carrier Current Repeaters, Carrier Panels, Loading Coils, Loading Cases and Pots, Pot-Head Compound, Deaf Sets, Electron-Discharge Devices, Electron-Discharge-Device Sockets, Electric Wave Filters, Mechanical Repeaters, Mechanical-Repeater Sockets, Milking Machines, Cream Separators, Electrical Networks, Rectifiers, Telephone Repeaters, Telegraph Repeaters, Train-Dispatching Selectors, Impulse Senders, Signaling Sets, Submarine Signaling Systems, Submarine Signaling Detectors, Submarine Signaling Compensators, Manual Telephone Systems, Automatic Telephone Systems, Semiautomatic Telephone Systems, Automatic Telephone Apparatus, Semiautomatic Telephone Apparatus, Loud-Speaking Telephone Systems and Apparatus, Thermocouples, Vacuum-Tube Input and Output Transformers, Vacuum-Tube Oscillation Generators, Vacuum-Tube Oscillators, Vacuum Pumps, Electrical Water Systems, Insulating Paints and Varnishes, Automobile Heaters, Automobile Timers, Curling-Iron Heaters.

Claims use since January, 1910.

Ser. No. 111,635. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1918.

Western Electric

Particular description of goods.—Cord Fasteners, Cord Hooks, Cord Pulleys, Cord Weights for Switchboards, Key Shelf Braces, Window Springs, Number Plates,

Expansion Shields and Toggle Bolts; Anchoring Appliances for Telephone and Telegraph Lines—Namely, Screw Anchors, Guy Anchors, Insulated Staples and Nails, and Milonite Nails.

Claims use since January, 1910.

Ser. No. 123,631. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DODGE SALES & ENGINEERING CO., Mishawaka, Ind. Filed Oct. 10, 1919.

KEYSTONE

Trade-mark consists of the word "Keystone" in letters whose tops are inclined slightly to right, initial letter "K" being larger and the upper diagonal stroke extending in a curve which connects with a horizontal line placed above letters "stone."

Particular description of goods.—Stamped Steel Pulleys of Various Diameters and Widths for Power-Transmission Purposes as Complete Units, in the Construction of Machines, on Line and Other Shafting, Etc.

Claims use since 1906.

Ser. No. 129,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILSON & CO. INC., New York, N. Y., and Chicago, Ill. Filed Mar. 16, 1920.

WILSCO

Trade-mark "Wilsco."

Particular description of goods.—Tomato Catchup, Fruit in Sugar, Cherries, Oysters, Salmon, Tomatoes, Succotash, Sauerkraut, Peas, Okra and Tomatoes, Cut Okra, Corn, Beets, Wax Beans, Strawberries, Raspberries, Blackberries, Pineapple, Plums, Pears, Peaches, Grapes, Royal Anne Cherries, Apricots, Hominy, Pumpkin, Sweet Potatoes, Spinach, Rhubarb, Apples, Asparagus.

Claims use since July 26, 1916.

Ser. No. 131,719. (CLASS 38. PRINTS AND PUBLICATIONS.) THE GEORGE MATTHEW ADAMS SERVICE, New York, N. Y. Filed Apr. 26, 1920.

Minute Movies

Particular description of goods.—Series of Cartoons.

Claims use since Dec. 1, 1919.

Ser. No. 138,800. (CLASS 8. RECEPTACLES.) ALUMINIUM WALZWERKE A.-G., Schaffhausen, Switzerland. Filed Oct. 26, 1920.



Particular description of goods.—Boxes and Vases Made of Aluminium.

Claims use since Dec. 1, 1912.

Ser. No. 139,790. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) EVANS CONCINNUM & METAL WORKS, LTD., London, England. Filed Nov. 18, 1920.

CONCINNUM

Particular description of goods.—Pocket Cigarette-Rolling Machines.

Claims use since 1885.

Ser. No. 140,311. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

RAINBOW

Particular description of goods.—Muslin, Cambric, Nainsook, and Long Cloth, All in the Piece.

Claims use since 1906.

Ser. No. 143,103. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PORTER CHEMICAL COMPANY, Hagerstown, Md. Filed Feb. 2, 1921.

CHEMCRAFT

Particular description of goods.—Chemicals as Listed in Accompanying Catalogue.

Claims use since on or about Nov. 1, 1915.

Ser. No. 143,544. (CLASS 37. PAPER AND STATIONERY.) THE C. L. LABOITEAUX COMPANY, Cincinnati, Ohio. Filed Feb. 14, 1921.

PARAGON

Particular description of goods.—Strawboard, Box Board, Binders' Board, Fiber Board, Backing Board, Plain Chip Board, Pasted Container Board, Pasted Strawboard, and Particularly Pasted Chip Board.

Claims use since first part of November, 1906.

Ser. No. 143,743. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CAMDEN ANCHOR-ROCKLAND MACHINE CO., Camden, Me. Filed Feb. 18, 1921.

KNOX

Particular description of goods.—Marine and Stationary Internal-Combustion Motors and Carburetors.

Claims use since 1901.

Ser. No. 144,358. (CLASS 17. TOBACCO PRODUCTS.) THE TUCKETT TOBACCO COMPANY, LIMITED, Hamilton and London, Ontario, and Montreal, Quebec, Canada. Filed Mar. 9, 1921.

T&B

Particular description of goods.—Cut and Plug Tobacco.

Claims use since Apr. 8, 1872.

Ser. No. 144,546. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SKELTON TOOL CO., Syracuse, N. Y. Filed Mar. 9, 1921.

STC

Trade-mark "STCO."

Particular description of goods.—Tools Consisting of Reamers, Boring Bars, Special Metal Working Tools, and Machine Guards.

Claims use since on or about Feb. 1, 1919.

Ser. No. 144,884. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SANDER, WIELER & CO., Hamburg, Germany. Filed Mar. 17, 1921.



The Chinese characters appearing upon label of applicant mean: Foreign Firm Lee Kong. No claim is made to said Chinese characters apart from the mark.

Particular description of goods.—Carbon Blacks and Paint Pigments.

Claims use since 1860.

Ser. No. 145,119. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. NOONAN & SONS COMPANY, Boston, Mass. Filed Mar. 23, 1921. Under ten-year proviso.

NOONAN'S

Particular description of goods.—Toilet Preparations—Namely, Complexion Cream, Skin Lotions, and Preparations for the Hair and Scalp.

Claims use since on or about Jan. 1, 1880.

Ser. No. 145,601. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ACKSWELL MFG. & SALES CO. INC., Northport, N. Y. Filed Apr. 2, 1921.

ACKSWELL

Particular description of goods.—Oil Valves.

Claims use since Sept. 29, 1920.

Ser. No. 145,708. (CLASS 39. CLOTHING.) THE PITTSBURGH DRY GOODS COMPANY, Pittsburgh, Pa. Filed Apr. 4, 1921.

JIM DANDY

Particular description of goods.—Hosiery.

Claims use since 1907.

Ser. No. 145,861. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SULLIVAN MACHINERY COMPANY, Boston, Mass., and Chicago, Ill. Filed Apr. 7, 1921.

CYCLONE

Particular description of goods.—Air Lifts and Liquid Separators.
Claims use since May 7, 1920.

Ser. No. 146,321. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALLAN ANGUS MAGEE, Montreal, Quebec, Canada. Filed Apr. 18, 1921.

HORSE-BIKE

Particular description of goods.—Horses on Two, Three, or Four Wheels for Children.
Claims use since Jan. 15, 1921.

Ser. No. 146,549. (CLASS 7. CORDAGE.) THE HOOVEN & ALLISON COMPANY, Xenia, Ohio. Filed Apr. 22, 1921.

H&A

Particular description of goods.—Ropes and Cordage—Namely, Sisal and Manila Ropes.
Claims use since Aug. 15, 1920.

Ser. No. 146,655. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.

Aster

Particular description of goods.—Ammonia, Castor Oil, Hive-Sirup Expectorant, Sirup of Figs and Senna, Tablets for the Relief of Aches and Pains, Cough Balsam, Sulphate Quinine Capsules, Worm Powders, Salts, Candy Worm Lozenges, Compound for Preserving Foods, Worm Sirup, Carbolic Salve, Cocoanut-Oil Shampoo, Rouge, Red Oil Liniment, Witch-Hazel Cream, Seidlitz Powders, Cream Tartar, Facial Cream, Saltpeter, Copperas, Haarlem-Oil Capsules, Nail Polish, Toilet Waters, Facial Powders, Violet Toilet Water, Cucumber and Witch-Hazel Cream, Camphorated Paraffine Oil, Paregoric, Tincture Arnica, Spirits Niter, Assafetida, Earache Drops, Witch Hazel, Liquid Bluing, Glycerine, Corn Plasters, Eyewater, Calomel, Sirup of Ipecac, Hoffman's Drops, Sirup of Pepsin, Egg Preserver, Candy Laxative, Powders for the Relief of Pain, Charcoal and Pepsin Lozenges, Sulphur and Cream of Tartar Lozenges, Bronchial Lozenges, Blue Vitriol, Colic and Diarrhea Mixture, Almond Cream Lotion, Cold Cream, Salicylic Acid, Mutton Tallow and Glycerine Cream, Moth Balls, Dental Cream, Peroxide Cream, Hand Lotions, Cucumber Cream, Witch Hazel Cream, Senna Leaves, Lip-Stick Rouge, Kidney Pills, Carbolic Acid, Lilac Toilet Water, Hair Tonic, White Liniment, Petroleum Jelly, Aspirin Tablets, Glycerine Rose-Water and Bay-Rum Preparation, Tincture Iron, Toothache Gum, Toothache Drops, Bay Rum, Epsom Salts, Alum, Spirits of Camphor, Glauber Salts.
Claims use since December, 1913.

Ser. No. 147,192. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed May 4, 1921.

TUCKAWAY

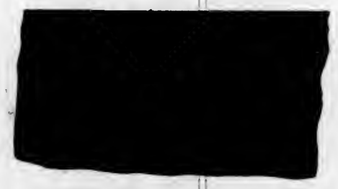
Particular description of goods.—Safety Razors.
Claims use since Apr. 26, 1921.

Ser. No. 147,229. (CLASS 12. CONSTRUCTION MATERIALS.) ROBERT BURHANS, Jr., Los Angeles, Calif. Filed May 5, 1921.

FEATHERSTONE

Particular description of goods.—An Insulating Powder Used in Building Construction and as an Ingredient in Making Mortar and Also for Making Into Building Bricks.
Claims use since August, 1920.

Ser. No. 147,266. (CLASS 39. CLOTHING.) THE VAN RAALTE COMPANY, New York, N. Y. Filed May 5, 1921.



No claim is made to the exclusive use of the representation of the goods apart from the mark as shown and described.
Particular description of goods.—Stockings.
Claims use since September, 1920.

Ser. No. 147,380. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) UNITED STATES BREWING COMPANY, Newark, N. J. Filed May 7, 1921.

TREFZ
"TASTE TELLS"
SPECIAL

The word "Special" being disclaimed apart from the mark as shown.
Particular description of goods.—Beer and Near Beer.
Claims use since 1909.

Ser. No. 147,727. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LINDSBORG MILLING & ELEVATOR CO., Lindsborg, Kans. Filed May 14, 1921.

GOLDEN EAGLE

Particular description of goods.—Wheat Flour.
Claims use since Apr. 12, 1905.

Ser. No. 148,041. (CLASS 5. ADHESIVES.) UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass. Filed May 21, 1921.

UNION

Trade mark consists of word "Union."
Particular description of goods.—Cement Such as is Used in the Manufacture and Repairing of Boots and Shoes.
Claims use since 1915.

Ser. No. 148,623. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) A. STEIN & COMPANY, Chicago, Ill. Filed June 3, 1921.

HICKORY

Particular description of goods.—Elastic Webbing and Shirred Elastic Ribbon.
Claims use since January, 1913.

Ser. No. 149,093. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NATIONAL HOME APPLIANCE CORPORATION, Detroit, Mich. Filed June 13, 1921.

Water Baby

Particular description of goods.—Household Appliances Consisting of Hydraulic Motors and Hydraulically-Actuated Cleaners, Grinders, Beaters, Buffers, and Parts Thereof.
Claims use since Jan. 31, 1921.

Ser. No. 149,102. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HIRAM B. RHYMER, Elmira, N. Y. Filed June 13, 1921.

RHY-OX-IDE

Particular description of goods.—Washing Powder.
Claims use since May 1, 1914.

Ser. No. 149,168. (CLASS 32. FURNITURE AND UPHOLSTERY.) MELVILLE C. BACHELLER, Grand Forks, N. Dak. Filed June 15, 1921.

Kiddie
Kricket

No claim made to word "Kricket" apart from mark shown.
Particular description of goods.—Benches Other Than Workbenches.
Claims use since May 10, 1921.

Ser. No. 149,408. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALBERT E. LEON, Belmont, Mass. Filed June 20, 1921.

CELLUGRAPH

Particular description of goods.—Antifriction Bearings, Shafts, Arbors, and Bearing Parts.
Claims use since January, 1919.

Ser. No. 149,598. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACKAGE CONFECTIONERY COMPANY, Boston, Mass. Filed June 24, 1921.

CAPTAIN KIDD'S TREASURE CHEST

Particular description of goods.—Candy.
Claims use since Jan. 21, 1916.

Ser. No. 150,957. (CLASS 39. CLOTHING.) BONAR-PHELPS COMPANY, New York, N. Y. Filed July 26, 1921.

FUSIYAMA

Particular description of goods.—Hats for Men.
Claims use since about December, 1919.

Ser. No. 152,217. (CLASS 15. OILS AND GREASES.) THE STAR OIL COMPANY, Chicago, Ill. Filed Aug. 26, 1921.

JUPITER

Particular description of goods.—Lubricating Oils.
Claims use since 1897.

Ser. No. 152,459. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOSTON & LOCKPORT BLOCK COMPANY, Boston, Mass. Filed Sept. 1, 1921.



No claim is made to the representation of the pulley or block. Trade-mark consists of a band or stripe colored yellow applied or produced in center of the periphery or score of sheave of a pulley or block covering approximately one-half of the width of such periphery or score and going all way round the same.
Particular description of goods.—Pulleys or Blocks.
Claims use since Jan. 1, 1901.

Ser. No. 152,460. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOSTON & LOCKPORT BLOCK COMPANY, Boston, Mass. Filed Sept. 1, 1921.



No claim to representation of pulley or block. Trade-mark consists of a band or stripe colored red applied or produced in the center of the periphery or score of sheave of a pulley or block covering approximately one-half of the width of such periphery or score and going all way round the same.
Particular description of goods.—Pulleys or Blocks.
Claims use since Jan. 1, 1901.

Ser. No. 152,727. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HARRY SILBERT, doing business as Hudson Bay Fur Company, New York, N. Y. Filed Sept. 8, 1921.



Particular description of goods.—Prepared Furs in the Piece or by the Yard.
Claims use since Aug. 17, 1921.

Ser. No. 152,849. (CLASS 38. PRINTS AND PUBLICATIONS.) ALBERT E. JACOBSON, New York, N. Y. Filed Sept. 12, 1921.

ARTATONE

Particular description of goods.—Photographic Prints.
Claims use since March, 1912.

Ser. No. 152,897. (CLASS 39. CLOTHING.) MARYLAND SHOE CORPORATION, Baltimore, Md. Filed Sept. 13, 1921.

BILTOFIT

Particular description of goods.—Leather and Canvas Shoes.
Claims use since Sept. 5, 1921.

Ser. No. 152,898. (CLASS 39. CLOTHING.) MARYLAND SHOE CORPORATION, Baltimore, Md. Filed Sept. 13, 1921.

TENDERTOUCH

Particular description of goods.—Leather and Canvas Shoes.
Claims use since Sept. 5, 1921.

Ser. No. 153,243. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GADOMSKI BROS., Jersey City, N. J. Filed Sept. 23, 1921.



No claim is made to the representation of the container or to the words "Healing Powder" apart from mark shown on drawing.
Particular description of goods.—Healing Compound Adapted for Healing Sores and Wounds.
Claims use since May, 1920.

Ser. No. 153,356. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KNICKERBOCKER CASE COMPANY, Chicago, Ill. Filed Sept. 26, 1921.



No claim is made to the word "Chicago" apart from mark shown on drawing.
Particular description of goods.—Cases and Bags Made of Leather, Fiber, or Other Suitable Materials, and Which Are to be Used for Holding Fishing Material.
Claims use since Mar. 16, 1921.

Ser. No. 153,420. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK VALCOUR, Cutbank and Forsyth, Mont. Filed Sept. 27, 1921.

ANNIHILATOR

Particular description of goods.—Liquid Cleaning Compound.
Claims use since Sept. 1, 1921.

Ser. No. 153,594. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERT FABIG, Gesellschaft mit beschränkter Haftung, Maschinen u. Apparate-Fabrik, Neuruppin, Germany. Filed Oct. 1, 1921.

„Rofa"

Particular description of goods.—Typewriting Machines and Parts Thereof.
Claims use since Aug. 5, 1919.

Ser. No. 153,649. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) Detroit Brass & Malleable Works, Detroit, Mich. Filed Oct. 3, 1921.



Particular description of goods.—Brass Valves and Cocks, Gas Appliances—Namely, Brackets, Bracket Cocks, Chandelier Cocks, Fixture Fittings, Hose Cocks, Hose Nipples, Gas-Log Mixers, Gas Mixer Pins, Service Cocks, and Extension Sockets, and Malleable-Iron Pipe Fittings.
Claims use since 1904.

Ser. No. 153,733. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) MANHATTAN BRIAR PIPE COMPANY, New York and Brooklyn, N. Y. Filed Oct. 4, 1921.



No claim is made to pictorial representation of pipe apart from mark on drawing. The mark consists of two relatively small adjacent dots of gold color applied or affixed to stem of pipe.
Particular description of goods.—Pipes for Smoking.
Claims use since Sept. 20, 1921.

Ser. No. 153,743. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) MANHATTAN BRIAR PIPE COMPANY, New York and Brooklyn, N. Y. Filed Oct. 4, 1921.



No claim is made to the pictorial representation of the pipe apart from mark shown. The mark consists of a relatively short and narrow stripe of silver color applied or affixed to the stem of the pipe.
Particular description of goods.—Pipes for Smoking.
Claims use since Sept. 20, 1921.

Ser. No. 153,950. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) REED ROLLER BIT CO., Houston, Tex. Filed Oct. 10, 1921.



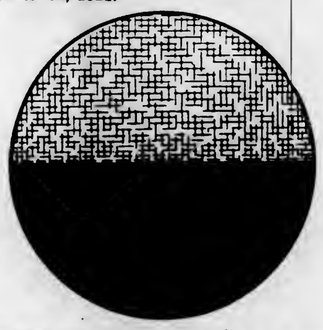
The representation of the roller bit and the printed words except "Reed Roller Bit Co." are disclaimed apart from mark shown. The lining in drawing expresses red, yellow, and blue color.
Particular description of goods.—Rotary Drill Bits, Reamers, Oil-Well Fishing Tools, and Repair Paste for Oil and Water Wells.
Claims use since May, 1920.

Ser. No. 153,980. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) J. A. HENCKELS, New York, N. Y., assignor to Gref & Schmidt, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 11, 1921.



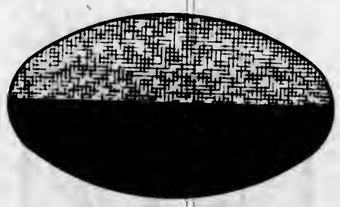
Particular description of goods.—Cutlery—Namely, Pocketknives, Penknives, Shears, and Scissors.
Claims use since Oct. 1, 1888.

Ser. No. 154,036. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORRIS & COMPANY, Chicago, Ill. Filed Oct. 12, 1921.



Trade-mark consists of a circular panel of which upper half is yellow and lower half black, said panel being surrounded by an annular border.
Particular description of goods.—Meats, Meat Products, and Other Foods—Namely, Cheese, Bacon, Ham, Skinned Ham, Boiled Ham, Sausages, and Extract of Beef.
Claims use since Dec. 1, 1919.

Ser. No. 154,037. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORRIS & COMPANY, Chicago, Ill. Filed Oct. 12, 1921.



Trade-mark consists of an oval panel of which the upper half is yellow and lower half black, said panel being surrounded by a narrow border of oval contour.
Particular description of goods.—Meats, Meat Products, and Other Foods—Namely, Sausage, Sliced Bacon, Pure Lard, Leaf Lard, Sliced Dried Beef, Lamb Tongues, and Bouillon Cubes.
Claims use since Dec. 1, 1919.

Ser. No. 154,100. (CLASS 27. HOROLOGICAL INSTRUMENTS.) SUSSFELD, LORSCH & SCHIMMEL, New York, N. Y. Filed Oct. 14, 1921.



No right to the use of trade-mark for watches is claimed.
Particular description of goods.—Watch Parts.
Claims use since Apr. 18, 1921.

Ser. No. 154,226. (CLASS 39. CLOTHING.) R. LIPSCHITZ & SONS, New York, N. Y. Filed Oct. 17, 1921.



The word "Mills" does not form a part of the registration apart from mark shown on drawing.
Particular description of goods.—Hosiery, Underwear, and Sweaters of Knitted Fabric for Men, Women, and Children.
Claims use since Oct. 27, 1920.

Ser. No. 154,311. (CLASS 39. CLOTHING.) THOMAS E. GREANEY, doing business as Standard Neckwear Company, Boston, Mass. Filed Oct. 19, 1921.



"Wear Plus" (Trade-Mark).
Particular description of goods.—Neckties.
Claims use since June 1, 1921.

Ser. No. 154,634. (CLASS 32. FURNITURE AND UPHOLSTERY.) BURTON-DIXIE CORPORATION, Chicago, Ill. Filed Oct. 27, 1921. Under ten-year proviso.

Burton

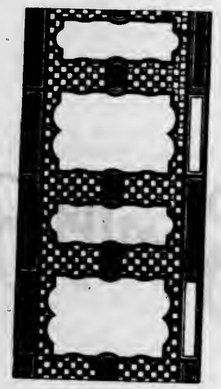
Particular description of goods.—Mattresses, Cushions, Pads, Springs, Box Springs, Pillows, and Beds.
Claims use since 1894.

Ser. No. 154,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE VELVOTONE CHEMICAL CO., Jacksonville, Fla. Filed Nov. 2, 1921.



Particular description of goods.—Preparation to Promote the Growth of Hair on the Scalp and Temples and for the Treatment of Dandruff, Tetter, and Eczema.
Claims use since February, 1921.

Ser. No. 154,996. (CLASS 12. CONSTRUCTION MATERIALS.) RUTLAND FIRE CLAY CO., Rutland, Vt. Filed Nov. 3, 1921.



The lining on drawing denotes shading.
Particular description of goods.—Boiler Covering.
Claims use since some time in 1908.

Ser. No. 155,210. (CLASS 39. CLOTHING.) LANE BROTHERS COMPANY, Boston, Mass. Filed Nov. 2, 1921.

"A TO Z" COMFORT

Applicant hereby disclaims the word "Comfort" shown on drawing.

Particular description of goods.—Leather Shoes, Felt Shoes, and Shoes of a Combination of Leather and Rubber.

Claims use since July 14, 1909.

Ser. No. 155,326. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y., and Kansas City, Mo. Filed Nov. 12, 1921.

GOLDEN LIGHT

Particular description of goods.—Wheat Flour.

Claims use since Aug. 1, 1906.

Ser. No. 155,412. (CLASS 39. CLOTHING.) L. H. LEWIS COMPANY, Dallas, Tex. Filed Nov. 15, 1921.

Sonny Boy

Particular description of goods.—Hosiery.

Claims use since about Nov. 1, 1921.

Ser. No. 155,467. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AACHENER THERMALWASSER "KAISERBRUNNEN," AKTIENGESELLSCHAFT, Aachen Aix-la-Chapelle, Germany. Filed Nov. 17, 1921.

NATURAL SPRING PRODUCTS
AIX

No claim is made to the exclusive use of any of the words except "Aix" apart from mark shown in drawing.

Particular description of goods.—Drinking Salt, Bath Salt, Pastils Containing Spring Salts for Internal Use, and Medicated Cream for External Use for the Treatment of Ailments of the Skin.

Claims use since June 5, 1909.

Ser. No. 155,506. (CLASS 39. CLOTHING.) LORD & TAYLOR, New York, N. Y. Filed Nov. 17, 1921.

SHORT JAMA

Particular description of goods—Pyjamas.

Claims use since Nov. 1, 1920.

Ser. No. 155,508. (CLASS 39. CLOTHING.) LORD & TAYLOR, New York, N. Y. Filed Nov. 17, 1921.

LONG JAMA

Particular description of goods—Pyjamas.

Claims use since Nov. 1, 1920.

Ser. No. 155,572. (CLASS 39. CLOTHING.) JAMES A. PANARELLO, doing business as J. A. Panarello Co., New York, N. Y. Filed Nov. 18, 1921.

FAIRWAY

Trade-mark "Fairway."

Particular description of goods.—Golf Hose.

Claims use since Sept. 30, 1921.

Ser. No. 155,598. (CLASS 39. CLOTHING.) MARCUS BRAHM'S SONS, New York, N. Y. Filed Nov. 19, 1921.

Briar Club

The lining on drawing denoted the color red.

Particular description of goods.—Clothing Consisting of Men's and Youths' Outer Shirts, Men's Nightshirts, and Pyjamas.

Claims use since Oct. 1, 1921.

Ser. No. 155,631. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) IRVING R. PIERSON, New York, N. Y. Filed Nov. 19, 1921.

DETEKTOR

Particular description of goods.—Metallic Straps for Use in Strapping and Sealing Boxes and Other Containers.

Claims use since Oct. 21, 1921.

Ser. No. 156,231. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MILLER TOOL & MFG. CO., Detroit, Mich. Filed Dec. 3, 1921.

SERVICE

No claim is made to the exclusive use of the words "Auto Service Tools" except in the connection and design shown.

Particular description of goods.—Service Tools Used in Repairing Automobiles Comprising Disk-Clutch Spring Compressors, Pinion Pullers, Cylinder-Lapping Tools, Cam-Shaft Thrust-Block Pullers, Fixtures for Removing Cone-Clutch Shaft-Front Bearings, Crank-Shaft and Connecting-Rod Bearing Shim Filing Blocks, Universal-Joint Front-Yoke Pullers, Rear-Axle Stands, Front-Axle Stands, Spring Shackle-Bolt Grease Guns, Engine Repair and Test Stands, Inner and Outer Brake-Adjusting Fixtures, Engine-Lifting Attachments, Gasoline and Oil Line Flanging Tools, Feelers, Socket-Wrench Kits, Plain Braces, Dies and Stocks, Valve Grinders, Valve-Spring Holders, Grabhooks for Unloading Cars, Tork-Tube Tools for Pulling Bearing Cups Out of Tork Tubes, Arbors for Aligning Pistons with Connecting Rods, Tools for Compressing Springs on Wind-Shield Pivots While Starting Nut, Chain Hoists, Valve-Refacing Tools, Bearing Scrapers, Fixtures for Supporting Front End of Motors, Universal-Ratchet Socket Wrench Sets, Long-Nose Side Cutting Pliers, Large Starting Cranks, Piston Vises, Front Car-Lifting Bars, Motor-Lifting Chain and Ring Nuts, Motor-Lifting Ring Nuts, Brooches, Connecting-Rod and Piston Aligning Fixtures, Dollies for Use When Unloading Automobiles from Freight Cars, Cylinder-Reboring Tools, Gear Pullers, Rawhide Hammers, Wrenches, Wheel Pullers, Valve-Seating Tools, Counterboring Tools, Tinners' Snips, Hack Saws, Valve-Seat Lapping Braces, Valve-Spring Compressors, Valve-Guide Installing Fixtures, Drifts, Drills, Reamers, Taper Keys, Cold Chisels, Plug Taps, Spark-Plug Hole Taps, Piston-Ring Expanders, Bushing Extractors.

Claims use since in or about March, 1921.

Ser. No. 156,271. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH FIMMEL, North Branch, N. J. Filed Dec. 5, 1921.

Fimmeline

Particular description of goods.—Salve or Ointment for Open Wounds or Skin Disturbances.

Claims use since Nov. 1, 1921.

Ser. No. 156,352. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETTY JEANE, INCORPORATED, Los Altos, Calif. Filed Dec. 7, 1921.

Betty Jeane's

Particular description of goods.—Canned Fruits, Canned Vegetables, Olives, Nuts in Their Natural State, Honey, Jelly, Fruit Preserves, Marmalade, and Whole Spiced Figs.

Claims use since June 1, 1920.

Ser. No. 156,410. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PASSAIC PRINT WORKS, Passaic, N. J. Filed Dec. 7, 1921.

CLOVER BELL

Particular description of goods.—Cotton Piece Goods.

Claims use since November, 1919.

Ser. No. 156,471. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) TERNSTEDT MANUFACTURING CO., Detroit, Mich. Filed Dec. 8, 1921.



Particular description of goods.—Automobile-Body Hardware—Namely, Window Regulators and Parts Thereof, Curtain Rollers and Parts Thereof, Door Bumpers and Door Dovetails, Antirattlers for Doors and Windows, Doorchecks, Strap Hinges, Rear-Deck Hinges, Concealed Hinges, Piano Hinges, Rear-Deck Lid Braces, Screw-Machine Products Comprising Studs, Screws, Nuts, Window-Regulator Parts, and Crank-Shafts.

Claims use since June 1, 1921.

Ser. No. 156,500. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MILLER LOCK COMPANY, Philadelphia, Pa. Filed Dec. 9, 1921.



Particular description of goods.—Frying Pans and Broom Holders.

Claims use since May 15, 1921.

Ser. No. 156,727. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN WANAMAKER, PHILADELPHIA, Philadelphia, Pa. Filed Dec. 14, 1921.

BOUQUET D'ORIENT

Particular description of goods.—Soaps.

Claims use since Mar. 4, 1921.

Ser. No. 156,778. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE COLLINS COMPANY, Collinsville, Conn. Filed Dec. 16, 1921:

RAYO

Particular description of goods.—Agricultural Implements, Cutlery and Edge Tools and Machinists' Tools, viz.:—Axes, Hatchets, Adzes, Bush Hooks, Saws, Pickaxes, Machetes, Tercados, Chisels, Bowie Knives, Kitchen Knives, Swords, Augers, Boring Bits, Lanzas, Lancitas, Jincolas, Arpones, Sickles, Millpicks, Wedges, Shovels, Spades, Stone and Rock Drills, Crowbars, Mattocks, Hoes, Picks, Barras, Cavadores, Barretones, Palas, Tarpalas, Sledges, Hammers, Plows.

Claims use since February, 1920.

Ser. No. 156,800. (CLASS 39. CLOTHING.) THE PLAUT-BUTLER COMPANY, Cincinnati, Ohio. Filed Dec. 16, 1921.



No claim is made to the exclusive use of the picture or representation of a shoe or the words "Dainty Arch" apart from the mark in its entirety as shown.

Particular description of goods.—Boots, Shoes, and Slippers Made Either Wholly of Leather or of Fabric, Such as Canvas, Satin, or Cloth, or Combination of Leather and Fabric.

Claims use since about Oct. 1, 1921.

Ser. No. 156,866. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SYKES & THOMPSON CO., Cleveland, Ohio. Filed Dec. 17, 1921.



No claim being made to the words "Containers Pat. May 27, 1919, Name & Trade Mark Registered, Contents 7 Pieces Cleveland Candy."

Particular description of goods.—Confections—Namely Candy.

Claims use since Nov. 10, 1921.

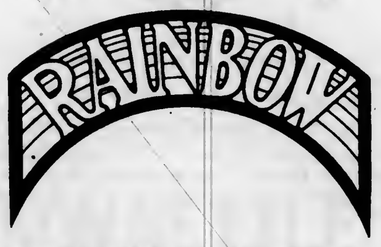
Ser. No. 156,945. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) A. O. J. TOOL COMPANY, Coldwater, Mich. Filed Dec. 20, 1921.



Particular description of goods.—Shock Pneumatic Tools and Hand Tools Made of Steel Comprising Rivet Sets, Pistons for Pneumatic Hammers, Bushings, Punches, and Chisels.

Claims use since June 1, 1921.

Ser. No. 157,043. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) RAINBOW IMPORT & EXPORT CORPORATION, New York, N. Y. Filed Dec. 22, 1921.



Particular description of goods.—Aluminum Kitchen Utensils and Flatware—Namely, Sauce Pots of All Descriptions, Teakettles, Colanders, Teapots, Fry Pans, Graters, Cake Turners, Skimmers, Ladles, Strainers, Trays, Soap Dishes, Pudding Pans, Funnels, Coffeepots, Percolators, Pie Plates, Tumblers, Roasters, Molds, Cups, Griddles, Basins, Pitchers, Dippers, and Muffin Pans.

Claims use since January, 1921.

Ser. No. 157,169. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) 1 IN 5 MANUFACTURING CO., Detroit, Mich. Filed Dec. 27, 1921.



No claim is made to the words "Carbon Remover and Gasoline Saver, One Ounce to Gal. of Gasoline" apart from mark shown.

Particular description of goods.—Liquid Preparation for Energizing Gasoline.

Claims use since September, 1921.

Ser. No. 157,293. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Dec. 30, 1921.

MT. TOM MILLS

No claim to exclusive use of word "Mills" apart from mark shown in drawing.

Particular description of goods.—Writing and Printing Papers.

Claims use since Aug. 1, 1921.

Ser. No. 157,294. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Dec. 30, 1921.

MT. HOLYOKE MILLS

No claim to exclusive use of word "Mills" apart from mark shown in drawing.

Particular description of goods.—Writing and Printing Papers.

Claims use since Oct. 10, 1921.

Ser. No. 157,317. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL VENDING MACHINES LTD., Montreal, Quebec, Canada. Filed Dec. 30, 1921.



Particular description of goods.—Vending Machines.

Claims use since Sept. 30, 1921.

Ser. No. 157,333. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE RODIER, Paris, France. Filed Dec. 30, 1921.

KASHA

Particular description of goods.—Woolen, Merino, and Cashmere Piece Goods.

Claims use since March, 1910.

Ser. No. 157,334. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE RODIER, Paris, France. Filed Dec. 30, 1921.

BARAGLADINE

Particular description of goods.—Piece Goods of Wool and of Silk and of Combinations of Silk and Wool.

Claims use since Oct. 11, 1921.

Ser. No. 157,335. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE RODIER, Paris, France. Filed Dec. 30, 1921.

BULLA

Particular description of goods.—Piece Goods of Cotton and of Wool and Combinations of Cotton and Wool.
Claims use since Oct. 11, 1921.

Ser. No. 157,587. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE RODIER, Paris, France. Filed Jan. 6, 1922.

CRÉPELLA

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 16, 1920.

Ser. No. 157,636. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SCHLANGEN BROS. CO., Chicago, Ill. Filed Jan. 7, 1922.

DAISY

Particular description of goods.—Hose Nozzles.
Claims use since December, 1919.

Ser. No. 157,720. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MCCLAVE-BROOKS CO., Scranton, Pa. Filed Jan. 10, 1922.

McClave
GRATES
STOKERS
BLOWERS

No claim is made to words "Grates, Stokers, Steam Blowers" except in the setting and relation in which they appear on drawing.
Particular description of goods.—Steam Blowers.
Claims use since Aug. 3, 1921.

Ser. No. 157,838. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE F. A. KLAINE COMPANY, Cincinnati, Ohio. Filed Jan. 12, 1922.

JUMBO

Particular description of goods.—Coal, Coke, Wood, and Gas Stoves.
Claims use since 1880.

Ser. No. 157,914. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CRESCENT COMPANY, Tart, Pa. Filed Jan. 14, 1922.

CRESCENT FARM
CRESCENT

Particular description of goods.—Unsweetened Evaporated Milk.
Claims use since November, 1919.

Ser. No. 157,943. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, trading as Fred B. Neuhoff Company, Los Angeles, Calif. Filed Jan. 14, 1922.

BUENA VISTA

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1916.

Ser. No. 157,945. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, trading as Fred B. Neuhoff Company, Los Angeles, Calif. Filed Jan. 14, 1922.

REDONDO

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1916.

Ser. No. 157,946. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, trading as Fred B. Neuhoff Company, Los Angeles, Calif. Filed Jan. 14, 1922.

EL MORO

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1916.

Ser. No. 157,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTGATE SEA PRODUCTS CO., San Diego, Calif. Filed Jan. 14, 1922.

WESTGATE

Particular description of goods.—Canned White Tuna Fish.
Claims use since April, 1921.

Ser. No. 158,166. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM ZINSSER & COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 19, 1922.

GIBRALTAR

Particular description of goods.—Oil Paint.
Claims use since about 1912.

Ser. No. 158,190. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE LAMSON BROTHERS CO., Toledo, Ohio. Filed Jan. 20, 1922.

NON NETTLE

Particular description of goods.—Toilet Soaps.
Claims use since July 28, 1914.

Ser. No. 158,245. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JAMES MCCREERY & COMPANY, New York, N. Y. Filed Jan. 21, 1922.

La Gloire

Particular description of goods.—Combs, Pincushions, Glove Stretchers, Shoehorns not of Precious Metal, and Button Hooks not of Precious Metal, Celluloid, Rubber, Ivory, Shell, Amber, Horn, Bone, or the Imitations Thereof.
Claims use since Oct. 25, 1921.

Ser. No. 158,279. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo. Filed Jan. 21, 1922.

JUMBO

Particular description of goods.—Crushers and Like Machines.
Claims use since Dec. 24, 1904.

Ser. No. 158,292. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARLSBAD VEGETABLE GROWERS ASSOCIATION, Carlsbad, Calif. Filed Jan. 23, 1922.

WIZARD

Particular description of goods.—Fresh Vegetables.
Claims use since Jan. 15, 1921.

Ser. No. 158,301. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FILICE & PERRELLI CANNING CO., Gilroy, Calif. Filed Jan. 23, 1922.

DEMAND

Particular description of goods.—Canned Vegetables and Canned Fruits.
Claims use since July 15, 1921.

Ser. No. 158,313. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAMOES LIMITED, London, England. Filed Jan. 23, 1922.

HAMOES

Particular description of goods.—Hair Wash, Shampoo Powders, and Perfumery Powders, Pastes, and Liquid Preparations for Cleansing the Teeth and Gums.
Claims use since June, 1920.

Ser. No. 158,322. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LANGLEY & MICHAELS CO., San Francisco, Calif. Filed Jan. 23, 1922.

Reliance

Particular description of goods.—Soda Fountains, Carbonators, and Soda-Fountain Machinery.
Claims use since Jan. 1, 1921.

Ser. No. 158,329. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill. Filed Jan. 23, 1922.

CALUMET

Particular description of goods.—Malt Sirup for Food Purposes.
Claims use since June 13, 1921.

Ser. No. 158,330. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill. Filed Jan. 23, 1922.

MARVEL

Particular description of goods.—Malt Sirup for Food Purposes.
Claims use since June 13, 1921.

Ser. No. 158,331. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill. Filed Jan. 23, 1922.

CARAVAN

Particular description of goods.—Malt Sirup for Food Purposes.
Claims use since June 13, 1921.

Ser. No. 158,334. (CLASS 46. FOODS AND INGREDIENTS OF FODS.) RODDENBERY BROS., Cairo, Ga. Filed Jan. 23, 1922.

Pure Gold
BRAND

No claim to the word "Brand" apart from mark shown on drawing.
Particular description of goods.—Pure Georgia Cane Syrup.
Claims use since Feb. 7, 1899.

Ser. No. 158,349. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHITE BROS. & CAUM CO., Lewiston, Idaho. Filed Jan. 23, 1922.



Particular description of goods.—Fresh Deciduous Fruits.
Claims use since Sept. 23, 1921.

Ser. No. 158,395. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KRUEGER-TOBIN CO., INC., New York, N. Y. Filed Jan. 24, 1922.

KREEPER

Particular description of goods.—Infants' Hosiery.
Claims use since Jan. 13, 1922.

Ser. No. 158,407. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACE & CO., Brooklyn, N. Y. Filed Jan. 24, 1922.

GUMMIES

Particular description of goods.—Candies.
Claims use since Jan. 19, 1922.

Ser. No. 158,410. (CLASS 38. PRINTS AND PUBLICATIONS.) ASSOCIATED EDITORS, Chicago, Ill. Filed Jan. 25, 1922.

THE PLAY MAN'S GAMES

Particular description of goods.—Section of a Daily, Weekly, or Monthly Periodical Devoted to Games.
Claims use since Dec. 10, 1921.

Ser. No. 158,462. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo. Filed Jan. 25, 1922.

MAMMOTH

Particular description of goods.—Crushers and Like Machines.
Claims use since July 27, 1916.

Ser. No. 158,498. (CLASS 12. CONSTRUCTION MATERIALS.) WARREN BROTHERS COMPANY, Boston, Mass. Filed Jan. 26, 1922.

ASBESTOS-
BITULITHIC

Particular description of goods.—Pavements and Paving Material Containing Bituminous Matter.
Claims use since January 20, 1921.

Ser. No. 158,511. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE YEAST TABLET CO., South Bend, Ind. Filed Jan. 26, 1922.

FET-A-YEAST

Particular description of goods.—Food Tonic Containing Vitamines of Yeast.
Claims use since Jan. 2, 1922.

Ser. No. 158,522. (CLASS 12. CONSTRUCTION MATERIALS.) THE DURAFLEX COMPANY, Baltimore, Md. Filed Jan. 27, 1922.

DURAFLEX

Particular description of goods.—Plastic Floor Covering to be Applied with a Trowel.
Claims use since Dec. 19, 1921.

Ser. No. 158,543. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERT T. STEVENSON, doing business as The Stevenson Sales Company, Chicago, Ill. Filed Jan. 27, 1922.

Ideal

Particular description of goods.—Can Opener.
Claims use since October, 1914.

Ser. No. 158,556. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.

F

Particular description of goods.—Winding Frames.
Claims use since 1892.

Ser. No. 158,558. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.

L

Particular description of goods.—Reel Mills.
Claims use since 1892.

Ser. No. 158,606. (CLASS 39. CLOTHING.) DEVON MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Jan. 30, 1922.

Tumble-in

Particular description of goods.—Play Suits and Overalls.
Claims use since June 2, 1921.

Ser. No. 158,640. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PALMERS, LIMITED, doing business as Minty, Montreal, Quebec, Canada. Filed Jan. 30, 1922.

Gay Paree

Particular description of goods.—Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Face Powders, Compact Face Powders, Liquid Face Powders, Compact Rouges, Liquid Rouges, Talcum Powders, Eyebrow and Eyelash Growers, Eyebrow Pencils, Eyedrops, Face Bleaches, Hair Salves, Shampoos, Skin Lotions, Hand Lotions, Lip Sticks, Bath Salts, Witch-Hazel Salves, Chemical Preparations for Softening of the Cuticle, Nail Polishes, Nail Bleaches, Toilet Waters, Perfumes, and Hair Tonics.
Claims use since Jan. 9, 1922.

Ser. No. 158,680. (CLASS 39. CLOTHING.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Jan. 31, 1922.

Spiffy Jiffy

Particular description of goods.—Baby Pants.
Claims use since Jan. 10, 1922.

Ser. No. 158,681. (CLASS 39. CLOTHING.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Jan. 31, 1922.

SPIFFY

Particular description of goods.—Baby Pants.
Claims use since Jan. 10, 1922.

Ser. No. 158,704. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CARROSSERIE VAN DEN PLAS, SOCIÉTÉ ANONYME, Brussels, Belgium. Filed Feb. 1, 1922.



"Société Anonyme, Carrosserie and Bruxelles" disclaimed.
Particular description of goods.—Motor-Car Bodies, Parts, and Accessories—Namely, Mud Guards, Wind Shields, Hoods, Collapsible Seats, and Baggage Holders.
Claims use since Sept. 1, 1921.

Ser. No. 158,712. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HALE BROS., INC., San Francisco, Calif. Filed Feb. 1, 1922.

IRONTHREAD

Particular description of goods.—Tablecloths and Napkins.
Claims use since Aug. 1, 1921.

Ser. No. 158,878. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOFT, INCORPORATED, New York, N. Y. Filed Feb. 4, 1922.

LOFTRONE

Particular description of goods.—Candies.
Claims use since Jan. 10, 1922.

Ser. No. 158,884. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH BRUCE MILLER, Indianapolis, Ind. Filed Feb. 4, 1922.



Particular description of goods.—Fire-Extinguishing Composition.
Claims use since Jan. 1, 1922.

Ser. No. 158,985. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 7, 1922.

KEN

Particular description of goods.—Detergent Preparations—Namely, Soap Powders.
Claims use since about November, 1921.

Ser. No. 158,986. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 7, 1922.

KOREX

Particular description of goods.—Detergent Preparations—Namely, Soap Products.
Claims use since about Jan. 19, 1922.

Ser. No. 159,014. (CLASS 39. CLOTHING.) CHARLES T. DAVIES, Reading, Pa. Filed Feb. 8, 1922.

Mavis

Particular description of goods.—Hosiery.
Claims use since Oct. 4, 1921.

Ser. No. 159,034. (CLASS 39. CLOTHING.) HAUSER & WEIL, New York, N. Y. Filed Feb. 8, 1922.

H W

Particular description of goods.—Belts for Men, Women, and Children.
Claims use since Nov. 4, 1915.

Ser. No. 159,097. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) LINDENHURST MANUFACTURING CO., Lindenhurst, N. Y. Filed Feb. 9, 1922.

LUSTERITE

Trade-mark "Lusterite."
Particular description of goods.—Horn Buttons.
Claims use since October, 1921.

Ser. No. 159,192. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WORUMBO MANUFACTURING COMPANY, Bath, Me. Filed Feb. 10, 1922.

LA CROSSE

Particular description of goods.—Woolen Goods in the Piece.
Claims use since Jan. 21, 1922.

Ser. No. 159,195. (CLASS 32. FURNITURE AND UPHOLSTERY.) AMERICAN CHAIR COMPANY, Sheboygan, Wis. Filed Feb. 11, 1922.

MERIKORD

Particular description of goods.—Household Chairs, Rockers, Tables, Beds, Dressers, Desks, and Fiber Office Furniture.
Claims use since Jan. 17, 1922.

Ser. No. 159,237. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CHARLES A. GOODSPEED, doing business as The Remind-O-Meter Company, Highland Park, Mich. Filed Feb. 11, 1922.

REMIND-O-METER

Particular description of goods.—Hand-Operated Counting Registers.
Claims use since Oct. 1, 1921.

Ser. No. 159,314. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Ho-Ro-Co MANUFACTURING COMPANY, St. Louis, Mo. Filed Feb. 14, 1922.

Ho-Ro-Co

Particular description of goods.—Talcum Powder, Complexion Powder, Depilatory Powder, Petroleum Jelly, Almond Cream, Cold Cream, Vanishing Cream, Massage Cream, Hair Restorer for Promoting the Growth of the Hair, Hair Tonic and Dandruff Remedy, Hair Shampoo, Bay Rum, Compact Face Powder, Face Rouge, Lip Rouge, Eyebrow Pencils, Nail Polish, Toilet Water, Blood and Nerve Tonic, Laxative Tablets; Liniment for the Treatment of Sprains, Bruises, Stiff Muscles, Insect Bites, Lumbago, Muscular Rheumatism, Neuralgia, Sciatica, Chilblains, Muscular Cramps, Wind Colic, Pleurisy, Bronchial Cough, and Spasmodic Croup; Cough Syrup, Medicated Salve for Cuts, Burns, Bruises, Sores, Boils, Skin Diseases, Piles, Catarrh, Oak and Ivy Poisoning, and Insect Bites; Medicated Oil for Internal and External Use for the Relief of Pain, Headache, Hay Fever, Asthma, Coughs, and Cramps; Headache Tablets, Tablets for the Relief of Colds, Corn Plasters, Liver Pills, Kidney Pills, Baking Powder, and Insect Powder.
Claims use since about June 1, 1914.

Ser. No. 159,357. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS. HAYS-RADEN COMPANY, Philadelphia, Pa. Filed Feb. 15, 1922.

SO-PEL-PER

Particular description of goods.—Cleanser for Cleaning Clothes, Silverware, Dishes, Cooking Utensils, Woodwork, Windows, and the Like.
Claims use since about Jan. 10, 1922.

Ser. No. 159,389. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES G. TAYLOR, doing business as The Bok-A-Bel Medicine Co., Peoria, Ill. Filed Feb. 15, 1922.



Particular description of goods.—Compound for Treating Catarrh, Asthma, and Colds.
Claims use since Dec. 20, 1920.

Ser. No. 159,394. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & CO., INC., Long Island City, N. Y. Filed Feb. 15, 1922.

POLLY PRIM

Particular description of goods.—Snap Fasteners.
Claims use since Jan. 27, 1922.

Ser. No. 159,499. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, INC., New York, N. Y. Filed Feb. 18, 1922.

APRIL SHOWERS

Particular description of goods.—Perfumes, Toilet Waters, Face Powders, Toilet Powders, Sachets, Rouges, Brilliantine, and Face Cream.
Claims use since Dec. 3, 1921.

Ser. No. 159,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABRAHAM KHOURY, Manchester, N. H. Filed Feb. 18, 1922.

MASTIKA

Particular description of goods.—Medicine for Menorrhagia, Metrorrhagia, Backache, and Menstrual Fever.
Claims use since Feb. 6, 1919.

Ser. No. 159,554. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURTON-DIXIE CORPORATION, Chicago, Ill. Filed Feb. 20, 1922. Under ten-year proviso.

Burton

Particular description of goods.—Comforters.
Claims use since 1894.

Ser. No. 159,752. (CLASS 37. PAPER AND STATIONERY.) GUILD PRODUCTS CORPORATION, Philadelphia, Pa. Filed Feb. 24, 1922.

Guild

Particular description of goods.—Blank Books, Loose-Leaf-Ledger Binders, Loose-Leaf Sheets, Indexes for Loose-Leaf Equipment, Post Binders, Loose-Leaf Ring Binders, Stenographers' Note Books, Typewriting Paper, Paper, Scratch Pads, Tablets, Envelopes, Diaries, Blotting Paper, Columnar Pads, Box Files, Pens Steel, Penholders, Pencils, Rubber Bands, Rubber Erasers, Card Cabinets, Index Cards, Guide Cards, Folders, Vertical File Guides, Pencil Sharpeners, Fountain Pens, Desk Pads, Clips, Clamps, Fasteners.
Claims use since Feb. 17, 1922.

Ser. No. 159,769. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ENOCH S. ROGERS, trading as E. S. Rogers Mfg. Co., Philadelphia, Pa. Filed Feb. 24, 1922.



No claim to words "The" and "They Propel It Along" apart from remainder of mark shown.
Particular description of goods.—Children's Three-Wheel Propelling Cars.
Claims use since about Dec. 1, 1921.

Ser. No. 159,785. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) FREDERICK O. BERG, doing business as the F. O. Berg Company, Spokane, Wash. Filed Feb. 25, 1922.

Jiffy

Particular description of goods.—Shelter Tents of Canvas or Other Fabric.
Claims use since Jan. 2, 1921.

Ser. No. 159,790. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH COUNORD, Talence, near Bordeaux, France. Filed Feb. 25, 1922.



No claim is made to words "Vin Reconstituant" apart from mark shown.
Particular description of goods.—Tonic Wine Used for Anæmia, Convalescence, Low Vitality, and as a General Tonic.
Claims use since 1912.

Ser. No. 159,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GLENN F. BOWMAN and CHARLES F. C. ARENABERG, Pittsburgh, Pa. Filed Feb. 27, 1922.

MU-SOL-DENT

Particular description of goods.—Dentifrice.
Claims use since Jan. 16, 1922.

Ser. No. 159,886. (CLASS 43. THREAD AND YARN.) REGINALD REYNOLDS, Riverside, Conn. Filed Feb. 27, 1922.

Needlength

Particular description of goods.—Embroidery Yarns and Sewing Threads.
Claims use since January, 1921.

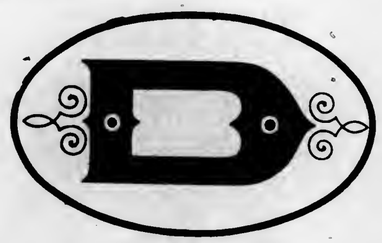
Ser. No. 159,993. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) BUCKNER PROCESS COMPANY, Worcester, Mass. Filed Mar. 1, 1922.

LION PAW
BELTING



No claim to exclusive right to word "Belting" except as accompanied by applicant's trade-mark.
Particular description of goods.—Textile Belting.
Claims use since June, 1921.

Ser. No. 160,001. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) DIACK BROS., Troy, N. Y. Filed Mar. 1, 1922.



The lines shown on drawing are for shading only.
Particular description of goods.—Hairbrushes, Clothes Brushes, and Shoe Brushes.
Claims use since June, 1921.

Ser. No. 160,066. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM T. KRUSCH, doing business as Duplex Products Co., Norwalk, Conn. Filed Mar. 2, 1922.

CREAMINIZED

Particular description of goods.—Shampoo Cream.
Claims use since Feb. 1, 1920.

Ser. No. 160,107. (CLASS 40. FANCY GOODS, FURNISHINGS AND NOTIONS.) THE AMERICAN FASTENER COMPANY, Waterbury, Conn. Filed Mar. 3, 1922.

WIZARD

Particular description of goods.—Snap Fasteners.
Claims use since 1916.

Ser. No. 160,114. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CROFTS & REED CO., Chicago, Ill. Filed Mar. 3, 1922.

OLIVE BOUQUET

No claim to the word "Olive" apart from the mark shown.
Particular description of goods.—Toilet Soaps.
Claims use since February, 1919.

Ser. No. 160,292. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIMON MARKMAN, New York, N. Y. Filed Mar. 7, 1922.

VITALENE

Particular description of goods.—Shampoo and Hair Wash.
Claims use since Jan. 10, 1922.

Ser. No. 160,303. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) STA-RITE HAIR PIN CO., Shelbyville, Ill. Filed Mar. 7, 1922.

STA-RITE

Particular description of goods.—Hair Pins.
Claims use since 1917.

Ser. No. 160,338. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EUGENE ELLIS CO. INC., New Orleans, La. Filed Mar. 8, 1922.

NOLA SUITING
THE GENUINE IMPORTED FABRIC

No claim made to the exclusive use of words "Suiting" and "The Genuine Imported Fabric" apart from mark shown. The horizontal lining on drawing represents shading.
Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 27, 1922.

Ser. No. 160,346. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOYLAND FLOUR MILLS COMPANY, Kansas City, Mo. Filed Mar. 8, 1922.

Roamer

No claim is made herein to the picture of a buffalo apart from mark shown.
Particular description of goods.—Wheat Flour.
Claims use since about July 15, 1918.

Ser. No. 160,347. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOYLAND FLOUR MILLS COMPANY, Kansas City, Mo. Filed Mar. 8, 1922.

Westerner

Particular description of goods.—Wheat Flour.
Claims use since about July 15, 1918.

Ser. No. 160,349. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOYLAND FLOUR MILLS COMPANY, Kansas City, Mo. Filed Mar. 8, 1922.

Canzas

Lines within panel indicate blue color, lines on the border indicate green.
Particular description of goods.—Wheat Flour.
Claims use since about July 15, 1918.

Ser. No. 160,414. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AUGUST E. KIHN, doing business as Injun Washing Powder, Philadelphia, Pa. Filed Mar. 9, 1922.

INJUN
WASHING POWDER

No claim being made to the words "Washing Powder" apart from mark shown in drawing.
Particular description of goods.—Washing Powder.
Claims use since May 10, 1921.

Ser. No. 160,448. (CLASS 20. BROOMS, BRUSHES, AND DUSTERS.) THE WOOSTER BRUSH COMPANY, Wooster, Ohio. Filed Mar. 9, 1922.

SHASTA

Particular description of goods.—Brushes—Namely, Paintbrushes, Varnish Brushes, Whitewash and Calcimine Brushes, Wall Brushes, Horse Brushes, Hairbrushes, and Flesh Brushes.
Claims use since 1912.

Ser. No. 160,449. (CLASS 20. BROOMS, BRUSHES, AND DUSTERS.) THE WOOSTER BRUSH COMPANY, Wooster, Ohio. Filed Mar. 9, 1922. Under ten-year proviso.

Ohio

Particular description of goods.—Brushes—Namely, Paintbrushes, Varnish Brushes, Whitewash and Calcimine Brushes, Wall Brushes, Horse Brushes, Hairbrushes, and Flesh Brushes.
Claims use since 1880.

Ser. No. 160,460. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

TALCOZONE

Particular description of goods.—Talcum Powder.
Claims use since 1909.

Ser. No. 160,461. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

NUTRIX

Particular description of goods.—Deodorant.
Claims use since 1912.

Ser. No. 160,463. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

BIFF

Particular description of goods.—Hair Remover.
Claims use since 1911.

Ser. No. 160,464. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

ABSORBO

Particular description of goods.—Hair Tonic Relieving Excessive Oil.
Claims use since 1912.

Ser. No. 160,465. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

LILY MILK

Particular description of goods.—Liquid Face Powder.
Claims use since 1909.

Ser. No. 160,467. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

ANTILINE

Particular description of goods.—Preparation for Crow's-Feet.
Claims use since 1909.

Ser. No. 160,468. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

AURA-FOAM

Particular description of goods.—Shampoo.
Claims use since 1908.

Ser. No. 160,469. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

LILIOZONE

Particular description of goods.—Preparation for Chapped Hands.
Claims use since 1910.

Ser. No. 160,470. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

Fairy Fluff

Particular description of goods.—Face Powder.
Claims use since 1914.

Ser. No. 160,471. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

LUSTROZONE

Particular description of goods.—Brilliantine.
Claims use since 1910.

Ser. No. 160,472. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

TROIS FLEURS

Particular description of goods.—Perfume, Toilet Water, Sachets, and Other Toilet Preparations.
Claims use since 1915.

Ser. No. 160,476. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

HERB-OL

Particular description of goods.—Hot Preparation Used in Oil Scalp Treatments.
Claims use since 1914.

Ser. No. 160,478. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

CREMOZONE

Particular description of goods.—Facial Cream.
Claims use since 1908.

Ser. No. 160,499. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) S. LIEBMANNS SONS, INC., New York and Brooklyn, N. Y. Filed Mar. 10, 1922.

G-O-S

Particular description of goods.—A Malt Soft Drink.
Claims use since Oct. 26, 1921.

Ser. No. 160,509. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STIMULE COMPANY, INC., New York, N. Y. Filed Mar. 10, 1922.

Stim-u-Plex

Trade-mark "Stim-u-Plex."
Particular description of goods.—Toilet Powder.
Claims use since Mar. 3, 1922.

Ser. No. 160,510. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STIMULE COMPANY, INC., New York, N. Y. Filed Mar. 10, 1922.

STIM ULES

Trade-mark "Stim ules."
Particular description of goods.—General Tonic in Tablet Form.
Claims use since Mar. 3, 1922.

Ser. No. 160,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STIMULE COMPANY, INC., New York, N. Y. Filed Mar. 10, 1922.

Stimulene

"Stimulene" (Trade-mark).
Particular description of goods.—Toilet Cream.
Claims use since Mar. 3, 1922.

Ser. No. 160,512. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STIMULE COMPANY, INC., New York, N. Y. Filed Mar. 10, 1922.

STIMS

Trade-mark "Stims."
Particular description of goods.—Headache Medicine in Tablet Form.
Claims use since Mar. 3, 1922.

Ser. No. 160,513. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STIMULE COMPANY, INC., New York, N. Y. Filed Mar. 10, 1922.

Stim-u-Lax

Trade-mark "Stim-u-Lax."
Particular description of goods.—Laxative Medicine in Liquid Form.
Claims use since Mar. 3, 1922.

Ser. No. 160,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALICE S. WILDES, doing business as Alys, New York, N. Y. Filed Mar. 10, 1922.

SHEIK

Particular description of goods.—Perfumes.
Claims use since Oct. 3, 1921.

Ser. No. 160,528. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) KAI ANTONSEN, Chicago, Ill. Filed Mar. 11, 1922.

CAROLA

Particular description of goods.—Maltless Soft Drinks and Sirups for Making the Same.
Claims use since Feb. 16, 1922.

Ser. No. 160,558. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed Mar. 11, 1922.

Prize Baby

Particular description of goods.—Safety Pins.
Claims use since Jan. 25, 1922.

Ser. No. 160,559. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed Mar. 11, 1922.

Jiffy

Particular description of goods.—Safety Pins.
Claims use since Jan. 25, 1922.

Ser. No. 160,584. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. B. CULTURE LABORATORY, INC., Yonkers, N. Y. Filed Mar. 13, 1922.

B.A.

Particular description of goods.—Culture of Lactic Bacilli for Medicinal Use in Gastro-Intestinal Disorders, for Diseases Caused by the Absorption or Retention of Morbid Products, and for Local Use in Diseased Cavities.
Claims use since Mar. 7, 1922.

Ser. No. 160,624. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATURAL LIFE FACE BEAUTIFIER COMPANY, St. Louis, Mo. Filed Mar. 13, 1922.

NATURAL Life

Particular description of goods.—Skin Lotion.
Claims use since Sept. 1, 1921.

Ser. No. 160,709. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. KOHNSTAMM & CO., INC., New York, N. Y. Filed Mar. 15, 1922.

ATLAS

Particular description of goods.—Hot and Cold Sour for Laundry Purposes and in Treating Textiles.
Claims use since January, 1921.

Ser. No. 160,714. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) LITTLE GIANT COMPANY, Mankato, Minn. Filed Mar. 15, 1922.

DRAFT-OMETER

Particular description of goods.—Machine for Measuring Weight or Pull.
Claims use since 1916.

Ser. No. 160,734. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILLSON GOGGLES, INC., Reading, Pa. Filed Mar. 15, 1922.

W

Particular description of goods.—Goggles and Protection Glasses.
Claims use since Mar. 6, 1922.

Ser. No. 160,882. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) FREDERICK F. FULTON, doing business as Oiltrol Piston Ring Co., Philadelphia, Pa. Filed Mar. 18, 1922.

OILTROL

No claim to the representation of the piston ring apart from the mark shown.
Particular description of goods.—Piston Rings.
Claims use since Mar. 11, 1922.

Ser. No. 160,972. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE PARTS SERVICE COMPANY, Cleveland, Ohio. Filed Mar. 20, 1922.

Hyklas

Particular description of goods.—Automotive Parts—Namely, Spindle Bolts, Steering Knuckle Bolts, Ringbolts, Tie-Rod Bolts, Spring Bolts, and Nuts.
Claims use since May 25, 1920.

Ser. No. 161,002. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed Mar. 21, 1922.

ENCORE

Particular description of goods.—Writing Paper and Ledger.
Claims use since Jan. 28, 1922.

Ser. No. 161,049. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JAMES A. HAYES, New York, N. Y. Filed Mar. 22, 1922.

FLAPPER

Particular description of goods.—Dolls.
Claims use since Feb. 23, 1922.

Ser. No. 161,085. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

MUSSINI

The name "Mussini" is the name of the Italian painter, deceased 1888.
Particular description of goods.—Artists' Brushes.
Claims use since Jan. 1, 1921.

Ser. No. 161,114. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DIAMOND BRAIDING MILLS, Chicago Heights, Ill. Filed Mar. 23, 1922.



Particular description of goods.—Shoe Laces.
Claims use since Nov. 15, 1921.

Ser. No. 161,120. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ECKENROTH VALVE AND MANUFACTURING CO., Philadelphia, Pa. Filed Mar. 23, 1922.

ECKENROTH

Particular description of goods.—Metallic Valves.
Claims use since Dec. 11, 1920.

Ser. No. 161,147. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) FRED REES, doing business as The Remo Manufacturing Co., Meriden, Conn. Filed Mar. 23, 1922.

Little Cherub

Particular description of goods.—Safety Pins.
Claims use since Jan. 2, 1922.

Ser. No. 161,148. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) FRED REES, doing business as The Remo Manufacturing Co., Meriden, Conn. Filed Mar. 23, 1922.

LITTLE SWEETHEART

Particular description of goods.—Safety Pins.
Claims use since Jan. 2, 1922.

Ser. No. 161,158. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) UNITED MANUFACTURING TRIMMING CO. INC., New York, N. Y. Filed Mar. 23, 1922.



Particular description of goods.—Buttons, Buckles, Girdles, Beads and Spangles Made of a Combination of Matter Resembling Horn, and Trimmings and Ornaments of Said Combination for Dresses, Suits, Coats, and Cloaks.
Claims use since July 28, 1921.

Ser. No. 161,164. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ROYAL ELECTROTYPE COMPANY, Philadelphia, Pa. Filed Mar. 23, 1922.



No claim is made to the exclusive right to the word "Quality" other than in the collocation shown.
Particular description of goods.—Electrotypes of All Kinds, Particularly Lead Process Plates in Copper and Nickel Steel.
Claims use since on or about Apr. 22, 1921.

Ser. No. 161,165. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) S. F. BOWSER & COMPANY, INC., Fort Wayne, Ind. Filed Mar. 24, 1922.

LUBE-STER

Particular description of goods.—Dispensers, and Measuring Pumps and Meters, for Liquid Fuels and Lubricants.
Claims use since Feb. 11, 1922.

Ser. No. 161,204. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MARGARET J. SMITH, doing business as The U Z A Manufacturing Co. (not Inc.), Chicago, Ill. Filed Mar. 24, 1922.

UZA

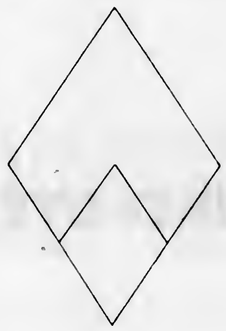
Particular description of goods.—Curtain Holders.
Claims use since Feb. 20, 1922.

Ser. No. 161,205. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SUPERIOR MANUFACTURING CO., Massillon, Ohio. Filed Mar. 24, 1922.

SUPERALU

Particular description of goods.—Aluminum Lipped Saucepans, Convex Saucepans, Pots and Kettles, Saucepans and Kettles (Inset Covers), Bulged Kettles, Saucepans and Pots, Pitchers, Coffeepots, Teapots, Percolators, Heat Retainers, Combined Egg Poachers, Bake Dishes and Deep Fry Pans, Roasters, Teakettles, Dish Pans, Tubed Cake Pans, Strainer-Cover Saucepans and Kettles, Washbasins, Steam Cookers, Dippers, Stewpans, Individual Bean Pots, Square Jelly-Cake Pans, Colanders, Covered Windsor Kettles, Covered Inset Steamers, Lipped Preserving Kettles, Sink Strainers, Pudding Pans, Pie Plates, Ladles, Drinking Cups, Fry Pans, Griddles, Soup Strainers, Bread Pans, Biscuit Pans, Muffin Pans, Double Boilers, Cuspidors, Combination Cookers, Bowls, and Round Jelly-Cake Pans.
Claims use since April, 1919.

Ser. No. 161,218. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WONTSHED BRUSH CO., Troy, N. Y. Filed Mar. 24, 1922.



Particular description of goods.—Shaving Brushes.
Claims use since Feb. 1, 1922.

Ser. No. 161,221. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LTD., New York, N. Y. Filed Mar. 25, 1922.

AMLITE

Particular description of goods.—Powder Consisting of Cellulose Acetate or Cellulose Esters or Cellulose Ethers with other Ingredients and Which is Used in the Manufacture of Moldings or Casings or as a Filling Material.
Claims use since Jan. 31, 1922.

Ser. No. 161,226. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

LIGHTHOUSE

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,227. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

PILOT

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,228. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

CAPSTAN

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,229. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

BINNACLE

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,230. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

ANCHOR

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,231. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

SEARCHLIGHT

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,232. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

RING BUOY

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,276. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CHAS. A. SCHIEREN COMPANY, New York, N. Y. Filed Mar. 25, 1922. Under ten-year proviso.

PLANER-BELT.

Particular description of goods.—Leather Belting.
Claims use since May 22, 1888.

Ser. No. 161,287. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 25, 1922.



Particular description of goods.—Hose Made of Cotton and Rubber and Hose Made of Linen.
Claims use since November, 1919.

Ser. No. 161,289. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SYDNEY B. WERTHEIMER, New York, N. Y. Filed Mar. 25, 1922.

Vanity Fair

Particular description of goods.—Combined Vanity Case and Corsage Shield.
Claims use since Mar. 15, 1922.

Ser. No. 161,468. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOODSTOCK MANUFACTURING CO., INC., Rochester, N. Y. Filed Mar. 29, 1922.

GRO-KAR

Particular description of goods.—Children's Coaster Cars.
Claims use since June 14, 1921.

Ser. No. 161,469. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOODSTOCK MANUFACTURING CO., INC., Rochester, N. Y. Filed Mar. 29, 1922.

DUCKYDOO

Particular description of goods.—Children's Rockers.
Claims use since Mar 14, 1919.

Ser. No. 161,526. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE E. T. BURROWES COMPANY, Portland, Me. Filed Mar. 31, 1922.

LADRET

Particular description of goods.—Short Ladder of the Type Known as Stepladder.
Claims use since Mar. 15, 1922.

Ser. No. 161,734. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE MID WEST GLASS COMPANY, Cincinnati, Ohio. Filed Apr. 4, 1922.

MID-WEST

Particular description of goods.—Fluid Gauges.
Claims use since Mar. 18, 1922.

Ser. No. 161,768. (CLASS 33. GLASSWARE.) R. E. DIETZ COMPANY, New York, N. Y. Filed Apr. 5, 1922.

SCOUT

Particular description of goods.—Glass Globes for Lanterns.
Claims use since about Dec. 1, 1921.

Ser. No. 161,780. (CLASS 37. PAPER AND STATIONERY.) WILLIAM H. INGERSOLL, New York, N. Y. Filed Apr. 5, 1922.

Ingersoll

The mark consists of the fascimile surname signature of the applicant herein.
Particular description of goods.—Pencils.
Claims use since Mar. 24, 1922.

Ser. No. 161,798. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING CO., Danvers, Mass. Filed Apr. 5, 1922.

FEDERAL

Particular description of goods.—Wax and Chalk Crayons.
Claims use since March, 1918.

Ser. No. 161,819. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CARTER MOTOR ACCESSORIES, INC., Buffalo, N. Y. Filed Apr. 6, 1922.

CARTER PRODUCTS

No claim is made to the word "Products" apart from mark shown in drawing.
Particular description of goods.—Oil Gauges.
Claims use since Feb. 17, 1922.

Ser. No. 161,873. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CARDINAL SILK COMPANY, Scranton, Pa. Filed Apr. 7, 1922.



Particular description of goods.—Silk Piece Goods.
Claims use since about Dec. 15, 1921.

Ser. No. 161,901. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SEPT CINEMA CAMERA DISTRIBUTORS, INC., New York, N. Y. Filed Apr. 7, 1922.



Particular description of goods.—Cinema Cameras.
Claims use since Jan. 1, 1922.

Ser. No. 161,917. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COLONY MILLS, INC., New York, N. Y. Filed Apr. 8, 1922.



Particular description of goods.—Cotton Piece Goods and Drapery Fabrics of Cotton, Silk and Cotton, and Silk-Mixture Piece Goods.
Claims use since Dec. 10, 1921.

Ser. No. 161,952. (CLASS 38. PRINTS AND PUBLICATIONS.) WALTER R. ALLMAN, Cleveland, Ohio. Filed Apr. 10, 1922.

THE GREAT AMERICAN HOME

Particular description of goods.—Pictures and Cartoons Published in Newspapers and Magazines.
Claims use since about Jan. 1, 1914.

Ser. No. 162,102. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DENZER & NATHAN, INC., New York, N. Y. Filed Apr. 11, 1922.

PERMAFAST

"Permafast."
Particular description of goods.—Piece Goods Manufactured from Cotton or Other Fiber.
Claims use since Apr. 4, 1922.

Ser. No. 162,138. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SANFORD MILLS, Sanford, Me., and Boston, Mass. Filed Apr. 11, 1922.

MILLAIS

Particular description of goods.—Pile Fabrics Made Wholly or in Part of Hair or Wool.
Claims use since Mar. 3, 1922.

Ser. No. 162,164. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa. Filed Apr. 12, 1922.

MUTUAL

Particular description of goods.—Hooks and Eyes, Hook and Eye Tape, and Safety Pins.
Claims use since June, 1900.

Ser. No. 162,182. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LUDLOW MANUFACTURING ASSOCIATES, Boston, Mass. Filed Apr. 12, 1922.

L F G

Trade-mark "L F G."
Particular description of goods.—Jute Webbing.
Claims use since Dec. 31, 1917.

Ser. No. 162,254. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOCKMEYER BROS., New York, N. Y. Filed Apr. 13, 1922.

TweeDuroy

Trade-mark "Twee Duroy."
Particular description of goods—Cotton Piece Goods—viz, Corduroy.
Claims use since Apr. 5, 1922.

Ser. No. 162,282. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BUFFALO OPTICAL COMPANY, INC., Buffalo, N. Y. Filed Apr. 14, 1922.

Magniwate

Particular description of goods.—Glass Paper Weights Shaped to Form Optical Lenses.
Claims use since Nov. 21, 1921.

Ser. No. 162,335. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GIBBON COMPANY, INC., New York, N. Y. Filed Apr. 15, 1922.

"ETONIA"

Trade-Mark "Etonia."
Particular description of goods.—Cotton Handkerchiefs for Men, Women, Boys, and Children.
Claims use since July 2, 1909.

Ser. No. 162,347. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) J. A. LONG COMPANY, doing business as the Jalco Motor Company, Portland and Union City, Ind. Filed Apr. 15, 1922.

JALCO

Particular description of goods.—Cream Testers.
Claims use since December, 1915.

Ser. No. 162,402. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) L. M. GARRITY & CO., INC., Boston, Mass. Filed Apr. 17, 1922.

WONDERWAVERS

Trade-Mark "Wonderwavers."
Particular description of goods.—Hair Wavers, Hair Curlers, and Hair Crimpers.
Claims use since Jan. 6, 1921.

Ser. No. 162,463. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CHARLES H. SHAPIRO, doing business as the A—B—C Auto Radiator Works, Chicago, Ill. Filed Apr. 17, 1922.

A-B-C

Particular description of goods.—Radiators for Motor Vehicles.
Claims use since Sept. 16, 1920.

Ser. No. 162,477. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO., INC., New York, N. Y. Filed Apr. 18, 1922.

Shaggipu

Particular description of goods.—Pile Fabric in the Piece.
Claims use since Feb. 15, 1922.

Ser. No. 162,480. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Apr. 18, 1922.

Rapmole

Particular description of goods.—Pile Fabric in the Piece.
Claims use since Mar. 1, 1922.

Ser. No. 162,484. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) D. A. NEW COMER COMPANY, Los Angeles, Calif. Filed Apr. 18, 1922.

New Comer

Particular description of goods.—Trailers for Motor Vehicles.
Claims use since Apr. 4, 1919.

Ser. No. 162,491. (CLASS 12. CONSTRUCTION MATERIALS.) ELWOOD JONES, New York, N. Y. Filed Apr. 18, 1922.



Particular description of goods.—Lumber.
Claims use since 1892.

Ser. No. 162,535. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBERT DENELS, doing business as "Robert," New York, N. Y. Filed Apr. 19, 1922.

VIOLINETTE



Particular description of goods.—Hair Nets.
Claims use since Jan. 1, 1922.

Ser. No. 162,576. (CLASS 37. PAPER AND STATIONERY.) ROSE & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

E.H.C.

Particular description of goods.—Tissue Paper Mainly Used for Carbonizing Purposes.
Claims use since Feb. 13, 1905.

Ser. No. 162,577. (CLASS 37. PAPER AND STATIONERY.) ROSE & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

E.M.C.

Particular description of goods.—Tissue Paper Mainly Used for Carbonizing Purposes.
Claims use since Apr. 12, 1906.

Ser. No. 162,578. (CLASS 37. PAPER AND STATIONERY.) ROSE & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

E.S.C.

Particular description of goods.—Tissue Paper Mainly Used for Carbonizing Purposes.
Claims use since Nov. 1, 1904.

Ser. No. 162,583. (CLASS 31. FILTERS AND REFRIGERATORS.) CAROLYN S. SMITH, doing business as the Vitalized Water Process Co., New York, N. Y. Filed Apr. 19, 1922.

VITILOR

Particular description of goods.—Filters.
Claims use since Mar. 30, 1922.

Ser. No. 162,672. (CLASS 37. PAPER AND STATIONERY.) EGGENS-HAMBLER COMPANY, Elizabeth, N. J., and New York, N. Y. Filed Apr. 21, 1922.

EHCO

Particular description of goods.—Fountain Pens, Stylographic Pens and Pencils.
Claims use since Feb. 1, 1922.

Ser. No. 162,697. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ST. JOHN BROTHERS CO., INC., New York, N. Y. Filed Apr. 21, 1922.

SAINTCO

Particular description of goods.—Fabrics Identified as Follows: Piece Dyed Chambray, Piece Dyed Chambray Shorts, Tickings, Piece Dyed Crash, Piece Dyed Crash Shorts, and Piece Dyed Suitings.
Claims use since on or about July 1, 1921.

Ser. No. 162,705. (CLASS 37. PAPER AND STATIONERY.) WEST DISINFECTING COMPANY, New York, N. Y. Filed Apr. 21, 1922.

General

Particular description of goods.—Paper Towels.
Claims use since Sept. 7, 1921.

Ser. No. 162,828. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CHARLES HENRY LANDENBERGER, Philadelphia, Pa. Filed Apr. 24, 1922.

MARVEL

Particular description of goods.—Brooders and Hovers.
Claims use since July, 1915.

Ser. No. 162,855. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SHIPLEY-ALLEN INC., Dover, Del., and Pittsburgh, Pa. Filed Apr. 24, 1922.



No claim is made to words "Returning Oil Ring" or the representation of the goods.
Particular description of goods.—Piston Rings.
Claims use since Dec. 10, 1921.

Ser. No. 162,864. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOLF DOLL CO. INC., New York, N. Y. Filed Apr. 24, 1922.



The representation of the doll is disclaimed apart from mark shown on drawing.

Particular description of goods.—Dolls.

Claims use since Apr. 14, 1922.

Ser. No. 162,906. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) STEWART & HOLMES DRUG CO., Seattle, Wash. Filed Apr. 25, 1922.

Optimus

Particular description of goods.—Combs.

Claims use since Jan. 1, 1908.

Ser. No. 162,947. (CLASS 37. PAPER AND STATIONERY.) OSBORN PAPER COMPANY, Marion, Ind. Filed Apr. 26, 1922.

ROBIN RED BREAST

Particular description of goods.—Writing Tablets, Composition Books, Student Notebooks, Printing and Writing Tablets.

Claims use since 1915.

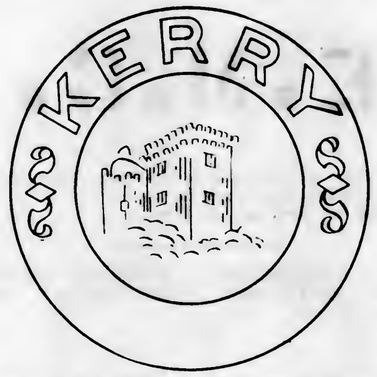
Ser. No. 162,981. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Apr. 27, 1922.

Aero

Particular description of goods.—Pile Fabric in the Piece.

Claims use since Mar. 7, 1922.

Ser. No. 163,061. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WEST POINT MANUFACTURING COMPANY, Langdale, Ala. Filed Apr. 28, 1922.



Particular description of goods.—Crash, Towels, and Toweling.

Claims use since Mar. 24, 1922.

Ser. No. 163,072. (CLASS 37. PAPER AND STATIONERY.) THE ADVERTISER'S ART STUDIOS, INC., Washington, D. C. Filed Apr. 29, 1922.

"Adplus"

Particular description of goods.—Advertising Letter Folders.

Claims use since Jan. 1, 1922.

Ser. No. 163,073. (CLASS 12. CONSTRUCTION MATERIALS.) THE ATLAS PORTLAND CEMENT COMPANY, North Hampton, Pa., and New York, N. Y. Filed Apr. 29, 1922.

ATCEMENT

Particular description of goods.—Stucco.

Claims use since Apr. 8, 1922.

Ser. No. 163,074. (CLASS 12. CONSTRUCTION MATERIALS.) THE ATLAS PORTLAND CEMENT COMPANY, North Hampton, Pa., and New York, N. Y. Filed Apr. 29, 1922.

ATLASITE

Particular description of goods.—Stucco.

Claims use since Apr. 8, 1922.

Ser. No. 163,076. (CLASS 12. CONSTRUCTION MATERIALS.) THE ATLAS PORTLAND CEMENT COMPANY, North Hampton, Pa., and New York, N. Y. Filed Apr. 29, 1922.

ATLASTA

Particular description of goods.—Stucco.

Claims use since Apr. 8, 1922.

Ser. No. 163,079. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Apr. 29, 1922.

Glossyray

Particular description of goods.—Pile Fabrics in the Piece.

Claims use since Mar. 20, 1922.

Ser. No. 163,092. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed Apr. 29, 1922.

SUNRISE

Particular description of goods.—Writing, Printing, and Book Paper.

Claims use since November, 1919.

Ser. No. 163,105. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) OSBORN MILLS, Fall River, Mass. Filed Apr. 29, 1922.

DE LUXE

Particular description of goods.—Cotton Pillow Tubing.

Claims use since Apr. 13, 1922.

Ser. No. 163,119. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. P. STEVENS & CO., New York, N. Y. Filed Apr. 29, 1922.

Cordalure

Particular description of goods.—Woolen Piece Goods.

Claims use since Feb. 8, 1922.

Ser. No. 163,120. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. P. STEVENS & CO., New York, N. Y. Filed Apr. 29, 1922.

Mariano

Particular description of goods.—Woolen Piece Goods.

Claims use since Feb. 8, 1922.

Ser. No. 163,141. (CLASS 38. PRINTS AND PUBLICATIONS.) E. P. DUTTON & CO., New York, N. Y. Filed May 1, 1922.

THE CHILDREN'S HEROES

Particular description of goods.—Printed Books Published in Series.

Claims use since Apr. 9, 1906.

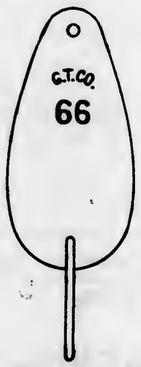
Ser. No. 163,142. (CLASS 38. PRINTS AND PUBLICATIONS.) E. P. DUTTON & CO., New York, N. Y. Filed May 1, 1922.

"TOLD TO THE CHILDREN"

Particular description of goods.—Printed Books Published in Series.

Claims use since Apr. 9, 1906.

Ser. No. 163,150. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GENEVA TACKLE CO., Geneva, N. Y. Filed May 1, 1922.



No claim is made to the representation of a spoon bait apart from mark shown.

Particular description of goods.—Fishing Tackle—Namely, Fishing Spoons.

Claims use since about April, 1917.

Ser. No. 163,204. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed May 1, 1922.



No claim made to representation of a bag aside from its connection with mark. Mark consists of a red band arbitrarily placed at top of bags containing the goods.

Particular description of goods.—Calcined Gypsum Wall Plasters.

Claims use since Mar. 15, 1922.

Ser. No. 163,214. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BELL SYNDICATE, INC., New York, N. Y. Filed May 2, 1922.

ADAMSON'S ADVENTURES

Particular description of goods.—Series of Cartoons.

Claims use since Apr. 17, 1922.

Ser. No. 163,352. (CLASS 38. PRINTS AND PUBLICATIONS.) POSTER ADVERTISING ASSOCIATION, Chicago, Ill. Filed May 4, 1922.

THE POSTER

Particular description of goods.—Monthly Publication.

Claims use since 1910.

Ser. No. 163,448. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KELLEY & CORWIN, New York, N. Y. Filed May 6, 1922.

LITTLE WONDER

Particular description of goods.—Toy Telephones.

Claims use since 1910.

Ser. No. 163,536. (CLASS 38. PRINTS AND PUBLICATIONS.) PURCHASING AGENTS ASSOCIATION OF WESTERN MASSACHUSETTS, Springfield, Mass. Filed May 8, 1922.

BUY-BETTER BULLETIN

Particular description of goods.—Periodical Published Monthly.

Claims use since May, 1921.

Ser. No. 164,096. (CLASS 38. PRINTS AND PUBLICATIONS.) BINDER BROTHERS, INC., New York, N. Y. Filed May 19, 1922.

The Link

Particular description of goods.—Monthly Publications.

Claims use since May 15, 1921.

Ser. No. 164,125. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & CO., New York, N. Y. Filed May 19, 1922.

SUPREME

Particular description of goods.—Snapping Mottoes.

Claims use since December, 1921

Ser. No. 164,126. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & CO., New York, N. Y. Filed May 19, 1922.

DANDY

Particular description of goods.—Snapping Mottoes.

Claims use since May 1, 1922.

Ser. No. 164,526. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed May 25, 1922.

RADIO

Particular description of goods.—Playing Cards.

Claims use since Apr. 14, 1922.

Ser. No. 164,611. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. CO., Burr Oak, Mich. Filed May 27, 1922.

Speed King

Particular description of goods.—Coaster Wagons.

Claims use since May, 1920.

Ser. No. 164,612. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. CO., Burr Oak, Mich. Filed May 27, 1922.

DIXIE FLYER

Particular description of goods.—Coaster Wagons.

Claims use since May, 1920.

Ser. No. 164,613. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. CO., Burr Oak, Mich. Filed May 27, 1922.

SHEFFIELD GREYHOUND

Particular description of goods.—Coaster Wagons.

Claims use since May, 1920.

Ser. No. 164,614. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. CO., Burr Oak, Mich. Filed May 27, 1922.

DARTAWAY

Particular description of goods.—Hand Sleds.

Claims use since May, 1920.

Ser. No. 164,615. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. CO., Burr Oak, Mich. Filed May 27, 1922.

Lightning Express

Particular description of goods.—Coaster Wagons.

Claims use since May, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 4, 1922.

156,580. REFRIGERATING SYSTEMS AND PARTS THEREOF. THE AUTOMATIC REFRIGERATING CO., Hartford, Conn.
Filed February 17, 1922. Serial No. 159,453. PUBLISHED MARCH 21, 1922.

156,581. REFRIGERATORS. COLDAK COMPANY, Springfield, Mass.
Filed February 13, 1922. Serial No. 159,245. PUBLISHED MARCH 21, 1922.

156,582. FOUNTAIN PENS AND LEAD PENCILS. THE DICTATOR FOUNTAIN PEN COMPANY, INC., New York, N. Y.
Filed February 13, 1922. Serial No. 159,249. PUBLISHED MARCH 21, 1922.

156,583. CERTAIN NAMED TERRY-CLOTH PIECE GOODS, CLOTH TOWELS, WASH RAGS, TEXTILE MATS, AND TEXTILE BATHROOM RUGS. HOHLFELD MANUFACTURING COMPANY, Philadelphia, Pa.
Filed December 7, 1921. Serial No. 156,385. PUBLISHED MARCH 7, 1922.

156,584. RIFLES AND SHOTGUNS. THE MARLIN FIREARMS CORPORATION, New Haven, Conn.
Filed December 7, 1921. Serial No. 156,398. PUBLISHED MARCH 28, 1922.

156,585. COTTON, SILK, AND LINEN GOODS AND MIXTURES OF COTTON AND SILK AND LINEN AND SILK IN THE PIECE. JACOB MILLER SONS & Co., Philadelphia, Pa.
Filed December 12, 1921. Serial No. 156,587. PUBLISHED MARCH 21, 1922.

156,586. SILK IN THE PIECE. MUSER BROTHERS, New York, N. Y.
Filed December 17, 1921. Serial No. 156,842. PUBLISHED MARCH 7, 1922.

156,587. MEMORANDUM DEVICES. ARTHUR M. WATTERSON, Omaha, Nebr.
Filed January 30, 1922. Serial No. 158,662. PUBLISHED MARCH 21, 1922.

156,588. HAIR NETS. CHAS. WOLTON, New York, N. Y.
Filed January 26, 1922. Serial No. 158,499. PUBLISHED MARCH 28, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JULY 4, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

156,589. (CLASS 12. CONSTRUCTION MATERIALS.) CRESCENT REFRACTORIES COMPANY, Curwensville, Pa. Filed Oct. 3, 1918. Serial No. 113,550.

B R 2

Particular description of goods.—Fire Brick and Tile Manufactured from Fire Clay for Metallurgical Furnaces.
Claims use since November, 1900.

156,590. (CLASS 12. CONSTRUCTION MATERIALS.) CRESCENT REFRACTORIES COMPANY, Curwensville, Pa. Filed Oct. 3, 1918. Serial No. 113,552.

JUNIATA SL1

Particular description of goods.—Fire Brick and Tile Manufactured from Fire Clay for Metallurgical Furnaces.
Claims use since January, 1903.

156,591. (CLASS 12. CONSTRUCTION MATERIALS.) CRESCENT REFRACTORIES COMPANY, Curwensville, Pa. Filed Oct. 3, 1918. Serial No. 113,553.

JUNIATA SL 2

Particular description of goods.—Fire Brick and Tile Manufactured from Fire Clay for Metallurgical Furnaces.
Claims use since January, 1903.

156,592. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ECLIPSE LIGHT COMPANY, New York, N. Y., assignor to London Lightingwares Corporation, a Corporation of New York. Filed Aug. 25, 1921. Serial No. 152,166.

LIGHTINGWARES

Particular description of goods.—Electric Fixtures—Namely, Chandeliers, Wall Brackets, Table Lamps, Lanterns, Boudoir Lamps, Floor Lamps, Electroliers, Illuminators, Ceiling Lights, Pendant Lights, Shower Lights, Direct, Indirect, and Semi-Indirect Lights, Arc Lamps, and Fuses; Electric Bells, Batteries, Switches, Sockets, Plugs, Flash Lights; Electric Toasters, Electric Grills, Electric Percolators, and Electric Curling Irons.
Claims use since July 1, 1920.

156,593. (CLASS 32. FURNITURE AND UPHOLSTERY.) GANGELHOFF BROS., Minneapolis, Minn. Filed Sept. 19, 1921. Serial No. 153,085.

THE GANGELHOFF SEMI-SAG SPRING GANGELHOFF BROS. MINNEAPOLIS, MINN.

Particular description of goods.—Bed Springs.
Claims use since Oct. 28, 1916.

156,594. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE GOETZE GASKET AND PACKING COMPANY, North New Brunswick, N. J. Filed Jan. 31, 1921. Serial No. 142,971.

GOETZE

Particular description of goods.—Machinery Packing of Metal and Asbestos.
Claims use during and since year 1904.

156,595. (CLASS 27. HOROLOGICAL INSTRUMENTS.) STEPHEN R. HOFFMAN, Brooklyn, N. Y. Filed Jan. 30, 1922. Serial No. 158,615.

HALLWATCH

Particular description of goods.—Watches, Dials, Movements and Parts Thereof, and Watchcases.
Claims use since 1918.

156,596. (CLASS 27. HOROLOGICAL INSTRUMENTS.) KEYLESS AUTO CLOCK COMPANY, New York, N. Y. Filed Apr. 3, 1922. Serial No. 161,686.

PHINNEY-WALKER

Particular description of goods.—Clocks.
Claims use since 1910.

156,597. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LUDWIG & LUDWIG, Chicago, Ill. Filed June 6, 1921. Serial No. 148,744.

LUDWIG

Particular description of goods.—Musical, Various Sound-Emitting and Percussion Instruments, Parts Thereof and Attachments Therefor, as Follows: Drums, Drummers' Traps, Tympanies, Xylophones, Bells, Tom-Toms, Cymbals, Pedals, Whistles, Tambourines, Rattles, Castanets, Triangles, Horns, Shot Cushions, Clog Mallets, Horse Trot Imitations, Tympani Heads, Banjo Heads, Tambourine Heads, Drumheads, Tone Blocks, Wood Blocks, Spurs, Cymbal Holders, Traps, Rooters, Reed Imitations, Drum Stands, Sand Blocks, Shooting Machines, Railroad Imitations, Cymbal Holders, Slings (Drum), Drum Rods, Practice Pads, Typewriter or Telegraph Imitation, Sticks (Drum and Tympani), Hammers (Bell and Xylophone), Stands (Bell).
Claims use since July 1, 1909.

156,598. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) O. B. MCCLINTOCK COMPANY, Minneapolis, Minn. Filed Feb. 6, 1922. Serial No. 158,939.

THE OUTWARD SIGN OF INWARD SECURITY

Particular description of goods.—Electric Burglar Alarms and Housings, Timer Cases, and Relays Therefor.
Claims use since on or about Apr. 1, 1921.

156,599. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed June 11, 1921. Serial No. 149,022.

EVEREADY SPOTLIGHT

Particular description of goods.—Portable Electric Lights and Dry Batteries.
Claims use since Apr. 18, 1921.

156,600. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PADUA "HOLD-UP" ALARM CORPORATION, Albany, N. Y. Filed Nov. 5, 1920. Serial No. 139,222.

PADUA

Particular description of goods.—Hold-Up Alarms.
Claims use since Jan. 10, 1920.

156,601. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RELIABLE ELECTRIC COMPANY, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 137,892.

Reliable

Particular description of goods.—Electrical Supplies—Namely, Copper Sleeves, Double-Tube Tinned Steel Sleeves; Single-Tube, Split, and Tinned Copper Cable Sleeves; Paper Sleeves, Cable Hangers, Cable Terminals, Cable-Insulating Compound; Tubular, Mica, Glass, and Fiber Fuses; Fuse Wire, Lightning Arresters, and Fuse Blocks; Light Arms, Protector Strips, Baby Knife Switches, Railroad Telephone Switches, Terminal Blocks, and Test Connectors.
Claims use since Jan. 1, 1910.

156,602. (CLASS 17. TOBACCO PRODUCTS.) THE TUCKETT TOBACCO COMPANY, LIMITED, Hamilton, London, and Montreal, Canada. Filed Mar. 5, 1921. Serial No. 144,359.

ORINOCO

Particular description of goods.—Smoking Tobacco, Cigars, and Cigarettes.
Claims use since Jan. 15, 1895.

156,603. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE TRUMBULL-VANDERPOEL ELECTRIC MANUFACTURING CO., Bantam, Conn. Filed Jan. 5, 1922. Serial No. 157,541.

MASON SAFETY SWITCH

Particular description of goods.—Electric Safety Switches.
Claims use since June 1, 1920.

156,604. (CLASS 12. CONSTRUCTION MATERIALS.) CLIFFORD G. WOOLSON, Newark, N. J., and New York, N. Y. Filed Apr. 6, 1922. Serial No. 161,868.

E-Z-SET

Particular description of goods.—Sectional Burned-Clay Pipe Covering for Exposed Piping of All Kinds.
Claims use since June 20, 1916.

TRADE-MARK REGISTRATIONS RENEWED.

20,563. ROOFING TIN. Registered January 5, 1892. N. & G. TAYLOR CO., Philadelphia, Pa.; N. & G. Taylor Co., Incorporated, a Corporation of Maryland, assignee. Renewed January 5, 1922.

20,890. EYE LOTION. Registered March 22, 1892. SASSAFRAS EYE LOTION CO., Mauch Chunk, Pa. Renewed March 22, 1922.

20,919. VARNISHES. Registered March 29, 1892. GEORGE L. WOOD & SON, Brooklyn and New York, N. Y.; Imperial Paint Company, assignee. Renewed March 29, 1922.

21,004. LAGER BEER. Registered April 19, 1892. THE F. & M. SCHAEFER BREWING CO., New York, N. Y. Renewed April 19, 1922.

21,221. STATIONARY AND LOCOMOTIVE INJECTORS AND EJECTORS. Registered May 31, 1892. THE HAYDEN & DERBY MFG. COMPANY, New York, N. Y.; Manning, Maxwell & Moore, Inc., a Corporation of New Jersey, assignee Renewed May 31, 1922.

21,224. REFINED PETROLEUM FOR INTERNAL AND EXTERNAL USE AS A REMEDY FOR DISEASE. Registered May 31, 1892. ANGIER CHEMICAL COMPANY, Boston, Mass. Renewed May 31, 1922.

21,359. NIGHT ROBES. Registered June 28, 1892. E. ROSENFELD & Co., Baltimore, Md. Renewed June 28, 1922.

21,733. DENTIFRICE. Registered September 13, 1892. FLORENCE MANUFACTURING COMPANY, Northampton, Mass.; New York, N. Y., and Chicago, Ill.; Frank N. Look, Wil[illegible] trustees and their successors, doing business as the Florence Manufacturing Company, assignees. Renewed Sept. 13, 1922.

21,734. LIQUORS AND CORDIALS. Registered September 13, 1892. GORDON & Co., London, England. Gordon's Dry Gin Co. Limited, assignee. Renewed September 13, 1922.

21,933. PRINTERS' AND LITHOGRAPHERS' INK. Registered November 8, 1892. THE AULT WIBORG COMPANY, Cincinnati, Ohio. Renewed November 8, 1922.

LABELS

REGISTERED JULY 4, 1922.

24,612.—*Title:* "SELECT." (For Canned Vegetables—Namely, Tomatoes.) ANDERSON & NELSON, Brocton, Mass. Filed April 5, 1922.

24,613.—*Title:* "ARLE'S VICTORY POLISH." (For a Polish Which can be Used on Automobiles, Furniture, and Other Articles.) JOSEPH ARLE, Two Rivers, Wis. Filed November 7, 1921.

24,614.—*Title:* "COEUR DE VIOLETTE." (For Toilet Soap.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

24,615.—*Title:* "DEPILATORY." (For Preparation for Removing Hair.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

24,616.—*Title:* "DEPILATORY." (For Preparation for Removing Hair.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

24,617.—*Title:* "COEUR DE VIOLETTE." (For Toilet Soap.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

24,618.—*Title:* "BRILLIANTINE." (For Hair Preparations.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

24,619.—*Title:* "COMPLEXION BALM." (For a Lotion for Beautifying the Skin.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

24,620.—*Title:* "PRINCESS CHARMING." (For Perfume, Toilet Water, Face Powder, and Talcum Powder.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

24,621.—*Title:* "BEISTLE'S HALLOWE'EN HATS." (For Packages Containing Hallowe'en Hats.) THE BEISTLE COMPANY, Shippensburg, Pa. Filed April 8, 1922.

24,622.—*Title:* "HALLOWE'EN PARTY TABLE DECORATIONS." (For Packages Containing Table Decorations for a Hallowe'en Party.) THE BEISTLE COMPANY, Shippensburg, Pa. Filed April 8, 1922.

24,623.—*Title:* "BEISTLE'S HALLOWE'EN HATS." (For Packages Containing Hallowe'en Hats.) THE BEISTLE COMPANY, Shippensburg, Pa. Filed April 8, 1922.

24,624.—*Title:* "BEISTLE'S HALLOWE'EN HAT MASKS." (For a Package of Hat Masks.) THE BEISTLE COMPANY, Shippensburg, Pa. Filed April 8, 1922.

24,625.—*Title:* "BEISTLE'S—CHRISTMAS DECORATIONS FOR THE HOME." (For a Package of Christmas Decorations.) THE BEISTLE COMPANY, Shippensburg, Pa. Filed April 8, 1922.

24,626.—*Title:* "FIRE-CHIEF THE INFALLIBLE FIRE EXTINGUISHER." (For a Jar of Fire-Extinguisher Liquid.) BENSON PRODUCTS Co., New Rochelle, N. Y. Filed May 27, 1922.

24,627.—*Title:* "MONUMENT WRITING FLUID." (For Inks Known as Writing and Copying Fluid.) A. A. BROSHEARS, Indianapolis, Ind., doing business as the Monument Ink Company. Filed May 6, 1922.

24,628.—*Title:* "CERTIFIED." (For Olives.) CALIFORNIA OLIVE ASSOCIATION, Los Angeles, Calif. Filed April 10, 1922.

24,629.—*Title:* "THE COUNTRY GENTLEMAN HANDKERCHIEF." (For Boxes Containing Handkerchiefs.) THOMAS CARTER & SONS, INC., New York, N. Y. Filed April 28, 1922.

24,630.—*Title:* "LADY ESTHER FOUR PURPOSE CREAM." (For Face Cream.) SYMA COHEN, Chicago, Ill. Filed April 28, 1922.

24,631.—*Title:* "THE CHILDRENS SHOE WORKERS' UNION OF NEW YORK STATE." (For Children's Shoes.) THE CHILDRENS SHOE WORKERS' UNION OF NEW YORK STATE, New York, N. Y. Filed May 9, 1922.

24,632.—*Title:* "WALNETTOS." (For Candy—Namely, Caramels.) J. N. COLLINS COMPANY, Minneapolis, Minn. Filed March 2, 1922.

24,633.—*Title:* "WALNETTOS." (For Candy—Namely, Caramels.) J. N. COLLINS COMPANY, Minneapolis, Minn. Filed March 6, 1922.

24,634.—*Title:* "HAPPY DAYS." (For a Beverage.) THE CROWN BREWING CO. INC., Cincinnati, Ohio. Filed April 10, 1922.

24,635.—*Title:* "DELICO DIPS." (For Chocolate-Coated Frozen Confections.) DELICO PRODUCTS COMPANY, Sheridan, Wyo. Filed May 25, 1922.

24,636.—*Title:* "ADMIRATION." (For Envelopes Containing Hair Nets.) THE B. FRANKEL CO., New York, N. Y. Filed May 27, 1921.

24,637.—*Title:* "FENWAY." (For Envelopes Containing Hair Nets.) THE B. FRANKEL CO., New York, N. Y. Filed May 27, 1921.

24,638.—*Title:* "YANKEE GIRL." (For Envelopes Containing Hair Nets.) THE B. FRANKEL COMPANY, New York, N. Y. Filed May 27, 1921.

24,639.—*Title:* "PEGGY." (For Envelopes Containing Hair Nets.) THE B. FRANKEL COMPANY, New York, N. Y. Filed May 27, 1921.

24,640.—*Title:* "LION BRAND." (For Envelopes Containing Hair Nets.) THE B. FRANKEL COMPANY, New York, N. Y. Filed May 27, 1921.

24,641.—*Title:* "FIREFLY." (For Envelopes Containing Hair Nets.) THE B. FRANKEL COMPANY, New York, N. Y. Filed June 4, 1921.

24,642.—*Title:* "'HONEY-LIKE' COCOANUT SHOWERS." (For Candy and Confections.) FROZEN FRUIT INC., Harrisburg, Pa. Filed June 1, 1922.

24,643.—*Title:* "COCOANUT SHOWERS 'HONEY-LIKE.'" (For Candy and Confections.) FROZEN FRUIT, INC., Harrisburg, Pa. Filed June 1, 1922.

24,644.—*Title:* "THE IRIS HAIR NET." (For Hair-Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.

24,645.—*Title:* "KISMET HAIR NET." (For Hair Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.

24,646.—*Title:* "SWANNETTE HAIR NET." (For Hair Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.

24,647.—*Title:* "PUNCHER DE LUXE." (For Boxes Containing Cigars.) S. GOLDBERG & COMPANY, Newark, N. J. Filed April 7, 1922.

24,648.—*Title:* "SATISFACTION." (For Eggs.) GREEN & COMPANY, Chicago, Ill. Filed May 22, 1922.

24,649.—*Title:* "LASTING LUSTRO THE PERFECT POLISH." (For Autos, Furniture, Leather, Pianos, Victrolas, Etc., as a Cleaning and Polishing Compound.) H. R. F. Co., San Francisco, Calif. Filed May 23, 1922.

24,650.—*Title:* "O. K. ETO CRISPS." (For Health Wafers. JERN FOOD COMPANY, College View, Nebr. Filed May 26, 1922.

24,651.—*Title:* "CHOICE BOX." (For Packages of Confectionery.) ROBERT A. JOHNSTONE COMPANY, Milwaukee, Wis. Filed April 14, 1922.

24,652.—*Title:* "MILE-A-MINUTE." (For Carbon Remover and Preventer.) MILE-A-MINUTE, INCORPORATED, Pittsburgh, Pa. Filed March 19, 1921.

24,653.—*Title:* "M. M. R'S RED SEAL HAIR NET." (For Hair Nets.) MORRIS, MANN & REILLY, INC., Chicago, Ill. Filed May 22, 1922.

24,654.—*Title:* "SELBY'S FLEUR KISS CHEWING GUM." (For Packages Containing Chewing Gum.) NATIONAL PEPSIN GUM CO., San Francisco, Calif. Filed April 24, 1922.

24,655.—*Title:* "P S G Co. STOVE GLOSS." (For a Stove Gloss Preparation.) JACOB L. NEKRITZ, Brooklyn, N. Y. Filed March 7, 1922.

24,656.—*Title:* "THOROBREAD." (For Bread.) NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J.; Columbus, Ohio, and New York, N. Y. Filed January 31, 1922.

24,657.—*Title:* "VIT-A-MINE LINE FOODS." (For Vit-A-Mine Line Foods.) T. J. NEWBILL, La Grange, Ill. Filed January 16, 1922.

24,658.—*Title:* "RED POPPY." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.

24,659.—*Title:* "YELLOW BIRD." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.

24,660.—*Title:* "NORTHERN CABINET TISSUE." (For a Wrapper for Packages of Toilet Paper.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.

24,661.—*Title:* "GREEN LEAF." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.

24,662.—*Title:* "NORTHERN BEAR." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.

24,663.—*Title:* "BONNIE" (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.

24,664.—*Title:* "PURPLE FEATHER." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis Filed May 25, 1922.

24,665.—*Title:* "DRYTEX." (For a Wrapper for Folded Paper Towels.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.

24,666.—*Title:* "INDIAN CORN CANDY." (For Butter Cream Confections—Namely, Indian Corn Candy.) THE NUSS CONFECTIONERY COMPANY, Cincinnati, Ohio. Filed March 4, 1922.

24,667.—*Title:* "ASP-RIN-LAX." (For Cold Tablets.) OMEZ PHARMACAL CO., Denver, Colo. Filed February 6, 1922.

24,668.—*Title:* "VIRGINIA MOUNTAIN PEACHES MAD RUN BRAND." (For Packages Containing Peaches.) J. A. O'NEILL, Crozet, Va. Filed March 10, 1922.

24,669.—*Title:* "THE CHERTOK-BODAK HAIR SAVER." (For a 4-Oz. Bottle of Vegetable and Root Compound (Liquid) for the Treatment of Hair and Scalp.) OSCAR HAIR RESTORING COMPANY, Scranton, Pa. Filed May 22, 1922.

24,670.—*Title:* "PARASILK." (For Toilet Paper.) PAPER SPECIALTY COMPANY, Wausau, Wis. Filed January 16, 1922.

24,671.—*Title:* "PEN-JEL." (For a Powdered Substance Consisting of Pectin and Acidified Sugar, a Quick Jelly-Making Material.) PENNSYLVANIA SUGAR COMPANY, Philadelphia, Pa. Filed May 17, 1922.

24,672.—*Title:* "PLAY BALL." (For Games.) IRVING PRINCE, New York, N. Y,. doing business as Play Ball Manufacturing Company, New York, N. Y. Filed May 29, 1922.

24,673.—*Title:* "REALGOOD." (For Hosiery.) THE REALGOOD CORPORATION, Atlanta, Ga. Filed April 10, 1922.

24,674.—*Title:* "REALGOOD." (For Hosiery.) THE REALGOOD CORPORATION, Atlanta, Ga. Filed April 19, 1922.

24,675.—*Title:* "BROWNIE KRUST." (For Bread.) HENRY J. REGUS, New Orleans, La. Filed June 1, 1922.

24,676.—*Title:* "GOLDEN GLOW BUTTER." (For Butter.) RIDDLE-MCELWAIN CO., Sabinal, Tex. Filed May 24, 1922.

24,677.—*Title:* "HA-LO ANTISEPTIC CYLINDERS ANTISEPTIC, HEALING, DEODORANT, PROPHYLACTIC." (For Medicinal Preparation for Female Diseases.) LOUIS C. ROHLFING, St. Louis, Mo., doing business as the Ap-Pel-Line Medicine Company. Filed May 1, 1922.

24,678.—*Title:* "SANO." (For a Rheumatic Remedy and System Tonic.) SANO REMEDY COMPANY, Cleveland, Ohio. Filed March 18, 1922.

24,679.—*Title:* "SAVEM." (For a Container for a Compound Used for the Treatment of Fabrics After the Same Have Been Washed.) SAVEM ECONOMY PRODUCTS CO., East Boston, Mass. Filed August 18, 1921.

24,680.—*Title:* "SAVEM." (For a Container for a Compound Used for the Treatment of Fabrics After the Same Have Been Washed.) SAVEM ECONOMY PRODUCTS CO., East Boston, Mass. Filed August 18, 1921.

24,681.—*Title:* "CHOCOLATE PIE. (For Candy.) SCHALL'S INC., Clinton, Iowa. Filed April 22, 1922.

24,682.—*Title:* "DR. SCHWIND'S ROSE HEALING SALVE." (For Salve.) THE SCHWIND LABORATORY, Le Mars, Iowa. Filed June 7, 1921.

24,683.—*Title:* "EL FANI." (For Boxes Containing Cigars.) SCLAFANI & SONS, New York, N. Y. Filed November 15, 1921.

24,684.—*Title:* "STYLA." (For Boxes Containing Hosiery.) FELIX SIMMONS, Worcester, Mass., doing business as Styla Silk Hosiery Co., Worcester, Mass. Filed April 14, 1922.

24,685.—*Title:* "SWEETIE." (For Oranges.) L. K. SMALL COMPANY, Los Angeles, Calif. Filed March 23, 1922.

24,686.—*Title:* "STACOMB." (For Hair Pomade.) STANDARD LABORATORIES, INC., Los Angeles, Calif. Filed October 20, 1921.

24,687.—*Title:* "JANE DREW." (For Candies.) L. R. STEEL COMPANY, INC., Buffalo, N. Y. Filed February 28, 1921.

24,688.—*Title:* "SWEET'S LADY CLAIRE CHOCOLATES." (For Chocolates.) SWEET CANDY COMPANY, Salt Lake City, Utah. Filed December 11, 1920.

24,689.—*Title:* WAFER-LAX." (For a Carton Which Contains a Bottle with an Average of Thirty-Two Wafers Contained Therein.) THE WILLIAM H. SWEET COMPANY, Columbus, Ohio. Filed November 22, 1921.

24,690.—*Title:* "CYCLONE CLEANER." (For a Cleaning Compound.) THOMAS A. THEARD, Indianapolis, Ind. Filed April 12, 1922.

24,691.—*Title:* "VIRDEN'S THRIFT." (For Cooked Corn Beef.) VIRDEN PACKING COMPANY, South San Francisco, Calif. Filed May 22, 1922.

24,692.—*Title:* "LADY JANE." (For Hair Nets.) M. WAHL & SON, New York, N. Y. Filed June 15, 1921.

24,693.—*Title:* "HUSKY GRAHAM BREAD." (For Bread.) M. ZINSMASTER, Des Moines, Iowa. Filed May 26, 1922.

PRINTS

REGISTERED JULY 4, 1922.

6,195.—*Title:* "PIANOS! PIANOS!" (For Advertising Purposes for Pianos.) BOSTON PIANO CO., Chicago, Ill. Filed May 6, 1922.

6,196.—*Title:* "FACTORY PIANOS." (For Advertising Purposes for Pianos.) BOSTON PIANO CO., Chicago, Ill. Filed May 6, 1922.

6,197.—*Title:* "ALTERATION PIANO SALE." (For Advertising Purposes for Pianos.) BOSTON PIANO CO., Chicago, Ill. Filed May 25, 1922.

6,198.—*Title:* "JIFFE." (For Advertising Purposes for Nail Polish.) GRACE D. EARL, Chicago, Ill. Filed April 22, 1922.

6,199.—*Title:* "THE ESTEY RESIDENCE PIPE ORGAN." (For Advertising Purposes for The Estey Residence Pipe Organ.) ESTEY ORGAN CO., Brattleboro, Vt. Filed May 27, 1922.

6,200.—*Title:* "THE NEW IMPROVED SEVEN PASSENGER HAYNES 75 TOURING CAR." (For Advertising Purposes for Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed June 2, 1922.

6,201.—*Title:* "MAKE ALL FIGURING AS EASY AS TURNING THE CRANK." (For Advertising Purposes for Monroe Calculating Machines.) MONROE CALCULATING MACHINE CO., New York, N. Y. Filed February 24, 1921.

6,202.—*Title:* "BEAUTY BROWS." (For Advertising Purposes for Eyeglasses and Spectacles.) FRANK G. MURPHY, Mason City, Iowa. Filed March 27, 1922.

6,203.—*Title:* "ELDORADO BRAND TYPEWRITER RIBBONS NON-FILLING AND DURABLE." (For Advertising Purposes for Eldorado Typewriter Ribbons. THE NATIONAL PAPER & TYPE CO., New York, N. Y. Filed April 12, 1922.

6,204.—*Title:* "MACKSI MUM." (For Advertising Purposes for Shirts.) RAUH & MACK SHIRT CO., Cincinnati, Ohio. Filed December 30, 1921.

6,205.—*Title:* "POLAR PATTIES." (For Advertising Purposes for a Confection Comprising Ice Cream as a Principal Ingredient.) WILLIAM W. SAXE, Boston, Mass. Filed April 19, 1922.

6,206.—*Title:* "'JIFFY' FOLDING CARD TABLE DE LUXE." (For Advertising Purposes for Folding Card Tables.) STEINFELD BROS., New York, N. Y. Filed June 9, 1921.

6,207.—*Title:* "PIANO SALE." (For Advertising Purposes for Pianos.) UNION PIANO CO., Chicago, Ill. Filed May 6, 1922.

6,208.—*Title:* "PIANO SALE." (For Advertising Purposes for Pianos.) UNION PIANO CO., Chicago, Ill. Filed May 6, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

EX PARTE DUNBAR.

No. 1399. Decided February 6, 1922.

PATENTS—ASSIGNEE OF TWO APPLICATIONS IS BOUND BY ELECTION.

Where two applicants each assigned their copending applications to the same assignee by an assignment which left no interest in the applicant, the election of the assignee to take the patent on one application, which contained narrow claims reading on the disclosure in the other application, is binding on him and precludes his right to issuance of a patent on the other application, containing broader claims covering the same features.

Mr. Curtis B. Camp and *Mr. C. C. Bradbury* for Dunbar.

Mr. T. A. Hostetler for the Commissioner of Patents.

VAN ORSDEL, *J.*:

Appellant Dunbar filed the present application for patent October 9, 1905. One Dyson filed a copending application March 19, 1906, on which a patent was issued December 12, 1916. Both applicants assigned to Kellogg Switchboard and Supply Company, and both applications have been prosecuted through the Patent Office by the same attorneys.

It is unnecessary to consider the mechanism or the line of division between the Dunbar and Dyson claims, or the right of the common assignee to disclaim the invention of the claims in the Dyson patent, since this appeal turns upon a question of law. The Dyson application, which went to patent, contained certain narrow claims which would read upon the earlier application of Dunbar. Dunbar has broad claims covering the same features of the invention, and he is here insisting upon the allowance of his claims.

The tribunals below recognize the dilemma in which Dunbar finds himself, and the Commissioner in his opinion states the grounds upon which relief was refused, as follows:

> By taking out the Dyson patent, an election was made on the question of priority between Dyson and Dunbar, and the common assignee is just as much bound by that election as if an interference had been declared and priority decided in favor of Dyson. The reason for the rule holding that interferences will not be declared between co-assignors is that the presentation of the testimony on behalf of each assignor is in control of the common assignee, and that there are, therefore, no parties having adverse interests. If an assignee is to be allowed, after having made such election and taken out the patent, to repudiate the election and present the claims in another application, monopoly would obviously be extended.

The record is silent as to the nature of the assignment from Dunbar to the Kellogg Company. In this situation we must assume that the assignment was absolute and conveyed all the right, title, interest, and claim in the patent to the assignee. Dunbar has, therefore, no interest left in the invention which he can now assert. The case resolves itself into the right of the assignee to a patent upon the present Dunbar claims. To grant these claims to the assignee, after the assignee, by its own election, had accepted the Dyson patent, would be, as held by the Commissioner, a clear extension of the monopoly. If the assignment from Dunbar to the Kellogg Company was a conditional one whereby Dunbar would be prejudiced by the election of the assignee to accept the Dyson patent, a different question might be presented, but in the state of the record Dunbar has no interest left upon which he can personally claim protection.

The decision of the Commissioner of Patents is affirmed.

In the absence of Mr. Justice Robb, Mr. Justice Hitz of the Supreme Court of the District of Columbia participated in the hearing and disposition of this case.

Court of Appeals of the District of Columbia.

ELDRED *v.* FINK AND YUNCK. YUNCK *v.* ELDRED AND FINK.

Nos. 1474 and 1475. Decided March 6, 1922.

1. PATENTS—SPECIFICATION IN PRIOR PATENT HELD CONSTRUCTIVE REDUCTION TO PRACTICE OF COUNTS IN INTERFERENCE.

Where a specification in a prior patent issued to one of the parties in interference proceedings, describing a composite wire for incandescent electric lamps composed of a core of nickel steel and a copper sheath covered with a platinum coating, and where there was evidence that the wire had been successfully used without the platinum coating in 60 per cent of the lamps so made, and expressly reserved the right to file an application covering such wire, *Held* that this was a sufficient reduction to practice of the counts in an interference covering a similar wire without the platinum coating.

2. SAME—NECESSITY OF FURTHER EXPERIMENTS WHICH CAN BE PERFORMED BY THOSE SKILLED IN THE ART DOES NOT INVALIDATE REDUCTION TO PRACTICE.

A specification in an application for patent, which describes the counts in issue in subsequent interference

proceedings, is not invalidated as a reduction to practice by the fact that further experiments were necessary to make the invention successful, where such experiments could have been conducted by those skilled in the art from the description in the specification.

Mr. A. Parker Smith for Yunck.

Mr. C. J. Sawyer for Eldred.

Mr. Hubert Howson and *Mr. A. G. Davis* for Fink.

ROBB, *J.*:

These are appeals from a Patent Office decision in interference proceedings involving a composite leading-in wire for incandescent electric lamps. The claims are ten in number, but the first and tenth, here reproduced, will be sufficiently illustrative:

1. A composite low expansion wire comprising a core of nickel steel and an external copper sheath welded thereto, said wire as a whole having less expansion than platinum.

10. The combination, with a gas-tight receptacle having a wall of vitreous material, of a composite leading-in wire sealed therein, said wire consisting of reinforced copper wire, said reinforcement consisting of a layer of low expansion nickel-iron alloy.

The Examiner of Interferences, after a painstaking review of the evidence, awarded priority of invention to Eldred. The Examiners-in-Chief and the Commissioner overruled this decision and awarded priority to Fink.

Eldred contends, and this contention was sustained by the Examiner of Interferences, that application No. 656,987, filed October 26, 1911, upon which patent was issued December 30, 1913, constituted a constructive reduction to practice. If this contention is sound, Eldred is entitled to an award of priority. In that application Eldred was particularly concerned with a composite wire consisting of a nickel-steel core, a layer of copper and an outer covering of platinum, but in his specificatiou he said:

Nickel-steel containing about 38% of nickel answers the purpose very well.

The size of the core is specified and also its coefficient of expansion, as well as the thickness of the copper layer and the platinum covering. In addition to this description of the above composite wire, the specification makes reference to the use of wire without the platinum covering, in these words:

As additional evidence of the importance of having a coefficient of expansion lower than that of glass the fact may be mentioned that the composite copper-nickel-steel core of the present wire has, without any coating platinum, been drawn into lamp wire and has afforded seals. With such a copper-clad ferrous alloy wire, the sealing-in operation is best carried on under non-oxidising conditions, as for example in an atmosphere of nitrogen or other inert gas. Three lamps out of five have given perfect seals. Here the character of the seal depends, not upon any adhesion of the glass for the copper, as the surface of the latter metal oxidises considerably in the process of sealing-in but solely upon the strong contraction of the glass upon the wire. A glass lamp having sealed into it a leading-in wire comprising an alloy core of low but non-uniform expansion and an expansion-correcting sheathing of welded-on copper, the wire as a whole having a lower expansion than the glass, is in itself novel, and the right to make such novel article the subject of separate application is expressly reserved. For the present purposes however, a welded-on outer sheathing of platinum is desirable and preferable.

There was evidence that in October of 1910 a few experimental lamps were made according to the disclosure in this specification, and that 60% of them were good lamps. At the time the testimony was taken, wire made according to the specification of this patent was used in making a considerable number of lamps, almost all of which were perfect. We agree with the Examiner of Interferences that this application describes fully the structure of the wire, the principle involved, and gives the proportions and dimensions for at least one embodiment. As the Commissioner correctly says:

That a certain amount of experimenting may be necessary in a certain class of inventions and that the necessity for such experimentation is no ground for holding a patent invalid is well settled.

This specification was addressed to those skilled in the art, to whom was left the mere mechanical experimentation incident to the commercial exploitation of the invention. In other words, any one skilled in the art, given this specification, would have had no difficulty in producing lamps.

For the reasons given more in detail by the Examiner of Interferences, we reverse the decision and award priority to Eldred.

Reversed, as to No. 1474.

Affirmed, as to No. 1475.

In this case Mr. Justice HOEHLING of the Supreme Court of the District of Columbia sat in the place of Mr. Chief Justice SMYTH.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

845,747, 908,731, W. R. Bonham, Calculating machines, suit filed March 8, 1922, U. S. D. C., W. D. Mich., Doc. 1959, *F. C. Pangborn* v. *R. W. Hook and The Calculator Corporation.* Decree by stipulation of parties dismissing cause, entered June 13, 1922.

897,757, I. W. Marshall, Sheet-combining machine; 897,758, same, Process for manufacturing indurated fiber, suit filed June 3, 1922, U. S. D. C., Del., Doc. 481, *T. E. Marshall, J. W. Marshall, T. C. Marshall, and National Fibre & Insulation Company* v. *Diamond State Fibre Company.*

897,758. (See 897,757.)

908,731. (See 845,747.)

934,603, J. F. Gedge, ifting and mixing machines, suit filed May 2, 1922, U. S. D. C., M. D. Pa., Doc. 326, *The Gedge Gray Company* v. *Sprout, Waldron & Company.* Injunction issued June 6, 1922.

1,028,039, M. B. Lloyd, Processes of manufacturing metal tubes; 1,124,756, 1,124,763, same, Tube-welding machines; 1,124,760, same, Continuous welding mechanism; 1,124,766, same, Tube-welding process; 1,141,068, same, Art of welding; Reis. 13,941 (original Patent 961,394), M. Altman, Apparatus for welding the meeting edges of metallic articles; suit filed June 15, 1922, U. S. D. C., E. D. Mich., Doc. 471, *The Elyria Iron & Steel Company and The Standard Parts Company and Frank A. Scott* v. *American Metal Products Company.*

1,028,039, M. B. Lloyd, Processes of manufacturing metal tubes; 1,124,756, 1,124,763, same, Tube-welding machines; 1,124,760, same, Continuous welding mechanism; 1,124,766, same, Tube-welding

process; 1,141,068, same, Art of welding; Reis. 13,941 (original Patent 961,394), M. Altman, Apparatus for welding the meeting edges of metallic articles; suit filed June 13, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 736, *The Elyria Iron & Steel Company and The Standard Parts Company and Frank A. Scott* v. *The American Welding & Manufacturing Company.*

1,082,419, N. E. Gee, Stokers; 1,130,443, 1,195,532, C. F. Street, Mechanical stokers, suit filed December 30, 1920, U. S. D. C., Del., Doc. 410, *Locomotive Stoker Company* v. *The Elvin Mechanical Stoker Company.* Decree entered May 31, 1922, granting preliminary injunction as to claims 1 and 2 of Patent 1,130,443 and dismissing bill of complaint as to claims 1, 3, 5, 8, 9, and 10 of Patent 1,082,419 and as to Patent 1,195,532.

1,085,474, C. Peterson, Eaves-trough braces, suit filed June 6, 1922, U. . D. C., Kans. (1st Div.), Doc. 2342, *C. Peterson* v. *Milwaukee Corrugating Company.*

1,124,756. (See 1,028,039.)
1,124,760. (See 1,028,039.)
1,124,763. (See 1,028,039.)
1,124,766. (See 1,028,039.)
1,130,443. (See 1,082,419.)
1,141,068. (See 1,028,039.)
1,195,532. (See 1,082,419.)
Reis. 13.941. (See 1,028,039.)

Reis. 15.280 (original Patent 1,326,899), H. Abraham, Strip shingles, suit filed June 12, 1922, U. S. D. C., N. D. N. Y., Doc. 365, *The Ruberoid Company* v. *McHenry-Millhouse Manufacturing Co.*

Adverse Decisions in Interference.

PATENT NO. 1,348,085.

On May 19, 1922, a decision was rendered that Ezra Lyman Cathcart was not the first inventor of the subject matter covered by claim 2 of his Patent No. 1,348,085, subject, "Posting tray for machine bookkeeping," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,374,217.

On June 3, 1922, a decision was rendered that Herman C. Muhlbach was not the first inventor of the subject matter covered by the sole claim of his Patent No. 1,374,217, subject, "Wheel," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,376,371.

On June 2, 1922, a decision was rendered that George H. Yanochowski was not the first inventor of the subject matter covered by claims 4, 5, 6, 12, 13, 18, 19, 20, 22, 24, 26, 27, 28, 29, 32, 33, 34, 38, 39, and 40 of his Patent No. 1,376,371, subject, "Automatic telephone system," and no appeal having been taken within the time allowed such decision has become final.

Changes in Classification.

(ORDER NO. 2,760.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 16, 1922.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 97, Plows (Division I), abolish subclass—

4. Clevises.

The patents formerly contained in this subclass have been placed for the most part in class 278, Land Vehicles, Animal Draft Appliances, subclasses 96.1, Whiffletrees, Connections, Link or clevis, Resilient, and 96.2, Whiffletrees, Connections, Link or clevis, Adjustable draft line, and the subclass indented thereunder, hereinafter established.

In class 213, Railway Draft Appliances (Division XLIV), abolish subclass—

67. Miscellaneous.

The patents formerly contained in this subclass have been placed for the most part in class 280, Land Vehicles, in the subclasses indented under subclass 33.2, Wheeled, Articulated, Vehicle train, hereinafter established.

In class 278, Land Vehicles, Animal Draft Appliances (Division X), change the title of subclass 96, Whiffletrees, Connections, Link, to read—

Whiffletrees—
Connections—
96. Link or clevis.

abolish the existing definition, and establish in lieu thereof the following definition:

96. WHIFFLETREES, CONNECTIONS, LINK OR CLEVIS. The connecting means is in the form of a link or clevis.

In same class, establish the following subclasses and definitions:

Whiffletrees—
Connections—
Link or clevis—
96. 1. Resilient,
96. 2. Adjustable draft line—
96. 3. Horizontally.

96.1. WHIFFLETREES, CONNECTIONS, LINK OR CLEVIS, RESILIENT. Where the link or clevis is supported resiliently or consists of resiliently-connected parts.

96.2. WHIFFLETREES, CONNECTIONS, LINK OR CLEVIS, ADJUSTABLE DRAFT LINE. Where the link or clevis is so mounted or constructed as to permit change in the line of draft relative to the drawn vehicle.

96.3. WHIFFLETREES, CONNECTIONS, LINK OR CLEVIS, ADJUSTABLE DRAFT LINE, HORIZONTALLY. Where the adjustment is permitted in a horizontal plane.

The patents contained in these subclasses have been taken for the most part from class 97, Plows, subclass 4, Clevises, hereinbefore abolished.

In class 280, Land Vehicles (Division X), abolish the following subclasses with their definitions:

Wheeled—
Articulated—
Vehicle train—
33. 7. Offset couplings—
33. 8. Adjustable-tongue connectors.

The patents formerly contained in these subclasses have been placed for the most part in class 280, Land Vehicles, subclasses 33.44, 33.55, and 33.9 to 33.16, indented under subclass 33.2, Wheeled, Articulated, Vehicle train, hereinafter established.

In same class, change the titles of subclasses 33.5, Wheeled, Articulated, Vehicle train, Trailer-steering connectors, and 33.6, Wheeled, Articulated, Vehicle train, Trailer-steering connectors, Adjustable tongue, to read:

Wheeled—
Articulated—
Vehicle train—
Draft devices—
33. 5. Trailer steering—
33. 6. Adjustable tongue,

change the definition of subclass 33.5 by canceling the first word, "Coupling" and substituting therefor the word *Draft*, and change the definition of subclass 33.6 by canceling the note at the end thereof and substituting *Search this class, subclass 33.11.*

In same class, establish the following subclasses and definitions:

Wheeled—
Articulated—
Vehicle train—
33.44. Draft devices—
Trailer steering—
33.55. Stub-axle type,
33.9. Resilient,
33.10. Shiftable—
33.11. Pivoted—
33.12. To tractor,
33.13. Pusher type,
33.14. Tow poles and ropes,
33.15. Coupling—
33.16. Overload release.

33.44. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES. Patents relating to the means for transferring movement from a drawing to a drawn vehicle either by push or pull through such draft devices.

33.55. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, TRAILER-STEERING, STUB-AXLE TYPE. Where the drawn vehicle is provided with the stub-axle type of guiding wheel.

33.9. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, RESILIENT. Where the draft device is resiliently mounted on the vehicle to cushion shocks incident to its use.

33.10. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, SHIFTABLE. Where the draft device may be shifted laterally and held in such shifted position to permit changes in the relative line of draft of the drawing and drawn vehicle.

Search this class, subclass 33.6.

33.11. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, SHIFTABLE, PIVOTED. Where the draft device may be shifted laterally about a pivot on the frame of the vehicle.

33.12. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, SHIFTABLE, PIVOTED, TO TRACTOR. Where the pivot is on a tractor (drawing vehicle.)

33.13. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, PUSHER TYPE. Draft devices specially adapted to push a vehicle or vehicles in train formation.

33.14. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, TOW POLES AND ROPES. Means of the character indicated adapted to connect conventional parts of vehicles, usually used to tow a disabled motor vehicle.

Note.—Where a steering function is also included, search this class, subclass 33.5, and the subclasses indented thereunder.

33.15. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, COUPLING. The coupling elements of draft devices.

33.16. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, COUPLING, OVERLOAD RELEASE. Where such coupling operates under overload to automatically release the coupling connection.

Search Class—
278—LAND VEHICLES, ANIMAL DRAFT APPLIANCES, subclass 22, Horse-detachers, Automatic.

The patents contained in these subclasses have been taken for the most part from class 213, Railway Draft Appliances, subclass 67, Miscellaneous, hereinbefore abolished, and class 280, Land Vehicles, subclass 33.7, Wheeled, Articulated, Vehicle train, Offset couplings, and the subclass indented thereunder, hereinbefore abolished.

In same class (280), in subclass 33, Wheeled, Articulated, cancel the existing definition and substitute therefor the following:

33. WHEELED, ARTICULATED. Jointed vehicles or trains of vehicles connected together to permit a single source of draft to move such train as a unit.

Note.—Patents showing the drawn vehicle as an agricultural or earth-working implement, when there is involved no functional manipulation of the implement and no specific structure thereof other than that which directly cooperates to effect a joining of the implement to the drawing vehicle, will be found in this class; otherwise in the art in which the particular implement is classified.

Note.—Compare this class, subclass 98, and the subclasses indented thereunder.

Search Class—
180—MOTOR VEHICLES, subclass 14, Vehicle trains.

In same class (280), in subclass 33.2, Wheeled, Articulated, Vehicle train, cancel the existing definition and substitute therefor the following:

33.2. WHEELED, ARTICULATED, VEHICLE TRAIN. Trains of two or more vehicles adapted to travel other than on tracks and provided with draft connections.

WM. A. KINNAN,
Acting Commissioner.

Changes in Classification.

(ORDER NO. 2,761.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 17, 1922.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 118, Textiles, Spinning (Division XXI), establish the following subclass and definition:

Doffing or donning—
Mechanical—
18.5. Traveling carriage.

18.5. DOFFING OR DONNING, MECHANICAL, TRAVELING CARRIAGE. The doffing or donning mechanism is adapted to travel along the frame and manipulate the bobbins in succession.

The patents contained in this subclass have been taken from class 214, Material or Article Handling, subclass 4, Bobbin doffing or donning, hereinafter abolished.

In the same class (118), subclass 16, Doffing or donning, abolish the note following the definition.

In class 214, Material or Article Handling (Division IV), abolish the following subclass with its definition:

4. Bobbin doffing or donning.

The patents formerly contained in this subclass have been placed in class 118, Textiles, Spinning, subclass 18.5, Doffing or donning, Mechanical, Traveling carriage, hereinbefore established.

WM. A. KINNAN,
Acting Commissioner.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 300—No. 2. TUESDAY, JULY 11, 1922. Price—$5 per year.

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Patents	742—No.	1,422,067 to No. 1,422,808, inclusive.
Designs	34—No.	61,186 to No. 61,219, inclusive.
Trade-Marks	223—No.	156,606 to No. 156,827, inclusive.
Labels	17—No.	24,694 to No. 24,710, inclusive.
Prints	1—No.	6,209.
Reissues	8—No.	15,403 to No. 15,410, inclusive.
T. M. Renewals	5	
Total	1030	

Instructions Respecting the Certification of Authority of Executors and Administrators, and the Execution of Applications for United States Patents by Foreign Residents.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

The following instructions to the diplomatic and consular officers of the United States respecting the certification of the authority of executors and administrators, and the execution of applications for United States patents by foreign residents have been issued by the Department of State.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF STATE,
Washington, June 24, 1922.

CERTIFICATE REQUIRED OF EXECUTOR OR ADMINISTRATOR IN CONNECTION WITH THE GRANTING OF PATENT FOR INVENTION OF DECEDENT.

To the American Diplomatic and Consular Officers.

GENTLEMEN: In a letter to the Department dated May 24, 1922, the Assistant Secretary of the Interior invites attention to section 4896 of the Revised Statutes, as amended by the act of March 3, 1903 (Chap. 1019, 23 Stats. L., 1226), which provides that, when any person making application for a patent dies before it has been granted, the executor or administrator may carry on the proceedings, and that "the authority of such foreign executor or administrator shall be proved by a certificate of a diplomatic or consular officer of the United States." It is essential that this certificate be recorded in the United States Patent Office and its form, the Commissioner of Patents suggests, should be substantially as follows, it being contemplated that the papers which satisfy the diplomatic or consular officer of the appointment of the administrator shall not be attached to his certificate and need not be transmitted to the Patent Office:

I, ——————, Consul of the United States of America at ——————, duly commissioned and qualified, do hereby certify that there have been exhibited to me papers issued by ——————, the authorized authorities in this jurisdiction which show that ——————— is the person authorized to act as executor or administrator of the estate of ——————, deceased, late of ——————.

In testimony whereof, I hereunto set my hand and seal this —— day of ——————, 19—.

[SEAL.] ——————,
U. S. Consul.

The parties interested should make application for this certificate directly to the diplomatic or consular officers, who are authorized to perform the service, consular officers charging the usual fee of $2.00 as prescribed by item No. 38 of the Tariff of United States Consular Fees.

In the above connection your attention is again invited to the requirement (see circular instructions May 11, 1897; and April 11 and August 11, 1899; and General Instruction No. 730) that when an oath accompanying an application for United States Letters Patent is executed before you "all the application papers must be attached together and a ribbon passed one or more times through all the sheets of the application, and the ends of such ribbon brought together under the seal before the latter is affixed and impressed or each sheet must be impressed with the official seal." Because of the failure properly to ribbon papers presented through consular officers the Patent Office frequently finds it necessary to refuse to accept applications for patent offered for filing.

I am, gentlemen, your obedient servant,
For the Secretary of State:
ALVEY A. ADEE.

The Official Gazette.

THE OFFICIAL GAZETTE is published every Tuesday simultaneously with the weekly issue of patents. From January 1, 1872, (the commencement of its publication,) to June 30, 1883, it was published and bound in semi-annual volumes; from July 1, 1883, to December 31, 1902, in quarterly volumes; from January 1, 1903, to December 31, 1908, in bimonthly volumes; since January 1, 1909, in monthly volumes. Terms: Annual subscriptions, $5; monthly, 50 cents. For postage upon foreign subscriptions, except those from Canada and Mexico, $5 or more, as required. Moneys received from foreign subscribers in excess of the subscription price of $5 will be deposited to the credit of the subscriber and applied to postage upon the subscription as incurred. Single copies, 10 cents; if mailed to foreign countries, excepting Canada and Mexico, 10 cents additional for postage. *Payment in advance required. No club rates. No discount to newsdealers. No sample copies.* All subscriptions must commence with the beginning of a volume. None taken for less than an entire volume. All orders should be addressed to "The Superintendent of Documents, Government Printing Office, Washington, D. C."

Condition of Applications Under Examination at Close of Business July 1, 1922.

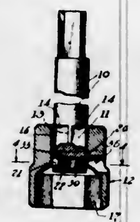
(Total number of applications waiting action, excluding Trade-Mark division, 67,367; Trade-Mark division, 8,549. Oldest new case, Mar. 31; oldest amended, Apr. 8, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Nov. 30	Dec. 14	913
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	July 12	July 5	1,960
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 17	Aug. 19	919
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 22	*Apr. 6	1,469
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 26	Sept. 30	1,115
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 26	*Feb. 11	1,262
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Sept. 21	Nov. 7	2,370
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture: Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 17	*May 3	872
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	June 2	*Apr. 19	1,117
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 23	*Mar. 22	1,137
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 6	*Feb. 23	663
322	12. PIERCE, P. P., Machine Elements	Dec. 1	*Feb. 17	1,295
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 20	*Feb. 25	1,694
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 9	*Mar. 16	1,150
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 18	Aug. 24	2,021
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	July 6	July 14	2,337
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 20	*Jan. 3	1,351
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	June 1	May 20	2,428
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	June 2	Oct. 17	1,316
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Jan. 23	*Jan. 9	1,573
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Aug. 30	Dec. 28	909
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Oct. 21	*Mar. 9	466
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	May 13	Nov. 3	815
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 9	*Feb. 7	1,210
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 5	*Apr. 5	432
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Sept. 12	Dec. 31	1,046
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 10	Sept. 12	1,994
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 7	Sept. 1	1,684
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Oct. 5	*Apr. 28	538
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 3	*Apr. 1	1,457
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 21	Sept. 6	2,142
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Sept. 1	*Mar. 9	989
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 14	*Jan. 21	914
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 17	*Mar. 16	559
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 3	*Apr. 20	813
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 1	*Jan. 13	1,758
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Aug. 10	Aug. 8	1,583
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 22	Oct. 20	1,773
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	May 16	June 2	2,281
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	July 9	Oct. 6	2,887
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Feb. 9	*Jan. 26	731
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	July 25	June 27	1,974
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 1	Oct. 4	1,865
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 8	*Apr. 1	594
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Nov. 16	*Feb. 3	1,272
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 12	Dec. 5	1,313
261	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Aug. 26	*Jan. 25	1,270
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Mar. 31	Apr. 8	2,836
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Sept. 12	*Jan. 30	5,832
	Designs	Nov. 5	Dec. 30	2,577
	Labels and Prints	*June 10	*June 23	140

PATENTS

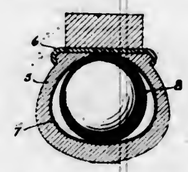
GRANTED JULY 11, 1922.

1,422,067. SOCKET WRENCH. WALTER A. ABEGG, Los Angeles, Calif. Filed Dec. 15, 1920. Serial No. 430,877. 7 Claims. (Cl. 81—121.)



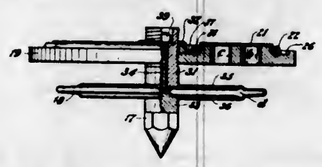
1. In combination, a socket having a recess, a shank adapted to extend into the recess, and means adapted to be set to adjustably yieldingly hold the shank in the recess or to positively hold the shank in the recess, said means comprising a pressure member, a spring adapted to press the pressure member when the shank is yieldingly held in the recess, a screw adapted to adjust the pressure of the spring, and a part arranged to positively connect the pressure member and screw when the shank is positively held in the recess.

1,422,068. PRESSURE-SIGNALING DEVICE FOR TIRES. WILLIAM F. ARNDT, Watertown, Wis. Filed June 17, 1921. Serial No. 478,437. 2 Claims. (Cl. 116—34.)



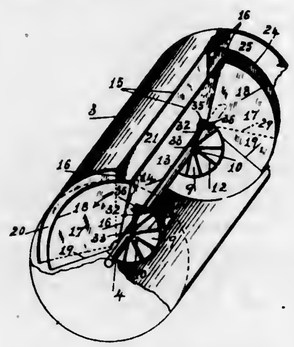
2. The combination with the inner tube of a pneumatic tire, of an elongated solid ball enclosed thereby, the elongated elements of the surface of the ball having a greater radius of curvature than the inner circumference of the tube, and the shortest diameter of the ball being approximately three-fourths of the normal diameter of the tube.

1,422,069. STEAM TRAP. CHARLES H. ATKINS, Palmer, Mass. Filed May 13, 1920. Serial No. 381,106. 5 Claims. (Cl. 236—58.)



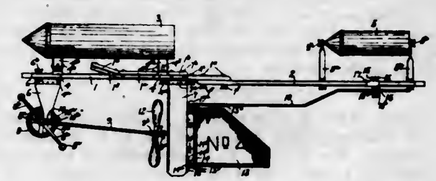
5. In a steam trap, the combination, of an enclosing casing, a rigid member secured to the casing, the casing having inlet and outlet ports arranged in alignment with each other, a diaphragm having a volatile liquid therein and secured to the rigid member, a valve secured to the diaphragm, the rigid member being located under the inlet port and having openings to permit the incoming steam to directly surround the diaphragm to cause the expansion of the liquid in the diaphragm to close the valve, the construction being such that the diaphragm will be cooled simultaneously with the interior of the casing to open the valve and will immediately expand to close the valve by the incoming steam, passing through the openings in the rigid member and directly into contact with the diaphragm.

1,422,070. AIR COMPRESSOR. HANS C. AARUP, Springfield, Ill. Filed Sept. 25, 1919. Serial No. 326,240. 1 Claim. (Cl. 230—22.)



In an air compressor, the combination of a rotative shaft; spiders having radial slits and perforated ears; pins extending through the perforations in the ears of the spiders and through the shaft and connecting the spiders with the shaft in such relation thereto that the radial slits of the respective spiders will be uniformly out of line; blades supported in the radial slits of the spiders and separated by narrow spaces between the inner longitudinal edges of the blades; wings united to the respective blades; and a cylindrical shell united to the blades and the wings.

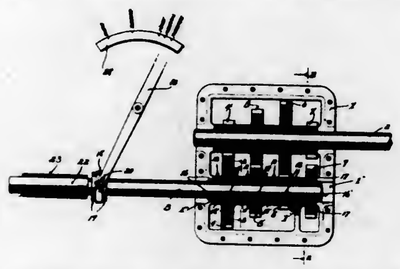
1,422,071. SWIMMING DEVICE. GEORGE GAIL ALLENBAUGH, Mansfield, Ohio. Filed Aug. 31, 1921. Serial No. 497,096. 9 Claims. (Cl. 9—18.)



2. In a swimming device, a buoyant collapsible frame provided with subjacent propeller and rudder mechanism

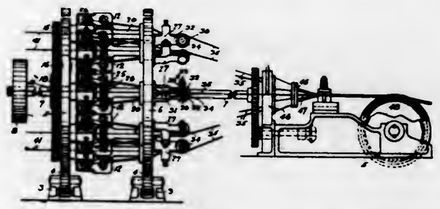
beneath its median portion, and hand operated gearing at the front portion of said frame for operating said propeller and a foot operated lever for controlling said rudder mechanism.

1,422,072. VARIABLE-SPEED GEAR. PETER ALVIN AMUNDSON, Oconomowoc, Wis., assignor of one-half to Thomas Andrew Amundson, Oconomowoc, Wis. Filed Feb. 1, 1921. Serial No. 441,566. 1 Claim. (Cl. 74—59.)



A variable speed gear comprising a driven shaft, said driven shaft having a transverse recess and a central, longitudinal recess, a plurality of gears on the drive shaft, a longitudinal, continuous key for said gears rigid with said shaft, a plurality of gears on the driven shaft provided with circular recesses and longitudinal slots, a key on said driven shaft reciprocable in said transverse recess, a plunger rigid with said key mounted in said longitudinal recess, and a spring urging said key rearwardly in said transverse recess, said key extending from said driven shaft so as to engage with the longitudinal slot of each gear selectively, a reverse gear on said driven shaft provided with a slot, a key on said driven shaft for engaging in said slot, a stud, a gear wheel on said stud meshing with said reverse gear and one of said gears on said driven shaft.

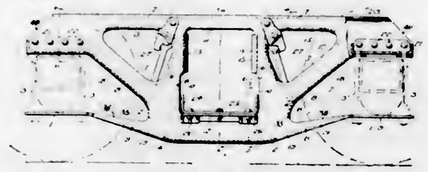
1,422,073. WIRE-ROPE MACHINE. ALBIN E. ANDERSON, Oakmont, Pa., assignor of two-thirds to Eyvind M. Verner and James W. Macfarlane, both of Pittsburgh, Pa. Filed Dec. 2, 1920. Serial No. 427,855. 4 Claims. (Cl. 28—21.)



1. In a machine for making wire cable, the combination of a rotatable flier frame and a plurality of individually rotatable bobbin frames carried by the said flier frame, each of the said bobbin frames comprising means for carrying a plurality of rotatable bobbins in two parallel sets the axis of the bobbins in each set being arranged on the sides of a polygon around the axis of rotation of the bobbin frame, the bobbins in one set being staggered with respect to the bobbins in the other set.

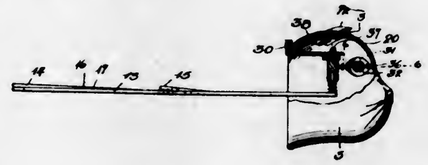
1,422,074. TRUCK SIDE FRAME. GUSTAF ARVID ANDERSON, Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 8, 1921. Serial No. 520,849. 64 Claims. (Cl. 105—205.)

1. A car truck side frame involving a sheet metal outer wall and a sheet metal inner wall integrally connected thereto in spaced relation therewith, each of said walls having a plurality of truck column portions, a plurality of top arch bar portions, a plurality of bottom arch bar portions and a plurality of pedestal tie bar portions.



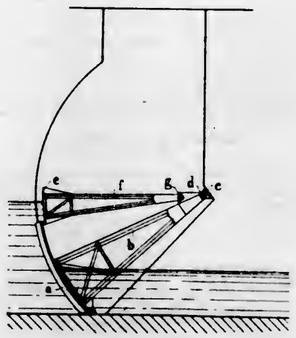
29. A blank for a side frame member of a car truck, said blank being of sheet metal and having an axis of symmetry dividing said blank into two portions each of which has a bolster opening, top arch bar portions, pedestal tie bar portions and bottom arch bar portions.

1,422,075. SPARKING TOY. LOUIS V. AROSSON, Newark, N. J. Filed May 27, 1921. Serial No. 473,135. 3 Claims. (Cl. 46—40.)



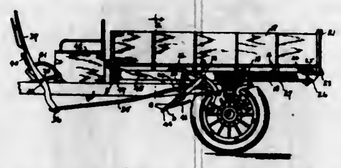
1. A toy comprising the semblance of a portion of a living being having elements thereof simulating eyes adapted to permit light to pass therethrough, a pyrophoric element mounted within said portion, means to cause friction of said pyrophoric element to produce sparks whereby the light passing elements shall be illuminated.

1,422,076. SEGMENT GATE. THEODOR BECHER, Gustavsburg, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg, A. G., Nuernberg, Bavaria, Germany, a Corporation of Germany. Filed Apr. 11, 1922. Serial No. 551,740. 1 Claim. (Cl. 61—25.)



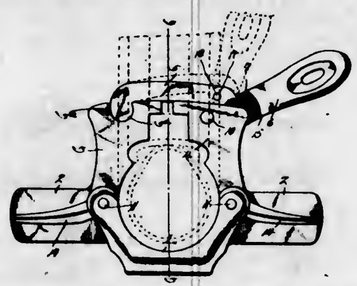
A segment gate consisting of two parts being arranged one above the other in such a manner that the upper segment leaf is journalled to swing on a special pivot arranged on the supporting arm of the lower segment leaf.

1,422,077. DUMPING MECHANISM FOR TRUCKS. JOHN A. BEEBE, Omaha, Nebr., assignor of one-fourth to Percy A. Greaves, Omaha, Nebr. Filed Jan. 24, 1921, Serial No. 439,458. Renewed Dec. 12, 1921. Serial No. 521,925. 6 Claims. (Cl. 298—19.)



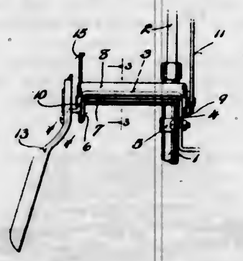
1. In dumping mechanism, the combination with the frame of a vehicle having a box pivotally mounted thereon, of a rock-lever pivotally connected with the frame, a hoisting-bar pivotally mounted between its ends upon the rock-lever and having its upper end pivotally connected with the box, and a longitudinally movable pull-and-push bar pivotally connected with the lower end of the hoisting-bar.

1,422,078. AUTOMOBILE SAND AND MUD DOG FOR ATTACHING TO VEHICLE WHEELS. DEMARKUS S. BLACKWELL, Sand Springs, Okla. Filed June 24, 1921. Serial No. 480,252. 3 Claims. (Cl. 152—14.)



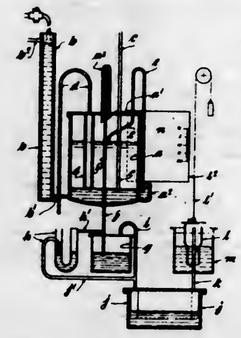
1. A device for attaching over a wheel comprising a base piece for gripping purposes carrying pivotally attached thereto, two side pieces forming jaws, all of a shape to fit snugly over a tire, rim, and felly of said wheel, a handle pivotally attached to one side piece, a clamping member carried by said handle, capable of being locked to the opposite side piece, and means for connecting said pieces, as and for the purpose described.

1,422,079. BURNER-LIFTING MEANS. JOHN S. BRENNAN, Milwaukee, Wis. Filed Aug. 30, 1920. Serial No. 407,032. 2 Claims. (Cl. 158—42.)



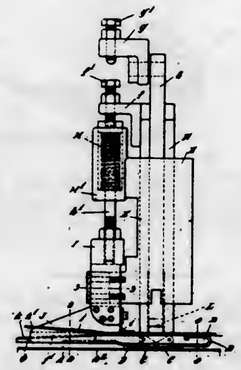
1. In a burner structure, a supply pipe, means for moving a burner head including a bracket arm extended from and secured to the supply pipe, the opposite end portions of the arm being laterally turned, a brace rod connecting the laterally turned portions, an operating strip having its opposite ends bent laterally and pivoted on the end portions of said brace rod, one end of the strip forming a crank for a burner head connecting member, the other end providing a handle attaching portion, and a handle fixed to said attaching portion, the opposite edges of said strip being adapted to engage the arm to limit rotation of said handle.

1,422,080. APPARATUS FOR AUTOMATIC AND CONTINUOUS ANALYSIS AND RECORDING OF GASES. WALTER DOUGLAS RUSSELL BROWN and WILLIAM THOMAS PICKSTON, Bolton, England. Filed Dec. 15, 1919. Serial No. 344,989. 3 Claims. (Cl. 23—3.)



3. Apparatus for the continuous and automatic analysis of flue and other gases by the absorption process and the continuous and automatic recording of such analysis, comprising, in combination, an initial gas measuring chamber, a residual gas measuring chamber and means whereby the withdrawal of the sealing liquid from the initial gas measuring chamber by a vacuum serves to unseal the exit of the residual gas measuring chamber, as set forth.

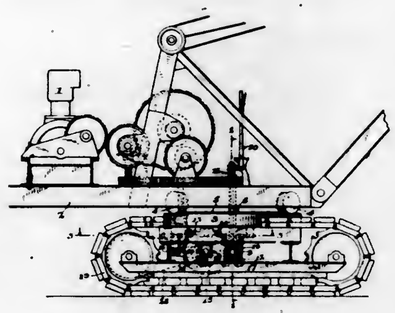
1,422,081. WIRE-STITCHING MACHINE. GEORGE THOMAS BUCKHAM and JOHN IRVING NASMITH, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Nov. 3, 1921. Serial No. 512,629. 6 Claims. (Cl. 1—11.)



4. A wire stitching mechanism for folding boxes comprising a work support, a movable anvil located above said

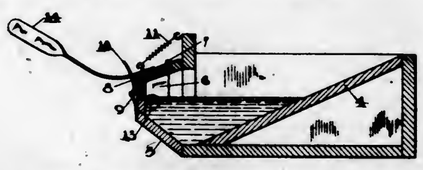
work support and within which clinching dogs are pivotally mounted, the upper face of said anvil being adapted to receive the overlapping edges of the boxes which are to be stitched together, the lower surface of the box being positioned beneath said anvil and resting upon said work support, a blade spring being provided beneath the clinching dogs so as to protect the lower surface of the box during the clinching operation.

1,422,082. CONTROL MEANS FOR LOCOMOTIVE CRANES. PAUL BURKE, Green Bay, Wis., assignor, by mesne assignments, to Northwest Engineering Company, a Corporation of Wisconsin. Filed Oct. 2, 1920. Serial No.414,217. 8 Claims. (Cl. 180—9.2.)



1. The combination, with traction elements and a base wholly supported thereby, of a rotating base mounted on said base, a prime mover on said rotating base, a power transmission shaft located in the axis of rotation of said rotating base and driven by said prime mover, transmission mechanism between said shaft and traction elements to positively drive said elements at the same or differential speeds whereby said machine may be positively driven and turned entirely under its own force, and control means for said driving means coaxial with the axis of rotation of said rotating base and operable therefrom irrespective of its position or movement.

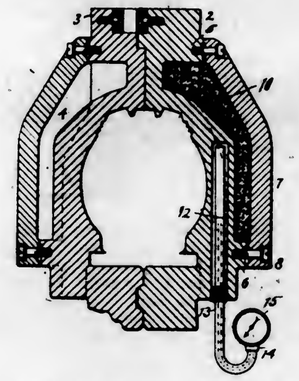
1,422,083. APPARATUS FOR SOLUTIONING TIRE BEADS. THOMAS A. BURNS, Toronto, Ontario, Canada, assignor to Dunlop Tire and Rubber Goods Company, Limited, Toronto, Ontario, Canada. Filed Nov. 29, 1920. Serial No. 426,997. 3 Claims. (Cl. 91—32.)



1. Apparatus for solutioning tire beads comprising a solution tank having part of a side wall movable to and from its normal position; and a divided apertured die plate partly carried by the side wall and partly by the movable part.

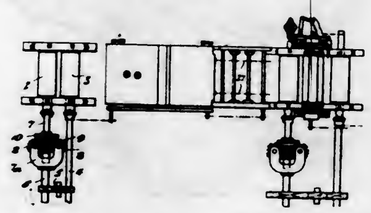
1,422,084. MOLD ADAPTED FOR USE IN VULCANIZING RUBBER ARTICLES. WARREN F. CLARK, Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa., a Corporation of Delaware. Filed Jan. 17, 1920. Serial No. 352,012. 13 Claims. (Cl. 18—31.)

1. The combination with a mold for use in vulcanizing rubber articles, said mold having a wall of approximately uniform thickness, one surface of which is adapted to cooperate with the article to be molded, an electric heating



coil cooperating with the other surface of the wall and substantially coextensive with the first mentioned surface of the wall.

1,422,085. APPARATUS USED IN THE MANUFACTURE OF SHEET-METAL PLATES. DAVID DAVIES, Llanelly, and DAVID JONES, Tircoed, Wales. Filed Apr. 18, 1918. Serial No. 229,392. 2 Claims. (Cl. 29—17.)



2. In metal stretching apparatus of the character described, a pair of primary rollers, a pair of secondary rollers, means to positively drive one roller of each pair, the said positively driven primary roller at a lower rate of speed than the said positively driven secondary roller, such driving means comprising a shaft directly connected to the said positively driven secondary roller, a second shaft geared to said first named shaft for rotation therewith in the same direction, a bracket carried by said second named shaft, worm wheels arranged for revolution and mounted in said bracket, a third shaft in line with and independent of said second shaft, and directly connected to the said positively driven primary roller, a worm on said third named shaft and engaged by the worm wheel, and a clutch element also on said third named shaft and arranged to cooperate with said worm.

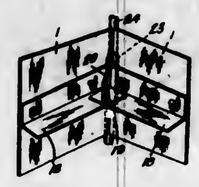
1,422,086. MEANS FOR CONNECTING AUTOMOBILE BODIES TO THE CHASSIS. ARTHUR C. DESLER, Radford, Va. Filed Apr. 12, 1921. Serial No. 460,647. 7 Claims. (Cl. 267—46.)



7. Means of the character described comprising two spring plate members with the outer end of each member

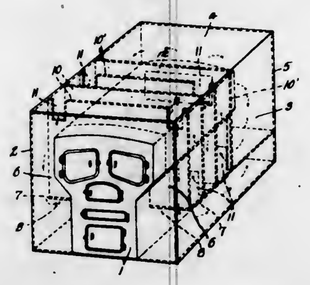
secured to the lower face of the body, two springs secured to the axle, each of said springs having a top plate terminating near the center of the body, means for connecting the inner end of each top plate and inner end of each spring plate together, and a plurality of radius rods, each being secured at one end to a clip fixedly secured to the axle with its other end secured to the body by a ball and socket joint.

1,422,087. HEATING APPARATUS. ARISTIDE HARRY DES PAROIS, Mon real, Quebec, Canada. Filed Apr. 1, 1921. Serial No. 457,622. 3 Claims. (Cl. 126—58.)



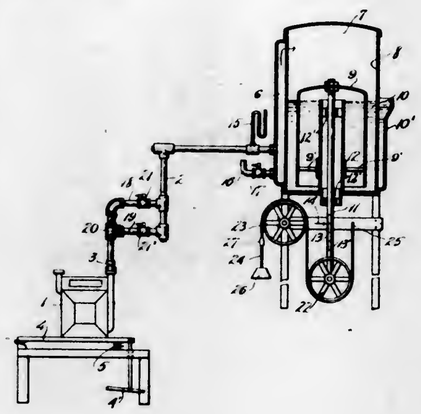
1. The combination with a heating furnace having a smoke outlet at its upper end, of an exterior casing enclosing said furnace and suitably spaced from the walls thereof; vertical partitions within the casing defining a space or chamber in front of the doors of the furnace to provide access to said doors; a plurality of spaced, horizontal partitions secured in said casing in the space between the walls thereof and the furnace, and dividing said space into a series of superposed sections, each section having a hole in zig-zag relation to the hole in the adjacent partition; and a pipe leading to the chimney communicating with the bottom section, substantially as described.

1,422,088. HEATING APPARATUS. ARISTIDE HARRY DES PAROIS, Montreal, Quebec, Canada. Filed Apr. 21, 1921. Serial No. 463,240. 4 Claims. (Cl. 126—60.)



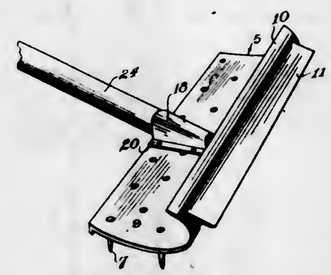
1. The combination with a heating furnace having a smoke outlet at one end, of an external casing enclosing the furnace and spaced therefrom; a horizontal partition disposed intermediate the top and bottom of the space formed between the walls of the casing and furnace and dividing said space into upper and lower sections, said partition terminating short of the front wall of the casing to provide an opening, and the lower section having a smoke outlet communicating with it; and a plurality of spaced, parallel partitions in the upper section connected at opposite ends with the top wall of the casing and the horizontal partition, each of the parallel partitions having an opening.

1,422,089. MEANS FOR AND METHOD OF PROVING GAS METERS. RICHARD L. DEZENDORF, Richmond Hill, N. Y. Filed Mar. 22, 1919. Serial No. 284,455. 7 Claims. (Cl. 73—1.)



1. In a meter tester, the combination of a connection adapted to be applied to the outlet of a meter to be tested, means for producing and automatically maintaining a partial vacuum for drawing air through said connection, and means for determining the amount of air drawn through such connection during a given operation of said meter.

1,422,090. GARDEN TOOL. DAVID S. DICKIE, Winifred, Mont. Filed Aug. 19, 1920. Serial No. 404,551. 4 Claims. (Cl. 55—39.)

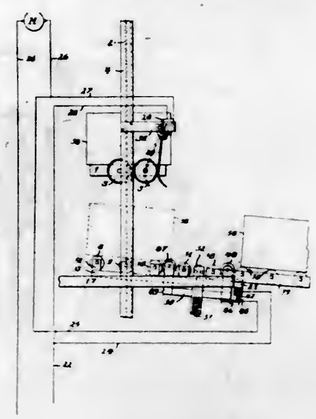


1. A garden tool comprising a transversely curved elongated plate having one longitudinal edge portion extended rearwardly in the direction of the major portion of the plate thereby forming an overhanging blade, a second blade projecting forwardly from the overhanging blade, and a handle connected to said plate at the other longitudinal edge of the same.

1,422,091. DETECTOR FOR ELEVATORS AND CONVEYERS. WILLIAM T. DONALDSON, St. Paul, Minn., assignor to Standard Conveyor Company, a Corporation of Minnesota. Filed Feb. 7, 1921. Serial No. 442,917. 6 Claims. (Cl. 198—232.)

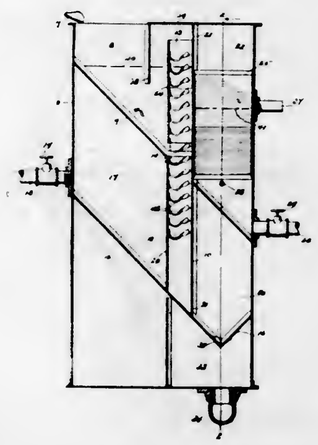
1. The combination with an electrical elevator having a series of trays and a conveyor arranged to receive packages therefrom, of switches connected in the power line

of the moter of said elevator, a detector mounted near the junction of said elevator and conveyer and arranged



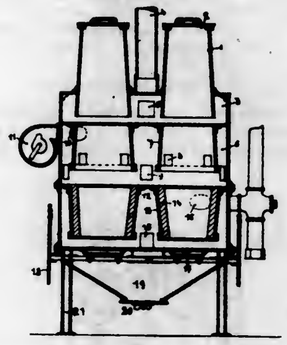
to actuate one of said switches and actuating means projecting into the path of said trays for operating another of said switches.

1,422,092. SEPARATING AND CLASSIFYING APPARATUS. LEWIS H. FALLEY, Kansas City, Mo. Filed Nov. 1, 1919. Serial No. 335,197. 5 Claims. (Cl. 83—82.)



1. An apparatus of the character described, comprising a settling tank, a partition dividing the tank into a settling compartment, and a receiving compartment communicating with said settling compartment intermediate the ends of the latter; fluid supply means communicating with said settling compartment and maintaining an upward flow therein, and a plurality of deflecting elements located in vertically spaced relation in said settling compartment, said elements extending in a downwardly curved direction, transversely across said settling compartment, and adapted to produce cross-currents therein, while also tending to centralize the downward movement of the material settling within said settling compartment.

1,422,093. GAS PRODUCER. LOUIS FORNAS, Paris, France. Filed Feb. 1, 1919. Serial No. 274,465. 2 Claims. (Cl. 48—73.)



2. In a gas producer, the combination of a horizontal air chamber having a drier therein, means for supplying fuel to the drier to pass therethrough, means for supplying air to said chamber at a point above the zone of combustion, suitable for carrying off moisture from the combustible and for supporting combustion, a horizontal gas chamber beneath the air chamber and provided with a discharge opening through which the gases produced are exhausted, and a furnace in the gas chamber communicating at its top with the air chamber at a point immediately below the drier, said furnace being supplied with air from said chamber and fuel from said drier.

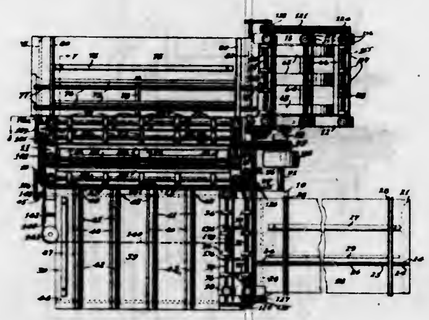
1,422,094. SPARE-TIRE CARRIER. GEORGE H. FORSYTH, Chicago, Ill. Filed July 12, 1920. Serial No. 395,466. 12 Claims. (Cl. 224—29.)



1. A carrier for spare tires comprising a dummy wheel body, simulating in appearance a service wheel of the car on which used but of non-service construction, a member adapted to receive and support a spare tire, and a releasable tire-retaining member, the dummy wheel body permanently assembled with a suitable support.

1,422,095. SCORING AND TRIMMING MACHINE. CHARLES C. GAMM, St. Paul, Minn., assignor to Waldorf Paper Products Company, a Corporation of Minnesota. Filed Oct. 15, 1920. Serial No. 417,119. 6 Claims. (Cl. 93—58.)

1. In a scoring and trimming machine, a frame, a feed table mounted at one end of said frame, a series of parallel shafts journalled in said frame, gripping rolls, trimming knives and rotary scoring bars mounted on said shafts, a second series of parallel shaf s journalled in said frame at right angles to said first series, rotary scoring bars and gripping rolls mounted on said second series of

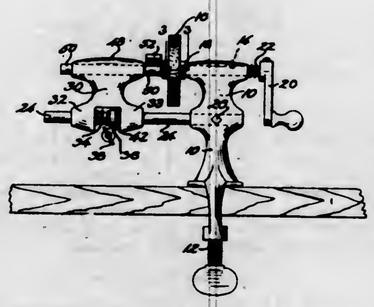


shafts, a second table interposed between said first and second series of shafts for receiving the material to be operated upon endless chains arranged to carry the material to be operated upon to said scoring bars and gripping rolls.

1,422,096. ALLOY CONTAINING IRON, NICKEL, CHROMIUM. PIERRE GIRIN, Paris, France, assignor to Societe Anonyme de Commentry, Fourchambault, & Decazeville, Paris, France. Filed Dec. 9, 1918. Serial No. 265,984. 1 Claim. (Cl. 75—1.)

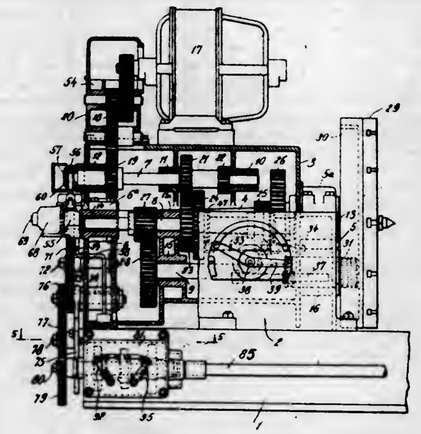
An alloy of iron, nickel, chromium and manganese, containing nickel, 20 to 25 per cent, chromium, 10 to 15 per cent, manganese, 1 to 2 per cent, carbon, 0.2 to 0.5 per cent, such alloy having, together with the mechanical qualities of the best steels, a high resistance to attack by strong acids, organic acids and alkalis, in solution or in fusion.

1,422,097. IGNITION-POINT GRINDER. DAVID H. GREENFIELD, Denver, Colo. Filed Apr. 5, 1920. Serial No. 371,353. 4 Claims. (Cl. 51—166.)



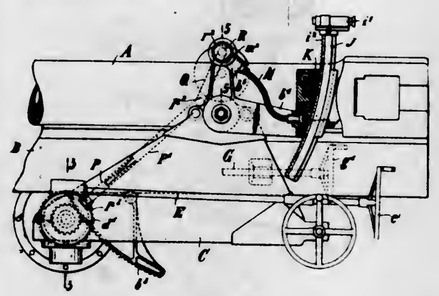
1. An ignition point grinder comprising a standard, a grinding wheel rotatably mounted thereon, a rod secured to said standard and extending therefrom in a direction parallel to the axis of rotation of said wheel, a holder support slidably and rotatably secured to said rod, a holder on said support adapted to clamp an ignition point, and means to adjust the holder to and from the surface of the grinding wheel.

1,422,098. LATHE HEADSTOCK. GEORGE E. GREENLEAF and CLIFFORD F. RANDOLPH, Plainfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 9, 1918. Serial No. 261,780. 25 Claims. (Cl. 74—58.)



19. In a lathe headstock, an improved tool feeding mechanism comprising the combination of a spindle, drive mechanism therefor, a combined frame and casing serving to support the said spindle and drive mechanism and serving to enclose the major portions thereof to retain oil and to exclude dirt, a bed supporting the frame, feed gearing mounted at the outer end of the said frame and casing entirely outside thereof, the initial element of said gearing being mounted on said casing, a feed shaft extending longitudinally of the bed at the front thereof, and a sliding gear change speed mechanism comprising a pair of parallel shafts having a plurality of gears thereon connecting the feed gearing with the feed shaft, one of said shafts being directly connected to and in alignment with said feed shaft.

1,422,099. GUN WITH INDEPENDENT SIGHTING LINE. WALTER HEILEMANN, Essen-on-the-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed May 26, 1915. Serial No. 30,639. 4 Claims. (Cl. 89—41.)



1. In a gun having a carriage and a gun barrel adapted to be elevated relatively to the carriage, a sighting device comprising a base member adapted to be elevated in unison with the gun barrel, a sighting means carrier adjustable relatively to said base member for range and a gearing for adjusting the sighting means carrier relatively to said base member, a planetary gearing mounted on the carriage

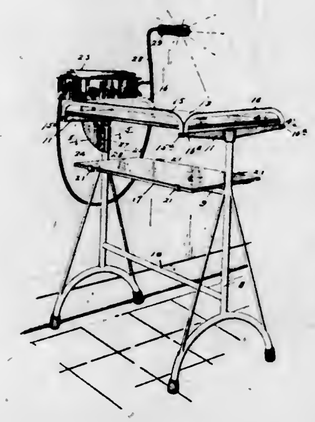
and comprising two coaxial central wheels rotatable independently of each other, a bridge member rotatable about the same axis as said central wheels and planetary wheels rotatably mounted on the bridge member in a distance away from said axis and engaging said central wheels, means for elevating the gun barrel positively connected to said bridge member, two driving members rotatably mounted on the gun carriage on opposite sides of the gun barrel each being positively connected to one of said central wheels and means positively connecting one of said driving members to said sighting means adjusting gearing for rotating the sighting means carrier relatively to the gun barrel about the same angle but in opposite direction as the gun barrel is rotated when said last-named driving member is actuated and the other driving member is held stationary, the sighting means carrier and the driving member positively connected thereto being arranged on opposite sides of the gun barrel.

1,422,100. BEATER FOR SUCTION CLEANERS. EARL B. HOFF, East Cleveland, Ohio, assignor, by mesne assignments, to Electric Vacuum Cleaner Company, Inc., East Cleveland, Ohio, a Corporation of New York. Filed Mar. 5, 1919. Serial No. 280,813. 5 Claims. (Cl. 15—188.)



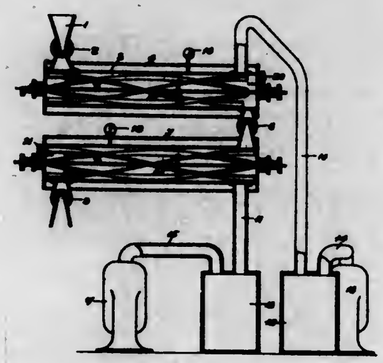
3. As an article of manufacture a hollow prismatic rubber sleeve having flexible lashes projecting outwardly from its edges, the ends of said sleeve being open.

1,422,101. KNOCKDOWN DENTAL AND SURGICAL TABLE. WALTER G. HOLMES, Minneapolis, Minn. Filed Nov. 29, 1920. Serial No. 426,946. 4 Claims. (Cl. 45—31.)



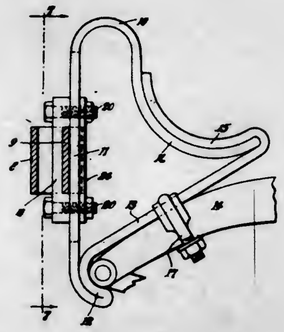
1. A dental or surgical table including a frame having supporting end members, a cross bar connecting said end members, cross arms on the end members and cross bar, and a table top and a shelf supported on the cross arms.

1,422,102. PROCESS FOR AGING WHEATEN FLOUR TO IMPROVE ITS BAKING QUALITIES. ROBERT HUTCHINSON, Nottingham, England. Filed Mar. 19, 1921. Serial No. 453,687. 5 Claims. (Cl. 83—42.)



1. A proces for improving the "strength" or baking qualities of wheaten flour in which a wheaten material is subjected to a heat treatment to effect a partial heat-coagulation of the gluten proteins, and such treatment is controlled by varying the fluid pressure exerted on the materials.

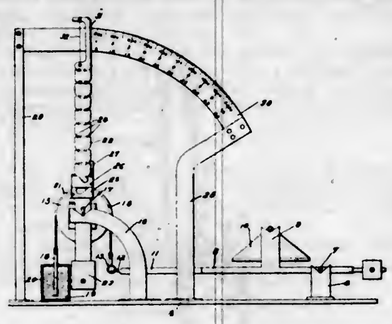
1,422,103. AUTOMOBILE BUMPER. NEIL MACINNES, Chicago, Ill. Filed Nov. 30, 1921. Serial No. 518,750. 14 Claims. (Cl. 293—55.)



4. A bumper comprising a bar having two portions struck from the ends thereof and extended rearwardly and shaped into arches to form securing and stiffening members for said bar, substantially as described.

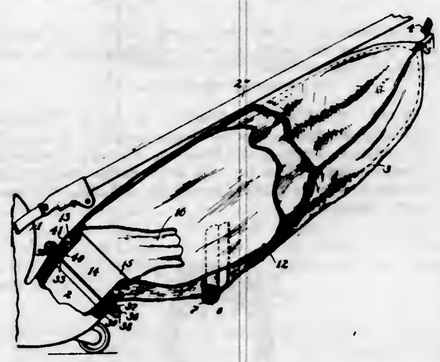
1,422,104. SCALE. HENRY F. KINSER, Chattanooga, Tenn. Filed Jan. 18, 1921. Serial No. 438,158. 3 Claims. (Cl. 265—36.)

1. In a scale, a base, a beam frame supported above the base and carrying a scale pan, bracket members supported by the base, a drum supported by the bracket members, a ribbon having connection with the beam frame and passing over the drum, an indicating beam having notches formed therein and having numerals disposed thereon opposite the notches, a pair of weights adjustable on the indicating beam and adapted to be positioned opposite the notches, to shift the center of gravity of the indicating



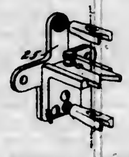
beam, a dial cooperating with the indicating beam, said dial having a line of numbers cooperating with the respective adjustable weights.

1,422,105. SUCTION CLEANER. JAMES B. KIRBY, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Filed Jan. 20, 1915. Serial No. 3,191. 22 Claims. (Cl. 183—44.)



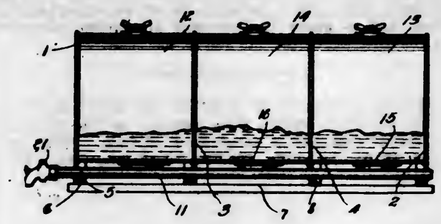
20. In a dust-bag for vacuum cleaners, the combination with the bag proper, of a rigid sleeve forming an inlet to the bag at its lower end, said bag having an outlet in said end adjacent said inlet, and a closure for said outlet.

1,422,106. THREAD-CLEANER. WALTER J. KLOTS, Scranton, Pa., assignor to W. J. Klots Raw Silk Cleaner Co., Inc., a Corporation of Delaware. Filed May 13, 1922. Serial No. 560,797. 5 Claims. (Cl. 28—70.)



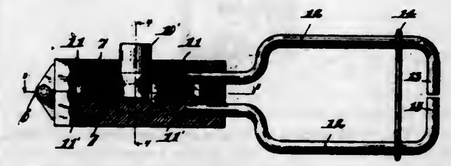
1. A thread cleaner comprising an integral flat plate of treatment hardened steel substantially ¼ of an inch in thickness having an open ended narrow slot therein the walls of which meet the face of the plate toward which the thread is moved at sharp right angles.

1,422,107. TANK CONSTRUCTION. ANDREW A. KRAMER, Kansas City, Mo. Filed Oct. 15, 1920. Serial No. 417,097. 5 Claims. (Cl. 280—5.)



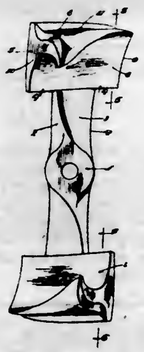
1. A wagon tank having end sheets and partition sheets provided with integral bolsters, dispensing pipes extending the length of the tank and connecting the bolsters, and means for effecting communication between the pipes and the tank.

1,422,108. MOLD. EDWARD J. KUKAC, Chicago, Ill. Filed Aug. 2, 1919. Serial No. 314,814. 3 Claims. (Cl. 22—153.)



1. A mold adapted for casting storage battery terminals comprising a pair of hingedly connected co-operating blocks; a matrix in the co-operating faces of said blocks; a removable core positioned through one block substantially at the central portion thereof and extending into said matrix; a second removable core in said matrix, said second core being tapered and located longitudinally in the meeting faces and within the end walls of said blocks; and an exterior opening communicating with said matrix.

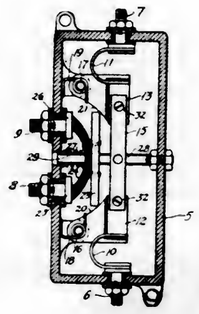
1,422,109. PROPELLER. FRANK WILSON LAMBERT, Hancock, Iowa. Filed Oct. 21, 1921. Serial No. 509,356. 2 Claims. (Cl. 170—170.)



1. A propeller comprising a hub, a blade radial thereto and having a surface contour adapting it to exert a pro-

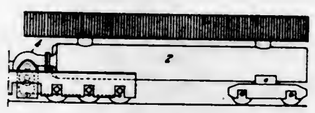
pelling force in action, and a circumferential fluid compression blade carried at the outer end of the radial blade and disposed diagonally to the axis of the hub, the working surface of the last mentioned blade being relatively gradually transversely curved at the advancing end of the blade and of gradually increasing transverse curvature in the direction of the hub and of the blade.

1,422,110. INTERLOCK CIRCUIT PROTECTOR. JUSTIN LEBOVICI, Oakley, Ohio, assignor to The Triumph Electric Company, a Corporation of Ohio. Filed Apr. 26, 1919. Serial No. 292,976. 9 Claims. (Cl. 175—294.)



7. The combination with a polyphase circuit of a fuse in the circuit of each of said phases respectively, a circuit breaking element in the circuit of each of said phases respectively and openable independently of each other, said circuit breaking elements being biased to move to open position, and means whereby the fuse of each circuit respectively holds in closed position one of said circuit breaking elements connected in the phase of another circuit.

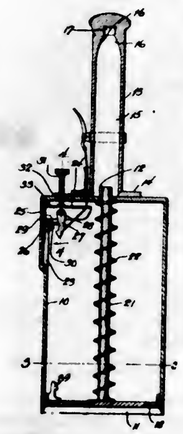
1,422,111. TURBINE-DRIVEN LOCOMOTIVE. FREDRIK LJUNGSTROM, Brevik, Lidingon, Sweden, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden, a Corporation. Filed Oct. 19, 1921. Serial No. 508,896. 6 Claims. (Cl. 105—38.)



1. In locomotives in which the driving wheels are actuated by turbines with the assistance of toothed gearings, and provided with a boiler carriage and a condenser placed on a separate carriage, the arrangement that one or more high pressure turbine systems with driving devices are disposed on the boiler carriage and one or more low pressure turbine systems with driving devices are disposed on the condenser carriage.

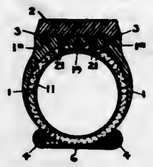
1,422,112. MEASURING DEVICE. EMORY HAMMETT LORD, Washington, D. C. Filed Mar. 4, 1920. Serial No. 363,352. 5 Claims. (Cl. 73—165.)

1. In a measuring device, a container portion open at one end, a handle, a plunger movably mounted in said container portion, means to yieldingly retain said plunger normally in its forwardmost position, means carried by said container portion to limit the rearward movement



of said plunger, and said last-named means being adjustable to vary the limit of backward movement of said plunger.

1,422,113. PNEUMATIC TIRE. WILLIAM MCEWEN, Waiuku, Auckland, New Zealand, assignor of one-half to William Cory Scott Hosking, Waiuku, Auckland, New Zealand. Filed Dec. 13, 1918, Serial No. 266,533. Renewed Apr. 18, 1922. Serial No. 555,235. 1 Claim. (Cl. 152—19.)



In combination, a pneumatic tire having the inner edges of its walls connected and the outer edges of its walls disconnected and thickened to form a relatively broad external peripheral face and having annular grooves in said peripheral face of the tire; a detachable tread having a broad internal peripheral face to substantially match the external peripheral face of the tire, said internal peripheral face of the tread having annular ribs adapted to fit into and match the annular grooves in the external face of the tire whereby when said tread is attached to said tire the former is held to the latter against movement laterally thereof, said tread being split transversely to permit its being wrapped around the tire in being mounted thereon, the walls of said annular grooves in the tire being parallel with each other and substantially perpendicular to the axis of rotation of the tire and the walls of said ribs being likewise formed so that the tread can be mounted on the tire by merely wrapping the same around the tire, the ribs seating themselves in said grooves; and means for securing the ends of said tread together to hold the same firmly to the tire.

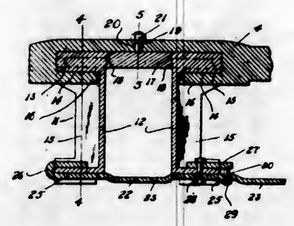
1,422,114. AIR-TIGHTLY SEALING COMPOSITION FOR METAL CONTAINERS, SPECIALLY THOSE FOR FOOD. JAMES HENRY MACKENZIE, Sydney, New South Wales, Australia. Filed Aug. 19, 1920. Serial No. 404,655. 4 Claims. (Cl. 106—8.)

1. A glutinous composition for sealing tins consisting of a pasty mass of flour, gums, and water, sufficient glycerine to emulsify the mass, sufficient rosin to render said mass tenacious and sufficient methylated spirit to dissolve said rosin.

1,422,115. COMPOSITION FOR TREATING MANUFACTURED RUBBER. RHETHERFORD B. MARTIN, New York, N. Y. Filed May 20, 1919. Serial No. 298,421. 7 Claims. (Cl. 134—1.)

5. A composition for treating manufactured rubber containing a larger portion of phenylamine and a smaller portion of cotton seed oil.

1,422,116. RAILWAY TRUCK. SAMUEL A. MATHERS, Chillicothe, Ohio. Filed Jan. 12, 1921. Serial No. 436,656. 3 Claims. (Cl. 105—206.)



1. In a truck, a frame, said frame having the ends thereof formed to include longitudinal sockets, spaced pedestals arranged to be received within said sockets by longitudinally separating the pedestals, a spacing block positioned between the upper ends of said pedestals and operating to maintain the latter positively in spaced relationship, and braces secured to the lower end of said pedestals and serving to connect the latter positively with said frame.

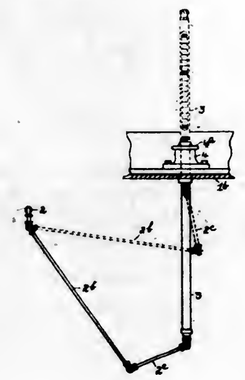
1,422,117. GUARD CHAIN FOR PNEUMATIC TIRES. FRANCIS L. MEAKLE, Portland, Me. Filed May 31, 1921. Serial No. 473,890. 2 Claims. (Cl. 152—16.)



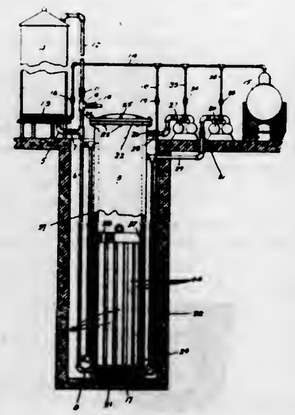
1. An armor for pneumatic tires consisting of a series of hollow sections in contact, each extending across the tread and up on the sides of the tire to be held in position by lateral friction, each end of each section having a radially projecting flange, a U-shaped connecting coupling fitting over adjacent flanges, said couplings and said flanges having corresponding bolt holes with connecting bolts for securing said sections together.

1,422,118. LEVEL-REGISTERING MEANS. FRANK W. MERRITT and ALFRED E. WATTS, Duluth, Minn. Filed Apr. 4, 1921. Serial No. 456,393. 1 Claim. (Cl. 33—209.)

The combination with a vessel including a hull and a deck, a fluid reservoir having flexible terminals at its opposite ends, a vertically disposed fluid operated level gauge mounted upon each of said terminals and adapted to communicate therewith, said gauges being adapted to stand so that the zero or central horizontal gauge lines on both of them will be in the same horizontal plane when said vessel is level, housings mounted on said deck in registration with said gauges, said gauges being adapted to normally extend into said housings and in operation to extend upward through said housings, and means for supporting said gauges in raised position.

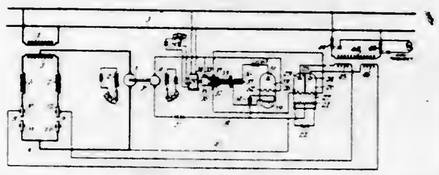


1,422,119. METHOD OF AND APPARATUS FOR TREATING TIMBER AND THE LIKE. AUGUST MEYER, Minneapolis, Minn., and PHILIP R. WALSH, St. Louis, Mo., assignors, by mesne assignments, to Duplex Holding Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 3, 1921. Serial No. 489,471. 4 Claims. (Cl. 99—12.)



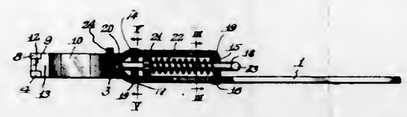
1. The herein described process of treating a predetermined portion of a piece of timber with a preservative liquid by immersing a terminal portion thereof to the desired extent in the treating liquid, and producing a pressure above the liquid and about the free extending portion of the piece of timber to cause a penetration of the liquid.

1,422,120. REGULATING AND CONTROL APPARATUS AND SYSTEM. FRIEDRICH WILHELM MEYER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 24, 1920. Serial No. 368,330. 7 Claims. (Cl. 171—119.)



1. A regulator for regulating a machine subject to variations in load and power conditions, having in combination an open air arc discharge rectifier for regulating the machine, and electrolonic means subject to the varying conditions for controlling the arcs of said rectifier.

1,422,121. RATCHET WRENCH. RUDOLPH A. MILLER, Detroit, Mich. Filed Nov. 10, 1919. Serial No. 336,798. 1 Claim. (Cl. 81—60.)



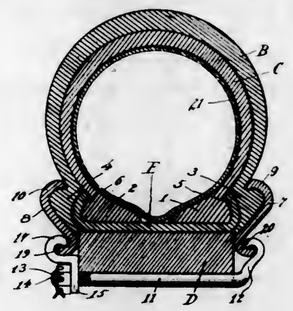
A ratchet wrench comprising a flat bar having a head at its outer end provided with a slot, a flat plate disposed in parallelism with the outer end of said bar and having a head with a slot therein, said plate having its inner end bent and anchored in said bar to form an end wall, a transverse partition between said bar and plate adjacent the heads thereof, tongues on said partitions extending into said bar and plate and anchored therein, a ratchet nut engaging collar journaled in said bar and plate heads with the ratchet portion of said collar extending between said heads, said collar having a slot adapted to register with the slots of said bar and plate heads, a pawl slidable and rotatable in said partition and the end wall of said plate and having its outer end normally engaging said ratchet nut engaging collar, an abutment on said pawl adjacent said partition, a spring encircling said pawl between said abutment and the end wall of said plate and holding said pawl in engagement with said ratchet nut engaging collar, and a crank on the inner end of said pawl for turning said pawl so that the action thereof relative to ratchet nut engaging collar may be reversed.

1,422,122. FUSE. JOHN ALLAN NELSON, Charleston, S. C. Filed Jan. 12, 1920. Serial No. 350,862. 1 Claim. (Cl. 200—130.)



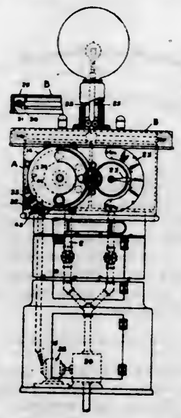
A screw plug fuse of the class described, comprising a cup-shaped body portion made of insulating material and having the usual metallic screw sleeve about a portion of its exterior side surface, a transparent closure for the top of the body portion, a metallic button seated in the exterior bottom surface of the body portion, centrally thereof, a rod having its one end secured to the metallic button and extending upwardly through the bottom of the body portion, and its upper end terminating at a point in close proximity to the transparent closure, projections extending from said rod and engaging the bottom surface of the body portion of the plug and adapted to cooperate with the metallic button for holding said rod against longitudinal movement, and a coiled fuse element having its inner end connected to the upper end of the rod and its other end extended through the side wall of the body portion of the plug and connected with the threaded metallic sleeve.

1,422,123. TWO-IN-ONE RUBBER TIRE. WILLIAM O'CONNELL, Cincinnati, Ohio. Filed Dec. 31, 1919. Serial No. 348,628. 2 Claims. (Cl. 152—17.)



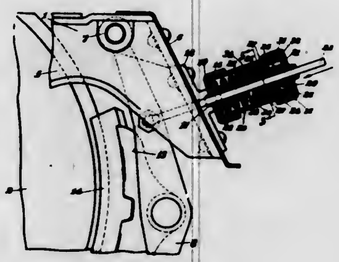
1. A wheel for vehicles provided with a rim and pneumatic tire thereon, and an auxiliary beaded casing embracing the main casing, of a pair of annular bands of an ogee curve in cross section forming oppositely disposed hooks, the hooked portion on the edge of the bands engaging the beads of the auxiliary casing, and the bodies of the bands lying against the outside inwardly sloping surfaces of the beads, and fastening devices secured underneath the wheel felloe and engaging the hooked portions of the other edge of the bands, with means for drawing the fastening devices toward each other to draw and lock the auxiliary casing in place.

1,422,124. DISPENSING TANK. WILLIAM HERMAN OPITZ, Fort Wayne, Ind. Filed Aug. 16, 1919. Serial No. 317,920. 2 Claims. (Cl. 221—100.)



1. A dispensing tank having in combination therewith means for charging liquid into the tank, an overflow pipe, a plurality of openings arranged in the arc of a circle and vertically spaced at distances from the inlet to the overflow pipe proportional to the quantities of liquid to be withdrawn from the tank, a rotatably mounted gate or valve provided with a port and means for rotating the gate or valve to bring said port into alinement with any of the spaced openings.

1,422,125. RELEASE AND TAKE-UP DEVICE FOR BRAKES. ALFRED K. PEHRSON, Pittsburgh, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Nov. 17, 1919. Serial No. 338,497. 15 Claims. (Cl. 188—199.)



5. In a brake mechanism, the combination with a car truck frame, of a car wheel, a brake shoe movable into and out of engagement with said wheel, and a friction device mounted on said frame and connected with said mechanism for maintaining the face of the shoe a predetermined distance from said wheel when the brake is released, said means being adapted to compensate, when the brake shoe is applied to the wheel, for any wear of the face of the shoe or tread of the wheels.

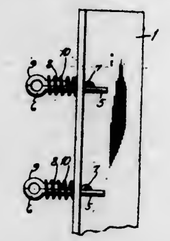
1,422,126. METHOD AND APPARATUS FOR HANDLING COMESTIBLES. PAUL W. PETERSEN, Chicago, Ill. Filed Oct. 12, 1921. Serial No. 507,170. 6 Claims. (Cl. 99—14.)



1. The method of handling comestibles, such as fish and the like, for refrigerating them substantially en masse which consists in arranging the comestibles in regular formation to fill an open scoop-shaped container, then placing said scoop-shaped container in the open end of a second upright thin-walled and water-tight container wherein said first container is fitted to slidingly engage therewith, and then immersing said second container in a refrigerant to a level not permitting the entry of the refrigerant into the second container but substantially on a par with or above the level of the comestibles contained therein.

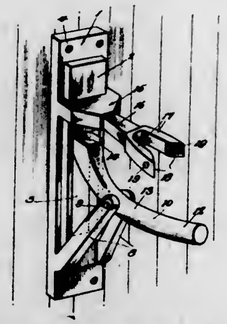
2. An apparatus for handling comestibles comprising an open pan, a telescopic lid therefor, and a second water-tight can having an open end wherein said pan and lid may be inserted, said can having a tapering form longitudinally of its length and width and slidingly engaging with said pan and lid.

1,422,127. WIRE-FENCE FASTENER. VALDEMAR PETERSEN, St. Ansgar, Iowa. Filed Sept. 28, 1921. Serial No. 503,832. 2 Claims. (Cl. 256—48.)



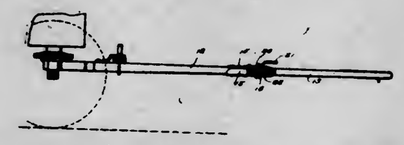
1. In a wire fence fastener, a clip bar terminating at on end in a head, a finger bar pivotally secured to said clip bar and formed with a head adapted to cooperate with the clip bar head, a straight finger pivotally secured to said clip bar, and a spring adapted to encircle said clip bar and one finger.

1,422,128. HARNESS HOOK. HARVEY W. RAGER, Ponca, Nebr. Filed Apr. 19, 1921. Serial No. 462,617. 2 Claims. (Cl. 248—24.)



1. In a device of the class described, an attaching plate provided with a perpendicular slot terminating with flat top and bottom end walls, arms extending forwardly from the plate, a hook pivotally supported between the ends of said arms, an inwardly extending shank on said hook engaging in said slot and adapted to abut with said top and bottom end walls respectively in open and closed positions of said hook, and a bifurcated keeper integral with said plate adapted to receive the free end of said hook when in closed position.

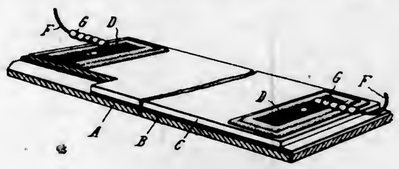
1,422,129. TRACTION COUPLING. JOSEPH C. REUSS, Libertyville, Ill. Filed Mar. 16, 1921. Serial No. 452,664. 1 Claim. (Cl. 280—33.2.)



In combination, a vehicle having a forwardly extending pole comprising front and rear sections of approximately equal length, a hinge secured to the top of said pole for connecting adjacent ends of said sections, a channel mem-

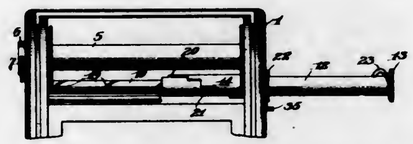
ber secured to the under side of said rear section adjacent the front end thereof and projecting beyond said section for receiving the rear end of said front section and for holding said sections in alignment with one another, a pin having a threaded end arranged to pass through the projecting portion of said channel member and the rear portion of said front section, a nut arranged to be threaded on to said pin for holding said channel member and front section in rigid relation to one another, said channel member having an opening therein for receiving a coupling device when said front section is folded, a double-tree for said vehicle, a pin for securing said double-tree to said pole adjacent the rear end of said rear section, and a ring carried by the upper end of said pin and arranged to receive the free end of said front section when said front section is folded backwardly along the upper face of said rear section.

1,422,130. ELECTRICAL HEATER RESISTANCE ELEMENT. ROBERT WOOLRIDGE REYNOLDS, Darlinghurst, near Sydney, New South Wales, Australia. Filed Feb. 18, 1921. Serial No. 446,079. 4 Claims. (Cl. 219—76.)



1. An electrical heater resistance element consisting of an electrically insulating support, terminal wiring attachments mounted on said support, a painted on and dried out film surface containing a water-washed chemically precipitated silicic vehicle, and powdered graphite incorporated in said silicic vehicle.

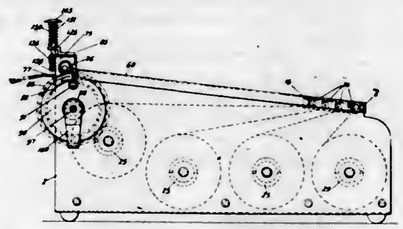
1,422,131. FILM-WINDING MECHANISM FOR CAMERAS. WILLIAM A. RIDDELL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 16, 1918. Serial No. 222,799. 11 Claims. (Cl. 242—71.)



7. In a film camera, the combination with a film winding roll and driving means therefor embodying a push rod and mechanism for converting the reciprocatory motion thereof into rotary motion, of means for progressively limiting the actuating movement of the push rod comprising a rotary sleeve surrounding the latter and provided with a plurality of stepped stops and with a ratchet, an abutment on the push rod adapted to cooperate, singly, with said stops when the push rod is moved in one direction and a spring finger on the latter adapted to engage the ratchet and rotate the sleeve when the push rod is moved in the opposite direction.

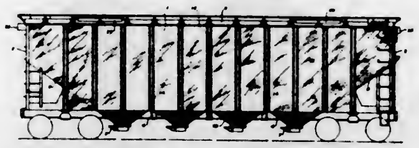
1,422,132. AUTOGRAPHIC REGISTER. HERBERT L. ROBERTS, Toronto, Ontario, Canada, assignor to Business Systems, Limited, Toronto, Ontario, Canada, a Corporation of Canada. Filed Sept. 24, 1918. Serial No. 255,481. 8 Claims. (Cl. 282—21.)

1. In a machine of the character described, the combination of a feed roll mounted in fixed bearings, a spring pressed frame pivotally mounted adjacent to said fixed feed roll, a second feed roll journaled in said frame, suitable registering means adapted to relatively shift super-



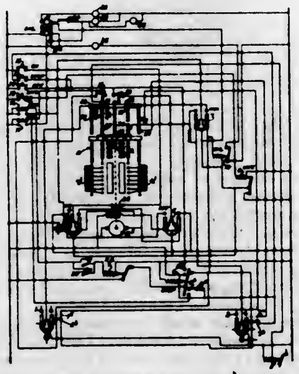
posed webs into registered position, and means for rocking said frame for simultaneously separating said feed rolls and actuating said registering means.

1,422,133. GRAIN CAR. WILLIAM J. ROBIDER, Westmount, Quebec, Canada. Filed Dec. 9, 1920. Serial No. 429,408. 9 Claims. (Cl. 105—248.)



1. In a railway car having metal sides and ends, a metal center sill, a plurality of metal hoppers correspondingly arranged on each side having longitudinal walls inclined downwardly from the car sides and center sill, and transverse walls inclined downwardly at a lesser angle with the adjacent meeting edges forming equal angles and having discharge openings and closures at the bottom, a metal partition extending from side to side and from between the adjacent walls of the middle hoppers to near the top of the sides and a removably mounted metal roof.

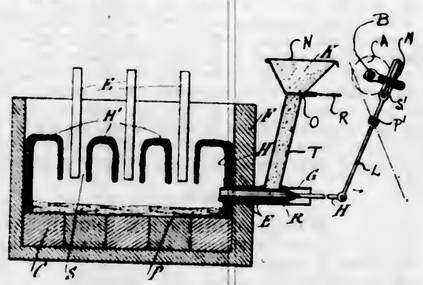
1,422,134. MOTOR CONTROLLER. THOMAS H. RODMAN, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 27, 1920. Serial No. 406,505. 14 Claims. (Cl. 172—179.)



3. In a motor controller in combination power operated starting and stopping means, a control station there-

for including starting, stopping and resetting elements and connections requiring operation of said resetting element as a prerequisite to use of said starting element for restarting after operation of said stopping element.

1,422,135. METHOD OF MANUFACTURING CALCIUM CARBIDE. WILLIAM B. ROGATZ, Plattsburg, N. Y., assignor to Farmers Standard Carbide Co., Plattsburg, N. Y., a Corporation of New York. Filed May 5, 1921. Serial No. 467,176. 6 Claims. (Cl. 204—62.)



1. In the art of making calcium carbide in an electric furnace, that step in the art which consists in feeding the material through the wall and side crust of the furnace and above the molten material in the furnace and below the top crust of the furnace.

1,422,136. MATRIX MANUFACTURE. JOSEPH L. ROUSSEAU, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Aug. 1, 1921. Serial No. 488,865. 5 Claims. (Cl. 101—401.2.)



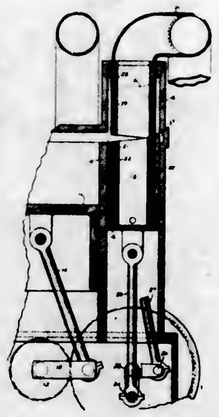
1. In the art of manufacturing matrices, providing an oversized blank, forming in the edge of said blank a notch of a depth not to extend below the final edge of the matrix, punching the character impression in the bottom wall of said notch and of a depth to extend below the final matrix edge, and thereafter dressing down the blank edge to produce the final matrix edge.

1,422,137. ART OF MANUFACTURING MATRICES. JOSEPH L. ROUSSEAU, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Aug. 1, 1921. Serial No. 488,866. 5 Claims. (Cl. 101—401.2.)



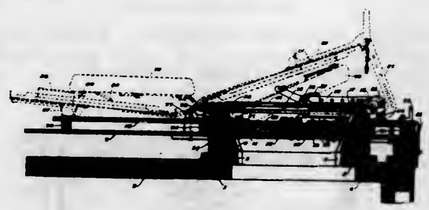
1. In the art of manufacturing plural-character matrices, providing a blank with a raised portion on its character edge occupying the zone intermediate two adjacent character zones, punching the matrix characters in their respective zones, and thereafter dressing down the raised portion to the edge of the blank.

1,422,138. VALVE MECHANISM FOR GAS ENGINES. EPPA H. RYON, Waltham, Mass. Filed Aug. 18, 1919. Serial No. 318,076. 7 Claims. (Cl. 123—188.)



1. A valve mechanism for gas engines having a cylinder and piston, comprising a cylindrical casing, a plurality of co-operating fixed and movable concentric sleeves oppositely disposed within said casing, said sleeves being reversely beveled at their adjacent ends to form a port for the passage of gases when partially separated, and means to operate said movable sleeves in timed relation to said engine piston to open and close said port.

1,422,139. HATCH COVER FOR REFRIGERATOR CARS. AUGUST G. SANDMAN, Baltimore, Md. Filed Dec. 13, 1920. Serial No. 430,250. 7 Claims. (Cl. 105—377.)

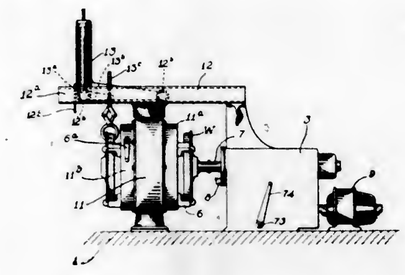


1. In a refrigerator car having a hatchway in the roof thereof, hatch timbers about the hatch, a hatch plug fitting between the hatch timbers, a hinged hatch cover and means adapted for detachably engaging the plug to the cover.

1,422,140. CAR-WHEEL-BORING MACHINE. WILLARD T. SEARS, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 6, 1920. Serial No. 401,719. 38 Claims. (Cl. 29—38.)

1. In a boring machine, the combination of a base, a substantially vertically extending work holder thereon comprising a chuck, a tool support also mounted on the base, a tool mounted in the tool support, means extend-

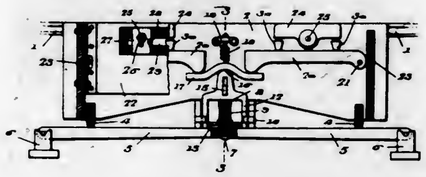
ing across the tops of the work holder and tool support and rigidly connecting such members, and means for causing relative rotating and feeding movements between the tool and chuck.



15. In a boring machine, the combination of a base, a work-holding turret comprising two chucks mounted on the base for movement about an approximately vertical axis whereby either chuck may be placed in the tooling position and the other chuck in the work-chucking position, a tool support also mounted on the base, means rigidly connecting the turret and tool support, a boring bar mounted in the tool support coaxially of the chuck in the tooling position, wedge means for securing the turret in the working position, and means for causing relative rotating and feeding movements between the bar and last mentioned chuck.

30. In a boring machine, the combination of a base, a work holder thereon, a boring bar, a fluid pressure cylinder operatively connected to the bar, a piston operative within the cylinder, a piston rod connecting the piston to the base, two fluid pressure pipes, fluid pressure conduits through the piston rod connecting the pipes to the opposite sides of the piston respectively, valves in the pipes for controlling the flow of fluid to the opposite sides of the piston, means connecting such valves and adapted in one position to leave a restricted opening through one valve whereby the flow of fluid is regulated to slowly feed the boring bar forward and in another position to leave a full opening through such valve whereby the flow of fluid in the opposite direction may be rapid to permit the rapid withdrawal of the bar, and means for rotating the bar.

1,422,141. WEIGHING MECHANISM. STEPHEN WALTER SHUFORD, Woodlawn, N. C. Filed Aug. 8, 1919. Serial No. 316,142. 5 Claims. (Cl. 265—9.)



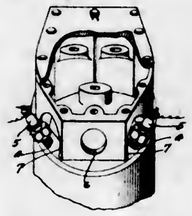
1. A weighing apparatus embodying a yieldable platform arranged for the movement of railroad cars thereover, a recording device having a recording member operatively connected to said platform to be positioned by the depression of the platform, and means operated by the wheels of the cars and adjustable with respect to the platform longitudinally of the line of movement of the cars for bringing the recording member into operation to make a record when the car is moved on the platform to a predetermined position.

1,422,142. EXTENSION-TABLE SLIDE. HARRY N. SMITH, Watertown, Wis., assignor to Watertown Table Slide Company, Watertown, Wis., a Corporation of Wisconsin. Filed July 26, 1921. Serial No. 487,664. 3 Claims. (Cl. 45—115.)



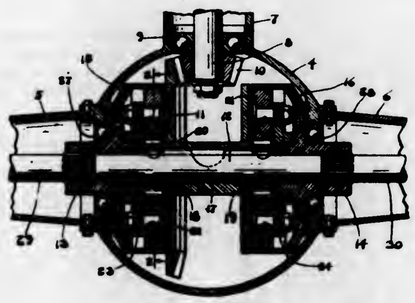
1. The combination of slide-bars having longitudinal recesses therein, and a block having an upper surface, a second surface, spaced lower than said first mentioned upper surface, a lower surface spaced below said second upper surface, and a second lower surface spaced below said first mentioned upper surface, the distances between said upper surfaces being unequal to the distances between said lower surfaces, and said slide-bars receiving said block in said recesses and contacting with said surfaces.

1,422,143. INTERNAL-COMBUSTION ENGINE. WILLIAM J. SNADECKI, Bridgeport, Conn., assignor to Richard Crane, Washington, D. C. Filed May 13, 1918. Serial No. 234,127. 1 Claim. (Cl. 123—55.)



In combination with the cylinder head of an internal combustion engine, two exhaust outlets at one side and a gas inlet opposite thereto, a spark plug at each side of said inlet, said spark plugs passing through said cylinder head at such an angle that when said cylinders are mounted in a V-type engine said spark plugs are substantially vertical, a clearance through said cylinder head around said spark plug, said cylinder head providing water-jacketing means around said outlets and detachably secured to said cylinder.

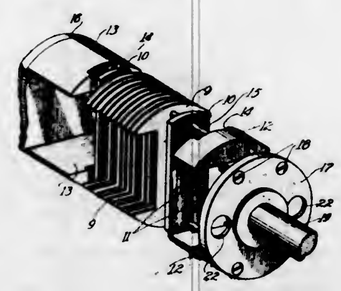
1,422,144. POSITIVE BOTH-WHEEL-DRIVE DIFFERENTIAL. ALBERT B. SOWDEN, Covington, Ky. Filed Apr. 29, 1920. Serial No. 377,637. 1 Claim. (Cl. 74—7.)



In a single differential housing supported by torque tube and axle housings, a short driven shaft within said

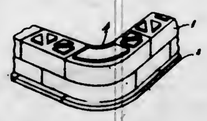
housing, an axle in each axle housing, a pair of drums having hubs rotatively mounted on said short driven shaft and having detachable driving connection with said axles respectively, a gear fixed on the driven shaft, within each drum, a rotatively mounted disk in each drum, a series of double faced cams pivotally mounted on each disk adapted to be moved into clamping engagement with said drums respectively, in either direction and having gear teeth thereon meshing with the teeth of said gears, respectively, a beveled gear keyed on said short driven shaft between said drums and having means to close said drums respectively, a beveled pinion engaging said beveled gear and a drive shaft on which said beveled pinion is keyed, substantially as set forth and for the purposes specified.

1,422,145. ARMATURE FOR MAGNETO MACHINES. JOHN ROY STARK, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed Aug. 25, 1920. Serial No. 405,958. Renewed Nov. 25, 1921. Serial No. 517,837. 4 Claims. (Cl. 171—207.)



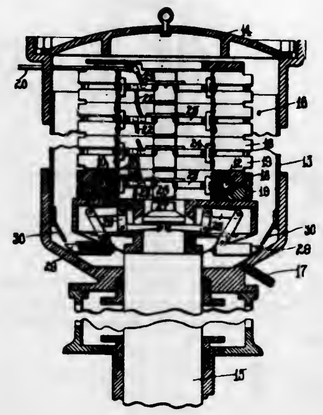
1. An armature for a magneto machine comprising a core structure consisting of a group of substantially I-shaped laminæ and a pair of bars, one disposed on each side of the laminæ and rigidly secured thereto, segmental blocks disposed at the ends of the core structure and provided with notches whereby the blocks may embrace said bars, and means extending through the blocks and through the core structure arranged to hold the blocks upon the core structure.

1,422,146. BUILDING BLOCK. WILLIAM TACKENBERG, Cincinnati, Ohio. Filed Nov. 29, 1921. Serial No. 518,662. 1 Claim. (Cl. 72—38.)



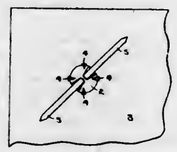
In building blocks, triangular lugs and depressions, on opposite sides thereof, said lugs and depressions being arranged to interlock between superimposed blocks to secure the same against displacement in all directions in horizontal planes, and the abutting surfaces of the lugs on one end of the block corresponding in disposition to the engaging surfaces of the depressions on the other end of the block, so as to necessitate breaking of joints between courses.

1,422,147. METHOD OF TREATING RUBBER ARTICLES. EDWARD C. TAYLOR, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Oct. 7, 1920. Serial No. 415,366. 3 Claims. (Cl. 18—53.)



1. The method of vulcanizing an assembled tire casing comprising locating the casing on a hollow core, directing a cooling medium into the interior of the core, subjecting the exterior of the casing to heat, and subsequently applying molding pressure and vulcanizing heat to the casing.

1,422,148. PAPER FASTENER. ARTHUR STANLEY TONKIN, Lyndhurst Road, Hastings, New Zealand, assignor of one-half to Ivan Biggar Logan, Napier, New Zealand. Filed Aug. 8, 1921. Serial No. 490,614. 2 Claims. (Cl. 24—153.)

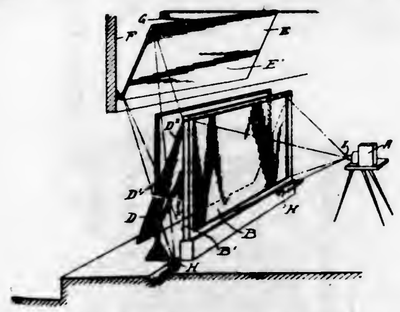


1. A paper fastener comprising, a member bevelled at its outer edge and also provided at its edge with a plurality of bendable prongs adapted to pass through a backing from the outer side, a separate member adapted to be placed between said prongs and secured on the inner side of the backing when said prongs are bent inwardly, and a pair of elongated prongs on said member upon which papers are passed.

1,422,149. SCREEN FOR MOTION PICTURES. JOHN F. R. TROEGER, New York, N. Y., assignor, by mesne assignments, to American Lux Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 3, 1919. Serial No. 335,233. 3 Claims. (Cl. 88—24.)

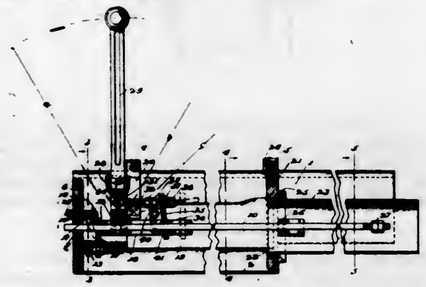
1. The combination of two screens the surfaces of which

are arranged at an angle to each other for the purpose specified and a reflector for reflecting light to the surface



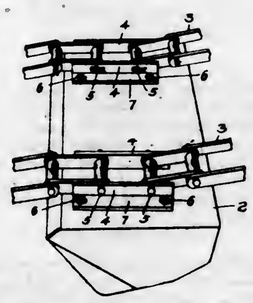
of one of said screens, said reflector having its reflecting surface made of fibrous material.

1,422,150. APPARATUS FOR FORMING CONCRETE PIPES. DANIEL N. TRULLINGER and LEO A. GRANGER, Fresno, Calif. Filed Aug. 19, 1920. Serial No. 404,544. 9 Claims. (Cl. 25—32.)



1. An apparatus for the purpose set forth comprising a shell, a core disposed longitudinally within the shell, a head supported upon the shell and adapted to travel longitudinally thereof and normally fitting around the front end of the core, and means whereby the shell, the head and the core may each be shifted longitudinally relative to the others.

1,422,151. CHAIN ATTACHMENT FOR ELEVATOR BUCKETS. HENRY B. WALKER, Lancaster, Ohio. Filed Apr. 12, 1920. Serial No. 373,325. 1 Claim. (Cl. 198—151.)



A chain connection for elevator buckets comprising angle-links extending beyond the link-pins, and fastening devices located beyond the link-pins for securing the said angle-links to said buckets.

1,422,152. STAMP RECEIVER. EDWARD MASON WALSH, Monroe, Wash. Filed Jan. 6, 1921. Serial No. 435,498. 3 Claims. (Cl. 216—21.)



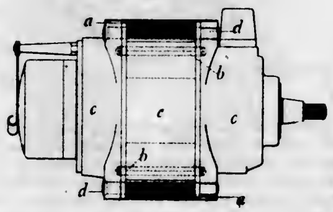
1. In a device of the class described, a stamp guide; a tank extended longitudinally of the guide and provided with a swab located adjacent to one end of the guide; a head including arms between which the other end of the guide and the corresponding end of the tank are received; a yoke receiving the arms; a clamping element in the yoke and coacting with one arm to bind the tank and the guide between the arms; and means carried by the head for supporting a roll of stamps for feeding through the guide and upon the path traversed by the swab.

1,422,153. TRUSS PAD. HERBERT A. WARREN, Woburn, Mass. Filed Aug. 17, 1921. Serial No. 492,899. 3 Claims. (Cl. 128—119.)



1. A truss pad comprising an annular body having a base portion, formed to bear on a supporting member, a socket extending inwardly from the outer side of the body, and of greater diameter at its outer than at its inner end, the latter being open; a pressure applicator including a shank extending entirely through the socket, and having an enlargement at its inner end, and an enlarged head of greater diameter than the socket; and a spring which normally holds the shank enlargement against the inner end of the socket, and the head offset from the outer side of the body, the shank and socket being formed to permit a universal tipping movement of the applicator relatively to the body, on a fulcrum formed by the inner end of the socket, said movement being limited by the bearing of a portion of the enlarged head against the outer side of the body.

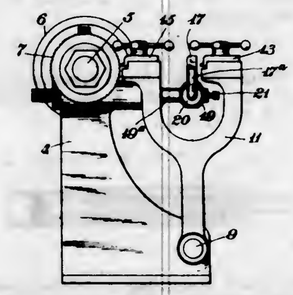
1,422,154. DYNAMO-ELECTRIC MACHINE. EARNEST ANSLEY WATSON, Coventry, England, assignor to The M-L Magneto Syndicate Limited, Coventry, England. Filed Oct. 24, 1921. Serial No. 510,098. 2 Claims. (Cl. 171—209.)



1. In a dynamo electric machine the combination of separate opposed end members having recesses in the

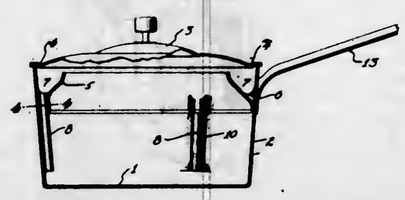
inner faces thereof, permanent magnets confined between said end members, laminated pole pieces located between the end members having openings extending from end to end thereof alining with said recesses, removable pins located in said openings and being of greater length than said pole pieces and projecting beyond the ends of each of the latter, each pin having its opposite ends removably seated in two alined recesses in the opposed end members, and fastening means removed from the pole pieces and passing through the end members for securing the whole together.

1,422,155. KEY-DUPLICATING MACHINE. WILLIAM C. WETHERHOLT, Columbus, Ohio. Filed June 2, 1919. Serial No. 301,348. 1 Claim. (Cl. 90—13.2.)



A key-cutting machine including, in combination, a frame, a rotary cutter carried by the frame, a vertically disposed swinging fork arm having the terminals of its branches lying in substantially the same horizontal plane and in the plane of the axis of the cutter, means for securing a key to be duplicated in one terminal of the fork arm, means for securing a key blank in the other terminal of the fork arm, a pilot supporting means comprising a stem secured in the frame and adjustable transversely the cutter axis, and a pilot secured in said stem and adjustable transversely thereof.

1,422,156. COOKING UTENSIL. BEULAH L. WEVER, Savannah, Ga. Filed Dec. 13, 1921. Serial No. 522,115. 4 Claims. (Cl. 53—1.)



1. A cooking utensil comprising a bottom and side portion arranged to form a vessel, an inwardly-flaring flange disposed on the upper, inner portion of the side to constitute a gutter around the upper inner edge of the vessel and leave a clear interior cooking space for articles to be cooked within the vessel, and a duct leading from the interior of the gutter to the lower portion of the interior cooking space within the vessel.

1,422,157. BAR-SPACING DEVICE. WILLIAM E. WHITE, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,339. 5 Claims. (Cl. 72—122.)

2. In a bar spacer, the combination of a single continuous length of wire, and wire chairs welded thereto at intervals, said chairs being composed of a portion lying alongside of said length of wire and beneath the same,



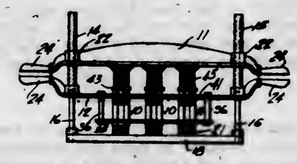
and two legs joined to said portion and one thereof bent over the wire, substantially as described.

1,422,158. MEANS FOR CONNECTING TWO ELEMENTS. JOHN H. WILLIAMS, East Cleveland, Ohio, assignor to The Outlook Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 19, 1920. Serial No. 404,567. 4 Claims. (Cl. 287—53.)



1. In combination, a shaft having a flattened portion, a crank having an aperture for the reception of the shaft, means encircling the crank and adjustable longitudinally of the same for engagement with the flattened portion of the shaft for retaining the crank against angular movement with respect to the shaft.

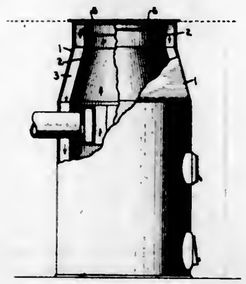
1,422,159. WASHER-PLACING APPARATUS. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 16, 1916, Serial No. 137,368. Renewed Dec. 17, 1920. Serial No. 431,500. 25 Claims. (Cl. 18—1.)



1. A washer-placing apparatus, having in combination, heel molds and washer-supporting pins fixed therein, guide posts in fixed relation with said pins, pins for holding stacks of reserve washers arranged correspondingly to

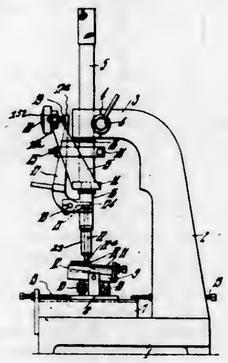
the arrangement of the washer-supporting pins, guide posts fixed in the same relation with the reserve stack pins as the formed guide posts bear to the washer-supporting pins, and a member guided in its operation by the guide posts for transferring the washers from the reserve stacks to the washer-supporting pins.

1,422,160. FURNACE CONSTRUCTION. WILBERT G. WISE, Akron, Ohio. Filed Dec. 5, 1921. Serial No. 519,807. 8 Claims. (Cl. 126—99.)



1. In a furnace construction having an inner and an outer casing, a stiffening member at the upper end of the inner casing, a register over the casings and formations on the register adapted to engage the member to hold the inner casing.

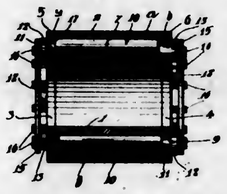
1,422,161. GAUGE. IRVIN FLINN WOODROW, Philadelphia, Pa., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Sept. 30, 1918. Serial No. 256,315. 20 Claims. (Cl. 33—147.)



1. In a device of the character described, a base, a plate reciprocatively mounted thereon, a holder pivotally mounted on said plate, and a contact element supported in position to engage an article carried by said holder.

1,422,162. ROLLER BEARING. OSWALD F. ZAHN, Los Angeles, Calif., assignor to Zahn Self Righting Roller Bearing Company, Los Angeles, Calif., a Corporation of California. Filed July 15, 1920. Serial No. 396,432. 3 Claims. (Cl. 64—62.)

1. A roller bearing comprising spaced inner and outer bearing members, inner and outer thrust rings at the ends of the bearing members respectively, two sets of rollers between the bearing members having annular grooves, the rings at one end engaging the grooves of only one set of rollers and the rings at the opposite end



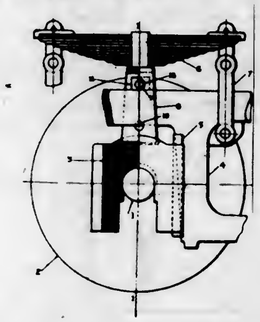
engaging the grooves of only the second set of rollers, and the rollers of one set being interposed between the rollers of the other set.

1,422,163. DOOR CHECK. PETER ZIMBELMANN, Aurora, Ill. Filed July 19, 1920. Serial No. 397,523. 4 Claims. (Cl. 16—84.)



1. A door check comprising a tubular housing; a threaded stem fitting into said housing; a piston adjustably threaded on said stem and operating in said housing; and a second housing mounted for movement with said stem and slidably fitting over said first mentioned housing, substantially as described.

1,422,164. FRAME SUPPORT. FRANK M. A'HEARN, Greenville, Pa. Filed Feb. 21, 1922. Serial No. 538,215. 6 Claims. (Cl. 105—82.)

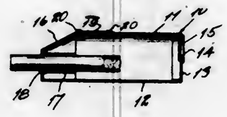


1. In a frame support, the combination of a frame; a saddle straddling the frame; a bearing box supporting the saddle, said saddle having perforated sides; a supporting block arranged between the legs of the saddle and operating against the frame and forming a support, said block having a perforation therethrough; and a pin extending through the perforations in the saddle and the block.

1,422,165. ASH RECEPTACLE. LEON AITOWICZ, Yonkers, N. Y. Filed July 20, 1921. Serial No. 486,220. 2 Claims. (Cl. 131—51.)

2. A device of the class described comprising, a hollow body, a flattened bottom wall for said body, a perforated end closure for the outer end of the body, a frusto-conical

member at the opposite end of the body, said frusto-conical member having an axial opening therein, a collar extending inwardly from the end wall of the frusto-conical member, and terminating in a plane with the inner end of the hollow body, said collar being in axial



alinement with the opening and being slightly enlarged near its outer end, the body having a window adjacent the frusto-conical member, guide at opposite ends of the window and a closure slidably mounted in the guides for closing the window.

1,422,166. PHONOGRAPH-RECORD BRUSH. EDWARD J. BAKULA, St. Louis, Mo. Filed Apr. 15, 1921. Serial No. 461,527. 1 Claim. (Cl. 15—210.)

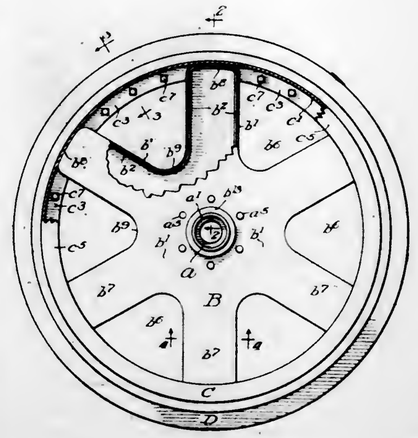


A phonograph record brush comprising a relatively thin disk of suitable diameter, a covering of fibrous material attached to the lower surface of the said disk and having its marginal edges secured to the peripheral edge of the said disk, the said material being stretched taut across the surface of the disk, a knob, a pivot pin carried by the disk and rigidly thereto, the said pivot pin being extended through a central opening in the said knob whereby the said disk may freely revolve with the said pivot pin while the knob is held stationary

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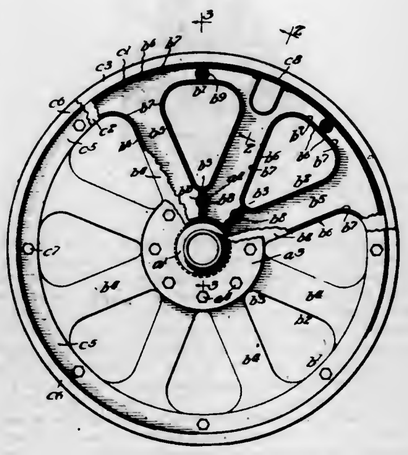
1,422,167. WHEEL. GERALD G. BARRY, Chicago, Ill. Filed Dec. 9, 1918. Serial No. 265,934. 12 Claims. (Cl. 301—64.)

1. In a vehicle wheel, the combination of a suitable hub, a supporting spoke body between the hub and rim, said supporting body comprising a pair of sheet metal flanged body plate members as herein described telescoped together, each of said sheet metal body members being formed from a blank provided with a central opening adapted to receive a hub, the main body of each said member being provided with a flange around the outer edge thereof, in forming which outer flange each of said metal blanks having a corresponding circumferential series of portions removed therefrom, leaving a series of projecting spoke bars, and the outer flange being formed as an integral continuous one from and following around the main body of each said member as thus formed (including the ends and sides of the projecting spoke bars and connecting portions of the plate body between the spokes), the said outer flange on one of said members being formed so that the body size is such that the corresponding flange on the opposite member may be forced thereover and the said two members telescoped together, the said outer flanges of the two members when telescoped being directed toward each other and being of a width substantially corresponding to the space between the two main body plates, thus providing a double thickness of the metal around the outer telescoped edges of the assembled body, means for securing the telescoped main body plates from disengagement at the central opening, means for securing the said telescoped body to the hub,



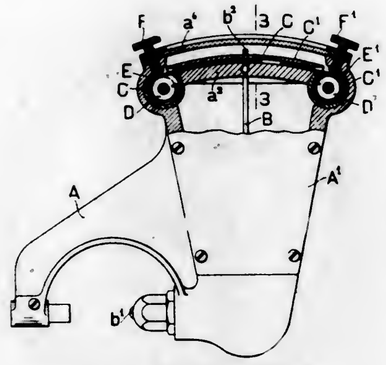
an annular rim mounted on the spoke ends, and means for securing the said rim member to the spoke ends, substantially as set forth.

1,422,168. METAL WHEEL. GERALD G. BARRY, Chicago, Ill. Filed Oct. 14, 1920. Serial No. 416,887. 5 Claims. (Cl. 301—66.)



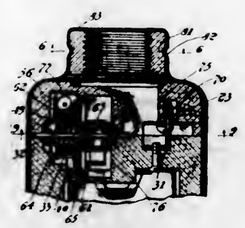
1. In a wheel, a nave, spoke and felly structure comprising a series of independent metal box units, each said unit consisting of a complemental pair of boxes having the outline and flanged substantially as shown, formed, telescoped and assembled substantially as set forth.

1,422,169. INDICATING-LEVER-LIMIT GAUGE. MAX BARTHOLDY, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed May 20, 1921. Serial No. 471,182. 3 Claims. (Cl. 33—147.)



1. In a gauge of the class described provided with a scale and a pointer cooperating therewith, a pair of steel strips adjustable relative to the scale, the ends of said strips defining a tolerance field and means for adjusting said strips and means for securing them in their adjusted position.

1,422,170. ELECTRICAL CONNECTOR DEVICE. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 19, 1917. Serial No. 207,841. 6 Claims. (Cl. 173—354.)



1. A switch mechanism comprising a rotatable insulating member, a switch contact supported thereby, a lever and pawl for actuating said rotatable member, and a ball-chain connected with said lever, said lever comprising a sheet-metal member having a portion lying in a plane substantially perpendicular to the axis of said rotatable member, and a portion lying in a plane substantially radially with respect to the axis of said rotatable member, said first portion having an opening therein large enough to permit the passage of one of the balls of the ball-chain, there being a slot leading from said opening to said second portion, not large enough to permit the passage of one of the balls but large enough to permit passage of the connection between the balls.

1,422,171. VELOCIPEDE. CLARENCE W. BENNETT, New York, N. Y. Filed Jan. 22, 1920. Serial No. 353,262. 6 Claims. (Cl. 208—113.)

1. In a velocipede, a frame having side members, a seat post bracket having parts held between said side members and a part projecting beyond said side members, said bracket at the point where it projects from the side mem-



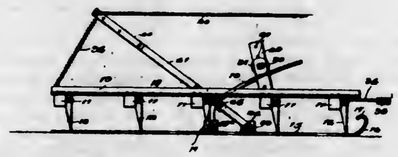
bers having its lower edges bearing directly on the upper edges of such side members, and a seat post adjustably held in the projecting portion of the bracket.

1,422,172. VELOCIPEDE. CLARENCE W. BENNETT, New York, N. Y. Filed Jan. 30, 1920. Serial No. 355,082. 2 Claims. (Cl. 208—102.)



1. In a velocipede, a frame and a tubular steering head carried thereby, a steering post journaled in said head, head plates secured in spaced relation on said post at a point below the steering head, a fork having side members extending up through said head plates, and a substantially U-shaped bracket inverted within said fork and having a base portion secured in engagement with the lower head plate and downwardly extending side arms secured to the side members of the fork.

1,422,173. HARROW. FRANK GRANVILLE BIGGERSTAFF, Kansas City, Mo. Filed Nov. 27, 1920. Serial No. 426,787. 7 Claims. (Cl. 55—34.)



7. In a device of the character described for use with harrows, a runner, cooperable levers pivoted to said runner, and an abutment arranged upon the harrow and engaged with one of said levers.

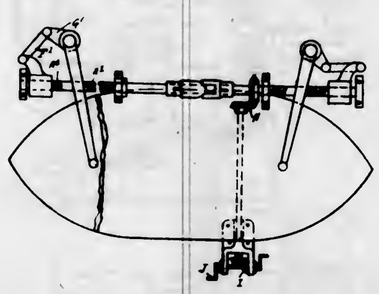
1,422,174. HOISTING TACKLE. OTTO JOHN BOETTCHER, Chilton, Wis., assignor of two-fifths to Fred W. Maas and one-fifth to Geo. C. Hume, both of Chilton, Wis. Filed Dec. 9, 1921. Serial No. 521,180. 1 Claim. (Cl. 254—188.)

A tackle, comprising a block having a flat-faced roller journaled in it, a second block having two flat-faced rollers arranged tandem and journaled in it, a cam-shaped sustaining catch provided with a double-eye which is pivoted in the second block in line with its two rollers, a lifting member pivoted between the two eyes of the said double-eye, said catch and lifting member being mounted



on the same pivot and being independently movable, and a flat operating strap which engages with said catch and passes over the said rollers and is secured at one end to the first said block, said catch operating to clamp the strap against one of the rollers of the said second block.

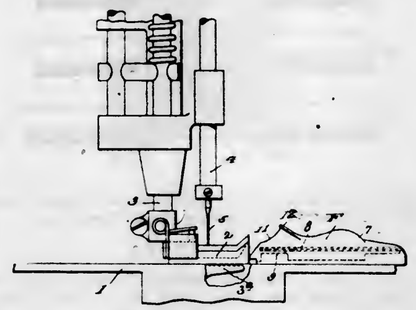
1,422,175. SHIP'S DAVIT. THOMAS JOHN CARR, Newcastle-upon-Tyne, England. Filed May 5, 1921. Serial No. 466,990. 1 Claim. (Cl. 9—22.)



In mutually operated ships' davits, a screw-threaded shaft, screw-threaded sliding members carried thereon, a link joined to each of said members, and a crank pin-jointed to the corresponding link and fast on each davit at a different angle so that the linear motion of said sliding members produces differential rotary movement of the davits, and operating gear for said screw-threaded shaft.

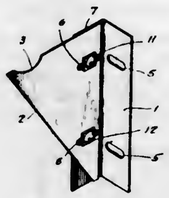
1,422,176. FOLDER FOR SEWING MACHINES. JOHN E. CHALMAN, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 18, 1918. Serial No. 254,608. 8 Claims. (Cl. 112—147.)

1. A folder for folding the edges of a strip underneath the body portion of the strip so that said edges will substantially meet centrally of the folded strip, said folder comprising a base, a tongue around which the strip is folded carried by said base and spaced therefrom, side walls projecting upwardly from said base, said side walls being extended over the tongue and spaced from each other for a portion of the length of the tongue to permit the operator's finger to slide along the tongue for inserting the strip in the folder, said side walls being joined for a por-



tion of the length of the tongue and adjacent the delivery end of the folder, said joined side walls adjacent the spaced edges of the side walls being arched or raised to form a clearance space for the central portion of the strip as it is inserted into the folder.

1,422,177. WALL-RADIATOR BRACKET. GROVER C. CLANTON, Bayonne, N. J. Filed Aug. 3, 1921. Serial No. 489,449. 2 Claims. (Cl. 248—30.)

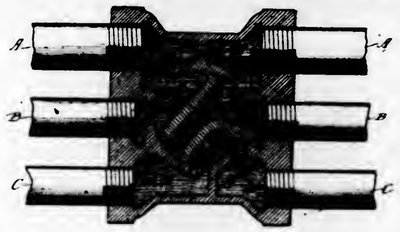


1. A radiator support, comprising a wall member formed of a pair of sheet metal flanges disposed at right-angles to each other and provided with a plurality of elongated slots, and a sheet metal member removably secured to one of said flanges and adapted to support a radiator, said last member being provided with elongated slots disposed at right-angles to and intersecting the slots of the flange to which it is secured, thereby to permit adjustment of the radiator in two directions, the slots of the remaining flange of the wall member being disposed so as to permit adjustment of the radiator in a third direction.

1,422,178. VALVE. ROSWELL P. COOLEY, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Original application filed May 11, 1918, Serial No. 233,905. Divided and this application filed Feb. 24, 1919. Serial No. 278,882. 12 Claims. (Cl. 251—105.)

1. In a valve, the combination of a casing having a plurality of chambers, and a rotary valve member in said casing provided with a plurality of ports and adapted to be set to three different positions in which said ports put said chambers into communication with each other

in pairs, differently combined for each position of the valve member, said casing and valve member being pro-



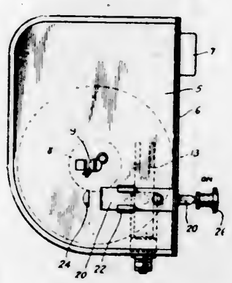
vided with drainage ports which come into register when said valve member is in certain of said positions.

1,422,179. TRAFFIC SIGNAL. JOHN D. COWARD, Newton Upper Falls, Mass. Filed Jan. 19, 1920. Serial No. 352,272. 8 Claims. (Cl. 116—35.)



1. A traffic signal for automobiles having, in combination, a transparent windshield, an indicator support positioned upon the rear of said windshield and a direction indicator of a length greater than its width rotatably mounted upon said support and projecting laterally of said support a substantial distance therebeyond, whereby said indicator may be visible through said windshield and visible and manually operable from the rear of said windshield.

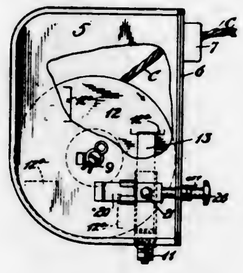
1,422,180. ELECTRIC SWITCH FOR WINDING DRUMS. CHARLES H. CUNO, Meriden, Conn., assignor to The Cuno Engineering Corporation, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 3, 1922. Serial No. 533,828. 7 Claims. (Cl. 200—153.)



1. The combination of a casing, a winding drum therein having a conducting flange, a spring arm contact normally out of engagement therewith, and a manually operable slide adapted to force said spring arm contact into engagement with said flange.

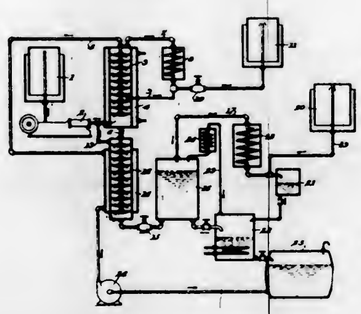
1,422,181. ELECTRIC SWITCH AND STOP FOR WINDING DRUMS. CHARLES H. CUNO, Meriden, Conn., assignor to The Cuno Engineering Corporation, Meriden, Conn., a Corporation of Connecticut. Filed Mar. 21, 1922. Serial No. 545,445. 3 Claims. (Cl. 200—153.)

1. In a device of the character described, a self-rewinding drum, a cable carried thereby and in circuit therewith, a circuit closer, means for manually operating the same and means cooperating with said circuit closer to lock



the drum against rewinding when the circuit closer is in the closed circuit position and leaving said drum free to rewind when the same is in the open circuit position.

1,422,182. TREATING GASEOUS HYDROCARBON MIXTURES. GEORGE O. CURME, Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y., a Corporation of Virginia. Filed June 5, 1919. Serial No. 302,040. 2 Claims. (Cl. 260—170.)

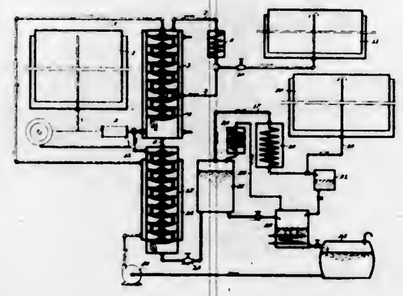


1. Process of separating and recovering a relatively soluble component from a gaseous hydrocarbon mixture, comprising compressing the mixture, passing the compressed mixture in contact with a suitable solvent maintained at a temperature below atmospheric, drawing off the gases from which the soluble component has been removed, progressively reducing the solvent power of the liquid to separate therefrom the less soluble gases, returning the gases thereby evolved into contact with portions of liquid having progressively increasing solvent power, and finally to the absorption system, releasing the pressure from the liquid containing the relatively soluble component, and separately recovering said component.

1,422,183. PROCESS OF TREATING GASEOUS MIXTURES. GEORGE O. CURME, Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y., a Corporation of Virginia. Filed May 4, 1920. Serial No. 378,782. 5 Claims. (Cl. 266—172.)

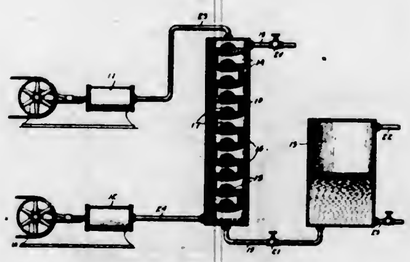
1. Process of separating and recovering a relatively soluble component from a gaseous mixture, comprising compressing the mixture; passing the compressed mixture

in contact with a suitable solvent; withdrawing the gases from which the soluble component has been removed; withdrawing the solvent from the absorption system; pro-



gressively separating from the solvent by a rectifying action the less soluble gases; returning the gases thereby evolved to the absorption system; and separately recovering the soluble component from the solvent.

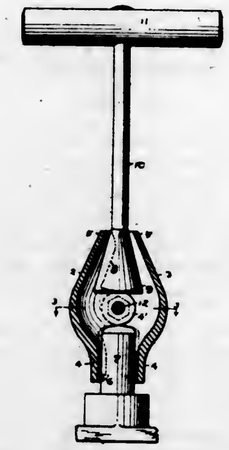
1,422,184. PROCESS OF SEPARATING ETHYLENE AND OTHER COMPONENTS FROM GASEOUS MIXTURES CONTAINING THE SAME. GEORGE OLIVER CURME, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y., a Corporation of Virginia. Filed Apr. 20, 1917, Serial No. 163,523. Renewed Dec. 1, 1920. Serial No. 427,659. 6 Claims. (Cl. 260—170.)



1. The process of separating ethylene from gaseous mixtures containing the same which consists in compressing the mixture, passing the gases thus compressed through a suitable solvent flowing counter to the gas stream, drawing off the gases free from the ethylene, then removing the pressure from the solvent containing the ethylene, and leading off the purified ethylene.

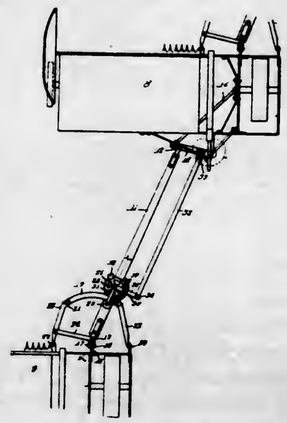
1,422,185. GRIPPING AND PULLING TOOL. HARRY DALITZ, Cleveland, Ohio, assignor to J. C. Hipp, Cleveland, Ohio. Filed May 16, 1921. Serial No. 470,052. 3 Claims. (Cl. 29—84.)

1. A gripping and pulling tool, comprising a pair of pivoted clamping members having gripping jaws and opposed spreading portions of semi-circular cross section,



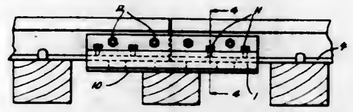
and a handle having a conical spreading member interposed and confined between said opposed portions.

1,422,186. COUPLING FOR TRAINS OF BINDERS, MOWERS, AND OTHER VEHICLES. CALVIN R. DAVIS, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed July 18, 1919. Serial No. 311,828. 5 Claims. (Cl. 280—33.8.)



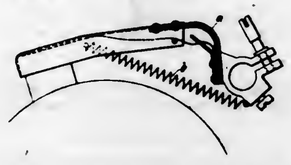
2. The combination with a front and rear vehicle, of a draft coupling therebetween comprising a segmental rack attached to the rear vehicle, a tongue pivotally connected at its front and rear ends with the front and rear vehicles respectively, a gear in mesh with the rack, means operative between the front vehicle and said gear for oscillating the latter when the front vehicle is turned, a roller engaging the back of the rack, and means connecting the roller and gear, holding them in associated relation with the tongue and preventing relative movement of said gear and rack lengthwise of the tongue.

1,422,187. FISHPLATE FOR RAILWAY RAILS. REIMER N. DITHMER, Chicago, Ill. Filed Aug. 29, 1921. Serial No. 496,455. 1 Claim. (Cl. 238—193.)



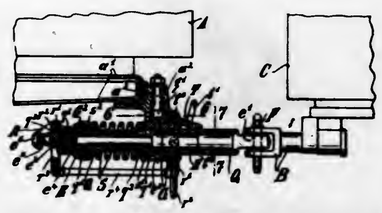
In a joint for rails comprising sections having slidably detachable interlocking bottoms and extending over and forming slots for flanges of said rails, said interlocking bottoms being thickened and together forming a rib adapted to prevent lateral movement of said joint; and means extending into said slots for adjustably engaging said flanges to prevent accidental detachment of said interlocking bottoms and to compensate for play in said slots.

1,422,188. BRUSH HOLDER FOR ELECTRIC MACHINES. ERNST DÖRFTEL, Bernburg, Germany. Filed Mar. 10, 1921. Serial No. 451,361. 3 Claims. (Cl. 171—324.)



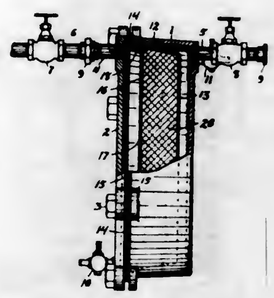
1. In an electric machine, a brush-holder, a supporting member, a yieldable blade-spring connecting the brush-holder to the supporting member and being approximately neutral in tendency with respect to the commutator so as to exert no appreciable pressure on the commutator and at the same time serve as a frictionless pivot, and a second spring for pressing the brush upon the commutator arranged in such manner that the torsional moment exerted by said second spring remains approximately constant in the entire range of wear of the brush, for the purposes set forth.

1,422,189. COUPLING MEMBER FOR VEHICLES. HEINRICH ECKERTZ, Essen-Rellinghausen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 7, 1920. Serial No. 408,747. 12 Claims. (Cl. 213—67.)



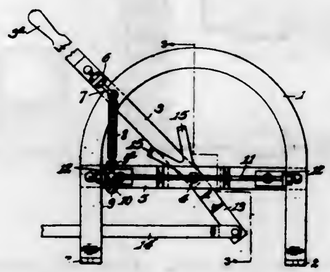
1. A coupling for vehicles comprising in combination a guide pivotally mounted on a vertical axis, a coupling rod longitudinally movable in the guide, means for locking the rod against longitudinal movement and the rod and guide against angular movement, means for releasing the locking means to permit longitudinal movement of the rod and angular movement of the rod and guide, the locking means becoming operative automatically upon a predetermined movement of the rod relative to said guide.

1,422,190. FILTER. MILTON ELROD, Indianapolis, Ind., assignor to Warriner Manufacturing Company, a Corporation of Indiana. Filed Feb. 23, 1921. Serial No. 447,059. 4 Claims. (Cl. 210—131.)



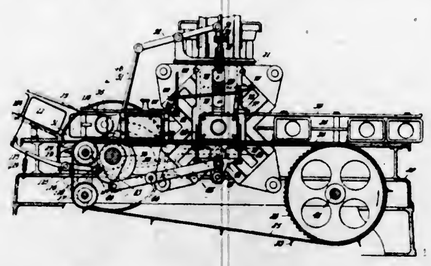
1. In a filter for a water distributing system, a case comprising a shell and head for closing same, having a drain cock communicating with its interior at the bottom thereof through the head, and a test cock having communication with its interior at the top thereof through the shell, and having an inlet pipe communicating with the interior of the case at the top thereof through the head and an outlet pipe communicating with its interior at the top thereof through the shell, said pipes being adapted to be connected in line with the supply pipe of the water distributing system; a cartridge having a radial flange at one end adapted to be clamped between the head and shell, and having a series of perforations in its opposite end and a removable perforated lid situated in its front end; and a filtering medium held compactly within the cartridge and covering all the perforations in the pan and lid.

1,422,191. RAILWAY-SWITCH STAND. LUIGI FACCIUTO, Sr., Flushing, Ohio, assignor of one-third to Louis Facciuto, Jr., Lansing, Ohio, and one-third to Frank C. Leon, Flushing, Ohio. Filed Apr. 4, 1922. Serial No. 549,490. 5 Claims. (Cl. 246—410.)



1. A switch stand comprising a pair of parallel frame members of arch form relatively positioned to form an intermediate passageway, bars disposed horizontally between the upright portions of said members, an operating lever pivotally mounted on said bars and having connection with the switch shifting bridle, said lever being movable along said passageway, retractile coil springs attached to and depending from said lever, pulleys suspended by said springs, and horizontal trackways beneath which said pulleys travel in shifting movement of said lever.

1,422,192. CAN-BODY-ENDING MACHINE. THEODORE F. FITZSIMONS, Stanmore, near Sydney, New South Wales, Australia. Filed July 2, 1919. Serial No. 308,189. 9 Claims. (Cl. 113—18.)



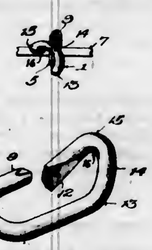
1. In a can ending machine of the type herein described, provided with a race-way, the combination with an anvil, a laterally movable header body supporting said anvil, of a normally retired stripper plunger, a trip pawl arranged to hold the stripper outward until the retiring movement of the header body is nearing completion and thereupon to release the stripper and so leave the completed can centered in the race-way.

1,422,193. PAVING BLOCK. CHARLES L. SULLIVAN, Chicago, Ill., and JOHN D. FLETCHER, Evansville, Ind. Filed May 8, 1920. Serial No. 379,816. 4 Claims. (Cl. 94—11.)



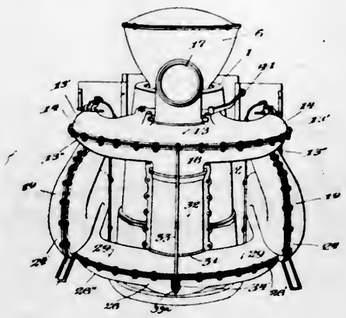
1. A paving block comprising a base and a tread portion, the said tread portion being narrower than the said base portion, and provided with an intervening longitudinally disposed furrow and with central extensions from opposite ends of the block.

1,422,194. DRAFT COUPLING. EDWARD FOWLER and JOHN V. LEWIS, St. Elmo, Tenn. Filed Feb. 21, 1919. Serial No. 278,554. 5 Claims. Cl. 97—4.)



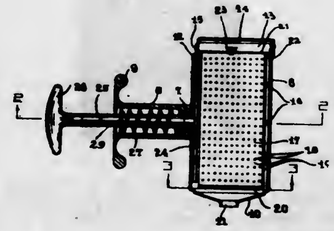
1. A draft element having at one end an elongated bearing section lying perpendicular to the axis of draft and bent to form a plurality of seating sections arranged at angles to each other and lying in the same plane.

1,422,195. STOVE AND FURNACE. JOHN B. GOHMANN, Lincoln, Nebr. Filed Apr. 20, 1921. Serial No. 462,953. 2 Claims. (Cl. 126—107.)



1. In a stove or furnace, in combination with a combustion chamber having a rear smoke outlet at the top, a smoke receiving and distributing head having an inlet connection intermediate its ends with said outlet, and provided with end branches extending forwardly along opposite sides of the combustion chamber, said head also having a smoke outlet, a smoke collecting head behind the combustion chamber and having end branches extending forwardly along opposite sides of the combustion chamber, said collecting head and its branches being located below the first-mentioned head and its branches, a pipe extending vertically between said heads and establishing a connection therebetween intermediate their ends, a series of connected flues located adjacent to each side of the combustion chamber, the series of flues on one side being connected to and establishing communication between one of the forward ends of the branches of the aforesaid heads, and the series of flues on the other side being connected to and establishing communication between the forward ends of the other branches of the heads, and means for establishing a direct connection between the smoke outlet of the combustion chamber and the smoke outlet of the first-mentioned head, said means being adjustable to break said direct connection.

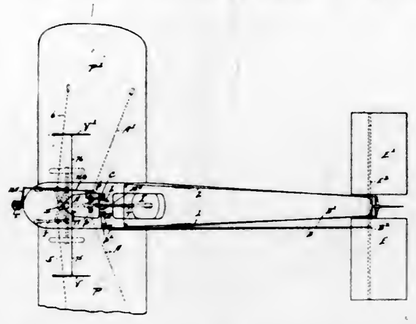
1,422,196. LEMON SQUEEZER. WILLIAM E. GRAY, Chicago, Ill. Filed Nov. 13, 1920. Serial No. 423,769. 7 Claims. (Cl. 100—41.)



1. In a device of the class described, a casing containing a perforated container having an open side, a pressure plate in said casing adapted to enter said open side, and thumb means to operate said pressure plate.

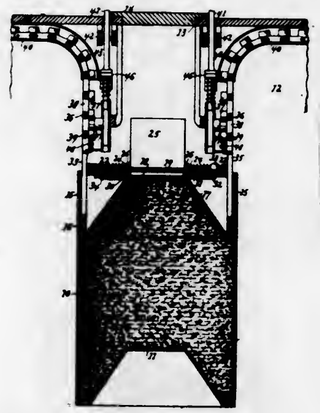
3. In a device of the class described, a casing containing a perforated container having an open side, pressure means in said casing adapted to enter said open side, means protruding from said casing to operate said pressure means, and a spring to retract said pressure means from said container.

1,422,197. AEROPLANE. OTTO W. GREENE, Elyria, Ohio, assignor to The Greene Aeronautical Company, Elyria, Ohio, a Corporation of Ohio. Filed Mar. 27, 1914. Serial No. 827,532. 30 Claims. (Cl. 244—29.)



16. In a flying machine, the combination of a vertical rudder, mechanism for automatically maintaining the machine in balance, including a directional air-actuated vane independent of the rudder for automatically causing said mechanism to initiate the banking operation to balance the machine to the disturbance of balance caused by the deflection of the rudder.

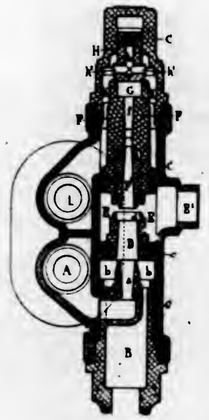
1,422,198. ICE-CREAM-DISPENSING MACHINE. WILLIAM J. GUERIN, Brooklyn, N. Y. Filed Dec. 6, 1921. Serial No. 520,219. 9 Claims. (Cl. 226—128.)



1. In a dispensing machine the combination with a plunger having an opening, of slides arranged to normally close the opening, and means controlled by a container for actuating the slides.

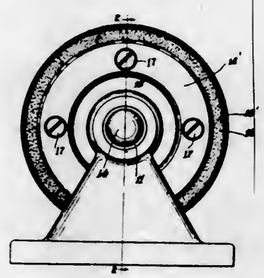
1,422,199. SELF-STARTING INJECTOR FOR STEAM BOILERS. JOSEPH HALL, Stockport, England. Filed Nov. 13, 1919. Serial No. 337,757. 1 Claim. (Cl. 162—1.)

In a self-starting injector for steam boilers, the combination with a steam nozzle and lifting cone for raising water into the injector for starting and restarting automatically of a sliding cone placed above the lifting cone to create a partial vacuum in the overflow chamber, a delivery cone, a liquid pressure chamber at the delivery



orifice of the delivery cone to facilitate starting and restarting of the injector, and a valve controlled by the pressure of the boiler closing said pressure chamber.

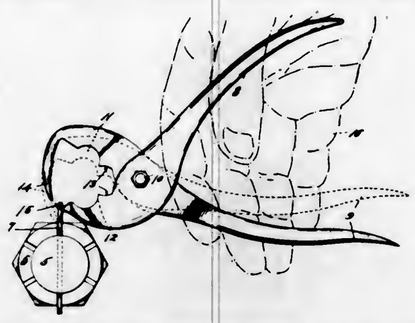
1,422,200. GRINDING WHEEL. HARRY E. HARRIS, Bridgeport, Conn. Filed Apr. 14, 1919. Serial No. 289,963. 3 Claims. (Cl. 51—206.)



1. A grinding device comprising a gyro wheel having a wide, substantially flat, heavy periphery composed of two sections substantially equal in mass, one of said sections having a peripheral recess, a ring of abrasive material mounted in said recess, and means to clamp the other of said sections against said ring and ring holding section.

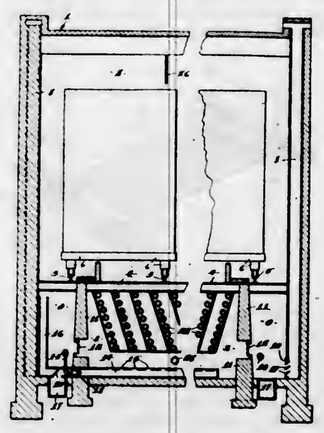
1,422,201. COTTER-PIN PULLER. MARION H. HARTER, Minneapolis, Minn. Filed Dec. 6, 1920. Serial No. 428,462. 3 Claims. (Cl. 29—86.2.)

1. A cotter pin puller comprising a pair of jaw-equipped pivotally connected handles, one of the jaws having a supporting finger offset toward the other jaw, said other jaw having a tooth adapted to enter the eye of a cotter



pin and to move close to the inner face of the supporting finger and in the plane thereof.

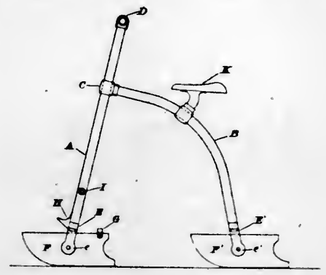
1,422,202. DRY KILN. NELSON H. HENDERSON and HIRAM L. HENDERSON, Syracuse, N. Y. Filed May 14, 1921. Serial No. 469,601. 30 Claims. (Cl. 34—46.)



19. A dry kiln having a drying room in the upper portion thereof, and a heating chamber below the central part of the drying room and circulating chambers at opposite sides of the former chamber, such chambers opening into the bottom of the drying room, automatic pressure operated dampers in the partitions between the circulating chambers and the heating chamber, chimneys communicating with the circulating chambers, air ducts communicating respectively with the circulating chambers and with the outside air and having outlets into the heating chamber, and a steam injector in the ducts between the inlets and outlets thereof, and means for controlling the flow through the inlets of the ducts, and means for controlling the flow through the chimneys, substantially as and for the purpose described.

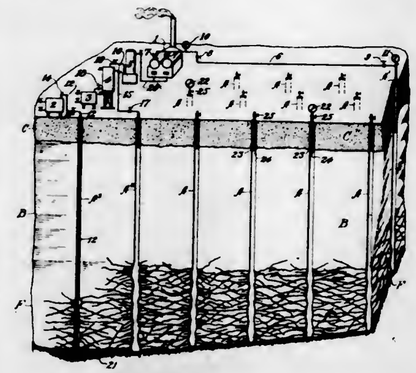
1,422,203. GLIDING COASTER. ARTHUR H. HEATZMAN, Baltimore, Md., assignor to The A. H. Heatzman Company, a Corporation of Oklahoma. Filed June 2, 1920. Serial No. 385,893. 4 Claims. (Cl. 188—8.)

1. A device for coasting constituting a frame having front and rear surface bearings, a foot rest G attached to and cooperating with the front surface bearing for creating increased friction between the said bearing and



the surface incline for the purpose of diminishing the speed of the device.

1,422,204. METHOD FOR WORKING OIL SHALES. WILSON W. HOOVER and THOMAS E. BROWN, New York, N. Y. Filed Dec. 19, 1919. Serial No. 346,069. 1 Claim. (Cl. 262—3.)

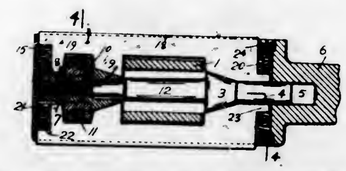


The hereinbefore described method of working oil shales which consists in gaining access to a determinate zone of any desired area, in a sub-surface deposit of oil shale, by drilling a group of contiguous wells, suitable in number, proximity and depth for the purposes hereinafter set forth, in the introduction, through the wells, into such zone, of charges of explosives, in exploding the same, in thereby so fracturing the formation in such zone as to produce a series of intercommunicating fractures throughout the zone which shall render the same permeable to a heating medium, in introducing a heating medium into the zone of fracture through a member of the group of wells, all wells not required for the treatment of material and recovery of products being first securely sealed, in circulating the heating medium through said zone, in treating the bituminous material therewith, in thereby converting such material into oil and in recovering the products through other members of the group.

1,422,205. EXPANDING REAMER. JOHN JULIUS JASPERSON, Randwick, near Sydney, New South Wales, Australia. Filed July 19, 1920. Serial No. 397,223. 5 Claims. (Cl. 77—76.)

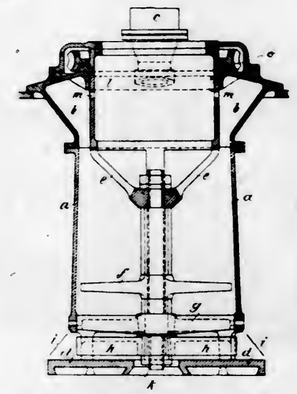
1. An expanding reamer comprising a shank with a body, a rotatable spindle arranged in the body and hav-

ing a conical shoulder at one end and screw-threaded at the other end, a rotatable screw-threaded sleeve supporting the threaded end of said spindle and having a conical shoulder, a tapped collar detachably secured on the interior of said body within which said sleeve is mounted, a plurality of cutter blades adapted to be mounted within



recesses in said body and to be expanded radially outward from the circumference thereof by rotating said spindle and sleeve, springs mounted within said body and engaging the front and rear ends of said cutter blades to position them within said body, an end cover plate for said body, and backing plates for said blades detachably affixed to said body.

1,422,206. COKING CHAMBER FOR GENERATORS. PAUL JAWORSKI, Bismarckhutte, Upper Silesia. Filed Aug. 26, 1921. Serial No. 495,563. 5 Claims. (Cl. 48—73.)

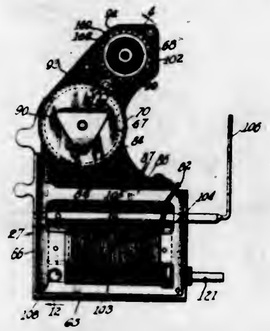


1. A coking chamber for generators comprising a casing, a feed hopper for the casing and a plate spaced from and below the lower end of said casing for supporting the contents thereof, the annular space thereby formed serving as an unrestricted inlet for the generator gases and as a discharge orifice for the coked material.

1,422,207. INDICATING AND RECORDING APPARATUS. AUSTIN C. JOHNSON, Chicago, Ill., assignor to Production Meter Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 6, 1918. Serial No. 265,544. 41 Claims. (Cl. 234—1.5.)

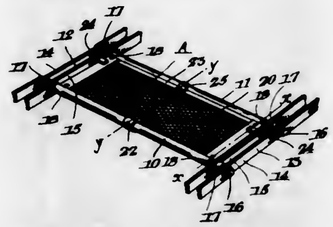
1. In apparatus of the character described, the combination with indicating mechanism comprising a revoluble element, of driving mechanism therefor comprising a continuously driven member adapted to be operatively connected with said revoluble element and normally engaging said member to minimize lost motion in said connection with a sliding contact, and means adapted to be controlled by the machine the performance of which said apparatus indicates, for effecting said operative connection between said revoluble element and said continuously driven member.

33. In apparatus of the character described, the combination with time operated indicating mechanism for indicating the total active time period of a machine performing a series of active operations, and means controlled by the operation of the machine, the performance



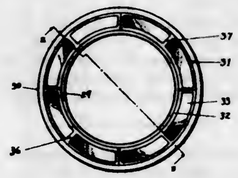
of which is being indicated, for giving a visual indication of the total active operations of said machine during the total time period indicated by said time operated indicating mechanism.

1,422,208. CONVEYER BELT. JAMES NIXON KENNY, Ottawa, Ontario, Canada. Filed Jan. 13, 1921. Serial No. 436,932. 5 Claims. (Cl. 198—194.)



1. A conveyer section comprising tubular side members, end members connected to the side members, means for pivotally connecting adjacent sections, one of the side members having a longitudinal slot therein and a supporting member located in the centre of the section extending into the slot in the side member, and a clip on the said supporting member extending over the opposite side member to that having a slot therein.

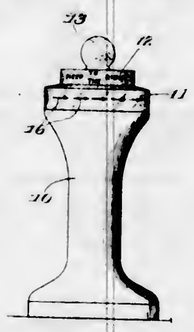
1,422,209. APPARATUS FOR VULCANIZING ARTICLES OF RUBBER OR RUBBERIZED FABRIC. PETER J. KNAUS, Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 15, 1919. Serial No. 271,214. 16 Claims. (Cl. 18—17.)



1. In an apparatus of the class described, a vulcanizing chamber, a plurality of units, the parts of adjacent units being provided with inclined mating surfaces

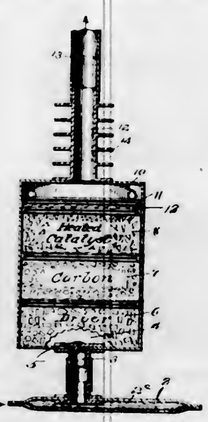
and forming molds for the reception of tire treads, means for simultaneously exerting pressure upon the units whereby radial pressure is communicated to the several treads during the process of vulcanization.

1,422,210. TRAFFIC SIGNAL. WELLINGTON A. KOCH, Plainfield, N. J. Filed Oct. 10, 1921. Serial No. 508,664. 4 Claims. (Cl. 116—63.)



2. A traffic signal including a post, a stationary illuminated direction legend on the post, and a constantly moving signal associated with the legend in its direction designation.

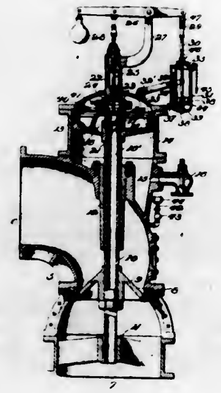
1,422,211. METHOD AND APPARATUS FOR TREATING GASES AND GASEOUS SUBSTANCES. ARTHUR B. LAMB, Washington, D. C. Filed May 31, 1919. Serial No. 301,017. 43 Claims. (Cl. 183—48.)



33. In a process of treating gases, passing said gases through drying material, then through a sorbent, then through a sorbent material containing sorbent, oxidizing catalyst.

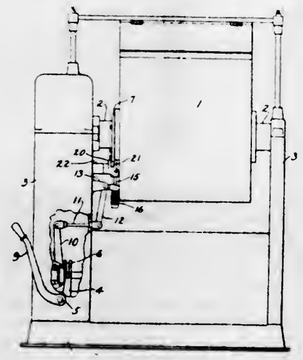
1,422,212. GOVERNOR-OPERATED PRESSURE REGULATOR. CHESTER W. LARNER, Cleveland, Ohio. Filed July 24, 1917. Serial No. 182,402. 8 Claims. (Cl. 137—53.)

8. A pressure regulating system of the type recited, comprising the combination of a penstock, a single acting piston and its operating cylinder, a valved connection for supplying penstock pressure to the space below the piston, a main valve carried by the piston rod and arranged to be seated in response to penstock pressure on the piston, and a governor-operated differential waste



valve in the piston head for relieving the pressure in the cylinder and opening the main valve.

1,422,213. SAFETY CLUTCH DEVICE FOR MIXERS. FRANK X. LAUTERBUR, Sidney, Ohio. Filed May 1, 1922. Serial No. 557,628. 6 Claims. (Cl. 259—1.)

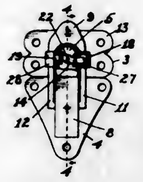


1. In combination, in machines of the character described, a bowl adapted to tip to dump the contents, a clutch for coupling power to mixing means within the bowl, and resilient means under the control of the bowl to throw out the clutch upon a tipping movement of said bowl, and means independent of the bowl for operating the clutch.

1,422,214. COMBINATION CLASP AND LOCK. MORITZ LEIBOVITZ, Lorain, Ohio. Filed Apr. 16, 1921. Serial No. 461,747. 5 Claims. (Cl. 70—115.)

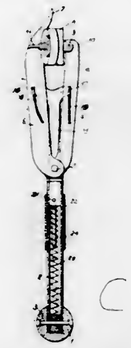
5. A combination clasp and lock, comprising a fixed member, a pivotally supported hasp, the fixed member having a raised hollow portion, the hasp being adapted to swing over the raised hollow portion of the fixed member, a rotatably mounted block arranged within the hollow portion of the fixed member, arms pivoted to the

block, the walls of the hollow portion of the fixed member being provided with slots for said arms to permit them to slide over said hasp, a post extending from the block,



a key for fitting the post, and the wall of the hollow portion of the fixed member being provided with a hole for admitting the key, substantially as described.

1,422,215. AUTOMATICALLY CLAMPING TONGS FOR GRASPING PLATES AND DISHES. RENÉ ALFRED JEAMMET-LEYRIT, Billancourt, near Paris, France. Filed Oct. 22, 1920. Serial No. 418,808. 1 Claim. (Cl. 294—115.)

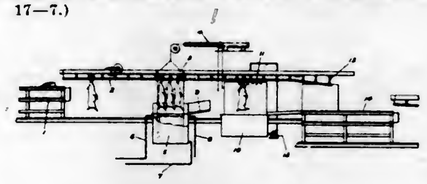


Automatically clamping tongs for grasping plates and dishes, characterized by a handle provided with a tube supporting a fixed arm, to the end of which is hinged a buffer coated with plastic material, upon which fixed arm is pivoted a movable arm provided with two buffers and with a fore-nose for initially lifting up the plates and dishes, on one side, said movable arm being acted upon by a slide by means of lugs working into slots, which slide is constantly pushed backwards by a spring and may be actuated through the medium of a handle, said buffers being pivoted upon the arms, so as to be able to assume any suitable position.

1,422,216. SYNTHETIC JEWEL BEARING. TAINE G. MCDOUGAL and SAMUEL J. MCDOWELL, Flint, Mich., assignors to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Jan. 14, 1920. Serial No. 351,438. 9 Claims. (Cl. 49—77.)

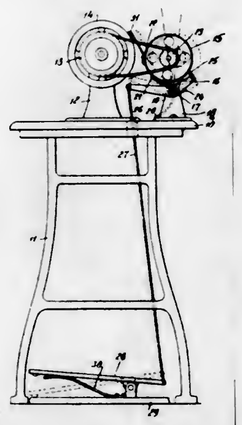
6. The process of manufacturing a synthetic jewel bearing or the like, which consists in forming a plurality of batches of ingredients which, when fused, form glass of high viscosity, one of said batches having a higher fusing point than the other, compressing from material of the batch of relatively high fusion point a body for the bearing, compressing additional material from the other batch with said body to form a facing, fusing said bearing while supported on powdered material to which it will not adhere when fused, and annealing said fused bearing.

1,422,217. METHOD OF SINGEING HOGS. ROBERT DAWSON MACLAURIN, Toronto, Ontario, Canada. Filed Oct. 1, 1921. Serial No. 504,688. 7 Claims. (Cl. 17—7.)



1. A method of singeing hogs which consists in dipping the hog into heated liquid capable of causing the gelatinous proteins to condense and polymerize with the consequent dimunition of the water in the skin.

1,422,218. MOTOR DRIVE FOR SEWING MACHINES. HYMAN MAIMIN, New York, N. Y. Filed Apr. 30, 1920. Serial No. 377,799. 14 Claims. (Cl. 192—11.)

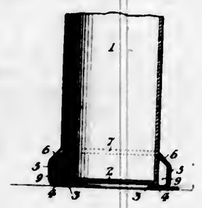


2. In a sewing machine provided with a driving wheel, the combination of a motor mounted to swing about an axis adjacent to the wheel, a spring for holding the motor in operative relation to the wheel of the machine, and means for taking the motor out of operative relation to the wheel of the machine and having a lost motion connection with the motor to permit the latter to assume its operative relation to the wheel of the machine unaffected by said means.

6. In a sewing machine provided with a driving wheel, the combination of a supporting member positioned adjacent to the driving wheel, a motor pivotally mounted on the supporting member, a spring for holding the motor in operative relation to the wheel of the machine, a swinging member, a lost motion connection between the motor and the swinging member, means for actuating the swinging member to overcome the effect of the spring and move the motor out of operative relation to the driving wheel of the machine, said means being adapted to be overcome by the operator to release the connection sufficiently to permit the motor to be held in operative relation to the driving wheel of the machine by the spring independently of the effect of the actuating means.

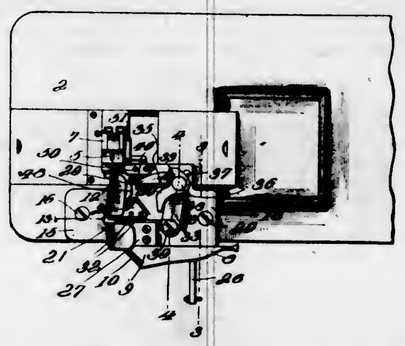
9. The combination as claimed in claim 2, in combination with braking means attached to the motor for acting on the driving wheel of the machine for stopping said driving wheel when the motor is out of operative relation with the driving wheel.

1,422,219. MUNITION CASING. VICTOR MAUCK, Norristown, Pa. Filed May 16, 1918. Serial No. 234,952. 5 Claims. (Cl. 220—66.)



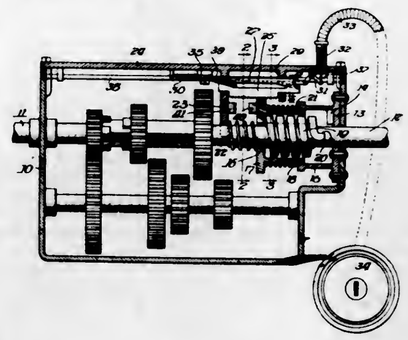
1. In a munition casing, the combination with a cylindrical, tubular shell; of a base member for said casing, formed of a single piece of pressed sheet metal, forming a closure for said shell, including an annular shoulder fitted to the interior of said shell and formed by an inwardly recessed portion of said base member coextensive with the cross sectional area of said shell; said base member being thus recessed to substantially the thickness of the metal thereof; said base member presenting an annular plane pedestal support, extending at right angles to the axis of said casing, exterior to said shell and larger than the latter, and having a peripheral cylindrical flange extending in spaced relation with the outer circumference of said shell and presenting a precisely dimensioned "stowage diameter"; the upper edge of said base member forming a truncated cone, inwardly converged into contact with said shell; and means uniting said base member to said shell, solely at the upper edge of the former, and remote from the recessed portion of said base member, including an autogeneously welded solderless seam; said shell and said base member forming between them a hermetically sealed air chamber, of substantial size, exterior to said shell.

1,422,220. SEWING MACHINE FOR APPLYING BUTTON STAY STRIPS. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 3, 1920. Serial No. 356,101. 15 Claims. (Cl. 112—2.)



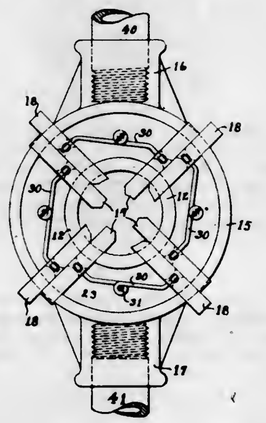
14. The combination with means for directing a strip, a folding finger adapted to swing over said strip and over which the end of the strip may be folded, a turning finger holding the end of the strip over the folding finger, an arm carrying said folding finger, means for oscillating the arm, said turning finger being mounted on said arm, and spaced stops adapted to engage the turning finger at the extremes of movement of the arm for swinging the same relative to the folding finger to fold the end of the strip and for bringing said turning finger back to inoperative position, a vertical shaft carrying said arm, a spring for swinging said shaft for holding the folding finger in inoperative position, and manually controlled means for oscillating the shaft to move said folding finger and turning finger into operative position for folding the end of the strip.

1,422,221. AUTOMOBILE LOCK. CHARLES F. MURRAY, Evanston, Ill. Filed May 22, 1917, Serial No. 170,124. Renewed Oct. 2, 1920. Serial No. 414,338. 11 Claims. (Cl. 188—31.)



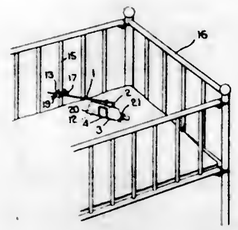
1. In a vehicle lock, the combination of a casing, a shaft, a clutch member in the form of a spring mounted in the casing and adapted to arrest the rotation of said shaft without material shock, said spring being normally in inoperative position and means for moving said spring into clutching position in consonance with the rotation of the shaft and after a predetermined number of rotations of the shaft, substantially as described.

1,422,222. DIESTOCK. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed June 25, 1920. Serial No. 391,716. 19 Claims. (Cl. 10—122.)



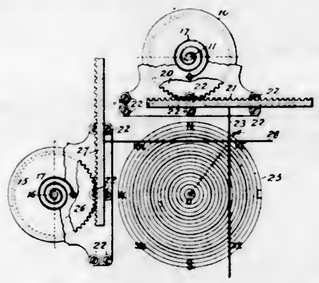
10. In a die stock, the combination with a frame, of a cam plate mounted thereon and having grooves therein, chasers mounted in said frame, projecting members on said chasers for engaging the grooves in said cam plate, said grooves comprising a set of active grooves and a set of rest grooves, one of said sets surrounding the other, and the two sets being connected at spaced points by transfer grooves.

1,422,223. NURSING-BOTTLE HOLDER. JOAN C. PHILLIPS, Wellesley Hills, Mass. Filed June 6, 1921. Serial No. 475,561. 1 Claim. (Cl. 248—65.)



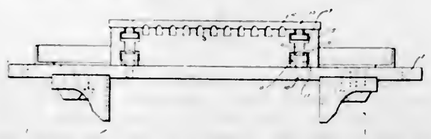
A nursing bottle holder made from a length of wire, one portion of which constitutes a stem, said wire being bent to form a U-shaped bottle-holding portion having one arm integrally connected with the stem, a bridge portion extending rearwardly from the other arm of said bottle-holding portion substantially parallel to the stem, and a second U-shaped bottle-holding portion at the end of the bridge portion, the two bottle-holding portions being in parallel relation, the free end of said last mentioned U-shaped portion having a hook or stop formed thereon adapted to contact with the stem.

1,422,224. SPEED INDICATOR FOR AEROPLANES. ARTHUR F. POOLE, Kenilworth, Ill. Filed May 31, 1918. Serial No. 237,585. 2 Claims. (Cl. 175—183.)



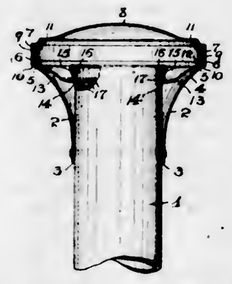
1. The method of determining the speed of travel of navigable vehicles through a non-conducting medium, said method consisting in associating with said vehicle a part capable of being influenced by the earth's magnetic field and moving said part through said magnetic field, whereby the part will be variably shifted by the influence exerted thereon by the magnetic field to give indications.

1,422,225. OIL PRESS. GEORGE A. SAUER, Dayton, Ohio, assignor to Buckeye Iron & Brass Works, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 10, 1921. Serial No. 436,152. 3 Claims. (Cl. 100—54.)



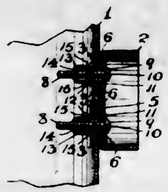
3. In a press, a plate, a pair of members disposed respectively on either side of said plate at one end thereof with an overhanging shoulder on one end thereof spaced from the face of the plate, a rack, a T-shaped aperture on either side of the end of said rack adapted to slidably engage with said members mounted on the plate respectively, second T-shaped apertures in said end of said rack recessed in said rack, a mat, depending T-shaped lugs detachably secured on either side of the bottom of said mat adapted to slide in said second T-shaped apertures in the rack, a pair of bolts at the other end of said plate threaded therein and carrying between the head of each bolt and the plate, an L-shaped member having a projecting finger thereon, a detachably depending eye on either side of the bottom of the mat adapted to engage with said fingers, whereby the plate, rack and mat may be assembled as a unit.

1,422,226. MOUNTING NAPS OR CAPS FOR POSTS, POLES, OR RODS. ABRAHAM J. SCHULTZ, Newark, N. J., assignor to Colonial Stamping Company, Inc., a Corporation of New Jersey. Filed Aug. 13, 1920. Serial No. 403,434. 6 Claims. (Cl. 5—4.)



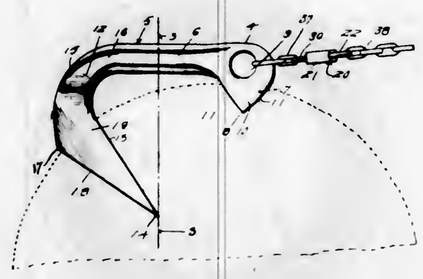
1. In combination with an element, as a metal bed-post, rod or pole, an ornamental nap, and an interiorly disposed seating element provided with a central open portion, said seating element having a stop-member surrounding said opening and provided with a chambered portion for the reception of the end-portion of said post, rod or pole, said chambered portion comprising an annular wall, and a multiplicity of biting serrations connected with and extending from said wall, said serrations being adapted to be forced into holding engagement with said post, rod or pole, when the end-portion of the same is inserted in the chambered portion of said stop-member.

1,422,227. EXPANSIBLE ATTACHING MEANS FOR CONNECTING TUBULAR ELEMENTS. ABRAHAM J. SCHULTZ, Newark, N. J. Filed Aug. 13, 1921. Serial No. 492,074. 5 Claims. (Cl. 5—4.)



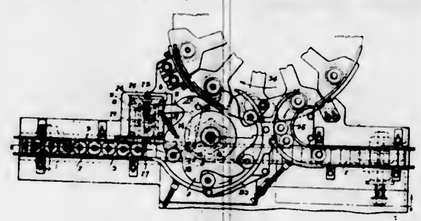
1. In an attachment of the character set forth, in combination with a main tubular element provided with a perforation, a receiving-cap or ferrule adapted to be attached to said tubular element, said cap or ferrule being also provided with a perforation, a tightening bolt extending through said perforations, and an expansion-element mounted upon said bolt and adapted to be tightened against the inner surface of said main tubular element when the said bolt is actuated.

1,422,228. LOGGING HOOK. PATRICK H. SHAFFER, Richwood, W. Va., assignor of one-half to Wellington L. Thomas, Richwood, W. Va. Filed Apr. 14, 1920. Serial No. 373,872. 1 Claim. (Cl. 294—82.)



A logging hook consisting of a many-sided shank, one end of said shank being enlarged and formed into a spur, said spur having an opening, the opposite end portion of the shank being curved back toward the first mentioned end portion to provide a substantially V-shaped hook, the last mentioned end portion adjacent the curved portion of the shank forming the bill of the hook, the back of said bill tapering laterally and longitudinally from the extremity of said bill and the junction of the bill with the shank to a portion centrally of the bill, the sides of said bill being canted inwardly toward said central portion and coacting with the tapering back portions to provide a spur, said spur being spaced from the bight portion of the V-shaped hook, the extremity of the bill being disposed substantially opposite and in alignment with the extremity of the first mentioned spur.

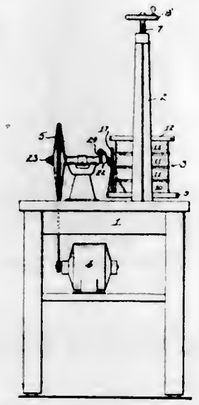
1,422,229. FEEDING MECHANISM. JOHN SHARP, Oakmont, Pa., assignor to Aluminum Seal Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Apr. 8, 1921. Serial No. 459,665. 4 Claims. (Cl. 198—34.)



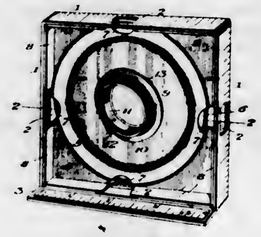
2. In a feeding device, the combination with conveying mechanism, of a spring actuated trip-arm in the path of the article, a spring-actuated slide on which said tripper is mounted, a slide member in which said slide is mounted, means on said trip-arm adapted to engage said slide member, a star-wheel, a cam on said star-wheel, and connections between said slide member and said cam for reciprocating said slide member.

1,422,230. SIEVE SHAKER. BOZO STANKOVICH, San Francisco, Calif. Filed Dec. 3, 1921. Serial No. 519,604. 4 Claims. (Cl. 83—56.)

1. A sieve-shaker comprising a sieve-column mounted for oscillation about its vertical axis; an arm associated with and adapted to oscillate said column, said arm having spaced abutments; a driving shaft; and a link connected at one end with said crank and having in its other end an enlarged hole freely fitting over said arm for longitudinal play, said link having also lateral play between and against the abutments of the arm.



1,422,231. COMBINED LEVEL, PLUMB, SQUARE, AND MEASURE. JAMES STANLEY, New York, N. Y. Filed Mar. 4, 1920. Serial No. 363,220. 5 Claims. (Cl. 33—212.)

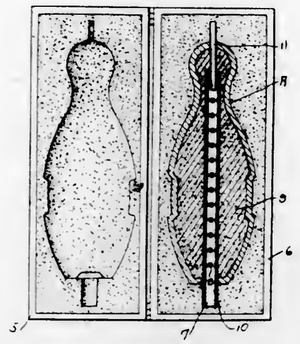


1. A combined level, plumb, square and measure, comprising a frame formed with four equal sides, a metallic housing fitted within said frame formed of two members, each of said members having extensions adapted to contact with the inner face of said frame, a circular opening formed by said housing, a circular spirit tube seated in the circular opening, and means for locking the housing around said tube.

1,422,232. MEANS FOR MAKING CAST BOWLING PINS. RICHARD E. STANLEY, Sr., Pittsburgh, Pa. Filed May 4, 1921. Serial No. 466,642. 4 Claims. (Cl. 22—184.)

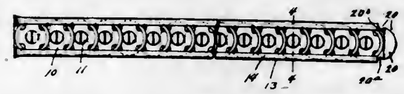
1. Means for making hollow cast bowling pins including a hollow stem, a core formed on the stem, one end por-

tion of said stem projecting beyond the end of the core, the opposite end portion terminating adjacent the oppo-



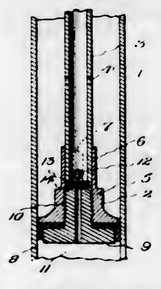
site end of the core, and a pin disposed in the last mentioned end of the core and projecting beyond the core.

1,422,233. PACKAGE FOR SNAP FASTENERS. LOUIS J. STERN, Boston, Mass. Filed Apr. 17, 1919. Serial No. 290,850. 2 Claims. (Cl. 206—46.)



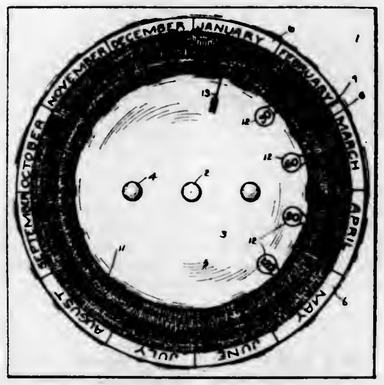
1. A package for snap fasteners and the like formed of a strip of flexible material of substantial length and having a body-portion and side-portions inwardly reflexed to provide a fastener-receiving channel permanently closed at one end, said body-portion extended beyond the other end of the channel and reflexed to provide a handle-portion and an abutment adapted to be flexed into and away from the channel-closing position.

1,422,234. COMBINED VALVE AND PISTON. FREDERICK STICKEL, Chicago, Ill. Filed Mar. 18, 1921. Serial No. 453,428. 4 Claims. (Cl. 103—225.)



1. In a pump, a hollow piston rod, a nut slidable on the lower end of the rod, a slot and pin connection between said nut and rod, a piston plug carried by said nut and provided with an air port extending therethrough, and a valve disc controlling passage of air through said port.

1,422,235. MATURITY CALENDAR. JAMES M [illegible], Seattle, Wash. Filed Sept. 22, 1921. Serial No. [illegible],398. 2 Claims. (Cl. 40—113.)



1. A maturity calendar of the class described embodying a disc, spaces around the outside of the disc in which the names of the months of the year appear, other spaces on the disc in which the days of the months appear, a smaller disc mounted upon the larger one, spaces around the circumference of the smaller disc, numerals in rotation in the spaces, some of these numerals repeated in larger type towards the center of the disc and opposite their respective spaces, an arrow at the numeral 365, knobs mounted on the smaller disc for rotating the disc, a pivot in the center of both discs holding them together, upon which the smaller disc is freely mounted as it rotates on it, holes opposite the days of the month in the large disc and pins which may be inserted in these holes, opposite the Saturdays, Sundays and holidays during the year, and which may be changed from year to year to designate these days so that they may readily be detected.

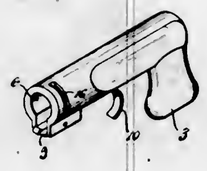
1,422,236. UNDERREAMER. JOHN SWAN, Jr., Marietta, Ohio. Filed June 2, 1920. Serial No. 385,876. 6 Claims. (Cl. 255—75.)



1. In an underreamer, the combination of a body, a wedge member consisting of a wedge portion having a shoulder abutting against the bottom of the body and a hollow extension located within and removably secured

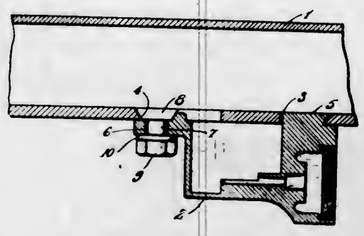
to the body, cutters movably engaging the wedge portion and arranged to abut against the bottom of the body, a rod for moving said cutters and trip mechanism for controlling the movement of said rod.

1,422,237. FIREARM. CARL G. SWEBILIUS, New Haven, Conn., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn., a Corporation of Delaware. Filed Sept. 24, 1919. Serial No. 325,835. 9 Claims. (Cl. 49—75.)



6. In a gun, a member having a socket, a second member engaging said socket, the first member having slots in the socket portion directed transversely to the socket and extending through the socket wall, the second member having grooves to register with said slots, pivoted plates on said first member movable in said slots into engagement with said grooves to lock said members together, and means carried by one plate adapted to engage the second plate to hold said plates in locking position.

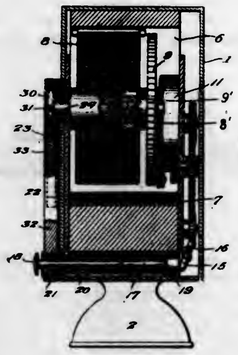
1,422,238. FIREARM. CARL G. SWEBILIUS, New Haven, Conn., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn., a Corporation of Delaware. Filed Sept. 24, 1919. Serial No. 325,836. 4 Claims. (Cl. 89—27.)



1. A means of attaching one member to another, comprising two slots in one of the members, one end of each slot being undercut, a lug carried by the second member and adapted to coact with the under cut of one slot and a draw bolt carried by said second member, said bolt having a head adapted to coact with the undercut end of said second slot.

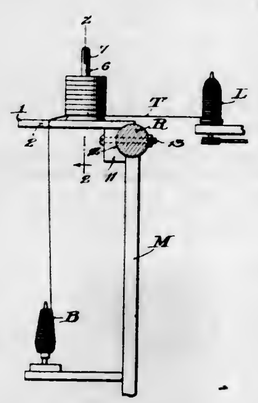
1,422,239. FLASH LIGHT. CHARLES W. SWINGLE, Chicago, Ill. Filed May 7, 1920. Serial No. 379,627. 5 Claims. (Cl. 240—8.5.)

1. A flash light comprising a casing, an electric bulb therein, a current generator within the casing and in circuit with the bulb, gears for driving said generator, operating means for said gears, a catch for preventing rotation of said gears, and manually operated means when in



one position for releasing said catch and capable when in another position for operating said operating means.

1,422,240. TENSION DEVICE FOR SPOOLING MACHINES. SAMUEL TAYLOR and FREDERICK JARRY, New Bedford, Mass. Filed Apr. 19, 1922. Serial No. 555,567. 4 Claims. (Cl. 242—150.)

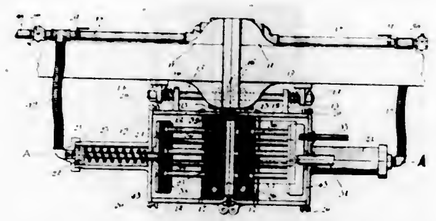


2. In a tension device for spooling machines, in combination with the rising and falling rod thereof, a plate-like member having a thread eye, a vertical stem extending upwardly from the member and having a split spring upper end, means to attach the member to the said rod of the machine, and a series of rotatable weights having openings to receive the stem, the lowermost weight having a beveled periphery over which the yarn passes.

1,422,241. ELECTRIC MULTIPLE-CONNECTION PLUG. CHARLES H. TOMLINSON, Mansfield, Ohio, assignor, by mesne assignments, to The Tomlinson Coupler Company, Mansfield, Ohio, a Corporation of Ohio. Filed Apr. 17, 1912. Serial No. 691,511. 71 Claims. (Cl. 173—332.)

45. In a car coupling, the combination with a casing containing a plurality of fixed contacts connected to train line circuits, and a movable carrier having corresponding contact bars, of fluid pressure means for projecting said

carrier to electrically connect the corresponding contacts of counterpart couplers, and a valve device for controlling the return movement of said carrier.

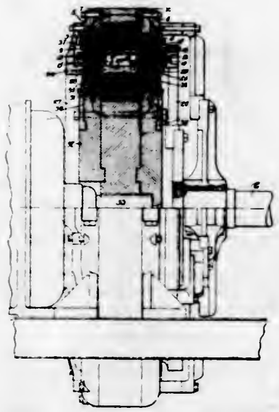


49. An electric train line coupling comprising a pair of cooperating counterpart coupler heads each having a plurality of contact terminals in the form of open-ended bushings connected to the respective car line circuits and each having a carrier provided with a plunger contact extending through the inner end of one of said bushings, and means for projecting said plunger contacts through said bushings and into a corresponding bushing of the cooperating counterpart coupler.

1,422,242. METHOD TO RENDER KAPOK AND OTHER FIBERS INCOMBUSTIBLE. RICARDO CARRERAS VALLS, Barcelona, Spain. Filed June 1, 1920. Serial No. 385,874. 2 Claims. (Cl. 23—5.)

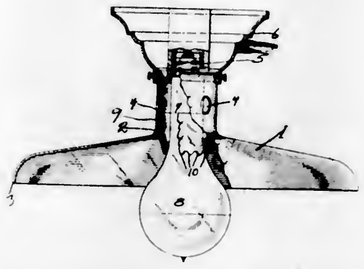
2. A process to render incombustible, kapok and other fibers having an impermeable outer cuticle or envelope, consisting essentially in treating the fiber with a volatile solvent of low boiling point such as alcohol and of rendering it permeable, and in also treating the fiber with ammonium phosphate which is capable of rendering the mass of the fibers incombustible by its penetration inwardly while the outer cuticle or envelope is in a softened and permeable state.

1,422,243. ELECTROMAGNETIC POWER-TRANSMISSION APPARATUS. RUDOLPH W. VAN NORDEN, San Francisco, Calif. Filed Oct. 30, 1918. Serial No. 260,223. 15 Claims. (Cl. 172—239.)



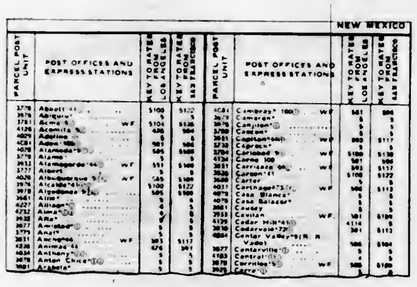
9. An electromagnetic power transmission apparatus, comprising an outer stator having two axially spaced laminated toothed cores, an inner stator having two axially spaced laminated toothed cores, an inductor arranged within the inner stator having two sets of axially spaced laminated pole pieces, and means for producing a magnetic flux passing axially through said outer stator and inductor and radially through said cores.

1,422,244. LIGHTING UNIT. ROBERT D. WARDELL, Detroit, Mich. Filed May 3, 1920. Serial No. 378,425. 4 Claims. (Cl. 240—92.)



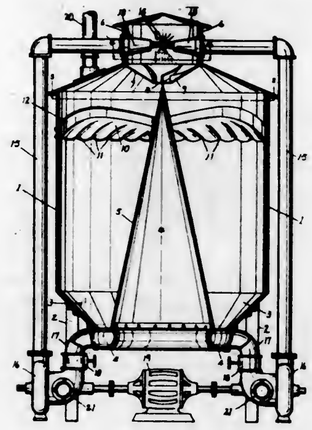
1. The combination of an electric lamp bulb having its lower end translucent forming a shield which will redirect some of the light rays upwardly, with a reflector surrounding said lamp bulb and having an elongated neck, there being a plurality of openings in said neck, a socket for said lamp, means to support said reflector, an annular cylindrical member mounted intermediate the skirt of the lamp and the neck of the reflector, a plurality of teeth on tbe lower edge of said annular member, the points of which engage the lamp bulb.

1,422,245. PARCEL-POST AND EXPRESS CHART. TIMOTHY E. WEST, Oakland, Calif. Filed Sept. 19, 1918. Serial No. 254,815. 8 Claims. (Cl. 283—23.)



PARCEL POST UNIT	POST OFFICES AND EXPRESS STATIONS	NEW MEXICO KEY TO RATES FROM LOS ANGELES	KEY TO RATES FROM SAN FRANCISCO
3178	Abbott	5100	5122
3979	Abiquiu	5	5
3781	Acme	WF 5104	5126
4126	Acomita	5	5
4009	Adelino	5	5
4261	Aden	5	5
3980	Alamogordo	5	5
3779	Alamo	5	5
3931	Alamogordo	WF 5	5
3777	Albert	5	5
3926	Albuquerque	WF 5	5
3978	Alcalde	5100	5122
3979	Algodones	5	5
3561	Alire	5	5
4227	Allison	5	5
4232	Alma	5	5
3932	Alto	5	5
3977	Amalia	5	5
3977	Amalia	5	5
3931	Ancho	WF 5	5
4236	Animas	5100	5122
3936	Anthony	5	5
3931	Anton Chico	5	5
3981	Arabela	5	5
3981	Arabela	5	5
3931	Arch	5	5
3931	Arch	5	5
3931	Arch

verted conical bottom, a cone disposed centrally within said tank, a plurality of transversely inclined deflector plates disposed radially at the upper end of said cone, a chamber having an inverted conical bottom with a central discharge opening, the top of the cone being close to and centrally of said discharge opening, plates arranged on said nozzle chamber bottom to impart a rotary motion to the material discharged therethrough, and a pump discharging into said chamber and having its intake connected to the bottom of said tank.



17. The method of distintegrating paper consisting of discharging under pressure the paper to be disintegrated with a suspending or carrying liquid through nozzles disposed so that the material and liquid of one stream impinge with the material and liquid of another stream, the nozzles being spaced so that there is a substantial spreading of the streams at the point of their impingement.

1,422,252. LOADING AND TRANSPORTING APPARATUS. LADISLAS B. BOREIKO, Honolulu, Territory of Hawaii. Filed May 4, 1921. Serial No. 466,847. 8 Claims. (Cl. 198—122.)



1. A field conveying and loading apparatus including a runway consisting of a plurality of open topped troughs arranged in end to end relation and interconnected at their adjacent ends, an anchor associated with one end of said runway permitting the opposite end to swing in an arc about said anchor, a self propelled power unit over which the discharge end of said runway extends for elevating the discharge end in a plane above the remainder, an endless conveyer opearting within said runway, conveyer members carried thereby, sheaves around which said conveyer operates, and a power connection between said self propelled power unit and said conveyer.

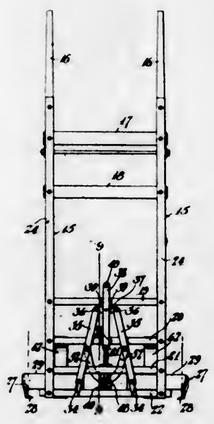
1,422,253. POWDER DISTRIBUTOR. COLIN BROWN, Rochester, N. Y. Filed Aug. 22, 1919. Serial No. 319,281. 4 Claims. (Cl. 43—147.)

4. In a powder distributor, the combination with a casing enclosing a powder chamber and an air chamber, of a discharge nozzle on the powder chamber, a piston in the air chamber, a conduit joining the powder chamber with the air chamber, a Y shaped nozzle within the powder chamber connected to the conduit and adapted to discharge jets of air against the lower portions of the opposite end walls, a valve on each side of the piston closing



the ports between the air chamber and conduit, each of said valves being adapted to prevent back flow from the conduit into the air chamber, valve control intake ports for the air chamber also on each side of said piston, and a handle on the casing adjacent an end thereof and having a bracket portion acting as a guard for one of the intake ports.

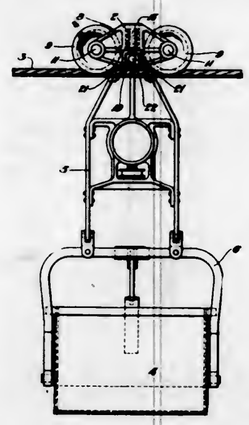
1,422,254. HAND TRUCK. CARL O. CARLSON, Riverside, Calif. Filed June 2, 1920. Serial No. 386,053. 9 Claims. (Cl. 214—65.5.)



1. A hand truck comprising a frame, supporting wheels for the frame, locking means in the frame, and a pair of movable jaws mounted in the frame arranged to be moved by the weight of the load into engagement with said locking means.

1,422,255. AERIAL TRAMWAY. FREDERICK C. CARSTARPHEN, Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Jan. 27, 1922. Serial No. 532,139. 4 Claims. (Cl. 105—750.)

2. An aerial tramway carriage comprising a body portion, wheels journaled at each end of said body portion, a piston member mounted in a suitable cylinder recess formed intermediate the ends of said carriage, said piston being provided with a head portion and a shank portion and adapted to suspendingly support a load carrying member, a spring member for normally yieldably holding said piston in its uppermost position, and said piston head portion being adapted to form an air cushion above said head on the up stroke when said piston is reciprocated vertically.



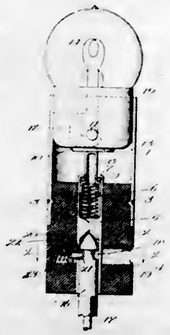
1,422,256. CAP GAUGE FOR PNEUMATIC TIRES. FREDERICK A. CONRAD and JAMES L. CONRAD, Los Angeles, Calif. Filed Sept. 27, 1919. Serial No. 326,964. 7 Claims. (Cl. 73—110.)



1. A cap gauge for pneumatic tires comprising a cylindrical cap, a hollow stem on the lower end of the cap having an interiorly threaded portion arranged to engage the end of the valve stem of the tire, a hollow plunger extending through said cap arranged to engage the valve member in said valve stem, an elastic bag in said cap surrounding said hollow plunger in open communication with the interior of the hollow plunger, means for yieldingly holding said bag in collapsed position and an indicator operated by said bag.

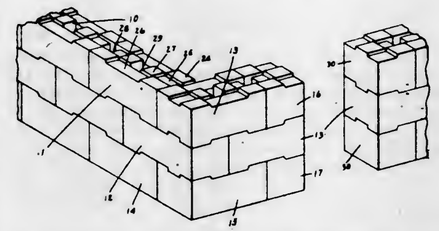
1,422,257. CIRCUIT CONNECTOR. HARRY A. DOUGLAS, Bronson, Mich. Filed Aug. 15, 1918. Serial No. 250,022. 1 Claim. (Cl. 173—328.)

A circuit connector including a contact carrier having a recess therein, a longitudinally recessed conductor extending through the carrier and intersecting the recess of the carrier at right angles thereto, said conductor having a passage therein of less diameter than the recess of the carrier and connecting the conductor recess with the carrier recess, a latch slidable in the carrier recess and having a reduced forward end operating in the passage of the conductor and forming a shoulder engageable with the conductor to limit locking movement of the latch, and a spring between the latch and the base of the carrier



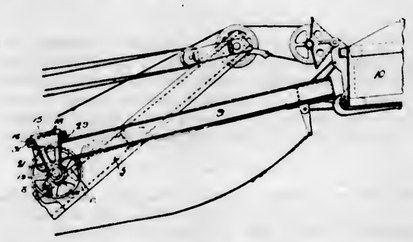
recess operating to project the latch against a circuit extending plug inserted in the recess of the conductor to force said plug into firm contact with the conductor.

1,422,258. BUILDING BLOCK. HARVEY L. EMERY, Worthington, Ind., assignor to Self Lay Block & Machine Company, Vincennes, Ind. Filed Jan. 10, 1921. Serial No. 436,244. 6 Claims. (Cl. 72—38.)



2. A building block having an interlocking surface, said surface including a projection at each corner thereof separated by spaces and a central projection of equal height with the other projections and positioned between said corner projection and at the intersection of the diagonals therebetween, said central projection being receivable by two adjacent end spaces of two adjacent blocks of an adjacent tier when in wall formation.

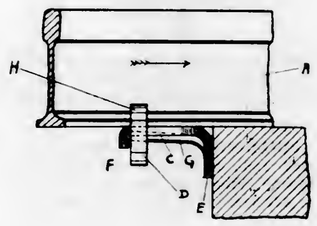
1,422,259. SADDLE-BLOCK STRUCTURE FOR EXCAVATORS. CLARENCE E. GAGE, Evansville, Ind., assignor to Bucyrus Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 17, 1921. Serial No. 445,729. 3 Claims. (Cl. 214—135.)



1. A structure of the class described comprising a shaft, a holding member in juxtaposition to the shaft and

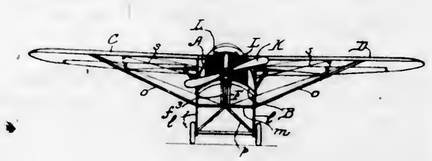
selectively movable with respect thereto, a shiftable member movable between the shaft and said holding member, and a slide plate carried by the holding member and disposed between the holding member and shiftable member for sliding engagement with the latter, said plate retaining the holding member against movement whereby to hold the shiftable member in definite relation to the shaft and against removal from its normal position, said slide plate being readily removable from the holding member to permit movement of the latter with respect to the shaft and the shiftable member for the disassembling of the latter.

1,422,260. ANTICREEPER. HORATIO G. GILLMOR, Washington, D. C. Filed Jan. 22, 1919. Serial No. 272,569. 10 Claims. (Cl. 238—324.)



2. A rail anchor, comprising a rigid rail base engaging member formed with a movement limiting shoulder and with a tie engaging flange and a resilient yoke which extends around the rail base engaging member and the rail base, said member and said yoke interlocking and being adjustable to the operative position upon the rail by movement of both transversely upon the rail and so constructed that movement of said yoke in relation to said tie abutting member in one direction will effect a positive wedging action.

1,422,261. AIRCRAFT. FREDERICK W. GORE, Huntington, N. Y. Filed Dec. 9, 1919, Serial No. 343,667. Renewed Jan. 3, 1922. Serial No. 526,808. 26 Claims. (Cl. 244—12.)



1. An aircraft embodying a combined fuselage and main longitudinal plane comprising a plurality of cross sectional curved members positioned one below the other, the under surface of the lower member being free and unobstructed for the flow of air within a tunnel-like space extending lengthwise of the fuselage at the bottom thereof.

1,422,262. HAMMER. CHRIST HANSEN, Mink Creek, Idaho. Filed May 27, 1921. Serial No. 473,076. 1 Claim. (Cl. 254—26.)

A hammer comprising a head having claws of unequal length, the longer one being inclined toward the central line of the head and terminating in a point lying upon said central line, whereby an accurate blow may be struck with said point to force the same into a staple



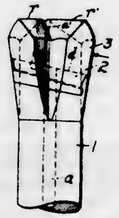
to be pulled, the space between said claws providing a nail-pulling slot, whereby said point may be used for pulling staples or the like.

1,422,263. TWO-PIECE-PULLEY CONSTRUCTION. FRED HASKEL, Detroit, Mich. Filed June 18, 1921. Serial No. 478,621. 6 Claims. (Cl. 254—192.)



1. In a pulley, the combination with a bendable U-shaped frame provided with a transverse pivot portion extending inwardly from one of its sides, said pivot portion having a length on the side farthest from the base of the U greater than that on the side nearest to the base, of a pulley wheel insertable between the sides of the frame and engageable over the pivot portion when the sides are separated.

1,422,264. DRILL. ARTHUR L. HAWKESWORTH, Butte, Mont. Filed Sept. 19, 1921. Serial No. 501,585. 9 Claims. (Cl. 255—64.)

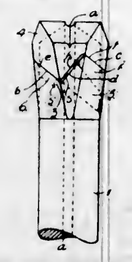


1. In combination with a drill-bar or shank terminating at one end in a tongue, the side walls of which are provided with grooves having one wall inclined to the shank offset at the base of the tongue, a bit movable across the axis of the shank and provided with an open-ended groove to receive the tongue, and tongues projecting from the walls of said groove for cooperating with the grooves in the side-walls of the shank tongue.

2. In combination with a drill-bar or shank, a bit detachably mounted thereon and movable across the axis of the shank in a direction so as to tighten on the shank during the drilling operation, said shank being provided with a port throughout its length, said bit also being provided with a port offset from the port in the shank and communicating therewith.

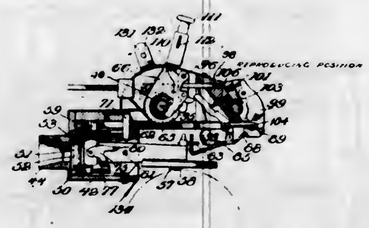
3. In combination with a drill-bar or shank, a detachable bit cooperating therewith, said bit being provided with a series of cutting edges converging to a point eccentric with the center of rotation of the shank, said shank and bit being traversed by a water-hole having an outlet at the convergence of the cutting edges.

1,422,265. DRILL. ARTHUR L. HAWKESWORTH, Butte, Mont. Filed Nov. 21, 1921. Serial No. 516,784. 4 Claims. (Cl. 287—103.)



1. In combination with a shank, a cutting tool adapted to be detachably secured thereto, said shank being provided on the cutting end thereof with a zigzag formation including an abutment wall provided with a tapered hole, said cutting tool being provided with complementary formations for cooperating with those on the shank, and having a tapered tongue adapted to be wedged in the aforesaid hole when tool and shank are assembled.

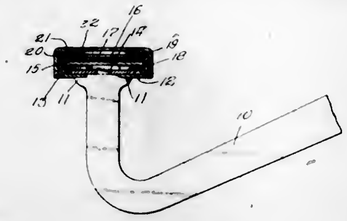
1,422,266. TALKING MACHINE. FRANK C. HINCKLEY, Bridgeport, Conn., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Mar. 20, 1917. Serial No. 156,044. 42 Claims. (Cl. 274—21.)



1. The combination in a talking machine of a record support, a sound-box, feed devices for advancing and returning said sound-box across said support, cooperative mechanism between them adapted to be operated to render one or the other operative, and means mounted upon the machine and movable into and out of functional position, and adapted in said functional position to be operated to actuate said cooperative mechanism.

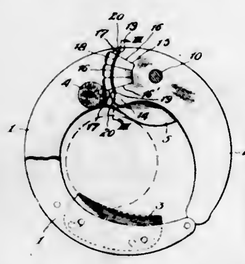
1,422,267. COVER FOR TYPEWRITER KEYS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Dec. 19, 1919. Serial No. 345,948. 3 Claims. (Cl. 197—102.)

1. In combination, a typewriter key having a metallic outer surface member surrounding the lateral face thereof and having the upper face thereof arranged to carry a designation character and a cover ring of relatively hard non-metallic material of a size to fit snugly over said key without material stretching of said ring, said ring having the upper edge thereof turned inwardly to provide an inwardly projecting flange with a central opening



to permit the designation character upon the upper face of said key to be seen by the operator.

1,422,268. TYPE-HOLDING MEANS FOR MARKING DEVICES. ADOLPH G. HUPPEL, Reno, Nev., assignor to Hup Mfg. Co. Inc., New York, N. Y., a Corporation of New York. Original application filed Feb. 7, 1921, Serial No. 443,120. Divided and this application filed June 28, 1921. Serial No. 480,990. 4 Claims. (Cl. 101—377.)



2. In a marking device, the combination of a marking member provided with a type receiving recess intersecting one end and both sides of said member; types in said recess provided with lateral end registering grooves; and means secured to said marking member engaging said grooves to hold said types in said recess.

1,422,269. COKING OF COAL. STEWART ROY ILLINGWORTH, Treforest, Wales. Filed Mar. 1, 1921. Serial No. 448,871. 5 Claims. (Cl. 202—8.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

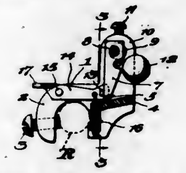
1. In the art of coking coal the improvement which comprises submitting the coal out of contact with air to a temperature and for a time sufficient to destroy a portion of the non-coke producing substances in the coal, but to leave 5% by weight of the resinic substances in the product.

1,422,270. RECIPROCATING PAN CONVEYER. GEORGE C. ILLINGWORTH, Anniston, Ala. Filed July 25, 1921. Serial No. 487,312. 10 Claims. (Cl. 198—220.)



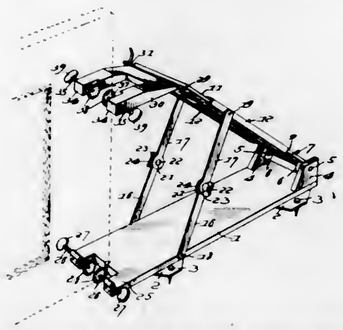
1. A conveyer composed of a series of detachable pans, connecting straps attached to adjacent ends of the pans, bolts connecting the straps and forming a flexible joint between the pans and means to reciprocate the pans.

1,422,271. SLUB CATCHER. FREDERICK JARRY, New Bedford, Mass., assignor of one-half to Samuel Taylor, New Bedford, Mass. Filed Dec. 1, 1921. Serial No. 519,268. 6 Claims. (Cl. 28—64.)



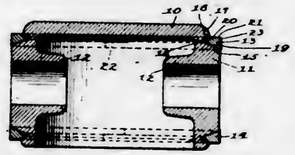
2. In a slub catcher, a frame having a face inclined to the horizontal, a swinging frame cooperating with said face to define a thread passage therebetween, and engageable with the high side of the inclined face to limit swinging of the frame in one direction, means to adjust the frame relative to the table, and a pivoted tensioned lever engaging the swinging frame to limit swinging in the opposite direction and being movable to allow the frame to be swung to release a caught slub.

1,422,272. BENCH OR FLOOR DOG. FRANK JASKOWIAK, St. Cloud, Minn. Filed Dec. 14, 1921. Serial No. 522,330. 5 Claims. (Cl. 144—296.)



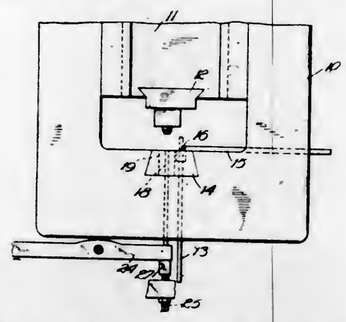
1. In a floor or bench dog, a base member adapted to be secured to a stationary support, the opposite end of the base member having upstanding supports, a supporting member pivotally mounted upon said supports, said pivotally mounted member having a yieldably mounted extension, means for holding the pivotally mounted member in different positions pivotally relatively to the base member, the corresponding ends of the base member and the extension having axially aligned clamps, between which the door, window sash or the like may engage, whereby it may be planed.

1,422,273. PISTON AND PISTON RING. HARRY B. JOHNSTON, Seattle, Wash. Filed Jan. 17, 1921, Serial No. 437,816. Renewed May 18, 1922. Serial No. 562,036. 5 Claims. (Cl. 74—109.)



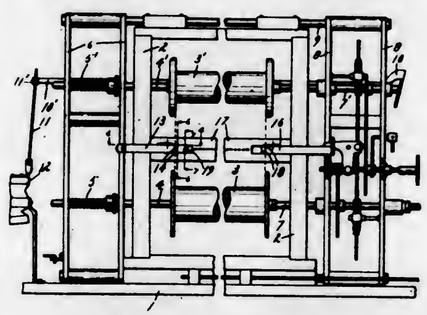
1. In combination, a piston having a groove adjacent its end, and a ring in the groove, the groove having a narrow inclined conical wall inclining outwardly and toward the surface of the piston adjacent its head which is exposed to the pressure at the end thereof, a conical wall inclined oppositely to the narrow inclined conical wall of the groove, the ring having two conical surfaces for contact and cooperation with the conical walls of the groove.

1,422,274. METHOD AND APPARATUS FOR MAKING HEADED MACHINE PARTS. DAVID EMANUEL JOHNSON and THORVALD AUGUST MADSEN, Rockford, Ill., assignors to National Lock Company, Rockford, Ill., a Corporation of Illinois. Filed July 8, 1920. Serial No. 394,671. 4 Claims. (Cl. 10—11.)



1. The process of forming a headed member comprising the step of supporting a blank in a die, the step of shaping the body of the head, the step of protruding the blank from said die, and the step of shearing the fin from the protruded blank.

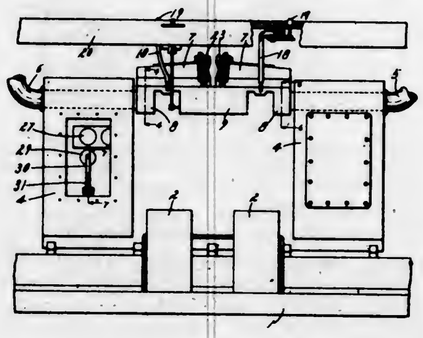
1,422,275. PNEUMATIC PIANO PLAYER. WALTER LANE, Holland, Mich. Filed May 19, 1917. Serial No. 169,669. 12 Claims. (Cl. 84—145.)



1. In a structure of the class described, the combination of a web support, tracker bar, means for controlling the movement of said web support in the direction of the length of the tracker bar comprising pneumatics, and a pair of tracker members slidably associated with said tracker bar and movable with said web support and provided with ducts connected to said pneumatics, one of said tracker members being provided with a loud pedal duct.

1,422,276. AUTOMATIC PLAYER PIANO. WALTER LANE, Holland, Mich. Filed May 19, 1917. Serial No. 169,670. 8 Claims. (Cl. 84—41.)

S. In a structure of the class described, the combination with the exhauster means of reservoirs communicating therewith, a pair of suction chests, means for regulating the suction in said suction chests comprising a suction regulating pneumatic, and manually controlled means for regulating the suction in each of said suction chests individually, and separate manually controlled means for regulating the suction in both of said suction chests, the first and last manually controlled regulating means being arranged in series whereby the latter means can control the action of the other.

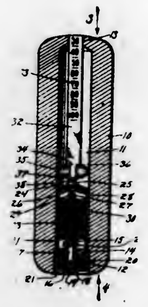


1,422,277. CHILD'S CARRIAGE. CHARLES A. LINDBERG, Sturgis, Mich., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Filed June 2, 1921. Serial No. 474,346. 8 Claims. (Cl. 280—47.)

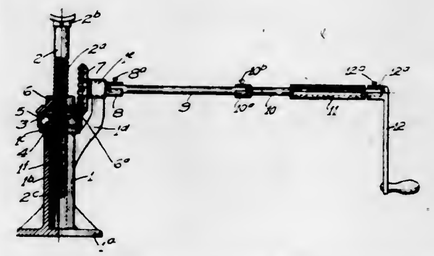
1. In a carriage, the combination of a supporting frame, comprising side members and spaced cross bars provided with opposed centrally disposed inwardly projecting offsets, an annular way mounted between said side members and cross members with the lower edges of the offsets of the cross members projecting below the lower edge of the way, a body support, comprising transverse members and connecting members therefor, said transverse members having central downward offsets therein disposed within said way, the shoulder portions of said offsets having recesses therein receiving said way, a latch pivoted on one of said transverse body support members to coact with the projecting lower edges of the offsets of said supporting frame cross members, and a spring for said latch.

1,422,278. PRESSURE GAUGE. ARTHUR B. LOW, Denver, Colo. Filed Aug. 4, 1921. Serial No. 489,818. 3 Claims. (Cl. 73—111.)

1. A pressure gauge of the character disclosed, embodying a casing that provides a longitudinal chamber opening to a top guiding aperture and having a bottom closure provided with a duct therethrough and including a valve stem contacting element and a surrounding seating face, an elongated indicator operating at its outer end through said top guiding aperture and towards its inner end provided with a combined centering, guiding and retaining element slidingly associated with the wall of said chamber in yielding frictional contact therewith, actuating means adapted only for outwardly operating said indicator with its retaining element by pressure fluid admitted through said duct, and retractile means for said actuating means.

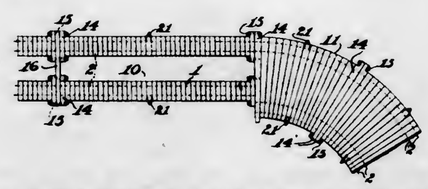


1,422,279. JACKSCREW. JOHN M. LYDICK, San Diego, Calif. Filed Apr. 27, 1920. Serial No. 376,910. 2 Claims. (Cl. 254—103.)



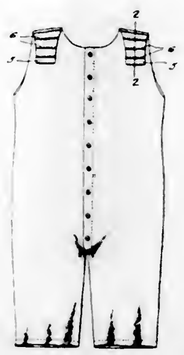
1. A jack screw, including a base member provided with an integral sideways and upwardly extended side arm journal portions extending from one side thereof, a bevel gear with its lower face downwardly, supported on said base member and threaded internally, a screw member adapted to screw into said thread in said bevel gear, a bevel gear intermeshing with said first mentioned bevel gear journaled in said side arm on said base and means for revolving said bevel gear.

1,422,280. PORTABLE ROADWAY. ARNOLD C. LUETGERT and ERNEST H. MEIKLEJOHN, Seattle, Wash., assignors of one-third to Ralph D. Brown, Seattle, Wash. Filed Mar. 31, 1921. Serial No. 457,167. 6 Claims. (Cl. 238—3.)



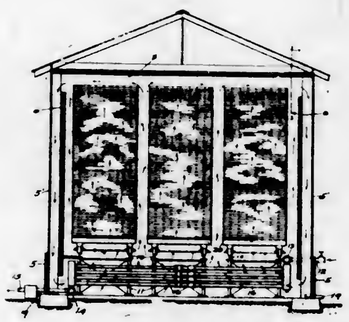
1. A portable sectional roadway, each section consisting of a series of beams placed side by side and a flexible cable passing through all said beams to hold them together.

1,422,281. UNDERGARMENT. CLARENCE R. MCFARLAND, Marion, Ill. Filed Feb. 21, 1921. Serial No. 446,692. 1 Claim. (Cl. 2—144.)



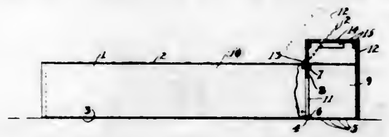
A one piece undergarment having integrally formed shoulder portions in the nature of straps which are folded upon themselves and stitched, the stitched folds on each of the straps being arranged in spaced superimposed relation to each other whereby the stitching between any of the folds may be severed without interfering with the stitching of the remaining folds.

1,422,282. HEAT-RADIATING DEVICE. EUGENE G. MCGLAUFLIN, Portland, Oreg. Filed Mar. 17, 1920. Serial No. 366,504. 1 Claim. (Cl. 257—155.)



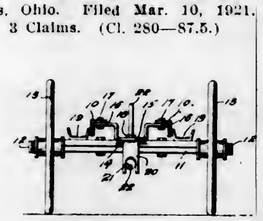
A heat radiating device, wherein is combined, a feed pipe, a discharge pipe positioned below the plane of the feed pipe, and a series of batteries of lateral pipes, each lateral pipe being independent and extending from a connection with the feed pipe at an angle and inclination, to a connection, thence in a reverse angle and inclination to a connection with said discharge pipe, each of said lateral pipes being arranged to allow effective drainage through the same, without auxiliary means therefor, and also to allow each lateral pipe and sections thereof to be secured, adjusted, or removed between connections, independently of other pipes in said radiating device.

1,422,283. HUTCH. JOHN F. MCKIM, San Jose, Calif. Filed June 11, 1920. Serial No. 388,145. 2 Claims. (Cl. 119—19.)



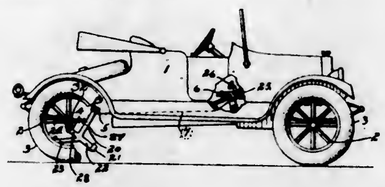
1. In a device of the character described, a housing having an open top, a hopper hinged to the housing and adapted to form a closure for the top thereof, and a wire mesh bottom for said hopper.

1,422,284. STEERING MECHANISM. RUDOLPH A. MACK, Gallipolis, Ohio. Filed Mar. 10, 1921. Serial No. 451,384. 3 Claims. (Cl. 280—87.5.)



2. In a vehicle of the character described, the combination of a vehicle frame, a fifth wheel member carried by said frame, a bracket formed integral with said fifth wheel member and projecting downwardly therefrom, an axle pivoted to said fifth wheel member, a bracket formed integral with said axle and projecting downwardly therefrom substantially alined with the bracket of said fifth wheel member, the said fifth wheel member bracket having an opening therein, the bracket of said axle being forked, a steering post rotatably mounted in the opening in said fifth wheel bracket, and an eccentric at the free end of said steering post fitting into the forked end of the axle bracket.

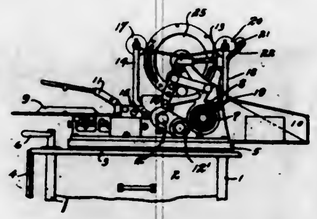
1,422,285. ANTISKID DEVICE. WALTER L. MAJORS, St. Louis, Mo. Filed Mar. 24, 1920. Serial No. 368,352. 9 Claims. (Cl. 188—2.)



4. In a device of the character described, the combination of a pair of rotary spiders, a shaft with which they move in unison, means for actuating the same, the said actuating means consisting of a tire-grip, means for forcing the same into contact with the tires, the said spiders having each thereon such tire-grip, and an arm for hoisting the car.

1,422,286. MIMEOGRAPH ATTACHMENT. WALTER L. MAJORS, St. Louis, Mo. Filed Mar. 31, 1920. Serial No. 370,193. 7 Claims. (Cl. 101—175.)

1. In an apparatus adapted to print in different colors, the combination of a printing member having ridges or projections, and adjoining rolls having depressions and parts projecting relative to the said depressions, the said ridges



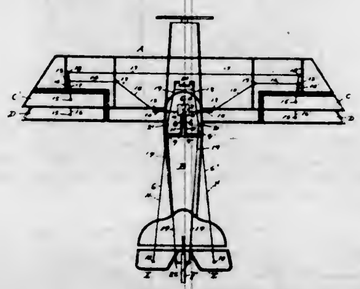
being composed of individual elements or blocks adapted to vary the same as to length, and a tongue adapted to hold the said elements.

1,422,287. FLY EXTERMINATOR. EDWARD J. MARCHAND, Duluth, Minn. Filed Aug. 27, 1921. Serial No. 495,996. 1 Claim. (Cl. 43—112.)



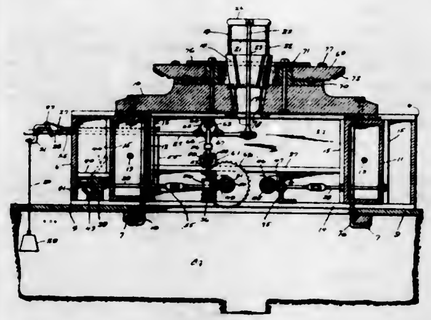
A device of the character described comprising a shallow elongated open receptacle, means for attracting flies in the bottom of the receptacle, spaced non-insulated electric wires transverse the opening, an open electric circuit associated with the wires, side walls upon the longer sides of the receptacle, one of said side walls being pivotally attached at one end whereby to conveniently remove the dead flies when collected within the receptacle.

1,422,288. CONTROLLING MECHANISM FOR FLYING MACHINES. ROBERT E. MITTON and WAYNE M. BRALEY, Salt Lake City, Utah, assignors, by direct and mesne assignments, to Mitton-Braley Aero-Plane Control Co., Salt Lake City, Utah, a Corporation of Utah. Filed Feb. 4, 1920, Serial No. 356,213. Renewed May 15, 1922. Serial No. 561,168. 4 Claims. (Cl. 244—29.)



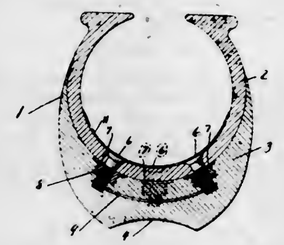
1. A controlling mechanism for flying machines of the character described, in combination with a base or support sustaining a pivot, the pivot, a rod running through said pivot for supporting the pilot's seat, a counter balance mounted on lower end of said rod in such a way that it may revolve freely to decrease friction with the sides of the base or support, the tendency of said counter balance to hang straight downward actuating the controlling surfaces for the maintenance of stability and holds the pilot's seat level.

1,422,289. GRIPPING DEVICE. JOSEPH F. MOODY, Ranger, Tex. Filed Dec. 17, 1920. Serial No. 431,443. 13 Claims. (Cl. 255—35.)



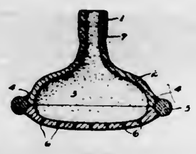
1. In a well-drilling appliance, a work gripping means, and means controlled by speed of descent of the work for placing the gripping means in operative position.

1,422,290. TIRE CASING. DANIEL MORIARTY, Oakland, Calif. Filed Mar. 14, 1922. Serial No. 543,701. 5 Claims. (Cl. 152—17.)



5. A tire casing comprising an inner member of fabric material, a rubber tread for the same, a plurality of screws extending through the fabric into the rubber having nuts thereon adjacent the fabric for firmly holding the screws to the latter, reinforcing wires between the screws within the rubber and a layer of asbestos inside the casing for preventing heat to spread from the screws to the inner tube.

1,422,291. BATH SPRAY. JAMES A. MULHERIN, St. Louis, Mo., assignor of one-third to Henry D. Delkeskamp, St. Louis, Mo. Filed Mar. 14, 1921. Serial No. 452,166. 2 Claims. (Cl. 299—141.)



1. A bath spray comprising a hollow head formed from soft rubber provided in its outer edge with a groove, and a ring of hard rubber detachably received in said groove and constituting a stiffening means for said head.

1,422,292. STAIN COMPOSITION. ALEXANDER MURRAY, Marietta, Ohio, assignor to The Marietta Paint & Color Company, Marietta, Ohio, a Corporation of Ohio. Filed July 13, 1920. Serial No. 395,924. 5 Claims. (Cl. 134—48.)

4. A stain comprising a solution of a dyestuff, a projective colloid, water, and a plurality of organic liquids, at least one of which is readily water-soluble, and at least one other of which is not, such organic liquids being incapable of destroying either the soap or the said dyestuff and incapable of readily dissolving dried glue.

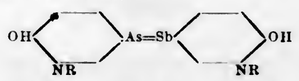
1,422,293. CAR-COUPLING RELEASE RIGGING. GEORGE E. MURRAY, Battle Creek, Mich., assignor to Walter P. Murphy, Chicago, Ill. Filed Apr. 26, 1920. Serial No. 376,752. 1 Claim. (Cl. 213—59.)



The method of transforming the usual one piece rotatably mounted lock operating rods of car couplers having a horizontally extending eye in its crank arm, which consists in twisting said eye substantially 90 degrees so that the eye extends vertically, whereby said vertically extending eye and the lock pin may be connected by means of a single closed split link.

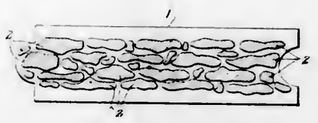
1,422,294. COMPLEX ARSENO-STIBINO COMPOUNDS AND PROCESS OF MAKING THE SAME. CHESTER NEWTON MYERS, Valley Falls, N. Y., assignor to Herman A. Metz, New York, N. Y. Filed Apr. 21, 1921. Serial No. 463,327. 12 Claims. (Cl. 260—11.)

12. Arseno-stibino compounds comprising a brownish yellow amorphous powder readily soluble in cold water and having the formula



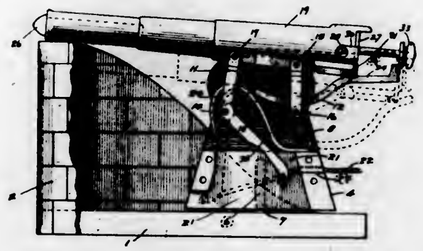
the alkalinized solutions of said compounds being suitable for intravenous injection.

1,422,295. PLATE FOR USE IN LINING BURGLAR-PROOF VAULTS AND SIMILAR PURPOSES. FRANCIS J. NAPOLITAN, Jersey City, N. J., assignor to American Abrasive Metals Company, a Corporation of New York. Filed Aug. 13, 1921. Serial No. 492,202. 2 Claims (Cl. 109—1.)



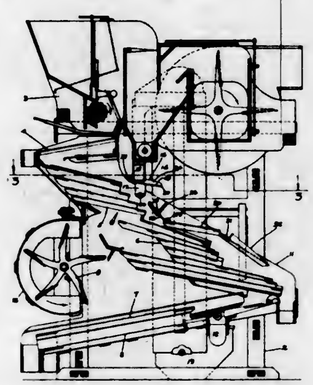
1. As a new article of manufacture a plate for use in forming bank vaults and similar purposes which plate comprises a matrix of cast iron or other metallic material in which are embedded closely packed masses each comprising fused and crystallized aluminum oxide in the form of a graded aggregate.

1,422,296. FORT DISAPPEARING GUN. CYRILL OTTOLINI, Calistoga, Calif. Filed Aug. 11, 1921. Serial No. 491,390. 5 Claims. (Cl. 124—12.)



1. In a toy gun, a barrel, a carriage supporting the same comprising a plurality of pivotal supporting links having means associated therewith for thrusting the barrel upward and forward, spring means within the barrel for imparting a forward thrust to a projectile, a trigger supported on the barrel for setting the spring, and means opposing the forward thrust of the trigger for tripping the same.

1,422,297. GRAIN-FEEDING SPREADER. RICHARD L. OWENS, Minneapolis, Minn. Filed Nov. 18, 1921. Serial No. 516,136. 3 Claims. (Cl. 130—15.)

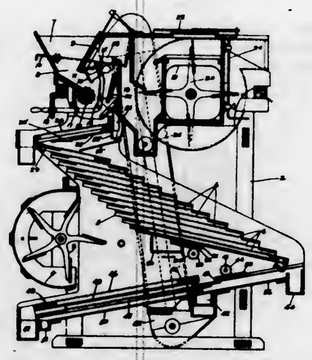


1. A spreader and feeder comprising in combination a plate having a front feeding edge, a diagonally arranged rear wall and means for supporting said plate, and permitting adjustment thereof both longitudinally and laterally, for the purpose set forth.

1,422,298. GRAIN SEPARATOR. RICHARD L. OWENS, Minneapolis, Minn. Original application filed Dec. 12, 1917, Serial No. 206,783. Divided and this application filed Nov. 18, 1921. Serial No. 516,137. 5 Claims. (Cl. 130—15.)

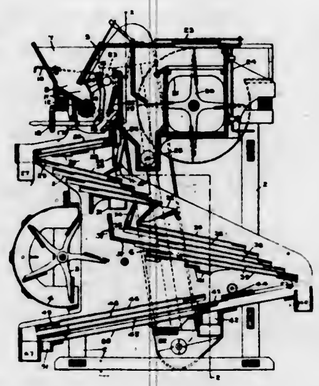
1. In a grain cleaning machine, the combination, with a grain delivering hopper, of a plurality of sieves arranged in an inclined gang, means for delivering the grain in a sheet upon the upper sieve of the gang, and passing through and over the sieves of the gang, an oppositely inclined screen arranged beneath the upper portion of the lower sieve of the gang, an inclined deck arranged beneath the lower portion of said lower sieve, a repeat elevator arranged to receive material from said

inclined deck, and an adjustable repeat board arranged to selectively divide the material passing through the



lower portion of the lower sieve of said gang between said repeat spout and the oppositely inclined screen.

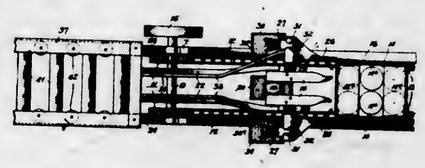
1,422,299. GRAIN SEPARATOR. RICHARD L. OWENS, Minneapolis, Minn. Filed Dec. 12, 1917, Serial No. 206,783. Renewed Apr. 17, 1922. Serial No. 553,915. 23 Claims. (Cl. 130—15.)



4. In a grain cleaning machine, a hopper, primary and secondary gangs of sieves whereto the material is delivered by said hopper, and a gate interposed between said gangs for selectively directing the material falling through the sieves of the upper gang upon the upper sieves of the lower gang or the lower sieves of said lower gang.

1,422,300. APPARATUS FOR SEALING BOXES. AMAND PAPE, Willow Springs, Ill. Filed Apr. 9, 1920. Serial No. 372,451. 10 Claims. (Cl. 93—7.)

1. In a box sealing machine, the combination of a conveyor adapted to receive and successively advance filled boxes and comprising members underlying the side margins of the box and formed to leave the intermediate portions of the bottom of the box exposed with the bottom flaps between them, and means for folding the bottom



flaps upwardly and between said members and securing them to seal the bottom of the box.

1,422,301. POST FOR WIRE FENCING. CLARK PARKER, Baulkham Hills, New South Wales, Australia; Ethel Parker administratrix of said Clark Parker, deceased. Filed Apr. 30, 1919. Serial No. 293,884. 1 Claim. (Cl. 189—29.)



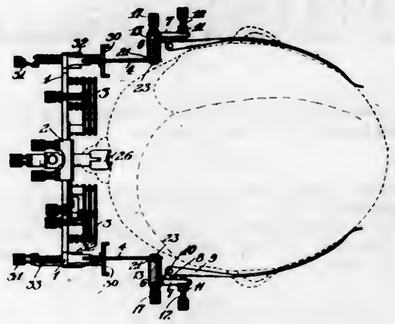
A metal fence post comprising a flat bar and a driving anchor riveted thereto, the anchor being triangular in side elevation and folded longitudinally to permit a groove to receive the post and contact therewith on both sides thereof so that the width of the anchor will extend transversely of the narrowest dimension of the post.

1,422,302. PIPE WRENCH. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of New Hampshire. Filed July 31, 1920. Serial No. 400,396. 5 Claims. (Cl. 81—64.)



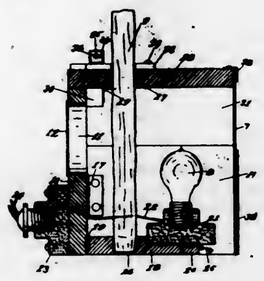
1. A pipe wrench including a handle and a flexible band secured at one end and detachably connected at its other end to said handle, said band having an effective gripping action throughout its engagement with the pipe and including extensible means permitting of extension of said band to prevent injury to the pipe when the force applied is excessive.

1,422,303. OPHTHALMIC TEST-LENS FRAME. MAX POSER, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Original application filed Mar. 15, 1916, Serial No. 84,358. Divided and this application filed Jan. 13, 1919. Serial No. 270,792. 10 Claims. (Cl. 88—20.)



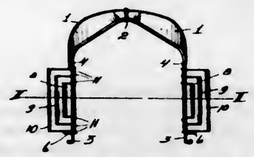
1. In an ophthalmic lens frame, the combination with a head piece, of a laterally flexible member projecting from said head piece adjacent an end portion thereof, a pivot pin carried by said member, and a temple pivotally supported by said pin for adjustment in a substantially vertical plane.

1,422,304. TREE HOLDER. GEORGE B. POWERS, Superior, Wis. Filed Mar. 8, 1921, Serial No. 450,698. Renewed Jan. 30, 1922. Serial No. 532,857. 6 Claims. (Cl. 248—38.)



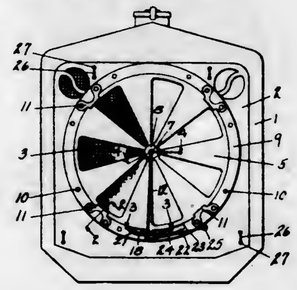
2. In a device of the class described, a back having a hole therein, a base member hingedly secured to the back, a socket on said base member adapted to be folded into said hole, and means for supporting a tree on said base member.

1,422,305. AUTOMOBILE HOOD. RICHARD E. ROBINSON, Kansas City, Mo. Filed Sept. 10, 1920. Serial No. 409,426. 1 Claim. (Cl. 180—69.)



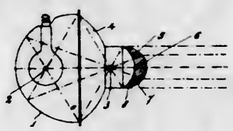
A motor car hood provided with openings at its sides, and wings extending outward at the rear margins of such openings, each succeeding wing increasing in length and width in such proportion that there will be a greater quantity of air entering each succeeding opening from the front to the rear of the hood.

1,422,306. RADIATOR COVER. WALTER S. RUNNELS, Kalamazoo, Mich. Filed Mar. 18, 1921. Serial No. 453,240. 5 Claims. (Cl. 257—132.)



2. In a radiator cover, the combination of a cover plate having shutter openings therein, a circular shutter mounted on said cover plate by means of a tubular pivot and having openings therein adapted to be brought into register with the openings of said cover plate, a stop member on said shutter, a spring having an offset therein engaged in said shutter pivot, the inner arm of said spring being engaged with said cover plate and its outer arm being secured to said shutter whereby the shutter is held normally open, and means for closing said shutter attached to the outer arm of said spring.

1,422,307. PROJECTING DEVICE FOR BEAMS OF LIGHT. SALVATORE SALTO, Milan, Italy. Filed Jan. 19, 1920. Serial No. 352,377. 4 Claims. (Cl. 240—41.)



1. A projector for light rays comprising a curved reflecting surface, a concentrated source of light located at a focus of said surface, and a lens having its outer surface of ellipsoidal form located with a focus of the ellipsoid coincident with a focus of the reflecting surface and its inner surface of spherical form and centre also coincident with said last mentioned focus.

1,422,308. COMBINED FRICTION AND SPANNER WRENCH. JOHN A. SCHLEICHER, Saginaw, Mich., assignor to The Lufkin Rule Company, Saginaw, Mich., a Corporation of Michigan. Filed Nov. 21, 1921. Serial No. 516,572. 5 Claims. (Cl. 81—3.)



1. A combined friction and spanner wrench for a micrometer gage formed from a single piece of material

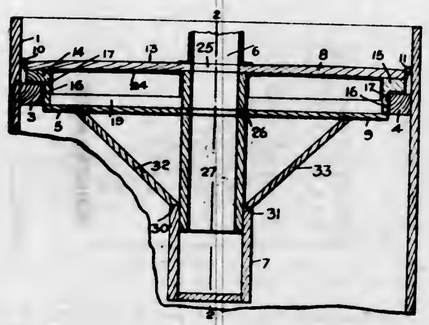
comprising a resilient embracing portion and a bifurcated portion for adjusting members of the gage without mutilation or destruction thereof.

1,422,309. APPARATUS FOR CLEANING ARTICLES. GEORGE W. SCHWEINSBERG and MASON I. DOYLE, Brooklyn, N. Y., assignors to U. S. Electrogalvanizing Company, a Corporation of West Virginia. Filed July 16, 1919. Serial No. 311,157. 9 Claims. (Cl. 266—7.)



1. In a machine for treating material by liquids in successive tanks, the combination with a unitary rotary member comprising a plurality of containers adapted to tumble and advance the material in contact with the liquids in the tanks in succession, of rotatable draining mechanism intermediate between and connecting said containers and having means for tumbling and advancing the material from one container into the next and draining the liquid back into each preceding tank from the articles.

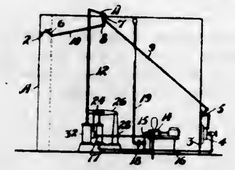
1,422,310. PHONOGRAPH. JAMES SHAW, Toronto, Ontario, Canada. Filed Sept. 2, 1921. Serial No. 497,908. 2 Claims. (Cl. 274—2.)



1. In a phonograph, a hollow bar-like member supported at its ends within a phonograph cabinet and having an orifice in its upper wall around which a tone arm base is adapted to be secured and having an orifice in its lower wall in vertical alignment with the orifice of the upper wall and around which lower orifice a horn is adapted to be secured for suspension, and a tubular connection extending between the walls and into the orifices.

1,422,311. AUTOMATIC DRAFT REGULATOR. CARLYLE J. SHERWOOD, San Francisco, Calif., assignor to Coen Co., San Francisco, Calif., a Corporation of California. Filed Sept. 24, 1919. Serial No. 326,105. 7 Claims. (Cl. 158—45.5.)

1. The combination with a boiler and furnace, an oil burner for the furnace, means for delivering oil under variable pressure to the burner, a damper adapted to regulate the air flow through the furnace, an enclosed reciprocally mounted member, means actuated by pressure variations in the oil adapted to admit oil to one side or



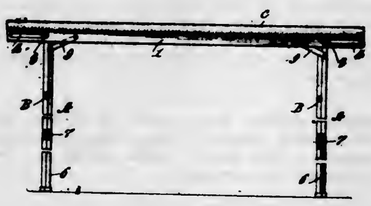
another of the reciprocally mounted member to impart movement thereto, and means for transmitting said movement to open and close the damper.

1,422,312. ELECTRIC CONDENSER. FRANKLIN S. SMITH, Philadelphia, Pa., assignor to The Products Protection Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 12, 1919. Serial No. 276,559. 12 Claims. (Cl. 250—41.)



2. An electric condenser comprising an air-tight container of dielectric material, a metal lining upon the inner surface of the said container, said lining having connection at one end with a metallic part projecting through the wall of one end of said container to the exterior thereof and the other open end of said lining terminating in opposed spaced relation to the opposite closed end of said container, and a metal member secured to the said opposite closed end and projecting therethrough into the space inclosed by said metal lining.

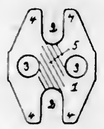
1,422,313. FOLDING TABLE. HUGH B. SMITH, University Place, Nebr. Filed Mar. 25, 1919. Serial No. 284,897. 1 Claim. (Cl. 45—11.)



A table including in combination, a pair of folding leg sections each consisting of two bars which are pivotally connected near their lower ends, two side bars having their upper ends recurved to provide an open seam tube with a slot near each end having a lateral extension, a pivot fastener fixed to each leg end arranged to work in a slot, a brace bar pivotally fixed to each end of said side bars and leg sections to hold said legs perpendicular, folding braces each consisting of two bars pivotally connected at their inner ends and having their outer ends pivotally fixed to said leg sections one of said braces having its end extending over to provide a hook for engagement with said other brace, a fabric top having side seams for engagement with said open seam tubular members, a rod held in said seams and said tubular members,

and a pivotal connecting member uniting said leg sections near the lower ends whereby increasing the leverage of said leg sections or in holding said top taut, all as and for the purpose set forth.

1,422,314. PROCESS OF MAKING WIRE-ROPE CLAMP CLIPS. GEORGE C. SOULE and JOHN B. WOODBURY, South Portland, Me. Filed Mar. 22, 1920. Serial No. 367,923. 1 Claim. (Cl. 113—116.)



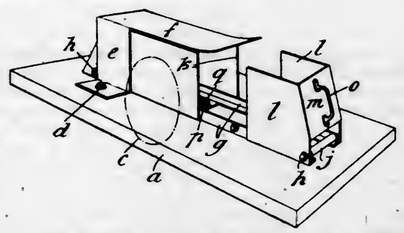
The process of making clamp members for wire rope clamps of the class described which consists of punching from a generally rectangular plate a pair of holes separated by the thickness of the rope and a pair of opposite slots extending in from the edges of said plate and at right angles to a line passing the center of said holes to form a pair of ears and finally turning said ears upwardly substantially at right angles to the body of said plate.

1,422,315. RADIATOR FOR MOTOR VEHICLES. CHARLES F. SPERY, Chicago, Ill. Filed Nov. 25, 1919. Serial No. 340,635. 8 Claims. (Cl. 257—129.)



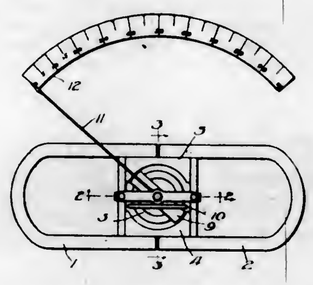
1. A radiator core, comprising a plurality of transverse series of vertically disposed, spaced apart, water tubes arranged in alinement from front to rear, said water tubes having a tapering transverse sectional contour and having rounded edges, the narrower part of the tubes being at the front of the core, the spaces between adjacent water tubes affording air conduits of gradually decreasing width there being in the converging walls of said tubes outwardly projecting diagonal protuberances to increase the cooling area of said tubes.

1,422,316. GUARD FOR CIRCULAR SAWS. GILBERT ELPHINSTONE HARVEY SPILLER, Eaglehurst, Chagford, England. Filed Oct. 3, 1921. Serial No. 504,940. 4 Claims. (Cl. 143—159.)



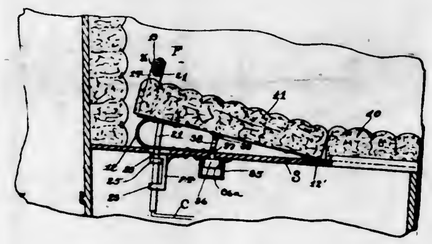
1. A guard for a circular saw working in a slot in a saw bench, consisting of a casing fixed to the bench and a drawer adapted to slide in the casing and having two plates spaced apart on each side.

1,422,317. ELECTROMAGNETIC MEASURING APPARATUS. JOSEPH C. STANGIER, Chicago, Ill.; Bertha Stangier administratrix of said Joseph C. Stangier, deceased. Filed Mar. 16, 1918. Serial No. 222,981. 8 Claims. (Cl. 171—95.)



1. In a measuring instrument of the kind described, for measuring a momentary flow of electricity, a magnetic field member, an indicating member including a coil pivotally mounted in the magnetic field to oscillate freely in the field when no current is flowing therein, and means for producing a restraining force on the indicating member which ceases as the indicating member comes to rest, and whereby the indicating member remains at its extreme indicating position.

1,422,318. AUTOMATIC SWITCH FOR CIRCUITS OF INTERNAL-COMBUSTION ENGINES. SIDNEY STEVENS, Millinocket, Me. Filed Oct. 6, 1920. Serial No. 415,060. 5 Claims. (Cl. 180—82.)

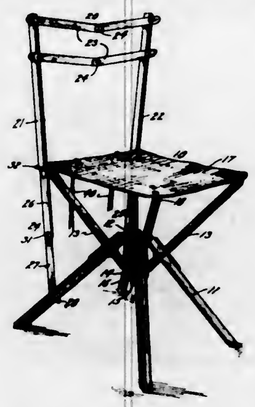


1. The combination with a vehicle embodying an internal combustion engine, a circuit therefor and a driver's seat embodying a vertical shiftable section, of means operated by the elevation of said seat for breaking the circuit of the engine and by the lowering of said seat for completing the circuit of the engine and means for locking said seat in elevated position comprising, a member secured to said shiftable seat section and embodying an angular portion provided with an opening, a member secured to the frame-work of the vehicle and embodying an angular portion against which the first-named angular portion abuts whe nthe seat is in the elevated position, said second-named angular portion being provided with an opening alined with the opening of the first-named angular portion and coacting therewith to receive the hasp of a padlock.

1,422,319. FOLDING CAMP CHAIR. FRANK M. STOLL, Denver, Colo. Filed July 1, 1921. Serial No. 481,827. 3 Claims. (Cl. 155—136.)

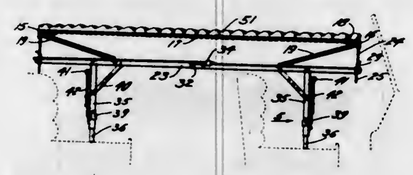
1. The combination with a chair of the class described of a back-rest consisting of two upright members flexibly

joined together by resilient means, adapted to be detached from said chair and collapsed, foldable supports for



supporting said back-rest on said chair, said foldable supports being adapted to fold within and simultaneously with said chair.

1,422,320. PORTABLE FOLDING BED. FRANK M. STOLL, Denver, Colo. Filed July 22, 1921. Serial No. 486,788. 5 Claims. (Cl. 5—5.)

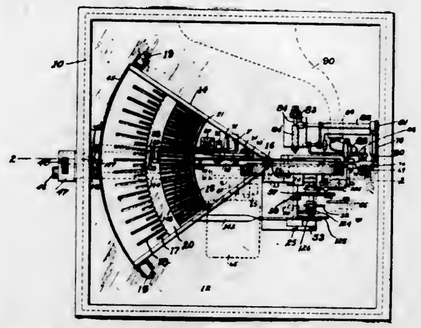


1. The combination, in a bed of the class described, of end bars supporting a flexible spring structure, said end bars being detachably braced and locked to foldable longitudinal bars; means for locking said cross bars to said longitudinal bars consisting of links pivoted at their upper extremities to said end bars and adapted to pass at their lower extremities through openings in said longitudinal bars, obstructions on said lower extremities adapted to prevent their removal from said openings, tongues or wedges slidably mounted on said links adapted to bring said obstruction into action; legs pivotally fastened to and braced from said longitudinal bars and adapted to fold thereon; cross bars connecting and braced from the pairs of legs at each end of said bed, said cross bars adapted to be disconnected at their mid point and folded parallel to said legs.

1,422,321. AUTOMATIC PHONOGRAPH. HADWEN SWAIN, San Francisco, Calif. Filed Aug. 2, 1917. Serial No. 184,101. 32 Claims. (Cl. 274—10.)

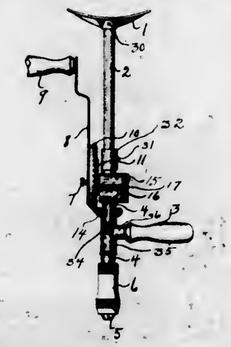
19. An automatic phonograph with suitable record rack, runways, a vertical turntable, with its operating parts, together with an arm passing close to and across the face of the turn-table to place the record that has been played back into the rack, said arm having a suitable roller or projection to raise one end of the lower runway into normal position after a large record has been played.

21. An automatic phonograph having a vertical turntable, a reproducer, a vertical reproducer arm, and a counter weight therefor so disposed as to continuously give the reproducer needle a slight constant impetus toward the rotating axis of the record.



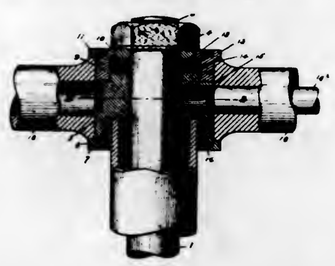
24. In a multiple disk phonograph, a turn-table, a tone arm adapted to operate in conjunction therewith, and a swinging rack adapted to hold a plurality of disk records in a vertical position and in radial relation to the pivotal center of said rack and from which the records may be delivered to the turn-table.

1,422,322. DRIVE FOR DRILLS AND SIMILAR TOOLS. WILLIAM THOMPSON and WILFRID J. ROY, Springfield, Mass., assignors to Consolidated Tool Works, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 9, 1920. Serial No. 415,754. 2 Claims. (145—67.)



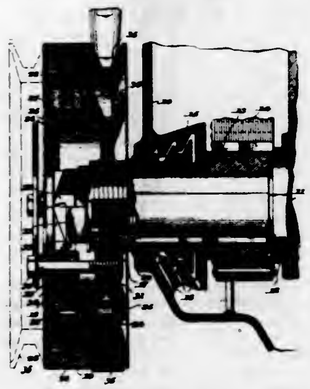
1. In combination, a casing comprising two adjacent notched socket members having sockets therein, a sleeve projecting from one socket member and adapted to be connected to a breast rest, a yoke projecting from the other socket member and secured to a sleeve adapted to support a revoluble spindle having a bevel gear secured thereto within the said yoke and adjacent the last mentioned socket member, a wheel having an outer bevel gear and an inner bevel gear, both of which are adapted to mesh with the first mentioned bevel gear, the said wheel having a spindle adapted to fit within either of the sockets of the said socket members so as to bring one or the other of its bevel gears into mesh with the first mentioned bevel gear, a reciprocating member mounted in a recess intermediate the said socket members, latch members pivoted to the said socket members the pivotal axes being parallel to the spindle and so connected to the said reciprocating member as to be operated by it, so that the said latch members are moved within or without the said sockets, the said spindle having a notch into which the said latches are adapted to fit so as to lock the same in the socket in which it is located.

1,422,323. STEERING WHEEL. WILLIAM LINCOLN TOBIAS, Toronto, Ontario, Canada, assignor to Joseph William McNab, Toronto, Ontario, Canada. Filed Sept. 29, 1920. Serial No. 413,634. 3 Claims. (Cl. 74—33.)



1. In a steering wheel, a steering post, a tube enclosing said post and terminating short of the top end of said post, a spider, a bushing keyed to said post and having the opening therethrough enlarged adjacent to the lower end thereof to receive said tube, said bushing being flanged around its lower end to form a support for said spider, said bushing also being reduced in thickness at its top end and threaded exteriorly, a cap threading over said top end and flanged to extend over the edge of said spider, and a bolt slidable in said spider and adapted to be projected into said bushing to prevent rotation of said spider.

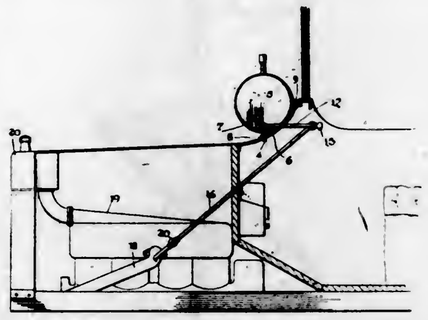
1,422,324. VIBRATION DAMPER FOR HYDROCARBON MOTORS. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 17, 1919. Serial No. 271,591. 9 Claims. (Cl. 74—6.)



1. In combination, a shaft, an inner member having a pulley groove therein, an outer member having a pulley groove on its outer surface and a flange portion extending inwardly from its inner surface and adapted to engage said inner member, and means for securing said members together.

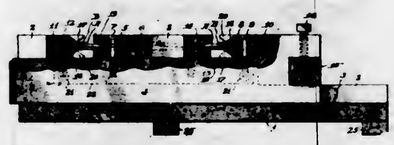
1,422,325. WATER TANK. EVANS WOOD, Tuttle, Idaho. Filed Aug. 31, 1921. Serial No. 497,327. 2 Claims. (Cl. 280—5.)

1. The combination with a motor vehicle having an internal combustion engine having a cooling system, said vehicle being provided with a cowl, of a tank secured on said cowl, a pipe extended rearwardly from the tank and having a laterally projecting branch, a valve interposed in said branch and arranged within convenient reach of the vehicle operator, a forwardly directed pipe connected



to said branch and having a valve, and means to connect the forward end of the pipe to the cooling system of the engine.

1,422,326. MACHINE FOR ASSEMBLING FRAME AND SPRING MEMBERS. CORBAN H. ZILES, Windsor, Ontario, Canada, assignor of one-half to Leggett & Platt Spring Bed Company, Limited, Windsor, Ontario, Canada, a Corporation of Ontario, Canada. Filed July 10, 1920. Serial No. 395,234. 14 Claims. (Cl. 29—87.1.)



1. A machine for attaching a frame member to one coil of each of a plurality of coiled springs by forming said frame member into engagement with said coils, said machine comprising means for supporting a frame member and a plurality of springs with said frame member extending adjacent that portion of the coils of the several springs to be secured thereto, means adjacent each spring for forming said frame member into engagement with the adjacent portion of the coil of each spring, and means for simultaneously operating said forming means.

1,422,327. PROCESS OF GASSING LIQUORS WITH SO_2. FRANK MORRISON ALLEN, Ridley Park, Pa., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,703. 3 Claims. (Cl. 23—1.)

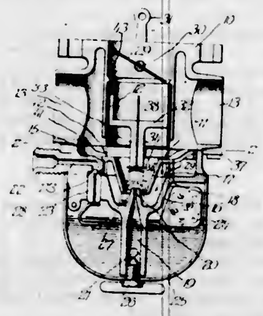
1. The process of gassing liquors with SO_2 which comprises introducing air under pressure not greatly above atmospheric pressure into a relatively small chamber containing molten sulfur and by controlling the velocity of the incoming air maintaining the temperature of the mixed gases moving from the chamber at approximately 550° F. and then introducing the mixed gases into a body of liquid, the dimensions of the chamber plus all air and gas conduits being such that the gases moving from the chamber are propelled with sufficient force to enable them to overcome the resistance of the liquor into which they are subsequently introduced.

1,422,328. MANUFACTURE OF GRAPE SUGAR. PAUL W. ALLEN, Cedar Rapids, Iowa, assignor, by mesne assignments, to Penick & Ford, Ltd., Incorporated, a Corporation of Delaware. Filed Feb. 17, 1919. Serial No. 277,579. 5 Claims. (Cl. 127—10.)



3. Improvement in the method of making grape sugar from starch which consists in subjecting a sugar liquor which is free from protein impurities at a temperature of about 145° Fahrenheit and at a density of about 42° Baumé, to a beating operation in the air, which gives the sugar a frothy, porous consistency, and then allowing it to stand until crystallization takes place.

1,422,329. CARBURETOR. FRED E. ASELTINE, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 2, 1916. Serial No. 75,641. 6 Claims. (Cl. 261—44.)

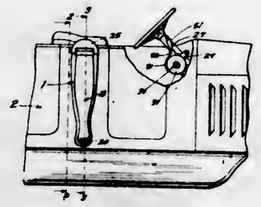


1. In a carburetor, the combination with a mixing chamber, a fuel nozzle arranged therein, said mixing chamber having primary and secondary air ports, means comprising a movable plate arranged in said chamber for directing a greater proportion of the total quantity of incoming primary air towards the sides of the chamber as said plate approaches said nozzle, and means movable with said plate for directing the flow of said incoming primary air towards said nozzle when said plate is in its position closest to said nozzle.

2. In a carburetor, the combination with a mixing chamber, a fuel nozzle arranged therein, a throttle, means for supplying primary air to said chamber including an upwardly flaring strangle tube the lower end of which surrounds and is spaced from said nozzle, means for supplying secondary air to said chamber including a vertically slidable air valve and a suction operated plate positioned in said strangle tube for lifting said valve, and means cooperative with said plate operating when the throttle is nearly closed for increasing the suction at the nozzle.

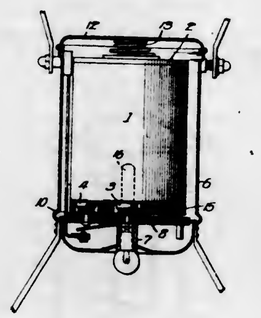
5. In a carburetor, the combination of a mixing chamber, a fuel nozzle arranged therein, said mixing chamber having primary and secondary air ports, a valve device for said secondary port, a tube arranged within said chamber tapering towards said nozzle, and provided with a deflector portion adjacent its lower end for directing the incoming primary air towards the center of said tube, a plate arranged within said tube and adapted to be actuated by the flow of air through the same, and means arranged on said plate and co-operating with said deflector portion for directing the incoming primary air towards said nozzle when said plate is in its position closest thereto.

1,422,330. DIRECTION INDICATOR FOR MOTOR VEHICLES. FRED M. ATHONS, Los Angeles, Calif. Filed June 2, 1920. Serial No. 386,010. 3 Claims. (Cl. 116—52.)



1. An indicator comprising a casing, bearings carried thereby, a shaft journaled in said bearings, a flexible spring connection between one of said bearings and said shaft, a semaphore having a support fixed on said shaft and a flexible connection secured to said shaft for rotating the same.

1,422,331. ADAPTER. FRANK T. BAIRD, Blue Island, Ill. Filed Jan. 13, 1921. Serial No. 436,944. 3 Claims. (Cl. 240—8.5.)



1. In a portable electric lantern, a lantern casing, a battery receptacle adapted to be inserted within it, fixed center contacts on the casing and on the receptacle, fixed outer contacts on the casing and receptacle, an insulating plate adapted to intervene between the casing and the receptacle, said plate having one hole at the center and another at the same distance from the center as the said fixed outer contacts, and double resilient contacts carried by said plate at said holes, one of each pair of resilient contacts pressing upward and the other downward for firmly engaging the respective fixed contacts when the parts are assembled.

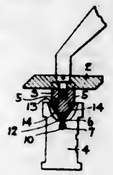
1,422,332. BELTING TOOL. ANTONIO G. BAVA, San Francisco, Calif. Filed June 10, 1920. Serial No. 387,976. 7 Claims. (Cl. 1—50.)



1. A belt stapling device comprising a fixed jaw with transverse belt receiving grooves, a clamping jaw pivotally connected to the fixed jaw and having portions engage-

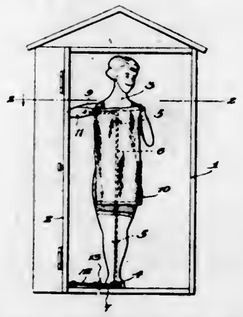
able with the belt ends disposed within the grooves, and a pressure lever fulcrumed near the first named pivot and movable to force a staple through the ends of a belt placed in one of said grooves.

1,422,333. MATRIX AND DISTRIBUTING APPARATUS FOR TYPE-CASTING MACHINES. ADOLPH BECKER, Wheeling, W. Va. Filed Apr. 23, 1921. Serial No. 463,867. 10 Claims. (Cl. 199—37.)



1. In a type-casting machine, the combination with a set of matrices each having a V-shaped notch, and having an opening adjacent to the said notch and communicating therewith by a restricted channel, of a transfer member having a beaded strip adapted to enter the said openings and to suspend the said matrices during transfer without engaging the sides of said V-notches.

1,422,334. TOY. STEPHEN S. K. BIROSCAK, Bridgeport, Conn. Filed Apr. 25, 1921. Serial No. 464,118. 3 Claims. (Cl. 46—40.)

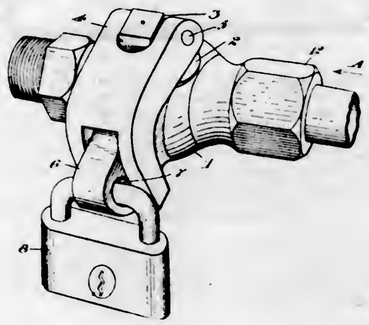


1. A toy comprising a housing having a door hinged for opening movement, a figure fixed to the floor of the housing and provided on its back with a vertical bearing, a shaft journaled in the bearing and having its lower end extended forwardly and secured to the free edge portion of the door and its upper end curved about one side of the figure and terminating in advance thereof, a body member of the figure free thereof, a member secured to the free end of the curved arm and to the opposite side of the body for being draped across the figure by movement of the curved arm upon opening the door.

1,422,335. METHOD OF MAKING CHLOROSULPHONIC ACID. THOMAS LYNTON BRIGGS, deceased, late of Flushing, N. Y., by Isabelle M. Briggs, executrix, Flushing, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Oct. 4, 1921. Serial No. 505,361. 8 Claims. (Cl. 23—1.)

1. Method of making chlorosulphonic acid which consists in separately conducting controlled volumes of contact gas and of dry hydrochloric acid gas to a mixing chamber and causing the said gases to become mixed therein, conducting the resulting chlorosulphonic acid vapors, together with accompanying fluids and gases, all in the same direction through a long passage of restricted diameter and withdrawing the accumulating liquid chlorosulphonic acid to storage.

1,422,336. VALVE LOCK. JACK CATHRILL, Los Angeles, Calif. Filed Aug. 11, 1919. Serial No. 316,914. 1 Claim. (Cl. 70—125.)

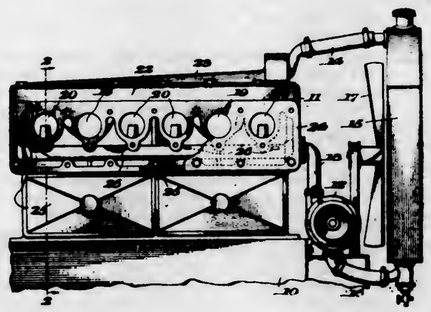


In a valve, a valve casing, a keeper lug on said casing, a rotary valve in the casing projecting from the side thereof at right angles to its length, an arm pivoted on said valve having a forked outer end adapted to extend astride a portion of the valve casing when the valve is in its open position and to extend astride the keeper lug when valve is in its closed position, and means for locking said arm on the keeper lug.

1,422,337. OXYSALT COMPOSITION. CHARLES CATLETT, Staunton, Va. Filed Aug. 3, 1921. Serial No. 489,608. 9 Claims. (Cl. 106—29.)

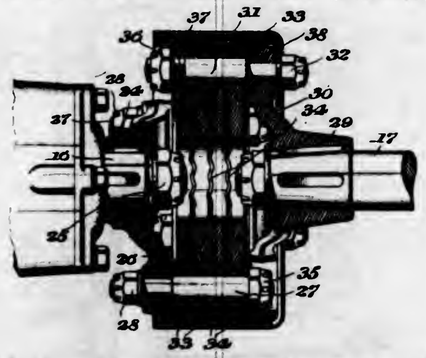
1. The process of preparing an oxychlorid composition of the character described which comprises commingling solid lime and solid calcium chlorid, both in finely divided form, under reacting conditions.

1,422,338. HYDROCARBON MOTOR. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 27, 1918. Serial No. 231,124. 8 Claims. (Cl. 123—177.)



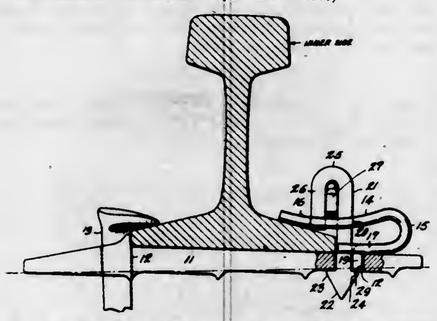
1. In a hydrocarbon motor, the combination with a jacketed cylinder having an exhaust valve seat, of means for feeding water to the interior of the cylinder jacket directly to a point between the cylinder wall and said seat and withdrawing it from the opposite side of said seat.

1,422,339. SHAFT COUPLING. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 2, 1919. Serial No. 269,303. 6 Claims. (Cl. 64—96.)



6. A coupling comprising shafts each having radial arms, bolts on said arms extending lengthwise of the shafts, the bolts of one shaft overlapping the bolts of the other shaft, coupling parts carried by said bolts, means for securing said parts on said bolts, a shield carried by one shaft and extending around said bolts, and means independent of the first mentioned securing means for securing said shield to said shaft.

1,422,340. ANCHOR AND CLIP FOR RAILS AND THE LIKE. FRANCIS W. COOPER and HENRY STEADWORTHY, Montreal, Quebec, Canada. Filed Dec. 1, 1921. Serial No. 519,201. 21 Claims. (Cl. 238—349.)



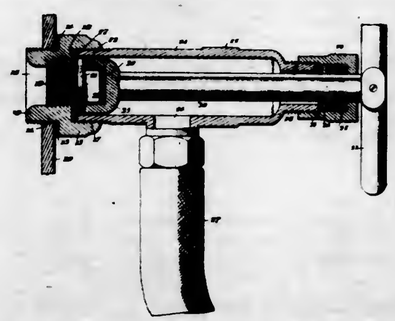
1. A device of the class described, comprising a member hooked at both ends to engage at one end under a plate and at the other end to overlie a rail base, and means to hold said hook member in position.

1,422,341. PHOTOGRAPHIC FILM RACK. GUY C. CROSS, Denver, Colo. Original application filed Jan. 8, 1920, Serial No. 350,201. Divided and this application filed Sept. 21, 1920. Serial No. 411,699. 3 Claims. (Cl. 95—100.)



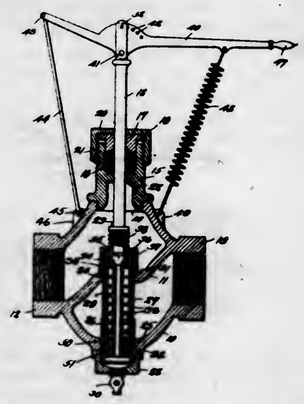
1. As a new article of manufacture, a film rack comprising a U-shaped frame, a clamping bar having guides carried by its ends for slidably engaging the side bars of the frame, said side bars terminating in horizontal arms, as and for the purpose set forth.

1,422,342. BUNG FOR TANK FILLING AND DISCHARGE FITTINGS. JOSEPH DARLING and WARREN W. CURRY, Chicora, Pa. Filed Dec. 2, 1919. Serial No. 341,944. 1 Claim. (Cl. 220—39.)



A bung comprising a bushing having an externally threaded reduced inner end adapted to extend through bung hole of the container, said reduced and threaded portion defining an annular shoulder adapted to be seated against the outer face of the container in fluid tight relation, said inner end also having a threaded central bore, the outer end of the bushing expanded and having an enlarged internally threaded counter bore defining an annular shoulder at its inner end, a packing ring seated on this shoulder, a plug having a wrench head at its outer end and the inner end threaded to be seated in the first mentioned bore of the bushing, an annular collar extending laterally from said plug intermediate its threaded portion and the wrench head, said collar adapted to be seated on said packing ring, the diameter of said collar being sufficiently less than the diameter of the counter bore to permit passage of the threaded end of a nozzle to be screwed into the counter bore past the collar and against the aforesaid packing ring.

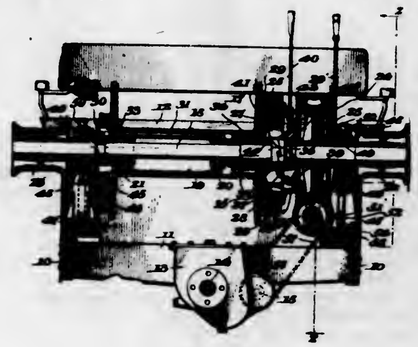
1,422,343. PISTON GLOBE VALVE. ELMER C. DAVIES, Portland, Oreg. Filed Feb. 19, 1920. Serial No. 359,784. 7 Claims. (Cl. 277—37.)



5. A valve comprising a body having an inlet and an outlet, a web extending between the inlet and outlet, a

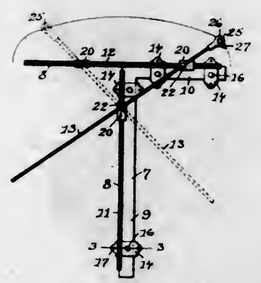
cage having longitudinal openings and seated at one end in the web and at its other end in the body, a piston slidable within the cage and having openings for communication with the openings in the cage, said piston being hollow, means at one end of the piston and cooperating with one end of the cage for normally preventing flow of fluid under pressure through the piston, said piston having a longitudinal passage extending therethrough spaced from the wall of the piston, and a yieldingly held valve normally closing said passage at one end.

1,422,344. MOTOR-VEHICLE HOIST DEVICE. FRANK H. DAWBY, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 15, 1918. Serial No. 228,641. 8 Claims. (Cl. 74—36.)



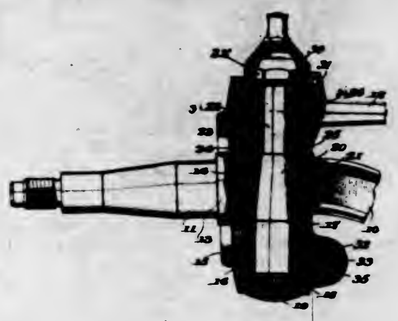
1. In a motor vehicle, the combination with the frame comprising side members, and a driving shaft supported by the frame, of a pair of uprights supported on said side members, a hoisting device comprising a shaft and drum, spherical bearings for said shaft in said uprights, gearing having a casing supported by said shaft and loosely connected to one of said uprights to prevent rotation of the casing, and a driving connection from said driving shaft to said gearing.

1,422,345. TRAMMEL. WILLIAM DOUGLAS, Pawtucket, R. I. Filed Mar. 7, 1921. Serial No. 450,132. 5 Claims. (Cl. 33—31.)



1. The combination with a square, of a trammel having a guide bar on one arm of the square, a guide bar on the other arm of the square, a slide on each guide bar, a traverse bar and means for adjustably securing the traverse bar to the slides.

1,422,346. MOTOR VEHICLE. FRANK J. DRUAR, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 10, 1919. Serial No. 275,940. 12 Claims. (Cl. 280—96.1.)



1. In a steering knuckle, the combination with a knuckle member comprising an axle and a pivot pin, of a second knuckle member comprising a wheel spindle having a section formed with an interiorly curved seat, a separately formed pivot bearing section surrounding said pivot pin and having and exteriorly curved surface fitting said seat, and laterally extending means detachably securing said bearing section in place.

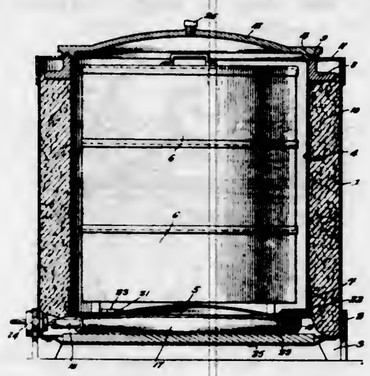
1,422,347. CIGARETTE HOLDER. THOMAS DUNCAN, East Chicago, Ind. Filed Jan. 3, 1920. Serial No. 349,143. 2 Claims. (Cl. 131—51.)



2. A cigarette holder comprised solely of a length of metal formed with a split ring and a pair of flat elongated straight cigarette gripping jaws, the inner portions of said straight flat jaws being formed with quarter twists whereby the axis of the cigarette between the jaws is at right angles to the axis of the split ring and whereby the spreading of the jaws is accompanied by a lateral movement of the ends of the split ring with relation to each other, the outer surfaces of said jaws being roughened.

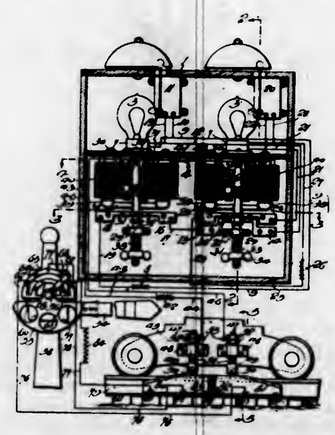
1,422,348. ELECTRIC STEAM-PRESSURE COOKER. WAYNE A. DUNCAN, Chicago, Ill. Filed Mar. 14, 1922. Serial No. 543,757. 5 Claims. (Cl. 219—35.)

1. In an electric steam pressure cooker, the combination with an insulated heat retaining receptacle, of a water circulating unit, an electric heater for converting said water into steam, means for permitting the escape



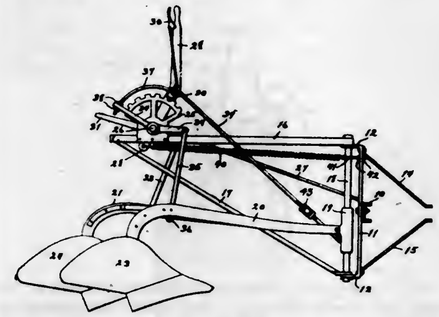
of the steam from the water circulating unit into the receptacle, and a steam tight closure for said receptacle.

1,422,349. SIGNAL-INDICATOR SYSTEM. HARRY C. EIGABROADT, Amsterdam, N. Y. Filed Oct. 3, 1921. Serial No. 505,064. 10 Claims. (Cl. 246—69.)



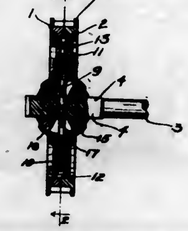
5. A safety device comprising an electrically operated indicator, a second electrically operated indicator, an energizing circuit for the first indicator including a normally open switch element, an energizing circuit for the second indicator including a normally open switch and spaced contacts adjacent the switch of the first circuit and bridged thereby when the switch of the first circuit is open, electrically operated switch closing means including an energizing circuit having spaced contacts for engaging spaced contacts of a completing circuit including a switch operated from a semaphore and conductors leading therefrom to the last mentioned contacts, a resistance positioned in one of the conductors, and spring means yieldably holding the switches of the indicator energizing circuits open, the spring means for the switch bridging the spaced contacts of the second indicator circuit having sufficient strength to prevent movement of the switch out of bridging engagement with the spaced contacts when current is passing through the resistance.

1,422,350. TRACTOR PLOW. LAWRENCE EMERSON, Percy, Iowa. Filed Feb. 7, 1921. Serial No. 443,014. 3 Claims. (Cl. 97—60.)



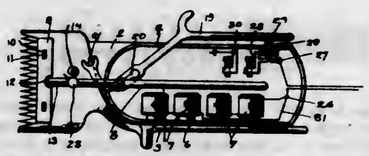
1. A tractor plow, comprising a frame member, a vertical spindle carried thereby, a member slidably mounted on said spindle, a plow beam secured at its forward end to said sliding member, a support extending rearwardly from said frame member above said plow beam, a lever fulcrumed between its ends on said support, a link pivotally connected at one end to said lever and having a sliding pivotal connection at its opposite end to the rear portion of said plow beam, and a link pivotally connecting said lever to the forward end of said plow beam, the last named link being adjustable as to length.

1,422,351. GEAR WHEEL. JOHN L. FLORIN, Davenport, Wash. Filed Apr. 21, 1921. Serial No. 463,249. 2 Claims. (Cl. 74—7.)



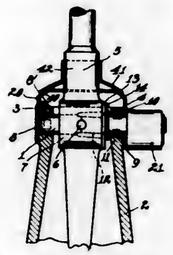
1. The combination with a shaft having a squared end with diametrically arranged grooves therein and a spherical hub on the shaft having complementary slots forming V-shape cavities with the grooves, of a wheel mounted on the hub, and radiating pins carried by said wheel having their inner ends located in said cavities.

1,422,352. HAIR CLIPPER. NICHITU V. GHETIA, Cleveland, Ohio. Filed June 22, 1921. Serial No. 479,602. 8 Claims. (Cl. 30—1.)



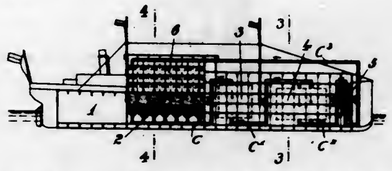
7. A clipper comprising relatively movable cutter plates, normally inoperative power operated means for producing relative movement of the plates, and a manually operated lever shiftable for operative connection with the plates or for rendering said power operated means operative.

1,422,353. GEAR-SHIFT LOCK. GEORGE B. M. GRAY, Oakland, Calif. Filed Sept. 25, 1920. Serial No. 412,761. 2 Claims. (Cl. 70—128.)



2. In combination, a standard, a shaft journaled in the upper end of said standard, a gear shift lever secured on said shaft, a lock mounted on the outer end of said shaft, said shaft having a bore and openings communicating with said bore, a cam in said bore actuated by said lock, means actuated by said cam to lock the lever in neutral position, said shaft being provided with openings communicating with said bore, a sleeve fitting on said shaft in said lever and secured to said lever, a flange on the end of said sleeve engaging the outside of said lever, said sleeve being provided with depressions registering with said openings in said shaft, and balls resting in said openings out of said depressions adapted to be forced outwardly by said cam partly into said depressions and partly in said openings when the cam is actuated by the lock to cause said locking means to lock the lever in neutral position.

1,422,354. SHIP FOR TRANSPORTING RAW PRODUCTS. HUGO GREFFENIUS, Frankfort on the Main, Germany. Filed June 6, 1919. Serial No. 302,369. 3 Claims. (Cl. 114—73.)



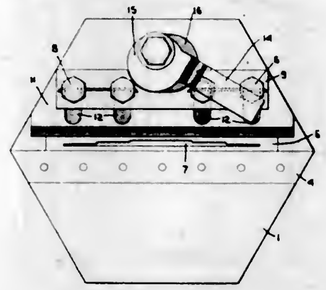
1. A ship adapted for the transportation of grain and the like having thereon facilities for storing the grain, a mill for grinding the grain during the transportation thereof, means for conveying the grain to the mill from the storage place, and means for storing the main and by-products resulting from the milling of the grain.

1,422,355. HANDLE. ROGER W. GRISWOLD, Erie, Pa., assignor to The Griswold Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Mar. 17, 1922. Serial No. 544,584. 6 Claims. (Cl. 16—120.)



1. In a handle, the combination of a shank; an eye bolt screwed into the shank; a handle of coiled wire arranged around the eye bolt; and a seat for the outer end of the coil having a spiral surface conforming to the last coil of the wire with a shoulder abutting the end of the coil, the outer face of the seat having a socket locking with the eye, the eye bolt being screwed into the shank to place and hold the coil under tension, the seat locking the coil against turning on the bolt.

1,422,356. EXTRUDING MACHINE. JACOB E. HELLER, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 3, 1920. Serial No. 349,311. 10 Claims. (Cl. 18—12.)



1. In an extruding machine, a die head, a plate having a die opening therein, a locking device over the plate and a lever to move the locking device off the plate.

1,422,357. SOLDERING IRON. HARRY F. HAMMOND, South Shaftsbury, Vt., assignor of one-half to John Alfred Davis, Dover, Vt. Filed Jan. 21, 1921. Serial No. 438,963. 2 Claims. (Cl. 113—105.)

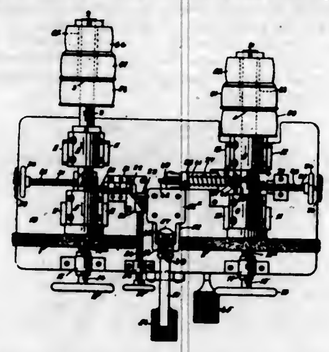


1. A device of the character stated, comprising a soldering iron, a shank pivotally connected to the soldering iron, a spring pressed sleeve on the shank, and a head on the sleeve having a flat outer surface adapted to engage the end of the iron and support the same in alignment with the shank, and said head having notches in its outer face adapted to receive the corners of the iron and support the iron at an angle to the shank.

1,422,358. CUTLERY-POLISHING MACHINE. CARL H. HEMMING, New Haven, Conn. Filed Jan. 10, 1920. Serial No. 350,556. 7 Claims. (Cl. 51—80.)

1. A machine of the character described, comprising opposed abrasion wheels, rotatable shafts therefor journaled in standards mounted on rocker-shafts, and wheel tension springs adapted to normally force the wheels toward their central polishing position, means for normally holding one of said wheels in such central position,

a spring of greater tension than the wheel tension springs adapted to force the other of said wheels into open posi-



tion, and means adapted to temporarily release the greater tension spring and place said open positioned wheel under its wheel tension spring.

1,422,359. AIR AND WATER SERVICE HOSE LOCKER. CHARLES E. HILL, San Bernardino, Calif. Filed Nov. 26, 1921. Serial No. 517,960. 2 Claims. (Cl. 299—77.)



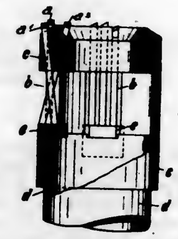
1. A hose locker comprising a casing, fluid distributing pipes within the casing including rigid sections and flexible sections, pulleys within the casing about which said flexible sections are trained, certain of said pulleys being bodily movable to permit of the untraining and retraining of the flexible sections, weighted tables for supporting the movable pulleys, and rollers carried by the tables and movable over said rigid sections for defining the movement of the tables within the casing.

1,422,360. PULLEY ADAPTER. GEORGE W. HUGHES, West Philadelphia, Pa. Filed Aug. 11, 1921. Serial No. 491,494. 2 Claims. (Cl. 64—17.)



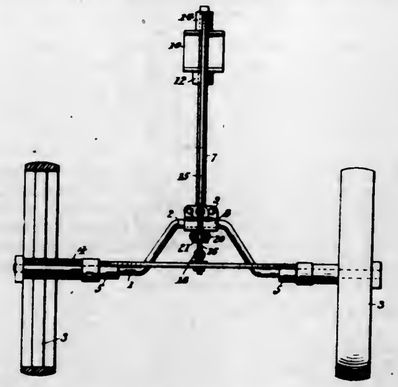
1. An adapter of the class described, comprising a split ring having its edges rolled to provide beads which project both inwardly and outwardly from said ring, the inner portions of said beads being adapted to contact with a transversely curved pulley, while the other portions of said beads constitute belt retaining means, and means for contracting said ring around the pulley.

1,422,361. TUBULAR ROCK DRILL. HANS HUNDRIESER, Halensee, near Berlin, Germany. Filed Jan. 19, 1921. Serial No. 438,507. 3 Claims. (Cl. 255—72.)



1. In a tubular rock core drill, the combination of a drill shaft, a crown sliding thereon, recesses in said crown, supports adapted to be arranged in said recesses and to be carried by said drill shaft, and cutters arranged in the crown and adapted to rest on said supports.

1,422,362. DISK TRUCK. EDWARD E. JOHANNES and RICHARD D. DUNKERTON, Devon, Kans. Filed Nov. 14, 1921. Serial No. 515,065. 1 Claim. (Cl. 280—83.)

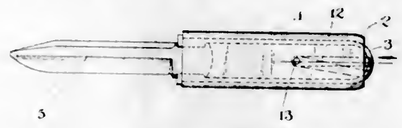


A disk truck comprising an axle having a crank portion, a standard having universal connection with said crank portion of the shaft at the lower end of said standard, an arcuate member connected at its end portions with said shaft on opposite sides of the crank portion of the latter, said arcuate member being extended forwardly, an inclined member having a rearwardly turned end mounted on the upper portion of said standard, said standard being adapted to support a draft element carried by an agricultural implement, means adjustable on said standard, said draft element being limited in its downward movement on said standard by the last mentioned means, a forward draft element adjustably mounted on said inclined member, means for pivotally connecting the lower end of said inclined member with said arcuate member and ground wheels carried by said axle.

1,422,363. POCKETKNIFE. JONAS JOHNSON, Ramsay, Mich. Filed Mar. 24, 1920. Serial No. 368,287. 5 Claims. (Cl. 30—10.)

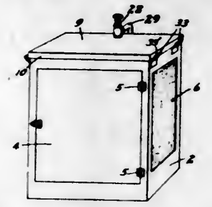
1. A device of the character specified comprising a yoke or substantially U-shaped member and interchangeable

tools, each having at one end a shank whose opposite side edges are beveled, the yoke comprising a bight portion and arms diverging therefrom, and each arm having on its inner face at its free end a groove for engaging the adjacent beveled edge of the shank, the shank of the tool having outwardly extending pins intermediate the ends of the beveled edges, and the grooved ends of the yoke arms having alined openings for engagement by said pins,



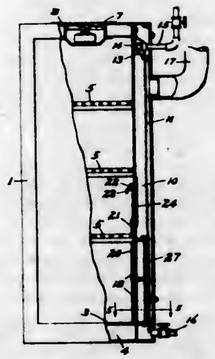
means for clamping the yoke arms on the shank, said means comprising a flattened tubular sheath into which the bight end of the yoke is adapted to pass, the free ends of the yoke arms having oppositely extending lateral lugs to engage the end of the sheath to firmly clamp the grooved ends of the arms on the shank, and releasable means for locking the yoke in the sheath and to permit its withdrawal.

1,422,364. ICELESS REFRIGERATOR. CHARLES L. KIK, Los Angeles, Calif. Filed May 20, 1920. Serial No. 382,773. 3 Claims. (Cl. 45—133.)



3. In an iceless refrigerator, a sheet metal wall having an opening, the metal at the sides of the opening being bent upon itself and thence laterally and thence reversely to form guide ways, a framed screen inserted downwardly into the guide ways to cover the opening, and hooks extending upwardly from the screen and over the edge of the wall so as to support the screen.

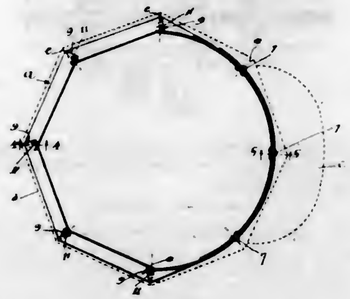
1,422,365. ICELESS REFRIGERATOR. CHARLES L. KIK, Los Angeles, Calif. Filed Feb. 21, 1921. Serial No. 446,920. 6 Claims. (Cl. 45—133.)



2. A refrigerator including a chamber, means for supporting a porous saturated member in said chamber, said means comprising a clip havng slide portions forming a longitudinal slot, the end of said porous member fastened in said slot, and means for detachably supporting said clip in the upper part of said chamber.

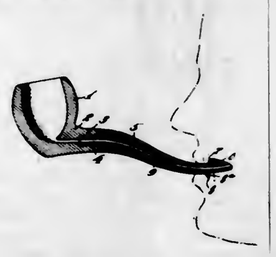
4. A refrigerator including a container, a water supply pipe on the outside of said container, perforations in said pipe, a porous member passed over said perforations and alongside said container.

1,422,366. CAP SHAPER. OSWALD C. LEGER, Los Angeles, Calif. Filed Nov. 21, 1921. Serial No. 516,719. 2 Claims. (Cl. 2—106.)



1. In a cap shaper, a band constructed from a straight strip of resilient material bent into a circle and having its ends secured to each other, one margin of the strip being provided with slits, and the material being lapped at the slits and the lapped portions being fastened together.

1,422,367. PIPE. HERMAN N. MATSEN, Cleveland Heights, Ohio. Filed Apr. 3, 1920. Serial No. 370,976. 2 Claims. (Cl. 131—12.)

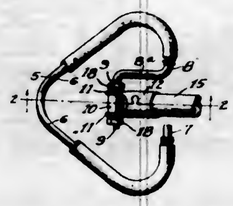


2. A pipe comprising a bowl, a stem and a mouthpiece having a continuous smoke passageway, extending upwardly from the mouthpiece to the bowl, said mouthpiece having an upper shoulder and a lower shoulder arranged close to the upper shoulder whereby the upper teeth of a smoker will hook against the front of the upper shoulder and the lower teeth will naturally bear against the rear of the lower shoulder to cause the pipe bowl to be elevated naturally by the closing of the teeth against said mouthpiece.

1,422,368. MOP FRAME AND HANDLE COUPLING. JACOB A. MEINHARDT, Chicago, Ill. Original application filed June 13, 1921, Serial No. 477,268. Divided and this application filed Dec. 19, 1921. Serial No. 523,852. 2 Claims. (Cl. 15—147.)

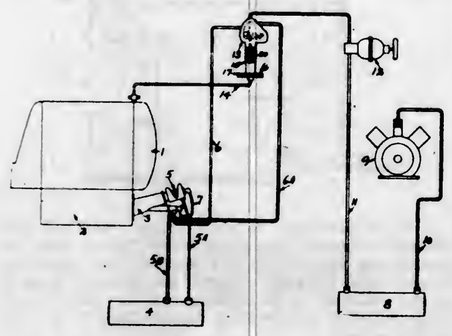
1. In a device of the class described, the combination with a screw-threaded shaft, of a socket member for a handle having at one of its ends a pair of spaced prongs

provided with apertures for said shaft, a sleeve located between said prongs around the shaft, a washer located on the outer side of each of said prongs around the shaft and against rotation thereon, a split spring washer located



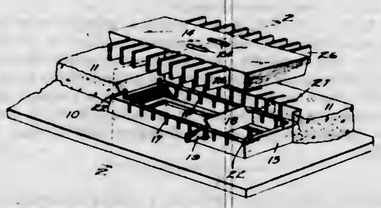
around the shaft against the outer surface of each of the first named washers, and nuts engaging said shaft and located against the outer side of each of said spring washers.

1,422,369. CONTROLLING DEVICE FOR BOILER FURNACES. ROBERT F. METCALFE, Erie, Pa. Filed July 25, 1919. Serial No. 313,419. 7 Claims. (Cl. 158—36.)



1. In a controlling device for boiler furnaces, the combination of a boiler; a burner leading to said boiler; means for supplying air to said burner; and a controlling device for the air comprising a valve chest having a valve face therein with a series of controlling passages through the face; a valve mounted to slidingly operate over said face and to successively operate on said openings; a pressure device controlled by boiler pressure; and means actuated by the pressure device to actuate said valve.

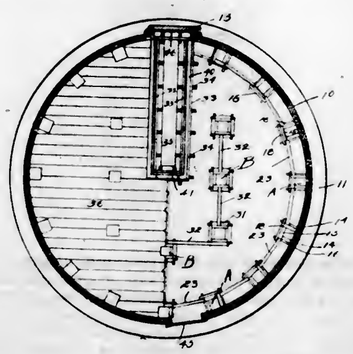
1,422,370. CORE FOR MAKING VENTILATED BLOCKS. EDWIN L. PAGE, Kingsley, Iowa. Filed May 11, 1921. Serial No. 468,473. 2 Claims. (Cl. 25—121.)



2. A two part core for the making of a ventilated building block, including an upper and a lower core member, said lower core member being hollow and having registering notches in its side for receiving the ends of said

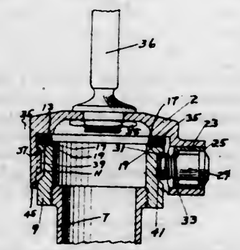
blades and adapted to have a portion of the blades received between the sides of said lower core member and projected upwardly therefrom, the ends of the blades being extended outwardly from the sides of said lower core member, the upper core member being designed to extend over a portion of the blades, the ends of the blades being designed to rest in a vertical plane so that the block material may be tamped without interfering with the blades.

1,422,371. VENTILATED-CORNCRIB-FLOOR MOLD. EDWIN L. PAGE, Kingsley, Iowa. Filed June 7, 1921. Serial No. 475,597. 4 Claims. (Cl. 25—118.)



1. A form for building a single unit concrete floor structure within the cutline of a circular wall above the ground, said form comprising a plurality of knock-down pier molds having one of their sides open and arranged with their open side against the circular wall, combined brace and false floor supporting members arranged between and supported on said pier molds for retaining the pier molds in position relative to each other, a false floor structure supported by said combined brace and false floor supporting members, said false floor having openings therein arranged to register with the pier molds permitting the pouring of the concrete as a single unit as specified.

1,422,372. LOCKING CAP FOR AUTOMOBILE RADIATORS. HARVEY S. PARDEE, Chicago, Ill., assignor to Miller & Pardee, Inc., Chicago, Ill., a Corporation of Illinois. Filed Apr. 25, 1921. Serial No. 464,324. 6 Claims. (Cl. 70—90.)



1. In apparatus of the class described, in combination, a cap, a lock in the cap, comprising a bolt, an annular member on which the cap fits, means rotatably mounted upon the annular member, a compressible gasket positioned between said means and said cap, whereby the rotation of the cap upon the annular member rotates simply the gasket and said means, the movement of the bolt into

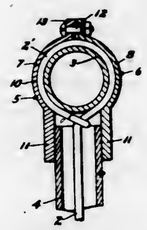
locking position serving to secure the cap against removal from the annular member and also compressing the gasket to form a tight joint between the cap and the annular member.

1,422,373. SILENCER. WALTER T. PEARCY, New Albany, Ind. Filed Nov. 21, 1921. Serial No. 516,655. 3 Claims. (Cl. 123—90.)



1. In a device of the kind described, a body portion arranged to engage the tappet lock of an automobile and provided with a pair of legs extending downward behind said tappet lock and having resilient arcuately bowed portions intermediate their extremities adapted to bear against the tappet guide shoulders of a crank case.

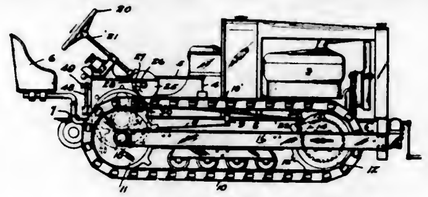
1,422,374. CONDUIT COUPLING. JOSEPH F. RAMBO, Pomona, Calif., assignor of one-half to Robert Andrew Schmitt, San Diego, Calif. Filed Apr. 29, 1920. Serial No. 377,518. 3 Claims. (Cl. 247—1.)



1. The combination with an electrical conduit pipe inclosing a ground wire, of means for connecting said conduit in contiguous and fixed relation to a grounding pipe; said means comprising a sectional coupling attachable to the said conduit and the said pipe and having fastening devices for securing the parts assembled; the sections having interior seats to receive the ground conductor.

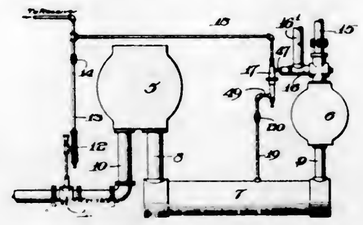
1,422,375. TRACTOR. HENRY CLAY REID, San Francisco, Calif., assignor to Pacific Fire Extinguisher Company, San Francisco, Calif., a Corporation of California. Filed June 1, 1920. Serial No. 385,513. 1 Claim. (Cl. 180—17.)

A tractor having side, traction belts and idler sprockets therefor; means for driving the belts, brakes for the belts and operative on said sprockets, and a device for steering the tractor comprising means for holding the driving means concurrently applied to each belt and releasing the brakes at that time, or for setting the



brake and releasing the drive of one belt and conversely acting on the other, said means having reversely acting connections to the drive means.

1,422,376. MULTISTAGE UNLOADER. GEORGE M. RICHARDS, Philadelphia, Pa. Filed July 3, 1918. Serial No. 243,140. 16 Claims. (Cl. 230—24.)



1. In a multi-stage unloader system, high and low pressure cylinders and an intercooler between them, in combination with a separate unloader and associated trigger valve for each cylinder, one unloader being a pressure unloader in the discharge pipe and which is initially unloaded, and common pressure supply for each trigger valve.

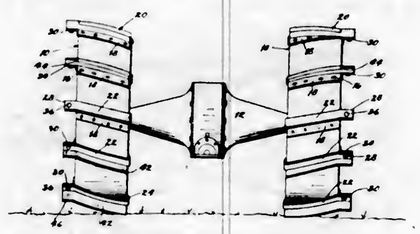
7. In a multi-stage system unloader, high and low pressure cylinders and an intercooler between them, in combination with an unloader and trigger valve for the low pressure cylinder, an unloader for the high pressure cylinder, a receiver connected with the high pressure cylinder, a trigger valve for the high pressure cylinder unloader, connections from the receiver to the trigger valve to operate the unloader with operation of the trigger valve, a diaphragm in the trigger valve, a valve controlled by the diaphragm to close discharge from the unloader and admit receiver pressure therein when the diaphragm moves, the one surface of the diaphragm being open to atmospheric pressure, a spring pressing against the diaphragm and fluid connections between the diaphragm and the intercooler to cause the atmospheric pressure to move the diaphragm when the intercooler falls ao a predetermined point.

15. In an unloader trigger valve, a trigger valve body having openings for connection with the receiver pressure and with the unloader, a double valve controlling the passage of receiver pressure to the unloader and open to the atmosphere at an intermediate point, a pressure-operated member adapted normally to hold the valve closed and a hand operated device engaging and moving the member.

1,422,377. TRACTOR CLEAT. CURTISS ROBNETT, Columbia, Mo. Filed Nov. 19, 1920. Serial No. 425,148. 5 Claims. (Cl. 301—44.)

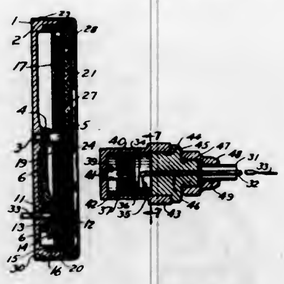
4. An auxiliary cleat for tractors comprising a base plate, a traction plate formed along one longitudinal edge of said base plate, an anchoring flange formed along one

longitudinal edge of said traction plate and adapted to overhang and contact with the main cleat of a traction wheel, and hooks carried by the ends of said base plate, one of said hooks being detachable.



5. An auxiliary cleat for tractors comprising a base plate, a traction plate carried by said base plate, one end portion of said base plate and said traction plate being extended angularly and adapted to extend over the side of a tractor wheel, a hook detachably connected to the extended portion of said base plate, and a second hook connected to the other end portion of said base plate.

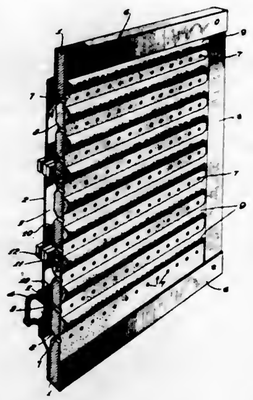
1,422,378. RADIOMETER. MICHAEL W. RYAN and MICHAEL UTTENDORFER, Seattle, Wash. Filed Nov. 9, 1921. Serial No. 513,991. 4 Claims. (Cl. 73—52.)



1. A device of the class described embodying a plug, a small plug inside of it, a coil spring similar to a watch spring made of thermostatic metal mounted in a slot in the small plug, a projection on the outer end of the spring, having a slot in it, a lever on the end of a wire projecting through the slot, a nut in the plug forming a bearing for the wire, a cap on the nut, a flexible tube held in the end of the cap, a cylindrical shaped casing, having a hole in its lower side, a flat bar projecting through the hole, a wire connecting this flat bar to the lever which projects through the slot in the projection on the spring, a gear segment mounted over the hole in the casing, having a slot in its end through which the flat bar also projects, a small pinion mounted on a pin in the casing meshing with the gear segment, a hub on the side of the small gear, a disc on top of these gears through which the hub projects, a spacing ring on which the disc rests, a pointer on the end of the hub outside of the disc, another spacing ring outside of the disc, another disc outside of the pointer, a glass disc on top of this one and a cap on the outside which may be sprung over a ridge on the casing.

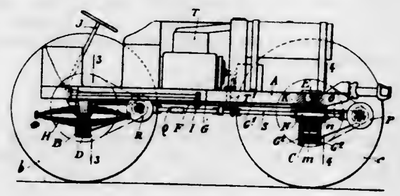
1,422,379. HEATING ELEMENT. MAX SCHEY, Brooklyn, N. Y. Filed Aug. 20, 1921. Serial No. 496,263. 7 Claims. (Cl. 126—41.)

1. A heating element for broilers embodying a rigid, noninflammable and nonmetallic plate provided with flat faces and having parallel rows of perforations all of which perforations are of substantially the same size and through which gas is adapted to pass, and parallel ribs of hardened plastic mineral earth molded directly on to one face of the plate and positioned between successive



rows of perforations, whereby gas issuing from the perforations is adapted to burn between the ribs and heat said ribs to a high temperature, so that the heat taken up by the ribs may be radiated.

1,422,380. TRACTOR HAVING FOUR STEERING DRIVING WHEELS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Oct. 29, 1920. Serial No. 420,526. 3 Claims. (Cl. 180—50.)



1. A tractor comprising a chassis provided with a fixed depending vertical pivot at one end and a vertical bearing at the opposite end, axles connected with the respective ends of said chassis for movement about the axes of said vertical depending pin and the vertical bearing, said axles being provided with driving wheels, steering means for said driving wheels comprising a steering member mounted on the chassis and steering sectors connected with the steering member and said axles, one of said sectors having a pivot pin journaled in said vertical bearing, and a horizontal pivot pin connecting one of said axles with said sector below the vertical pin thereof to provide for independent swinging movement of the axle transversely of said chassis.

1,422,381. DEVICE FOR INSERTING RIVETS. JOHANN SCHUETTE, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y., a Corporation of Maryland. Original application filed Apr. 25, 1919, Serial No. 292,767. Divided and this application filed Feb. 20, 1922. Serial No. 537,665. 8 Claims. (Cl. 78—51.)

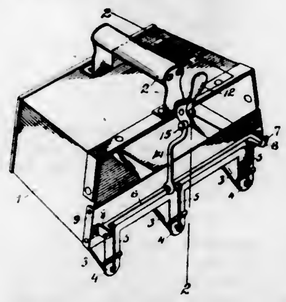
1. In a portable tool for inserting rivets, adapted to be manually inserted within the article being riveted, rivet

positioning means, rivet supporting and inserting means, means for holding the rivet on said supporting and inserting means, means for adjusting said holding means to



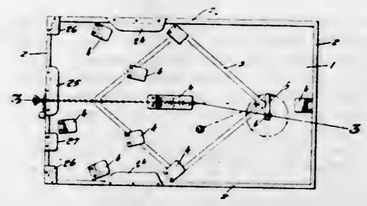
register the rivet with the hole in which is to be inserted and means for moving the rivet supporting and inserting means to insert the rivet in said hole.

1,422,382. BATTER PITCHER. ADOLF J. SCHULTZ, Kansas City, Mo. Filed Apr. 25, 1921. Serial No. 464,174. 5 Claims. (Cl. 107—52.)



1. In a batter pitcher comprising a receptacle having a handle, a plurality of delivery spouts located at the upper end of said receptacle, and closures for said spouts, and means for simultaneously opening and closing said closures, substantially as set forth.

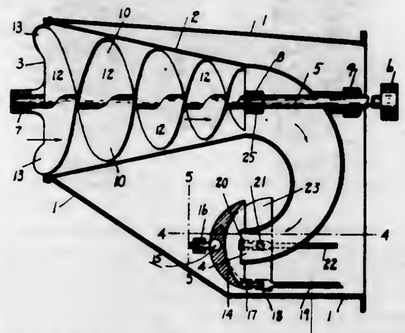
1,422,383. GAME DEVICE. HENRY J. SCHUMACHER and FRANK RICH, Meadville, Pa., assignors of one-third to S. D. Peterson, New Castle, Pa. Filed Jan. 28, 1921. Serial No. 440,579. 9 Claims. (Cl. 46—61.)



1. In a game device, the combination of a mechanically actuated batting means; means for delivering a ball to the batting means; and a chance device cooperating with one of said means varying the operative relation of the batting means and the delivery means to vary the action of the bat on the ball.

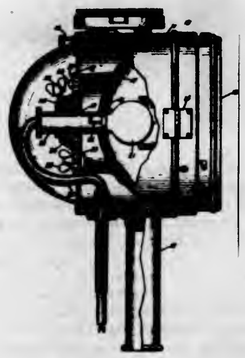
1,422,384. POWER PROPULSION DEVICE. MAHLON CLAUDE SOUTH, Cincinnati, Ohio, assignor of one-third to Cassius M. Garrison, Cincinnati, Ohio. Filed Sept. 6, 1921. Serial No. 498,781. 2 Claims. (Cl. 244—18.)

2. In a device of the character described, an element for the intake and outlet of air, means for drawing in said air, said element being wide at its mouth and contracted at its outlet so that the air therein will be compressed, a cup-shaped disc supported near the air outlet and mounted on a universal joint, the air at the outlet forced to impinge against said disc with great velocity and density, the guiding or steering rods of an aeroplane, each con-



nected at one of their ends by a movable joint to said disc, enabling the operator to tilt said disc so that the same will assume various positions to enable a greater or less amount of air to pass out at a given point or points between said disc and the outlet of said air intake element, to guide the machine in its course.

1,422,385. FOCUSING MECHANISM FOR PROJECTORS. SVEN STALBERG, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 20, 1920. Serial No. 425,490. 2 Claims. (Cl. 240—44.)

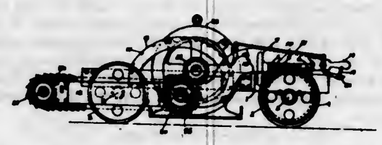


1. An adjusting mechanism for lamps and the like comprising a supporting wall having an opening, a lamp socket member loosely extending through said opening, clamping members having longitudinal slots slidably and pivotally connected to said wall and arranged to support said socket member and permit its axial and lateral adjustment in any direction parallel to itself, and means for securing said socket member in any adjusted position.

1,422,386. APPARATUS FOR SAWING NATURAL DEPOSITS. EDWARD B. STARR and HOWARD E. MARSH, Lompoc, Calif. Filed Feb. 26, 1920. Serial No. 361,377. 3 Claims. (Cl. 262—28.)

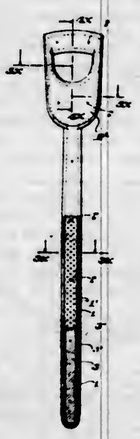
3. In an apparatus for sawing natural deposits a supporting means, a cutter bar pivotally mounted on said supporting means and having a rearward extension on the

opposite side of its pivotal mounting and serving as a lever for operating said cutter bar and provided with a handle



and with means for locking the cutter bar in adjusted position, a cutter chain carried by and movably mounted on said cutter bar, and means for driving said cutter chain.

1,422,387. TOOL HANDLE. WILLIAM HATTON STEVENS, Hollidaysburg, Pa. Filed Dec. 23, 1920. Serial No. 432,850. 7 Claims. (Cl. 145—61.)



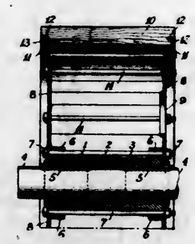
1. A shovel handle comprising a tubular metal core, in combination with a molded body filling and encasing said core.

1,422,388. AUTOMOBILE FENDER. SARKIS H. SUMBULIAN, Fresno, Calif. Filed Aug. 30, 1921. Serial No. 497,043. 3 Claims. (Cl. 280—153.)



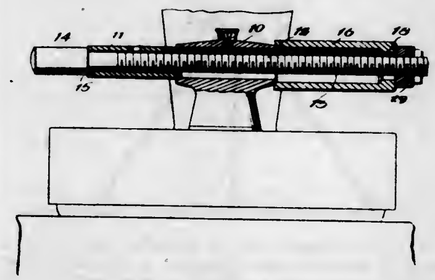
1. An automobile fender structure comprising an arched member adapted to fit over the automobile radiator, upwardly and outwardly inclined braces carried by the arched member, tie members between the braces and arched member and downwardly and rearwardly curved angle members cooperating with the braces and arched member to support the fender wings.

1,422,389. PULLEY. SETH R. SWAIN, East Orange, N. J. Filed Jan. 31, 1921. Serial No. 441,179. 6 Claims. (Cl. 64—17.)



1. A pulley comprising in combination, a hub consisting of a plurality of tubular sections, means for holding said sections in end-to-end contact with each other, a plurality of peripherally spaced webs each connected to a corresponding one of said sections, a plurality of face-forming staves extending between said webs, and means for drawing said webs toward each other to cause them to clamp said staves.

1,422,390. BUSHING INSERTER OR REMOVER. OTTO F. TIMM, Wilsoncreek, Wash. Filed Apr. 8, 1921. Serial No. 459,674. 1 Claim. (Cl. 29—88.2.)

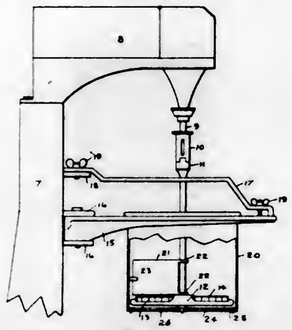


In a device for inserting and removing bushings from machine elements, bearings or the like, a shaft having a portion of its periphery threaded and adapted to be extended through the bushing operated upon, a head integral with the shaft at one end thereof and comprising an annular shoulder engageable with one end of the bushing, a sleeve arranged on the shaft and having one end beveled to adapt it for engagement with the machine element and having an inwardly extending annular flange at its opposite end adapted with the end of the sleeve to constitute a seat, and a nut engaging the threads of the shaft and abutting the seat of the sleeve, said shaft having its ends opposite from the head squared and having a transverse opening adjacent said squared portion whereby it may be held from turning.

1,422,391. FOOD MACHINE. JOSEPHINE TRUST and HENRY TRUST, Park Ridge, N. J., assignor, by mesne assignments, to Meteor Mixing Machine Co., Inc., a Corporation of New York. Filed Sept. 18, 1919. Serial No. 324,603. 1 Claim. (Cl. 146—11.)

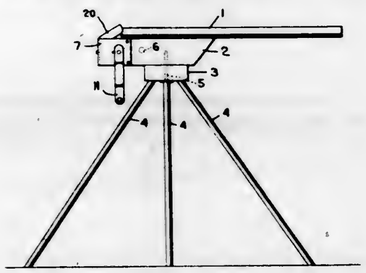
In a machine of the class described, a receptacle provided with an opening in the bottom, a cutting tool

adapted to rotate therein and a partition adjacent thereto for preventing the rotation of food therewith,



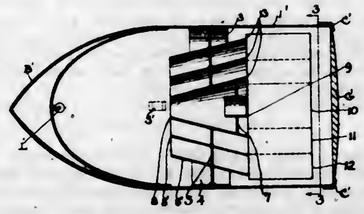
said tool provided with upper knife-like members extending radially and lower knife like members extending axially.

1,422,392. TOY MACHINE GUN. JOHN B. VAN DOREN, Rockland, Mass., assignor to The National Fireworks Manufacturing Company, West Hanover, Mass., a Corporation of Arizona. Filed Dec. 6, 1919. Serial No. 342,970. 4 Claims. (Cl. 42—57.)



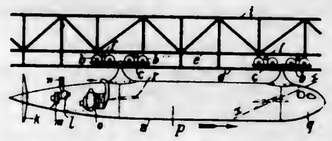
1. A pyrotechnical toy for exploding successively a series of fulminate caps or patches of fulminate carried by a strip, comprising a plurality of juxtaposed rotatable rollers adapted to receive the fulminate bearing strip between them, means for rotating one of said rollers and resilient means for forcing said rollers towards each other with sufficient pressure to explode said caps successively as they pass between said rollers.

1,422,393. DIMMER. JOHN M. WADDELL, Alexandria, La. Filed July 16, 1920. Serial No. 396,828. 2 Claims. (Cl. 240—48.4.)



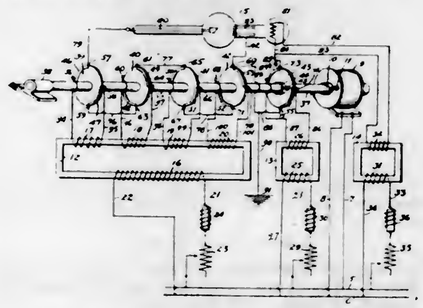
1. In a headlight for vehicles, the combination with a reflector and light source, of a light deflecting member placed in front of the reflector and comprising concentrically arranged frusto-conical elements with their edges lying substantially in the same vertical planes, the inner edge of each element being in overlapping relation with the outer edge of the enclosed element, and a grid comprising forwardly directed parallel plates carried at the front end of the deflecting member, said member having means for allowing it to be moved forwardly and rearwardly with relation to the light source and for rotary adjustment about the common axis of the frusto-conical elements.

1,422,394. SUSPENDED HIGH-SPEED RAILWAY. RUDOLF WAGNER, Hamburg, Germany. Filed Nov. 7, 1919. Serial No. 336,407. 8 Claims. (Cl. 104—23.)



1. A suspended high speed railway, comprising a car of aerodynamically favorable shape, means for propelling the car comprising a motor and a propeller connected thereto, parallel rails, two or more trucks, each truck comprising a rigid frame supported upon two or more pairs of opposed wheels, and a single rigid connecting member between each truck and the car body, the said member being located substantially midway between the rails and being so mounted as to permit movement of the car body in directions transversely of the said track.

1,422,395. MULTIDISK ELECTRIC MACHINE. REINHOLD H. WAPPLER, Yonkers, N. Y., assignor to Wappler Electric Co., Inc., a Corporation of New York. Original application filed Aug. 11, 1919, Serial No. 316,584. Divided and this application filed Dec. 12, 1919. Serial No. 344,372. 11 Claims. (Cl. 175—364.)

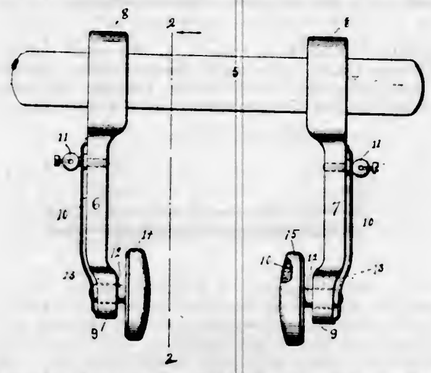


1. In an electric machine the combination of a plurality of a number of secondary windings, a plurality of rectifying disks associated with said secondary windings and mounted to rotate freely in air, conductors connecting said secondary windings with said rectifying disks in order to enable the rectifying disks to rectify the currents generated in said secondary windings, and means controllable at the will of the operator for adjusting one of said rectifying disks relatively to another, in order to cause one of said currents to lag behind another.

1,422,396. CLAMP MOUNTING FOR ELECTRODES. REINHOLD H. WAPPLER, Yonkers, N. Y., assignor to Wappler Electric Company, Inc., a Corporation of New York. Filed Feb. 14, 1921. Serial No. 444,810. 9 Claims. (Cl. 174—89.)

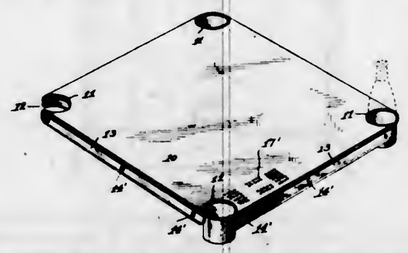
1. The combination, with a clamp consisting of a straight slat and a pair of arms slidably mounted thereon

and substantially parallel with each other, of a pair of electrodes and a pair of springs connected with said



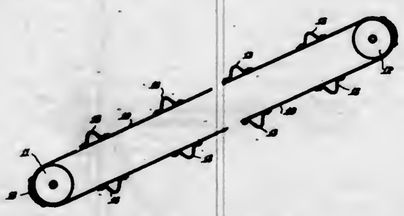
electrodes and with said arms, for the double purpose of supporting said electrodes resiliently upon said arms and of supplying electric currents to said electrodes.

1,422,397. SMOKER'S TABLE. JAMES WATSON, Athens, Pa. Filed Jan. 17, 1922. Serial No. 529,960. 4 Claims. (Cl. 45—122.)



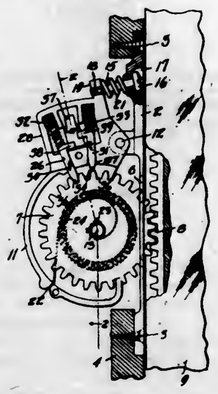
1. A game-table having openings formed at its corners and provided with an open side, a reenforcing-strip secured to the edge of the table and extending around one side of each of said openings to form a support for a cup-like receptacle, the top edge of said reenforcing-strip being positioned below the top-surface of the table to permit the bead around the top-edge of the receptacle to lie flush with the top-surface of the table.

1,422,398. CONVEYING BELT. JESS L. WENTZ, Passaic, N. J. Filed May 21, 1919. Serial No. 298,625. 1 Claim. (Cl. 198—199.)



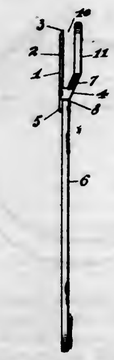
A flexible conveyer belt comprising a single layer of flexible material, a plurality of independent flexible flights supported at intervals directly upon said belt, each flight comprising a section of integral flexible material having its middle portion normally arched away from the belt and its opposite ends secured to said belt parallel to the latter, said flights elongating, when said belt passes over a pulley, to lie substantially parallel to said belt.

1,422,399. SASH LOCKING AND BALANCING MECHANISM. ARTHUR C. WHEELOCK, Oakland, Calif., assignor to American Automatic Lock and Lift Company, San Francisco, Calif., a Corporation of California. Filed Nov. 29, 1920. Serial No. 426,899. 5 Claims. (Cl. 16—201.)



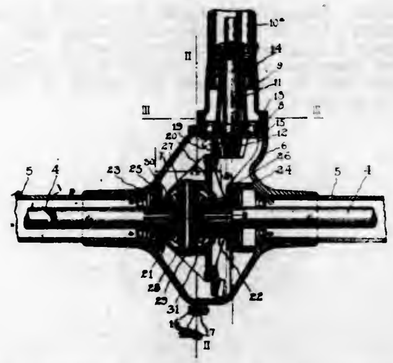
2. In a device of the character described in combination with spring actuated balancing means, a ratchet, a plurality of tumblers adapted to engage said ratchet simultaneously and arranged when so disposed whereby one tumbler will lie in staggered relation with respect to the ratchet spaces when another tumbler is seated therein, each of said tumblers when engaged in one of said spaces being capable of preventing the movement of the ratchet with respect to the tumblers in opposite directions, and means for holding all of said tumblers disengaged from said ratchet.

1,422,400. CAN OPENER. FREDERICK L. WHITCOMB, Clyde, Ohio. Filed Aug. 19, 1921. Serial No. 493,636. 3 Claims. (Cl. 30—3.)



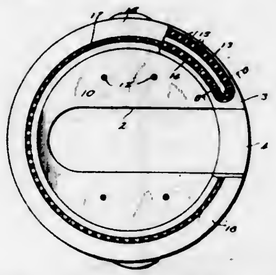
1. A can-opener comprising a cutting blade member provided with fulcrum ears disposed at right angles thereto, and having a prolonged tang, said blade member being formed from a sheet metal blank; and a metal handle off-set to form a terminal guide, the blade tang being integrally attached to the inside face of the handle member below the off-set, and the ears overlapping opposite edges of said handle.

1,422,401. DIFFERENTIAL DRIVING MECHANISM FOR MOTOR VEHICLES. JOHN W. WHITE, Detroit, Mich. Filed June 10, 1919. Serial No. 303,084. 3 Claims. (Cl. 74—99.)



2. In differential driving mechanism, in combination, two driving axles arranged in line with one another, a hollow gear casing comprising two casing members secured together, and one of which members is provided with an opening formed entirely in said member, two bearings located one within each of said casing members; a rotatable differential pinion carrier located within said casing and the ends of which are supported in said bearings; differential gearing through which said axles are driven from said carrier; a third casing member secured in place over, and so as to register with said opening; a driving shaft located within said third casing member and arranged at right angles to said driving axles and the axis of which is in line with one of the bearings aforesaid; a driving pinion carried by said driving shaft; and a driven ring gear carried by said carrier and with which said driving pinion is in mesh.

1,422,402. WRENCH. OKEY M. WHITE and WILLIAM CHESTER MCCULLOUGH, Muskogee, Okla., assignors of one-third to Alexander Mathews, Muskogee, Okla. Filed Dec. 11, 1920. Serial No. 429,912. 3 Claims. (Cl. 81—119.)



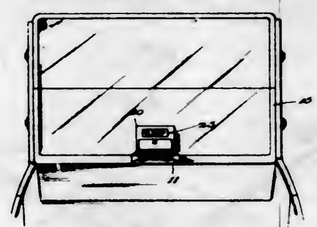
1. A wrench of the character specified, comprising a bit engaging element, and a ring in which the said element is journaled, the ring having a hinged portion adapted to swing upwardly to permit the insertion of the bit into the bit engaging element through the ring, and means for locking said hinged portion in closed position, and a ball bearing arranged between the bit engaging element and the ring, said bearing comprising arc-shaped grooves in the ring, one of said grooves being of a depth to entirely receive the balls of the bearing, and the other being of a depth to extend the balls into engagement with the bit engaging element, said grooves being connected at their ends by inclined passages, said grooves extending from one end of the gate opening to the other the inclined passages being at the opposite sides of the gate opening.

1,422,403. MUFFLER. FRANK A. WHITTEN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 17, 1919. Serial No. 304,755. 9 Claims. (Cl. 137—160.)



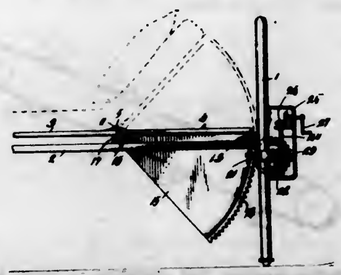
1. A muffler consisting of a tubular member of substantially uniform area throughout its length and having two flanges extending outwardly from its periphery and longitudinally thereof and throughout the length of the muffler, and which flanges are spaced apart from one another to thereby provide an outlet passage between them.

1,422,404. THEFT SIGNAL FOR MOTOR VEHICLES. LUDWIG R. ZEPKA, Cleveland, Ohio. Filed Sept. 10, 1921. Serial No. 499,592. 6 Claims. (Cl. 40—15.)



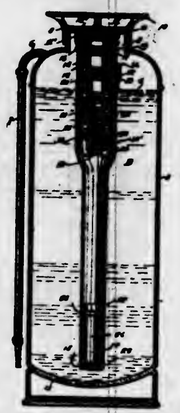
6. A theft signal for motor vehicles including a casing having a partition therein and open at opposite sides above the partition, a plate closing the casing below the partition, a signal plate shiftable through the partition to a position between said sight openings, a lock carried by said closure plate and having a bolt, and a bell crank pivoted within the casing forming an operative connection between the bolt and said signal plate whereby the lock may be operated for shifting the signal plate.

1,422,405. ELEVATING RACK FOR BEDS. CLIFFORD G. ALGUIRE, Madison, S. Dak. Filed Sept. 10, 1921. Serial No. 499,861. 2 Claims. (Cl. 5—43.)



1. An adjustable head for beds comprising an adjustable frame adapted to be mounted on a bedstead adjacent the head thereof, lifting elements between the side rails of the said bed and adjusted vertically thereof, said elements normally engaging and supporting the adjustable frame in a horizontal position, bracket members carried by the head posts, a shaft mounted in said bracket members and extending transversely of the bed, pinions carried by said shaft for engaging with the lifting elements, a third pinion carried on one end of the said shaft adjacent one of the head posts, a frame connected to the post and adjacent the said third pinion, and means mounted in the frame for driving the said third pinion.

1,422,406. FIRE EXTINGUISHER. FREDERICK C. BARGAR, Columbus, Ohio, assignor to Foamite Firefoam Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 11, 1919. Serial No. 316,749. 50 Claims. (Cl. 169—32.)

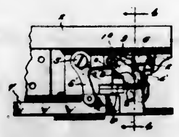


1. A gas pressure generating attachment for a fire extinguisher comprising a shell adapted to be connected with the extinguisher and provided interiorly with a material which has potential energy and is transformable gradually into a gaseous product capable of exerting kinetic energy adequate to expel the extinguishing agent from the extinguisher.

36. A chemical fire extinguisher comprising a container for the chemical fire extinguishing agent, said container having an outlet, and mechanism for supplying a pressure of gas upon the agent in said container to expel said agent through the outlet, said mechanism comprising a means containing a material having potential energy and transformable in and of itself into a gaseous product capable of exerting kinetic energy and which means has its interior normally out of communication with the interior of the container and has communication therewith when the gaseous product has been formed, and means for setting the aforesaid means into gas producing activity at the time the gaseous product is to be used to expel the extinguishing agent from the container.

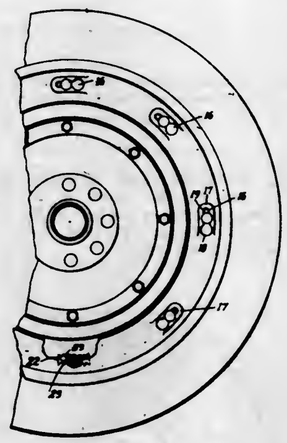
1,422,407. THREAD CUTTER. RUDOLPH BECKER, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 6, 1918. Serial No. 252,938. 10 Claims. (Cl. 112—252.)

2. In a sewing machine, a thread-cutter comprising a cutting blade having a fixed fulcrum, a second cutting blade coacting therewith having a floating fulcrum and a cam-surface, a pivotal connection between said blades intermediate their fulcrums, means for moving said first blade on its fulcrum, and means coacting with the cam-



surface to move the second blade about the pivotal connection between the blades.

1,422,408. RIM CONSTRUCTION FOR PRESSED STEEL WHEELS. DAVID H. BELLAMORE, New York, N. Y., and THOMAS I. S. BOAK, East Orange, N. J.; said Boak assignor to said Bellamore. Filed Aug. 22, 1919. Serial No. 319,129. 1 Claim. (Cl. 301—23.)

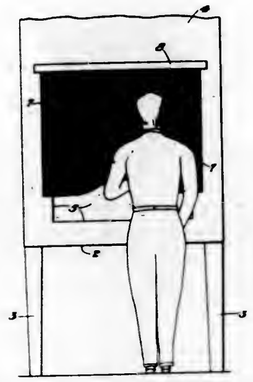


As a new article of manufacture a wheel embodying a disc, the outer margin of which is bent laterally to form a fixed rim section, said disc being provided, adjacent the fixed rim section, with an annularly disposed slot, the inner and outer edges of which are serrated, a plurality of studs rigid with the disc and extending from one face thereof in an annular path, in combination with a ring member, the outer margin of which is bent laterally to form a removable rim section and which is provided with a plurality of inclined keyhole slots equal in number to the studs and similarly placed, whereby the ring member may be brought into position to cause all of the keyhole slots to receive the studs and thereafter rotate to tightly clamp the parts together, and a bolt provided with a polygonal portion adapted to extend through the slot in the disc and interfit with the serrated edges of said slot when said bolt is passed through said slot and through the aperture in the ring, for the purpose of locking the ring against retrograde rotation.

1,422,409. SAFETY SCREEN. JAMES L. BERNARD, Beaver, Pa. Filed May 31, 1921. Serial No. 473,991. 4 Claims. (Cl. 45—105.)

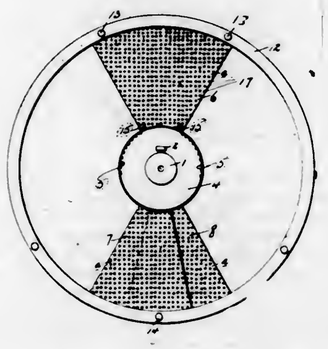
1. The combination with a laboratory table having a vertical front wall extending upwardly from the top thereof, and provided with a suitable opening through which an operator may manipulate any desired appara-

tus supported on said table, of a safety screen adapted to close said opening to prevent objects that may be exploded on said table striking the operator, said screen



comprising a flexible metallic intermeshed member having its one side secured along the top of said opening, and having its other three sides free.

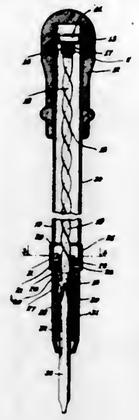
1,422,410. SHUTTER FOR MOTION-PICTURE-PROJECTING MACHINES. JOHN B. BLANTON, Chattanooga, Tenn., assignor of one-half to Harry A. Wingers, St. Louis, Mo. Filed Apr. 21, 1920. Serial No. 375,591. 16 Claims. (Cl. 88—19.3.)



1. A motion-picture projecting-machine shutter comprising in combination, a hub, a blade fixed relatively to the hub, a plurality of blades shiftable circumferentially relatively to the hub and the fixed blade for varying the number of light-obstructions presented by the shutter per revolution, and means for limiting the circumferential movement of the shiftable blades relatively to the fixed blade, the shiftable blades being circumferentially spaced from the fixed blade throughout their limit of movement.

1,422,411. SCREW DRIVER. FRANK V. BORICK, New York, N. Y. Filed June 4, 1920. Serial No. 386,454. 1 Claim. (Cl. 145—53.)

In a spiral tool driver, the combination of a tubular member terminating at its lower end in a series of projections provided with parallel straight side edges disposed axially thereof, a handle attached to the opposite end of said member, a spiral spindle composed of square material extensible in said tubular member, a ferrule enclosing the end of the tubular member having the said projections, the said ferrule being provided with an opening to receive the spindle therethrough and having its closed end spaced substantially away from the adjacent end of the tubular member, a complemental spring actuated member movable axially and rotatably within said ferrule and having upstanding projections similar to the first named projections and adapted to be received by



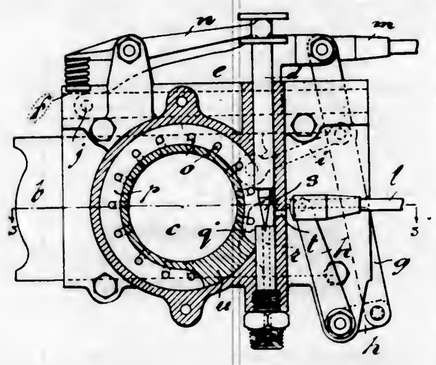
the latter, whereby rotation of the tubular member in either direction will cause a corresponding rotary movement of the complemental member, the latter member being provided with an upstanding central sleeve having a through square bore to embrace the walls of said spindle, whereby axial movement of the spindle and tubular member relatively to each other will cause the projections of the complemental member to remain in engagement with the projections of the tubular member when the tool is collapsed to drive a screw and to move the complemental member axially and then rotatably to disengage the said projections when the tool is extended.

1,422,412. MANUFACTURE OF ARTIFICIAL SILK. EMILE BRONNERT, Mulhausen, France. Filed Aug. 31, 1920. Serial No. 407,252. 2 Claims. (Cl. 18—54.)

1. The step in the process of producing very fine viscose silk threads of 6 deniers or less, which consists in forcing the viscose through the usual aperture of 0.10 mm. diameter into a precipitant bath containing a concentrated solution of easily soluble bisulphites, the concentration of the bath being directly proportional to the fineness of the thread to be produced, so that the concentration is increased in accordance with the fineness of the thread desired.

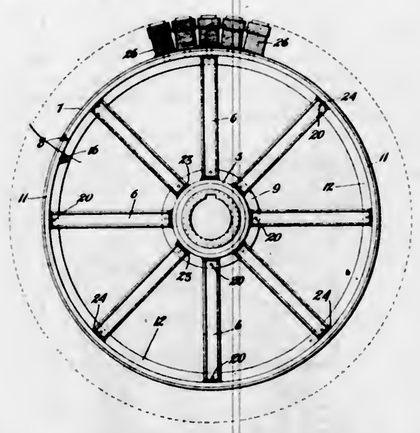
1,422,413. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. CLEMENT BROWN, Birchfield, Birmingham, England. Filed Oct. 15, 1918. Serial No. 258,227. 1 Claim. (Cl. 261—51.)

In a carburetor, a main air passage, a throttle valve controlling said passage, a fuel orifice, a cam moving parallel to said throttle valve, a guide to which said cam is pivoted, a member actuated by said cam for controlling said orifice, means for simultaneously moving said cam and said throttle valve, and means acting on



said first named means for moving said cam on its pivot independently of said throttle valve.

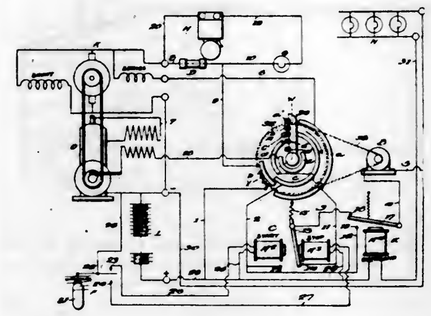
1,422,414. ROTOR SPIDER. JAMES BURKE, Erie, Pa., assignor to Burke Electric Company, a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 336,214. 3 Claims. (Cl. 171—252.)



1. In a rotor for electrical machinery, the combination of a hub of cast metal having a central peripheral projection, channel bars radially extending therefrom welded to opposite sides of said projection and having the web of said channel bars facing said projection, a cylindrical ring of metal stock forming an outer field supporting ring, and means for fastening said ring to the ends of said bars to form a rim for said hub.

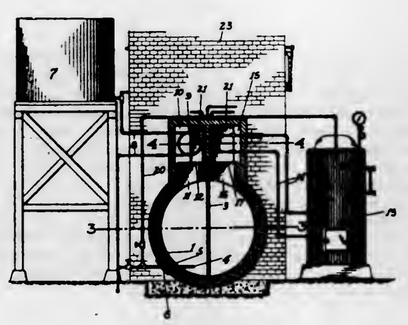
1,422,415. AUTOMATIC ELECTRICAL CONTROLLING DEVICE. CARL F. P. CARRIER, Philadelphia, Pa. Filed Oct. 9, 1919. Serial No. 329,440. 4 Claims. (Cl. 290—30.)

1. In a system for generating and distributing electricity, a dynamo electric machine having both shunt and series windings, a prime mover mechanically connected to said machine, a storage battery, a switching device means responsive to the electrical condition of the battery for automatically operating said switching device, and means, controlled by said switching device, for either connecting the battery to said machines so as to utilize the shunt winding only, when the machine is acting as



a generator, or for connecting said battery to the machine in such manner as to utilize the series winding when said machine is acting as a motor.

1,422,416. COMBUSTION AND MIXING CHAMBER FOR DEHYDRATORS. FRANK C. CHAPMAN, Modesto, Calif. Filed Sept. 28, 1920. Serial No. 413,452. 7 Claims. (Cl. 158—1.)

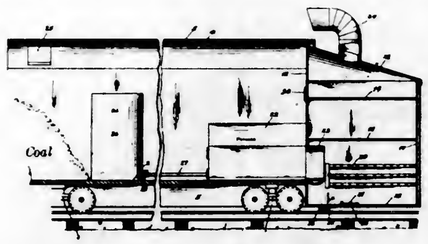


4. A device of the character described, including a combustion chamber, oil burners projecting thereinto, a steam supply pipe connected to said burners, a pair of independent chambers communicating with the combustion chamber, the oil supply pipe passing through one chamber and the steam pipe passing through the other, and means for independently regulating the amount of heat which may enter said chambers.

1,422,417. SNOWPLOW. ELI CLAYBORNE, Hot Springs, Ark. Filed Dec. 4, 1920. Serial No. 428,232. 2 Claims. (Cl. 37—60.)

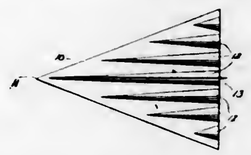
1. The combination of a car, a hollow plow carried by the car and covering the entire front end of the same, a vertical partition extending across the front end of the car and forming the back wall of the plow, a door in said partition to establish communication between the car and the plow, horizontal partitions secured upon and projecting forwardly from said vertical partition across the plow, the forward edges of said horizontal partitions

being supported upon but in spaced relation to the front walls of the plow, a smoke pipe rising from the roof



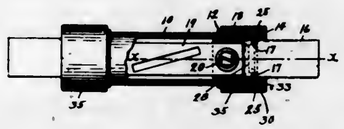
of the plow, and a heater within the car having an outlet extending through the vertical partition and into the plow below the bottom horizontal partition.

1,422,418. SUBSOIL ATTACHMENT FOR PLOWS. HENRY H. COLBY, Tallula, Ill. Filed Nov. 26, 1920. Serial No. 426,560. 3 Claims. (Cl. 97—32.)



3. A subsoil attachment of the character specified comprising a substantially flat blade having its longitudinal edges tapering to a point at its forward end, a carrying member projected upwardly from the central longitudinal part of the blade and a plurality of laterally spaced raised portions extending longitudinally of the blade and on opposite sides of the vertical carrying member, said portions tapering towards their forward ends to a point flush with the upper surface of the blade and in spaced relation to the leading edges of the latter, the upper surface of each portion being on a rearwardly inclined plane for lifting and depositing the subsoil rearwardly of the advancing blade to form moisture-retaining furrows below the surface of the ground.

1,422,419. RENEWABLE FUSE. FRANKLIN N. CONANT, Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company, a Corporation of Massachusetts. Filed July 10, 1919. Serial No. 309,813. 4 Claims. (Cl. 200—132.)



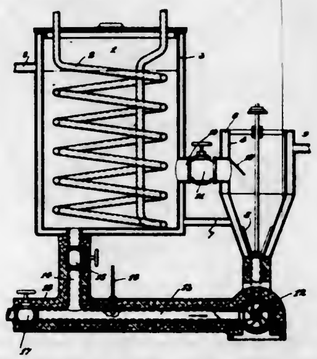
4. In an enclosed electric fuse of the cartridge type, the combination of a ferruled insulating fuse casing having an inturned lip at the end of the ferrule with oppositely disposed notches, a fusible element having a terminal blade with notches in its edges for engaging said lip by way of the notches therein, a holding plate for the terminal blade which substantially closes the open end of the casing, and lips fitting with the notches in the ferrule flange and other lips hugging the terminal blade with spring pressure, a yielding packing washer snugly fitting the blade and extended over the holding plate, a metal washer arranged over said yielding washer, and an end cap exerting pressure on said washer and holding the parts assembled.

1,422,420. RENEWABLE FUSE. FRANKLIN N. CONANT, Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company, a Corporation of Massachusetts. Filed July 26, 1919. Serial No. 313,580. 17 Claims. (Cl. 200—132.)



16. In an enclosed electric fuse of the cartridge type, the combination of a ferruled casing having an apertured side wall and an end wall with an aperture having a straight side, a fuse strip having its end portion extended through said aperture and bent over the straight side thereof, a removable plate having a projection which enters the aperture and having a tongue on said projection which enters the aperture in the side wall of the casing and having projections for engaging the end of the casing.

1,422,421. METHOD AND APPARATUS FOR MIXING SOLID MATERIALS WITH LIQUIDS. ORIN D. CUNNINGHAM, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 21, 1920. Serial No. 405,198. 9 Claims. (Cl. 23—3.)

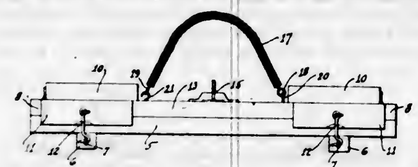


1. The method of effecting the admixture of solids with liquids at low temperatures, which comprises circulating the liquid from and to a cooling chamber through a mixing chamber of relatively small capacity, admixing the solid with the liquid in the mixing chamber with vigorous agitation and continuously returning the liquid with the admixed solid and reaction products to the cooling chamber, the rate of addition of the solid and the rate of circulation of the liquid being so regulated as to maintain the desired low temperature.

1,422,422. FOLDING FEED BOX. MESHACK DAVIS, Schlater, Miss. Filed Aug. 13, 1921. Serial No. 491,963. 2 Claims. (Cl. 217—15.)

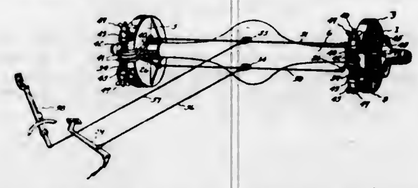
1. A device of the character described comprising a receptacle, a yieldable bail connected at one end to one of

the foldable members of the receptacle, and adapted to extend around a suitable support, and means carried by



said member of the receptacle for the reception of the opposite end of the bail to hold said bail in binding engagement with the support.

1,422,423. BRAKE MECHANISM. HUGO DOTZER and SAMUEL G. BARNARD, Seattle, Wash.; said Barnard assignor to said Dotzer. Filed Mar. 9, 1920. Serial No. 364,438. 2 Claims. (Cl. 188—204.)



1. In a vehicle of the character described, the combination with wheels at opposite sides of the vehicle having braking mechanism and arms movable to actuate the braking mechanism, of a cable connected at its ends to the ends of said arms and drawn taut between them, a brake lever and a connecting means fixed at one end to the brake lever, and at its opposite end having a movable connection with the first named cable whereby tension by actuation of the brake lever causes actuation of the brake arms and automatic adjustment of the connection along the arm connecting cable whereby equalization of tension on both braking mechanisms is effected.

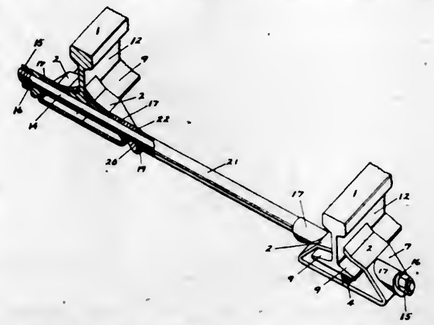
1,422,424. ANIMAL TRAP. WILLIAM DUNN, Bannack, Mont. Filed Dec. 24, 1920. Serial No. 432,898. 3 Claims. (Cl. 43—87.)



1. In an animal trap, the combination with a frame, one portion of which is adapted to be bent upon the other part, of locking means for holding it in its closed position, an eye at each outer corner end of the lower portion of the frame, a looped cable secured to each outer corner end of the bent-over portion of said frame and projecting forwardly through a respective eye on the lower portion of the frame, a substantially wide loop formed on each cable end beyond its respective eye, and means adapted to be actuated by an animal to release the locking means, whereby the bent-over portion of the frame will spring upwardly and rearwardly to draw the looped ends of the cable tightly about said animal, for the purpose specified.

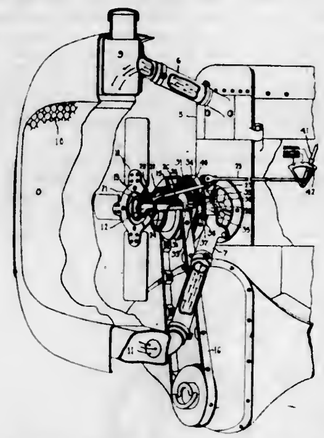
1,422,425. TRACK BRACE. WILLIAM DUNN, Bannack, Mont. Filed Dec. 24, 1920. Serial No. 432,899. 3 Claims. (Cl. 238—53.)

1. In a device of the type described, the combination with a pair of rails in track alinement, of compression means between said rails, a tension member passing beneath the rails and bearing on the under surface of each one of the latter, a clamping plate bearing on each side of the web of each rail and the upper surface of the



base of the latter, and wedge-shaped sleeves mounted on the tension member between the ends of the latter and the ends of the compression means for the purpose specified.

1,422,426. COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. WARREN H. FARR, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 10, 1919. Serial No. 303,086. 18 Claims. (Cl. 123—170.)

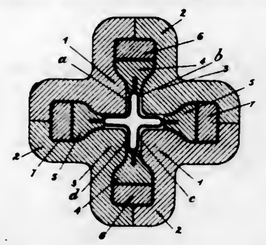


1. In a cooling system for internal combustion engines, a radiator through which a cooling liquid may flow; conduits connecting the upper and lower ends of the radiator with the cooling jacket of the engine; and means for causing the cooling liquid to flow through the cooling system provided by the elements aforesaid in a direction the reverse of the direction in which the said cooling liquid normally flows.

1,422,427. ELECTRIC APPARATUS FOR PROPELLING PROJECTILES. ANDRÉ LOUIS OCTAVE FAUCHON-VILLEPLÉE, Paris, France. Filed Apr. 1, 1919. Serial No. 286,799. 4 Claims. (Cl. 172—285.)

1. An electric gun comprising in combination energising bars adapted to create a field of electric forces extending over the whole length of the gun, a plurality of rails adapted to act as current feeding means and to guide in a direction at right angles to said field of forces, a projectile provided with an equal plurality of wings, said rail being provided with grooves in which said wings are

adapted to slide, the rails and bars being arranged parallel to each other in groups which are located at diametrically



opposite points around the longitudinal axis of the gun, and means for supporting the rails and bars.

1,422,428. BRACELET LINK. OTTO FESSLER, Irvington, N. J. Filed Apr. 4, 1919. Serial No. 287,460. 13 Claims. (Cl. 24—236.)



3. In a link of the character described, the combination with opposite side parts having their adjacent faces recessed, of a middle part between said side parts in the form of a looped strip having at its lateral edges ears offset inwardly from that portion of its outer surface between said ears, said ears projecting into the recesses of said side parts to hold the middle part against displacement from between the side parts, and said portion of the outer surface of the middle part between said ears being substantially flush with the edges of the side parts.

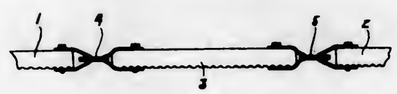
1,422,429. CONNECTION FOR ELECTRICAL APPARATUS. CHARLES D. FILKINS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 21, 1919. Serial No. 291,608. 6 Claims. (Cl. 171—242.)



1. The combination in an apparatus of the class described of a fixed element, a movable element mounted on a trunnion so as to be capable of rotation with respect to said fixed element, and means for making an electrical connection to said movable element comprising a fixed coiled conductor surrounding said trunnion and in frictional engagement therewith.

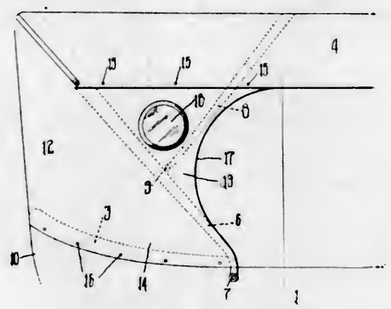
1,422,430. FASTENING FOR DRIVING BELTS. ALEXANDER JOHN FORBES, Brooklea, North Kessock, Scotland. Filed Feb. 9, 1921. Serial No. 443,648. 1 Claim. (Cl. 24—32.)

In a driving belt, an adjustable fastening comprising a flexible belt section of substantial length and of substantially the same cross-sectional figure as the driving belt, a pivoted left-hand screw coupling between one end of said flexible section and the belt and a pivoted right-hand screw coupling between the belt and the other end of said flexible section, each coupling comprising a slotted clip secured to one end of the flexible belt section, a screw



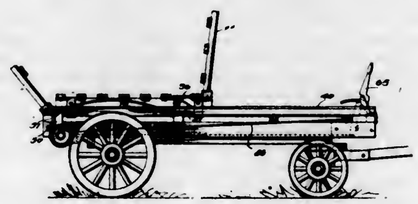
pivoted to said clip and movable in said slot, a second slotted clip secured to the belt, said screw passing freely through the slot of said second clip and an adjustable crosshead on said screw, said cross head being embraced by said second clip so that the pair of clips are movable towards each other but restrained from movement in the opposite direction.

1,422,431. COMBINATION BACK AND SIDE CURTAIN. KINGSTON FORBES, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 1, 1920. Serial No. 362,389. 3 Claims. (Cl. 296—138.)



2. In a device of the class described, a vehicle body, a top, supports for supporting said top from said body, a back curtain secured to the rear of said body and top, side curtains secured to said back curtain and extending forwardly therefrom, a wing portion secured to the forward portion of each of said side curtains, said wing portions being detachably connected to said top, and terminating short of said body, substantially as shown and described.

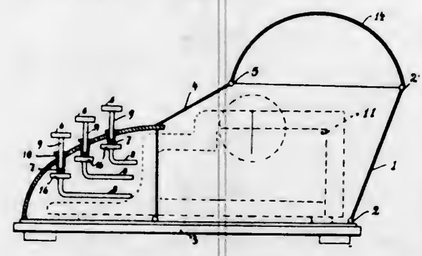
1,422,432. HAY LOADER. PERCY LLOYD FORBES, West Middlesex, Pa. Filed May 13, 1921. Serial No. 469,181. 10 Claims. (Cl. 214—81.5.)



1. In a device of the character described, a frame, ground wheels therefor, tracks on said frame, a carriage on said tracks, driving mechanism for said carriage including a pair of swinging bearings, a winding shaft

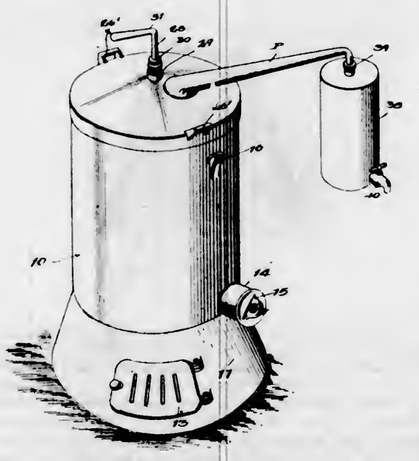
journaled in said bearings and a pair of driven friction gear wheels connected to said winding shaft and engageable with said ground wheels, controlling means for said drive mechanism adapted to yieldingly move said gear wheels into operative engagement with said ground wheels and to positively move said gear wheels out of engagement with said ground wheels, and motion transmission means between said winding shaft and said carriage.

1,422,433. TYPEWRITING MACHINE. RUDOLF FRIES, Berlin-Schoneberg, Germany. Filed Sept. 3, 1920. Serial No. 408,096. 2 Claims. (Cl. 197—186.)



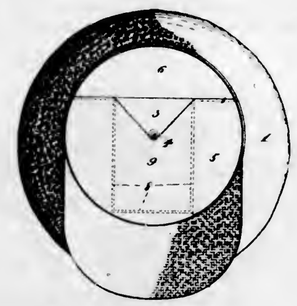
1. Sound deadening device for typewriting machines which comprises a sound-proof casing adapted to enclose the typewriter and to be hingedly secured at its lower rear portion to the base-plate upon which the typewriter is mounted so as to be freely movable about its hinges into and out of operative position; a hinged window carried by said casing at the front part thereof; a hinged lid carried by the top part of the said casing; and a plurality of keys carried by said casing, in position to engage the keys of the typewriting machine when the casing is in operative position.

1,422,434. METHOD OF EXTRACTING FERTILIZING ELEMENTS FROM MANURE. COLL E. GARDAN, Wilson Creek, Wash. Filed June 1, 1922. Serial No. 565,097. 3 Claims. (Cl. 71—6.)



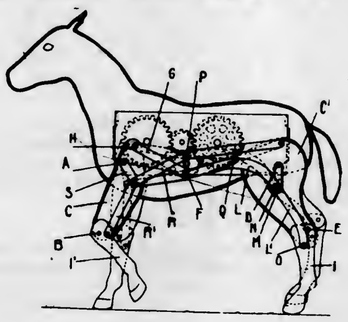
1. The method of extracting fertilizer elements from manure which consists in cooking manure in an aqueous suspension, and then submitting the manure to pressure while in said suspension.

1,422,435. CAP. HAROLD S. GOODING, Medford, Mass. Filed Sept. 7, 1920. Serial No. 408,416. 1 Claim. (Cl. 2—113.)



The combination in a cap, of a lining for the cap, said lining comprising separate sectional parts, a piece placed between said sectional parts of said lining, means for stitching said piece to the one sectional part of said lining whereby said piece and said sectional part of the lining may co-operate with one another to form a pocket presenting an open end, said piece having an extension forming a flap closing said open end of the pocket, a releasable fastener for holding the flap in place, and means for securing the other sectional part of said lining to said piece along the base edge of said flap and also to the said one sectional part of the lining on opposite sides of the open end of said pocket.

1,422,436. MOTION DEVICE FOR AUTOMATONS. FRANCESCO GORGELLINO, Turin, Italy. Filed Nov. 20, 1919. Serial No. 339,412. 4 Claims. (Cl. 46—40.)

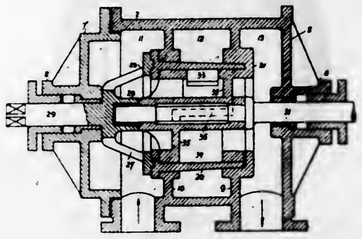


1. In a device for producing life-like relative movement between the parts of mechanical toys, the combination with a body portion, of an articulated leg, comprising an upper portion jointed to the body portion and a lower portion jointed to the upper portion, and an operating mechanism comprising a separate crank arm for each of said leg portions, a separate operating connection from each of said crank arms to its respective leg portion, and means for causing said crank arms to rotate in a predetermined relation.

1,422,437. VALVE FOR STEAM ENGINES. GIJSBERTUS GROENEWEGEN, Delft, Netherlands. Filed Dec. 27, 1918. Serial No. 268,488. 2 Claims. (Cl. 121—140.)

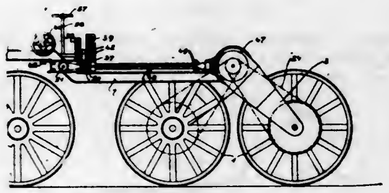
1. A valve, comprising a casing having a chamber formed therein and provided with a plurality of passages disposed at opposite sides of and in communication with

said chamber, said passages being arranged in pairs diametrically opposite each other, a shaft mounted for rotation in one end of said casing and carrying a valve liner having a pair of openings disposed in position to be brought into register with either pair of said passages, a shaft journaled at its opposite ends respectively in one



end of the casing and in the end of said first shaft and carrying a valve rotatable within said valve liner, said valve having a pair of chambers one in communication with a source of fluid supply and the other in communication with an exhaust outlet and provided with openings disposed in position to alternately communicate with the openings in said valve liner.

1,422,438. MOTOR TRACTOR. ERHARD GRÜBLER, Borsdorf, near Leipzig, Germany. Filed Oct. 3, 1921. Serial No. 505,007. 14 Claims. (Cl. 180—21.)



1. In a motor tractor the combination of a body frame, two rear road wheels, and means connecting said road wheels to said frame whereby said wheels are adjustable in the direction of travel and also at right angles to the planes of rotation.

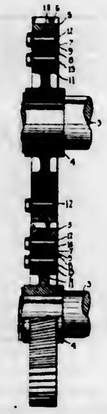
1,422,439. ANODE FOR LUMINOUS ARC LAMPS. CROMWELL A. B. HALVORSON, Jr., Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,652. 6 Claims. (Cl. 176—121.)



1. A positive electrode for luminous arc lamps, composed of an iron shell, a stem axially extending through the shell, and a copper core cold compacted in the shell and anchoring the stem.

1,422,440. CUSHIONED GEAR. ALEXANDER C. HAMILTON, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 23, 1919. Serial No. 319,454. 5 Claims. (Cl. 74—29.)

1. A resilient gear of the class described comprising concentric hub and rim portions having an annular channel formed in their sides and partly in one and partly in the other of said members, and the bottom or end wall of which channel is formed by annular flanges at the sides of said hub and rim the free edges of which flanges engage with one another to thereby prevent lateral movement of said rim; an annular yieldable connecting member lo-



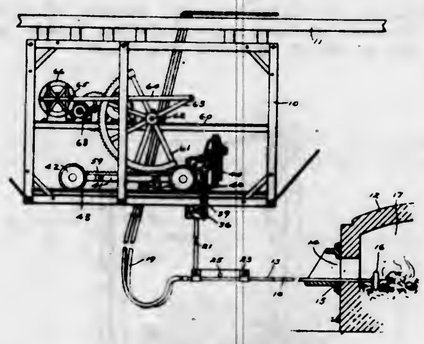
cated within said channel; two concentric retaining rings located within the open side of said channel and overlying said connecting member; and two series of fastening bolts one extending through one of said retaining rings, through said connecting member and through one of the side flanges aforesaid, and the other series through the other of said side flanges.

1,422,441. ATHLETIC SKIRT. ANNE HARMON, Irvington-on-the-Hudson, N. Y. Filed Apr. 10, 1920. Serial No. 372,743. 2 Claims. (Cl. 2—139.)



1. A skirt having a flexible diaphragm embodying depending leg-portions each being constructed from a piece of material having one straight long-side, end-edges formed at right-angles to said straight long-side, an opposite long-side which flares away from said straight long-side toward its ends to form a short outer side for the depending leg-portion, and an extended central panel to form long inner sides for both leg-portions and to the side-edges of which are connected the straight end-edges of the leg-portions, the flaring edges of said leg-portions and the front and rear edges of said central panel being secured all around the inner side of the skirt between the bottom edge and the waist-line thereof.

1,422,442. AUTOMATIC POKER. THOMAS MICHAEL HAUGH, LE ROY CRIS SCHILLING, and JOHN WESLEY FINCH, New Britain, Conn., assignors to The Eastern Malleable Iron Company, New Britain, Conn., a Corporation. Filed Jan. 14, 1918. Serial No. 211,855. 7 Claims. (Cl. 214—23.)

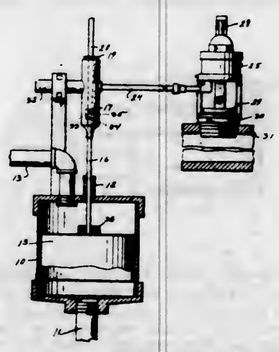


1. In combination in a poker structure, a rail supported truck having a limited to and fro movement, a frame operatively supported by the said truck for limited to and fro movement in the transverse direction, a poker structure connected to the said frame, and tripping mechanism operative to periodically effect a movement of the said frame and poker responsive to such to and fro movement of the truck.

1,422,443. LEADING-IN WIRES FOR INCANDESCENT ELECTRIC LAMPS. FREDERICK HOGE, Zoug, Switzerland. Filed Feb. 26, 1919. Serial No. 279,418. 1 Claim. (Cl. 176—36.)

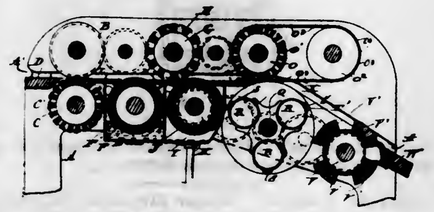
For incandescent lamps, high vacuum apparatus and the like, a leading in wire or conductor made of ignoble cheap metal having a coating composed of eight parts by weight of tungsten and one part by weight of fused glass.

1,422,444. CONTROLLER FOR AUTOMATIC VACUUM BREAKERS. WALDO A. HOWLAND, Adams, Mass. Filed Apr. 14, 1921. Serial No. 461,359. 4 Claims. (Cl. 137—103.)



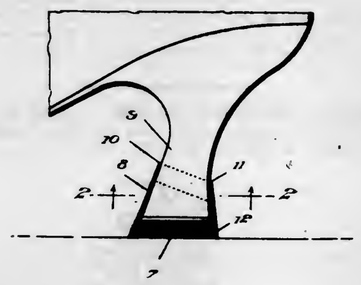
1. In a mechanism of the character described, a controlling valve comprising a hollow valve body formed with an annular seat, a valve normally resting on said seat, an inlet pipe entering the valve body above the seat and valve, an outlet pipe below the seat, and a tubular stem entering the opposite end of the valve body from the inlet pipe and having a diameter smaller than the diameter of the aperture in the annular seat, said stem having that end adjacent the valve open and having an outlet port in its length, the stem when shifted in one direction lifting the valve from its seat and permitting fluid to pass from the inlet pipe to the outlet pipe, said stem when lowered permitting the return of the valve to its seat and constituting an exhaust pipe.

1,422,445. RUG-SCOURING MACHINE. KENNETH C. JONES, Chagrin Falls, and JAMES H. JONES, Cleveland Heights, Ohio. Filed Apr. 12, 1920. Serial No. 373,163. 3 Claims. (Cl. 15—7.)



2. In a machine for scrubbing rugs, a vacuum roll and means for feeding said rug to said roll, a multiple number of suction chambers in said roll, each chamber having a suction opening and a spring pressed valve in each opening, each valve provided with a projection engaged by said rug in passing.

1,422,446. RUBBER HEEL. LOUIS KAPLAN, New York, N. Y. Filed May 27, 1921. Serial No. 473,144. 2 Claims. (Cl. 36—72.)

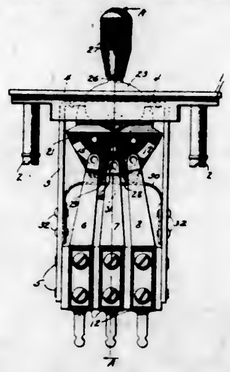


1. A detachable heel having a marginal retaining flange to embrace the heel of an article of foot wear, and an elastic band to embrace the second named heel having one portion connected to the corresponding portion of said flange and its opposite portion free to be disposed at the opposite portion of the second-named heel above said flange.

1,422,447. SWITCHING KEY. LE ROY WILSON KELSAY, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 8, 1921. Serial No. 443,338. 3 Claims. (Cl. 179—176.)

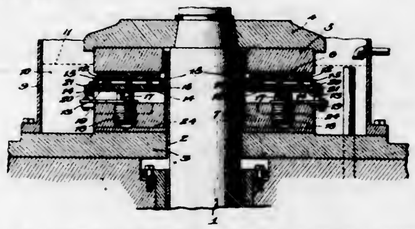
3. A switching key comprising a rectangular frame, contact springs attached to one end of said frame and parallel thereto, an oscillatory member pivotally supported at the opposite end of said frame and operable in a plane parallel

thereto, connecting blocks on said oscillatory member co-operating with said springs, and contact centering means



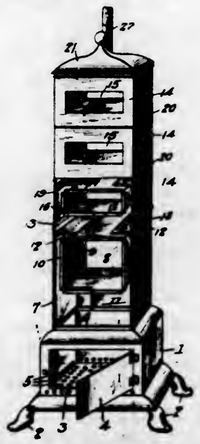
cooperable with said oscillatory member and supported on said frame intermediate the ends thereof.

1,422,448. BEARING. ALBERT KINGSBURY, Greenwich, Conn. Filed May 16, 1921. Serial No. 470,044. 26 Claims. (Cl. 64—25.)



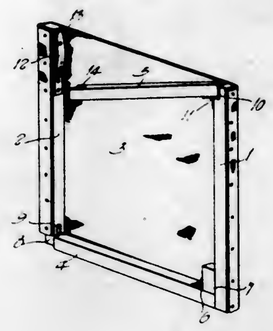
1. A bearing comprising relatively movable bearing members one of which includes a plurality of two-part bearing shoes and distributed elastic means associated with each shoe for supporting one part of said shoe from the other.

1,422,449. PORTABLE HEATER. LOUIS O. KOCH, Little Rock, Ark. Filed June 14, 1921. Serial No. 477,378. 3 Claims. (Cl. 126—90.)



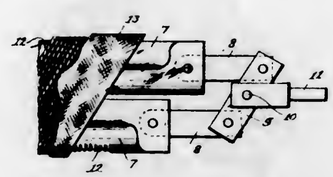
1. A heater comprising a base containing an open top compartment to receive the heating element, a series of superposed removable radiator sections each provided with a transverse open air flue, baffle plates carried by the bottoms of the flues and the side walls of each section, a cover for the upper section, and a vent pipe connected with said cover.

1,422,450. COVERED FOLDING FRAME. CARL R. KOSITZKY, Bismarck, N. Dak. Filed Nov. 8, 1920. Serial No. 422,727. 3 Claims. (Cl. 45—46.)



2. A device of the class described comprising a pair of side bars, a flexible sheet secured at two opposite edges thereto, a pair of spacing bars hinged to one of said side bars and adapted to extend between and to abut said side bars to space the same and stretch said sheet, means for holding one of said spacing bars in operative relation with one end of the other side bar, and an inwardly bowed spring anchored at one end to the other end of said other side bar, said spring having its free outer end bent laterally to form a stop for the other spacing bar, said spring being adapted to frictionally bind against the last-named bar end.

1,422,451. METHOD OF MAKING RUBBERIZED TIRE FABRIC. FREDERICK A. KRUSEMARK, Roanoke, Va., assignor to K. F. & C. Tire & Rubber Corporation, Roanoke, Va., a Corporation of Virginia. Filed Dec. 13, 1920. Serial No. 430,440. 3 Claims. (Cl. 154—2.)



2. The method herein described of making a two-ply tire fabric consisting in first making a flat tube of coiled cord, with the cords running diagonally, then applying an open-weave fabric to the outer face of the tube thus formed, and then longitudinally slitting the tube to form a fabric having one layer consisting of diagonally-arranged cords and the other layer of open-weave fabric.

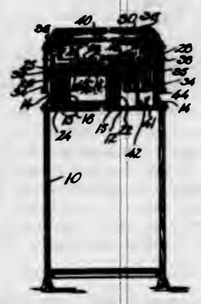
1,422,452. DENTAL-PLATE ANCHORAGE. EDWARD H. LACH, Vandergrift, Pa. Filed Apr. 6, 1922. Serial No. 550,113. 2 Claims. (Cl. 32—12.)

1. The combination with an anchoring natural tooth having a metal cap competely housing and permanently applied thereto, of a plate carrying artificial teeth and



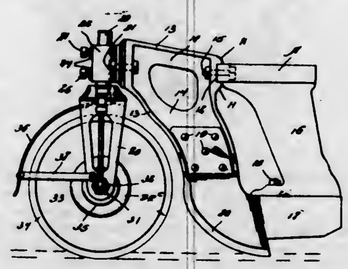
having a metal overcap shaped to snugly fit the capped anchoring tooth and to be removably mounted thereon.

1,422,453. PHONOGRAPH. PETER J. LANDIN, Denver, Colo. Filed Sept. 23, 1920. Serial No. 412,262. 6 Claims. (Cl. 274—2.)



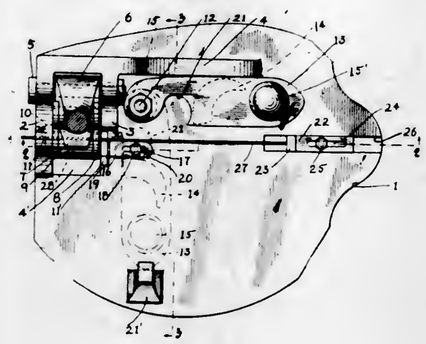
1. In a phonograph, a casing having upstanding walls, sound reproducing means within said walls, said means comprising a pivoted amplifier having a tone arm thereon, said amplifier opening within said walls, and a hooded sound deflecting member above said amplifier but spaced from certain of said walls for the passage of sound vibrations.

1,422,454. COMBINATION ROLLING CUTTER AND SHOE-FURROW OPENER FOR CORN PLANTERS. LAMMERT H. LANGLAND, Windom, Minn. Filed Feb. 14, 1921. Serial No. 444,870. 2 Claims. (Cl. 111—85.)



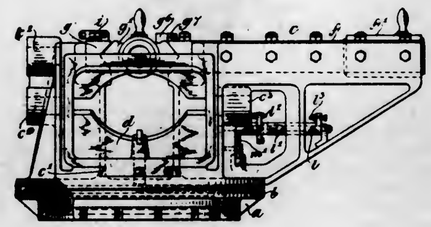
1. A corn planter attachment comprising in combination with a frame, a supporting member secured to the forward end of the frame, a boot depending from the frame, a shoe secured to the lower end of a boot and to the lower end of said support, a bearing member secured to the forward end of said support, a member having a cylindrical shank slidably and rotatably adjustable within said bearing frame, and a cutting disk journaled within said last named member.

1,422,455. WIRE-BENDING MACHINE. PHILIPP LIVA, Brooklyn, N. Y. Filed Nov. 20, 1920. Serial No. 425,430. 12 Claims. (Cl. 140—71.)



1. A wire bending and cutting device comprising in combination a base, a bending member pivotedly connected to said base adapted to swing in horizontal direction, said bending member being provided at its under-surface with an arcuated die, a lever swingably mounted on said base provided at its outer end with a cutter and at its inner end with a bender, said lever being adapted to swing in a vertical direction, an aperture formed in said base near the cutter end of said lever adapted to receive a wire to be bent, an adjustable stop member secured to said base and disposed opposite said aperture, a stationary clamping member secured to said base adapted to hold said bending member in a fixed position during the subsequent operation of said lever, and an adjustable die secured to said base near said lever and disposed on a line with said aperture.

1,422,456. BORING MACHINE. WALTER P. LOTZ, New Brunswick, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 3, 1921. Serial No. 442,185. 4 Claims. (Cl. 77—62.)



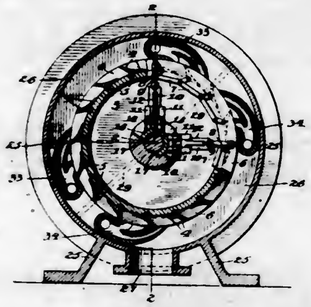
1. In a machine for boring or the like, in combination with a power shaft, a revoluble fixture, a work support on the fixture, a plurality of reciprocable cutting tools mounted on the fixture in different horizontal planes and adapted to move in paths at an angle to each other, and means to index the fixtures for connection of any one of said tools with said power shaft, as selected.

1,422,457. TROLLING LURE. THOMAS G. MCCLANAHAN, Seattle, Wash. Filed Nov. 19, 1920. Serial No. 425,062. 1 Claim. (Cl. 43—45.)



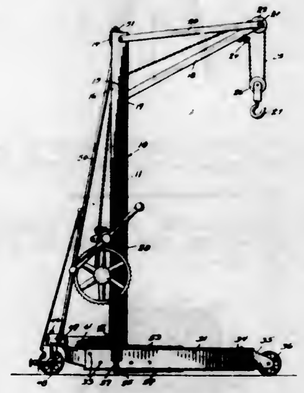
A fishing lure comprising an elongated metal body having its rear end substantially spoon shaped and its forward end substantially straight, and a longitudinal slot extending through said body along the center line forwardly from said spoon shaped portion.

1,422,458. REVERSIBLE FLUID-PRESSURE TURBINE. JOHN WM. MCGOVERN, Port Alice, British Columbia, Canada. Filed Oct. 11, 1920. Serial No. 415,982. 2 Claims. (Cl. 253—51.)



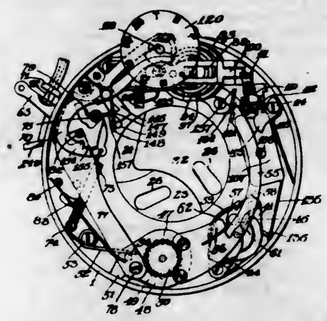
1. A reversible turbine, comprising in combination, a driving head rotatably mounted within a casing, ports angularly directed on the rim of the driving head toward one direction of rotation, ports angularly directed on the periphery of the driving head toward the other direction of rotation, means for directing a fluid under pressure to either one or the other set of ports, double vanes set at an obtuse angle to one another pivotally mounted on the periphery of the driving head at the junction of the two vanes to project one set of vanes or the other angularly toward the direction of the fluid delivery, a lever secured to the pivot of each pair of vanes and projecting angularly toward the central portion of the driving head, links connecting these levers together in groups, means applied to each group for simultaneously reversing the angle of projection of the vanes, and means for directing the flow of the fluid under pressure through the ports toward which the vanes are directed.

1,422,459. PORTABLE FLOOR CRANE. ROBERT E. MANLEY, York, Pa., assignor to The Manley Manufacturing Company, York, Pa., a Corporation of Pennsylvania. Filed July 27, 1920. Serial No. 399,384. 5 Claims. (Cl. 212—142.)



1. A hoist structure consisting of a superstructure, hoisting means carried thereby, a base for said superstructure, a tension member connecting said superstructure and said base, said base consisting of a cast metal portion in the rear of said superstructure, and rolled metal sections in front of said superstructure.

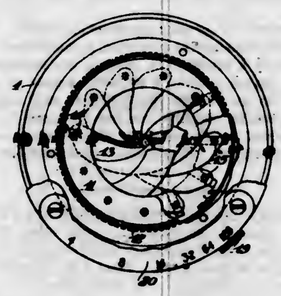
1,422,460. PHOTOGRAPHIC SHUTTER. PAUL J. MARKS, Rochester, N. Y. Filed Oct. 27, 1919. Serial No. 333,838. 79 Claims. (Cl. 95—63.)



2. In a shutter, the combination of a casing having an aperture there through, a plurality of blades movably mounted in said casing for opening and closing said aperture, each of said blades having an opening for admitting light from the margin of the aperture simultaneously with the admission of light from the center thereof during the opening and closing movements of the blades, and means for moving the blades.

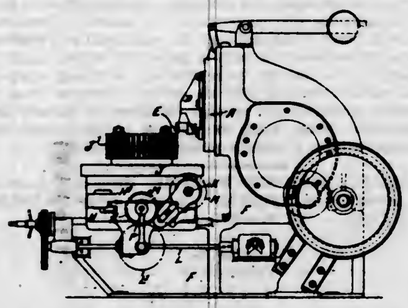
1,422,461. IRIS DIAPHRAGM. PAUL J. MARKS, Rochester, N. Y. Original application filed Oct. 27, 1919, Serial No. 333,838. Divided and this application filed Mar. 25, 1920. Serial No. 368,657. 9 Claims. (Cl. 95—64.)

1. In an iris diphragm, the combination of a casing having an aperture there through, said casing having a slot and provided with a circumferential groove in its outer wall, a diaphragm comprising a plurality of movable wings for controlling the admission of light through said aperture, a movable ring for controlling the position



of the wings, a second ring movable in the groove in the external wall of the casing, and a lug on said second ring projecting through the slot in the casing wall and operatively connected with the first mentioned ring.

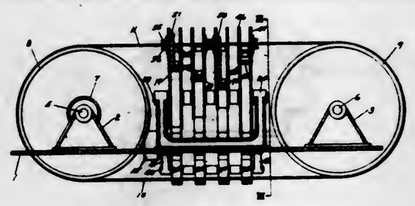
1,422,462. GEAR CUTTING, SLOTTING, AND LIKE MACHINE. JAMES HENRY MELLOY and WILLIE OWEN, Manchester, England, assignors to Wm. Muir and Company Limited, Manchester, England. Filed Feb. 19, 1920. Serial No. 359,893. 8 Claims. (Cl. 90—9.)



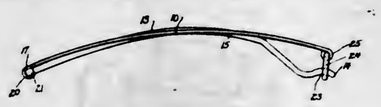
1. In a gear cutting machine, the combination with a constantly moving reciprocable cutter and a work-carrier mounted for reciprocation across the path of said cutter, of means for imparting to said work-carrier a step per stroke movement in one direction, and means for automatically imparting a quick return movement to said work-carrier after the desired complete pitch distance has been traversed, said movements occurring respectively during movement of the cutter away from and toward the work-carrier.

1,422,463. EDGER. ARNO MEREEN, Berkeley, Calif. Filed Oct. 12, 1920. Serial No. 416,350. 3 Claims. (Cl. 143—26.)

1. In a device of the class described, a band saw having a horizontal cutting run, a plurality of substantially parallel spaced endless conveyors having a path of travel beneath and substantially at right angles to said band saw, a plurality of co-axial pulleys mounted on a common shaft on each side of said band saw and traversed by said conveyors, the pulleys on the same side of the saw being of different diameters and the aligned pulleys on opposite sides being of corresponding diameters, a plurality of elongated trough-like feed boxes on one side of said band saw through which said conveyors pass, and a plurality of elongated troughlike receiving boxes on the other side of said band saws through which the conveyors pass, the receiving boxes being in alignment with the feed boxes, said feed boxes being disposed in substantially tangential relation to the pulleys on the same side of the band saw and having their bottoms in distinct horizontal planes.

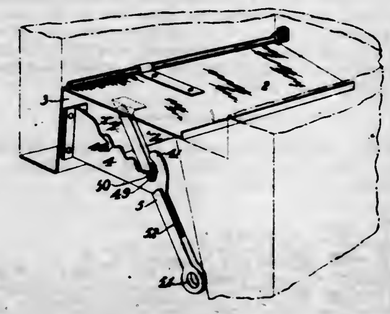


1,422,464. BARRETTE. MILTON D. MESEROLE, Milford, Conn., assignor to Hayes & Meserole Mfg. Co., New Haven, Conn., a Firm composed of said Meserole and George M. Hayes. Filed Nov. 10, 1921. Serial No. 514,232. 6 Claims. (Cl. 132—48.)



1. A barrette, including a bar formed with an opening, a pin hinged to one end of the bar and offset at its opposite end, and a loop hinged to the bar and adapted to engage with the point of the pin.

1,422,465. FIREPLACE DAMPER. GLENN A. MORRELL, Seattle, Wash., assignor of one-half to Charles W. Rodgers, Seattle, Wash. Filed Jan. 18, 1922. Serial No. 530,034. 6 Claims. (Cl. 126—288.)

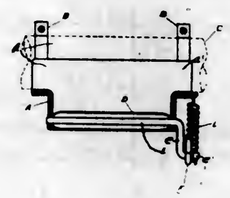


1. A fireplace damper comprising a hinged damper plate, a fixed ratchet bar and an arm hinged to the damper plate outwardly from its pivot and adapted to engage the ratchet bar to hold the damper in raised positions.

1,422,466. MUFFLER CUT-OUT. JOHN MOTT MORSE, Syracuse, N. Y. Filed Feb. 28, 1919. Serial No. 279,903. 1 Claim. (Cl. 251—11.)

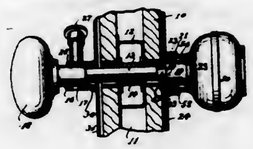
A muffler cutout comprising a body formed with an elongated base, and an oblong box-like portion projecting from the base and extending lengthwise of the same and confining an oblong outlet passage, the base being shaped to seat on a cylindrical exhaust pipe and to extend beyond the ends of the box-like portion, whereby the box-

like portion and the outlet passage extends lengthwise of the exhaust pipe, a damper arranged in the box-like portion, a rock shaft arranged in the box-like portion and the outlet passage extending longitudinally of the box-like



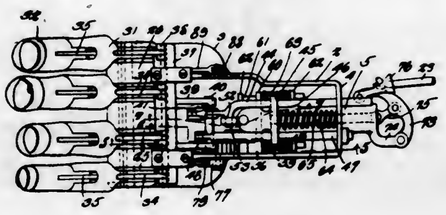
portion and also lengthwise of the damper, clamping means coacting with the projecting end portions of the base for holding the body onto the exhaust pipe and means at the end of the rock shaft for operating said rock shaft, substantially as and for the purpose described.

1,422,467. DOORKNOB LOCK. JOHN NELSON, Bridgeport, Conn. Filed Sept. 13, 1921. Serial No. 500,426. 3 Claims. (Cl. 70—91.)



1. In a lock mechanism of the character described, the combination of a knob spindle for operating a latch bolt, knobs mounted on the opposite ends of said spindle, a lock mechanism contained in one of said knobs including a casing, a sleeve extending into and forming a part of the knob shank, a lock mechanism contained within the casing and including a rotatable key cylinder, an adjustable collar mounted upon the other end of the spindle, and adapted to be set in or out to position the spindle in or out, and means for engagement with the outer knob to prevent its turning when the said spindle and knobs are in their inner position.

1,422,468. ARTIFICIAL ARM. PETER NICOLA, Danville, Pa. Filed May 23, 1922. Serial No. 563,088. 8 Claims. (Cl. 3—12.)

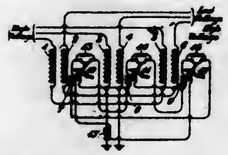


1. In an artificial arm a hand portion including a body, a shaft mounted for rotation, jointed fingers and a jointed thumb operatively connected to said shaft for movement toward or from each other, separate pivotally mounted members for rotating the shaft in opposite directions respectively, a cross head, means for actuating the cross head, and separate means operated by successive movements of the cross head in one direction for actuating the respective pivoted members.

1,422,469. METHOD OF PRODUCING MOLDED ARTICLES OF PURE CELLULOSE. MAURICE G. OLIVIER, Paris, France, assignor to Societe Francaise de Crins Artificiels, Paris, France, a French Corporation. Filed Mar. 31, 1920. Serial No. 370,184. 2 Claims. (Cl. 18—56.)

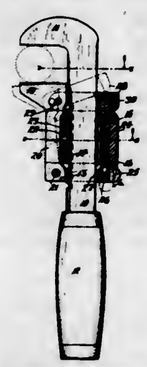
1. The method of producing molded articles of pure cellulose which consists in applying a moistened sheet of pure cellulose to a metal core, raising the temperature of the cellulose coated core to a suitable degree in a heated drying room so as to dry the cellulose and expand the core, and thereafter rapidly cooling the core to cause a shrinkage thereof so as to enable the cellulose article to be freely withdrawn therefrom, substantially as described.

1,422,470. INDUCTIVE-INTERFERENCE-SUPPRESSION DEVICE. HAROLD S. OSBORNE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 3, 1920. Serial No. 400,922. 9 Claims. (Cl. 175—294.)



1. In a power transmission system, the combination of a high tension circuit, a low tension circuit, a transformer having main and auxiliary windings, the said main windings being star-connected with a conductor from each neutral point to ground and the said auxiliary windings being delta-connected with a protective device connected therewith, to limit the current in said auxiliary windings, and means connected with the ground conductor from the neutral point of the primary windings to operate said protective device when the current in the ground conductor reaches a certain predetermined value.

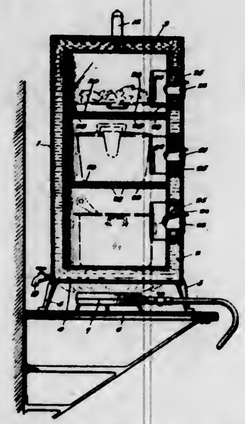
1,422,471. COMBINED WRENCH. GEORGE T. PARSLEY, Ashland, Oreg. Filed Mar. 5, 1919. Serial No. 280,739. 6 Claims. (Cl. 81—157.)



1. An adjustable wrench comprising a shank having a right angled arm, constituting a fixed jaw, and screw threads on the corresponding side of the shank, a cylindrical nut of larger interior diameter enclosing the shank and having threads engageable with those of the shank, a U-shaped frame, the side arms of which extend across the shank sides and between which the nut is turnable, a movable jaw fulcrumed between the open sides of the frame and coacting with the fixed jaw, a yoke fulcrumed to said movable jaw, and turnable to lock upon the frame, and maintain the movable jaw in parallelism with the

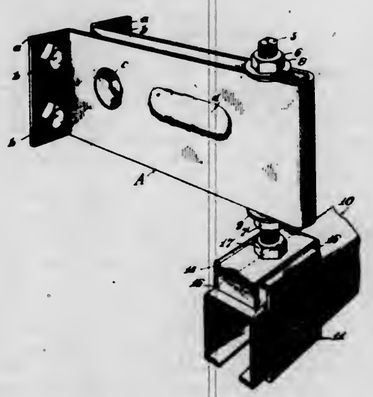
fixed jaw, and a spring between the back of the shank and the interior of the nut, to maintain the screw threads in engagement.

1,422,472. COOKER AND BOILER. WILLIAM A. PENROD, Dayton, Ohio. Filed June 10, 1920. Serial No. 387,893. 2 Claims. (Cl. 126—20.)



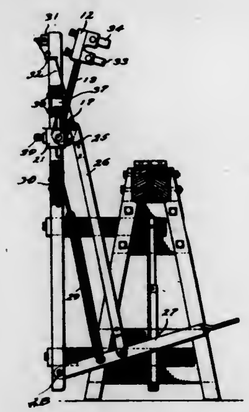
1. In an apparatus for the purpose set forth, a double walled cylinder, spaced annular ledges around the inner wall of said cylinder, removable partitions consisting of a plurality of mating sheet metal members for each of said ledges and adapted to rest thereupon and dividing the interior of the cylinder into a plurality of compartments, heat resisting members having the same size and shape as said sheet metal members and adapted to rest thereupon, encased entrance openings being provided in the inner and outer walls of said cylinder, doors for said openings, said doors having recesses filled with heat resisting material, and a damper on each of said doors, said sheet metal members and said heat resisting members being of a size to pass through said entrance openings.

1,422,473. MEANS FOR SECURING OVERHEAD TRACKS IN PLACE. ELLIS J. G. PHILLIPS, Aurora, Ill., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed Nov. 10, 1921. Serial No. 514,251. 5 Claims. (Cl. 104—111.)



1. The combination with an overhead track and means for supporting it in place, said means comprising a bracket extending over and partially beneath the track, of a pressure member overlying the upper wall of said bracket and resting upon the track, and means for forcing said member firmly down against said track.

1,422,474. STAMP. ORIEN BYRON PICKERING, Endicott, N. Y. Filed Oct. 26, 1921. Serial No. 510,558. 6 Claims. (Cl. 101—3.)



6. In a device of the character described, a vertical standard, a bracket slidably engaging the standard, means for releasably locking the bracket to the standard in adjusted positions therealong, a holder pivotally supported upon said bracket and having a tubular portion extending laterally thereof, and a hammer having a handle held at one end in the tubular portion of said holder and being provided at its other end with a head adapted to hold a die.

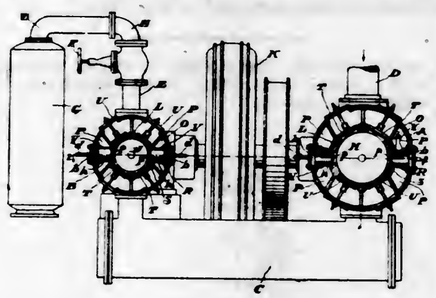
1,422,475. DISTILLING PROCESS. FRITZ POLLAK, Vienna, Austria. Filed May 1, 1920. Serial No. 378,244. 10 Claims. (Cl. 260—138.)

3. The described distilling process which consists in heating a volatile liquid wherein volatile substances are dissolved in small portions to a temperature exceeding the vaporization point of the least volatile constituent and in then condensing the escaping vapors whereby a distillate is obtained, each portion of which contains the same components, no matter what vaporization points the individual constituents of the mixture under treatment may have.

1,422,476. CLEARANCE VALVE FOR COMPRESSORS. WILLIAM PRELLWITZ, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 21, 1921. Serial No. 463,196. 2 Claims. (Cl. 230—24.)

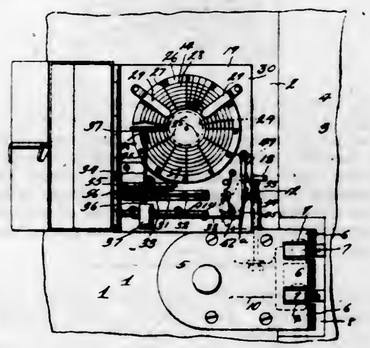
1. In a compressor, a compressor cylinder formed with inner and outer walls having a clearance pocket between them and aligned openings in the walls, a cylindrical valve guide extending inwardly from the opening in the outer wall, said guide having a differential bore and a cover for its outer end, means for admitting pressure from an external source to the outer end of said guide, a cylindrical differential clearance valve of the poppet type movable within said guide and adapted to cooperate with a seat at the said opening in the inner wall of the cylinder, the larger outer pressure area of the valve being subject to said external pressure tending to maintain the valve closed against variable pressure upon the smaller inner

pressure area changing with the stroke of the compressor tending to open the valve, whereby the passage of



fluid from the cylinder to the clearance pocket is controlled in accordance with the load of the compressor at substantially constant compressor speed.

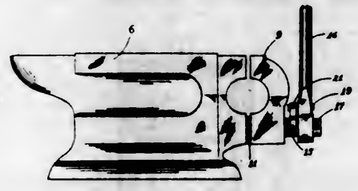
1,422,477. TIME RECORDER. GEORGE PULLMAN, New York, N. Y. Filed Apr. 5, 1921. Serial No. 458,797. 5 Claims. (Cl. 234—1.)



2. A time recording device comprising a casing, a time controlled movable disc carried by said casing, a vertically disposed and horizontally pivoted recording arm carried by the casing, the upper end of said recording arm being provided with a piercing member adapted to cooperate with the time controlled movable disc, a horizontally disposed longitudinally and outwardly movable plate carried by the casing and cooperating with the recording arm for forcing the piercing member carried thereby inwardly, said recording arm being longitudinally movable, a hinged and spring actuated horizontally disposed lug plate carried by the casing, said lug plate being so positioned that the recording arm may be disposed between any of its lugs, and means for actuating the horizontally disposed longitudinally and outwardly movable plate.

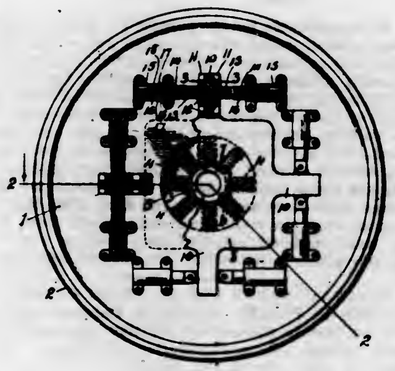
1,422,478. HANDLE FOR BLACKSMITHS' VISES. GORDON REES, East New Annan, Nova Scotia, Canada. Filed June 11, 1921. Serial No. 476,815. 3 Claims. (Cl. 81—33.)

1. A vise comprising a fixed jaw, a movable jaw connected to said fixed jaw, said fixed jaw formed with a bore and counter bore, an extension formed on said movable jaw and adapted for location within said counter bore, a shaft extending through said movable jaw and extension, said shaft having a toothed section extending through the said bore, a pinion fixedly secured to said shaft, an operating lever loosely mounted on said shaft, a pawl member pivotally connected to said lever and



said pawl member adapted for engagement with said pinion when the said lever is reciprocated in either direction to advance or retract the said movable jaw with respect to said fixed jaw.

1,422,479. VEHICLE WHEEL. NEAL MOORE ROBINSON, Kansas City, Kans. Filed June 21, 1920. Serial No. 390,493. 1 Claim. (Cl. 152—45.)

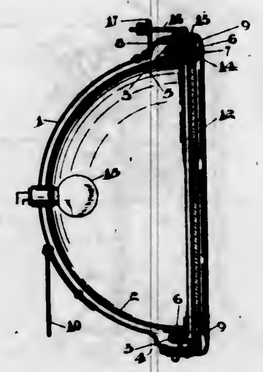


In a vehicle wheel, a body adapted to support a tire, a radially movable hub, resilient means supported by the body and supporting the hub, a driving member mounted on and rotatable with the hub and provided with radial arms, each of which is provided with radial dove-tail grooves on its opposite sides respectively, members respectively slidably fitted in said grooves, bearing members respectively fastened to said slidable members, bearing members secured to said body and respectively slidably engaging the first named bearing members, and compression springs interposed between said pairs of bearing members respectively, the bearing members which are attached to said slidable members being movable tangentially, substantially as set forth.

1,422,480. VEHICLE-LICENSE-NUMBER HOLDER AND ILLUMINATOR. JOHN ELMER RUTHERFORD, Toronto, Ontario, Canada. Filed Sept. 16, 1921. Serial No. 501,180. 7 Claims. (Cl. 40—132.)

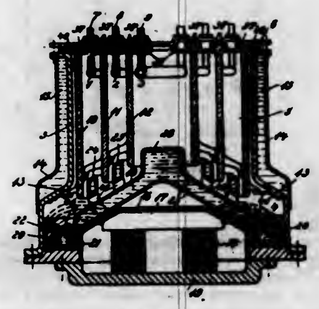
2. In a license number holder and illuminator, an outer open fronted casing; an inner reflector member having its edges substantially paralleling the front edges of the casing; a rim member secured to the edges of the casing and reflector and holding them in spaced relationship and

provided with an outwardly facing seat; a felt covering for said seat having its edges held in position between



parts of the rim casing and reflector; and a transparency holder provided with a flange fitting over the rim and casing.

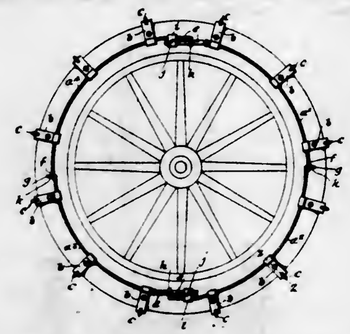
1,422,481. ELECTRIC VACUUM APPARATUS. MORITZ SCHENKEL and JOSEPH JÜST, Charlottenburg, near Berlin, Germany, assignors to Siemens-Schuckert-Werke G. m. b. H., Berlin, Germany, a Corporation of Germany. Filed Aug. 12, 1916, Serial No. 114,644. Renewed Aug. 27, 1920. Serial No. 406,500. 18 Claims. (Cl. 175—354.)



1. In an electric vacuum apparatus the combination with a container and a cathode therein, of a plurality of concentric annular anodes mounted in the container and having different annular diameters and insulating partitions separating said anodes from each other.

1,422,482. FASTENING DEVICE. HERMAN F. C. SCHULTZ and FRED W. SCHULTZ, Youngstown, Ohio. Filed Apr. 12, 1921. Serial No. 460,672. 2 Claims. (Cl. 24—206.)

1. In a device of the character described, a separable fastener, one element of which has a flattened portion provided with a series of notches, the other element carrying



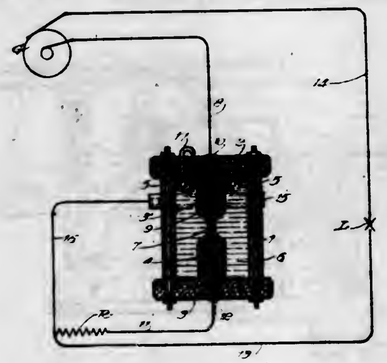
a loop bent at substantially right angles, and a link slidably mounted upon said second element.

1,422,483. PLASTIC COMPOSITION. EARLE E. SCHUMACHER, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 30, 1920. Serial No. 427,395. 1 Claim. (Cl. 106—34.)

A plastic composition of approximately the following composition:

Glycerin—4 parts.
Plaster of Paris—10 parts.
Water—1¼ parts.

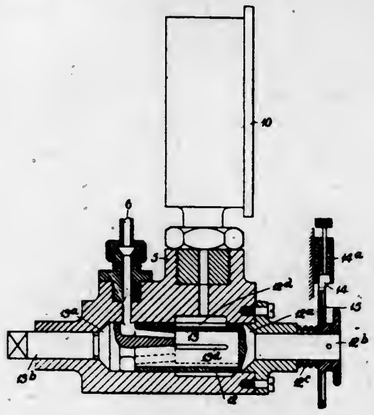
1,422,484. MEANS FOR CONTROLLING AND MEASURING A CURRENT FLOWING IN AN ALTERNATING-CURRENT CIRCUIT. EDMUND O. SCHWEITZER, Chicago, Ill. Filed Feb. 13, 1919. Serial No. 276,766. 10 Claims. (Cl. 171—266.)



1. The combination with an alternating current circuit, of a measured electrode connected in series therewith, electrolyte in which said electrode is immersed, a container for said electrolyte comprising a cylindrical carbon electrode and means for shunting a part of the current flowing in said circuit through said measured electrode, electrolyte, and carbon electrode at a rate insufficient to cause the formation of gas at said electrodes.

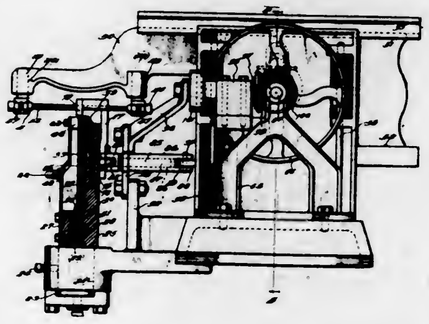
8. The combination with an alternating current circuit, of a measured electrode connected in series with said circuit and means for disintegrating said electrode at a rate proportional to the flow of current in said circuit comprising a single cell of which said measured electrode forms an electrode.

1,422,485. POWER INDICATOR FOR INTERNAL-COMBUSTION ENGINES. HARRY SHEPHARD, Coventry, England. Filed Oct. 12, 1920. Serial No. 416,546. 7 Claims. (Cl. 73—185.)



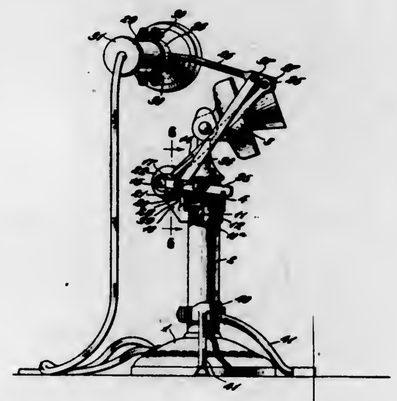
1. Power indicator for internal combustion engines comprising a pressure gauge, a fitting adapted for open communication with the interior of the engine cylinder a U-tube containing a semi-viscous liquid and having the two limbs thereof connected up respectively with the gauge and fitting, and means incorporated with said U-tube whereby pressure communication between the gauge and the engine cylinder through the U-tube may be momentarily established at any desired point in the stroke of the engine piston.

1,422,486. SAW-FILING MACHINE. LUDLOW S. SHERWOOD, Chicago, Ill. Filed July 6, 1920. Serial No. 394,137. 20 Claims. (Cl. 76—35.)



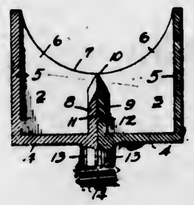
1. In a saw-sharpening machine, the combination of a device for supporting a saw to be sharpened, a sharpening device extending at an angle to the saw, means for producing relative movement between said devices in a path crosswise of the plane in which the saw extends to perform the sharpening operation, said first-named device being adjustable to vary the angle at which the saw extends relative to said sharpening device, and means operating, when actuated, to feed the saw along said first-named device, said last-named means being operatively connected with said first-named device and movable therewith in the adjustment of the latter.

1,422,487. TELEPHONE ATTACHMENT. THOMAS W. SMALL, Cleveland, Ohio. Filed May 19, 1919. Serial No. 298,027. 3 Claims. (Cl. 179—149.)



1. In a telephone attachment of the character set forth, the combination of a bracket secured to the telephone, a receiver supporting arm pivoted to the bracket, and adapted to be swung in a vertical plane from a position forward of the telephone to a position rearwardly thereof, a finger extending across the receiver hook and pivotally supported to the rear thereof, and a link directly connecting parts of the receiver supporting arm and the aforesaid finger adjacent their pivots.

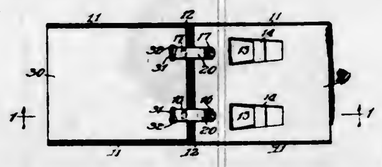
1,422,488. DENTAL IMPRESSION TRAY. ERNEST ROBERT SMITH, San Francisco, Calif. Filed Nov. 3, 1921. Serial No. 512,578. 8 Claims. (Cl. 32—6.)



1. A dental device consisting of a divided, impression-taking tray, a split post perpendicular to and on the bottom of the tray and means for clamping the tray sections together and being detachably carried by the tray while it is applied, and consisting of a nut mounted on said post and jamming against the tray bottom.

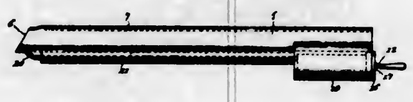
1,422,489. MEMORANDUM-PAD STAND AND PAD SHEETS. GEORGE W. SMITH, Chicago, Ill. Filed Sept. 13, 1920. Serial No. 409,972. 8 Claims. (Cl. 129—1.)

1. In a memorandum pad stand, the combination of a base, a substantially U-shaped spring member for holding pad leaves, the spring member being formed of strip material and the legs thereof being adapted to spring apart from their normal operative relative positions, the free ends of the spring member being formed to rest firmly upon the base to provide a stable support, each end portion of the spring member having a locking aperture, and a pair of spaced-apart locking projections carried by the base, the projections being adapted to enter said apertures respectively when the spring legs are forced toward each other slightly beyond their normal operative relative positions.



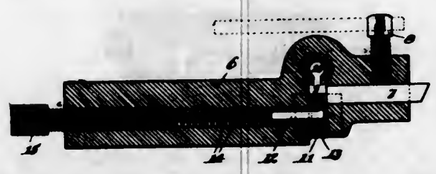
4. A memorandum pad sheet having a pair of spaced-apart holes each adapted to receive loosely a sheet-holding member in strip form having a width substantially the length of the hole in the sheet, said holes being relatively long and narrow throughout a considerable portion of their extent with their longitudinal axes in line with each other, the long and narrow portion of each hole terminating in an enlarged portion at one end only thereof.

1,422,490. VETERINARY SURGICAL INSTRUMENT. OTTO STADER, Oconomowoc, Wis. Filed Mar. 26, 1921. Serial No. 455,742. 4 Claims. (Cl. 128—234.)



1. An instrument of the character described comprising a sight tube, means carried by said tube and communicating therewith adjacent one of its ends to receive animal semen, and additional means carried by the tube for maintaining the semen substantially at its original temperature.

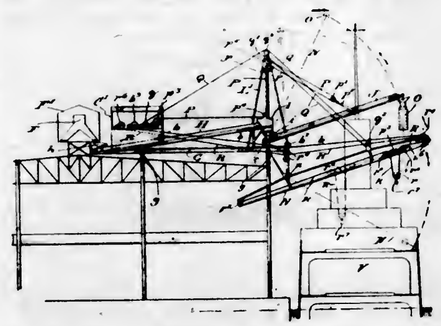
1,422,491. TOOL HOLDER. GUSTAV H. STAHL, Menomonie, Wis., assignor to Progress Manufacturing Company, a Copartnership consisting of Gustav H. Stahl and Richard Goerner, Erie, Pa. Filed Oct. 24, 1918, Serial No. 259,580. Renewed Nov. 12, 1921. Serial No. 514,827. 7 Claims. (Cl. 29—96.)



1. A construction of the class described comprising a holder bar; a tool socket at one end of said bar, there being a notch in said bar to give resiliency thereto; and a spring-held plunger in said bar spanning said notch substantially as described.

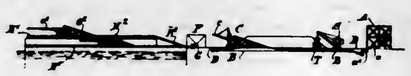
1,422,492. CONVEYER. FRANCIS LEE STUART, New York, N. Y. Filed June 18, 1920. Serial No. 389,878. 13 Claims. (Cl. 198—88.)

1. The combination with a pier shed having a roof, of a supply conveyer mounted on the roof of the shed, a transfer conveyer receiving material from the supply conveyer, a carriage movable along the roof and on which



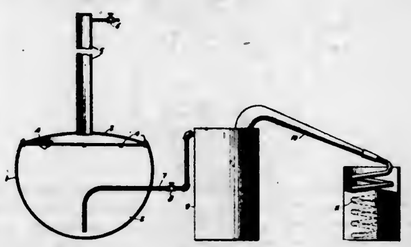
said transfer conveyer is supported, and means associated with said transfer conveyer for delivering material to a vessel adjacent the shed.

1,422,493. SYSTEM OF CONVEYING AND DELIVERING MATERIAL TO CARRIERS. FRANCIS LEE STUART, New York, N. Y. Filed Feb. 17, 1921. Serial No. 445,606. 8 Claims. (Cl. 214—14.)



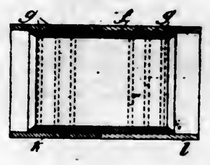
8. A system for handling material, comprising a source of material supply, a plurality of conveyers arranged in a group, a series of loading machines associated with said conveyers and movable from place to place while in operative relation with said conveyers and without interference with each other or with other machines, and means for delivering material on each side of the group from one or more of the inner machines of the group.

1,422,494. METHOD OF MANUFACTURING DIPHENYLAMINE. ARTHUR P. TANBERG, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed May 31, 1917. Serial No. 172,054. 19 Claims. (Cl. 260—128.)



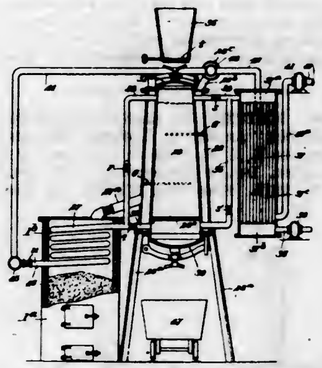
1. The process which comprises condensing aniline to diphenylamine by the presence of a substance containing chlorine, the proportion of chlorine-containing substance being such as to enable it to function only as a catalyser.

1,422,495. **REPAIRING PATCH FOR PNEUMATIC TIRES.** ALFRED THIELE, Magdeburg, Germany, assignor to Firm of Emmy-Thiele, Berlin, Germany. Filed June 10, 1919. Serial No. 303,216. 1 Claim. (Cl. 152—24.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A patch for rubber tires, tubes and the like, having a series of juxtaposed, wide and deep grooves provided in the face thereof which is to be applied to the tire and having the central portion of its said face left plane, said grooves being in the form of concentric, closed curves which are spaced from one another and which have sharp or abrupt edges throughout their entire extent; whereby when the grooved face of the patch is coated with an adhesive substance and is applied to the tire, the application of pressure upon the patch along the grooved portion thereof will expel the air and most of the adhesive from said grooves and will force the air out from between the patch and the tire so as to create vacuua in said grooves, and the adhesive substance will prevent the re-entry of air into said grooves, so that the patch will be held uniformly and evenly against the tire by the pressure of the atmospheric air during the setting of the adhesive substance.

1,422,496. **PROCESS FOR DISTILLING CARBONACEOUS MATERIAL.** WALTER THOMAS, Nanaimo, British Columbia, Canada. Filed June 8, 1916. Serial No. 102,552. 2 Claims. (Cl. 202—8.)



1. The process of distilling fuel material containing sulphur in a vertical retort and obtaining pure liquid distillate products and desulphurized smokeless fuel, which consists in heating purified gas to the required temperature and forcing it alternately at different points one above the other, into a body of material for more quickly and uniformly effecting distillation of the whole body by direct internal heat, and carrying off the resulting volatile products by such gas and condensing the products to obtain pure distillate liquids.

1,422,497. **PIN-TUMBLER LOCK.** FRANK E. THOMPSON, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 2, 1921. Serial No. 497,894. 4 Claims. (Cl. 70—47.)



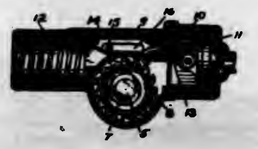
1. As a new article of manufacture, a tumbler lock the plug of which is provided with a plurality of hardened steel pins arranged at an angle to the axis of the plug at opposite sides of the key slot and partly within the plane of the tumblers.

1,422,498. **CAMPING TRAILER.** WILLIAM J. VINT, Stockton, Calif. Filed Oct. 25, 1920. Serial No. 419,195. 4 Claims. (Cl. 296—23.)



1. In a camping trailer, an interior compartment having an entranceway at one end of the trailer, wash tubs normally positioned within the compartment, and means whereby the tubs may be moved outwardly through the entranceway at will while still being supported from the compartment.

1,422,499. **AUTOMATIC SLACK ADJUSTER.** HENRY A. WAHLERT, St. Louis, and JOHN E. REDFORD, Kinloch Park, Mo., assignors to The American Brake Company, St. Louis, Mo., a Corporation of Missouri. Filed June 30, 1920. Serial No. 392,949. 3 Claims. (Cl. 188—203.)

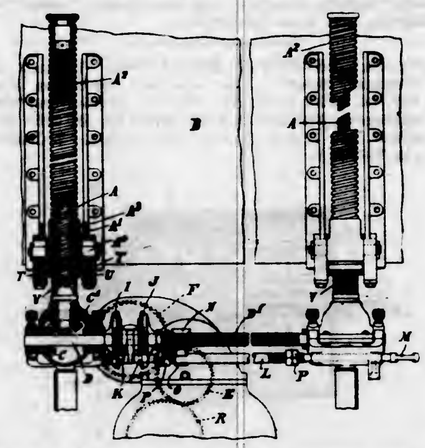


3. In a brake slack adjuster, the combination with a casing, a ratchet wheel mounted in said casing, and a pawl for operating the ratchet wheel, of a piston subject on one side to fluid under pressure and operatively connected to said pawl, a spring for opposing the fluid pressure on said piston, a member carried by said piston and provided with an elongated guide slot, and a guide pin secured to said casing and engaging in said slot.

1,422,500. **MOTOR TIP WAGON.** EDWIN ROBERT WALKER, Wigan, England, assignor to Walker Brothers (Wigan) Limited, Wigan, England. Filed Nov. 5, 1919. Serial No. 335,802. 2 Claims. (Cl. 298—21.)

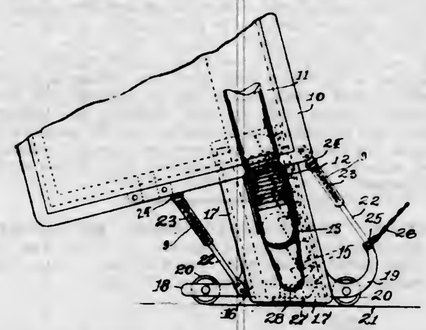
1. In a motor vehicle having a body adapted to be tipped by the power of the engine, a tipping arrangement

comprising a screw mechanism for raising and lowering the vehicle body, a trunnion connection between the vehicle body and the screw mechanism, a shaft disposed across the end of said body for driving the screw mechanism, a pair of toothed gears loose on said shaft adapted to be driven from the engine, a clutch for locking one or



the other of said gears in driving connection with the cross shaft, an axially slidable clutch rod mounted parallel with the cross shaft, and a nut capable of travelling on the cross shaft to move the clutch rod axially when the vehicle body has reached its appointed limits of travel so as to automatically throw the clutch into neutral position and stop the drive of the cross shaft.

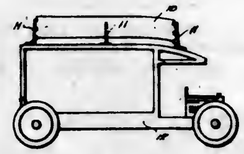
1,422,501. **STREET SWEEPER.** EDWARD K. WARD and PIER C. WARD, St. Paul, Minn. Filed Oct. 6, 1919. Serial No. 328,856. 2 Claims. (Cl. 15—11.)



1. In a vacuum street sweeper a rigid frame, a second frame movable laterally beneath said rigid frame, articulated and telescopic means connecting the forward and rearward ends of said movable frame with said rigid frame, a housing carried by said movable frame and having an opening adjacent to the surface of the street, a flexible conduit connecting said housing with the suction pipe of said sweeper, frictional cleaning means within the opening in said housing and means for supporting and for guiding said movable frame horizontally.

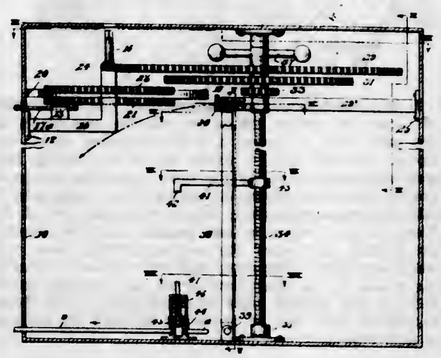
1,422,502. **SIGN AND ITS SUPPORTS.** WILLIAM J. WARK, Salem, Ohio. Filed Sept. 12, 1921. Serial No. 500,086. 2 Claims. (Cl. 40—125.)

1. A sign consisting of a panel and supporting brackets for the panel, each of said brackets having a base piece including a flat apertured portion and a vertically disposed wing, and an upright arm having laterally spaced



lugs in pairs in its length and having spaced ears at its lower end straddling and pivoted to the said wing of the base.

1,422,503. **AEROPLANE CONTROL.** PIOTR WARMINSKI, Baltimore, Md. Filed Dec. 22, 1921. Serial No. 524,054. 2 Claims. (Cl. 244—1.)



1. Means for controlling the flow of fluid comprising a fluid pipe, a controlling valve therefor, motor operated means to stop the flow of fluid including a gearing train, a screw shaft rotated thereby, a valve actuating arm threaded on said shaft rotated thereby, a valve actuating arm threaded on said shaft adapted to be moved into engagement with the valve, and a slotted guide for the valve actuating arm to prevent rotary movement of the arm relative to the screw shaft, said slotted guide being movable relative to said arm to permit the arm to be moved relative to the screw shaft whereby the same may be initially set in the desired position on the screw shaft.

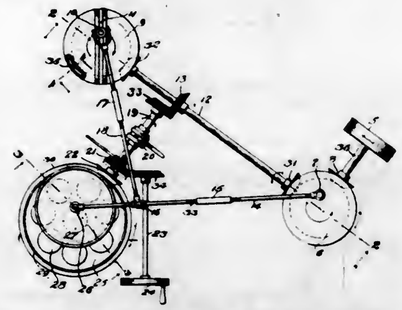
1,422,504. **LATCH.** THOMAS A. WATTS, Springfield, Ohio, assignor to The Springfield Metallic Casket Company, Springfield, Ohio, a Corporation of Ohio. Filed Jan. 10, 1921. Serial No. 436,265. 4 Claims. (Cl. 292—228.)



1. In a device of the character described, a plate, a housing secured thereto, a latch partly located in said housing, and a flat spring in said housing bearing on

said latch and also having a bearing point on one wall of the housing and also on said plate to provide for supporting the same.

1,422,505. GRINDING AND LAPPING MACHINE. FLOYD CALVIN WEAVER, Washington, D. C. Filed Nov. 11, 1920. Serial No. 423,371. 10 Claims. (Cl. 51—132.)

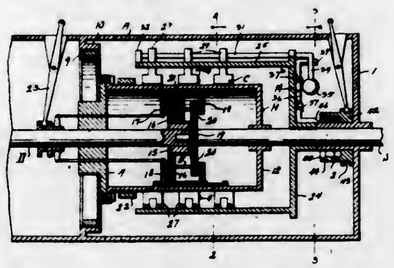


1. In a machine of the class described, the combination of a pair of plates, means for rotating said plates at the same rate of speed, a work supporting plate contiguous to said pair of plates, means for driving said work-supporting plate at the same speed the first-mentioned plates are driven, a lapping plate contiguous to said work-supporting plate, means connecting one of the first-mentioned plates to said lapping plate for moving the lapping plate over the work-supporting plate, and means adjustably connecting said just-mentioned connecting means to the other plate of the pair whereby movement of the lapping plate with reference to the work-supporting plate will be controlled through the medium of said first mentioned plate.

1,422,506. PROCESS OF MAKING DIPHENYLGUANIDINE. MORRIS L. WEISS, Brooklyn, N. Y., assignor to Dovan Chemical Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 2, 1921. Serial No. 482,143. 10 Claims. (Cl. 260—125.)

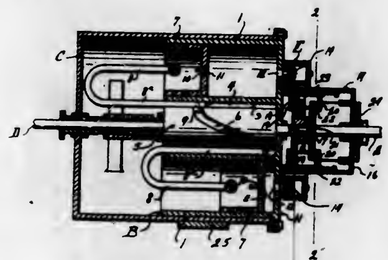
10. In a process of making diphenylguanidine containing as a reaction impurity carbodiphenylimide, the steps which comprise dissolving the same in hot toluol, cooling, and then washing the crystals thus formed with pure toluol, and then drying.

1,422,507. POWER-TRANSMISSION MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed Nov. 20, 1920, Serial No. 425,463. Renewed Jan. 7, 1922. Serial No. 527,762. 9 Claims. (Cl. 74—34.)



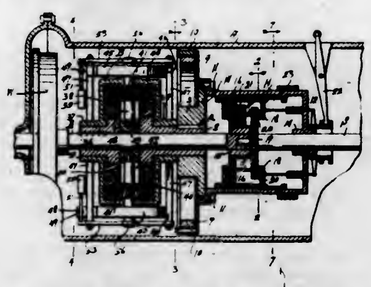
1. In a transmission mechanism, a driving shaft, a driven shaft, means operatively connecting said shafts including a member constituting a drum, said member being loosely mounted on both of said shafts, a gear assembly carried by the member and coacting with said shafts, a clutching unit carried by one of the shafts and coacting with the drum, means operable under the influence of centrifugal force for adjusting the clutching element into frictional engagement with the drum, and means directly engaging said last named means for rendering the same inoperative.

1,422,508. REVERSING MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Original application filed Feb. 24, 1920, Serial No. 360,955. Divided and this application filed Aug. 9, 1920, Serial No. 402,080. Renewed Jan. 7, 1922. Serial No. 527,763. 3 Claims. (Cl. 74—34.)



1. A mechanism of the class described comprising, in combination, a driving shaft, a driven shaft, means operatively connecting said shafts, said means including a casing mounted upon the driving shafts, said casing and the driving shaft being capable of relative independent rotation, a housing carried by the casing into which the driving shaft extends, a gear fixed to the portion of the driving shaft within the housing, the driven shaft also extending within the housing, a gear fixed to said portion of the driven shaft, a carriage mounted for sliding movement within the housing in a direction longitudinally of the driving and driven shafts, unitary gears carried by the carriage, one of said gears being constantly in mesh with the gear of the driving shaft, a second gear of said unitary gears meshing with the gear of the driven shaft when the carriage is in one position, and a gear carried by the carriage and constantly in mesh with the first named of the unitary gears, said last named gear meshing with the gear of the driven shaft when the carriage is in a second position and whereby the direction of rotation of the driven shaft is reversed.

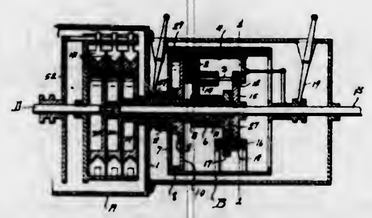
1,422,509. POWER-TRANSMISSION MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed Aug. 7, 1920, Serial No. 401,892. Renewed Jan. 7, 1922. Serial No. 527,764. 7 Claims. (Cl. 74—34.)



1. In a transmission mechanism, a driving shaft, a driven shaft, and means operatively connecting said shafts

including a member loosely mounted on both of the shafts, a gear assembly carried by the member and coacting with the shafts, a gear carried by said member and concentric to the driving shaft, a gear fixed to the driving shaft, an element having rotary movement around the driven shaft independently thereof, an idle gear carried by said element and in driven connection with both of the last named gears, and clutching means carried by said element and coacting with the idle gear to retard the rotation of said idle gear about its axis.

1,422,510. TRANSMISSION MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed Dec. 31, 1920, Serial No. 434,256. Renewed Jan. 7, 1922. Serial No. 527,765. 2 Claims. (Cl. 74—34.)



1. A transmission mechanism including a drive shaft, a driven shaft, a gear fixed on the driven shaft, a sleeve surrounding the driven shaft and provided with a gear, a gear assembly operatively connecting the gear of the sleeve and the gear of the driven shaft, a second sleeve surrounding the first sleeve and provided with a gear, a gear assembly operatively connecting the gear of the second sleeve and the gear of the driven shaft, coacting clutch mechanisms carried by the drive shaft and the driven shaft and each of the sleeves, a member supported for rotation around the driven shaft and carrying the gear assemblies, and means for locking said member against rotation, one of said gear assemblies being supported for movement in a direction lengthwise of the driven shaft and including reversely rotating gears, one of said gears meshing with the gear of the driven shaft when said assembly is in one position and the second of said gears meshing with the gear of the driven shaft when said assembly is in a second position.

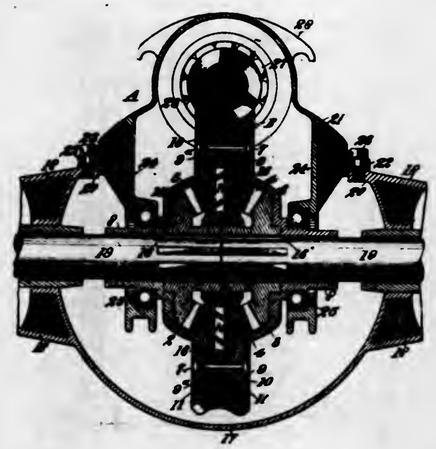
1,422,511. SPRING HEEL. EDWARD L. WHITE, Brooklyn, N. Y. Filed July 13, 1921. Serial No. 484,358. 4 Claims. (Cl. 36—37.)



1. A spring heel including a heel plate, a coil spring secured to the bottom of the heel plate, and means for adjusting the tension of the spring comprising a clip pivoted to the bottom of the heel plate, the free end of the clip being movable along the spring.

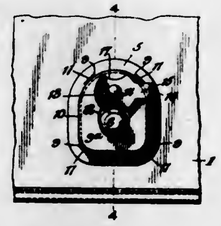
1,422,512. BRONZE WORM-GEAR MOUNTING. JOHN W. WHITE, Jr., Oakland, Calif. Filed May 28, 1919. Serial No. 300,299. 6 Claims. (Cl. 74—99.)

1. The combination with a two-piece differential housing, of an annular flange carried by each section of said housing, and an annular seat member formed on each flange and of a diameter less than the same, of a ring gear adapted to be received by said seat and embraced by the said flanges, a series of spline members formed on the circumferential edge of one of the flange members,



and recesses formed in the side of the ring gear similar in number and location to the spline members for the reception thereof to secure the ring gear from circumferential movement about the housing.

1,422,513. VEHICLE CURTAIN FASTENER. CLARENCE S. APPLAS, Sacramento, Calif. Filed Mar. 10, 1921. Serial No. 451,415. 1 Claim. (Cl. 24—211.)

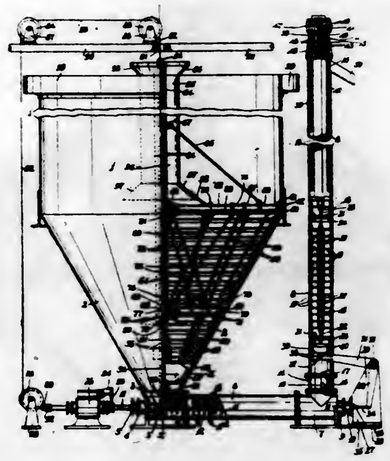


In combination with a headed post or stud secured to a fixed part, a flanged plate secured to a movable part and provided with an opening for the passage of said post, a disk pivoted on the flanged plate and provided with an operating arm for rotating the disk, said disk having its peripheral edge normally engaging the post to prevent separation of the flanged plate from the post, and having a cut-out portion adapted to aline with the post to permit separation of the parts, the free end of the operating arm engaging the flanged portion of the plate for either locking the disk in engaging or releasing position with the post.

1,422,514. APPARATUS FOR SEPARATING THE LIQUID AND SOLID COMPONENTS OF MIXTURES OF LIQUIDS AND CRUSHED OR GROUND ORE PRODUCTS. ALEXANDER JOHN ARBUCKLE, Johannesburg, Transvaal, South Africa. Filed Dec. 30, 1921. Serial No. 525,995. 17 Claims. (Cl. 210—55.)

1. Apparatus for separating the liquid and solid components of mixtures of liquids and crushed or ground ore

products, comprising, in combination, a settling vessel, and means for removing the settled solids therefrom including a casing, which is in communication with the bot-



tom of the vessel, a rod adapted to be reciprocated in said casing, and plates having openings and arranged upon and spaced apart along the length of said rod.

1,422,515. PIN-TUMBLER LOCK. PETER F. AUGENBRAUN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 2, 1921. Serial No. 497,896. 6 Claims. (Cl. 70—47.)



1. A pin tumbler lock the cylinder of which is provided in rear of its front face with a slot, and a hardened steel armor plate secured in said slot and covering approximately that part of the cylinder above the plug.

1,422,516. PIN-TUMBLER LOCK. PETER F. AUGENBRAUN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 2, 1921. Serial No. 497,897. 3 Claims. (Cl. 70—47.)



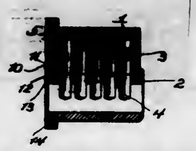
1. A pin tumbler lock comprising a cylinder and a plug, both provided with armor plates covering their outer faces the armored face of the plug being mounted to turn in an opening formed in the armored face of the cylinder.

1,422,517. PIN-TUMBLER LOCK. PETER F. AUGENBRAUN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 2, 1921. Serial No. 497,898. 3 Claims. (Cl. 70—47.)



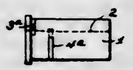
1. A pin tumbler lock comprising a cylinder and a plug, an elongated armor plate secured to the cylinder and having an opening in line with the plug, and an elongated armor plate secured to the end of the plug.

1,422,518. PIN-TUMBLER LOCK. PETER F. AUGENBRAUN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 2, 1921. Serial No. 497,899. 6 Claims. (Cl. 70—47.)



1. The combination with a lock cylinder socketed at its end, of a hardened steel armor on the end of said cylinder and having means entering the socket portion of the latter, and securing means for said last-mentioned means.

1,422,519. PIN-TUMBLER LOCK. PETER F. AUGENBRAUN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 15, 1921. Serial No. 500,832. 4 Claims. (Cl. 70—47.)



2. A plug for a pin tumbler lock provided therein with hardened armor disks located one in advance of another and entering said ping alternately from diametrically opposite portions thereof.

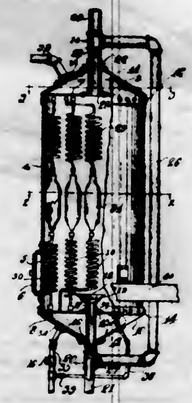
1,422,520. PIN-TUMBLER LOCK. PETER F. AUGENBRAUN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 15, 1921. Serial No. 500,833. 2 Claims. (Cl. 70—47.)



1. A plug for a pin tumbler lock provided therein adjacent to the key-way with a longitudinal slot, and a hardened armor strip in said slot, said armor strip having a notched inner edge to permit passage of the pin tumblers of the lock.

1,422,521. WATER HEATER. ROBERT W. AVERITT, Fort Worth, Tex. Filed Aug. 9, 1920. Serial No. 402,247. 3 Claims. (Cl. 257—229.)

1. A water heater consisting of a steam chamber, a water receiving chamber and a hot water holding chamber, coils inside said steam chamber and connected with said water receiving chamber, coils inside said steam chamber and connected with said hot water holding chamber, cylindrical heating chambers inside said steam chamber and connected with and interposed between said coils, a means for supplying steam to said steam chamber, an exhaust outlet from said steam chamber, a water intake connection connected to said receiving chamber and a water outlet



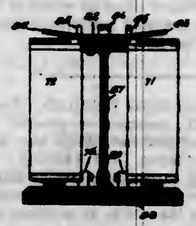
connection from said hot water holding chamber, a means for controlling the draw-off through said water outlet connection, a means for allowing the condensed steam in said steam chamber to be drawn off and a supporting means for the said steam chamber.

1,422,522. PIPE AND TUBE TESTER. JOHN CHARLES BARNISS, Philadelphia, Pa. Filed Feb. 17, 1920. Serial No. 359,401. 9 Claims. (Cl. 73—51.)



1. In a tube testing machine, means to clamp a tube in testing position and permit its rotation on its own axis when in such position, and means operable to admit fluid under pressure to the tube by the clamping action.

1,422,523. SIGNALING MECHANISM. CLARENCE E. BEACH, Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company, a Corporation of New York. Original application filed Oct. 12, 1914, Serial No. 866,322. Divided and this application filed June 18, 1917. Serial No. 175,309. 8 Claims. (Cl. 175—337.)



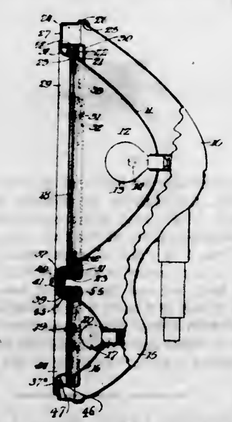
1. In a signaling mechanism, an electro-magnet, an armature structure therefor movable into a plurality of different positions, and supporting means for said armature structure arranged to provide a plurality of predetermined definite leverages between said armature structure and electro-magnet corresponding to predetermined positions assumed by said armature structure.

1,422,524. BAG HOLDER. RALPH W. BEAL and WARREN V. BEAL, Alliance, Nebr. Filed May 3, 1922. Serial No. 558,104. 4 Claims. (Cl. 83—26.)



1. A bag-holder comprising a pair of laterally spaced supporting-bars having vertical apertures, springs seating in said apertures and anchored at their upper ends to the bars, cross-bars positioned beneath the supporting bars, to which cross-bars the springs are anchored at their lower ends, and bag-supporting means on the cross-bars.

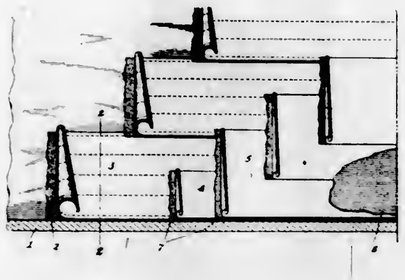
1,422,525. LAMP RING. WILLIAM A. BELL, Kenosha, Wis., assignor to C. M. Hall Lamp Company, Detroit, Mich., a Corporation of Michigan. Filed July 29, 1920. Serial No. 399,845. 4 Claims. (Cl. 240—41.)



1. The combination of a lamp casing member, a glasing constituting a front closure for said casing, a locking ring member insertable in said casing over the glasing, and means for retaining said ring in the casing comprising a plurality of locking means respectively located on opposite sides of the casing, each of said locking means comprising

a lug and an opening therefor respectively provided on said members, one of said lugs being shiftable to permit insertion or removal of the ring.

1,422,526. ROOFING. JACOB M. BERDAN, Paterson, N. J., assignor to Johns-Manville Incorporated, a Corporation of New York. Filed Aug. 4, 1920. Serial No. 401,117. 3 Claims. (Cl. 108—6.)



1. A roofing structure having the following parts in combination: a foundation and supporting member, an intermediate member comprising a resilient layer of loosely assembled particles resting directly upon said foundation, and a superposed layer of waterproof fabric of relatively low tensile strength resting directly on said intermediate member, whereby an exposed, elastically supported upper surface is secured and any expansion or contraction of the foundation member is compensated for in the intermediate layer and not transmitted to the superposed waterproof layer.

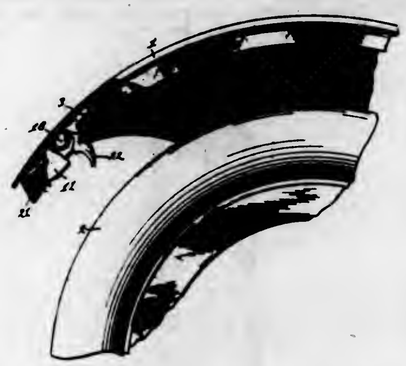
1,422,527. COLOR PRINT VIEWABLE BY LIGHTS OF DIFFERENT COLORS AND PROCESS OF MAKING THE SAME. CHRISTIAN BERGER, New York, N. Y., assignor of one-half to Frederick L. Sawyer, New York, N. Y. Filed Jan. 20, 1920. Serial No. 352,735. 6 Claims. (Cl. 88—1.)



5. A print viewable by lights of opposite colors such as red and green, for example by viewing it through color filters of said colors, said print consisting of a support bearing superposed prints of the two opposite colors, such that when viewed by light of either color the appearance of the print of that color is substantially diminished, the surrounding field, but not the support beneath the printed colors, being tinted of a color which completely neutralizes any contrast with either diminished print, whereby viewing by light of either color discloses the print of the opposite color without trace of the print of the first color.

1,422,528. FENDER LAMP. HENRY J. BERRINGER, San Francisco, Calif. Filed June 6, 1921. Serial No. 475,469. 3 Claims. (Cl. 240—7.)

1. The combination with a fender arranged to be mounted adjacent the wheel of a vehicle and provided with a lamp engaging socket secured upon the under side thereof, of a reflector removably engaged by the socket; an electric lamp mounted within the reflector; means carried by the reflector arranged to form electrical connection between the lamp and the socket when the reflector is engaged by



said socket; and a spring clip secured upon the fender to engage the reflector and retain the same in engagement with said socket.

1,422,529. ADVERTISING DEVICE. RAYMOND A. BINGAMAN, Batavia, Ohio. Filed June 5, 1920. Serial No. 386,763. 2 Claims. (Cl. 40—7.)

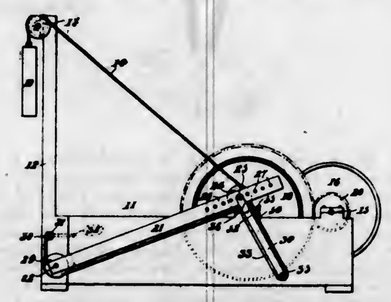


2. A permanently open box for displaying material, a back portion integral with the box but of greater height and width than the box, a brace for said back portion securely fastened thereto and to the forward edge of the box, a poster detachably secured to the upper edge of said back portion and being of the same width as the latter, said back portion being provided with directions for disposing of the contents of the box.

1,422,530. CARBONIZING METHOD. WALTER BONSOR, South Bend, Ind., assignor of one-half to Walter C. Steenburg, South Bend, Ind. Filed Mar. 6, 1922. Serial No. 541,560. 4 Claims. (Cl. 148—30.)

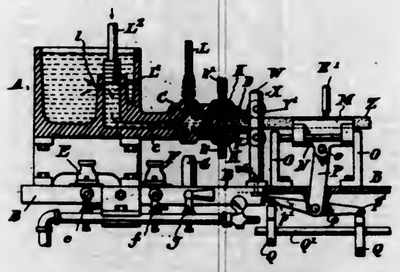
1. The method of carbonising ferrous metal which consists in heating the ferrous metal in contact with humus soil containing less than 15% of moisture and characterized in that its dry solids contain more than 30% of carbon and more than 3% of nitrogen, with lime salts to the extent of not less than 4.4% CaO.

1,422,531. AUTOMATIC TOOL-DROPPING MACHINE. CARROL R. BOYCE, Wautoma, Wis. Filed May 18, 1921. Serial No. 470,724. 4 Claims. (Cl. 255—13.)



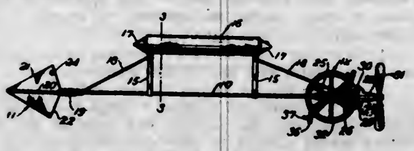
1. A tool-elevating machine comprising an inclined beam mounted for oscillations, a cable adjustably attached to the beam, a tool secured to the free end of the cable, a power shaft, a crank upon said shaft, pitman connections between said shaft and beam, a propelling gear upon said shaft, clutch members between said shaft and gear adapted for automatic release when the tool is at its most elevated position, manual releasing means for the clutch, adjustable winding means for the cable and an accelerating means for the crank carried by the crank adjacent the power shaft.

1,422,532. MACHINE FOR MAKING ORNAMENTAL RULES AND BORDERS. MARTIN M. BERIT, San Antonio, Tex., assignor of one-half to Light Publishing Company, San Antonio, Tex., a Corporation of Texas. Filed May 31, 1921. Serial No. 473,992. 3 Claims. (Cl. 207—1.)



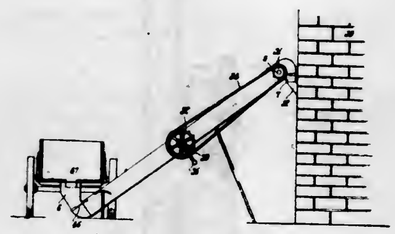
1. A machine for making ornamental rules and borders from molten metal, comprising a table, a mold thereon for giving strip form to the metal, devices supported on the table and engaging the strip for advancing it in a straight horisontal path after leaving the mold, and means supported on the table between the mold and the strip-advancing devices for forming a design on the edge of the strip.

1,422,533. WATER CYCLE. GRACE C. BROWN, San Francisco, Calif. Filed July 12, 1920, Serial No. 395,575. Renewed Dec. 19, 1921. Serial No. 523,591. 3 Claims. (Cl. 9—18.)



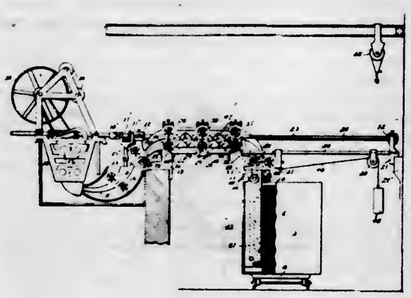
1. A water cycle comprising a pair of floats disposed substantially on the same plane and converging toward the forward end of the structure; a sling supported between said floats; a rigid shaft fixed to the floats and disposed therebeneath and centrally thereof; veined steering member resiliently and yieldably mounted at the forward end of said shaft, and a pedal operated propelling mechanism disposed at the opposite end of said shaft.

1,422,534. GRAIN ELEVATOR. ORLANDO HOMER BROWN, Victoria, British Columbia, Canada. Filed Feb. 24, 1921. Serial No. 447,522. 7 Claims. (Cl. 198—48.)



1. In an apparatus for elevating grain from wagons, the combination with a casing and rotatably mounted shafts arranged therein, of gears mounted on said shafts, a chain actuated by said gears, means for guiding and supporting the upper flight of said chain, a plurality of bucket sections pivoted to each other and secured to alternate links of said chains and operable therewith, means for connecting said casing to the wagon and means for actuating said chain.

1,422,535. FEEDING MECHANISM FOR TINNING MACHINES. DARIO BUCCICONE, Canonsburg, Pa. Filed May 16, 1921. Serial No. 470,073. 14 Claims. (Cl. 271—11.)



1. The combination with an overhead means for feeding plates to a tinning pot, means for elevating plates one by one from a substantially vertical stack to said overhead feeding means and including a movable friction member engaging the outermost plate of the pile and movable transversely of the latter for maintaining frictional engagement with said outermost plate, said overhead feeding means being extensible in a direction transversely of the pile of plates and engaging the plate elevating means so as to move it transversely of the pile of plates when said overhead feeding means is extended, means to normally extend said overhead feeding means, driving means for said overhead feeding means, and detachable operating connections between the overhead feeding means and the plate elevated means, said feeding means and elevating

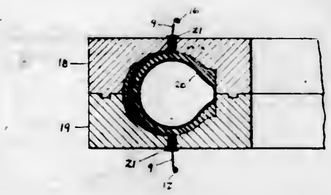
means being devoid of interconnections with the exception of said operating connections, and a portable carrier for the pile of plates upon which said elevating means is mounted.

1,422,536. SELECTIVE COUPLING. LESTER H. BULLARD, San Leandro, Calif. Filed July 12, 1921. Serial No. 484,081. 11 Claims. (Cl. 103—62.)



1. The combination with driving and driven shafts of a selective coupling comprising a head secured to one of said shafts and slidably engaged on the other shafts, a latch on said head associated with each of said other shafts, and means for engaging a selected latch with its associated shaft.

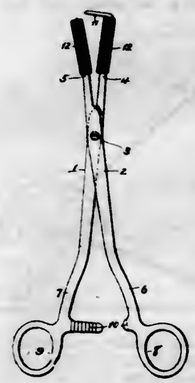
1,422,537. PROCESS OF MAKING TIRES. WILBUR B. BURKE, Cleveland, Ohio. Filed Aug. 20, 1919. Serial No. 318,722. 4 Claims. (Cl. 18—56.)



1. In a method of making tire casings, the steps which consist in assembling the composite layers of the casing in proper order, interposing a vulcanizing element adapted to be electrically heated, and then simultaneously applying heat exteriorly to such casing and passing a heating electric current through said element.

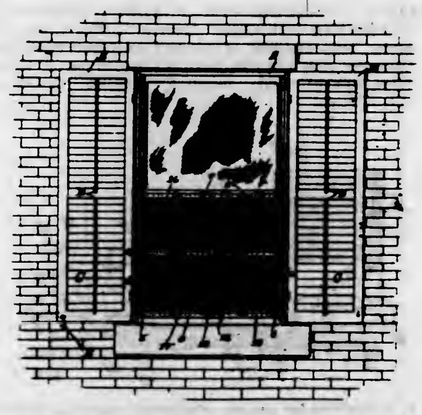
1,422,538. TOOL. WILLIAM H. CAMERON, Pittsburgh, Pa., assignor to Radium Chemical Company, Pittsburgh, Pa. Filed Jan. 13, 1921. Serial No. 436,988. 2 Claims. (Cl. 128—321.)

1. A tool for handling surgical tubes, comprising relatively movable padded jaws, one of said jaws provided with a finger disposed in the plane of said jaw and at substantially right angles thereto, said finger adapted to



project beyond the free end of the other jaw, and means whereby said jaws may be relatively moved.

1,422,539. WINDOW SCREEN. ISAAC W. CHERRY, Pensacola, Fla. Filed Sept. 7, 1920. Serial No. 408,654. 1 Claim. (Cl. 156—14.)



The combination with a window frame, guides carried by the stiles of the window frame, of a window screen comprising a frame having side flanges, the longitudinal intermediate portion of said flanges being substantially crimped to provide a tongue, said tongue being slidable in the guides, and means carried by the free edges of said flanges for holding the screen in various positions.

1,422,540. FIBER-BOARD BOX. JOHN L. CHRISTENSEN, Chicago, Ill. Substitute for application Serial No. 445,348, filed Feb. 16, 1921. This application filed May 5, 1922. Serial No. 558,571. 9 Claims. (Cl. 229—41.)

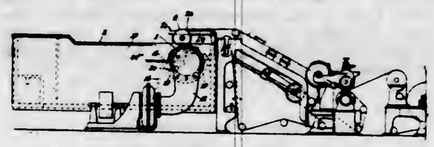
1. A box having upper and lower sections each comprising a main portion with end and side walls swingable relative to the main portion, one of the side walls being common to both sections and forming a hinge therebetween, portions connecting the adjacent end walls of the two sections having notches in their free edges and scored to permit the two sections to be swung into interfitting relation, and means for securing the outer side wall of

each section to the adjacent end walls, the outer side wall of one of the sections having a pair of spaced scores therein along which it may bend when drawn outwardly at its center so as to cause the adjacent end walls to swing inwardly.



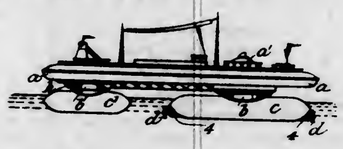
8. A box comprising a main wall with end and side walls swingable relative thereto, rectangular corner portions integrally connecting the end and outer side walls together, one of each pair of walls thus connected being scored diagonally so as to permit the corner portion therebetween to be swung bodily into perpendicular position against the other wall and secured thereto, and one of the adjoining walls being scored diagonally to permit it to be swung outwardly from the main wall while the adjoining wall is swung inwardly flat upon the main portion.

1,422,541. CYLINDER PAPER-MAKING MACHINE. WILLIS S. CRANDELL, Elsmere, N. Y., assignor to A. P. W. Paper Co., Albany, N. Y., a Corporation of New York. Filed June 16, 1919. Serial No. 304,155. 14 Claims. (Cl. 92—43.)



1. In a cylinder paper machine, the combination of a cylinder mould, rollers supporting the outside of the periphery, and rollers supporting the inside of the periphery.

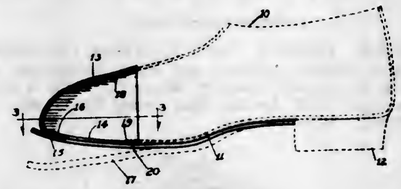
1,422,542. MULTIPLE-HULL BOAT. FREDERICK GEORGE CREED, Croydon, England. Filed Dec. 3, 1919. Serial No. 342,226. 8 Claims. (Cl. 114—61.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A ship embodying a superstructure and a plurality of float-structures each embodying a float, one of said floats being horizontally rotatable for steering purposes and having a hollow supporting member, means for rotating the float through the medium of said hollow supporting member, said rotatable float carrying trimming means consisting of a pair of vanes arranged at opposite sides of the float, a transverse shaft carrying said vanes, and means for rocking said shaft embodying a member extending up through the tubular member and rotatable with the float.

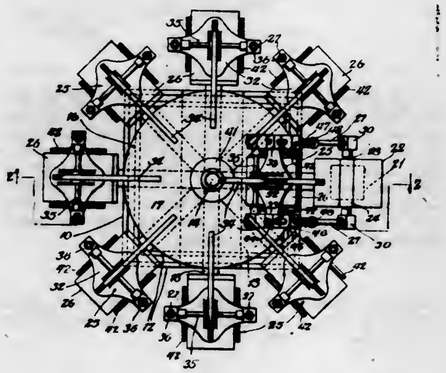
1,422,543. REPAIR TIP FOR SHOES. NICOLA D'ANDREA, Bridgeport, Conn., assignor of one-half to Michael Persichino, Bridgeport, Conn. Filed Jan. 25, 1922. Serial No. 531,601. 5 Claims. (Cl. 36—77.)

1. As an article of manufacture, a repair tip for shoes, comprising a toe cap having an inturned lower edge, a toe cap welt secured to the under face of said lower edge



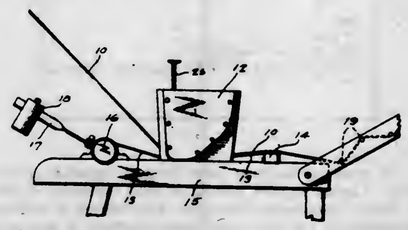
and extending outwardly beyond said toe cap, and means securing said inturned edge and welt to each other.

1,422,544. BOX MACHINE. LOREN W. DARLING, Sycamore, Ill., assignor of one-half to Albert E. Hammerschmidt, Sycamore, Ill. Filed Jan. 27, 1922. Serial No. 532,206. 12 Claims. (Cl. 93—36.)



1. In a box machine, the combination of a base, a turntable rotatively mounted thereon, and having a plurality of lower pressure heads extending up therefrom, circumferentially about its axis of rotation, and upper pressure heads, one co-operating with each lower pressure head and fulcrumed on said turntable, said upper pressure heads having pressure blocks capable of being moved over said lower pressure heads and movable lengthwise of said head, and pressure levers for clamping said pressure blocks upon the folded flaps of a carton.

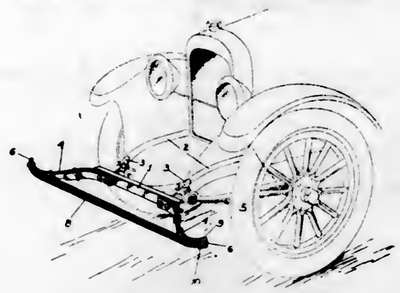
1,422,545. COATING APPARATUS. CURTIS I. DAYTON, Chicago, Ill., assignor of one-half to Ernest L. Dayton, Detroit, Mich. Filed June 1, 1920. Serial No. 385,707. 5 Claims. (Cl. 91—12.)



1. In a coating apparatus, a fountain for holding a supply of liquid coating material and having an outlet through which the material passes to the article to be

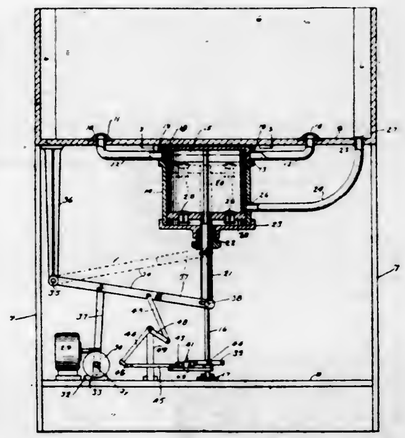
coated, and a distributor removably mounted in the fountain over the outlet thereof and having means for dividing the coating material into separate streams.

1,422,546. BUMPER. PAUL E. DEMMER, Marysville, Calif., assignor, by direct and mesne assignments, to D & W Specialty Company, Marysville, Calif., a Corporation. Filed Jan. 23, 1922. Serial No. 531,099. 3 Claims. (Cl. 293—55.)



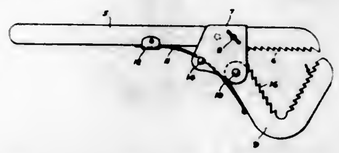
2. A bumper for vehicles including spaced spring members fixed to and projecting beyond the frames of the vehicle, the springs being arranged for deflection transversely of the vehicle, and their free ends tending to separate from each other, and a flexible structure fixed to and extending between the free ends of the springs, the latter being forced together somewhat before the flexible structure is mounted thereon whereby to hold the flexible structure normally under tension.

1,422,547. WASHING MACHINE. HERMAN C. DOMAN, Oshkosh, Wis. Filed Aug. 5, 1919. Serial No. 315,439. 6 Claims. (Cl. 68—37.)



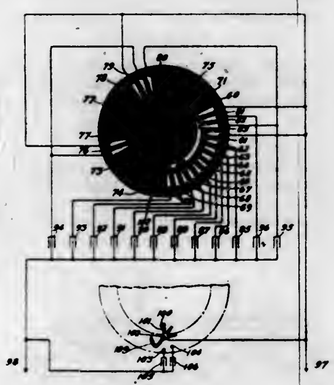
1. A washing machine comprising a container, a plurality of spray nozzles located in said container so that the water discharged therefrom will impart a whirling movement to the garments being washed, a source of washing fluid, a pump, and means for intermittently putting said pump into communication with said nozzles one at a time for the purpose described.

1,422,548. PIPE WRENCH. WENZEL DVORAK, Fernie, British Columbia, Canada. Filed Aug. 24, 1921. Serial No. 494,811. 2 Claims. (Cl. 81—106.)



1. A pipe wrench having a handle member, there being notched configurations on the inner end of the said handle member, a bracket member slidably engaged with the said handle member, a V-shaped jaw member having notched configurations on the inner edges thereof, one terminal of the said V-shaped jaw member pivotally connected to the said bracket member, a spring affixed intermediate its ends to the said bracket member, one terminal of the said spring substantially secured to the said handle member, the opposite terminal of the said spring bearing against the said body member and means securing the said slidable bracket member in any desired position.

1,422,549. MULTIPLE SWITCH. AUGUSTUS J. EAVES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1918. Serial No. 249,820. 7 Claims. (Cl. 200—7.)

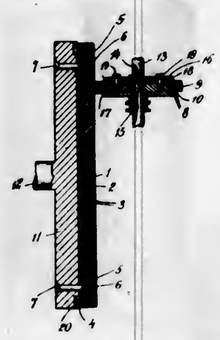


1. A multiple switch comprising a stationary member having a recessed portion therein, a plurality of contact members mounted in the recessed portion, a plurality of additional contact members mounted on the stationary member and in a different plane from said first contact members, and a movable member provided with separate means each of which in turn is adapted to consecutively engage the contact members mounted in the recessed portion until all such members are engaged, and additional means for engaging the contact members mounted in a different plane.

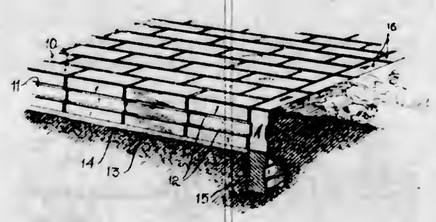
1,422,550. FRICTION-DRIVING DEVICE. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct. 15, 1918. Serial No. 258,276. 14 Claims. (Cl. 74—26.)

1. In friction driving devices, a drive member and a replaceable facing member therefor comprising a stiffened

body having a plurality of layers of canvas carrying and impregnated with cured phenolic condensation cementing material, a vulcanized rubber facing secured to said stiffened body and a fabric connector interposed between said body and facing and securely united thereto, projecting aligning portions on said body containing fibrous material and carrying phenolic condensation cementing material cemented to said body, and threaded securing devices embedded in said facing member and cooperating with said stiffened body.



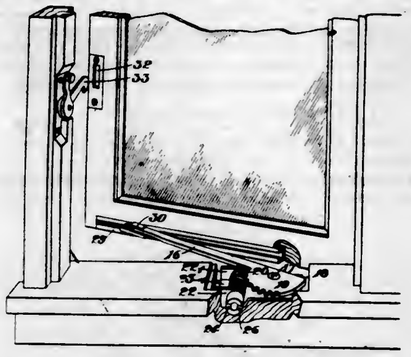
1,422,551. PAVING BLOCK AND ROADWAY CONSTRUCTED THEREFROM. JOHN D. FLETCHER, Evansville, Ind. Filed Sept. 22, 1919. Serial No. 325,388. 1 Claim. (Cl. 94—11.)



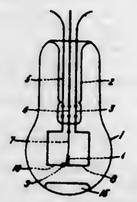
In a road-way, a plurality of blocks having furrows formed longitudinally of their side of greatest dimension, a layer of sand beneath and forming a bed for the blocks, said blocks being spaced from each other, some of said blocks being arranged in parallel courses upon opposite sides of and to form curbs for the road bed each parallel course being spaced from the blocks forming the road and consisting of two layers of blocks, one above the other and in spaced relation, the upper surfaces of the lower layer of blocks extending approximately to the level of the sand forming the road-bed and thereby preventing it being washed away or otherwise dislodged, all of said spaces being adapted to receive a cementitious material whereby every block is spaced from every other block.

1,422,552. WINDOW ADJUSTER. FREDERICK FOURNIER, San Francisco, Calif. Original application filed Feb. 25, 1920, Serial No. 361,127. Divided and this application filed Mar. 9, 1921. Serial No. 451,036. 3 Claims. (Cl. 268—14.)

1. The combination with a framed opening and a swinging closure therefor mounted to swing about vertical supports, of an operating mechanism for said closure comprising a pivoted operating lever, a guide track carried by said closure adjacent the bottom thereof, a sliding block engageable with the guide track and adapted to be detachably connected to the operating lever and a keeper plate pivotally mounted on the sliding block for retaining the operating lever in connection with the sliding block.



1,422,553. INCLOSED-ARC LAMP AND METHOD OF STARTING THE SAME. ERNST FRIEDERICH, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Original application filed Oct. 13, 1914, Serial No. 866,438. Divided and this application filed Jan. 28, 1916, Serial No. 74,935. Renewed Dec. 7, 1921. Serial No. 520,719. 11 Claims. (Cl. 176—1.)



1. An electric arc device comprising the combination of a sealed envelope, refractory metal electrodes therein adapted to operate at incandescence and remaining substantially intact when supporting an arc discharge, and a supply of vaporizable halogen salt having a luminous spectrum for imparting light of desired color to an arc between said electrodes.

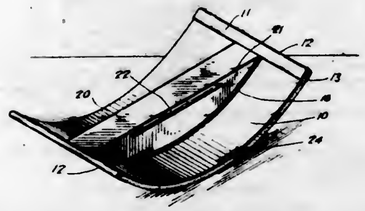
1,422,554. BAG FRAME. FRANK A. FULLER, Newark, N. J., assignor to The J. E. Mergott Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 1, 1919. Serial No. 341,679. 3 Claims. (Cl. 150—29.)



1. A bag frame comprising hinged members, each frame member comprising a channelled main body portion and

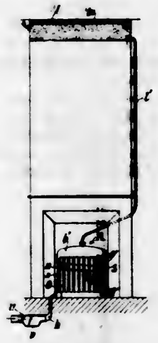
hinged members, means for pivotally connecting the lower ends of said frame members, the hinge members adjacent their pivotal connection on the top side only abutting thereby presenting a continuous or unbroken top surface, and the under side of said hinge members adjacent their pivotal connection being cut away to present an open space to permit the bag material to enter in order to facilitate the maximum opening of the bag frame.

1,422,555. BLOTTER. FRANZ A. FULLER, Newark, N. J., assignor to The J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed Aug. 27, 1921. Serial No. 496,000. 3 Claims. (Cl. 120—24.)



3. A blotter comprising an oblong rectangular metallic plate having a uniform arcuate curve, open transverse loops at the ends of said plate, a pair of spaced ribs raised on the concave side of said plate extending from end to end thereof, depressed seats arranged in paired intervals interjacent said ribs there being open slots intervening said seats and ribs, a handle formed of sheet metal having a flat top and right-angled sides cut to fit said plate between said ribs, outstanding ribs on the sides of said handle, and prongs extending radially from the arcuate edges of said handle sides through the mentioned slots and clenched upon said seats thereby forming a substantially level bottom on the convex side of said blotter plate.

1,422,556. HEATING SYSTEM. GUSTAVE GABET, Paris, France. Filed Dec. 10, 1919. Serial No. 343,700. 5 Claims. (Cl. 126—132.)



1. In a central heating system, the combination with a chimney having an open fireplace, a chamber placed at the lower part of the fireplace, a chamber placed at the upper part, vertical tubes connecting the two chambers, the upper part of said tubes being bulged outwardly and a substantially horizontal tube placed in the concavity formed by the bulged portions of the tubes and connected to certain of said pipes.

1,422,557. PISTON-RING COMPRESSOR. GEORGE GARRETH, Stockton, Calif. Filed Jan. 5, 1921. Serial No. 435,118. 7 Claims. (Cl. 29—96.4.)



1. A piston ring compressor comprising a split spring band whose ends normally overlap and shaped to form a circle, a pair of handles extending parallel to the axis of the band, one handle being directly connected to the band, and means between the other handle and the band and connected to both, and at a point on the band opposed to the connection of the first named handle therewith, the handles being arranged to be manipulated in unison to alter the size of the band circle.

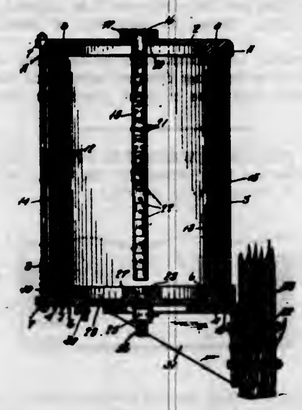
1,422,558. TRACTOR. LOU M. GARDINER, Pittsburgh, Pa., assignor to The Iron Horse Tractor Co., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 15, 1920. Serial No. 374,185. 14 Claims. (Cl. 180—8.)



1. In a tractor, the combination of a frame, a vertically adjustable sub-frame associated with the frame, ground penetrating means carried by the sub-frame, and means also carried by the sub-frame to actuate the ground penetrating means; said actuating means comprising a motor and a transmission gearing with a connection to raise and lower the sub-frame and another connection to drive the ground penetrating means.

1,422,559. LIQUID CONTAINER. BERNARD F. GERMANI, Seattle, Wash. Filed Apr. 22, 1921. Serial No. 463,480. 1 Claim. (Cl. 221—95.)

A liquid container, consisting in combination in a base and top formed with aligned concentric grooves in their upper and lower faces, respectively, a glass cylinder secured in liquid-tight condition in said grooves, external rods to secure said base and top in fixed relation, fixed curved plates arranged in said grooves on opposite sides and exteriorly of said cylinder and extending each approximately ninety degrees about said cylinder, movable plates slidable in said grooves intermediate said cylinder and said fixed plates adapted to close the spaces between and slidable behind said fixed plates, a filling tube extending axially within said cylinder and dependent from an aperture in said top, said tube being formed with spaced holes along its length and increasing in number towards



said top, and with graduation marks along its length, said base having a raised central boss and an annular depression thereabout, an outlet for liquid in said boss and an outlet for sediment in said depression.

1,422,560. PROCESS OF MAKING ALUMINUM CHLORIDE. HARRY D. GIBBS, Pennsgrove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 19, 1921. Serial No. 470,841. 10 Claims. (Cl. 23—13.)

7. The process of producing aluminum chloride which comprises subjecting aluminum to the action of chlorine at a temperature below 0° C.
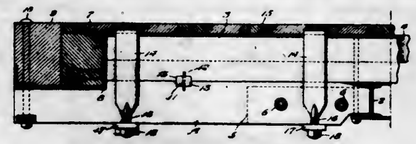
1,422,561. RUBBER-FORCING MACHINE. JOHN WILLIAM GOMERSALL, Manchester, England. Filed Nov. 1, 1920. Serial No. 421,153. 2 Claims. (Cl. 18—12.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a rubber-forcing machine, the combination with the single roller of a doctor located below it and adapted to be automatically drawn towards the periphery of the roller by a spring, and a spring operatively connected with the said doctor.

1,422,562. UNDERFRAME AND DRAFT-ARM CONNECTION. GEORGE N. GOOCH, Macon, Ga., assignor of one-half to Harry B. Grimshaw, Portsmouth, Va. Filed Oct. 14, 1921. Serial No. 507,707. 4 Claims. (Cl. 105—426.)

1. An underframe including draft-arms or timbers, center sills, a filler interposed between the upper halves of the center sills, a body bolster, a block between the rear ends of the draft-arms or timbers extending to the



body bolster and holding the arms spaced apart, and a supporter extending around said parts.

1,422,563. WRENCH. NELSON WOODTHORPE GRAHAM, Johannesburg, Transvaal, South Africa. Filed Sept. 15, 1920. Serial No. 410,556. 4 Claims. (Cl. 81—103.)



1. A wrench comprising a handle portion provided with a fixed jaw, and a movable jaw, the latter having an extension in which a row of holes is formed in the direction of its length, a part pivotally connected to the fixed jaw and having an opening through which the movable jaw extension passes and moves in a direction parallel to the handle portion, and also having a hole which passes through the sides thereof and communicates with said opening, and a pin which is adapted to engage in said hole and also in any one of the row of holes in the movable jaw extension to retain the movable jaw in different positions relative to the fixed jaw.

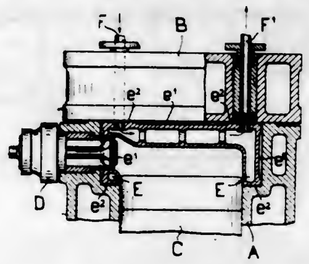
1,422,564. PROCESS OF SULPHONATING CARBON COMPOUNDS. ARMIN R. GROB, Wilmington, Del., and CARLETON C. ADAMS, Pennsgrove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 30, 1920. Serial No. 393,101. 11 Claims. (Cl. 23—24.)

1. A process of sulphonating an organic compound which comprises bringing together the compound to be sulphonated and sulphur trioxide in a medium of liquid sulphur dioxide.

1,422,565. COOLING DEVICE FOR INTERNAL-COMBUSTION ENGINES. CARL GRUNWALD, Essen-Bredeney, Germany, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Filed Nov. 9, 1921. Serial No. 514,045. 4 Claims. (Cl. 123—173.)

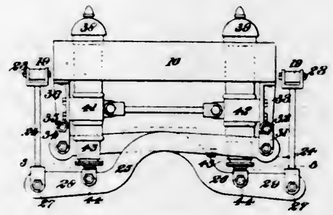
2. A cooling device for internal combustion engines having a cylinder cover over its combustion chamber, said device comprising an exchangeable hollow member at the combustion end of the cylinder, said member having

apertures for receiving the valve cages and spaces for cooling fluid, surrounding said valve apertures, recesses between the outer surface of the walls, of said hollow



member, remote from said combustion chamber, and the adjacent parts of the cylinder and the cylinder cover, and connecting means between said recesses and between said combustion chamber and said recesses.

1,422,566. AIR-SPRING RIGGING. LUCIEN R. GRUSS, San Francisco, Calif., assignor to Pneumatic Cushion Co., San Francisco, Calif., a Corporation of Arizona. Filed Aug. 27, 1919. Serial No. 320,229. 3 Claims. (Cl. 267—18.)



2. The combination with a frame and axle of a vehicle and a leaf spring interposed between and having one end connected to the frame and extending longitudinally thereof of a telescopic cushion device having one member connected to the frame and carried out of line with the leaf spring and a flexible load carrying connection between the remaining member of the telescopic device and leaf spring, said connection including a transversely arranged lever fulcrumed on the vehicle frame and pivotally connected to the cushioning device and a pendent link connection between the lever and leaf spring.

1,422,567. VEHICLE SUSPENSION. RENÉ GUILLERY, Aubervilliers, France, assignor to Société des Etablissements Malicet & Blin, Aubervilliers, Seine, France. Filed Nov. 11, 1920. Serial No. 423,393. 6 Claims. (Cl. 280—104.)

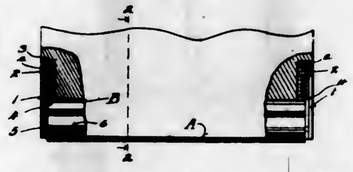


1. In a suspension for vehicles, a chassis, suspension springs on the chassis, a shaft mounted for swinging movement with repect to the chassis, levers arranged at the ends of said transverse shaft, and means connecting each of said levers to the corresponding suspension spring of the vehicle.

1,422,568. MANUFACTURE OF ALUMINUM CHLORIDE. FRANK W. HALL, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Texas. Original application filed Mar. 1, 1920. Serial No. 362,199. Divided and this application filed Sept. 20, 1921. Serial No. 501,985. 8 Claims. (Cl. 23—13.)

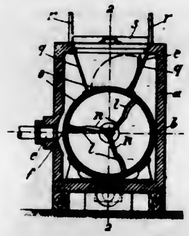
4. The process of manufacturing aluminum, chloride which consists in reacting chlorin, sulfur and powdered alumina under conditions to form aluminum chloride.

1,422,569. FLOATING WEATHER STRIP. JOHN W. HAMMES, Racine, Wis. Filed May 23, 1921. Serial No. 471,805. 1 Claim. (Cl. 20—68.)



In a swinging closure having a longitudinally disposed cavity in its edge, a yieldable floating roller mounted in the cavity and adapted to engage an opposed fixed surface to seal the gap between the fixed surface and the movable closure the combination of an auxiliary strip associated with the floating roller for engagement with the inner walls of the cavity, whereby currents of air tending to travel therethrough are checked.

1,422,570. APPARATUS FOR COOLING AND FREEZING OF FISH AND THE LIKE. WILLIAM BATE HARDY and JEAN JULIEN PIQUÉ, Westminster, London, England. Filed Oct. 12, 1920. Serial No. 416,508. 2 Claims. (Cl. 257—82.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

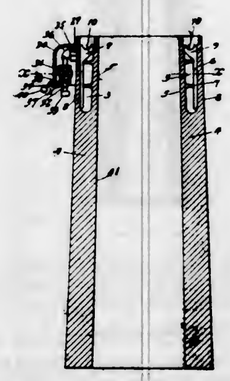


1. In a device for freezing perishable articles, a tank having a feed opening, an inner chamber, a gutter disposed within the tank for directing articles to the interior of the inner chamber, a cover for closing the feed opening, a chute for directing articles to the gutter, means for supplying and regulating a quantity of fluid to the inner chamber, and agitating means operating in the inner chamber.

1,422,571. METHOD OF EXTRACTING POTASSIUM SALTS FROM BITTERNS. IVAN F. HARLOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Nov. 27, 1916. Serial No. 133,717. 1 Claim. (Cl. 23—22.)

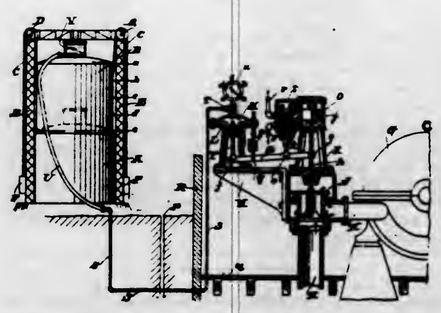
The method of recovering potassium salts from a bittern containing potassium carbonate among other potassium salts and also containing sodium salts, such bittern being concentrated approximately to the point of saturation, which consists in adding calcium chloride thereto in an amount chemically equivalent to the potassium present; heating the solution to approximately 95 degrees C., whereby calcium carbonate is precipitated out, leaving the potassium in solution in the form of the chloride; further heating the residual solution so as to concentrate the same to approximately three-fourths of its former volume, whereupon the sodium salts crystallize out of such solution while still hot; separating such crystallized salts from the mother liquor; and then cooling such liquor to approximately 20 degrees C., whereupon the potassium chloride will crystallize out practically pure.

1,422,572. INGOT MOLD. SAMUEL E. HITT, Elyria, Ohio, and JOSEPH I. PEYTON, Chicago, Ill. Filed Dec. 18, 1920. Serial No. 431,641. 13 Claims. (Cl. 22—147.)



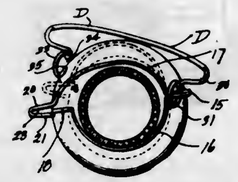
1. In a mold for casting ingots and the like characterized by the provision of a vacuum chamber in the upper portion of the mold wall, said vacuum chamber having an outer wall and an inner wall and being provided with means connecting said inner wall with said outer wall to compensate for the unequal expansion and contraction of said inner and outer walls of said vacuum chamber in both a longitudinal and a transverse direction.

1,422,573. GAS-BOOSTER REGULATOR. PAUL HOFFMAN, Easton, Pa., and FORREST C. REED, Harriette, Mich., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 20, 1920. Serial No. 418,277. 4 Claims. (Cl. 48—173.)



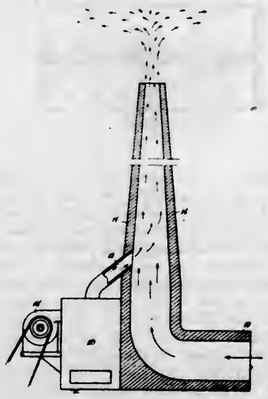
1. Apparatus for regulating the output of a power driven machine for boosting or compressing gas, comprising in combination with the supply tank or holder of gas and a gas bell for supplying the booster, of the inlet valve of the driving element of the machine, and a regulator connected to control said valve and responsive to hydrostatic pressure dependent upon the elevation of the said gas bell of the supply tank or holder, whereby the said driving element is regulated in accordance with the varying conditions of supply of gas to said tank and the regulator tends to maintain the gas bell of the tank in a certain average position.

1,422,574. MILK-BOTTLE CARRIER. CLARENCE E. HOUGH, Bowen, Ill. Filed Dec. 29, 1920. Serial No. 433,873. 8 Claims. (Cl. 215—100.)



1. In a carrier structure, the combination of a collar split upon one side thereof, outwardly projecting portions formed upon the free ends thereof having aligning apertures therein, said collar having an outwardly projecting portion thereon diametrically opposite said split in the collar; and a bail permanently attached to said last mentioned projection of the collar, and adapted for insertion through the apertures in the free end projection portions for maintaining the collar in closed position.

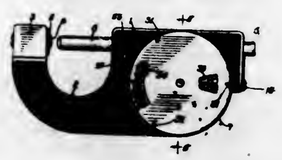
1,422,575. PROCESS OF DISCHARGING SMELTER GASES. WILLIAM H. HOWARD, Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 8, 1921. Serial No. 450,756. 8 Claims. (Cl. 266—1.)



1. In the art of safely discharging into the air, furnace gases which are obnoxious or harmful to vegetation or animal life, the method which consists in discharging such gases into a chimney or similar conduit extending high into the air, and simultaneously discharging into the chimney so as to mix thoroughly with the obnoxious gases therein, a gas of an unobjectionable character having a temperature higher than the temperature of the atmos-

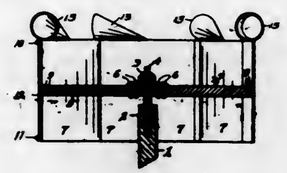
phere and in a volume sufficient to mix with and thus dilute the obnoxious gases to an extent such that the mixture formed in the chimney will readily diffuse into the atmosphere and by extreme dilution of the obnoxious gases therein have its objectionable characteristics reduced before it can come in contact with vegetation in the vicinity.

1,422,576. MEASURING GAUGE. WILLIAM HUMPHREYS, Fullerton, Pa., assignor to Wilmort Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 26, 1919. Serial No. 347,554. 8 Claims. (Cl. 33—147.)



1. In a measuring gauge the combination of a frame member having an extension supporting an adjustable contact screw, said frame member comprising an open housing for enclosing an indicating dial, a gauging stem slidable in said housing and adapted to cooperate with said contact screw, a cover plate for closing said housing, a shaft in said housing for supporting said dial, and jewel bearings mounted in said housing and in said cover plate for pivotally supporting said shaft, said jewel bearings comprising shank portions pressed into rigid setting in openings in said housing and said cover plate and having heads bearing against said housing and said cover plate.

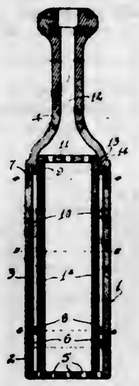
1,422,577. ADVERTISING WHEEL. OSCAR W. JONES, Cambridge City, Ind. Filed Feb. 7, 1921. Serial No. 443,086. 1 Claim. (Cl. 40—39.)



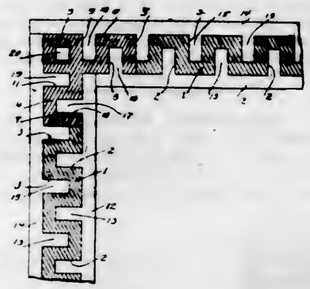
A construction of the nature set forth comprising a vertical post, a pivot extending up from the upper end of the post, a hub having a central cavity to receive said pivot, a set-screw for securing the hub in place on the pivot, a plurality of spokes radiating from the hub, a sheet metal band connecting the outer ends of the spokes and bent to form display portions each extending from the end of one spoke to the side of the spoke next thereto thereby forming wings each parallel with its respective spoke, all of said display portions and wings being integral parts of said metal band, a removable plate adapted to be placed over the face of each of said display portions, and means for retaining said plates removably in position, all substantially as shown and described.

1,422,578. CIGAR AND CIGARETTE ASH RETAINER. CARSTEN H. KATTENBERG, San Francisco, Calif. Filed July 6, 1920. Serial No. 394,130. 1 Claim. (Cl. 131—22.)

A device of the character described including a tube within a tube, the outer tube having a mouth piece and constructed in threaded sections, one of the sections comprising a perforated end closure, the inner tube having radial lugs for spacing the same from the outer tube to provide a cooling chamber around the inner tube and having an open front end and a perforated opposite end, and said inner tube being produced from a heat resisting substance and capable of a sliding withdrawal movement from the outer tube.



1,422,579. METHOD OF MAKING RUBBER TILING. WILLIAM J. KENT, Brooklyn, N. Y., assignor to Peerless Rubber Manufacturing Company, a Corporation of New York. Filed Apr. 9, 1921. Serial No. 460,105. 2 Claims. (Cl. 18—61.)

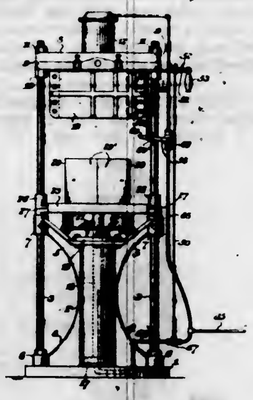


1. A method of making tiling which comprises forming similar strips with integral projections in pairs simultaneously from a single sheet of rubber, the projections of one strip being formed from the stock between the projections of the other strip, assembling the strips thus formed with other portions of the tiling having recesses by fitting the projections in said recesses and finally vulcanizing the tiling.

1,422,580. BOX-PRESSING MACHINE. MATHIAS R. KONDOLF, Philadelphia, Pa. Filed May 9, 1921. Serial No. 468,132. 15 Claims. (Cl. 93—36.)

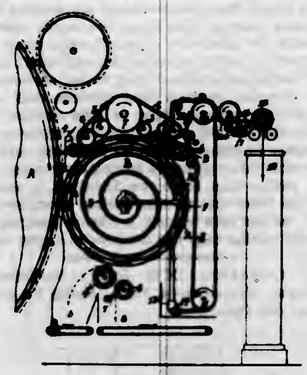
1. In a box pressing machine, the combination, with a female form having an angular cross-section, of a male form having a similar cross-section and adapted to press

a box therein, said male form having relatively movable angular sections and means for moving said sections



toward the respective angles of said female form while permitting their automatic adjustment relatively to the material under pressure.

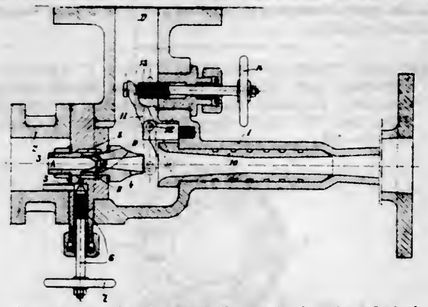
1,422,581. PROCESS OF AND APPARATUS FOR PREPARING TEXTILE FIBERS FOR SPINNING. GUILLAUME CLEMENT LAURENCY and MARCEL VIGIER, London, England. Filed May 26, 1921. Serial No. 472,851. 4 Claims. (Cl. 19—99.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. The process of preparing textile fibers for spinning consisting in the removal of the fibers from the carding engine cylinder in a series of separate tufts, carding and combing a portion of said tufts during removal, retaining the tufts by sectional combs whilst carrying them away from the card, ironing said tufts under the application of heat and friction and removing the fibers from the carrying means by friction whilst their forward ends are combed, seizing said forward ends to enable the rear ends of the tufts to be combed, and joining the combed fleeces together so as to form a continuous wide sheet.

1,422,582. STEAM EJECTOR. MAURICE CHARLES ARMAND LEBLANC, Val-sur-Seine, par Croissy, France, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Filed Dec. 19, 1919. Serial No. 346,196. 5 Claims. (Cl. 162—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In combination in an ejector, a diffuser communicating at one end with a source of fluid to be compressed and at the other with a region of higher pressure into which fluid is to be compressed, a motive fluid delivery nozzle formed in parts arranged end to end and spaced

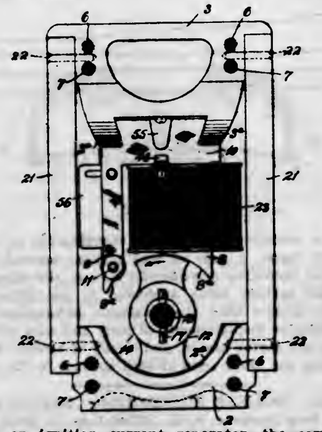


to form an opening between the parts for the admission of variable amounts of motive fluid to the nozzle.

1,422,583. PROCESS OF PURIFYING HIGHER SECONDARY ALCOHOLS. ROBERT B. LEBO, Elizabeth, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Feb. 16, 1921. Serial No. 445,477. 6 Claims. (Cl. 260—156.)

1. The process of purifying secondary alcohols higher than isopropyl alcohol when in a mixture including isopropyl alcohol which comprises adding benzol at least sufficient to form a low-boiling-point mixture with the isopropyl alcohol and subjecting the mixture to fractional distillation.

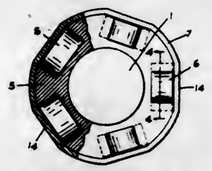
1,422,584. ELECTRIC GENERATOR. LEON J. LE PONTOIS, Lakewood, Ohio; Anna Le Pontois, administratrix of said Leon J. Le Pontois, deceased, assignor to The Teagle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 28, 1917. Serial No. 158,094. 3 Claims. (Cl. 171—209.)



1. In an ignition current generator, the combination of a bottom pole piece of cast iron formed on its top side with a polar surface and on its bottom side formed to rest upon and be secured to a suitable support for the generator, a top pole piece comprising a cast iron block and a plurality of bifurcated laminae secured thereto and forming depending polar projections with polar surfaces at their lower ends opposite the polar surface of the bottom pole piece, nonmagnetic end plates rigidly attached to the said pole pieces and forming therewith a rigid supporting frame, permanent magnets in the form of straight bars disposed on opposite sides of said supporting frame with their north pole ends abutting one pole piece and their south pole ends abutting the other pole piece, a generating winding in inductive relation to one of said polar projections, and an unwound inductor rotor operably

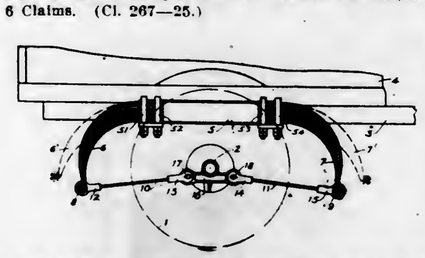
mounted in said end plates and shaped and correlated to said polar surfaces of the poles alternately to establish a flux path through said winding and then a path outside of said winding.

1,422,585. THRUST BEARING. DARCY E. LEWELLEN, Columbus, Ind., assignor to Lewellen Manufacturing Company, Columbus, Ind., a Corporation of Indiana. Filed Mar. 18, 1920. Serial No. 366,748. 3 Claims. (Cl. 64—50.)



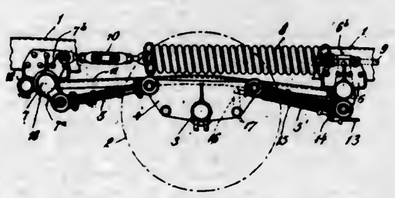
3. A thrust bearing comprising a cage of relatively small circumference having a series of spaced recesses around its periphery, a roller of relatively large axial diameter fitting in each of said recesses and having its ends flat and at right angles to its axis, the edge face of said cage being flattened at the bottom of each recess, and a band adapted to extend around the periphery of said cage for retaining the rollers in the recesses, said band being bent inwardly at points in registration with the flat spaces on the cage and said bent-in portions flattened and extended in line with the flat ends of the rollers to form bearings whereby the entire outer end surfaces of the rollers will be engaged by said inwardly bent portions.

1,422,586. VEHICLE SUSPENSION. BENJAMIN LIEBOWITZ, New York, N. Y. Filed Apr. 27, 1916, Serial No. 93,837. Renewed Apr. 17, 1917. Serial No. 162,757. 6 Claims. (Cl. 267—25.)



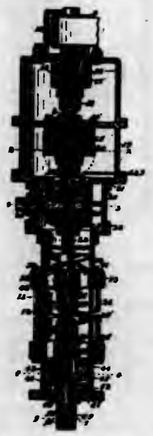
4. In a vehicle suspension the combination of an axle, a vehicle frame, a pair of leaf springs secured to said frame and extending downwardly on opposite sides of the axle, said springs being subjected to an initial strain which is greater than the maximum subsequent strains due to relative displacements of body and axle within the limits of the spring design, and a pair of tension members connecting the lower ends of said springs to the axle.

1,422,587. VEHICLE SUSPENSION. BENJAMIN LIEBOWITZ, New Rochelle, N. Y. Filed July 31, 1919. Serial No. 314,559. 7 Claims. (Cl. 267—20.)



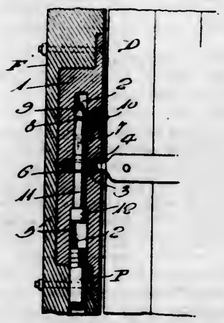
2. In a vehicle suspension, a bell crank carried by the frame, an initially strained spring in which the subsequent stress variations due to relative displacement of body and axle are substantially within the nonfatiguing range of the spring material, said spring having one end fixed to the frame and having the other end connected with an arm of the crank, a tension member connecting the other arm of the crank with the axle, and a second tension member connecting the axle with the frame.

1,422,588. DEEP-WELL PUMP. ELIJAH D. MCDONALD, Los Angeles, Calif. Filed Feb. 2, 1921. Serial No. 441,920. 7 Claims. (Cl. 253—182.)



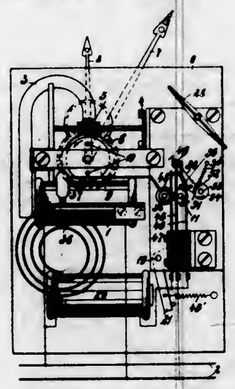
1. In a pump, the combination of a rotatable shaft having a steam passage extending downward through said shaft, means for admitting steam thereto, screw impellers on said shaft, a casing surrounding said shaft and impellers and comprising a plurality of casing sections, circular members disposed between said sections and having an annular shaft guide supported by said circular members, packing means on said guide, means for securing each circular member to adjacent circular members, said members provided with water passages having their outer perimeter of lesser radius than the screw impellers, a suction cage fixed to the lower end of said casing, a water-tight compartment within said casing, a thrust bearing disposed within said suction cage and adapted to center such shaft.

1,422,589. CAR-DOOR LOCK. JOHN D. MCQUISTON, Sioux City, Iowa. Filed June 4, 1921. Serial No. 474,903. 3 Claims. (Cl. 292—33.)



1. A car door lock comprising a casing for permanent connection to the car body, a hasp for connection to the door, a temporary locking device in said casing for cooperation with the hasp, means for retaining said device in inoperative position, and a second fluid operated permanent locking device also designed for co-operation with the hasp, said second device serving to automatically move said first device to inoperative position when said second device is rendered operative.

1,422,590. CLOCK. PAUL MANSEL, Siemensstadt, near Berlin, Germany, assignor to Siemens & Halske A. G., Berlin, Germany, a Corporation of Germany. Filed Feb. 6, 1917. Serial No. 146,939. 2 Claims. (Cl. 58—38.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

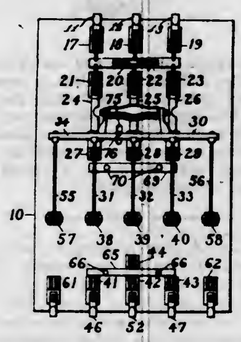


1. In an electrically actuated lock in combination a rack strike work, an electromagnet adapted to only drive said strike work, an armature actuated by said magnet, means permanently connected to said armature and operated by the same for lifting the striker, retarding means, permanently connected to said lifting means, and means for releasing the striker from all its operating elements when it has reached its uppermost position.

1,422,591. ALLOYS OF ALUMINIUM AND PROCESS OF PRODUCING THE SAME. ANTON MANHART, Vienna, Anatria. Filed Aug. 12, 1920. Serial No. 403,156. 4 Claims. (Cl. 75—1.)

1. A hard, non-brittle, castable aluminum alloy having manganese, copper and tin as ingredients thereof, the amount of the aluminum present in the said alloy being in excess of the amount present of any other ingredient of the said alloy.

1,422,592. COMPENSATING STARTING SWITCH. VAN N. MARKEL, Chicago, Ill. Filed Oct. 23, 1919. Serial No. 332,659. 10 Claims. (Cl. 172—179.)



2. The combination with a three wire feed line, a motor and compensating coils connected to a common terminal, of a multiple blade, double throw switch hinged to the motor circuit terminals for directly connecting said motor circuit to the line in the running position of the motor, and having auxiliary blades cooperating with the main blades for connecting said motor circuit terminals in divided circuits with said coils and to said common terminal in the starting position of the switch and arranged to completely disconnect said coils from all the wires of said line when the switch is in its running position.

1,422,593. HAIR CURLER AND WAVER. ALFRED V. P. MARTIN, Brooklyn, N. Y. Filed Apr. 9, 1921. Serial No. 459,969. 4 Claims. (Cl. 132—41.)



4. As an article of manufacture, a hair curler and wever, comprising a frame member and a locking member, the latter being formed of a single piece of spring material doubled up to provide two normally overlying parts, the bend of the piece forming an elongated eye slidingly and pivotally engaging one end of the frame member, the said parts of the locking member being adapted to be pried apart to receive a portion of a bunch of hair between them, the free end of the one member being adapted to be interlocked with the free end of the other member to clamp another portion of the same bunch of hair between the members.

1,422,594. PIN-TUMBLER LOCK. MAXWELL C. MAXWELL, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 2, 1921. Serial No. 497,939. 6 Claims. (Cl. 70—47.)



1. A pin tumbler lock comprising a cylinder and a plug, said plug comprising two parts having interlocking connection with each other, one of said parts made of hardened metal and constituting an armor head.

1,422,595. CYLINDER LOCK. MAXWELL C. MAXWELL, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Mar. 29, 1922. Serial No. 547,814. 2 Claims. (Cl. 70—46.)

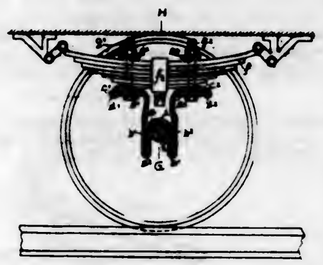


2. The combination with a lock cylinder having recesses in its peripheral wall, of an armor cap or facing on the end of the cylinder, ears projecting from said armor cap or facing and entering said recesses in the cylinder wall, and fastening devices passing through said ears and entering the cylinders.

1,422,596. EMERGENCY BEARING FOR RAILWAY CARS. FERDINAND MEHLIS, Berlin-Buchholz, Germany. Filed Dec. 28, 1921. Serial No. 525,440½. 2 Claims. (Cl. 105—224.)

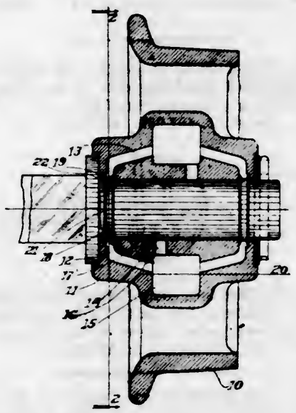
2. An emergency bearing for railway cars, comprising, in combination, a structure consisting of a middle part

forming an inverted U, legs extending upwards from the sides of said middle part, and horizontal flanges extending



from the upper ends of said legs to opposite directions; and means for affixing said structure to the bearing-springs of a railway car.

1,422,597. WHEEL. FREDERICK B. MILLER, Scottdale, Pa. Filed Apr. 27, 1920. Serial No. 376,964. 1 Claim. (Cl. 64—26.)



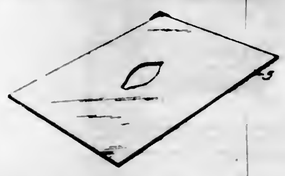
A self-lubricating wheel with a hub, a bearing portion in the hub for receiving an axle, an annular groove in the hub surrounding the axle and adjacent to the end of the hub, said groove provided with a counterbore in the side of the groove adjacent to the end of the hub, a ring in the groove hugging around the axle, said ring having two outwardly extending flanges, one of said flanges concentric within the counterbore means by which a lubricant flows to the bottom or periphery of the groove communicating with the bearing portion.

1,422,598. FRICTIONAL BUSHING COUPLING. LINDSAY WILSON MISENHEIMER, Great Falls, S. C. Filed Oct. 27, 1921. Serial No. 510,692. 6 Claims. (Cl. 287—52.)

1. In a coupling of the character described, the combination of a shaft, with an inner split bushing keyed to the shaft, an outer bushing, an element mounted upon the outer bushing, said outer bushing with the element thereon being mounted upon the inner bushing, and an adjusting means between the element and the inner bushing for rigidly connecting the parts together and causing the outer bushing to compress the inner bushing and bind it upon the shaft.

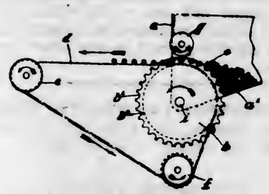


1,422,599. ORNAMENTING DEVICE AND METHOD. HARRY CECIL MITCHELL, Yonkers, N. Y. Filed Apr. 4, 1921. Serial No. 458,449. 5 Claims. (Cl. 41—26.)



1. Means for ornamenting surfaces comprising a stencil plate of colored material capable of being abraded having a pattern cut therein, and a buffer operable to abrade and remove particles of the material forming the plate and to apply the same to the surface to be ornamented.

1,422,600. APPARATUS FOR COLLECTING AND CONVEYING CIGARETTES OR THE LIKE. WALTER EVERETT MOLINA, London, England. Filed July 7, 1920. Serial No. 394,585. 5 Claims. (Cl. 131—39.)



4. In apparatus for collecting and conveying cigarettes and other articles and in combination, a hopper for the articles, a rotary cylinder having flutings to engage with the articles in the hopper and provided with peripheral grooves, endless moving conveyor chains mounted in the peripheral grooves in the fluted cylinder, and means for positively driving said chains at a higher peripheral speed than that of said cylinder.

1,422,601. BUCKET FOR HANDLING LOOSE MATERIALS. LEDLIE D. MOORE, Newtonville, Mass. Filed June 17, 1920. Serial No. 389,572. 14 Claims. (Cl. 37—30.)

1. In a material handling bucket, the combination of a pair of jaws, each comprising a shell having an end plate, and a pair of side plates having portions constituting arms projecting up beyond the shell, means pivotally connecting the upper ends of the arms of one jaw with the arms of the other jaw; and stiffening and strengthening means for each jaw including braces extending downward from the arms, inward toward each other and to the end

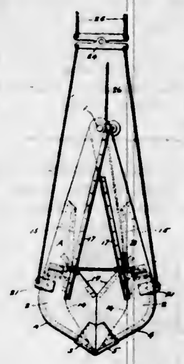
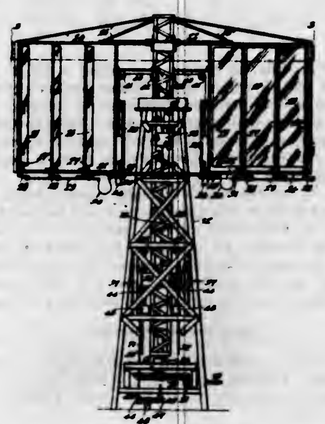


plate of the shell, said braces being rigidly secured to said arms and end plate, and together with the side plates and end plate forming a triangular system of bracing for the jaw.

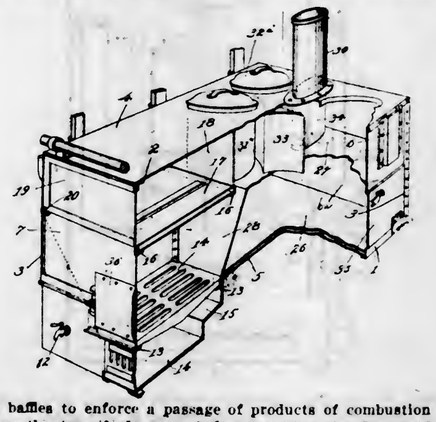
1,422,602. WINDMILL. RAY MORRIS, Niagara Falls, N. Y. Filed Apr. 15, 1920. Serial No. 374,027. 9 Claims. (Cl. 170—26.)



1. A motor of the character described, comprising a horizontal wheel, an upright rock shaft journaled in the wheel and having a crank, an upright vane carried by said shaft, a horizontally-swinging adjusting lever mounted on said wheel and connected with said crank, and means for actuating said lever.

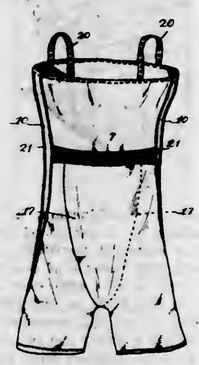
1,422,603. ROLLING KITCHEN. JAMES MORRISON, Cincinnati, Ohio, assignor to The Trailmobile Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 22, 1920. Serial No. 367,736. 3 Claims. (Cl. 126—276.)

1. In a rolling military kitchen, the combination of a substantially rectangular frame and shell, with the interior of the shell at the rear divided into a fire box, two water compartments and a cooker above the fire box and the interior of the shell at the front divided into a single oven transverse the shell having a back wall forming part of the fire box, a plurality of supports for vessels for cooking formed in the top of the shell, a flue for the escape of products of combustion, vessels for cooking on the supports, said vessels presenting their lower surfaces



as baffles to enforce a passage of products of combustion over the top of the oven before reaching the flue, said cooker division of the fire box terminating short of the oven back wall, whereby the vessels receive direct heat and the oven top does also.

1,422,604. UNDERGARMENT. EDWARD B. MOWER, Chicago, Ill., assignor to The Futurist Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 19, 1920. Serial No. 425,034. 2 Claims. (Cl. 2—144.)

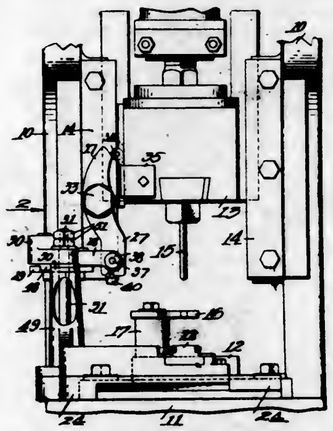


1. A garment of the character described, comprising a front section consisting of a single piece of fabric extending the full length of the garment, and forming the front of the leg portions thereof, upper and lower back sections substantially less in width throughout the upper and waist portions of the garment than said front sections, and relatively narrow side sections of inelastic fabric inserted between said front and back sections, and tapering from the upper and lower edges thereof toward the waist line.

1,422,605. PRESS-FEEDING MECHANISM. WILLIAM H. NEEDHAM, Worcester, Mass., assignor to Boston Pressed Metal Co., Worcester, Mass., a Corporation of Maine. Filed Apr. 13, 1918. Serial No. 228,441. 3 Claims. (Cl. 113—113.)

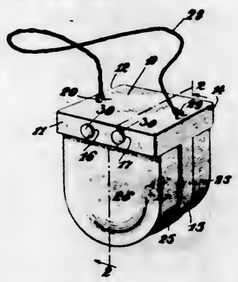
1. Press feeding mechanism having, in combination, separable holding jaws, a slide for said jaws, means to

move said slide and jaws alternately to receiving and delivery positions, an adjustable stop effective to spread



said jaws as they approach receiving position, and means to change the locus of the movement of said slide.

1,422,606. CONTAINER. EDNA A. NEIMAN, Brooklyn, N. Y. Filed Apr. 11, 1921. Serial No. 460,594. 5 Claims. (Cl. 132—83.)



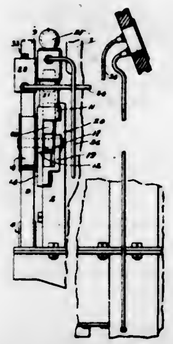
1. In a container, in combination, a body member, means for maintaining a plurality of cosmetic sticks within the body, an extended partition carried by the body, two containers, each capable of retaining a powder compact and each formed of a side wall and a bottom, pivotally attached to the body at opposite sides of the partition and capable of pivotal movement with respect to each other and means whereby the two containers may be maintained in parallel position with their open tops facing each other.

1,422,607. PIN. ADOLF NONNENMANN, New York, N. Y. Filed Mar. 24, 1919. Serial No. 284,534. 1 Claim. (Cl. 132—52.)



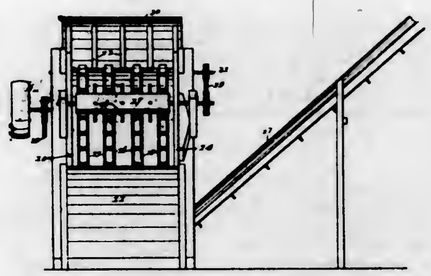
A hair pin constructed of a single length of material and comprising a pair of converging inclined legs, having contact with each other at their extremities, a pair of V shaped portions projecting inwardly from the top of the pin towards said extremities, the outer legs of the V shaped portions being parallel with the converging legs, an inverted V shaped portion provided intermediate of the pair of V shaped portions, said inverted portion forming a spring to hold the extremities of the legs resiliently in contact and projections extending from the junction of the converging legs and the pair of V shaped portions, adapted to be grasped to compress the inverted intermediate spring portion to open the extremities of the converging legs.

1,422,608. LUBRICATING DEVICE FOR AUTOMOBILES. CARL V. NORD, Seattle, Wash. Filed Aug. 9, 1921. Serial No. 490,972. 1 Claim. (Cl. 184—27.)



An oil circulating pump, comprising a block member having a plate portion with a flange projecting laterally therefrom and of predetermined contour adapted to fit a portion of an engine casing, said plate portion having a bearing therein, a bracket secured to the plate portion and extending upwardly to form a bearing in alignment with the first-mentioned bearing, a shaft mounted in the bearings; the block member being formed into a pump above the plate portion and having a piston mounted to reciprocate therein, means on the shaft between the bearings for operating the piston in the rotation of the shaft, a pulley mounted on the shaft beyond the plate portion, and connections with the crank case of an engine whereby oil may be circulated therein.

1,422,609. CORN-HUSKING MACHINE. GUSTAVUS NORGREN, Centerville, S. Dak. Filed Dec. 21, 1920. Serial No. 432,282. 5 Claims. (Cl. 130—5.)



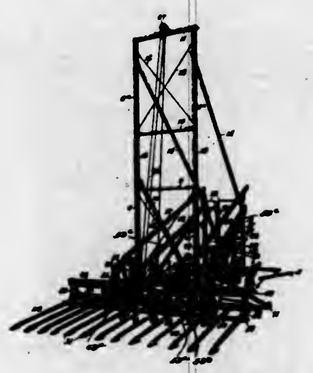
1. A corn husking apparatus having an ear feeding mechanism provided with an endless apron or belt, husking mechanisms having chutes for receiving the ears in endwise progressive position, and ear positioning means located adjacent to the delivery end of the feed mechanism for disposing the ears in parallelism with the direction of progress, said positioning means consisting of a rotary drum disposed axially in transverse relation to the movement of the apron of the feed mechanism and provided with fingers for engaging the ears carried by said apron.

1,422,610. RETAINING CLIP. JOSEPH J. O'BRIEN, Springfield, Mass. Filed Feb. 5, 1920. Serial No. 356,523. 12 Claims. (Cl. 24—11.)



1. The combination with a pen cap or the like having an encircling groove of a retaining member having a band in gripping relation to the cap or the like and a lug interlocked with said groove.

1,422,611. AUTOMATIC HAYSTACKER. LUCY OERTLI and CASPER OERTLI, Hamilton, Mont., and HENRY TURNELL, Elm Creek, Nebr. Filed July 13, 1920. Serial No. 395,840. 12 Claims. (Cl. 214—133.)



1. A haystacker comprising a vehicle, an upright frame erected on one end of the vehicle, said frame being hinged intermediate of its height, and upper and lower braces for holding the frame upright and permitting the folding of the upper section toward the lower section, the upper braces being disconnectible from the upper part of the frame.

1,422,612. RECORD CABINET FOR TALKING MACHINES. JOHN BROWNING OGDEN, Lynchburg, Va. Filed Mar. 21, 1921. Serial No. 454,075. 4 Claims. (Cl. 45—52.)

1. In a record cabinet designed to support a talking machine thereupon, said cabinet having substantially the same width and length as the talking machine and provided with legs, side panels and a door with no top, a four-sided open frame seated within and secured to the cabinet below the upper edges of the panels and door, the



said upper edges of the panels and the door being shaped to fit the underside of the molded base of the talking machine, and constitute the support for the same.

1,422,613. CONVERTIBLE STAND AND TABLE. JOHN B. OGDEN, Lynchburg, Va. Filed Dec. 27, 1921. Serial No. 525,027. 4 Claims. (Cl. 45—92.)

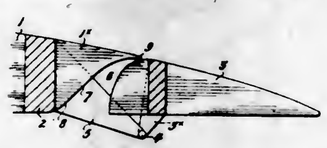


1. A convertible stand designed to support a talking machine thereon and present the appearance of a unified structure, or to be used as a table when the talking machine is removed, said stand having no top but being of substantially the same width and length as the talking machine, and comprising corner legs, a series of transverse rails connecting the legs at the top and forming therewith a rectangular support for the machine, said rails and said legs each having their upper edges formed with a bead, which beads are in alinement and form a continuous flange around the top of the stand, thereby providing a seat for the reception of either the base of a talking machine or a removable table top, said machine or said top closing the upper part of the stand when either is in use.

1,422,614. MEANS FOR BALANCING AND REGULATING THE LIFT OF AIRCRAFT. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed Dec. 6, 1921. Serial No. 520,420. 4 Claims. (Cl. 244—29.)

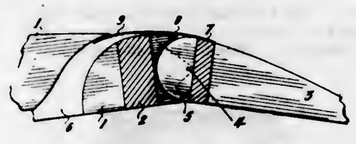
1. In laterally balancing or regulating the lift of the wings of aeroplane flying machine; the combination with

said wings, of flaps located at the rear edges of said wings, hinge members to support said flaps, and means extending from the structure of said wings to support said hinge members in such position relatively to said



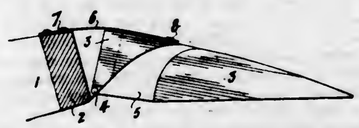
wings and said flaps, that a slot is formed between the forward edge of each of said flaps and the rearward edges of said wings when said flaps are turned downwards about their hinges, and said slot is closed when said flaps are in their normal or upturned positions.

1,422,615. MEANS FOR BALANCING AND REGULATING THE LIFT OF AIRCRAFT. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed Dec. 6, 1921. Serial No. 520,421. 5 Claims. (Cl. 244—29.)



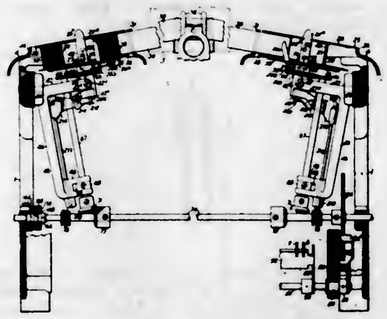
1. In laterally balancing or regulating the lift of the wings of aeroplane flying machines; the combination of flaps located at the rear edges of said wings, hinge members to support said flaps, means extending from the structure of said wings to support said hinge members, said wings having a slot from the under surface to the upper surface of said wing structure adjacent the leading edge of each hinged flap, said slot extending in length transversely to the line of flight, and means connected to and operable by said flap to close the opening of said slot in said wing structure when said flap is either in its normal or upward position, and to open said slot when said flap is moved into its turned down position.

1,422,616. MEANS FOR BALANCING AND REGULATING THE LIFT OF AIRCRAFT. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed Dec. 6, 1921. Serial No. 520,422. 4 Claims. (Cl. 244—29.)



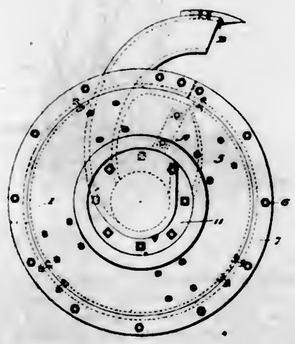
1. In laterally balancing or regulating the lift of the wings of aeroplane flying machines, the combination of flaps located at the rear edges of said wings, hinge members located adjacent the forward end of each flap and connected to the main wing structure to pivotally support sad flap, said flap having a slot extending from the under surface and adjacent the forward end of said flap to the upper surface of said flap, said slot extending in length transversely to the line of flight, and means in operative connection with the main wing structure to open said slot in said flap when the latter is turned into its downward position to admit of the passage of air through said slot from the under surface to the upper surface of said flap and to close said slot when said wing flap is in its normal or raised positions.

1,422,617. TYPEWRITING MACHINE. JOSEPH PHELPS, North Caldwell, N. J., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Apr. 9, 1921. Serial No. 459,902. 14 Claims. (Cl. 197—160.)



1. In ribbon reversing mechanism for typewriting machines, the combination of a ribbon spool, a reversing device controlled by the ribbon on said spool, a gravity operated lever, a slide pin connecting said lever with said device, a reversing pin suspended from said lever, a ribbon driving shaft, and a worm connected thereto, said reversing pin co-operating with said worm.

1,422,618. DRUM FEEDER. GORDON T. POLLARD and OSCAR H. JOHNSON, Denver, Colo., assignors to The Mine & Smelter Supply Company, Denver, Colo., a Corporation of Colorado. Filed Aug. 5, 1919. Serial No. 315,560. 6 Claims. (Cl. 83—9.)

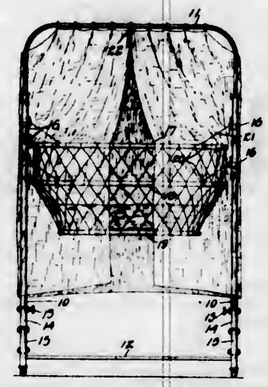


1. In a rotary feeder, a combined internal and external scoop cast in a single piece with a partition between the two, so that the feeds therethrough are kept separate and distinct until they reach the outlets of the scoops.

1,422,619. BASSINET. ALESSANDRO POMILIO, New York, N. Y. Filed Oct. 3, 1921. Serial No. 505,055. 7 Claims. (Cl. 5—56.)

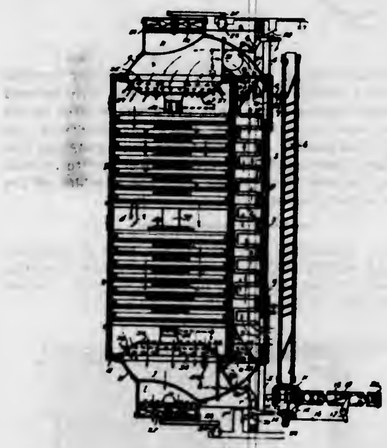
2. In a knock-down bassinet, a basket and a supporting frame therefor, said frame comprising a pair of tubular

uprights each resting on a supporting structure and a U-shaped member extending through the supporting struc-



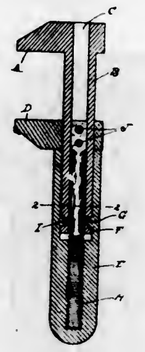
ture and into the lower end of each side member, substantially as set forth.

1,422,620. DEHYDRATOR OR DRIER. DUDLEY P. POWER, Portland, Oreg., assignor of one-third to Everett P. Babcock and one-third to Frank Delano, both of Portland, Oreg. Filed June 21, 1921. Serial No. 479,218. 9 Claims. (Cl. 34—39.)



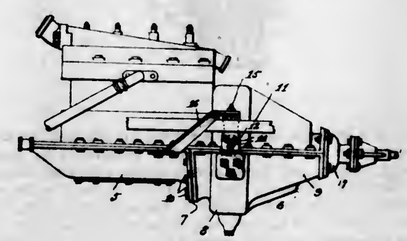
1. A dehydrator or drier comprising a drying chamber, an ante-chamber at each end of the drying chamber, such ante-chambers communicating on one side with the exterior of the drying chamber and on the other side with the exterior air, gates controlling the exterior air ports of said ante-chambers, fans adapted to cause currents of air to pass through said ante-chambers and said drying chamber, means for preheating the air admitted into said ante-chambers, automatic means adapted to operate said gates relatively to the predetermined movement of the air, and in time therewith to control the action of the devices for effecting the movement of the air through said drying chamber, the means controlling the air moving devices being adapted to reverse the latter at predetermined periods.

1,422,621. WRENCH. ARTHUR A. PREVOST, Detroit, Mich. Filed Jan. 23, 1922. Serial No. 531,091. 3 Claims. (Cl. 81—174.)



1. A wrench comprising a jaw member, a bifurcated shank extending therefrom and provided with notches adjacent to its end, a hollow handle member sleeved upon said bifurcated shank and having an inwardly extending flange engageable with said notches when the furcations are sprung inward, said handle being also provided with a threaded socket, a jaw member sleeved upon said shank member, a member insertable between the furcations of said shank member, being threaded for engagement with said threaded socket, and a cross connection between said last-mentioned member and the jaw member which is sleeved upon the shank, whereby the rotation of said handle will adjust said jaw member.

1,422,622. UNDERCASING FOR MOTOR-VEHICLE ENGINES. ROBERT DEE RIDDLE, Spartanburg, S. C. Filed Dec. 2, 1921. Serial No. 519,394. 6 Claims. (Cl. 180—64.)

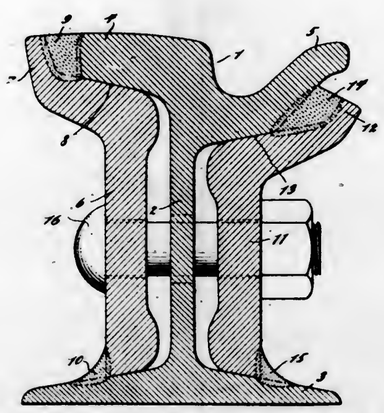


1. In combination with a supporting frame, an engine casing consisting of an upper part and a lower part, this lower part being divided transversely, means for securing the adjoining edges of the divided parts together, and a hanger means for the two parts consisting of independent hangers for said two parts, one of said hangers consisting of two separable parts bolted removably together.

1,422,623. WELDED RAIL JOINT. ELY M. T. RYDER, Yonkers, N. Y. Filed Jan. 27, 1922. Serial No. 532,180. 9 Claims. (Cl. 238—164.)

1. In combination, alined rails having at their tops laterally-extending flanges, a fish-plate less in length than

either adjacent rail having a surface engaging the under sides of said flanges and extending outwardly and upwardly adjacent thereto past the plane of such surfaces



and forming with said flanges upwardly-facing grooves, and welding material within the grooves welding the side of said plate to the sides of said flanges.

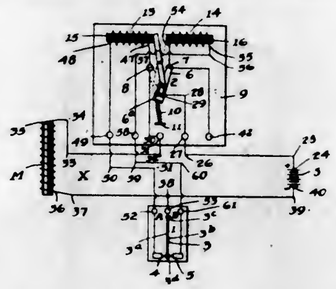
1,422,624. POULTRY ROOST. FRANK C. SCHLINGLOF, Kenton, Ohio, assignor to The Corona Manufacturing Company, Kenton, Ohio, a Corporation of Ohio. Filed Sept. 27, 1920. Serial No. 412,962. 4 Claims. (Cl. 119—25.)



1. In a device of the type described, the combination of a disinfectant container and a perch adapted to be superposed thereon, said perch having means embedded therein to limit the rising of the oil or disinfectant under the capillary action with respect to the poultry-roosting surface or portion of said perch, and means integral therewith and depending into and adapted to automatically transfer said disinfectant from said container for destroying vermin.

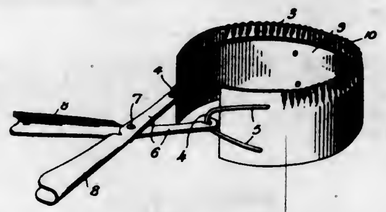
1,422,625. ELECTRICAL CONTROL APPARATUS. CARL SCHWAATZ, New Rochelle, N. Y., assignor to Vapor Car Heating Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 27, 1918. Serial No. 219,368. 3 Claims. (Cl. 175—375.)

1. In combination, a thermostatically-operated initial switch, a main switch comprising a pair of fixed contacts and a movable contact, electrically operated means the circuit of which is controlled by said main switch, a pair of solenoids each being provided with a winding the energization of which is controlled by said thermostatically-operated initial switch, a common armature for said solenoids slidably connected to said movable contact member and a spring anchored at one end and having its other end attached to said movable contact member for assisting the



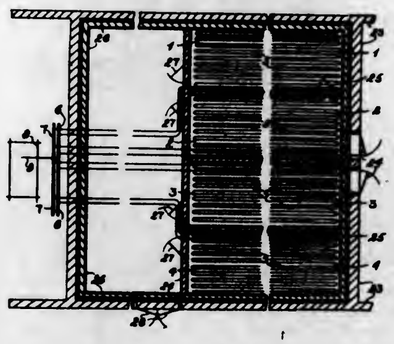
solenoid armature in actuating the movable contact member from one fixed contact to the other when either of said solenoids is energized.

1,422,626. FRUIT-JAR HOLDER. LEWIS H. SHANK, Paradise, Pa. Filed Aug. 13, 1920. Serial No. 403,270. 1 Claim. (Cl. 81—32.)



A combined fruit jar holder and closure remover therefor comprising a flexible metallic band, a pliable strip secured on the inner surface of the band, eye pieces secured to the respective ends of said band, tongs engaging said eye pieces for contracting and expanding the band, and the upper edge of said band being crimped whereby to provide a bearing element for engaging with the shoulder of the jar, substantially as set forth.

1,422,627. PROCESS OF CHILLING AND FREEZING ANIMAL SUBSTANCES. JOHN COUTTS SHAW, Pretoria, Transvaal, South Africa. Filed Sept. 5, 1918. Serial No. 252,772. 9 Claims. (Cl. 99—14.)

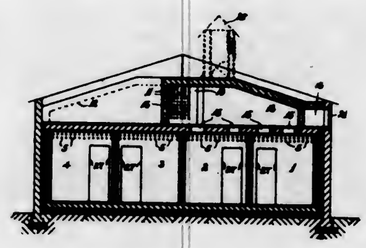


2. A process such as described which consists in continuously withdrawing for approximately ten hours air and

vapors from the chamber containing the meat under conditions forming a partial vacuum, simultaneously chilling the meat and finally freezing it.

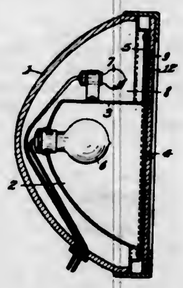
9. A process such as described which consists in chilling the meat in a chamber, continuously withdrawing air and vapors from the chamber under conditions forming a partial vacuum, then continuously circulating one and the same body of air through the chamber under substantially atmospheric pressure, continuously cooling the circulating air, simultaneously chilling the meat and finally freezing the meat.

1,422,628. APPARATUS OR PLANT FOR CHILLING AND FREEZING ANIMAL SUBSTANCES. JOHN COUTTS SHAW, Pretoria, Transvaal, South Africa. Original application filed Sept. 5, 1918, Serial No. 252,772. Divided and this application filed Mar. 11, 1920. Serial No. 365,112. 3 Claims. (Cl. 62—99.)



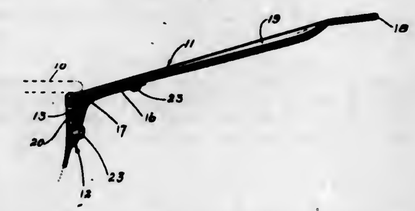
1. Apparatus for chilling and freezing animal substances, comprising a chamber, means for withdrawing air from the chamber, means for cooling the air withdrawn from the chamber, means for controlling the flow of the withdrawn air to either pass it to the atmosphere or to return it to the chamber, and means in the chamber for freezing the animal substances.

1,422,629. COMBINED HEADLIGHT AND DIRECTION INDICATOR. WALTER H. SHEEHAN, Steubenville, Ohio. Filed Sept. 1, 1921. Serial No. 497,469. 1 Claim. (Cl. 40—132.)



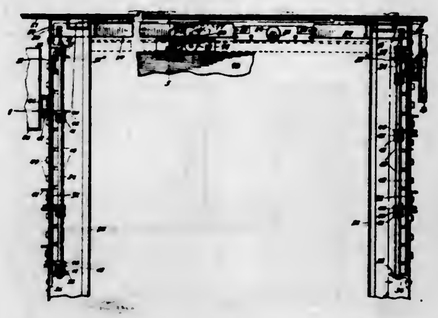
A combined head light and direction indicator comprising a lamp casing, a reflector disposed within said casing, a lamp located within said reflector, said reflector having a substantially horizontal upper wall extending to the front of said casing, said wall being located slightly above the axial plane of said casing and being adapted to intercept and reflect downward substantially all of the upwardly directed rays from said lamp, a lamp disposed within said casing above said wall, said reflector having formed integral therewith an upright wall forming a non-transparent shield located in front of the last mentioned lamp, said shield having openings cut therein in the form of direction indicia, and a covering of transparent material for said openings, said shield and said covering being of corresponding color.

1,422,630. HANDLE. JOSEPH FREDERICK SMART, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Aug. 30, 1919. Serial No. 320,767. 5 Claims. (Cl. 53—1.)



1. A handle comprising an attaching member provided with a body portion having a flange adapted to engage against and be secured to a utensil, an outwardly extending boss located inside of said flange, and a tang extending outwardly from said boss; and a handle portion overlying and secured to said tang and also having a tang fitting within the recess provided by said boss and secured to said boss.

1,422,631. DESK-DRAWER LOCK. ION A. STAFFORD, Jamestown, N. Y. Filed Sept. 22, 1920. Serial No. 412,072. 12 Claims. (Cl. 45—94.)

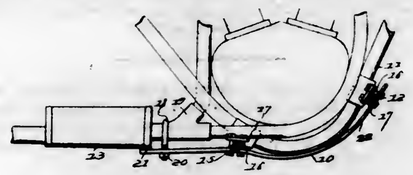


5. In a desk drawer lock, the combination with a desk frame and a plurality of desk drawers arranged therein, of a vertical rock shaft mounted in said frame, a plurality of locking dogs vertically adjustable on said rock shaft and adapted to lock said drawers, a rocking plate pivotally mounted on said frame coaxially with said rock shaft and provided with a vertical row of retaining devices for said locking dogs, and means for actuating and locking said rocking plate.

1,422,632. GUARD FOR MOTOR CYCLES. ROY STENDEL, Magdalena, N. Mex. Filed July 13, 1921. Serial No. 484,399. 3 Claims. (Cl. 208—140.)

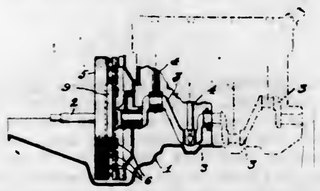
1. A guard for motorcycles and the like having an arcuate plate extended longitudinally beneath the vehicle

frame from the front foot rest bar to the muffler and conforming substantially to the shape of the lower side



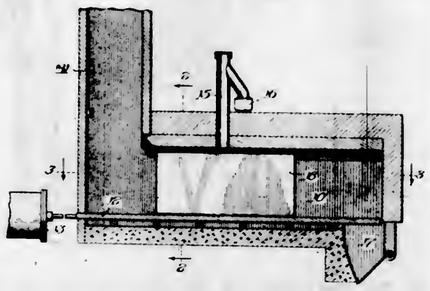
of the frame, means being provided for securing said plate to the foot rest bars.

1,422,633. COUNTERBALANCE FOR THE CRANK SHAFTS OF INTERNAL-COMBUSTION ENGINES. FRANK O. STEARETT, Rochester, Nev. Filed Aug. 11, 1921. Serial No. 491,630. 4 Claims. (Cl. 74—6.)



1. The combination with the crank shaft of a multi-cylinder internal combustion engine having its cranks disposed in the same plane, and a fly wheel mounted thereon, said fly wheel being counter-weighted in such manner that the counter-weighted portions are disposed thereon with respect to said cranks at substantially 90° intervals.

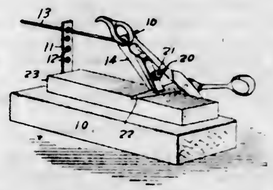
1,422,634. RETORT. LELAND L. SUMMERS, Chicago, Ill. Filed Aug. 12, 1920. Serial No. 402,944. 11 Claims. (Cl. 202—9.)



1. A coke oven comprising a retort having relatively large side wall area as considered in relation to the floor area, a reciprocating floor in said retort, means for feeding material to one end of said floor and for restraining the material against movement except in a direction toward the retort, and means for increasing the frictional resistance between the floor and the material.

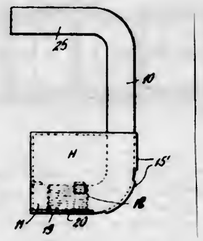
1,422,635. GRINDING MECHANISM. ARTHUR O. S. TAYLOR, Billings, Mont. Filed Dec. 27, 1920. Serial No. 433,258. 1 Claim. (Cl. 51—158.)

A base, a vertical standard attached to said base near the end of said base forming an abutment for an abrasive stone on said base, said standard having a vertical series of holes, a rod of smaller diameter than said holes, the rod adapted to reciprocate in either of said holes, and a



transverse clamp adjustably attached to one end of said rod to hold a blade against the upper surface of said stone.

1,422,636. CONCRETE INSERT. CHARLES C. TOMKINSON, Plainfield, N. J., assignor to J. Edward Ogden, Mountainville, Town of Cornwall, N. Y. Filed June 8, 1921. Serial No. 475,849. 5 Claims. (Cl. 72—105.)



1. A concrete insert comprising a bar having a ledge through which there is an opening, a housing extending over the opening, said housing comprising a pair of side walls and a roof, flanges bent over from the walls into contact with the bar whereby relative displacement between the bar and housing in one direction is prevented, and means extending from the side walls over the ledge for preventing displacement of said parts in the opposite direction.

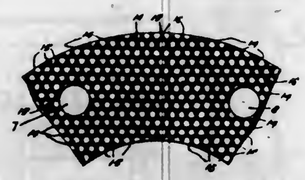
1,422,637. SPOKE-TIGHTENING SHIM. JESSE D. TUCKER, Sacramento, Calif., assignor to Tucker Brothers Manufacturing Company, Sacramento, Calif., a Copartnership. Filed Feb. 27, 1922. Serial No. 539,661. 4 Claims. (Cl. 301—81.)



1. A spoke tightening shim comprising a flat member adapted to be placed about the tenon of a spoke, and yieldable prongs punched from the shim and projecting beyond one face thereof.

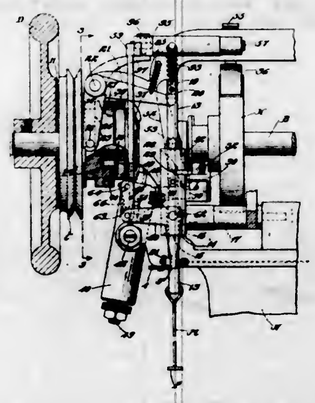
1,422,638. FLEXIBLE COUPLING. GUSTAV A. UNGAR, Pelham Manor, N. Y. Filed July 23, 1920. Serial No. 398,401. 4 Claims. (Cl. 64—96.)

3. A device of the character described comprising, in combination, a driving and a driven member, each including a spider having arms symmetrically disposed around the axis of rotation at angles of less than 180° relative to each other, the arms of one spider alternating with those of the other around said axis, and a flexible torque transmitting element attached to each of said arms, said flexible element comprising a plurality of layers of fabric



secured together and forming a single flat ring or disk-like member, each of said layers composed of three sets of strands interwoven with each other, the sets of strands arranged at angles of less than 180° relative to each other and parallel to the lines of pull between the arms of one spider and those of the other, respectively.

1,422,639. STOP MOTION FOR SHOE-SEWING MACHINES. FELIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Filed July 31, 1916. Serial No. 112,230. 34 Claims. (Cl. 112—219.)

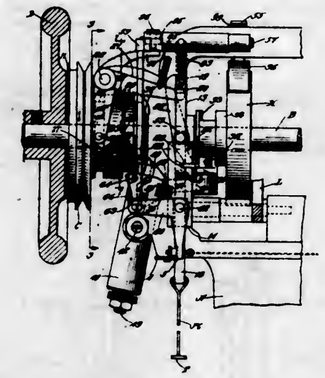


1. In combination with a machine including stitching mechanism, driving mechanism therefor, a stop motion which acts on the driving mechanism to increase the speed of the machine and then to stop it, and mechanism acting on the stop motion to prevent it stopping the machine except during a predetermined part of the cycle of operation of the stitching mechanism.

1,422,640. STOP MOTION. FELIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Original application filed July 31, 1916, Serial No. 112,230. Divided and this application filed Oct. 31, 1917. Serial No. 199,402. 17 Claims. (Cl. 192—116.)

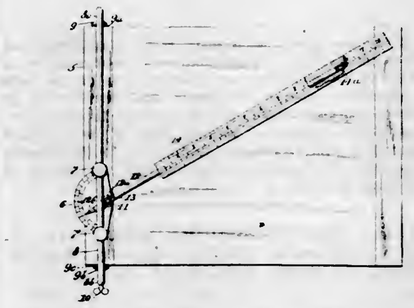
1. In a machine of the class described, in combination, a shaft, variable speed drive mechanism therefor, invariable speed drive mechanism, brake mechanism for

said shaft and devices constructed and arranged to cause said shaft to be driven momentarily at a predetermined



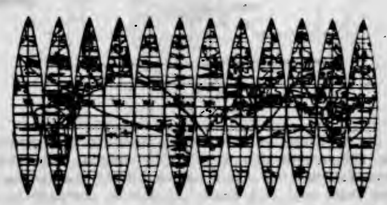
speed by said invariable speed drive mechanism immediately prior to the stopping thereof.

1,422,641. DRAFTING INSTRUMENT. CHARLES A. WALTERS, Marion, Iowa. Filed May 3, 1921. Serial No. 466,590. 4 Claims. (Cl. 33—76.)



1. A drafting instrument, comprising a protractor, a guide on which it is slidably mounted, a rod adapted to serve as a straight-edge and angle indicator pivoted at the protractor center, a clamping nut to bind the rod in position, and a slidable scale mounted revolubly on said rod.

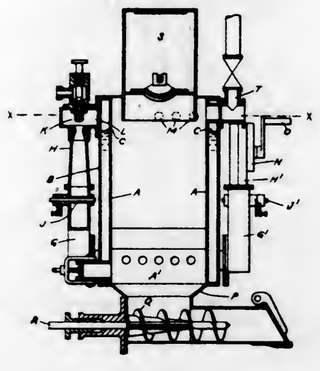
1,422,642. RUBBER GLOBE. ELIZABETH MARY WALTERS, Hove, England. Filed Nov. 1, 1920. Serial No. 421,151. 3 Claims. (Cl. 35—5.)



1. The method of producing a rubber globe for use as an educational toy consisting in the employment of a

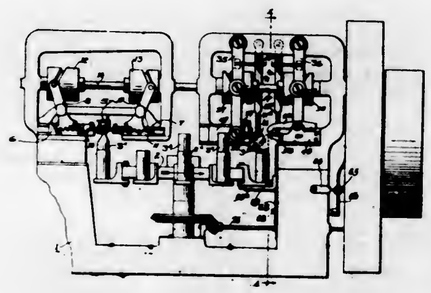
hollow air filled rubber ball, the surface of which is divided into a number of lunes, extending from pole to pole, the markings being produced by lithographic transfers in the form of paper gores corresponding to the shape of the lunes, the paper only being afterwards removed.

1,422,643. GAS PRODUCER. JOHN WELLS, Cairo, Egypt. Filed Nov. 1, 1919. Serial No. 335,079. 2 Claims. (Cl. 48—67.)



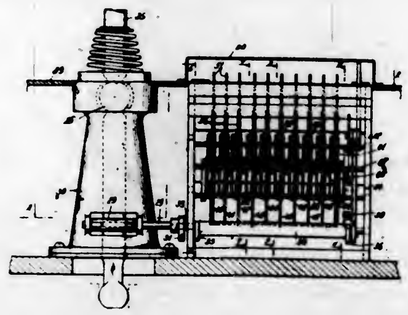
1. In a gas producer, a body comprising inner and outer shells forming a space adapted to receive water, a plurality of tubes carried at opposite sides of the body and extending through said space and terminating in the inner and outer shells, twyers mounted in said tubes, air manifolds arranged at opposite sides of the body and connected to said twyers for feeding air to the interior of the body, and means for controlling the supply of air through the twyers.

1,422,644. TUBE-CLOSING MACHINE. ISAAC W. WEPPLO, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 337,007. 15 Claims. (Cl. 113—1.)



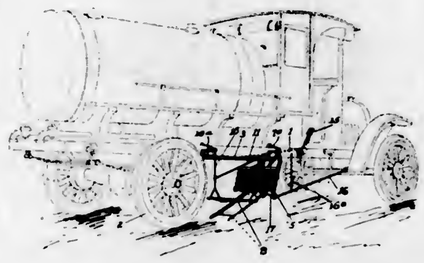
1. In a collapsible tube closing and clip fastening machine, the combination with a tube carrying turntable, a cam shaft relatively timed and a folding mechanism operated from said cam shaft; of devices operated by the cam shaft and co operating to align, seat and press a clip over the fold of the tube after the clip has been loosely dropped on the tube.

1,422,645. PERMUTATION LOCK. JAMES O. WILSON, Jersey City, N. J. Filed Oct. 26, 1920. Serial No. 419,619. 31 Claims. (Cl. 70—53.)



1. In a lock of the character described, a bolt, locking tumblers therefor, connecting means between said tumblers operative to bring the tumblers to a predetermined position when the tumblers are actuated in a prearranged order, and actuating devices for the respective tumblers.

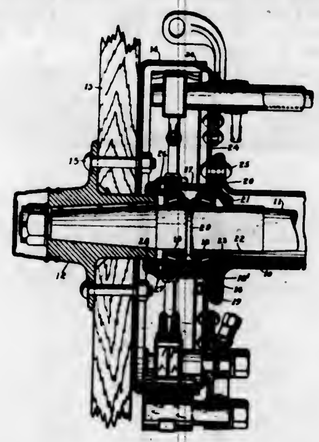
1,422,646. ANTISKID DEVICE. GEORGE D. WINTERS, Sanger, Calif. Filed Aug. 9, 1920. Serial No. 402,403. 6 Claims. (Cl. 188—4.)



1. An anti-skid attachment for vehicles comprising a mat normally and releasably hung from the frame of the vehicle clear of the ground on each side thereof, guides fixed to the frames under each mat and projecting downwardly in the plane of the wheels, hinged extensions on the lower ends of the guides, said guides and extensions when in alinement projecting toward the point of contact of the wheels with the ground, but the extensions being normally raised out of such alinement, and means whereby when the mat is released the extensions will be simultaneously released to move in alinement with the guides.

1,422,647. AXLE. THOMAS ZIMMERMAN, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 14, 1919. Serial No. 304,123. 2 Claims. (Cl. 74—56.)

1. In axle construction, the combination of an axle housing having an integral radial flange at the end, an extension having a radial flange and an axially extending flange surrounding said housing flange, a brake anchor member mounted upon said extension in abutting relation



to one of said radial flanges, and means for securing said member and said radial flanges together.

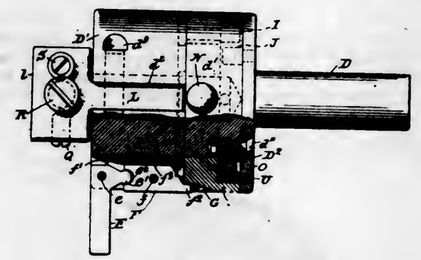
1,422,648. METHOD OF PRODUCING RIM BOARDS. ALLAN A. ADAMSON, Brooklyn, N. Y., and WILLIAM F. GAUPP, Hudson Heights, N. J. Filed June 17, 1918. Serial No. 240,463. 2 Claims. (Cl. 93—40.)



1. The method of forming built-up rectangular boxes, comprising feeding a continuous length of board in substantially flat relation, feeding a continuous length of finish paper in approximate relation to the fed flat length of board, affixing the finish paper to the board while in flat relation and providing an extension of the finish paper projecting laterally of the board length, severing the length of the board having the finish paper affixed thereto, while in flat relation and of a length equal to the perimeter of the box part, discharging the severed length of board having the finish paper affixed thereto in flat relation and thereafter folding the severed length to form the box part and affixing the extension of the finish paper to contiguous parts of the box.

1,422,649. SELF-OPENING KNURLING TOOL. EMMANN BACH, Woonsocket, R. I. Filed July 25, 1921. Serial No. 487,335. 5 Claims. (Cl. 80—5.1.)

5. A self-opening knurling-tool device, comprising a shank adapted to be held rigidly in the turret of a screw-machine, tiltable knurling-tool holding members carried by said shank, springs also carried by said shank and engaging said members to tilt the tool-holding ends thereof away from the work, a rotatable cam-ring carried by said shank and engageable with said tool-holding members to tilt the tool-holding ends thereof toward the work, a spring motor operatively associated with said shank and said cam-ring for moving the latter to release said tool-holding members, a tiltable latch fulcrumed on said shank and engageable with said cam-ring to hold the same against rotation under

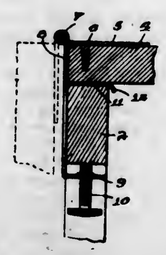


the influence of said motor, and a tripping-member pivoted to said shank and engaging said latch for tilting the same to release said cam-ring.

1,422,650. OVERHEAD WIRE TRANSPORT SYSTEM. WILLIAM L. BARTON, Vancouver, British Columbia, Canada, assignor of forty-five per cent to John L. Kerr, Vancouver, British Columbia, Canada. Filed Sept. 24, 1921. Serial No. 502,862. 8 Claims. (Cl. 104—112.)

3. An overhead transportation system wherein a loop of the track rope passes around a sheave at the outer end of the track and the ends are wound on separate reels of a hauling mechanism, which mechanism has provision by which the line may be wound or unwound simultaneously on or off both rtels.

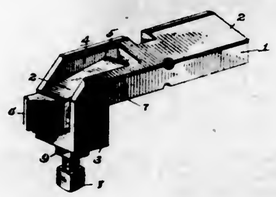
1,422,651. HINGE. WILLIAM C. BAXTER, Rochester, N. Y., assignor to Edward M. Trimble, doing business as The E. M. Trimble Manufacturing Company, Rochester, N. Y. Filed Jan. 22, 1921. Serial No. 439,266. 1 Claim. (Cl. 16—149.)



A hinge comprising a member provided with two spaced portions projected from one face thereof, one of said portions extending from one end of the member and the other extending from a point in spaced relation to both ends, a second member pivotally connected to the first named member at the end opposite from which the first mentioned portion projects and adapted within one extreme position to lie at right angles to the member and in spaced

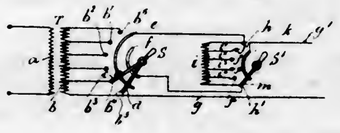
relation to the last mentioned portion, and when in another position to lie parallel with the first mentioned member, and a clamping device arranged on the portion at the end of the first mentioned member.

1,422,652. THREAD-CUTTING TOOL. NAPOLEON BENOIT, Watervliet, N. Y. Filed Sept. 6, 1919. Serial No. 322,147. 2 Claims. (Cl. 29—96.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



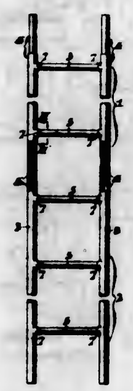
1. A thread cutting tool, including a holder formed with an angular extension, said holder and extension provided with a recess, the recess extending vertically entirely through the holder, a cutting tool formed with a plurality of cutting teeth mounted in the recess and pivotally connected to the holder and means carried by the extension for adjusting the cutting tool.

1,422,653. ELECTRICAL TRANSFORMER FOR REGULATING OR VARYING THE VOLTAGE OF THE CURRENT SUPPLIED THEREFROM. FREDERICK EDMUND BEARY, Hayes, England. Filed Dec. 27, 1918. Serial No. 268,506. 1 Claim. (Cl. 171—119.)



In an electrical transformer, the combination with one of the secondary windings of said transformer provided at intervals along its length with leads dividing said winding into sections, and a supply conductor connected to one end of said winding, of voltage regulating means comprising consecutively arranged stationary terminal contacts connected to said leads and arranged in a substantially common plane, two insulated stationary segmental contacts also in a substantially common plane, two movable switch arms insulated from each other and constantly bearing on the respective segmental contacts and adapted to simultaneously bear against any two adjacent terminal contacts so as to connect the interposed section of the winding across the segmental contacts, an auto-transformer winding having its ends connected across said segmental contacts, a series of insulated terminal contacts connected to the ends and to intermediate portions of the auto-transformer winding, and a supplementary movable switch arm in constant electrical connection with a second supply conductor and adapted to be brought into connection with any of the terminal contacts connected to the winding of the auto-transformer, substantially as described.

1,422,654. LADDER AND PROCESS OF MANUFACTURING THE SAME. WALTER A. BILGER and ALAN C. WALKER, Philadelphia, Pa., assignors to The American Pulley Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 20, 1921. Serial No. 471,185. 6 Claims. (Cl. 228—55.)



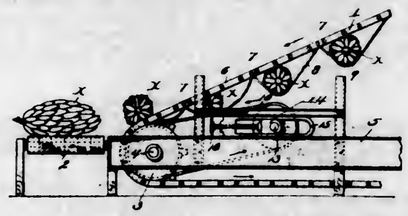
1. A metallic ladder comprising tubular side rails, each provided at intervals with pairs of spaced integrally formed lips, projecting outward, and a series of tubular rungs respectively inserted into the tubular rails between opposed pairs of lips and welded thereto.

1,422,655. BEARING AND METHOD OF MAKING SAME. WILLIAM G. H. BREHMER, Cleveland, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 2, 1920. Serial No. 407,786. 9 Claims. (Cl. 29—149.5.)



1. In a method of making bushings, the steps which consist in extruding a cylindrical tube provided with a series of longitudinally extending grooves, and then filling such grooves with a lubricant.

1,422,656. BANANA UNLOADER. JAMES BRENNAN, New Orleans, La. Filed Aug. 5, 1921. Serial No. 490,030. 5 Claims. (Cl. 98—185.)



1. In an unloading apparatus of the class having a travelling conveyer provided with depending pockets to contain articles, a travelling member operating adjacent to the conveyer and gradually engaging the pockets thereof while the conveyer advances to thus lift articles contained in the pockets.

1,422,657. LIFE RAFT. HARRY W. BROADY, Bayside, N. Y., assignor to American Balsa Company, Inc., a Corporation of New York. Filed Jan. 4, 1919. Serial No. 269,691. 5 Claims. (Cl. 9—11.)



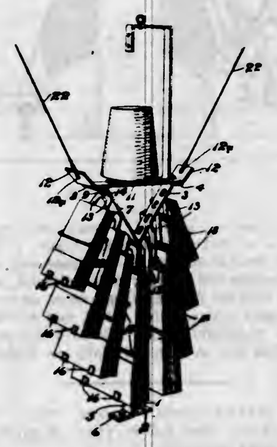
1. A raft composed of a series of layers of light pithy wood which has been treated to make the same waterproof, said layers being connected together by dowels suitably driven into said layers in wedging relationship to hold the same together and a series of reinforcing plates embedded in said light pithy wood between adjacent layers thereof.

1,422,658. NECKTIE RETAINER. LLOYD B. BROOKS, Philadelphia, Pa., assignor to George K. Thorman, Joseph W. Lassen, Leon C. Heller, and Lloyd B. Brooks, Copartners, trading as Stay-Rite Mfg. Co., Philadelphia, Pa. Filed Aug. 21, 1920. Serial No. 404,984. 5 Claims. (Cl. 24—85.)



3. A shirt-front necktie retainer comprising a pair of slightly divergent overlapping resilient leaves with an attenuated crotch at their junction adapted to wedge upon and grip a shirt-front edge, and a fine, springy, flexible, necktie-piercing and retaining pin with its shank anchored to one of said leaves near one end thereof and its point free and extending forward and outward from near the free end of said leaf.

1,422,659. BAG HOLDER. ELVAH O. BULMAN, Grand Rapids, Mich. Filed Feb. 28, 1921. Serial No. 448,714. 8 Claims. (Cl. 211—2.)



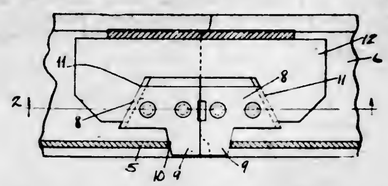
1. In combination, a support comprising two bars located against each other and formed at their lower ends with oppositely located out-turned foot portions and at their upper ends with portions bent outwardly and upwardly at an angle to the vertical and away from each other, each of said last mentioned portions terminating in horizontal end parts, and each being formed in its length with a plurality of spaced apart outwardly struck tongues, bolts passing through the two bars to detachably connect the same together, a horizontal bar formed at its ends with outwardly and upwardly turned portions connected detachably to the upper ends of the first bars, and bag holders detachably suspended one from each tongue, substantially as described.

1,422,660. LOOP-FORMING TERMINAL CLAMP. GEORGE P. BUMP, La Crosse, Wis. Filed Apr. 15, 1922. Serial No. 553,102. 4 Claims. (Cl. 24—129.)



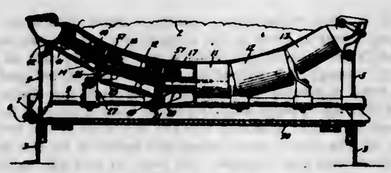
1. A terminal clip or clamp comprising a tube to be slipped along a wire bent upon itself to form a loop; said tube having an open slot at one end into which the free end of said wire may be bent laterally, and the ends of the slot walls at the open end of the slot being constructed to be closed inwardly behind said laterally bent end to lock it in place.

1,422,661. DEMOUNTABLE VEHICLE WHEEL RIM. HARRY E. BUTCHER, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 30, 1917. Serial No. 199,228. 4 Claims. (Cl. 301—15.)



1. The combination of a wheel; a demountable rim therefor of the transversely split type; a stop on said wheel adapted to locate said rim thereon; a transversely movable plate adapted to be inserted between said rim and wheel so as to support the former in spaced relation on the latter, said plate being formed to laterally engage said rim to force the same against said stop and also being formed to engage the ends of said rim and draw the same together; and other interengaging means on said wheel and rim-ends, respectively, adapted to draw the latter together.

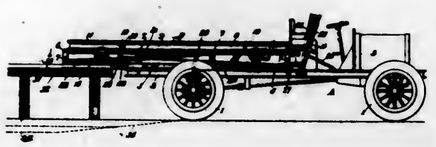
1,422,662. TROUGHING PULLEY FOR BELT CONVEYERS. FRANS IVAR L. BYLGER, Jersey City, N. J. Filed June 3, 1919. Serial No. 301,486. 25 Claims. (Cl. 198—192.



23. A supporting bracket for adjacent belt supporting pulleys, having an inclined web extending between the pulleys and shaped so as to deflect the dust passing from one pulley away from the adjacent pulley.

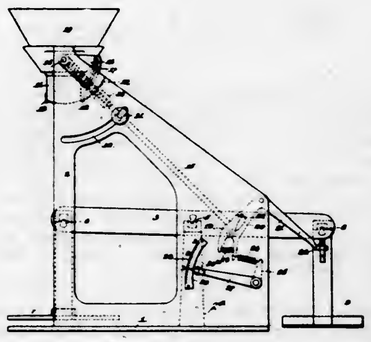
25. In a conveyer belt support, spaced bearings, a shaft mounted therein, a pulley having a tapering hub mounted on said shaft and extending between said bearings, the diameter of the smaller end of the hub being less than the diameter of the bearing adjacent thereto, and the diameter of the larger end of said hub being greater than the diameter of the bearing adjacent thereto.

1,422,663. LOADING AND UNLOADING MEANS AND PORTABLE BODY FOR TRUCKS. ABNER F. CALLISON, Buffalo Creek, Colo. Filed Dec. 24, 1920. Serial No. 432,982. 17 Claims. (Cl. 214—38.)



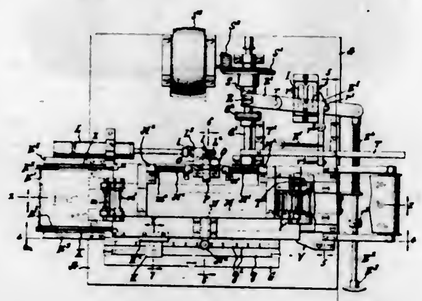
1. A removable-body truck comprising a vehicle, and a removable body carried thereby, in combination with a track or support for the removable body, and a depressed runway for the vehicle below the track, whereby the body is automatically lifted from the vehicle by the support when the vehicle is progressively moved along the runway.

1,422,664. AUTOMATIC SCALE. HUGH CAMERON, Newark, N. J., assignor to Robert D. Kent, Passaic, N. J. Filed Nov. 15, 1919. Serial No. 338,308. 24 Claims. (Cl. 249—1.)



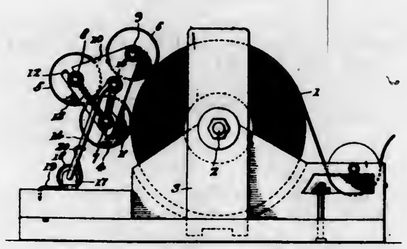
22. A scale comprising a frame, a beam pivoted in the frame, a tray carried by the beam at one side of the pivot, a weight carried by the beam at the opposite side of the pivot, a chute for delivering material to be weighed to the tray, a pivoted valve cooperating with the chute, an arm adapted to pivot with the valve, a lever pivoted to the frame, said lever engaging beneath the beam at the weight side of the beam pivot when the beam is in the inert position, said arm engaging the lever to lock the valve in open position, a spring for withdrawing the lever from engagement with the arm to release the valve, means for adjusting the tension of the spring, means independent of the beam for closing the valve, and a stop for limiting the movement of the valve.

1,422,665. FILM-TESTING MACHINE. GASTON LOUIS CHANIER, Jersey City, N. J., assignor to Pathe Exchange, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 5, 1921. Serial No. 490,054. 34 Claims. (Cl. 95—75.)



33. Apparatus of the character described, comprising an electric light, and an electric circuit therefor, a partition with a light aperture therein, means for passing the negative film and the positive film to be printed in superposed relation past said aperture, and means controlled by said last mentioned means for varying the intensity of the light passing through said aperture, comprising a series of resistance coils included in the electric circuit, and a bridge moving with said films and closing the electric circuit successively through said resistance coils.

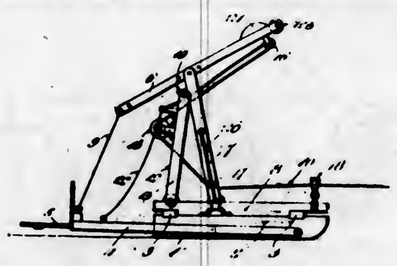
1,422,666. TAPE OR WEB PRINTING MACHINE. OWEN LEE CHENAUTT, Atlanta, Ga. Filed Apr. 18, 1921. Serial No. 462,317. 4 Claims. (Cl. 101—213.)



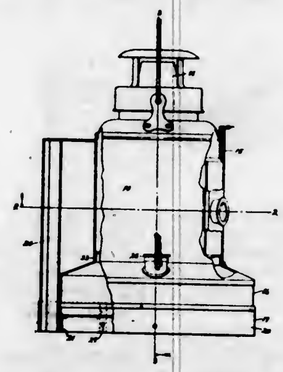
1. In combination, a stand, a paper roll supported in the stand, a bracket affixed to the stand, a drum journaled in the bracket over which the paper web is led from the roll, printing and blotting rollers bearing on the web as it passes over the surface of said drum, an inking roller in contact with said printing roller, and means for supporting and yieldingly urging said printing and blotting rollers against the web, substantially as described.

1,422,667. HAYSTACKER. JOSEPH FRANK CHLADEK, Niobrara, Nebr. Filed Jan. 27, 1921. Serial No. 440,436. 9 Claims. (Cl. 214—131.)

1. A device of the class described comprising a base, a swinging standard mounted thereon, a rocking beam carried by the standard, a load-carrier having connection with said beam, and means for first acting on the latter and moving it approximately through a half circle so that it will assume a predetermined vertical position without affecting a movement of the standard, said means serving then to swing the standard and beam as a unit toward the discharge end of the device.

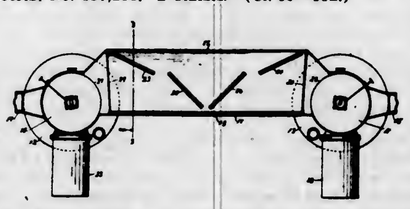


1,422,668. SIGNAL LAMP. CHRISTIAN A. CHRISTOFFERSON, St. Paul, Minn. Filed Sept. 30, 1919. Serial No. 327,487. 5 Claims. (Cl. 240—22.)



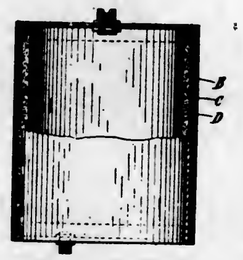
1. In a signal lamp, a font comprising a cup having an exterior bead, a composite supporting ring surrounding said cup and comprising inner and outer rings secured together, the outer ring extending above the inner ring, said exterior bead resting upon the top edge of the outer ring and the lower corner of the cup resting upon the top edge of the inner ring.

1,422,669. ILLUMINATED SIGNAL. CHRISTIAN A. CHRISTOFFERSON, St. Paul, Minn. Filed Mar. 31, 1921. Serial No. 457,281. 2 Claims. (Cl. 40—132.)



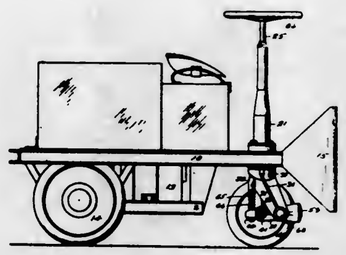
1. A signal comprising, in combination, a casing, a lamp at each end of said casing adapted to illuminate its interior, a signal in the front of said casing out of range of the direct rays from said lamp and comprising a plurality of diaphanous characters, a plurality of reflectors in the casing each arranged to receive the direct rays from one of said lamps and to reflect such rays upon one of the signal characters, and signals separate from said first-named signal, each illuminated by direct rays from one of said lamps.

1,422,670. RECEPTACLE, FLEXIBLE CONDUIT, GAS MASK, AND THE LIKE. CHARLES ANGUS CLEGHORN, Bedfordshire, England, assignor to The Gayner Pneumatic Company, Limited, London, England. Filed Dec. 26, 1918. Serial No. 268,429. 19 Claims. (Cl. 154—46.)



1. A petrol-container made of a substance which as normally employed would be attacked by the petrol but which is coated with Turkish birdlime, to prevent such attack, substantially as described.

1,422,671. SPRING STEERING FORK FOR WHEELED VEHICLES. CLYDE E. COCHRAN, Cleveland, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 27, 1919. Serial No. 279,516. 8 Claims. (Cl. 280—92.)

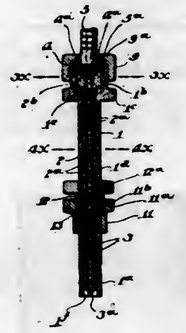


2. The combination of a bifurcated member, means for guiding and turning it, a yoke having a pair of arms and a connecting portion, a wheel mounted on an intermediate portion of the yoke between the arms thereof, said yoke arms being pivoted to the bifurcated member on one side of the wheel axis, there being extensions of the yoke on the other side of the wheel axis, pins extending downwardly from the bifurcated member and rigidly carried thereby, and passing freely through the extensions of the yoke and having stops on their lower ends.

1,422,672. THERMOCOUPLE. THOMAS G. COGHLAN, Wellsburg, W. Va. Filed Mar. 9, 1921. Serial No. 451,025. 8 Claims. (Cl. 171—73.)

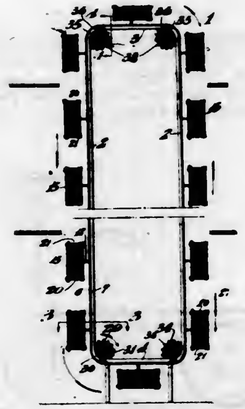
1. A thermo-couple comprising different metals forming a union and means comprising an open chamber for

housing said union so as to permit its exposure to heat transfer from gaseous products of combustion and prevent



its ignition of an unexploded fluid adapted for providing such gaseous products.

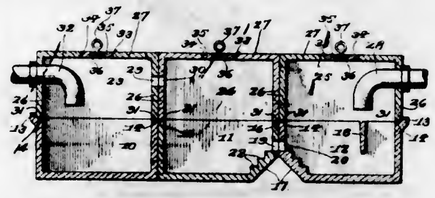
1,422,673. PARCEL AND PACKAGE ELEVATOR OR CARRIER. JAMES COLLINS, Lancaster, Pa. Filed July 1, 1921. Serial No. 481,806. 9 Claims. (Cl. 198—129.)



1. In a device of the character stated, a lower driving shaft, outer sprocket wheels fast thereon, inner idler sprocket wheels loose on said shaft, an outer endless apron driven by said outer sprocket wheels, an inner endless apron in mesh with said idler sprocket wheels upper sprocket wheels for said aprons, bars secured at intervals to one of said endless aprons, and baskets secured to said bars.

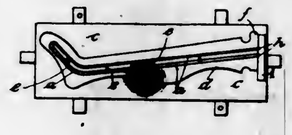
1,422,674. SETTLING AND SEPTIC TANK. EDWARD F. COOK, Freeport, N. Y. Filed Mar. 21, 1922. Serial No. 545,412. 2 Claims. (Cl. 210—6.)

1. A septic tank for sewage comprising a plurality of tanks, a cover for each tank, communication between two adjacent tanks, communication between two other adjacent tanks, through the covers thereof, a baffle in one of the tanks for receiving sewage thereagainst and for breakage thereof, a rising series of solids breaking means leading to the first communication, a descending series of solids breaking means leading from the first com-



munication, means for conveying liquids from the device, and means for leading sewage to the device and discharging same against the said baffle.

1,422,675. MEANS FOR MANUFACTURING CASTINGS FOR SHAPING AND DRYING HOSIERY. ALBERT EDWARD COTTOM, East Brunswick, near Melbourne, Victoria, Australia. Filed Apr. 26, 1921. Serial No. 464,531. 1 Claim. (Cl. 22—124.)



A mould for the purposes specified having a steam passage formed by shaped piping therein, means at the top of the mould providing a pathway transverse to the ends of the pipe, the ends of the pipe being also at the top of the mould and leading into the pathway substantially as described.

1,422,676. DRINKING-GLASS HOLDER. BOLESLAW V. CZARNECKI, Schenectady, N. Y. Filed Mar. 11, 1922. Serial No. 542,967. 2 Claims. (Cl. 248—22.)



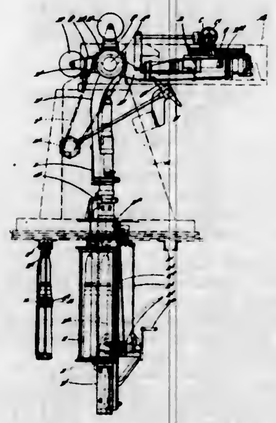
1. A holder for containers of the class described comprising a body portion having means permitting the holder to be secured to a support, a spring finger on said body portion adapted to project into a container and to clamp the wall of the container, said body portion being transversely curved to form a depression in alignment with said finger affording a seat for a portion of the container, the finger clamping the container in said seat, said finger being longitudinally curved so as to engage the container wall over but a limited area.

1,422,677. METHOD OF MANUFACTURING COMPOSITE ARTICLES FOR BEARINGS OR OTHER PURPOSES. ERNEST G. DANN, Cleveland, Ohio, assignor to The Dann Products Company, a Corporation of Ohio. Filed Jan. 9, 1918. Serial No. 211,094. Renewed Nov. 10, 1919. Serial No. 337,111. 8 Claims. (Cl. 64—19.)



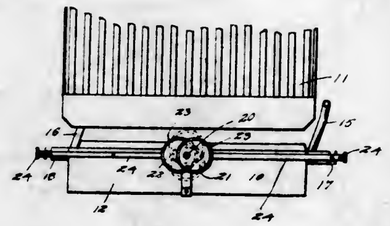
1. Method of providing a metal body with a friction reducing surface which consists in forming a plurality of non-communicating under-cut cavities in the surface of the metal body by application of an acid thereto, and filling said cavities with a solid adherent lubricant.

1,422,678. AMMUNITION HOISTING AND LOADING APPARATUS FOR ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Oct. 26, 1921. Serial No. 510,654. 40 Claims. (Cl. 89—46.)



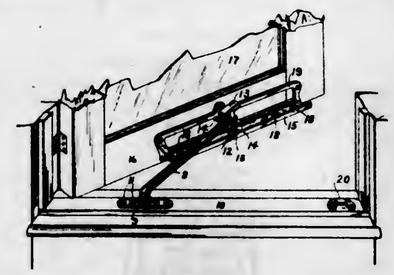
15. In ammunition hoisting and loading apparatus for ordnance, the combination of a lifting tray for raising ammunition to a position contiguous to the breech end of the gun, means for pivoting said tray so that it can move at the side of the gun about an axis transverse to the gun from a substantially vertical receiving position into a transferring position substantially parallel to the axis of the gun, a transversely movable loading tray for conveying ammunition from said lifting tray, when the latter occupies its transferring position, into a loading position in line with the bore of the gun for ramming therein, a withdrawing device on said loading tray for engaging with the ammunition in the lifting tray and withdrawing it therefrom during the movement of said loading tray towards the loading position, a curved plate carried by part of the gun cradle said plate, when the loading tray occupies its loading position, serving to bridge a gap formed in the loading tray for enabling the latter to embrace the ammunition in the lifting tray when the loading tray occupies the receiving position with said withdrawing device in position for withdrawing the ammunition from the lifting tray, means for pivoting said plate about an axis parallel to the axis of the gun, and a spring controlling said plate.

1,422,679. DRAINAGE TANK FOR AUTOMOBILE RADIATORS. WILLIAM H. DAY, Lockport, N. Y. Filed Oct. 1, 1920. Serial No. 414,149. 3 Claims. (Cl. 123—174.)



1. In combination with a water circulating means of an internal combustion engine, a drainage tank for the water in said means, said tank having inner and outer sections to provide a heat insulated space around the innermost section, a tube extending through said sections and beyond the outer section, a conduit leading from said means to said tubes, a valve operable in said tube, and means to operate said valve engageable therewith through the outer end of said tube.

1,422,680. STAY FOR CASEMENT WINDOWS. DONALD DONALD, Sydney, New South Wales, Australia. Filed July 14, 1921. Serial No. 484,598. 3 Claims. (Cl. 292—271.)

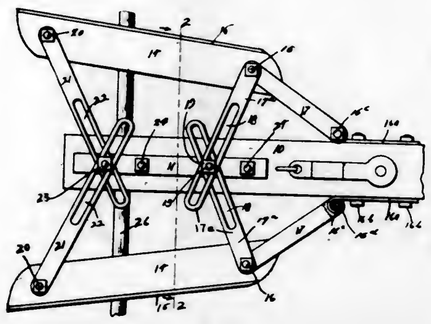


1. An improved stay for casement windows comprising an arm loosely pivoted at one end to a bracket adapted to be secured to the window frame and having at its free end a projecting tongue, a pair of laterally projecting lugs, and an operating handle; a channel-way having a plurality of holes therein and a raised back rail adapted to be secured to the casement window; and a bevelled catch member adapted to be secured to the window frame substantially as and for the purpose herein set out.

1,422,681. ADJUSTABLE REPAIR TONGUE HOUND. FRANK J. DOLTMEIER, Manning, Iowa. Filed July 6, 1920. Serial No. 394,315. 2 Claims. (Cl. 278—43.)

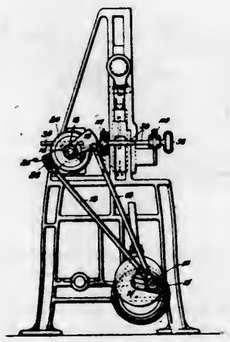
1. The combination of a tongue having flat top and bottom surfaces with bars resting on said top and bottom surfaces and fastened to said tongue, screw-threaded members secured to said plates against rotation, and extending upwardly from the top bar and downwardly from the lower bar, spaced hound members, a pair of links pivoted to the forward end of each hound member,

one member of each pair of links being adjustably mounted on the forward bolt of the upper bar, and the other member of each pair being mounted on the forward bolt of the lower bar, means for fastening said links on said bolts against movement, a pair of links pivoted to the



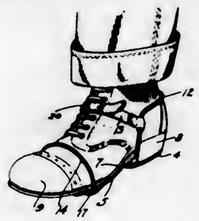
rear end of each hound member, one member of each of said latter pairs of links being adjustably mounted on the rear upper bolt, and the other member of each of said latter pairs being adjustably mounted on the rear lower bolt, and means for securing said rear links rigidly to said rear bolts.

1,422,682. MECHANICAL MOVEMENT. JOHN GUSTAV EKLUND, St. Joseph, Mich., assignor to St. Joseph Iron Works, St. Joseph, Mich. Filed Sept. 30, 1920. Serial No. 413,854. 15 Claims. (Cl. 74—54.)



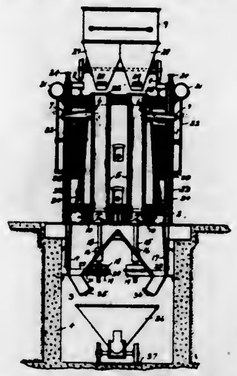
1. A mechanical movement including a driving shaft, a driven shaft, a pair of ratchet wheels secured to the driven shaft, said ratchet wheels having their teeth extending in opposite directions, a pair of pawls interposed between the ratchet wheels and driving shaft whereby the latter is connected to either ratchet wheel to turn the same, manually operated means mounted on the driven shaft for disconnecting either pawl from its respective ratchet or both pawls from both ratchets, whereby either ratchet may be turned or both ratchets may remain idle and means for adjusting or varying the extent to which either ratchet wheel is turned by each stroke transmitted from the driving shaft.

1,422,683. BOOT PROTECTOR. JOHN N. ELTGROTH, Fairmont, Minn. Filed Nov. 12, 1921. Serial No. 514,605. 6 Claims. (Cl. 36—63.)



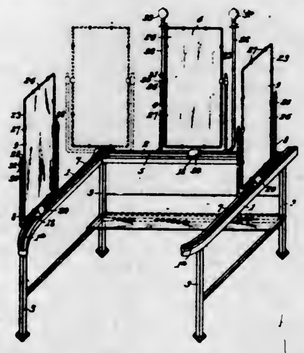
1. A boot protector having a sole plate provided with a heel-engaging shoulder, a toe bail attached to the sole plate, and a heel bail pivoted to the sole plate.

1,422,684. VERTICAL SMELTING FURNACE. FERDINAND FIECHTL, Cherryvale, Kans. Filed Jan. 28, 1921. Serial No. 440,761. 1 Claim. (Cl. 266—19.)



In a smelting furnace, vertical retorts, removable covers therefor, movable bottoms for the retorts, a manual mechanism operatively connected to each bottom through the manipulation of which it may be opened or closed, and means for introducing air under compression into the furnace around the retorts.

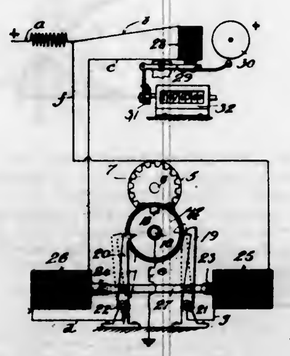
1,422,685. MIRROR STRUCTURE. CHARLES LEE FITCHET, San Francisco, Calif. Filed June 5, 1920. Serial No. 386,727. 9 Claims. (Cl. 45—99.)



1. A mirror structure comprising a frame formed to provide a partial enclosure for the person of the user,

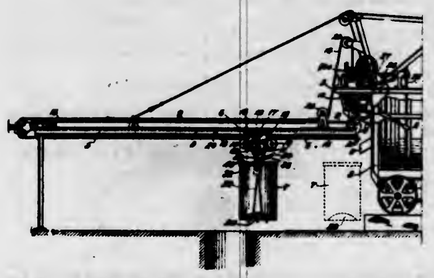
parts of said enclosing frame being shaped to form trackways, carriages movable along said trackways, each carriage having pivotally related trucks providing for free travel thereof throughout its trackway, each carriage embodying a part rotatable on a vertical axis, and a mirror carried by said rotatable part.

1,422,686. FARE-RECORDING APPARATUS. PARIS R. FORMAN, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed July 22, 1919. Serial No. 312,532. 14 Claims. (Cl. 235—45.)



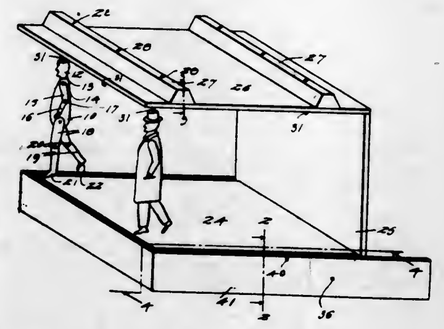
4. In a fare registering apparatus, the combination with a registering mechanism, a signal device, and electrically operated means to actuate the same, and contact devices to control the circuit of said signal actuating means, of relatively separable yieldingly connected devices operated by the registering mechanism for controlling said contacts.

1,422,687. APPARATUS FOR CONVEYING AND DELIVERING MATERIAL. DONALD FRASER and SAMUEL SHAFER, Jr., Milwaukee, and CHRISTOPHER W. LEVALLEY, deceased, late of Milwaukee, Wis., by Helen P. Levalley, Milwaukee, Wis., and Wisconsin Trust Company, a Corporation of Milwaukee, Wis., executors, assignors to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 6, 1920. Serial No. 349,777. 12 Claims. (Cl. 212—79.)



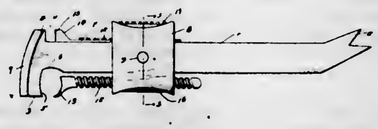
1. The combination of a track, a carriage arranged to traverse the track, a bucket capable of being discharged suspended from the carriage, means for causing the carriage to traverse the track, means for controlling the raising and lowering of the bucket relative to the carriage and means for causing the discharge of the bucket while suspended, at any position within the range of vertical movement of the bucket, over the desired place of deposit, operated by the means that control the raising and lowering thereof.

1,422,688. AMUSEMENT DEVICE. JOSEPH D. FROMAN, Vevay, Ind. Filed Dec. 8, 1920. Serial No. 429,130. 3 Claims. (Cl. 46—40.)



1. A toy consisting of an articulate figure, means to suspend said figure, an inherently rigid platform, means to pivotally mount said platform, and means to bodily rock said platform on its pivot for cooperation with the figure to impart simulative dancing movement thereto.

1,422,689. COMBINATION WRENCH. EVERETT W. FUNK, Columbus, Ohio. Filed July 29, 1921. Serial No. 488,320. 1 Claim. (Cl. 81—100.)

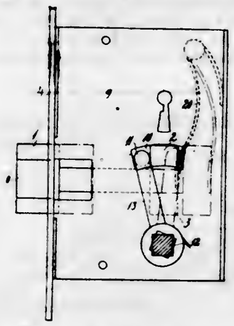


A wrench comprising a shank oppositely arranged stationary jaws formed on said shank and one of said jaws having an arcuate active face, and the other jaw having a straight active face, a housing secured to said shank, stems having feed threads slidably received by the housing and extending parallel with the shank, movable jaws carried by said stems, and one of said jaws having an arcuate active face and the other movable jaw having a straight active face, feed nuts journaled to said housing and engaging the stems for actuating the movable jaws, said housing having cut-away portions to expose the adjusting nuts, said shank having a portion arcuately curved to cooperate with the arcuate active faces of the stationary and movable jaws.

1,422,690. DOOR LOCK. ADOLF GABLENZ, Lubeck, Germany. Filed Dec. 11, 1920. Serial No. 430,036. 4 Claims. (Cl. 70—29.)

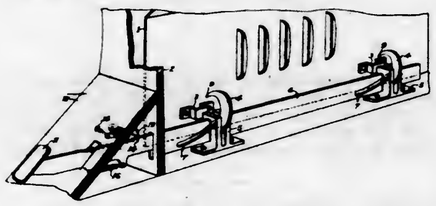
1. A latch bolt having at one end an enlarged head with side flanges with an intermediate beveled face

whereby the bolt may serve either as a right or left hand one, and at the other end a cross bar, guides for said



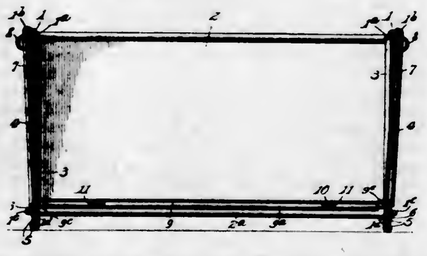
cross bar, a knob spindle, and a lever rigidly mounted thereon and having a removable head permitting the bolt to be removed and reversed.

1,422,691. HOOD FASTENER. HENRY B. GAPE, Detroit, Mich. Filed June 18, 1920. Serial No. 390,011. 4 Claims. (Cl. 292—111.)



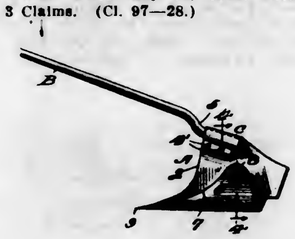
1. A locking device for an automobile hood comprising a bar mounted for longitudinal movement, a bracket guiding the movement of the bar, a hooked cam member pivotally mounted on the bracket with a portion of the cam member engaging a cam surface on the bar, and another portion of the cam member adapted to engage a movable member to hold it in locked position.

1,422,692. COLLAPSIBLE BOX. NATHAN ALLEN GIBBONS, Martins Ferry, Ohio, assignor to Whitaker-Glessner Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 11, 1921. Serial No. 483,777. 8 Claims. (Cl. 220—6.)



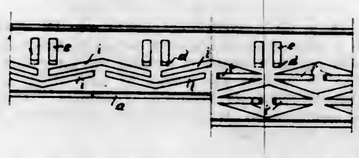
1. A collapsible sheet-metal boy comprising wire frames of substantially rectangular form, side panels having their ends attached to the side members of said frames, end panels depending from the upper horizontal members of said frames and having their lower ends extending below the lower members of said frames to form feet, a bottom having hinge-like connection with the lower portion of one of said side panels, and means formed on the opposite side panel for supporting the free lateral edges of said bottom.

1,422,693. LAWN EDGER. BENJAMIN C. GOCHENOUR, Spokane, Wash. Filed May 31, 1921. Serial No. 473,748. 3 Claims. (Cl. 97—28.)



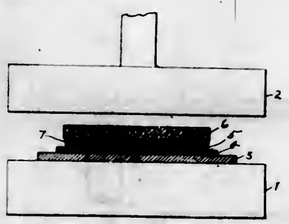
2. A lawn edger comprising a handle and a blade-member, the blade member having a trough-shaped bottom and upwardly extending side walls, the front edges of the side walls sharpened, one side wall provided at its top edge with a handle receiving socket and at its rear edge with a flat extension in the same plane as the side wall to form a shovel, for the purpose described.

1,422,694. ROLLED IRON BAR. HEINRICH GOCKEL, Neuwied-on-the-Rhine, Germany. Filed Aug. 21, 1919. Serial No. 319,042. 3 Claims. (Cl. 72—109.)



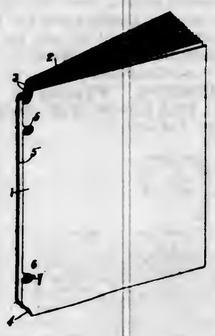
1. An iron bar provided with a body portion slitted upon angular lines with the slits alternately disposed, and overlapped and arranged in rows inclined to the longitudinal axis of the bar.

1,422,695. METHOD OF FORMING CELLULOID PRINTING PLATES. FREDERICK C. GOLDENBAUM, Kearny, N. J., assignor to International Printing Plate Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 31, 1920. Serial No. 407,280. 6 Claims. (Cl. 18—51.)



1. That method of forming a printing plate which consists in pressing a body of material rendered plastic by heat, between a mold heated to a temperature sufficient to render the material plastic, and a yieldable body of similar material.

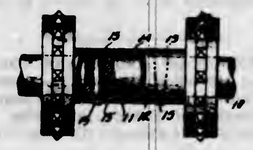
1,422,696. SYSTEM OF KEEPING NOTES. CHARLES H. GOODYEAR, Cedar Rapids, Iowa, assignor to Missouri Paper Products Company, St. Joseph, Mo., a Corporation of Missouri. Filed Oct. 29, 1917. Serial No. 198,949. 7 Claims. (Cl. 120—1.)



1. In a device of the class described, the combination, of two sections of paper, each of which is formed of a plurality of sheets of paper folded across the center thereof, a cord extended along the inner surface of the fold of each section and across the edges of both sections at the top and bottom thereof, the ends of said cord being tied together.

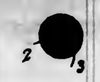
7. In a device of the class described, the combination, with a plurality of units and a plurality of process tabs, each of said units and tabs being composed of a plurality of sheets bound together, and each process tab being associated with a corresponding unit, of a binder in which the units may be permanently bound after they have been detached from their corresponding process tabs, and means for fastening said units in said binder.

1,422,697. WHEEL-SECURING DEVICE. EDWIN B. GRACE, Memphis, Tenn., assignor of one-half to Gordon Erskine, Memphis, Tenn. Original application filed Apr. 24, 1918, Serial No. 230,436. Divided and this application filed Feb. 18, 1921. Serial No. 446,132. 9 Claims. (Cl. 287—52.)



1. A hub having a sprocket at each end and means for attaching the same to a shaft comprising pairs of diametrically opposed openings in the hub one opening of each pair having screw-threads, substantially as set forth.

1,422,698. KINDLING DEVICE. HANS GROSSMANN, Zurich, Switzerland. Filed June 27, 1921. Serial No. 480,831. 6 Claims. (Cl. 44—42.)

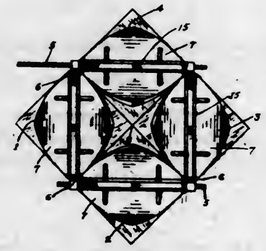


1. A match substitute, comprising a pellet having a core and an ignition coating, said core comprising a mixture of a combustible substance and a porous substance capable of leaving a form retaining skeleton after burning.

1,422,699. PROCESS OF PRODUCING PHOSPHORIC ACID. ERNEST W. GUERNSEY and JEW YAM YEE, Washington, D. C. Filed June 28, 1921. Serial No. 481,082. 6 Claims. (Cl. 23—1.)

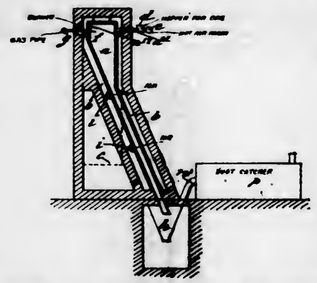
4. The process of making phosphoric acid, comprising forming an intimate mixture of phosphate rock, silicious material and carbonaceous material in such proportions that the molecular ratio of the combined CaO to the silica will be 1 : 1, forming the material so mixed into briquettes, heating the briquettes at a temperature not to exceed incipient clinkering until all the phosphorus has been expelled, forming oxides of the expelled phosphorus and recovering such oxides.

1,422,700. WATER-POWER APPARATUS. JOHN G. HACKING, Detroit, Mich., assignor of one-half to Walter Gudith, Detroit, Mich. Filed Nov. 20, 1920. Serial No. 425,306. 7 Claims. (Cl. 253—136.)



1. The combination with three or more wheels having complementary interfitting buckets rotatable through adjacent paths, of means for directing a moving fluid upon the apices of said buckets.

1,422,701. ROASTING COMPLEX ZINC SULPHIDE ORES OR THE LIKE. FRANK WILLIAM HARBORD, London, England. Filed Feb. 13, 1919. Serial No. 276,807. 7 Claims. (Cl. 75—17.)

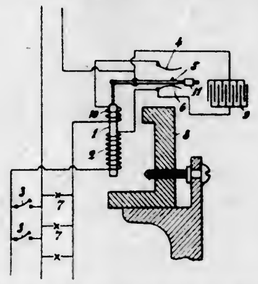


1. A process of roasting complex zinc sulphide ores or concentrates or zinc blends which consists in injecting the finely subdivided material by a blast of air against a surface within an externally heated muffle chamber which surface is heated to such a temperature as will partially roast the material at the part to the chamber where the injection occurs and then causing the material to travel within the chamber to complete the desired degree of roasting, substantially as and for the purpose set forth.

1,422,702. RETARDED ELECTROMAGNETIC SWITCH. ANDREAS MARIUS HASLEV, Randers, Denmark. Filed May 27, 1919. Serial No. 300,194. 1 Claim. (Cl. 200—97.)

In a device of the class described, an operating circuit comprising a relay coil and a stationary contact, a light-

ing circuit comprising a relay coil and a stationary contact, said coils being mounted in alinement and a core movable therein, a counterbalanced lever connected to said core and adapted to engage either contact and close the



circuit therethrough, and an adjustable permanent magnet mounted below and in alinement with said core and adapted to hold said core in one position under predetermined conditions.

1,422,703. PROCESS FOR THE MANUFACTURE OF CHROMIC OXIDE AND SODIUM SULPHIDE FROM SODIUM CHROMATE. CASIMIR JAMES HEAD, London, England. Filed Jan. 14, 1921. Serial No. 437,158. 1 Claim. (Cl. 23—13.)

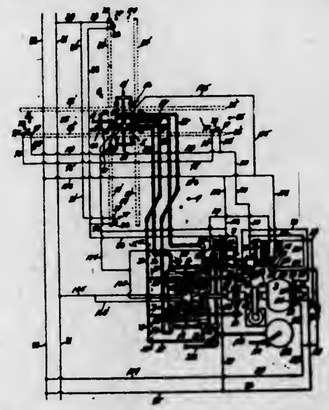
A process for the preparation of sulphur free chromic oxide (Cr_2O_3) and sodium sulphide (Na_2S) from sodium chromate (Na_2CrO_4) comprising mixing five parts of carbon (5C) two parts of sulphur (2S) with two parts of sodium chromate ($2Na_2CrO_4$) so as to produce a mixture of correct molecular proportions to produce the desired result, heating the mixture to a dull red heat in a closed chamber until the reaction is completed, treating the residue with water to dissolve the sodium sulphide (Na_2S), separating the insoluble chromic oxide (Cr_2O_3) from the solution, washing, drying, calcining and treating the said chromic oxide (Cr_2O_3) to suitably purify it and prepare it for use substantially as described.

1,422,704. OIL-WELL PACKER. CHARLES M. HEETER, Butler, Pa. Filed Sept. 26, 1918. Serial No. 255,765. 4 Claims. (Cl. 166—10.)



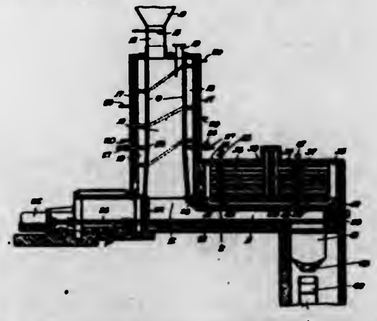
1. A well packer, comprising a casing, a tube telescopically mounted with respect to said casing, a flexible packing member surrounding said tube, flanged means detachably secured to said casing for supporting the lower end of said packing member, said flanged means being disconnected from said tube to permit movement of the tube therethrough, expanding means on said tube for expanding said packing member when the tube is moved through said flanged member into the casing, and a frangible connection between said tube and said casing permitting the tube to be removed without removing the packing member in case the packing should stick, but permitting removal of the packer as a unit in case the parts thereof do not stick, substantially as described.

1,422,705. TELEMOTOR. CHARLES A. HELFER, Los Angeles, Calif. Filed July 29, 1919. Serial No. 314,173. 18 Claims. (Cl. 138—23.)



10. In an appliance of the character described; a pair of power cylinders; pistons in said cylinders; a motor connected to and adapted to move the pistons in said power cylinders; means for starting said motor; a pair of auxiliary cylinders for each power cylinder; by-passes connecting each pair of auxiliary cylinders to their respective power cylinders; pistons in said auxiliary cylinders that are connected with a switch controlling said motor, said pistons arranged in said auxiliary cylinders so that excess pressure in said power cylinders will actuate them to stop said motor; a compound cylinder connected to said power cylinder, said compound cylinder having pistons therein that move coordinately with the pistons in said power cylinders.

1,422,706. METHOD OF AND MEANS FOR DISTILLING COAL. ARTHUR W. HELMHOLTZ, Harrisburg, Ill., assignor to Continuous Process Coke Company, Chicago, Ill., a Corporation of Maine. Filed Sept. 18, 1919. Serial No. 324,565. 13 Claims. (Cl. 202—9.)



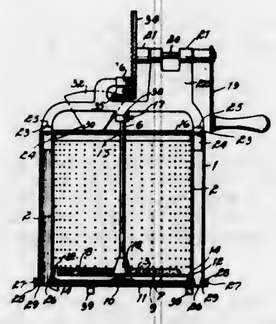
13. The method of distilling coal consisting first in heating the coal in a mass until the mass assumes a

plastic condition, during which time by-products are driven off, then adding oil to the mass to control its volatile content, then heating the mass at a higher temperature for driving off more by-products, and then compressing the mass for forming a firm coke.

1,422,707. POLISHING COMPOUND FOR FINISHING TABLE CUTLERY. GUSTAV F. HEMMING, New Haven, Conn.; Theresa L. Hemming administratrix of said Gustav F. Hemming, deceased. Filed Oct. 21, 1920. Serial No. 418,546. 1 Claim. (Cl. 51—280.)

A polishing compound for use in a tumbling barrel consisting of the waste products resulting from 1st, the glazing of the steel cutlery with fine emery, beeswax, and tallow; and 2nd, the cleansing of the cutlery in a distillate.

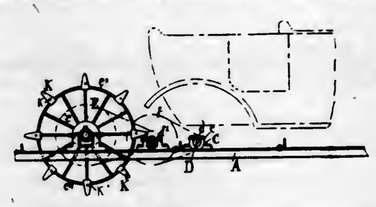
1,422,708. POTATO-PEELING MACHINE. HERBERT W. HODGDON and PANSY F. GREEN, St. Louis, Mo. Filed Dec. 5, 1921. Serial No. 519,860. 1 Claim. (Cl. 146—14.)



A machine for peeling vegetables; comprising a cutting-cylinder having cutters projecting from its inner surface; a vertical shaft mounted in said cylinder and extending therein axially from a point near the lower end of said cylinder to a point adjacent the upper end thereof; a rotary supporting, peeling and driving disk, carrying cutters which project from its upper surface, and said disk fixed upon said shaft near the lower end of said cylinder; the lower end of said cylinder being open, to permit the discharge thereat of the waste material; means for discharging a supply of water into the upper portion of said cylinder, to wash the peelings from said cutters, and discharge the same at the lower end of said cylinder; driving-means connected to the upper end of said vertical shaft, and located above the said cylinder, supporting-feet fixed to the lower end of said cutting-cylinder, to hold same a distance above the support for said feet, and provide a free passage for the waste water and peelings, between said support and the lower end of said cylinder, and an outer casing supported by said cylinder, and arranged to be detached from the latter, which may be lifted out of said casing, and be used independently thereof.

1,422,709. ATTACHMENT FOR CONVERTING MOTOR-DRIVEN CHASSIS INTO TRACTORS FOR AGRICULTURAL PURPOSES. JAMES HODGSON, Carlisle, England. Filed Mar. 8, 1918. Serial No. 221,280. 3 Claims. (Cl. 180—16.)

1. An attachment for converting a motor driven vehicle having an axle provided with a differential into a tractor for agricultural purposes, comprising an auxiliary frame to fit beneath the vehicle chassis, bearings thereon to receive the rear axle of the vehicle, a centrally placed tractor wheel at the rear of said auxiliary frame upon which said frame is supported, means connected to both ends of the



rear axle of the vehicle for locking the differential and a driving connection from said vehicle axle to said tractor wheel.

1,422,710. PROCESS OF ANNEALING MALLEABLE CAST IRON. CHARLES T. HOLCROFT, Detroit, Mich. Filed Jan. 20, 1921. Serial No. 438,608. 12 Claims. (Cl. 148—13.)

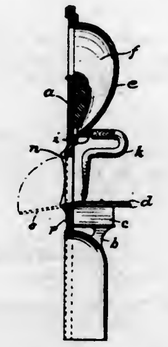


1. The method of annealing malleable iron castings which consists in exposing the material to temperatures variable in a definite progression, such progression being effective to raise the temperature of the material at a rate proportionate to the thermal conductivity to a predetermined point of reaction, to maintain reaction temperature for a predetermined time, and then to lower the temperature to a point below which rapid cooling will not injuriously affect the material.

1,422,711. PAINT. ALBERT C. HOLZAPFEL, New York, N. Y. Filed Mar. 2, 1922. Serial No. 540,589. 6 Claims. (Cl. 134—51.)

4. The process of deodorizing paints having residual pitch derived from the treatment of oils and fats as a material ingredient which comprises adding from one to five per cent of acetone thereto.

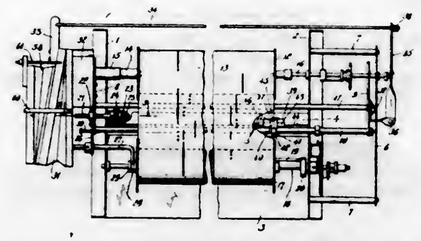
1,422,712. TALKING MACHINE. DELAWARE J. HOOD, Philadelphia, Pa. Filed Apr. 24, 1919. Serial No. 292,430. 1 Claim. (Cl. 274—2.)



A talking machine comprising a vertically disposed hinged support adapted to form a closure for a chamber, a motor casing supported on the rear side of the support, a rotary record table above the casing adapted to rotate

about a vertical axis, an amplifier mounted on the rear side of the support above the table, a sound arm connected to the lower portion of the amplifier and extending downwardly toward the table, a sound box on the lower end of the sound arm, there being an opening through the upper portion of the support communicating with the amplifier, there also being an opening through the support in the plane of the rotary table, the arrangement being such that the support can be swung on its hinges to move all of the parts out of the chamber.

1,422,713. TRACKING DEVICE FOR PLAYER PIANOS. JOSEPH P. HULDER, New York, N. Y., assignor to The Unit Player Action Co., a Corporation of New York. Filed Oct. 19, 1920. Serial No. 417,893. 6 Claims. (Cl. 84—140.)



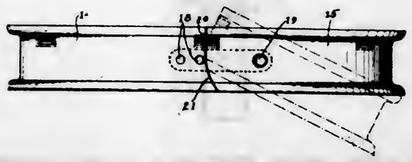
1. In combination a traveling note-sheet, a member having a pair of openings and a connecting groove disposed in the path of travel of an edge of the sheet, one of the openings being partly, and the other opening and the groove being entirely, covered by said edge, and a pneumatic tracking device connected with said openings and governed by lateral displacements of the sheet for automatically correcting such displacements.

1,422,714. JOINTED ARTIFICIAL HAND. PAUL ALFRED INGOLD, Paris, France. Filed Aug. 1, 1921. Serial No. 489,023. 9 Claims. (Cl. 3—12.)



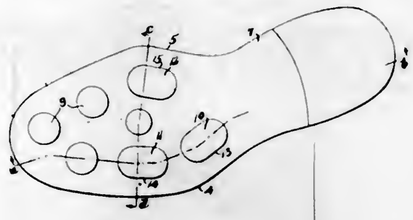
1. An artificial hand comprising a body portion, finger members having their first phalanges integral with said body portion and second phalanges pivoted to said first phalanges.

1,422,715. RIM. OTTO H. JONSKI, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 12, 1919. Serial No. 344,443. 4 Claims. (Cl. 301—32.)



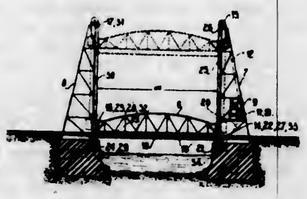
1. In a device of the class described, the combination of a vehicle wheel rim divided transversely at two points to form substantially equal arcuate sections, the lines of division each comprising a straight portion and a curved portion, and hinge plates connecting the adjacent ends of the rim sections whereby said sections are relatively movable about an axis eccentric to said curved portions, one of said hinge plates having a lost motion connection with one of said sections to permit circumferential motion of said end when the sections are moved about their axis.

1,422,716. SHOE SOLE. PAUL JONES, Hanson, Mass., assignor to Commonwealth Shoe & Leather Company, Whitman, Mass., a Corporation of Massachusetts. Filed Oct. 22, 1921. Serial No. 509,533. 1 Claim. (Cl. 36—30.)



A shoe sole having resilient projections outstanding therefrom and constituting elements of the wear surface thereof, one of such projections being arranged near the inner edge of the sole and another near its outer edge, the latter of said projections being of greater height than the other.

1,422,717. LIFT BRIDGE. PIETER JOOSTING, Utrecht, Netherlands. Filed Mar. 7, 1921. Serial No. 450,165. 5 Claims. (Cl. 14—42.)

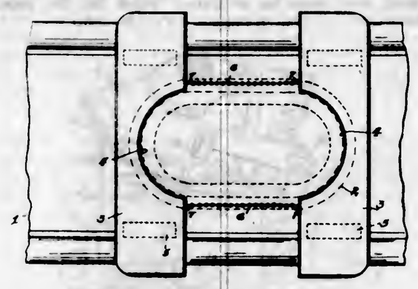


1. In a lift bridge, the combination with stationary towers, of a span adapted for vertical travel between said towers, a fixed lifting and lowering machinery, flexible pulling means extending from said machinery over guiding means at the upper part of the tower adjacent to said machinery and thence over guides in the span to a fixed point in the upper part of the other tower, and means adapted to prevent the span from going out of square with the towers.

1,422,718. SUSTAINING MEANS FOR INFANTS' BATHTUBS. CLARENCE C. KEEHN, Canandaigua, N. Y., assignor to The Lisk Manufacturing Company, Ltd., Canandaigua, N. Y., a Corporation of New York. Filed Nov. 4, 1921. Serial No. 512,936. 5 Claims. (Cl. 4—2.)

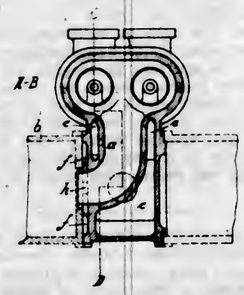
1. Sustaining means for an infants' bath tub comprising two members having opposed receptacle receiving recesses,

and flexible connections between said members of such lengths as to permit the members to be held in spaced



relation to each other and so constructed as to permit the movement of the members toward each other in their common plane.

1,422,719. AIR-COOLED INTERNAL-COMBUSTION ENGINE. RUDOLF KRONENBERG, Ohligs, Germany. Filed July 27, 1920. Serial No. 399,417. 1 Claim. (Cl. 123—177.)



In an internal combustion engine, a valve casing, a cylinder head with a passage connecting the same and an annular cavity surrounding said passage and communicating with the atmosphere adapted for the circulation of atmospheric air therethrough and around the said passage by natural draught, an annular cavity between the said casing and head, and openings communicating with said last-named cavity.

1,422,720. METHOD OF MANUFACTURING INSULATING AND RESISTANT ARTICLES AND PRODUCTS THEREOF. FRANK T. LANEY, Akron, Ohio. Filed Mar. 11, 1921. Serial No. 451,613. 12 Claims. (Cl. 106—23.)

1. A method of manufacturing material of the character described, comprising the steps of treating vegetable fibres with a dilute alkali solution, in the presence of a vulcanisable oil and rubber at a temperature which does not destroy the structure of the fibre, adding a vulcanizing agent and heating until the oil is precipitated within the structure of the fibre and the material is vulcanized.
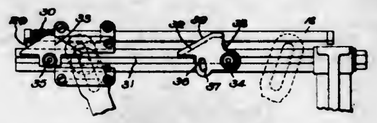
1,422,721. ELECTRICALLY-HEATED UTENSIL. JOSEPH F. LAMB, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Aug. 18, 1919. Serial No. 318,188. 15 Claims. (Cl. 219—28.)

1. In a utensil provided with a handle and handle stem fitting therein, a threaded member fitting within said handle stem and provided with projections entering notches in said handle stem in order to prevent relative rotation between the parts, and a second threaded member



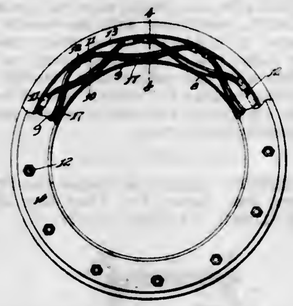
insertable in the outer end of said handle and engageable with said first threaded member.

1,422,722. WEFT SUPPLY AND PLACING MECHANISM. CHARLES LEA, Boston, Mass., assignor, by mesne assignments, to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a Corporation of New York. Original application filed Nov. 2, 1916, Serial No. 120,072. Divided and this application filed Oct. 23, 1919. Serial No. 332,784. 11 Claims. (Cl. 139—40.)



11. In weaving mechanism, a weft needle, a bracket supporting said needle near one end thereof, a guide along which said bracket is longitudinally reciprocable, means for reciprocating said bracket, a pair of rigid laterally projecting jaws carried at the end of said needle opposite said bracket, one fixed, the other movable relatively thereto, and a pair of aligned cams upon said guide to actuate said movable jaw during the reciprocation of said needle-carrying bracket.

1,422,723. AUTOMOBILE TIRE. FREDERICK J. LEISSE, St. Louis, Mo. Filed July 6, 1920. Serial No. 394,054. 4 Claims. (Cl. 152—37.)

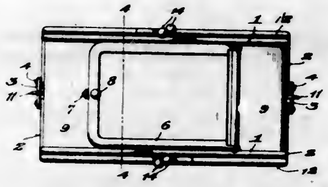


4. A tire of the class described comprising a plurality of leaf springs arranged in pairs of heavy and light tension and in staggered relation, a housing supporting the same, bearing boxes located in the housing in which the ends of the springs are seated, a tread member carried by the periphery of the housing, said tire being so constructed as to be attached to the rim of an ordinary automobile wheel, substantially as specified.

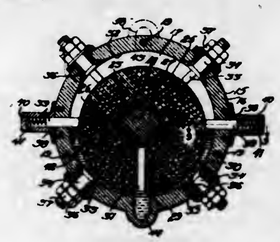
1,422,724. COMBINED PURSE AND VANITY-CASE FRAME. ISIDOR JOSEPH LEVY, New York, N. Y., assignor to Levy & Mersbach, New York, N. Y., a Firm composed of Isidor Joseph Levy and Louis Mersbach. Filed Oct. 10, 1921. Serial No. 506,588. 6 Claims. (Cl. 150—29.)

1. In a combined purse and vanity case frame, a central frame having a vanity case opening and having inverted

and opposed U-shaped sides secured thereto and depending therefrom, a hinged closure for the opening, and corresponding inverted U-shaped members hinged at their free ends to the free ends of the U-shaped sides and cooperating therewith to form mouths for purse bags.

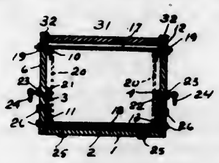


1,422,725. COMBINED SPARK TIMER AND OIL PUMP. JOHN MCCLELLAND, Philadelphia, Pa., assignor of one-half to Dallas B. Wiggins, Philadelphia, Pa. Filed Mar. 8, 1921. Serial No. 450,695. 4 Claims. (Cl. 200—26.)



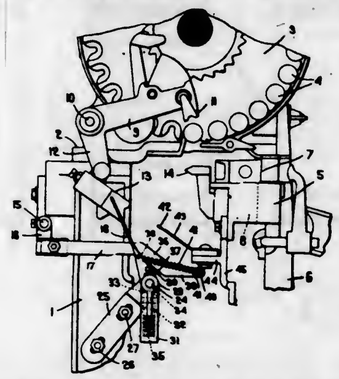
1. A device of the character described including a casing providing a chamber; a member eccentrically mounted in said chamber and movable with respect to the casing; resiliently pressed members movably mounted in said casing and held in sliding engagement with the eccentric surface of said member to divide the space in the chamber to form a fluid compartment, said casing having an opening communicating with said compartment; electric contact members on said casing; and electric contact means on said member adapted to successively engage said members; substantially as described.

1,422,726. COFFIN. GEORGE M. MAHAR and PHILIP M. M. PHELPS, Fair Haven, Vt. Filed May 20, 1921. Serial No. 471,041. 3 Claims. (Cl. 27—7.)



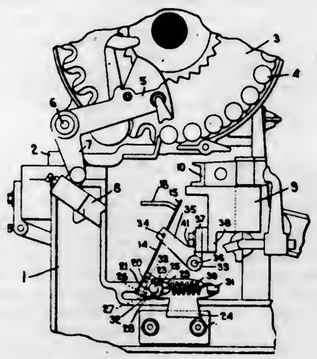
1. In a coffin the combination of a bottom slab of stone, end slabs of stone having their lower edges resting on the ends of the bottom slab, side slabs of stone enclosing between them the bottom slab and the end slabs, upper and lower cross rods holding the side slabs against the end and bottom slabs, supporting strips intermediate the ends having their centre portions secured to the upper face of the bottom slab and having their end portions upwardly extending and secured to the inner faces of the side slabs, and longitudinal rods extending along the side slabs and provided at their ends with means for holding the end slabs against movement either inward or outward.

1,422,727. FILLING-END CLEARER FOR FILLING-REPLENISHING LOOMS. ALFRED E. STAFFORD, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 24, 1920. Serial No. 360,803. 8 Claims. (Cl. 139—85.)



1. In an automatic filling replenishing loom comprising a lay having an opening therethrough to permit the discharge of an abandoned filling carrier, and transferring mechanism, a filling end clearer pivotally mounted to oscillate below the path of reciprocation of the lay, means for positioning the filling end clearer adjacent the rear wall of the aperture in the lay as the lay approaches transfer position, means for causing the clearer to sweep transversely across the path of the abandoned filling carrier after transfer, before the shuttle is picked, after having been supplied with a fresh filling carrier, and means carried by the lay for removing the filling end from the filling end clearer upon backward movement of the lay.

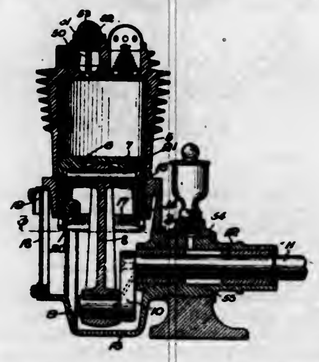
1,422,728. FILLING-END-WITHDRAWING MEANS FOR WEFT-REPLENISHING LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 14, 1920. Serial No. 416,810. 5 Claims. (Cl. 139—85.)



1. In a filling replenishing loom comprising a frame, a lay provided at its end with a shuttle box having an aperture therethrough to permit the discharge of an abandoned filling carrier, hooked teeth projecting downwardly from the forward wall of said aperture and pointing toward the adjacent end of the lay; a toothed filling end catcher pivotally mounted upon said frame, positioned below and closely adjacent to the path of the bottom of said lay end and behind the path of the discharging

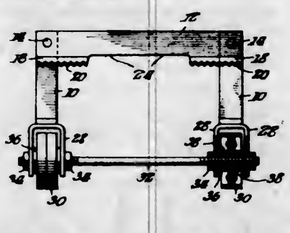
filling carrier during replenishment, acting as the lay recedes to engage and bend the filling end abruptly around the toothed under edge of the lay end, and a filling end clearer yieldably mounted on said lay below said filling end catcher adapted to cross the path of the discharging filling carrier upon the beat-up of the lay, and upon rearward movement thereof to engage said filling end and produce a bight thereof around said filling end catcher at the time the shuttle is picked next succeeding transfer.

1,422,729. PISTON. HAROLD D. WATERHOUSE, Quincy, Mass., assignor to Bay State Pump Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 3, 1919. Serial No. 274,637. 3 Claims. (Cl. 74—108.)



1. In a piston for air compressors, the combination of two separate and distinct packing means, one of said packing means comprising a continuous metallic piston ring having inwardly tapering edges, mechanical expansion means acting positively to expand said continuous piston ring, the other of said packing means comprising a resiliently expansible split piston ring.

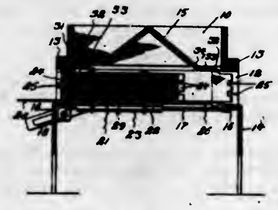
1,422,730. PORTABLE TRUCK. MONTRAVILLE M. WOOD, Berwyn, Ill. Filed Apr. 25, 1921. Serial No. 464,362. 3 Claims. (Cl. 280—61.)



1. In a device of the class described two small angle members, a truck wheel supporting each, a bar connecting the angle members having an angularly turned serrated edge for application to a trunk edge, for the purposes set forth.

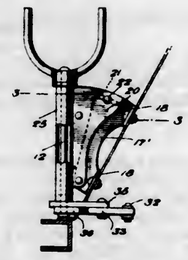
1,422,731. POTATO CUTTER. HARVEY L. BEUCLER, Lake Park, Minn. Filed Oct. 4, 1921. Serial No. 505,275. 2 Claims. (Cl. 146—7.)

1. A device of the character described comprising a frame open at its top, bottom and both ends, supports secured to the ends of the frame, a hopper mounted upon the top of and discharging into said frame, a plurality of intersecting blades within the open ends of the frame and constituting dies, a carriage mounted for reciprocatory movement within the frame and including a block having its ends grooved for accommodation of the die blades, means for reciprocating said carriage, tubular members



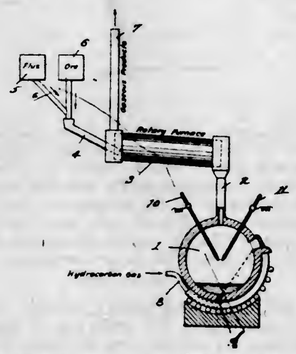
secured upon the underside of the carriage, and guide rods secured beneath the frame and passing through said tubular members.

1,422,732. MOVABLE HEADLIGHT. H. DIXON BOUGHTER, Decatur, Ill. Filed Feb. 19, 1921. Serial No. 446,357. 3 Claims. (Cl. 240—62.)



1. Dirigible headlights for motor vehicles comprising lamp supporting standards, a connection between the lamps whereby the latter are simultaneously rotated, a bracket for each lamp, said bracket including a wing shaped member fixed to the adjacent fender of the vehicle, a second wing-like member relatively adjustable to the first mentioned member, means for holding the adjustable member fixed in a given position, the latter mentioned member being formed to provide a bearing arranged along the outer side thereof and in which the adjacent lamp standard is mounted for partial rotation, and means whereby said standards are turned incident to the steering of the vehicle for the purpose specified.

1,422,733. METHOD OF PRODUCING IRON AND STEEL. WALTER E. F. BRADLEY, New York, N. Y. Filed July 17, 1918. Serial No. 245,368. 11 Claims. (Cl. 204—63.)



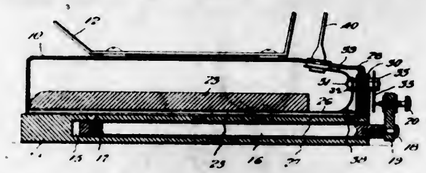
5. The method of reducing ores of iron which comprises passing finely divided ore and flux continuously

through a rotary drum furnace and into an electric furnace, fusing the mass in the electric furnace and simultaneously passing a reducing gas in opposite direction into the electric furnace, through the fused charge of ore and flux therein and through the rotary drum furnace.

1,422,734. METALLURGICAL PROCESS. WALTER E. F. BRADLEY, Nyack, N. Y. Filed Sept. 4, 1918, Serial No. 252,587. Renewed Dec. 5, 1921. Serial No. 520,157. 8 Claims. (Cl. 75—4.)

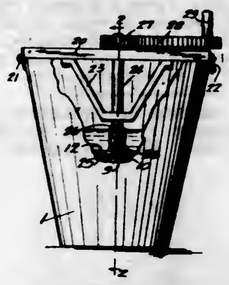
1. A metallurgical process, comprising reducing ores by a hydrocarbon gas, and introducing into the reduced molten charge an addition of metal oxide with free carbon.

1,422,735. AUTOMATIC MEANS FOR CONTROLLING ELECTRICALLY-HEATED DEVICES. ALBERT FRANKLIN BROWN, Los Angeles, and LAWRENCE BURROUGHS BURCK, Pasadena, Calif. Filed Jan. 16, 1918. Serial No. 212,091. 1 Claim. (Cl. 219—25.)



The combination with a body to be maintained at a substantially uniform temperature, of an expansion bar mounted therein, an adjustable contact element carried by the bar, and a resilient contact element with reference to which the adjustable contact element is movable upon the expansion and contraction of the bar, the contacts maintaining the circuit during the expansion and contraction of the bar to a given degree and breaking the circuit upon further expansion.

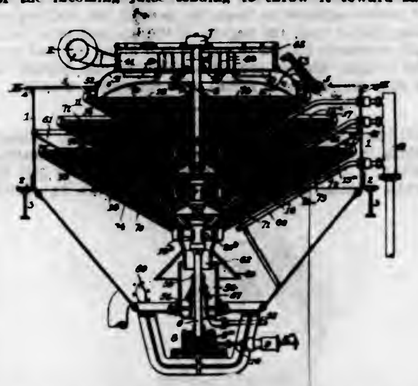
1,422,736. ORE SEPARATOR. EARL R. BROWN, Redlands, Calif. Filed Mar. 24, 1921. Serial No. 455,004. 3 Claims. (Cl. 83—87.)



1. An ore separator comprising a fluid receptacle, an ore receptacle mounted therein and having an opening in its base to said fluid receptacle, means for creating a whirling motion of the fluid within said ore receptacle, means for supplying ore to the periphery of the base of said ore receptacle, and a spiral riffle upon the base of said ore receptacle forming a spiral passageway for said ore leading to said opening in the ore receptacle.

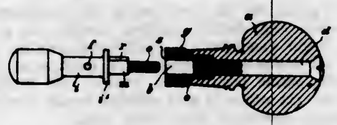
1,422,737. STRAINER FOR SUGAR JUICES. MARTIN E. CARTER, Philadelphia, Pa. Filed Feb. 7, 1919. Serial No. 275,522. 5 Claims. (Cl. 210—63.)

1. In a strainer for sugar juices and the like, the combination of a casing; a vertical shaft therein; a funnel-shaped straining screen carried by said shaft, means for introducing juice to said screen, a depending flange extending within the upper zone of said screen, a dedector for the incoming juice tending to throw it toward said



flange and into the upper portion of the screen, means for rotating the screen, and separate outlets leading from the bottom of the casing for the discharge of juice and the material strained therefrom.

1,422,738. TENSIONING PEG FOR STRINGED INSTRUMENTS. KARL CARPARI, Frankfort-on-the-Main-Ginnheim, Germany. Filed Aug. 29, 1921. Serial No. 496,750. 2 Claims. (Cl. 84—304.)



1. An improved tensioning peg for stringed instruments comprising in combination an externally screw threaded stem, and a peg, a head on said peg, an internally threaded pin in said peg head connecting said peg head with said externally threaded stem, a cylindrical projection on said peg head, having a groove in the inner boring, a feather on said stem engaging with said groove, a peg box and a bearing member in said peg box supported by said cylindrical projection.

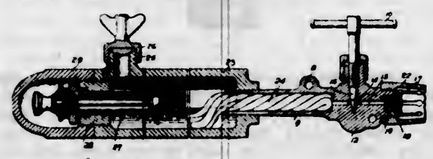
1,422,739. BRUSH. JORGEN E. CHLESO, San Francisco, Calif. Filed Nov. 4, 1921. Serial No. 512,887. 2 Claims. (Cl. 15—173.)



1. In a device of the character described, a handle provided with an annular shoulder adjacent one end thereof, a ferrule fitted on the end of the handle and engaging said shoulder, the inner walls of said ferrule be-
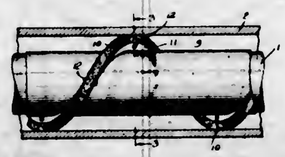
ing inclined outwardly from the handle, a casing within the ferrule, said casing comprising complementary semicircular sections, one of which is provided with angular extensions and the other with notches to receive said extensions, and an apertured cross strip connecting the sections, bristles set in the casing, and fastening means passing through the aperture of the cross strip and embedded in the handle for drawing the casing against the inclined wall of the ferrule.

1,422,740. GASOLINE SOLDERING IRON. WILLIAM COHEN, Bayonne, N. J. Filed Jan. 14, 1921. Serial No. 437,242. 1 Claim. (Cl. 158—27.)



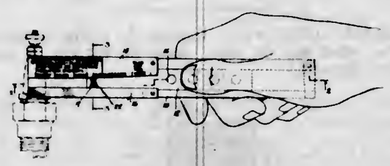
In a soldering iron a soldering head, a burner for heating said head, a frame carrying said head and mounted on said burner, a liquid fuel tank for supplying fuel to said burner, said tank having an open rear end, a sleeve having a continuous external thread and an internally threaded neck portion arranged in said open rear end, a hollow cap having a rounded end and threaded on said sleeve so as to cover the same and enclose part of the sleeve, the outer surface of the cap being flush with that of the container and said cap acting as a continuation or end piece to the container, and an air pump threaded into the neck of said sleeve with the discharge end extending into the container, and the manually operated end normally projecting into said cap and housed thereby.

1,422,741. GREASE RETAINER. SHADE B. COLLIER, Orlando, Fla. Filed July 20, 1921. Serial No. 486,200. 3 Claims. (Cl. 64—21.)



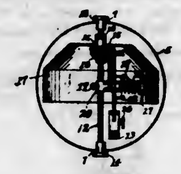
3. The combination with an axle and a housing therefor, of a sleeve fitting the axle, said sleeve being spirally slit, the metal adjacent the slits being turned outwardly to provide a flanged channel, and a strip of flexible material in the channel engageable with the housing.

1,422,742. TESTER. WILLIAM PEDRICK COOK, Laramie, Wyo. Filed Mar. 8, 1921. Serial No. 450,611. 4 Claims. (Cl. 175—183.)



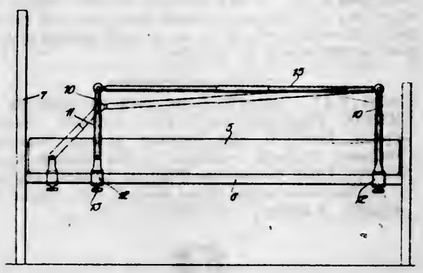
1. A tester including a pair of metallic members spaced one from the other, one of said members presenting an inclined longitudinal edge adapted to co-operate with the second of said members, and means for moving said second member with respect to said first named member.

1,422,743. GRADOMETER. DANIEL P. CORCORAN, Gridley, Calif. Filed Sept. 4, 1920. Serial No. 408,162. 2 Claims. (Cl. 33—215.)



1. A gradometer including a casing provided with an apertured covering plate and adapted to be secured to a vehicle, a vertical shaft mounted within said casing, means associated with said shaft and adapted to rotate thereon, said means including a gear wheel, a master wheel and a calibrated conical indicator, a balance wheel comprising a gear portion and a quadrant member, said gear portion meshing with the gear wheel mounted on said shaft and imparting rotary movement thereto, means adapted to support said balance wheel on said vertical shaft, said means including a clamping element and an integrally formed horisontal shaft, a tension element encircling said shaft, and an index adjacent the aperture of the covering plate of said casing and adapted to cooperate with the calibrated conical indicator to register the grade of the road bed along which said vehicle is traveling.

1,422,744. BED ATTACHMENT. FRANK CORTESE, New Brunswick, N. J. Filed Nov. 8, 1921. Serial No. 513,778. 1 Claim. (Cl. 5—41.)



A bed attachment including clamping members, socket members associated with said clamping members, certain of said socket members being pivotally attached to said clamping members, shafts adapted to have their ends extending into said socket members, and interconnected rods having their ends pivotally associated with said shafts.

1,422,745. ATTACHMENT FOR SPINNING MACHINES. ARTHUR J. COTE and ADRIAN COTE, Franklin, Mass. Filed Apr. 19, 1921. Serial No. 462,637. 2 Claims. (Cl. 117—32.)



1. An attachment of the class described comprising a pair of jaw members between which the roving is adapted

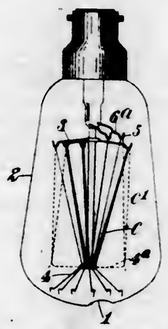
to pass, a movable member having a hook-shaped thread engaging part thereon for holding the said member in inoperative position as long as the thread is unbroken but acting under the action of gravity, when the thread breaks, to close the jaws upon the thread, and an anti-friction member arranged in the hook part for engaging the thread.

1,422,746. KEYWAY LOCATOR. KIBBEY W. COUSE, New York, N. Y. Filed Sept. 8, 1920. Serial No. 408,897. 7 Claims. (Cl. 33—185.)



1. A keyway locator, including a pair of calipers each comprising a pair of legs pivotally secured together adjacent one of their ends, means connecting and permitting a universal swinging of one of said calipers with respect to the second of the same.

1,422,747. RENEWAL OF THE FILAMENTS IN METAL FILAMENT ELECTRIC LAMPS. SYDNEY COXON, Liverpool, and WILLIAM ALBERT WILLIAMS, Wallasey, England, assignors to The Aladdin Renew Electric Lamp Corporation Limited, London, England, a British Corporation. Filed Sept. 2, 1920. Serial No. 407,755. 5 Claims. (Cl. 176—7.)



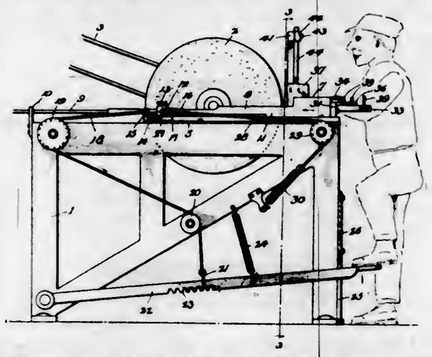
1. The process of renewing the metallic filament upon the permanent supports within an electric incandescent lamp without removing them from the bulb, comprising making an opening in the bulb, winding the new filament directly round the upper permanent scaffold wires and the roots of the lower permanent frail scaffold wires, setting the filament, then moving the depending loops of the filament from the roots to the outer ends of the lower scaffold wires.

1,422,748. HAND-BAG CATCH. BERNARD P. CULLEN and MATTHEW J. WOCHNA, Jersey City, N. J. Filed Apr. 29, 1920. Serial No. 377,664. 4 Claims. (Cl. 292—86.)



1. The combination with a hand bag, including a pair of coacting separable frame jaws, of a headed spring catch carried by one jaw, the other jaw having an irregular shaped opening therein, the walls of said opening being engageable with the catch to depress the same and permit its entrance therebetween, said catch adapted to interlock with the walls of said opening after its entrance therebetween, means concealing said catch when the jaws are closed, and one of said frames having an opening therein permitting the introduction of a tool for releasing said catch.

1,422,749. WORK HOLDER. ADOLPHUS DAMERON, Cleveland, Ohio. Filed Dec. 30, 1920. Serial No. 434,165. 6 Claims. (Cl. 51—240.)



1. The combination with a supporting frame, and a grinding member mounted thereon, of a carrier movable longitudinally of the frame in a plane parallel with the grinding member, a work-holder secured to said carrier, a foot lever, a yielding coupling fitted to the carrier, a flexible connection between the said coupling and the foot lever, means for holding the lever normally raised, and means acting upon the carrier in opposition to the foot lever.

1,422,750. LOCK NUT. HARMON L. DAVIS, Greenville, Pa. Filed Mar. 31, 1921. Serial No. 457,415. 1 Claim. (Cl. 151—25.)



A lock nut comprising a body having a bolt opening and provided in one wall of the opening with a recess

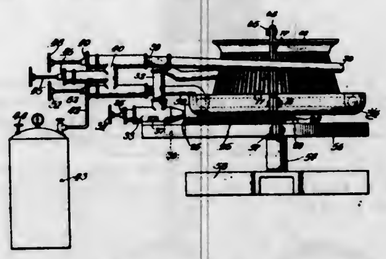
extending substantially tangential thereto, the recess opening through one face of the nut and terminating short of the opposite face thereof and being closed at the front and the back of the nut, one wall of the recess remote from the bolt opening being straight, the opposite wall of the recess for a portion of its length being located in a plane divergent to the plane of the first mentioned wall, a resilient locking element seated within the recess and comprising a shank resting against the first mentioned wall of the recess and provided near its end with a bend forming a locking tooth resiliently held against the second mentioned wall of the recess and with its engaging end projecting into the bolt opening whereby to engage and bite into the threads of the bolt upon which the nut is threaded, the last mentioned wall of the recess having a notch formed therein to receive a key for engagement with the tooth of the locking element for the purpose of springing the tooth to inactive position when the key is rotated, the front side of the nut being provided with an opening communicating with the recess and the said notch and adapted to receive the said key, and a plug closing the other end of the recess and engaging the adjacent end of the shank of the locking element.

1,422,751. MOTOR-DRIVEN SLED. FRED W. DENBROOK, Fond du Lac, Wis. Filed Apr. 18, 1921. Serial No. 462,103. 5 Claims. (Cl. 180—8.)



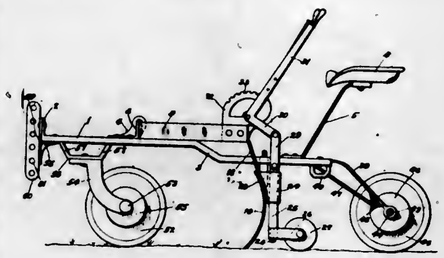
1. A device of the class described comprising a support, a plurality of rearwardly and downwardly inclined surface engaging steppers pivotally mounted on said support, a supporting member on which said steppers rest and by which they are guided, and means for elevating said member to move the same in a circular manner to cause the steppers to assume a forwardly and downwardly inclined position, whereby to drive the support in a reverse direction.

1,422,752. HYDROCARBON BURNER. FOREST V. DETWILER, Pottstown, Pa. Filed Nov. 24, 1919. Serial No. 340,105. 12 Claims. (Cl. 158—71.)



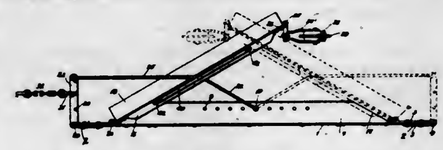
12. A hydrocarbon burner embodying a burner chamber, said chamber embodying top and bottom portions separate from each other, one of said portions encompassing the other portion and being spaced therefrom, each of said portions being of sectional construction, abutting flanges on the proximate edges of the respective sections, fastening devices passing through the flanges, there being burner openings through the outermost portion, a vaporizing pipe encompassing the chamber, means whereby vapor from the pipe may be delivered into the said chamber, a sectional flame deflector removably seated upon and encompassing the top of the said chamber and projecting beyond the wall thereof, and means for clamping the deflector to the top of the chamber.

1,422,753. GRADING MACHINE. HENRY L. DEVER, Owensboro, Ky. Filed Dec. 9, 1920. Serial No. 429,405. 4 Claims. (Cl. 37—49.)



1. In a grading machine, the combination of a main frame bar, a blade pivotally connected with the bar, an arcuate locking frame having a flat web slidably resting on the bar in advance of the blade and an upstanding web rising from the convex edge of the flat web, hangers depending from the ends of said frame and secured to the blade, a latch mounted on the bar to engage the flat web of said frame and secure it in a set position, and a guiding socket secured upon the bar in advance of said frame and having an overhanging portion engaging over the upper edge of the upstanding web of said frame.

1,422,754. GRADER. HENRY L. DEVER, Owensboro, Ky. Filed Jan. 7, 1921. Serial No. 435,704. 3 Claims. (Cl. 37—5.)



2. In a grader, the combination of a landside, a blade, means for detachably connecting either end of the blade to the corresponding end of the landside, a draft bar pivotally fitted to the blade at the center thereof, and a brace bar pivoted at its rear end to the landside and having its front end pivotally engaged upon the draft bar.

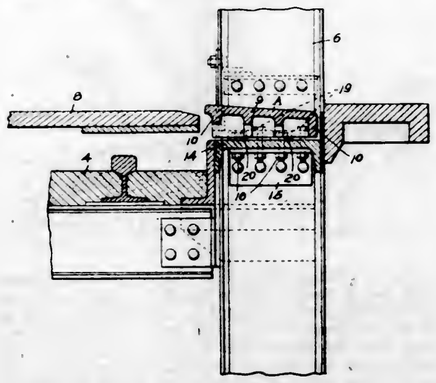
1,422,755. VEHICLE SPRING. HERMANN B. DIPWORTH, Saginaw, Mich. Filed Mar. 21, 1921. Serial No. 454,021. 2 Claims. (Cl. 267—47.)



1. A vehicle spring comprising the combination with a vehicle axle and frame, of a plurality of spaced superposed leaves of progressively increasing length, the lower or shorter leaves being secured upon the axle and the uppermost leaf being provided at its ends with knuckles adapted for connection with hangers associated with the vehicle frame, hangers pivotally connected with the ends of all the leaves and extending upwardly, bolts extending

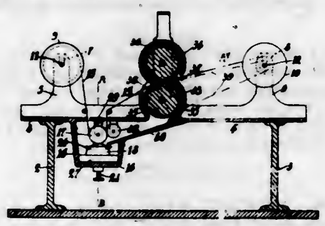
through the upper portions of the respective hangers and engaging against the upper sides of the leaves next above, and a roller journaled intermediate the ends of each hanger and engaging against the underside of the leaves next above.

1,422,756. APRON FOR COKE-OVEN DOORS. LEMAN E. DOTY, Elyria, Ohio, and FRANKLIN H. SMITH, Brentwood Borough, Pa. Filed Feb. 7, 1921. Serial No. 442,988. 3 Claims. (Cl. 214—23.)



1. The combination with a coke oven having an exit doorway, and buckstays along the sides of said doorway, of a coke guide adapted to travel along the front of said oven and to clear said buckstays, a supporting member secured to said buckstays, and an apron plate mounted on said supporting member between said buckstays adapted to bridge the space between said oven and said coke guide, and bolts passing through elongated slots in said apron plate and said supporting member for securing said apron plate in position.

1,422,757. APPARATUS FOR INKING RIBBONS FOR TYPEWRITERS OF ANY MAKE. OTTO FRANKENBACH, Vienna, Austria. Filed June 23, 1920. Serial No. 391,195. 7 Claims. (Cl. 91—18.)



1. An inking apparatus of the kind described, comprising in combination a suitable base plate, a plate supported horizontally on said base, a depending trough on said plate, a rotatable drum journaled in said trough, a hollow yielding cushion below said drum and cooperating with the same, discharge openings in the top of said cushion, said cushion being filled with ink, means for regulating the discharge of ink from said cushion, and means for continuously moving a ribbon to be inked between said drum and cushion, substantially as set forth.

1,422,758. ATTACHMENT FOR NECKSCARFS. MORRIS GOLDBERG, Brooklyn, N. Y. Filed Nov. 6, 1918. Serial No. 261,381. 2 Claims. (Cl. 2—83.)

1. In combination, a tie folded upon itself and knotted to provide a knot and a loop extending from one side of the knot, a tape having one end secured to the loop and means



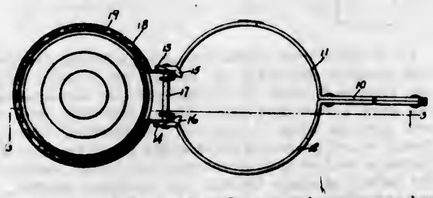
including a removable member secured to the knot for detachable connection with the opposite end of the tape.

1,422,759. PUMP. HENRY M. GREEN, Los Angeles, Calif. Filed Aug. 31, 1921. Serial No. 497,340. 12 Claims. (Cl. 103—225.)



1. A pump including a working barrel and having a reciprocating plunger, and packing within and adapted to be forced from one end of said plunger against said barrel by the weight of the pumped fluid above said plunger.

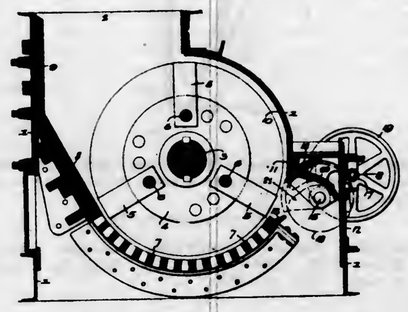
1,422,760. WRENCH. BENJAMIN W. HANLE, Roselle Park, N. J. Filed Dec. 22, 1921. Serial No. 524,218. 6 Claims. (Cl. 81—3.1.)



1. As a new article of manufacture, a jar-cap wrench of the class described, comprising a handle having a pair of

curved jaws, the ends of which are spaced apart, a rod joining the ends of said jaws, a one-piece cap band having its ends slidably mounted on the rod, and cam members attached to the ends of the handle jaws and co-operating with the ends of the cap band to move them inward along the rod to decrease the diameter of the cap band to grip the jar cap.

1,422,761. HAMMER CRUSHER. WILLIAM H. HARTMAN, Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y., a Corporation of New York. Filed Nov. 10, 1920. Serial No. 423,164. 7 Claims. (Cl. 83—11.)



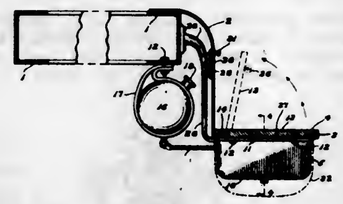
1. The combination in a hammer crusher of a cage having inlet and outlet openings; a series of rotary hammers in the cage; and a rotatably adjustable valve mounted adjacent the outlet opening, said valve including a circumferential face adjustable into position to form a portion of the cage wall when the outlet opening is closed, and also including a portion extending from said face inwardly toward the axis of rotation of the valve to constitute a deflecting plate when the outlet opening is open.

1,422,762. CASING SWAGE. FLOYD H. HATFIELD, Rawlins, Wyo. Filed Jan. 12, 1921. Serial No. 436,763. 8 Claims. (Cl. 153—80.5.)



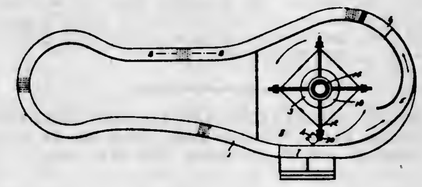
2. A swage comprising a sleeve having a lower portion apertured at its side and tapered to a point, and a mandrel movable longitudinally in the sleeve and through the apertured tapered portion thereof.

1,422,763. WASHBASIN FOR AUTOMOBILES. WILLIAM H. HOLLIS, Germantown, Pa., assignor of one-half to Dr. Vivian Pinnock-Bailey, Philadelphia, Pa. Filed Nov. 8, 1921. Serial No. 513,730. 5 Claims. (Cl. 280—164.)



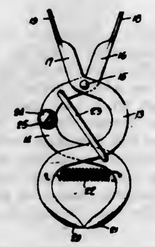
1. The combination with the running board and chassis of an automobile of a lavatory basin, a cover for said lavatory basin adapted to seat in flush with the surface of said running board, means for supplying water to said lavatory basin, and means associated with the running board apron whereby said reservoir may be replenished.

1,422,764. AMUSEMENT RIDE. JACOB IASCH, New York, N. Y. Filed Dec. 8, 1921. Serial No. 521,029. 8 Claims. (Cl. 104—53.)



1. An amusement ride of the character described comprising a track, a rotatable power member, a carriage, a coupler for connecting the carriage with the rotatable power member whereby the power member will move the carriage in a circle, guiding means arranged adjacent the power member for guiding the carriage to the track when released from the power member and manually actuated means for releasing said coupler.

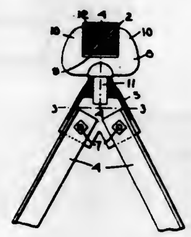
1,422,765. BATTERY GRIP. CARL EBEN JOHNSON, Chanute, Kans. Filed June 1, 1921. Serial No. 474,240. 1 Claim. (Cl. 173—273.)



A battery grip, comprising S-shaped jaw members pivoted near their upper ends, handles integral with the jaw members and extending above the pivot point, flattened sharpened ends formed on the lower extremities of the jaw members in alinement with one another so that they abut, a spring connected to the jaw members and extend-

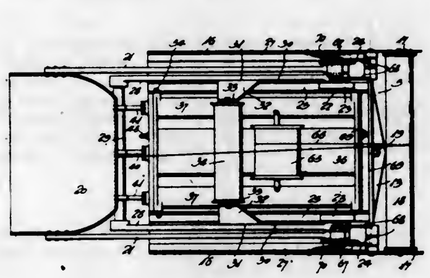
ing between them to normally retain the ends of the jaw members in engagement with one another, screw attaching means mounted on one of the jaw members, and a guide for controlling the movements of the jaw members associated with them.

1,422,766. SEESAW. THOMAS E. JORDAN, Malden, Mass., assignor to Oliver Whyte Co. Inc., Boston, Mass., a Corporation of Massachusetts. Filed June 12, 1920. Serial No. 388,619. 4 Claims. (Cl. 46—22.)



3. In a see-saw, the combination with a stand, of a fulcrum member having a shank or stem swiveled in the stand and provided with a fulcrum edge, and two arms extending upwardly at each end thereof, and a channel-iron beam member received between said arms and fulcrumed on said fulcrum edge.

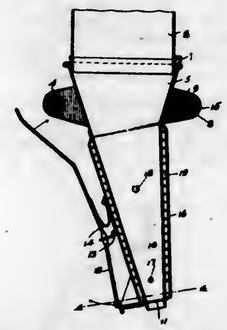
1,422,767. EXCAVATING AND LOADING MACHINE. ERNEST KEAST, Negaunee, Mich. Filed Jan. 24, 1921. Serial No. 439,569. 9 Claims. (Cl. 214—134.)



1. In a structure of the character described, a truck, a carriage mounted upon said truck for transverse swinging movement, an arm extension at one end of said carriage intermediate its width, actuating means movable longitudinally of said truck and positioned adjacent the sides thereof, guides carried by said truck, cables connected with said arm and engaging certain of said guides and slidably engaging said actuating means and secured to said truck, and a cable engaging other of said guides and having its end portions connected with said actuating means at the opposite ends thereof from said first mentioned cables.

1,422,768. DISPENSING DEVICE. EARL KENT and GLENN KENT, Tacoma, Wash. Filed May 3, 1921. Serial No. 466,472. 2 Claims. (Cl. 221—11.)

2. A dispensing device, including a nozzle, a funnel merging into the upper end of said nozzle, a heating jacket enclosing said nozzle, a gate valve, a lever pivotally secured to said nozzle and having one of its ends attached to said valve, handles secured at diametrically opposite



points to the outer face of said funnel, said lever having one of its ends extending to a point in proximity to one of said handles.

1,422,769. BANJO STRUCTURE. CALVERT PARKER, Keene, N. H. Filed Oct. 30, 1920. Serial No. 420,669. 5 Claims. (Cl. 84—271.)



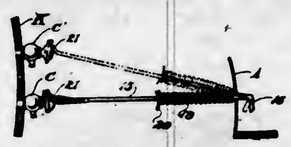
1. A banjo comprising a rim, a neck, a dowel post extending from the neck across the rim, a skin head disposed across one face of the rim, a sounding board built into the rim and completely closing the space beneath the skin head, said sounding board lying between the dowel post and the skin head and an adjustable tone regulating device located between the dowel post and the sounding board to control the vioration of the sounding board.

1,422,770. CORNER BRACE. WALTER ROBERT KROPF, San Francisco, Calif., assignor of one-half to Adolph Gustave Siebert, San Francisco, Calif. Filed May 31, 1921. Serial No. 473,986. 3 Claims. (Cl. 45—48.)



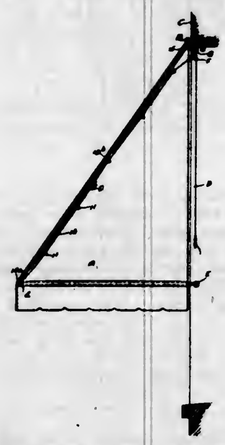
2. A corner brace for furniture produced from a metal sheet cut longitudinally and bent both longitudinally and transversely to form a tongue, and transverse bracing strips, two of the strips extending in opposite directions from one another at right angles to the tongue and with their flat surfaces in the same vertical plane, a third strip extending lengthwise of the two first-named strips and with its flat surface in a plane intersecting the plane of the said two first-named strips, said tongue member having prongs on its forward edge and spurs struck up from its sides and adapted to be embedded in a corner post of a furniture structure, said two first-named strips having their respective ends bent outwardly and adapted to be attached to frame members of the furniture structure.

1,422,771. GAUGE-COCK-OPERATING TOOL. SHERMAN T. KUNKEL, Los Angeles, Calif. Filed Dec. 3, 1921. Serial No. 519,670. 1 Claim. (Cl. 137—139.)



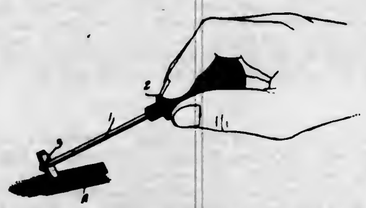
In combination, a magneto casing having gauge cocks arranged one above the other, a running board apron having an opening in horizontal alinement with one of the gauge cocks, and an operating tool movably sustained in the opening to be alternately applied to the cocks for actuating the latter, and means for urging the tool inwardly toward said cocks.

1,422,772. ATTACHMENT FOR AWNINGS. JOHN AMBROSE LENHOFF, Hockessin, Del. Filed Aug. 17, 1921. Serial No. 493,165. 6 Claims. (Cl. 156—15.)



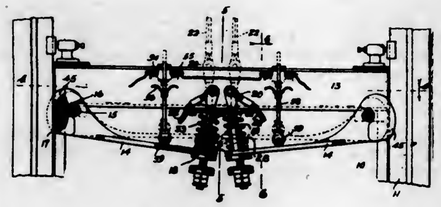
6. An attachment for awnings consisting of a flexible strip separate from the awning material and having means to secure it to the awning at separate points to rise and fall with the raising and lowering of the awning, and be free from the awning material between said securing points, said strip having means to secure it independently of the awning to the structure on which the awning is supported, said strip furthermore having eyelets offset therefrom through which a hoisting and lowering cord of the awning may pass.

1,422,773. VIGNETTING TOOL. WILLIAM J. MCCARTHY, Rochelle Park, N. J. Filed Dec. 13, 1921. Serial No. 522,171. 3 Claims. (Cl. 81—3.)



1. A vignette tool which comprises a rod having a hand portion at one end and a plate fastened to the other end, said plate disposed substantially transversely to the rod, serrations formed on the upper and lower edges of the plate, said serrations disposed transversely of the edges.

1,422,774. SAFETY DEVICE FOR ELEVATORS. HARRY MCGILLIVRAY, New York, N. Y. Filed Mar. 22, 1921. Serial No. 454,330. 5 Claims. (Cl. 187—87.)



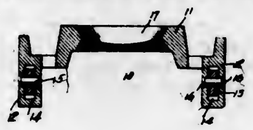
3. In a safety device for elevators, the combination with an elevator car and counterweights therefor movable between vertical guide rails in the elevator shaft, of means for frictionally locking the car and counterweights within the shaft in event of breaking of the cables, comprising levers pivoted respectively to the car and counterweight, each of said levers including cammed heads, a spring adapted to coact therewith for rocking the lever to a position to effect frictional engagement of the cammed head with the guide rail, a cable connection between each set of car and counterweight levers for holding the levers normally inactive to retain the cammed heads out of engagement with the guide rails, and means interposed between the lever and the car or counterweight structure constituting the abutments for limiting the compression of the springs whereby the carrying load is carried by said means.

1,422,775. TOY. LEON MARTOCCI-PISCULLI, New York, N. Y. Filed Mar. 9, 1921. Serial No. 450,990. 2 Claims. (Cl. 46—41.)



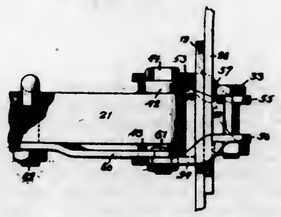
1. A toy, including a body, a dial fixedly secured to said body, a magnetic needle rotatably mounted with respect to said dial, a handle having a bifurcated end, said handle being attached to said body.

1,422,776. FLEXIBLE METALLIC STRUCTURE. HYACINTH MAXENCHS, New York, N. Y. Filed June 4, 1921. Serial No. 475,131. 3 Claims. (Cl. 59—80.)



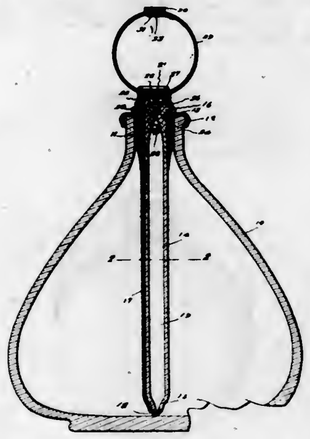
1. A flexible metallic structure comprising a plurality of individual members of substantially U-shape in cross section, said U-shaped members having longitudinal channels in the legs thereof, and means of connection extending through said channels.

1,422,777. BUMPER BRACKET. RICHARD T. NEWTON, New York, N. Y. Filed Mar. 17, 1922. Serial No. 544,462. 12 Claims. (Cl. 293—55.)



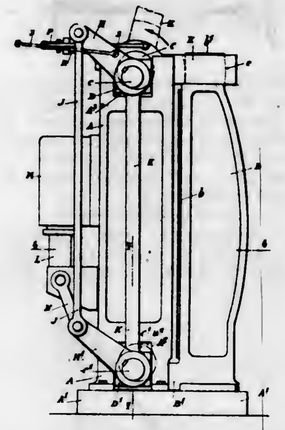
4. In bumper supporting means, a pair of members adapted to straddle a support, and apertured to freely receive a bumper attaching element, together with means for clamping said members on the support and for cramping them into engagement with said attaching element.

1,422,778. ATOMIZER. EDWARD CHARLES PETCHER, St. Louis, Mo. Filed Apr. 26, 1921. Serial No. 464,617. 5 Claims. (Cl. 128—177.)



1. An atomizer comprising a container, a combined chamber and atomizer tube normally positioned within the container and adapted to be removed therefrom for use, said tube having an air channel, a compressible bulb carried by the tube and communicating with said container through the air channel and a valve controlled air escape port for said tube.

1,422,779. PLATE-BENDING PRESS. JEAN ALBERT PERONY, St.-Ouen, France, assignor to Societe D'Outillage Mecanique et D'Usinage D'Artillerie, St.-Ouen, Seine, France, a Limited Joint-Stock Company of France. Filed July 21, 1920. Serial No. 398,019. 2 Claims. (Cl. 153—48.)



1. A plate bending press comprising a fixed abutment block provided with a recessed guide portion, an angularly formed press head having one side shaped to provide a bending tool and the other side formed to provide a flange engaging in the recessed guide portion of said abutment block, and means adapted to impart parallel reciprocating motion to the press head with respect to the abutment block, said means including a tie rod operatively connected with said press head and axles journaled in the abutment block and extending through said tie rod and the flange of said press head respectively.

1,422,780. ANTISLAP SPRING FOR PISTON RINGS. HENRY C. PHELPS and JOHN C. FOX, Glendale, Calif. Filed June 20, 1921. Serial No. 478,970. 2 Claims. (Cl. 74—109.)

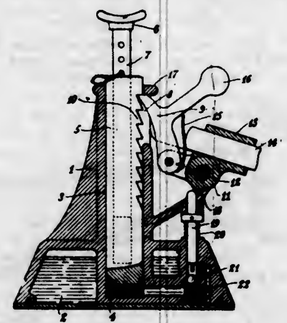


1. A piston ring expander comprising a strip of resilient material alternately transversely slitted from its side edges and longitudinally slotted both ways from the transverse slits, and the ends of the lips thus formed being turned outwardly, the uncut ends of one set of lips being nearly in transverse alinement with the uncut ends of the adjacent lips at the opposite side.

1,422,781. LIFTING JACK. ARCHIBALD DOUGLAS POWELL, Braintree, England. Filed Oct. 26, 1920. Serial No. 419,597. 10 Claims. (Cl. 254—95.)

1. A lifting jack, comprising a base formed for containing fluid and with a spindle housing, a spindle slidable in the housing formed with ratchet teeth and provided with a crutch at the upper end, the base being formed with

a passage from the fluid container to the spindle housing, a valve mounted in the passage and closing it to a



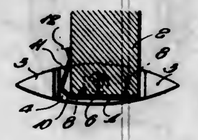
reverse flow, and means for elevating the spindle, said means also being adapted to operate the valve to permit a reverse flow of fluid.

1,422,782. GARMENT HANGER. CARRIE S. RATTAN, San Francisco, Calif. Filed Sept. 6, 1921. Serial No. 498,756. 1 Claim. (Cl. 211—13.)



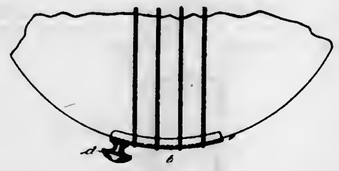
In a garment hanger, a supporting hook having a depending shank, a curved supporting bar mounted on said shank, laterally sliding hooks supported by said curved support, a second curved supporting bar suspended below said first mentioned curved supporting bar, said second curved supporting bar being of a length equal to the first mentioned supporting bar, slots formed in said second mentioned supporting bar, end pieces adapted to be slidably held on said second mentioned supporting bar, cross-pieces extending therethrough and adapted to pass through said slots, and means carried at the outer ends of said end pieces for retaining a garment thereon.

1,422,783. DOORCHECK. ALEX REEVES, Atlanta, Ga. Filed July 21, 1921. Serial No. 486,555. 8 Claims. (Cl. 292—216.)



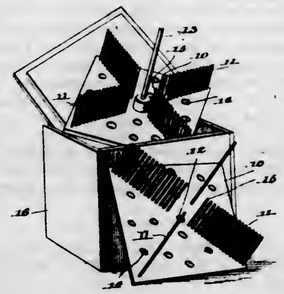
1. The combination with a rotatable door engaging and holding block having a door receiving recess providing opposed shoulders, of a spring member adapted to be connected with the lower corner portion of a door and extend from the side of the door to engage and turn the block into position to receive the door in the recess with the spring member engaging one shoulder and holding the door in engagement with the other shoulder to prevent rattling of the door against the holder.

1,422,784. RIBBON ATTACHMENT FOR STRINGED INSTRUMENTS. JOHANNES RICHTER, Niederlossnitz, near Dresden, Germany. Filed Mar. 10, 1920. Serial No. 364,868. 1 Claim. (Cl. 84—301.)



A device whereby a mandolin or a similar stringed instrument may be held in position by a cord consisting of a piece of metal slightly curved to conform to the lower end of the instrument of right angular cross section and comprising two arms of different widths, said piece having its edge at the angle rounded off, an eye at one end of the arm which bears upon the lower end of the instrument and a grooved knob secured in said eye so that it stands outside the range of the strings, both ends of the cord being held by the groove of said knob.

1,422,785. FILM HOLDER. JOSÉ E. RODRIGUEZ SERRA, Ponce, Porto Rico. Filed Jan. 16, 1920. Serial No. 351,748. 3 Claims. (Cl. 242—77.)



3. A holder comprising a plurality of film racks, each including an apertured base member and relatively spaced groups of spaced bars secured to and disposed vertically relatively thereto, a central post secured to the base members of one of the racks and adapted to extend through an aperture in the base member of the other rack so as to maintain the racks in a superposed and detachable relation.

1,422,786. SHEARS. GEORGE L. ROGERS, Philadelphia, Pa., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 11, 1921. Serial No. 468,510. 2 Claims. (Cl. 30—11.)

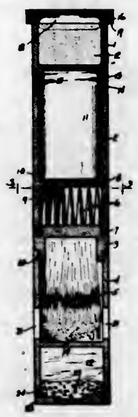
2. The combination of a bolt on which two parts are mounted, said bolt having a screw threaded portion adapted to the threads in one of said parts, said bolt having a longitudinal keyway therein; a washer mounted on the

bolt and having a key adapted to the keyway; means adjustably connecting the washer with one of the parts;



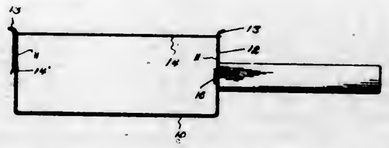
and means, on the bolt, for holding the washer to said part so that the part, which is not rigidly connected to the bolt, can turn freely on the bolt.

1,422,787. COMBINATION FACE BRUSH. ARTHUR E. ROPS, Brooklyn, N. Y. Filed Dec. 31, 1921. Serial No. 526,088. 2 Claims. (Cl. 132—81.)



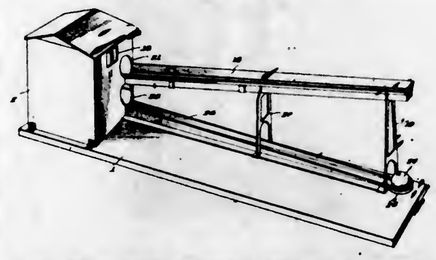
1. As a new article of manufacture, a combination face brush comprising a body having a brush at one side and massage devices at the other side, covers having screw-threaded engagement with the body and covering the brush and the massage device respectively, one of said covers having a receptacle at one end, a member having screw-threaded engagement with the other of said covers and adapted to support a shaving stick, said last-mentioned member also constituting a receptacle, removable closures for said receptacles, a powder puff secured to one of said covers, and a sponge to the other of said closures.

1,422,788. COMB CLEANER. CLARENCE RUNYAN, Aurora, Ind. Filed Aug. 30, 1921. Serial No. 496,856. 1 Claim. (Cl. 132—29.)



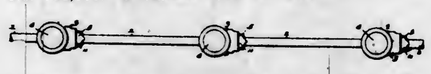
A comb cleaner comprising a substantially U-shaped frame, fingers projecting from the upper edge of the parallel end walls of said frame, one end wall having notches in its opposed side edges, a thread passed about said fingers in a manner to provide spaced parallel strands extended across the open end of the frame, with the terminals of said thread in said notches, the opposite end wall of the frame having parallel slots, a handle formed from a single piece of material, said handle being of substantially U-shaped formation in cross section, bendable tongues projecting from the opposed sides of the handle and adapted to be passed through said slots and subsequently bent against the adjacent end wall for holding said handle and frame fixed relatively.

1,422,789. TOY. ARTHUR C. SCHLOTH and HERMAN E. SCHLOTH, Lynn, Mass. Filed June 7, 1921. Serial No. 475,805. 2 Claims. (Cl. 46—57.)



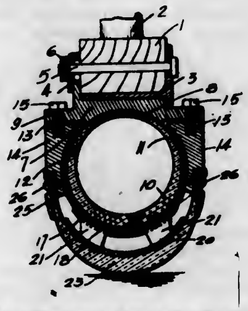
1. A toy or game, as herein described, comprising a housing having a sight opening, a shaft journaled in the housing, a numerically marked cylinder on the shaft, said shaft having radially disposed blades projecting therebelow in the path of contact with a spherical member, a downwardly inclined chute for directing the spherical member against the blades, and an oppositely directed trough receiving the spherical member after its contact with the blades for returning the same outward of the housing to a position below the elevated end of the chute.

1,422,790. CHAIN. JOSEPH FULLMER SCHOTT, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 17, 1919. Serial No. 331,301. 5 Claims. (Cl. 74—32.)



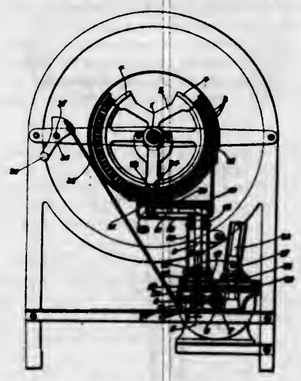
1. The combination in a single bar chain, of a series of bars, each bar having a large head at one end and a small head at the opposite end, the heads being integral with the bars; and block and socket couplings connecting the bars, each block having a recess for the small head of a bar and each socket having a recess for the large head of a bar, one of said parts having a space between the two recesses to allow for the longitudinal movement of the bar and to allow a head to turn in the recess when it is desired to detach a bar.

1,422,791. METAL-SHEATHED PNEUMATIC TIRE FOR VEHICLES. GEORGE F. SCHRIBER, Long Beach, Calif. Filed June 2, 1921. Serial No. 474,385. 1 Claim. (Cl. 152—10.)



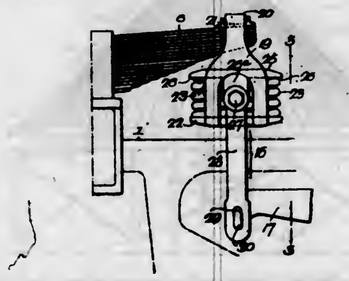
A pneumatic tire comprising a rim block adapted to be mounted upon a wheel and having an annular groove in its peripheral face to form a seat for an inner tube, the sides of the rim block extending outwardly from the annular groove, an inner tube covered with a liner and fitting in the annular groove, a metallic sheathing around the inner tube against the liner and extending outwardly and fitting the peripheral faces of the rim block at the sides of the groove, said metallic sheathing having peripheral openings at its tread portion, said sheathing being offset outwardly around the openings, circumferential sectional protecting plates fitting against the liner within the sheathing and covering the openings, circumferential sectional tread plates having lugs extending radially inwardly through the openings in the sheathing and impinging against the protecting plates, annular side plates fitting against the sides of the sheathing and bolted to the rim block, and a tire tread fitting against the tread plates and having side edges removably secured to the side plates.

1,422,792. GEARING. AUGUST E. SCHUETTE, Red Bud, Ill., assignor to Central Manufacturing Company, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 17, 1921. Serial No. 437,932. 2 Claims. (Cl. 74—50.)



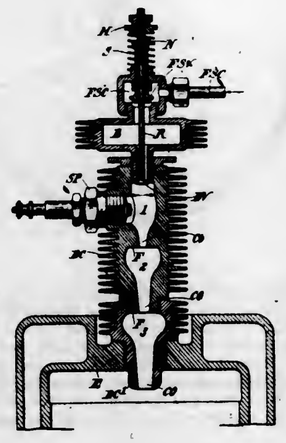
1. The combination with a gear wheel to be driven, a shaft, gearing for rotating said shaft, an arm pivoted on said shaft for swinging movements, and gearing on said arm driven from said shaft for driving said gear wheel, of a casing enclosing said gear for rotating said shaft, a removable cover for said casing, a casing enclosing said gear wheel and the gearing for driving the same from said shaft, a journal bearing for said shaft in connection with said second casing, and a sleeve connecting said removable cover and said journal bearing and enclosing said shaft.

1,422,793. EQUALIZING GEAR FOR LOCOMOTIVES. ELLWOOD M. SHANNON, Bala, Pa., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1922. Serial No. 542,057. 5 Claims. (Cl. 105—82.)



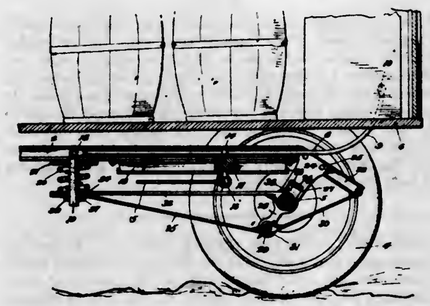
1. The combination in an equalizing gear for locomotives, of a series of springs and levers; links connecting the ends of the levers with the ends of the springs, each connecting link being made in two parts pivotally connected; and two coiled springs between the parts of each link.

1,422,794. IGNITION DEVICE FOR INTERNAL-COMBUSTION ENGINES. FREDERICK ARTHUR SMITH, Brasted, England. Filed Jan. 19, 1920. Serial No. 352,425. 10 Claims. (Cl. 123—143.)



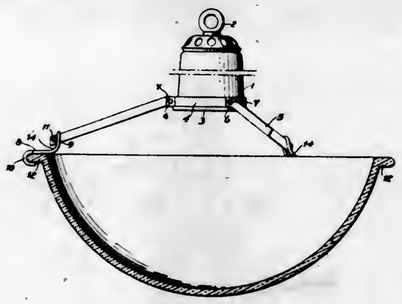
1. An automatic charge-accumulating and regulating device for internal combustion engines, comprising a box, a fuel supply conduit leading thereto, a delivery conduit leading therefrom to the engine cylinder, said delivery conduit comprising a plurality of communicating chambers having baffles therebetween, a delivery valve in said delivery conduit adapted to be opened and shut by variations in pressure in the engine cylinder, and controlling means in the fuel supply conduit preventing the entry of as much fluid to the box as is evacuated therefrom while the delivery valve is open, substantially as described.

1,422,795. AUXILIARY PROPELLING MEANS FOR MOTOR VEHICLES. FRANK B. SNYDER, South Altoona, Pa. Filed Oct. 14, 1920. Serial No. 416,945. 3 Claims. (Cl. 280—124.)



1. In a vehicle, a chassis frame, an axle, a body movable up and down with relation to the frame and axle, a lever supporting the body, means yieldably resisting movement of the lever, and a variable fulcrum for the lever.

1,422,796. LIGHTING-ACCESSORY SUSPENSION. WILLIAM H. SPENCER, New York, N. Y., assignor to I. P. Frink Inc., New York, N. Y., a Corporation of New York. Filed July 9, 1921. Serial No. 483,559. 1 Claim. (Cl. 240—115.)



A suspension device for a lighting accessory comprising a central support having arms hinged thereto at their inner ends at an inclined angle, suspension links at the outer end of the arms said links having their outer ends adapted to clamp the flanged edge of the accessory and being provided at their inner ends with upwardly curving loops sliding freely on the arms, and limiting pins fixed on said arms for preventing the links from sliding off the ends of the arms.

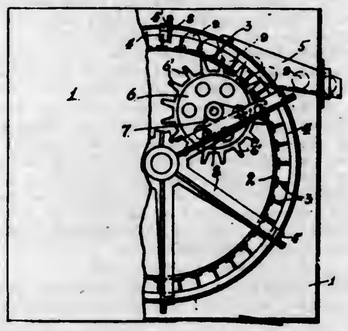
1,422,797. COLLAPSIBLE CRATE. ENOS ELI SUTHERLAND, Los Angeles, Calif. Filed Mar. 31, 1921. Serial No. 457,162. 2 Claims. (Cl. 217—48.)



1. A collapsible receptacle comprising four side walls having loop hinge connections at their ends and extending angularly across the corners of the receptacle, end closure members for the receptacle having two opposite corners cut away so that the solid corners may pass inside of two loop hinges and the cut away corners pass the other two loop hinges, and strips pivoted to the ends intermediate of their corners and adapted to swing into positions under the last two hinges and cover the cut away corners and hold the closures in place.

1,422,798. CAN-DISCHARGE DEVICE. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Apr. 3, 1920. Serial No. 370,937. 4 Claims. (Cl. 198—211.)

1. In apparatus of the character specified; a casing; a spiral canway therein; and a rotatable reel arranged axially of the spiral canway and having a peripheral series of spaced rails parallel with its axis; with a rotatable wheel mounted within the reel, above the axis thereof, having peripheral teeth adapted to project through and beyond the periphery of the reel whereby the wheel is rotated by the reel; said teeth projecting sufficiently to lift the cans and eject them from the canway as the cans pass over the wheel, substantially as described.

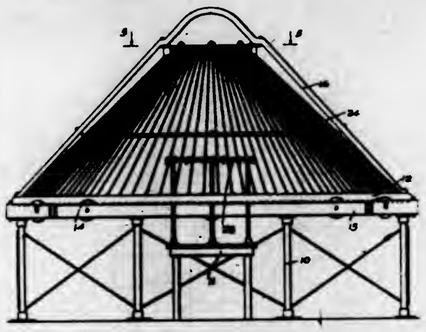


1,422,799. COMBINATION PLATE AND THREAD GUIDE. GEORGE C. L. TISCH, Elizabeth, N. J. Filed July 29, 1920. Serial No. 399,793. 3 Claims. (Cl. 66—12.)



2. In a thread guide, a plate provided with a transverse notched flange, a threaded opening above the flange and a lug above the opening, a threaded guide supporting member seated in the notched flange and having a U-shaped end engaging the lug, and a screw screwing into the threaded opening of the plate and engaging the supporting member.

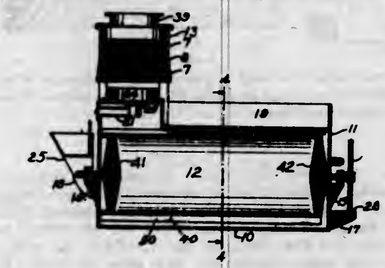
1,422,800. SORTING MACHINE. ALBERT VAN COTT and JOHN EVANS, Salt Lake City, Utah. Filed Jan. 26, 1921. Serial No. 440,095. 16 Claims. (Cl. 211—36.)



1. In an assorting device of the class described, the combination of a frame, a series of rods secured to the frame and extended upwardly and inwardly toward a common center, the said rods being so arranged and positioned that an operator adjacent to the upper ends thereof may place upon selected ones of said rods laundry articles or the like which will then slide downwardly and outwardly by gravity and all of the articles on one rod will then stand grouped at the lower outer end of said rod.

16. An assorting device of the class described comprising a frame, means for rotatably supporting it, a series of rods carried by the frame and extended upwardly and inwardly toward a common center, and an operator's platform mounted adjacent to the common center.

1,422,801. SULPHUR-BURNING APPARATUS. HAROLD DONALD WELLS, Glens Falls, N. Y. Filed Nov. 10, 1920. Serial No. 423,179. 6 Claims. (Cl. 23—1.)



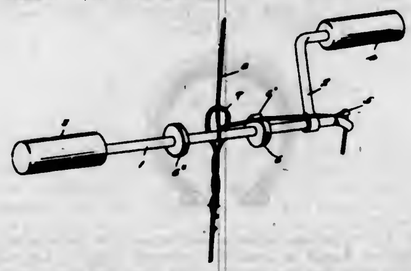
3. A sulphur burner of the type described which comprises a horizontal shell rotating within a casing, the shell at its forward end fitting tightly against the casing, and an air inlet damper positioned in the casing to admit air inside the shell.

1,422,802. THERMAL CUT-OUT DEVICE. GEORGE H. WHITTINGHAM, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Filed May 17, 1921. Serial No. 470,274. 2 Claims. (Cl. 200—122.)



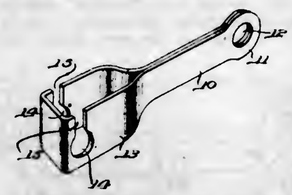
1. An electro-thermal cut-out comprising a thin helically corrugated metal tube, closed at its ends and containing an expansible fluid, and an electric heating coil wound on the body of the tube within the helical recess formed by the corrugation.

1,422,803. SPLICING TOOL. EARL J. WILLIAMS, Geary, Okla. Filed Aug. 21, 1920. Serial No. 405,033. 2 Claims. (Cl. 140—123.5.)



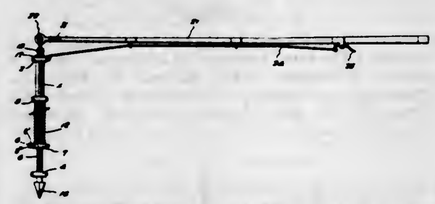
1. A device of the class described comprising a shaft having a crank at one end and a handle at the other end, a reel in the center and a claw formed on said shaft.

1,422,804. ROPE TIGHTENER. WALTER L. WITTE, Escondido, Calif. Filed Oct. 24, 1921. Serial No. 509,947. 1 Claim. (Cl. 24—129.)



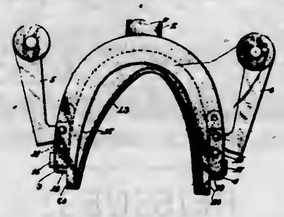
A device of the character described formed from a single strip of resilient metal bent upon itself intermediate its ends to define a substantially rectangular open frame and having its end portions brought together to define an elongated shank, the free end of the shank being formed with a hole and the frame portion being formed in opposite sides with holes and with constricted slots leading into said holes and extending to one edge of the frame.

1,422,805. GIG. JOHN D. WOODS and DENNIS J. PALMER, Steubenville, Ohio. Filed Apr. 9, 1921. Serial No. 459,935. 2 Claims. (Cl. 43—6.)



2. A device of the class described comprising a gig, including a spring pressed spear rod, a handle member having an eye for engaging the gig, a lever on the handle member, a slidable latch plate on the gig for holding the spear rod in retracted position and a cable connecting the lever with the said latch plate.

1,422,806. BED-LASTER END CLASP. CHARLES F. ADAMS, Swampscott, Mass., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn., a Corporation of Massachusetts. Filed Sept. 9, 1920. Serial No. 409,156. 9 Claims. (Cl. 12—14.1.)

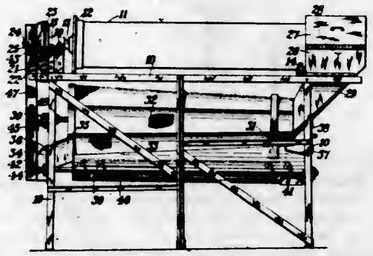


1. An end-lasting device comprising a flexible member having a recess formed in its inner face, and an upper engaging pad fitted within said recess.

1,422,807. SEPARATING OR SORTING APPARATUS. CHARLES JOSHUA LANE, London, England, assignor to Cyril Frank Elwell, London, England. Filed Oct. 1, 1921. Serial No. 504,812. 3 Claims. (Cl. 83—56.)

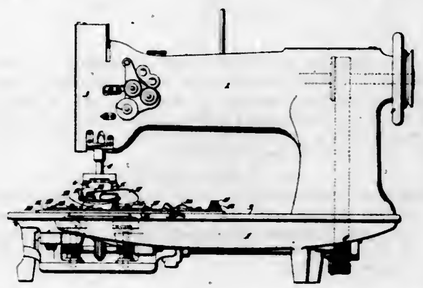
1. In sifting apparatus, the combination of a stand, a drum open at one end rotatably and removably mounted in said stand with its lower surface inclined down-

wardly from the horizontal, and its open end lower than its closed end, a housing surrounding the open end of said drum, a chute leading downwards from said housing, an open-ended conical sieve rotatably mounted in said stand with its axis below and parallel with the axis of said drum, the angle at the apex of the cone of said



sieve being greater than twice the angle of inclination of the drum axis downwards from the horizontal, said sieve being arranged with its smaller open end enclosing the lower end of said chute, a delivery chute disposed below the open larger end of said sieve, and a tray extending lengthwise of said sieve below it to receive material passing through it.

1,422,808. STRIP GUIDING AND CONTROLLING ATTACHMENT FOR SEWING MACHINES. JOHN C. RINGE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Feb. 11, 1918. Serial No. 216,482. 11 Claims. (Cl. 112—152.)

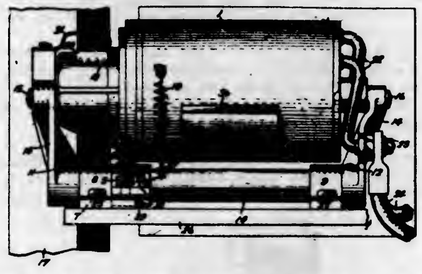


1. A strip-controlling attachment for sewing machines, comprising a strip-guide, edge-diverting means adapted to act upon an edge of a strip beyond the delivery end of said strip-guide and divert said edge from its normal course, and means independent of said strip-guide for at will rendering said edge diverting means effective.

REISSUES.

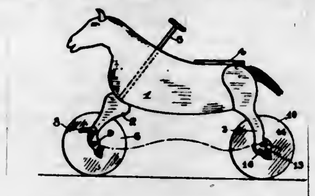
15,403. ENGINE-STARTING DEVICE. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed May 18, 1921. Serial No. 470,610. Original No. 1,304,252, dated May 20, 1919, Serial No. 849,444, filed July 7, 1914. 25 Claims. (Cl. 290—48.)

1. Apparatus of the class described, comprising in combination, an engine, a motor adapted to start said engine, an engine-driven member, a motor-driven member radially off-set therefrom, and means operated by the initial rotation of said motor to swing said motor-driven member into power-transmitting engagement with said engine-driven member through an arc in the plane of the said engine-driven member about an axis which is positioned



from the surface of said engine-driven member at a distance greater than the length of the effective radius of said motor-driven member.

15,404. CHILD'S VEHICLE. NORBERT CHAPDELAINE, Montreal, Quebec, Canada, assignor, by mesne assignments, to International Toy Company, Limited, Montreal, Canada, a Corporation. Filed Mar. 27, 1922. Serial No. 547,250. Original No. 1,333,425, dated Mar. 30, 1920, Serial No. 303,233, filed June 10, 1919. Reissue No. 15,148, dated July 12, 1921. Serial No. 456,204, filed Mar. 28, 1921. 13 Claims. (Cl. 208—42.)



1. In a child's vehicle, a body having legs extending frontwardly and rearwardly therefrom, a wheel journaled centrally in relation to its tread between the front legs and forming a pivot for said body and also a steering member, foot rests projecting from and rigid with said front legs, a rear wheel journaled eccentrically in relation to its tread between said rear legs and forming the propulsion member and a seat situated in a forward position in relation to said rear wheel.

15,405. TIRE. WILLIAM G. FOARDING, Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Mar. 2, 1922. Serial No. 540,607. Original No. 1,401,148, dated Dec. 27, 1921, Serial No. 104,390, filed June 19, 1916. 17 Claims. (Cl. 152—13.)



6. A tire casing having a carcass portion comprising a series of layers of material reversely folded back and forth across the tire progressively from the inner to the outer layer, and separate bead sections enclosed in folds of the material at the beginning and end of each complete layer.

15,406. KEY BASE FOR PLASTIC MATERIAL. JONATHAN O. FOWLER, New York, N. Y. Filed May 8, 1922. Serial No. 559,432. Original No. 1,390,774, dated Sept. 13, 1921, Serial No. 255,197, filed Sept. 21, 1918. 17 Claims. (Cl. 72—116.)

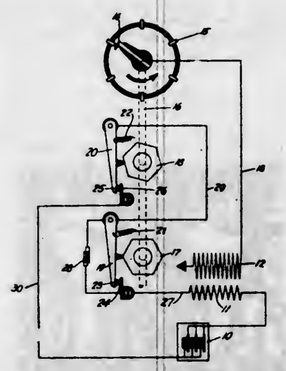


12. In a device of the class described, a base comprising a foundation sheet having a set of spaced wires on one face thereof and another set of spaced wires on the opposite face of said sheet, but running in a different direction from those first named, there being spaced perforations in said sheet at points coinciding with the crossing of the wires of the said two sets, and fused joints uniting the crossing wires at said perforations, to form means to hold a plaster coat.

15,407. ALUMINUM ALLOY. FRANCIS C. FRARY, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylania. Filed May 27, 1922. Serial No. 564,272. Original No. 1,412,280, dated Apr. 11, 1922, Serial No. 369,695, filed Mar. 29, 1920. 21 Claims. (Cl. 75—1.)

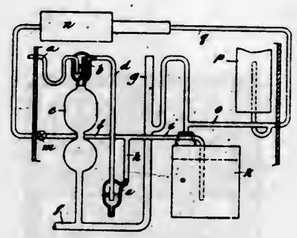
1. An alloy comprising aluminum, copper, magnesium and calcium, calcium not being the main constituent.

15,408. IGNITION SYSTEM. WILLIAM O. KENNINGTON, London, England, assignor to The Remy Electric Company, a Corporation of Indiana. Filed Feb. 27, 1922. Serial No. 539,778. Original No. 1,347,511, dated July 27, 1920, Serial No. 255,046, filed Sept. 21, 1918. 6 Claims. (Cl. 123—48.)



1. In an ignition system, a non-back-firing device comprising a primary coil with a source of current therefor, and a secondary coil with connections for producing sparking impulses; of a main make and break point, and an auxiliary make and break point, both in series in said primary circuit; means for operating said make and break points in quick succession, the main make and break being operated first in the normal rotation of the engine and last in the reverse rotation, with a condenser shunted around the contact points of the main make and break point only, substantially as and for the purpose described.

15,409. GAS-ANALYZING APPARATUS. OLOF RODHE, Stockholm, Sweden, assignor to Aktiebolaget Ingeniörsfirma Fritz Egnell, Stockholm, Sweden. Filed Mar. 3, 1922. Serial No. 540,914. Original No. 1,302,224, dated Apr. 29, 1919, Serial No. 145,206, filed Jan. 29, 1917. 7 Claims. (Cl. 23—3.)



1. Automatically operated gas analyzing apparatus for two or more individual analyses of a gas mixture streaming through the apparatus in one direction only, comprising first measuring apparatus, absorption apparatus, second or final measuring apparatus and registering apparatus, means for connecting said apparatuses to allow the flow of gas through the same in two channels having one or more parts of the apparatus in common but each channel having other of said parts independent of the other channel, and controlling means for causing the gas flow to take one or the other channel through the first and final measuring apparatus always in the same direction.

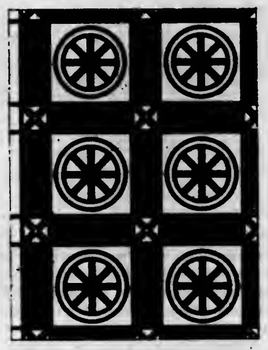
15,410. THREAD-MILLING MACHINE. CHARLES H. SCHURR and ERNEST J. LEES, Cleveland, Ohio, assignors to The Lees-Bradner Co., Cleveland, Ohio. Filed May 20, 1922. Serial No. 562,527. Original No. 1,355,854, dated Oct. 19, 1920, Serial No. 210,633, filed Jan. 7, 1918. 8 Claims. (Cl. 10—154.)



1. A thread milling machine comprising a work spindle, a tool spindle, means for rotating each, a movable support for one of said spindles, a lead screw operatively connected with said support and adapted to actuate the same, intermediary spindles, a train of gearing upon said spindles respectively in part adapted to connect said work rotating means with said lead screw, a plurality of said intermediary spindles being rotatable at different speeds and having projecting ends to serve as alternative driving units, one unit of said train of gearing being detachably securable upon one of the projecting spindle ends whereby one or the other of the latter becomes an active unit of said connection.

DESIGNS.

61,186. DRESS FABRIC. ALBINA CABALKA, Geddes, S. Dak. Filed Mar. 23, 1922. Serial No. 1,354. Term of patent 3½ years.



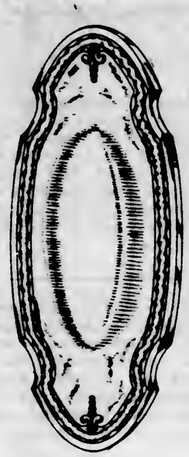
The ornamental design for a dress fabric, as shown.

61,187. WALL BRACKET FOR LIGHTING FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Feb. 10, 1921. Serial No. 444,034. Term of patent 3½ years.



The ornamental design for a wall bracket for lighting fixtures as shown.

61,188. PLATE FOR WALL BRACKETS FOR LIGHTING FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Feb. 10, 1921. Serial No. 444,035. Term of patent 3½ years.



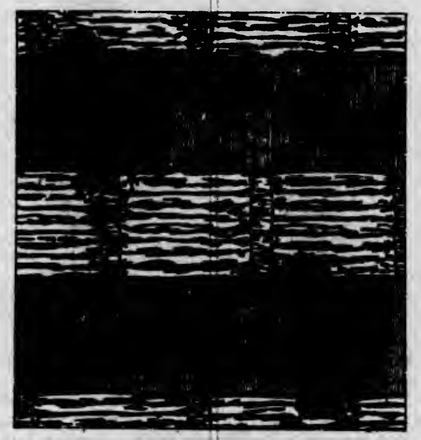
The ornamental design for a plate for wall brackets for lighting fixtures as shown.

61,189. LACE. ELIZABETH ANDERSON DAVIS, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1922. Serial No. 1,565. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

61,190. FABRIC. WILLIAM DOWLING, New York, N. Y., assignor to Golding Bros. Company, New York, N. Y., a Corporation of New York. Filed Mar. 30, 1922. Serial No. 1,459. Term of patent 7 years.



The ornamental design for a fabric, as shown and described.

61,191. EMBLEM, BADGE, BROOCH, PIN, CUFF BUTTON, WATCH FOB, OR ARTICLE OF SIMILAR NATURE. CHARLES B. DYER, Indianapolis, Ind. Filed Mar. 27, 1922. Serial No. 1,421. Term of patent 14 years.



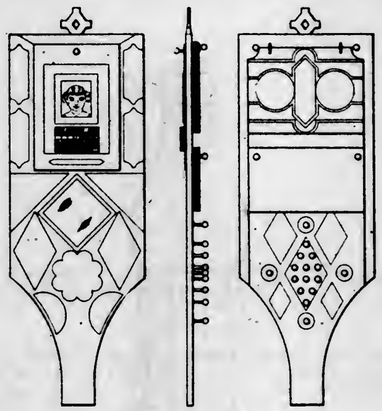
The ornamental design for emblem, badge, brooch, pin, cuff button, watch fob, or article of similar nature, as shown.

61,192. GREASE GUN. DOUGLAS F. FEALER, Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company, a Corporation of Delaware. Filed June 30, 1919. Serial No. 307,862. Term of patent 14 years.



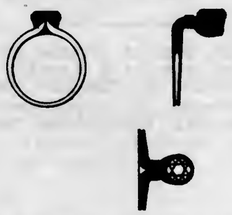
The ornamental design for a grease gun as shown.

61,193. COMBINED WRITING PAD AND ADVERTISING DEVICE OR ARTICLE OF SIMILAR NATURE. RICHARD M. GAFFNEY, St. Louis, Mo. Filed Mar. 11, 1922. Serial No. 1,119. Term of patent 14 years.



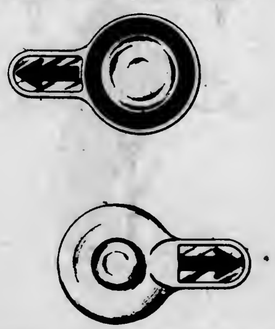
The ornamental design for a combined writing pad and advertising device or article of similar nature, substantially as shown.

61,194. RING. WALLACE G. GINDER, Los Angeles, Calif., assignor to Brock and Company, Los Angeles, Calif., a Corporation of California. Filed June 1, 1920. Serial No. 385,836. Term of patent 14 years.



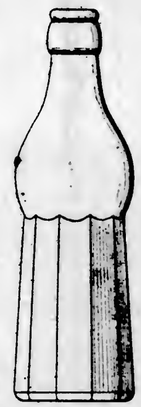
The ornamental design for a ring, as shown.

61,195. COMBINATION MIRRORSCOPE, PARKING LIGHT, and DIRECTION INDICATOR. WILLIAM P. HAMMOND, Maplewood, N. J. Filed May 11, 1921. Serial No. 468,690. Term of patent 14 years.



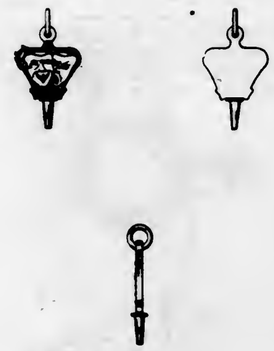
The ornamental design for a combination mirrorscope, parking light, and direction indicator, as shown and described.

61,196. BOTTLE. CLAUDE JOHNSTONE, St. Louis, Mo. Filed Aug. 8, 1921. Serial No. 490,802. Term of patent 14 years.



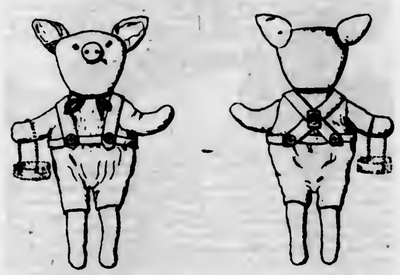
An ornamental design for a bottle as shown.

61,197. BADGE, BUTTON, CHARM, EMBLEM, PIN, OR ARTICLE OF SIMILAR NATURE. THOMAS C. KATKE, Milwaukee, Wis., assignor to Bunde & Upmeyer Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 20, 1922. Serial No. 786. Term of patent 7 years.



The ornamental design for a badge, button, charm, emblem, pin, or article of similar nature, as shown.

61,198. PIG DOLL. ISABELLA KERBY, East Helena, Mont. Filed Feb. 20, 1922. Serial No. 796. Term of patent 7 years.



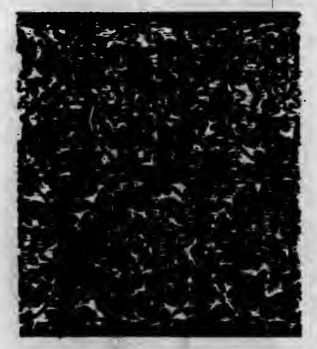
The ornamental design for a pig doll as shown.

61,199. SAFETY PAPER. CHARLES KEES, Cleveland, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,333. Term of patent 3½ years.



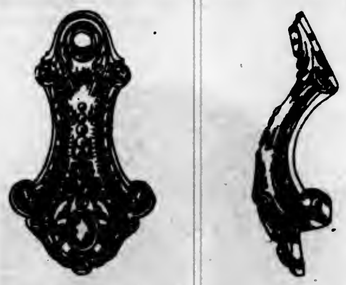
The ornamental design for safety paper, as shown.

61,200. LACE. JOHN LANGENEGGER, New York, N. Y., assignor to Blanck & Company, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1922. Serial No. 1,563. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

61,201. LIGHTING-FIXTURE ARM. LOUIS LEVINE, Brooklyn, N. Y. Filed Oct. 8, 1921. Serial No. 506,529. Term of patent 7 years.



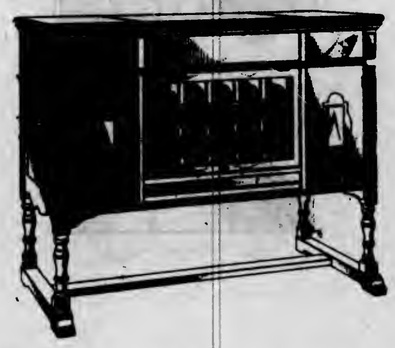
The ornamental design for a lighting fixture-arm, as shown.

61,202. GLOBE FOR LIGHTING FIXTURES. LOUIS B. LONDON, New York, N. Y. Filed Oct. 8, 1921. Serial No. 506,528. Term of patent 7 years.



The ornamental design for a globe for lighting fixtures, as shown.

61,203. PHONOGRAPH CABINET. LACHLAN MACLACHLAN, Grand Rapids, Mich., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1921. Serial No. 513,597. Term of patent 7 years.



The ornamental design for a phonograph cabinet, as shown.

61,204. BADGE, PIN, BUTTON, OR A SIMILAR ARTICLE OF MANUFACTURE. WILLIAM L. MANN, New York, N. Y. Filed Feb. 12, 1921. Serial No. 444,611. Term of patent 3½ years.



The ornamental design for a badge, pin, button, or a similar article of manufacture, as shown.

61,205. SAFETY PAPER. FRANK MEYER, Lakewood, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,317. Term of patent 3½ years.



The ornamental design for safety paper, as shown.

61,206. DOLL. ANGELINE NORQUIST, Minneapolis, Minn. Filed Dec. 8, 1921. Serial No. 521,041. Term of patent 7 years.



The ornamental design for a doll, as shown.

61,207. DOLL. CORA O. OLIVER, Oklahoma, Okla. Filed Feb. 28, 1922. Serial No. 942. Term of patent 3½ years.



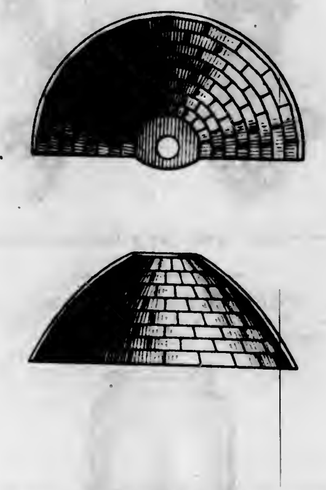
The ornamental design for a doll substantially as shown.

61,208. FINGER RING. DAVID ORNSTEIN, New York, N. Y. Filed Mar. 13, 1922. Serial No. 1,137. Term of patent 3½ years.



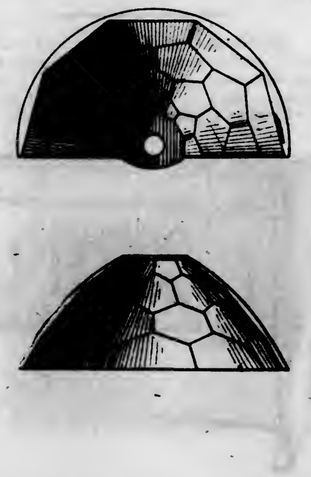
The ornamental design for a finger ring, as shown.

61,209. LIGHT DIFFUSER. OTHO M. OTTE, Tarentum, Pa. Filed Feb. 12, 1920. Serial No. 358,146. Term of patent 3½ years.



The ornamental design for a light diffuser, substantially as shown.

61,210. LIGHT DIFFUSER. OTHO M. OTTE, Tarentum, Pa. Filed Feb. 12, 1920. Serial No. 358,147. Term of patent 3½ years.



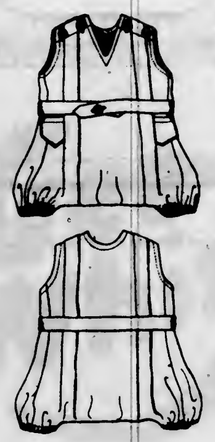
The ornamental design for a light diffuser, substantially as shown.

61,211. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Feb. 2, 1922. Serial No. 514. Term of patent 7 years.



The ornamental design for lace substantially as shown.

61,212. OUTER GARMENT. KATHARINE LESLIE POWELL, Amherst, Mass. Filed Jan. 31, 1922. Serial No. 470. Term of patent 3½ years.



The ornamental design for an outer garment, as shown.

61,213. SAUTOIR WATCH HOLDER. GUSTAV RIEXINGER, Toronto, Ontario, Canada, assignor to W. A. Milligan and Company, Limited, Toronto, Ontario, Canada. Filed Feb. 18, 1922. Serial No. 766. Term of patent 3½ years.



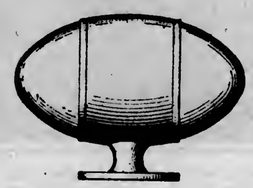
The ornamental design for a sautoir watch holder as shown.

61,214. TOY. ABRAHAM H. SHENK, Joliet, Ill. Filed Nov. 25, 1921. Serial No. 517,797. Term of patent 3½ years.



The ornamental design for a toy, as shown.

61,215. PARKING LIGHT. HENRY HOWARD TAYLOR, Milwaukee, Wis. Filed Dec. 20, 1920. Serial No. 432,118. Term of patent 3½ years.



The ornamental design for a parking light, as shown.

61,216. COMBINED PHONOGRAPH AND LAMP STAND. SOLOMON TRUSTMAN, Detroit, Mich., assignor of one-half to Amos Emsley, Detroit, Mich. Filed Nov. 30, 1921. Serial No. 518,997. Term of patent 14 years.



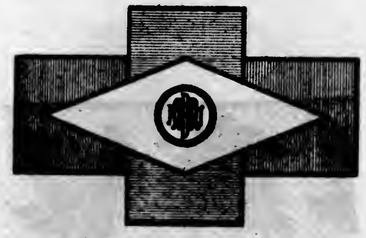
The ornamental design for a combined phonograph and lamp stand as shown.

61,217. COMBINATION CLOCK, PICTURE, AND MIRROR FRAME. JOSEPH URBANEK, Chicago, Ill. Filed Apr. 6, 1922. Serial No. 1,562. Term of patent 14 years.



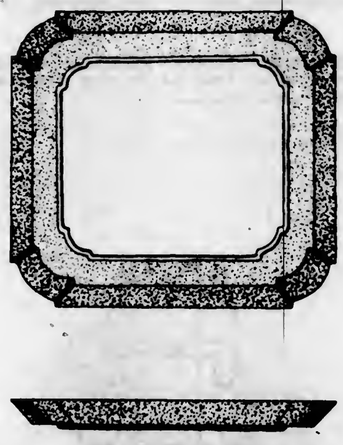
The ornamental design for a combination clock, picture, and mirror frame, as shown.

61,218. EMBLEM, SIGN, BADGE, BUTTON, OR ARTICLE OF SIMILAR NATURE. CHRISTY A. VANE, St. Louis, Mo., assignor to National Automobile Dealers' Association, St. Louis, Mo., an Association of Illinois. Filed Apr. 14, 1922. Serial No. 1,747. Term of patent 14 years.



The ornamental design for an emblem, sign, badge, button, or article of similar nature, as shown.

61,219. PLAQUE. HARRY W. WHIPPLE, Kansas City, Mo. Filed Mar. 24, 1920. Serial No. 368,415. Term of patent 3½ years.



The ornamental design for a plaque, as shown and described.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 11, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 117,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARENCE C. HAY, Como, Miss. Filed Apr. 11, 1919.

HAY-PO

Any and all right to the before-and-after pictures shown on the labels filed with the application, to any before-and-after pictures, and to any and all matter other than the word "Hay-Po" is disclaimed.

Particular description of goods.—Hair Dressing.

Claims use since Feb. 27, 1917.

Ser. No. 129,545. (CLASS 45. BEVERAGES, NONALCOHOLIC.) GRONE & Co., St. Louis, Mo. Filed Mar. 11, 1920.

Gee Whiz

Particular description of goods.—Beverages, More Specifically Soda Water.

Claims use since Feb. 25, 1920.

Ser. No. 129,573. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHERER, BURNELL & SCHERER, INC., New York, N. Y. Filed Mar. 11, 1920.

SCHERER, BURNELL & SCHERER INC. N.Y. TRU-BLU TRADE MARK INDUSTRIAL LABORATORIES

No claim is made to words "Trade Mark" and "Industrial Laboratories," "Tru-Blu," and letters "N. Y." apart from mark shown in drawing.

Particular description of goods.—Laundry Blue or Bluing.

Claims use since Nov. 10, 1919.

Ser. No. 131,334. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE C. M. KEMP MFG. CO., Baltimore, Md. Filed Apr. 19, 1920.

KEMP

Particular description of goods.—Gas Apparatus and Gas Burners, Particularly Apparatus for Mixing Air and Gas to Form Fuel Gas and Burners for Heating Purposes.

Claims use since on or about Jan. 1, 1911.

Ser. No. 132,736. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FLEXLUME SIGN COMPANY, Buffalo, N. Y. Filed May 21, 1920.

DAY-NIGHT

Particular description of goods.—Electrically-Illuminated Signs.
Claims use since March, 1912.

Ser. No. 133,015. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WRIGHT & ALEXANDER COMPANY, Rochester, N. Y. Filed May 27, 1920.

WRIALCO

Trade-mark "Wrialco."
Particular description of goods.—Metal Inserts for Anchoring Piping and Shafting, Etc., to Concrete Construction.
Claims use since on or about Jan. 24, 1908.

Ser. No. 134,112. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CARAVEL COMPANY, INC., New York, N. Y. Filed June 24, 1920.

CARAVEL [ship] PANY, INC.

Particular description of goods.—Ice and Roller Skates, Baseballs, Bats, Baseball and Sporting Mitts, Footballs, Protectors and Pads for All Parts of the Body in Sports, Goal Posts; Golf Balls, Sticks, and Bags; Medicine Balls; Squash, Hand, and Tennis Balls; Rackets, Nets, Court Markers; Exercising Apparatus—Namely, Dumb-Bells, Indian Clubs, Exercising Poles, Parallel Bars, and Horses; Fishing Tackle—Namely, Flies, Reels, Nets, Rods, and Baskets; Playing Cards and Card Games, Polo Sticks and Balls; Archery Bows, Crossbows, Arrows, and Accoutrements; Toy Printing Presses, Toy Sewing Machines; Cricket Bats, Balls, Gloves, Gauntlets, Leg Guards, Stumps; Croquet Balls, Mallets, Arches, Posts, Clips; Hockey Sticks, Boomerangs, Shuttlecocks, Toy Wheelbarrows, Stuffed Animals, Puzzles, Soldiers, Toy Building Blocks, Mechanical Toys, Elastic and Inflated Toys, Balls, Balloons, Favors, Ankle and Wrist Supporters, Crab and Fish Traps and Nets, and Game Tables.
Claims use since about June 1, 1918.

Ser. No. 139,438. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

FEZ

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since about Aug. 1, 1910.

Ser. No. 139,439. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

FLYER

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1904.

Ser. No. 139,440. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

MUTUAL

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids, and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Aug. 1, 1905.

Ser. No. 139,441. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

ORFULO

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1916.

Ser. No. 139,442. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

PANDORA

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Sept. 1, 1912.

Ser. No. 139,443. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

PIGMENT

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1904.

Ser. No. 139,444. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

Purchase

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Aug. 1, 1900.

Ser. No. 139,445. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

UTOPIA

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about July 1, 1906.

Ser. No. 139,446. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

VERILO

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1916.

Ser. No. 139,766. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

ADMIRAL

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since Jan. 1, 1905.

Ser. No. 139,767. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

ADAMANT

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1897.

Ser. No. 139,769. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.



No claim to the word "Brushes." The lining on drawing denotes shading and does not represent color.
Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1884.

Ser. No. 139,770. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

BALTIC

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1906.

Ser. No. 139,771. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.

BEEKMAN

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1893.

Ser. No. 139,772. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.

BELGRADE

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1890.

Ser. No. 139,773. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.

BLACK & TAN

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1891.

Ser. No. 139,774. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.

CRYSTAL

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1891.

Ser. No. 139,775. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

DIANA

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Mar. 1, 1900.

Ser. No. 139,776. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

GILTEDGE

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1897.

Ser. No. 139,825. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

IRIS

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1908.

Ser. No. 139,826. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

KOMO

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1906.

Ser. No. 139,828. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

LOTUS

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1908.

Ser. No. 139,832. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

TOP NOTCH

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1895.

Ser. No. 139,834. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

VIKING

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1908.

Ser. No. 139,835. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

YAMPAH

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1900.

Ser. No. 140,154. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 24, 1920.

OWL

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1889.

Ser. No. 140,155. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 24, 1920.



No claim made to a representation of a brush apart from the other features of the mark.
Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1889.

Ser. No. 140,228. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920.

AFRIC

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Nov. 1, 1899.

Ser. No. 140,229. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920.

AGO

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Nov. 1, 1899.

Ser. No. 140,230. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920. Under ten-year proviso.

OXFORD

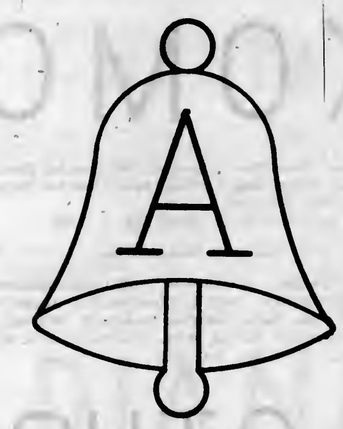
Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Nov. 1, 1892.

Ser. No. 140,231. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920.

P+A.

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Nov. 1, 1887.

Ser. No. 140,235. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920.



No claim is made to use of letter "A" apart from the mark shown.
Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Nov. 1, 1905.

Ser. No. 140,421. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 29, 1920.

P.O.K.

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Nov. 1, 1884.

Ser. No. 140,422. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 29, 1920.

P.X.

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Nov. 1, 1884.

Ser. No. 141,049. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHITE BLUFFS WAREHOUSE CO., White Bluffs, Wash. Filed Dec. 13, 1920.



Particular description of goods.—Fresh Apples.
Claims use since Sept. 1, 1920.

Ser. No. 141,318. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Dec. 20, 1920.

FEATHER WEIGHT

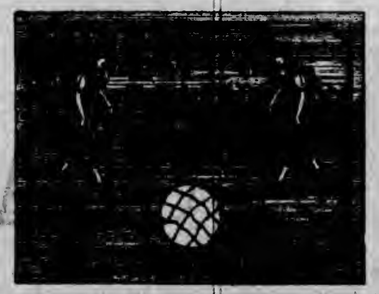
Particular description of goods.—Shovels and Scoops.
Claims use since Apr. 10, 1914.

Ser. No. 141,753. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BEACON MANUFACTURING COMPANY, Providence, R. I. Filed Jan. 3, 1921.

Beacon Blankets make Warm Friends

Particular description of goods.—Blankets; Plaid, Indian, Camping, Government, Army, Navy, Crib, and Bath-Robe Blankets; Jacquard Comfortables, Traveling Rugs, Baby Bags for Use as Coverings, and Bath-Robe Flannel and Blanket Goods in the Piece, All Made Wholly of Cotton.
Claims use since August, 1919.

Ser. No. 143,491. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. GOLDABER & Co., New York, N. Y. Filed Feb. 12, 1921.



Apart from mark shown exclusive use is disclaimed as to the representation of the goods and the words "The Double Strength," "Human Hair Net," "See how it is knotted from double strands of real human hair," "Shape," and "Color," and "Doubles the Wear."
Particular description of goods.—Human-Hair Nets.
Claims use since Jan. 15, 1921.

Ser. No. 144,023. (CLASS 17. TOBACCO PRODUCTS.) THE JOHN C. GUY COMPANY, INCORPORATED, Lexington, Ky. Filed Feb. 25, 1921.



The trade-mark consists of the legend "Seal of Lexington." No claim is made to the word "Lexington" apart from the legend "Seal of Lexington." The surface lines in drawing are for shading only.
Particular description of goods.—Cigars.
Claims use since about Jan. 1, 1917.

Ser. No. 144,148. (CLASS 8. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE PERKINS-CAMPBELL COMPANY, Cincinnati, Ohio. Filed Feb. 28, 1921. Under ten-year proviso.

WHITMAN

Particular description of goods.— Equestrian Equipments, Notably Saddles, Bridles, Bits, Stirrups, Saddle-Cloths, Halters, and Parts of the Above.
Claims use since 1878.

Ser. No. 145,873. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BOOTT MILLS, Lowell, Mass. Filed Apr. 8, 1921.

KASEMENT SKRIM

No claim is made to word "Skrim" apart from the mark shown.
Particular description of goods.—Scrim in the Piece.
Claims use since Feb. 1, 1921.

Ser. No. 146,286. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE ASHTABULA BOW SOCKET COMPANY, Ashtabula, Ohio. Filed Apr. 18, 1921.

"CLEAR VISION"

Particular description of goods.—Bow Sockets for Vehicle Tops and Fittings Therefor.
Claims use since November, 1920.

Ser. No. 146,387. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PATON, CALVERT & Co., LIMITED, Liverpool, England. Filed Apr. 19, 1921.

KOKO

The lining forming background of the mark is for shading and does not represent any particular color.

Particular description of goods.—Blacking in Liquid or Paste Form, Patent-Leather Polish, Metal Polish, Plate Powder, Harness Composition or Blacking, Knife Powder, Prepared Polishing Cloths, and Saddle Paste.

Claims use since on or about Aug. 26, 1916.

Ser. No. 146,844. (CLASS 20. LINOLEUM AND OILED CLOTH.) THE POCOCK MANUFACTURING COMPANY, LIMITED, Hamilton, Ontario, Canada. Filed Apr. 27, 1921.

KORK

Safe – Silent – Sanitary

No claim made to words "Safe," "Silent," and "Sanitary" nor to the words "Kork Stair Treads" apart from the mark shown.

Particular description of goods.—Cork Stair Treads.

Claims use since Mar. 1, 1921.

Ser. No. 147,359. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MARK J. MURPHY, Chicago, Ill. Filed May 7, 1921.

RELIANCE

Particular description of goods.—Malt Extract.

Claims use since Apr. 1, 1919.

Ser. No. 148,290. (CLASS 39. CLOTHING.) R. H. MACY & CO. INC., New York, N. Y. Filed May 26, 1921.

MAY C MAID

Particular description of goods.—Aprons.

Claims use since May 21, 1921.

Ser. No. 148,409. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1921.

CYCLOPS

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1893.

Ser. No. 148,410. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1921.

SUPREME

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Sept. 1, 1901.

Ser. No. 148,411. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1921.

ULYSSES

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1893.

Ser. No. 148,412. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1921.

USONA

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Apr. 1, 1918.

Ser. No. 150,121. (CLASS 43. THREAD AND YARN.) BAY STATE THREAD WORKS, Springfield, Mass. Filed July 8, 1921.

"BAY STATE thread works"

No claim made to the representation of the spools of thread shown in drawing.

Particular description of goods.—Cotton Threads.

Claims use since on or about Apr. 1, 1921.

Ser. No. 150,211. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ANHEUSER-BUSCH, INCORPORATED, St. Louis, Mo. Filed July 11, 1921.

KAFFO

Particular description of goods.—Maltless Carbonated Coffee Beverage Sold as a Soft Drink.

Claims use since Jan. 7, 1921.

Ser. No. 150,927. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH H. OVERHAUSER, Portland, Oreg. Filed July 25, 1921.

Trait

Particular description of goods.—Candy.

Claims use since Sept. 28, 1915.

Ser. No. 150,937. (CLASS 39. CLOTHING.) STRAUS MFG. CO., Erie, Pa. Filed July 25, 1921.

KNICK-ERIES

Particular description of goods.—Pants.

Claims use since 1882.

Ser. No. 151,763. (CLASS 39. CLOTHING.) ARTHUR LITT & Co., New York, N. Y. Filed Aug. 13, 1921.

Wear-Ever

Particular description of goods.—Men's Suits, Trousers, and Overcoats.

Claims use since about July 1, 1921.

Ser. No. 151,918. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PEARL KUETZINGER, doing business as L & P Soap Company, Detroit, Mich. Filed Aug. 18, 1921.

BEFORE AFTER USING

The "WORLD'S WONDER" SOAP KRUMBLES

No claim is made to the words "Soap Krumbles," "Before," and "After Using" apart from mark shown. The picture is fanciful.

Particular description of goods.—Soap.

Claims use since May 5, 1921.

Ser. No. 151,948. (CLASS 39. CLOTHING.) INDIVIDUAL TAILORING COMPANY, Cincinnati, Ohio. Filed Aug. 19, 1921.

Individual Tailoring Co.

Factory to you

No claim to the words "Individual Tailoring Co. Factory to You" except as shown on drawing.

Particular description of goods.—Men's and Young Men's Clothing Consisting of Overcoats, Raincoats, Coats, Vests, and Trousers.

Claims use since Mar. 15, 1921.

Ser. No. 152,423. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOLBERT & HOLBERT, doing business as Holbert Syrup Co., Manhattan, Kans. Filed Aug. 31, 1921.

Gold Seal

Particular description of goods.—Sirup Made from Pure Sugar Cane Flavored with Maple Flavoring for Cooking Purposes.

Claims use since Aug. 1, 1921.

Ser. No. 153,112. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN SEXTON AND COMPANY, Chicago, Ill. Filed Sept. 19, 1921.

EDELWEISS

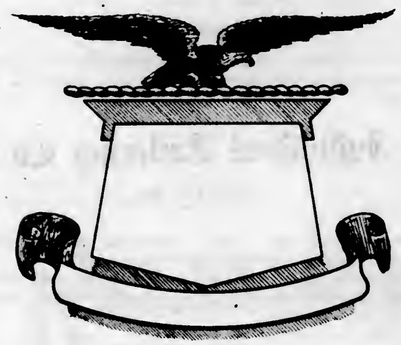
Particular description of goods.—Crushed Fruits, Fruit Sirups, Flavoring Extracts, Colors, Concentrated Root-Beer Stock and Extract, Cocoa Stock, and Liquid Fudges for Soda-Fountain Use and for Preparing Soft Drinks, and Flavoring Sirups for Soda Water and Other Nonalcoholic Beverages; Liquid Phosphate, Fruit and Imitation-Fruit Phosphates for Preparing Nonalcoholic Beverages, Extract for Making Root Beer, Cider, and Grape Juice.
Claims use since Oct. 1, 1904.

Ser. No. 153,121. (CLASS 39. CLOTHING.) ANSBACHER & VAN BAALEN, New York, N. Y. Filed Sept. 20, 1921.

VANTEX

Particular description of goods.—Hosiery.
Claims use since Sept. 1, 1921.

Ser. No. 153,239. (CLASS 39. CLOTHING.) THE COMER MANUFACTURING COMPANY, Dayton, Ohio. Filed Sept. 23, 1921.



Particular description of goods.—Raincoats, Cravenettes, Gabardines, Bath Robes, and Ladies' Skirts.
Claims use since fall of 1914.

Ser. No. 153,255. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NUNNALLY COMPANY, Atlanta, Ga. Filed Sept. 23, 1921.

HOME FOLKS' ASSORTMENT

No claim made to word "Assortment" apart from the mark shown.
Particular description of goods.—Candy.
Claims use since 1911.

Ser. No. 153,308. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MOTT & WOOD CO., Wisconsin Rapids, Wis. Filed Sept. 24, 1921.

Heathmade

Particular description of goods.—Butter.
Claims use since Apr. 4, 1920.

Ser. No. 153,677. (CLASS 39. CLOTHING.) J. A. MIGEL, INC., New York, N. Y. Filed Oct. 3, 1921.



GOLF-LINKS

Particular description of goods.—Ladies' and Misses' Silk Shirt Waists, Suits, Blouses, Skirts, Dresses, Petticoats, Nightgowns, and Underwear Made of Textile Fabrics, and Bathing Suits Made of Silk; Men's and Boys' Neckties, Pyjamas, Dressing Gowns, Nightgowns, Blouses, and Underwear Made of Textile Fabrics.
Claims use since July 14, 1921.

Ser. No. 153,742. (CLASS 39. CLOTHING.) ABE MILLMAN, INC., New York, N. Y. Filed Oct. 4, 1921.

Duo-Mode

KNICKER DRESS

No claim made to word "Knicker" or the word "Dress" apart from mark except in the combination "Knicker Dress."
Particular description of goods.—Outer Garment for Females—Namely, a Dress with Divided Skirt.
Claims use since Sept. 12, 1921.

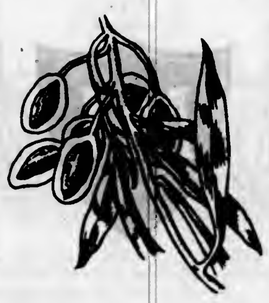
Ser. No. 153,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE J. MCCABE, doing business as McCabe Drug Co., Nekoma, N. Dak. Filed Oct. 8, 1921.

GOOSOLE
Geo. J. McCabe
GOOSOLE

Particular description of goods.—Medicines for External Use for the Treatment of Coughs, Colds, Whooping Cough, Bronchitis, Asthma, Pleurisy, Neuralgia, Sore Throat, Frosted Feet, Rheumatism, Sore Joints, and Sore Muscles.
Claims use since February, 1920.

Ser. No. 154,083. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMANUEL KLEIN, New York, N. Y. Filed Oct. 14, 1921.

ALIVOLA



Particular description of goods.—Pure-Fat Salad Oil and Cooking Oil.
Claims use since Apr. 10, 1920.

Ser. No. 154,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES B. MCCOMB, Scarsdale, N. Y. Filed Oct. 19, 1921.

Aladdin

Particular description of goods.—Liquid Food-Flavoring Extracts.
Claims use since January, 1915.

Ser. No. 154,587. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GERMAN CAKE CORPORATION, Cleveland, Ohio, Detroit, Mich., St. Paul and Minneapolis, Minn., and Chicago, Ill. Filed Oct. 26, 1921.



Particular description of goods.—Cakes, Cookies, and Fried Cakes.
Claims use since on or about Nov. 1, 1918.

Ser. No. 154,837. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed Oct. 31, 1921. Under ten-year proviso.

NEWPORT

"Newport" trade-mark.
Particular description of goods.—Candy.
Claims use since 1887.

Ser. No. 154,883. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAY BROS. CO., Fremont, Nebr. Filed Nov. 1, 1921.

PATHFINDER



The portrait is that of Gen. John C. Fremont, (deceased).
Particular description of goods.—Canned Fruits, Canned Vegetables, Rolled Oats, Olives, Peanut Butter, Spices, Food-Flavoring Extracts, Catsup, Pickles, Prepared Mustard, Fruit Preserves, and Candies.
Claims use since July 1, 1921.

Ser. No. 154,984. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEYSTONE FLOUR CO., INCORPORATED, Philadelphia, Pa. Filed Nov. 3, 1921.

LU-LU

Particular description of goods.—Wheat Flour.
Claims use since May 1, 1921.

Ser. No. 155,014. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCE FRUIT COMPANY, Eustis, Fla.. Filed Nov. 4, 1921.



Particular description of goods.—Fresh Oranges, Grapefruits, and Tomatoes.
Claims use since Nov. 1, 1921.

Ser. No. 155,020. (CLASS 39. CLOTHING.) HELMHOLZ MITTEN COMPANY, Cudahy, Wis. Filed Nov. 4, 1921.



No claim is made to words "Back Seam" apart from mark shown.
Particular description of goods.—Gloves and Mittens Made of Leather and Fabric.
Claims use since Oct. 13, 1919.

Ser. No. 155,052. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. H. ECKERT, Los Angeles, Calif. Filed Nov. 5, 1921.



Trade-mark is in the form of a red star.
Particular description of goods.—Meat and Bone Scraps for Use as Poultry Feed.
Claims use since about Mar. 1, 1919.

Ser. No. 155,201. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MI CANDY COMPANY, New York, N. Y. Filed Nov. 8, 1921.



Particular description of goods.—Sugar-Toasted Peanuts.
Claims use since Jan. 1, 1920.

Ser. No. 155,288. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE WICKERCRAFT, Pasadena, Calif. Filed Nov. 10, 1921.

Wickercraft

Particular description of goods.—Furniture Made of Reed, Rattan, and Fiber—Namely, Chairs, Rockers, Settees, Davenports, Stools, Day Beds, Chaise Lounges, Couches, Diners, Ferneries, Telephone Stools, Sewing Stands, Costumers, Desks, Tables, Tea Wagons, Hampers, Bookcases, Beds, Dressers, Dressing Tables, and Porch Swings.
Claims use since Mar. 9, 1917.

Ser. No. 155,363. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE PACKARD ENGINEERING CO., Cleveland, Ohio. Filed Nov. 14, 1921.

MOTORIGHT

Particular description of goods.—Shock Absorbers and Radiator Shutters.
Claims use since Sept. 1, 1921.

Ser. No. 155,415. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NAAMLOOZE VENNOOTSCHAP TOT EXPLOITATIE VAN CACAO-EN CHOCOLAADFABRIEKEN MAATSCHAPPIJ A. DRIESSEN, Rotterdam, Netherlands. Filed Nov. 15, 1921.



No claim to words "Pure," "Soluble," "Cocoa," "Cacao," or "Rotterdam" apart from mark shown nor to pictorial representation of a container.
Particular description of goods.—Chocolate, Cocoa, and Cacao.
Claims use since 1906.

Ser. No. 155,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IKE K. FRIEDMAN, Fort Worth, Tex. Filed Nov. 19, 1921.

BREKFAST

Particular description of goods.—Oranges in Their Natural State and Preserved Oranges.
Claims use since Oct. 15, 1921.

Ser. No. 155,673. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ESMOND MILLS, New York, N. Y. Filed Nov. 21, 1921.

ESMOND

Particular description of goods.—Blankets, Blanket Fabrics in the Piece, Cotton Piece Goods, Ribbons in the Piece; Robes in the Nature of Auto Rugs, Steamer Rugs or the Like; Rugs, Comfortables, and Mattress Protectors.
Claims use since 1907.

Ser. No. 155,682. (CLASS 39. CLOTHING.) THE GOVERNFORM CORPORATION, New York, N. Y. Filed Nov. 21, 1921.

GOVERNFORM

Particular description of goods.—Belts, Belting, and Elastic, All These Goods Being Fastening, Retaining, Adjusting, and Supporting Devices Prepared for Use in the Construction of Wearing Apparel, Garters, and Neckties.
Claims use since Nov. 14, 1921.

Ser. No. 155,957. (CLASS 39. CLOTHING.) A. B. FRANK COMPANY, San Antonio, Tex. Filed Nov. 26, 1921.

ALAMO

Particular description of goods.—Outer Clothing for Men and Boys, Consisting of Coats, Vests, and Pants, Overalls, Work Pants, and Brush Coats.
Claims use since 1911.

Ser. No. 155,971. (CLASS 39. CLOTHING.) THE JOSEPH LOEB COMPANY, Cincinnati, Ohio. Filed Nov. 26, 1921.

Josetté

Particular description of goods.—Women's, Misses', and Children's Hats.
Claims use since Mar. 1, 1920.

Ser. No. 156,019. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PITTSBURGH-FLORIDA FRUIT GROWERS ASSOC., Avon Park, Fla. Filed Nov. 28, 1921.

FLORIDAINTY



No claim to pictorial representation of fruit apart from the mark shown.
Particular description of goods.—Citrus Fruits in Their Natural State.
Claims use since Nov. 10, 1921.

Ser. No. 156,153. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DUNLOP TIRE AND RUBBER CORP. OF AMERICA, Buffalo, N. Y. Filed Dec. 1, 1921.



Applicant disclaims illustration of golf bag and golf sticks apart from mark shown.

Particular description of goods.—Golf Balls.

Claims use since July 1, 1916.

Ser. No. 156,326. (CLASS 39. CLOTHING.) GRACELINE KNITTING COMPANY, Linfield, Pa. Filed Dec. 6, 1921.

Graceline

Particular description of goods.—Ladies' Knitted Underwear.

Claims use since January, 1920.

Ser. No. 156,347. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ADA IMPORTING CO., INC., Niagara Falls, N. Y. Filed Dec. 7, 1921.

ADA

Particular description of goods.—Olive Oil and Alimentary Paste.

Claims use since on or about Jan. 1, 1917.

Ser. No. 156,399. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. P. MAGGIONI & CO., Savannah, Ga. Filed Dec. 7, 1921.

SAMBO

Particular description of goods.—Oysters in Their Natural State and Canned.

Claims use since Nov. 17, 1921.

Ser. No. 156,517. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALVATORA BASSO, Chicago, Ill. Filed Dec. 10, 1921.

Dr. S Basso

The mark as shown is a facsimile of the signature of the applicant herein named.

Particular description of goods.—Hair Tonic.

Claims use since about June 1, 1921.

Ser. No. 156,538. (CLASS 39. CLOTHING.) MANDEL BROTHERS, Chicago, Ill. Filed Dec. 10, 1921.

Suzanne

Mandel Brothers

REG. U.S. PAT. OFF.

No claim is made to the words "Dresses," "Aprons," and "Reg. U. S. Patent Office" apart from the mark.

Particular description of goods.—Dresses and Aprons.

Claims use since Dec. 8, 1921.

Ser. No. 156,557. (CLASS 39. CLOTHING.) VANITY BRASSIERE COMPANY INC., New York, N. Y. Filed Dec. 10, 1921.

Vanity

Quality Bandeaux & Brassieres

"EVERY WOMAN NEEDS A LITTLE VANITY"

No claim to "Quality Bandeaux & Brassieres" apart from the mark shown.

Particular description of goods.—Bandeaux and Brassières.

Claims use since June 30, 1919.

Ser. No. 156,681. (CLASS 38. PRINTS AND PUBLICATIONS.) CHESTER I. CAMPBELL, Boston, Mass. Filed Dec. 14, 1921.

HOME BEAUTIFUL EXPOSITION

Trade-mark "Home Beautiful."

Particular description of goods.—Magazine Published Monthly.

Claims use since Oct. 7, 1920.

Ser. No. 156,714. (CLASS 39. CLOTHING.) ROSENBERG BROS. & CO., Rochester, N. Y. Filed Dec. 14, 1921.

TAILORED AT FASHION PARK

The words "Tailored At" are disclaimed apart from mark shown.

Particular description of goods.—Men's Coats, Vests, and Pants.

Claims use since on or about Jan. 1, 1920.

Ser. No. 156,752. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LILLIAN GLEASON RYAN, New York, N. Y. Filed Dec. 15, 1921.

Jane Dudley

The trade-mark is the name of a fictitious individual written in the handwriting of the applicant, as shown in the drawing.

Particular description of goods.—Cold Cream.

Claims use since November, 1921.

Ser. No. 156,773. (CLASS 39. CLOTHING.) BES-BEN SHOP, Chicago, Ill. Filed Dec. 16, 1921.

Bes-Ben

Particular description of goods.—Women's Hats and Furs.

Claims use since May 1, 1919.

Ser. No. 157,000. (CLASS 39. CLOTHING.) WILLIAM F. MORAN, Philadelphia, Pa. Filed Dec. 21, 1921.



No claim made to words "Brand" and "Clothing" apart from mark shown.

Particular description of goods.—Men's Clothing Consisting of Suits, Coats, and Topcoats or Overcoats.

Claims use since on or about Jan. 1, 1918.

Ser. No. 157,039. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAWER-GULDEN-ANNIS, INC., Brooklyn, N. Y. Filed Dec. 22, 1921.

GRANDEE

Trade-mark "Grandee."

Particular description of goods.—Food Products—Viz, Olives, Olive Oil, Stuffed Olives, Olive Butter, Minced Olives, Peanut Butter, Prepared Cherries, Minced and Crushed Cherries, and Capers.

Claims use since July 1, 1907.

Ser. No. 157,138. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ARTHUR B. CHRISTOPHER, doing business as The Tel-Auto-Spark Company, St. Louis, Mo. Filed Dec. 27, 1921.

TEL-AUTO-SPARK

Particular description of goods.—Electrical Circuit Testers.

Claims use since Jan. 1, 1921.

Ser. No. 157,215. (CLASS 37. PAPER AND STATIONERY.) DUNN-PEN COMPANY, INC., New York, N. Y. Filed Dec. 28, 1921.

TANK

Particular description of goods.—Fountain Pens.

Claims use since July, 1921.

Ser. No. 157,422. (CLASS 39. CLOTHING.) W. O. HORN & BROTHER, INC., New York, N. Y. Filed Jan. 3, 1922.

"Reviva"

Particular description of goods.—Cravats.
Claims use since October, 1921.

Ser. No. 157,447. (CLASS 39. CLOTHING.) H. M. SAWYER & SON, East Cambridge, Mass. Filed Jan. 3, 1922.

Snugger

Particular description of goods.—Knitted Coats, Jackets, and Vests for Men, Women, and Children.
Claims use since Dec. 1, 1921.

Ser. No. 157,506. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass. Filed Jan. 4, 1922. Under ten-year proviso.

CASCO

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Sept. 1, 1890.

Ser. No. 157,568. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN C. HAARTZ, Boston, Mass. Filed Jan. 6, 1922.

ALBAMONT

Particular description of goods.—Guernsey Cows.
Claims use since 1916.

Ser. No. 157,790. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ANTITARTAR CHEMICAL COMPANY, Denver, Colo. Filed Jan. 12, 1922.

Saves Teeth
Venta-Pyrine
Makes Health

All words appearing on drawing with exception of words "Venta-Pyrine" are hereby disclaimed.
Particular description of goods.—Dentifrices and Gum and Tooth Remedies.
Claims use since Apr. 4, 1917.

Ser. No. 157,882. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BORDEAUX & NEW YORK TRADING CO., doing business as Etablissements Dorsay, New York, N. Y. Filed Jan. 13, 1922.

ROSE ANGELIQUE BRAND

The word "Brand" is disclaimed apart from mark on drawing.
Particular description of goods.—Sardines.
Claims use since 1917.

Ser. No. 157,969. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRIANGLE MANUFACTURING CO., Cedar Rapids, Iowa. Filed Jan. 14, 1922.



Particular description of goods.—Egg-Preserving Compounds.
Claims use since Jan. 5, 1922.

Ser. No. 158,005. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PURELINE COMPANY, INC., New York, N. Y. Filed Jan. 16, 1922.

PURELINE

PURELINE

Particular description of goods.—Petroleum Jelly (White, White Plain, Yellow, Yellow Plain, Carbolated, Camphorated, Borated, Mentholated, Perfumed, and Capsicum), Champhor Ice, Camphorated Oil, American White Mineral Oil, Russian Mineral Oil, Cold Cream, Quinine Pomade, and Red-Rose Pomade.
Claims use since Sept. 23, 1921.

Ser. No. 158,031. (CLASS 39. CLOTHING.) MORRIS AUERBACH, doing business as the Auerbach Bath Robe Co., New York, N. Y. Filed Jan. 17, 1922.

AUERBACH

Particular description of goods.—Bath Robes, Pullman and Beach Robes, and House Robes.
Claims use since Jan. 3, 1922.

Ser. No. 158,054. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JACOB S. NEIDICH, doing business as Neidich Storage Battery Co., Yonkers, N. Y. Filed Jan. 17, 1922.

Neidich

Particular description of goods.—Storage Batteries.
Claims use since April, 1921.

Ser. No. 158,146. (CLASS 39. CLOTHING.) E. ROSENFELD & COMPANY, Baltimore, Md. Filed Jan. 19, 1922.

SLEEPCOAT

Particular description of goods.—Nightrobes and Sleeping Garments.
Claims use since about May 1, 1921.

Ser. No. 158,200. (CLASS 39. CLOTHING.) THOMAS TEXTILE COMPANY, New York, N. Y., assignor to Thomas J. Swartz. Filed Jan. 20, 1922.

Sanitex

Particular description of goods.—Babies' Diapers.
Claims use since about Aug. 8, 1921.

Ser. No. 158,231. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JENNIE C. GUSTAFSON, Seattle, Wash. Filed Jan. 21, 1922.

BLACKFOOT

Particular description of goods.—Liniment for the Treatment of Rheumatism.
Claims use since May 15, 1921.

Ser. No. 158,251. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PICON & CIE., Marseille, France. Filed Jan. 21, 1922.

G. PICON

AMER PICON



The signature "G. Picon" appearing on the drawing is that of Gaetan Picon, the founder of the house of Picon & Cie.
Particular description of goods.—Medicinal Bitter Wine.
Claims use since 1876.

Ser. No. 158,312. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARVIN HERNDON, Washington, D. C. Filed Jan. 23, 1922.

INDIGESTINE

Particular description of goods.—Remedy for Indigestion and Dyspepsia.
Claims use since 1902.

Ser. No. 158,339. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHARLES E. SCHMIDT, trading as Coulter Mfg. Co., Philadelphia, Pa. Filed Jan. 23, 1922.

COULTER

SENIOR

Particular description of goods.—Shoe Holders for Holding Shoes While Cleaning and Polishing Same.
Claims use since April, 1902.

Ser. No. 158,340. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHARLES E. SCHMIDT, trading as Coulter Mfg. Co., Philadelphia, Pa. Filed Jan. 23, 1922.

Coulter

Junior

Particular description of goods.—Shoe Holders for Holding Shoes While Cleaning and Polishing Same.
Claims use since April, 1902

Ser. No. 158,413. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BLAKEY'S BOOT PROTECTORS, LIMITED, Leeds, England. Filed Jan. 25, 1922.

SPARKLING WINE

Particular description of goods.—Boot Polish.
Claims use since Oct. 14, 1921.

Ser. No. 158,414. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BLAKEY'S BOOT PROTECTORS, LIMITED, Leeds, England. Filed Jan. 25, 1922.



Particular description of goods.—Boot Polish.
Claims use since Oct. 14, 1921.

Ser. No. 158,553. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.

B

Particular description of goods.—Spinning Frames.
Claims use since 1892.

Ser. No. 158,554. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.

5 B

Particular description of goods.—Combination Doubling and Twisting Frames.
Claims use since 1902.

Ser. No. 158,555. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.

E

Particular description of goods.—Doubling Frames.
Claims use since 1892.

Ser. No. 158,557. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.

K

Particular description of goods.—Silk-Reeling Frames.
Claims use since 1892.

Ser. No. 158,628. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MOLINE PLOW COMPANY, Moline, Ill. Filed Jan. 30, 1922.

HERCULES

Trade-mark consists of word "Hercules."
Particular description of goods.—Agricultural Machinery, and More Specifically Plows, Both Walking and Riding, and Cultivators, Including Cane Cultivators.
Claims use on plows since about 1913 and on cultivators since about 1916.

Ser. No. 158,629. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MERROW MACHINE COMPANY, Hartford, Conn. Filed Jan. 30, 1922.

47

Particular description of goods.—Loopers for Overseaming and Overedging Sewing Machines.
Claims use since 1905.

Ser. No. 158,685. (CLASS 17. TOBACCO PRODUCTS.) LEONCIO MOSQUERA, doing business as Wall Street Tobacco Company, New York, N. Y. Filed Jan. 31, 1922.



No claim being made to the word "Cigarettes" apart from mark shown.
Particular description of goods.—Cigarettes.
Claims use since Jan. 18, 1922.

Ser. No. 158,710. (CLASS 38. PRINTS AND PUBLICATIONS.) JOHN E. HESS, Clearfield, Pa. Filed Feb. 1, 1922.

MERCHANTS' MAGAZINE

Particular description of goods.—Periodical Magazine Published Monthly.
Claims use since Jan. 1, 1922.

Ser. No. 158,720. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EUGENE H. LESLIE, doing business as Motors Efficiency Co., Ann Arbor, Mich. Filed Feb. 1, 1922.

ZIP

Particular description of goods.—Chemical Preparation Used for the Removal of the Carbon and the Materials Which Bind the Carbon Particles Together in Internal-Combustion-Engine Cylinders.
Claims use since Jan. 18, 1922.

Ser. No. 158,721. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SYSTEM MACHINE WORKS, Stockton, Calif. Filed Feb. 1, 1922.

SYSTEM

Particular description of goods.—Circulating Pumps.
Claims use since July 1, 1921.

Ser. No. 158,777. (CLASS 2. RECEPTACLES.) THE INFLATOR CO., Philadelphia, Pa. Filed Feb. 2, 1922.

GIM

GIM ICK

ICK

Particular description of goods.—Tire-Inflating Devices Consisting of Valve Receptacles Containing Fluid Under Pressure for Inflating Pneumatic Tires.
Claims use since Nov. 4, 1921.

Ser. No. 158,857. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLINTON CHEMICAL COMPANY, Irvington, N. J. Filed Feb. 4, 1922.



We only apply for registration of the design and the words "Canned Lighting" and "Clinton Chemical Company" and hereby expressly disclaim any intention or desire to include in or to protect by, such registration the rest of the wording or language which appears in drawing.

Particular description of goods.—Gasoline Intensifier.
Claims use since Oct. 1, 1921.

Ser. No. 158,882. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) LAWRENCE C. MAY, doing business as Lawrence C. May Co., New York, N. Y. Filed Feb. 4, 1922.

MAY FLOWER

Particular description of goods.—Finger Rings.
Claims use since about Jan. 15, 1922.

Ser. No. 158,951. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) RACINE RUBBER COMPANY, Racine, Wis. Filed Feb. 6, 1922.

RACINE TRUSTY

Particular description of goods.—Rubber or Rubber and Fabric Tires for Vehicles.
Claims use since on or about Jan. 3, 1922.

Ser. No. 158,964. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HENRY S. WAMPOLE COMPANY, Baltimore, Md. Filed Feb. 6, 1922.

FORMETHOL

Particular description of goods.—Antiseptic Solution.
Claims use since July 1, 1921.

Ser. No. 158,999. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH STANISLAWSKI, Hammond, Ind. Filed Feb. 7, 1922.

BOJAR



Particular description of goods.—Healing Oil for Rheumatism, Swelling, Carbuncles, Pimples, Ringworms, Burns, Frozen Limbs, Boils, and Colic.
Claims use since June 10, 1921.

Ser. No. 159,138. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BINNEY & SMITH COMPANY, East Orange, N. J., and New York, N. Y. Filed Feb. 10, 1922.

"CLAYOLA"

Particular description of goods.—Modeling Clay.
Claims use since Dec. 1, 1921.

Ser. No. 159,201. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LOUISIANA M. DAVIS, Glencoe, Ill. Filed Feb. 11, 1922.

LUZIE LOVEM

Particular description of goods.—Dolls and Toy Figures.
Claims use since about Nov. 21, 1920.

Ser. No. 159,211. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Feb. 11, 1922.

Oxyl-Iodide

No exclusive use to word "Iodide" apart from the association shown. Trade-Mark "Oxyl-Iodide."

Particular description of goods.—Medicinal Preparation for Use in the Treatment of Rheumatism and Allied Conditions.
Claims use since Dec. 10, 1920.

Ser. No. 159,250. (CLASS 32. FURNITURE AND UPHOLSTERY.) DURABILT STEEL LOCKER CO., Aurora, Ill. Filed Feb. 13, 1922.



Particular description of goods.—Steel Lockers Wardrobe Cabinets, Filing Cabinets, and Steel Shelving.
Claims use since June 20, 1921.

Ser. No. 159,270. (CLASS 17. TOBACCO PRODUCTS.) ROBIN LANDMAN, Milwaukee, Wis. Filed Feb. 13, 1922.

Royal Juliet

Particular description of goods.—Cigars.
Claims use since Jan. 25, 1922.

Ser. No. 159,473. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MAPPIN & WEBB, LIMITED, Sheffield and London, England. Filed Feb. 17, 1922.



Particular description of goods.—Tableware Made from Precious Metal or Plated with Precious Metal.
Claims use since Jan. 26, 1877.

Ser. No. 159,527. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PLAX COMPANY, New York, N. Y. Filed Feb. 18, 1922.

PLAX

Particular description of goods.—Laxative Tablets.
Claims use since Feb. 11, 1922.

Ser. No. 159,547. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER ABELL, El Campo, Tex. Filed Feb. 20, 1922.



The portrait of boy is that of Geo. P. Willis, Jr.

Particular description of goods.—Medicinal Preparation Used in Treatment of Hemorrhagic Septicæmia or Loin Disease in Cattle.
Claims use since Jan. 17, 1922.

Ser. No. 159,567. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARCELLUS DIEDERICH, doing business as Standard Products Company, Lorain, Ohio. Filed Feb. 20, 1922.

FLY-KURE

Particular description of goods.—Insecticides.
Claims use since July 1, 1921.

Ser. No. 159,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JENNINGS & COMPANY, INC., Boston, Mass. Filed Feb. 20, 1922.

QUINOID

Particular description of goods.—Dyestuffs.
Claims use since Feb. 8, 1922.

Ser. No. 159,638. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VIENNA MEDICAL COMPANY, Detroit, Mich. Filed Feb. 20, 1922.



Particular description of goods.—Cough Lozenges, Cough Sirup, and Compound for Treatment of Coughs.
Claims use since Jan. 24, 1922.

Ser. No. 159,642. (CLASS 38. PRINTS AND PUBLICATIONS.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Feb. 20, 1922.

Contact

Particular description of goods.—Monthly Magazines.
Claims use since Jan. 1, 1918.

Ser. No. 159,655. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN WILLIAM HORNSEY, Jamaica Plain, Boston, Mass. Filed Feb. 21, 1922.

IGROW

Particular description of goods.—Hair Restorers.
Claims use since Dec. 2, 1921.

Ser. No. 159,686. (CLASS 38. PRINTS AND PUBLICATIONS.) BOOT AND SHOE RECORDER PUBLISHING COMPANY, Boston, Mass. Filed Feb. 23, 1922.

INTERNATIONAL RECORDER

Particular description of goods.—Shoe and Leather Trade Monthly Periodical.
Claims use since January, 1922.

Ser. No. 159,710. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LANGLEY & MICHAELS CO., San Francisco, Calif. Filed Feb. 23, 1922. Under ten-year proviso.

ALK-ASEPTINE

Particular description of goods.—Antiseptic and Germicidal Solution.
Claims use since Jan. 1, 1895.

Ser. No. 159,786. (CLASS 38. PRINTS AND PUBLICATIONS.) BOOT AND SHOE RECORDER PUBLISHING COMPANY, Boston, Mass. Filed Feb. 25, 1922.

BOOT *and* SHOE RECORDER

Particular description of goods.—Shoe and Leather Trade Weekly Periodical.
Claims use since 1883.

Ser. No. 160,175. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Filed Mar. 3, 1922.

PONTIFICAL

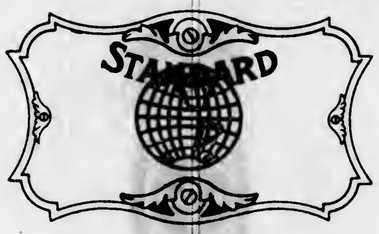
Particular description of goods.—Incense.
Claims use since about Jan. 1, 1913.

Ser. No. 160,249. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 6, 1922.

MERCUROSAL

Particular description of goods.—Medicine for Venereal Diseases and Catarrh of the Mucous Membrane.
Claims use since July 25, 1921.

Ser. No. 160,369. (CLASS 31. FILTERS AND REFRIGERATORS.) STANDARD REFRIGERATOR COMPANY, Philadelphia, Pa. Filed Mar. 8, 1922.



The word "Standard" is disclaimed apart from the mark shown.
Particular description of goods.—Refrigerators.
Claims use since about Jan. 1, 1901.

Ser. No. 160,666. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERBICIDE CHEMICAL LABORATORIES, Los Angeles, Calif. Filed Mar. 14, 1922.



Particular description of goods.—Spray for Trees, Plants, Shrubs, and the Like.
Claims use since Jan. 1, 1922.

Ser. No. 160,717. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES T. NAUMANN, doing business as Broadway Perfume Company, New York, N. Y. Filed Mar. 15, 1922.

Broadway

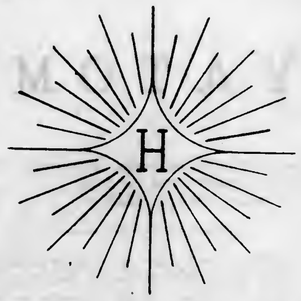
Particular description of goods.—Toilet Water Scalp Rub, Hair Tonic, Eau De Quinine, and Bay Rum.
Claims use since Feb. 15, 1922.

Ser. No. 160,723. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALTRATES, LIMITED, London, England. Filed Mar. 15, 1922.

REUDEL

Particular description of goods.—Bath Salts.
Claims use since May, 1915.

Ser. No. 160,762. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MATHILDA G. HORNUNG, West New York, N. J. Filed Mar. 16, 1922.



Particular description of goods.—Salve for the Treatment of Itching Diseases, Sores, Burns, Cuts, Bruises, All Kinds of Skin Diseases, Sunburn, Chafe, Chapped Hands, Poison Ivy, and Sore Burning Feet.
Claims use since at least Jan. 1, 1919.

Ser. No. 160,784. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALLEN AND CLAY, Detroit, Mich. Filed Mar. 17, 1922.

'KODAS'

Particular description of goods.—External Medicines for Use in the Treatment of Rheumatism, Neuralgia, Headache, and Stiff Joints.
Claims use since Feb. 23, 1922.

Ser. No. 160,811. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. D. HILL COMPANY, Los Angeles, Calif. Filed Mar. 17, 1922.



Trade-mark consists of letter "H" in red color. No claim made to words "R. D. Hill Company Manufacturers" apart from mark shown.
Particular description of goods.—Medicated Shampoo Liquid Compositions, Balsams, and Ointments for Eczema.
Claims use since Feb. 27, 1922.

Ser. No. 160,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDGAR SAMSON, doing business as Dyatome Laboratories, New York, N. Y. Filed Mar. 17, 1922.

DYATOME

Particular description of goods.—Preparation for Coloring and Tinting Fabrics and the Like.
Claims use since Mar. 15, 1922.

Ser. No. 160,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE LEE KITCHEN, doing business as Hemolene Chemical Co., St. Louis, Mo. Filed Mar. 18, 1922.

HEMOLENE

Particular description of goods.—Tooth Paste and Mouth Washes.
Claims use since on or about Dec. 15, 1921.

Ser. No. 160,891. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE MANHATTAN RUBBER MFG. CO., Passaic, N. J. Filed Mar. 18, 1922.

BROWNDEL

Particular description of goods.—Brake Lining Made Partly of Asbestos and Partly of Rubber.
Claims use since Mar. 1, 1920.

Ser. No. 160,921. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BAYER COMPANY, INC., New York, N. Y. Filed Mar. 20, 1922.

ASPIRINA

Particular description of goods.—Preparation or Medicine for Pains and Aches of Nervous or Organic Origin and for Rheumatic, Neuralgic, and Gouty Conditions, and Antirheumatic, Analgesic, and Antipyretic.
Claims use since about Mar. 17, 1915.

Ser. No. 160,922. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BAYER COMPANY, INC., New York, N. Y. Filed Mar. 20, 1922.



Particular description of goods.—Preparations or Medicines for Pains and Aches of Nervous or Organic Origin and for Rheumatic, Neuralgic, and Gouty Conditions; Absorbefacients, Alteratives; Analgesics, Local and Internal; Anodynes; Antineuralgics, Local and Internal; Antirheumatics, Local and Internal; Antiarthritics, Antipyretics; Antiseptics, Local and Internal; Antigonorrheics, Antileprics, Antispasmodics, Antituberculous, Antimalarial, Antidiarrheal, Antisyphilitics; Astringents, Local and Internal; Local Anesthetics, Cicatrisants, Diuretics, Digestants, Diaphoretics, Expectorants, Hematinics, Hemostatics, Hypnotics, Purgatives, Sedatives, and General Tonics.
Claims use since Jan. 2, 1895.

Ser. No. 160,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICTL PREPARATIONS.) THE BAYER COMPANY, INC., New York, N. Y. Filed Mar. 20, 1922.

BAYER

Particular description of goods.—Preparations or Medicines for Pains and Aches of Nervous or Organic Origin and for Rheumatic, Neuralgic, and Gouty Conditions; Absorbefacients, Alteratives; Analgesics, Local and Internal; Anodynes; Antineuralgics, Local and Internal; Antirheumatics, Local and Internal; Antiarthritics, Antipyretics; Antiseptics, Local and Internal; Antigonorrheics, Antileprics, Antispasmodics, Antituberculous, Antimalarial, Antidiarrheal, Antisyphilitics; Astringents, Local and Internal; Local Anesthetics, Cicatrisants, Diuretics, Digestants, Diaphoretics, Expectorants, Hematinics, Hemostatics, Hypnotics, Purgatives, Sedatives, and General Tonics.
Claims use since Jan. 2, 1895.

Ser. No. 160,944. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOLIE, INC., New York, N. Y. Filed Mar. 20, 1922.



Particular description of goods.—Face Powders, Face Creams, Talcum Powders, Sachet Powders, Rouges, Lip Sticks, Eyebrow Pencils, Perfumes, Toilet Waters, Hair Tonics, Brilliantine, Dentifrices, Tooth Powders, Nail Polishes, and Deodorising Preparations.
Claims use since Dec. 3, 1920.

Ser. No. 160,945. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOLIE, INC., New York, N. Y. Filed Mar. 20, 1922.



Particular description of goods.—Face Powders, Face Creams, Talcum Powders, Sachet Powders, Rouges, Lip Sticks, Eyebrow Pencils, Perfumes, Toilet Waters, Hair Tonics, Brilliantine, Dentifrices, Tooth Powders, Nail Polishes, and Deodorising Preparations.
Claims use since Oct. 23, 1920.

Ser. No. 160,960. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL PYRO-ZENE COMPANY, Atlanta, Ga. Filed Mar. 20, 1922.

PYRO-ZENE

Particular description of goods.—Treatment of Pyorrhea for the Correction of Soft, Bleeding, Spongy, Receding Gums, and for the Promotion and Maintenance of Tooth, Gum, and Mouth Health.
Claims use since June, 1921.

Ser. No. 160,964. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE OWL DRUG COMPANY, San Francisco, Calif. Filed Mar. 20, 1922.

RUBILYPTUS

Particular description of goods.—Alkaline Antiseptic Solution for Use in Oral and Nasal Passages.
Claims use since June 1, 1914.

Ser. No. 160,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE OWL DRUG COMPANY, San Francisco, Calif. Filed Mar. 20, 1922.

BOROTANS

Particular description of goods.—Antiseptic Astringent Vaginal Suppositories.
Claims use since about July 15, 1915.

Ser. No. 160,969. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT L. PLEASANT, doing business as Nakoma Laboratories, New York, N. Y. Filed Mar. 20, 1922.

NAKOMA

Particular description of goods.—Ointment for Treatment of Eczema and Ulcers.
Claims use since Nov. 1, 1920.

Ser. No. 161,195. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) REBECCA KRAVITS, Vineland, N. J. Filed Mar. 24, 1922.



The words "Washing Liquid" and "The New Method of Washing Clothes Without Rubbing" is disclaimed apart from mark shown.

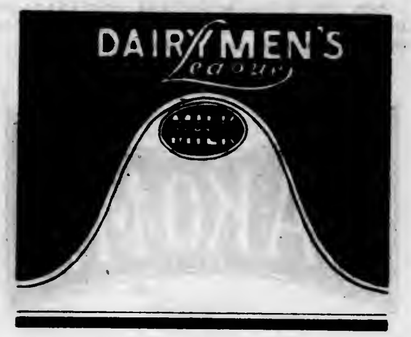
Particular description of goods.—Washing Fluid.
Claims use since Mar. 1, 1922.

Ser. No. 161,199. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE PUTT-PUTT CO., Chicago, Ill. Filed Mar. 24, 1922.

PUTT-PUTT

Particular description of goods.—Indoor Golf Game.
Claims use since Feb. 14, 1922.

Ser. No. 161,529. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y. Filed Mar. 31, 1922.



Particular description of goods.—Butter, Condensed Milk, Evaporated Milk, and Ice Cream.
Claims use since Apr. 15, 1921.

Ser. No. 161,640. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NORTH EAST ELECTRIC COMPANY, Rochester, N. Y. Filed Apr. 1, 1922.



Particular description of goods.—Tachometers and Odometers.
Claims use since June 2, 1921.

Ser. No. 161,688. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) O. E. LEHMANN & Co., New York, N. Y. Filed Apr. 3, 1922.

JUSTRITE

Particular description of goods.—Ring Springs.
Claims use since Jan. 5, 1916.

Ser. No. 161,723. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. ERLANGER, BLUMGART & Co. INC., New York, N. Y. Filed Apr. 4, 1922.



Particular description of goods.—Cotton Textiles in the Piece.
Claims use since Mar. 24, 1922.

Ser. No. 161,724. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. ERLANGER, BLUMGART & Co. INC., New York, N. Y. Filed Apr. 4, 1922.



Particular description of goods.—Cotton Textiles in the Piece.
Claims use since Mar. 24, 1922.

Ser. No. 161,913. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARTHA ST. CLAIR WINGERT, Whittier, Calif. Filed Apr. 7, 1922.

PAXIE ANN

Particular description of goods.—Dolls.
Claims use since Mar. 25, 1922.

Ser. No. 162,071. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) STIX, BAER & FULLER DRY GOODS CO., St. Louis, Mo. Filed Apr. 10, 1922.

Empress of India

Particular description of goods.—Necklaces.
Claims use since June, 1919.

Ser. No. 162,108. (CLASS 38. PRINTS AND PUBLICATIONS.) SAMUEL GOTTLIEB, New York, N. Y. Filed Apr. 11, 1922.

Luxname

Particular description of goods.—Push Cards.
Claims use since about Mar. 1, 1922.

Ser. No. 162,273. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEBOYGAN COASTER & WAGON WORKS, Sheboygan, Wis. Filed Apr. 13, 1922.



Portions of trade-mark are shown in black, red, and gold, as indicated by shade lines. No claim is made for the words "Sheboygan, Wis.," apart from mark shown.

Particular description of goods.—Children's Coaster Wagons.
Claims use since Feb. 11, 1922.

Ser. No. 162,336. (CLASS 38. PRINTS AND PUBLICATIONS.) GLASS CONTAINER ASSOCIATION OF AMERICA, New York, N. Y. Filed Apr. 15, 1922.

The Glass Container

Particular description of goods.—Monthly Publication.
Claims use since Nov. 1, 1921.

Ser. No. 162,381. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE COLLIERVILLE BAT AND DIMENSION STOCK COMPANY, Collierville, Tenn. Filed Apr. 17, 1922.



Particular description of goods.—Baseball Bats.
Claims use since February, 1922.

Ser. No. 162,533. (CLASS 12. CONSTRUCTION MATERIALS.) COMMERCIAL LIME COMPANY, Ocala, Fla. Filed Apr. 19, 1922.

PUROCK

Particular description of goods.—Hydrated and Quick Lime.
Claims use since January, 1920.

Ser. No. 162,653. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) UNITED STATES ASBESTOS COMPANY, Lancaster, Pa. Filed Apr. 20, 1922.

ASBESTO-CUSHION

Trade-mark "Asbesto-Cushion."
Particular description of goods.—Fabric, Brake, and Transmission Lining.
Claims use since Feb. 15, 1922.

Ser. No. 162,742. (CLASS 38. PRINTS AND PUBLICATIONS.) JONES & BAKER, New York, N. Y. Filed Apr. 22, 1922.

INVESTOR & TRADER

Particular description of goods.—Publication Published Weekly.
Claims use since Apr. 14, 1919.

Ser. No. 162,882. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LUBBERS & BELL MFG. CO., Clinton, Iowa. Filed Apr. 25, 1922.



Particular description of goods.—Solitaire Game.
Claims use since Sept. 5, 1921.

Ser. No. 162,588. (CLASS 45. BEVERAGES, NONALCOHOLIC.) PORTER BROS., Philadelphia, Pa. Filed Apr. 25, 1922.

Clover Brook

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Apr. 30, 1920.

Ser. No. 162,940. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) GEO. V. MILLAR CO., Scranton, Pa. Filed Apr. 26, 1922.

China Hall

Particular description of goods.—China, Earthenware, Pottery, Stoneware, Porcelain Ware, Crockery, and Terra-Cotta Ware.
Claims use since 1888.

Ser. No. 163,037. (CLASS 17. TOBACCO PRODUCTS.) ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed Apr. 28, 1922.

DURBAR

Particular description of goods.—Cigars, Little Cigars, Cigarettes, and Smoking Tobacco.
Claims use since January, 1915.

Ser. No. 163,038. (CLASS 17. TOBACCO PRODUCTS.) ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed Apr. 28, 1922.

POMP

Particular description of goods.—Cigars, Little Cigars, Cigarettes, and Smoking Tobacco.
Claims use since January, 1915.

Ser. No. 163,263. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed May 3, 1922.

SINCERITY

Particular description of goods.—Writing Paper.
Claims use since Apr. 19, 1922.

Ser. No. 163,264. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed May 3, 1922.

APPROVAL

Particular description of goods.—Writing Paper.
Claims use since Apr. 19, 1922.

Ser. No. 163,265. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed May 3, 1922.

ALLEGIANCE

Particular description of goods.—Writing Paper.
Claims use since Apr. 19, 1922.

Ser. No. 163,292. (CLASS 37. PAPER AND STATIONERY.) SIMPLO FÜLLFEDER-GESELLSCHAFT VOSS, LAUSEN & DZIAMBOR, Hamburg, Germany. Filed May 3, 1922.

MONTBLANC

Particular description of goods.—Fountain Pens.
Claims use since 1913.

Ser. No. 163,469. (CLASS 37. PAPER AND STATIONERY.) A. W. POHLMAN PAPER CO., INC., New York, N. Y. Filed May 6, 1922.

Forefathers

Particular description of goods.—Bond Paper for Writing and Printing Purposes.
Claims use since Mar. 31, 1922.

Ser. No. 163,470. (CLASS 37. PAPER AND STATIONERY.) A. W. POHLMAN PAPER CO. INC., New York, N. Y. Filed May 6, 1922.

Tip Top

Particular description of goods.—Bond Paper for Writing and Printing Purposes.
Claims use since Sept. 23, 1921.

Ser. No. 163,583. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) H. I. JORDAN, Auburn, Me. Filed May 9, 1922.

LAMINO

Particular description of goods.—Golf Clubs.
Claims use since Nov. 1, 1921.

Ser. No. 163,671. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE CINCINNATI HORSE SHOE & IRON CO., Cleves, Ohio. Filed May 11, 1922.

RYD-E-Z

Particular description of goods.—Automobile Springs.
Claims use since April, 1922.

Ser. No. 163,774. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BADGER MANUFACTURING CORPORATION, Milwaukee, Wis. Filed May 13, 1922.

DELUXE

Trade-mark "Deluxe."
Particular description of goods.—Bumpers.
Claims use since about September, 1920.

Ser. No. 163,775. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) BETTES & EBSEN, New York, N. Y. Filed May 13, 1922.

B-E

Particular description of goods.—Brake Lining.
Claims use since October, 1921.

Ser. No. 163,959. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AMERICAN STOVE COMPANY, St. Louis, Mo. Filed May 17, 1922.

Golden Glow

Trade-mark "Golden Glow."
Particular description of goods.—Gas Stoves and Heaters.
Claims use since about May 14, 1918.

Ser. No. 164,259. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) O. B. PIEPER CO., Milwaukee, Wis. Filed May 22, 1922.

BRIGHT SPOT

A BRIGHT SPOT

Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Fruit Beverage Sold as Soft Drinks and Sirups Used in Preparation of the Same.
Claims use since 1905.

Ser. No. 164,269. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) REID, MURDOCH & CO., Chicago, Ill. Filed May 22, 1922.

YACHT CLUB

Particular description of goods.—Root Beer and Ginger Ale.
Claims use since 1913.

Ser. No. 164,290. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) AMBASSADOR TIRE CORPORATION, New York, N. Y. Filed May 23, 1922.

AMBASSADOR

Particular description of goods.—Pneumatic Rubber Vehicle Tires.
Claims use since Feb. 1, 1922.

Ser. No. 164,445. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JOHNS MANVILLE INCORPORATED, New York, N. Y. Filed May 24, 1922.

DURO

Particular description of goods.—Piston and Piston-Rod Packing Made of Textile Fabric and Rubber Cement.
Claims use since Jan. 1, 1913.

Ser. No. 164,525. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GEORGE TSAGARAKIS, New York, N. Y. Filed May 25, 1922.

Vishno

Trade-mark "Vishno."
Particular description of goods.—Nonalcoholic Maltless Beverages Sold as Soft Drinks.
Claims use since Mar. 15, 1922.

Ser. No. 164,681. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill. Filed May 29, 1922.

SUPER

Particular description of goods.—Shot Shells.
Claims use since about Nov. 1, 1921.

Ser. No. 164,949. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PRIMALT PRODUCTS CO., Chicago, Ill. Filed June 3, 1922.



Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups Used in Preparation of the Same.
Claims use since April, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 11, 1922.

156,605. SCISSORS AND SHEARS. THE ACME SHEAR COMPANY, Bridgeport, Conn.
Filed December 13, 1921. Serial No. 156,616. PUBLISHED MARCH 21, 1922.

156,606. CERTAIN NAMED JEWELRY. ABEL BROS. & CO. INC., New York, N. Y.
Filed August 11, 1921. Serial No. 151,649. PUBLISHED MAY 2, 1922.

156,607. ELECTRIC-LIGHTING FIXTURES. GEORGE R. AINSWORTH, New York, N. Y.
Filed June 20, 1921. Serial No. 149,370. PUBLISHED MARCH 14, 1922.

156,608. EDIBLE VEGETABLE COTTONSEED OILS. THE AMERICAN COTTON OIL COMPANY, Union Township, Hudson County, N. J., and New York, N. Y.
Filed June 9, 1921. Serial No. 148,863. PUBLISHED JANUARY 24, 1922.

156,609. ROPE CLAMPS. AMERICAN HOIST & DERRICK CO., St. Paul, Minn.
Filed October 18, 1921. Serial No. 154,256. PUBLISHED MARCH 21, 1922.

156,610. CERTAIN NAMED LAUNDRY APPLIANCES AND MACHINES. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood, Ohio.
Filed November 6, 1920. Serial No. 139,244. PUBLISHED MARCH 14, 1922.

156,611. CERTAIN NAMED APPLIANCES FOR RADIO MECHANISM. THE AMERICAN RADIO SALES AND SERVICE COMPANY, Mansfield, Ohio.
Filed October 8, 1921. Serial No. 153,864. PUBLISHED MAY 2, 1922.

156,612. MACHINERY WHEELS AND GEARS. AMERICAN STEEL FOUNDRIES, Chicago, Ill.
Filed March 1, 1921. Serial No. 144,169. PUBLISHED MARCH 21, 1922.

156,613. IGNITION TIMERS FOR EXPLOSION ENGINES. THE ANDERSON COMPANY, South Bend, Ind.
Filed October 6, 1921. Serial No. 153,794. PUBLISHED MARCH 21, 1922.

156,614. VEGETABLE SLICERS AND CHOPPERS. E. S. ANDERSON COMPANY, Gloversville, N. Y.
Filed January 6, 1922. Serial No. 157,548. PUBLISHED MARCH 21, 1922.

156,615. CERTAIN NAMED RADIO APPARATUS. FRANK A. D. ANDREA, New York, N. Y.
Filed December 19, 1921. Serial No. 156,876. PUBLISHED MARCH 14, 1922.

156,616. HOUSEHOLD WASHBOILERS. ATLAS TINWARE COMPANY, INC., New York, N. Y.
Filed September 9, 1921. Serial No. 152,733. PUBLISHED MARCH 28, 1922.

156,617. TIRE PUMPS AND VALVE GRINDERS. AUTOQUIP MFG. CO., INC., Rochester, N. Y.
Filed February 14, 1921. Serial No. 143,528. PUBLISHED MARCH 21, 1922.

156,618. CANNED FRUIT, CANNED SALMON AND SARDINES. H. J. BAKER & BRO., New York, N. Y.
Filed March 11, 1920. Serial No. 129,531. PUBLISHED DECEMBER 28, 1920.

156,619. FINGER RINGS. MAX BAUMAN, trading as M. Bauman & Company, New York, N. Y.
Filed December 30, 1921. Serial No. 157,297. PUBLISHED MAY 2, 1922.

156,620. CHOCOLATE, COCOA, AND CANDY COMPOSED OF OR CONTAINING CHOCOLATE, AND OTHER CANDIES. BEACON CHOCOLATE COMPANY, Boston, Mass.
Filed November 26, 1918. Serial No. 114,370. PUBLISHED MARCH 28, 1922.

156,621. ELECTRICAL PLUGS, ATTACHMENT PLUGS, AND SWITCH PLUGS. BEAVER MACH. & TOOL CO. INC., Newark, N. J.
Filed February 4, 1922. Serial No. 158,847. PUBLISHED MAY 2, 1922.

156,622. CANDY AND CARAMELS. PAUL F. BEICH COMPANY, Bloomington, Ill.
Filed November 22, 1921. Serial No. 155,735. PUBLISHED MARCH 28, 1922.

156,623. SPARK TIMERS FOR INTERNAL-COMBUSTION ENGINES. BERG BROS. MFG. COMPANY, Chicago, Ill.
Filed August 15, 1921. Serial No. 151,780. PUBLISHED MAY 2, 1922.

156,624. ELECTRIC SPARK ENERGIZERS. BLASDEL SHAPLEIGH, trading as Blasdel Products Co., St. Louis, Mo.
Filed January 23, 1922. Serial No. 158,338. PUBLISHED MAY 2, 1922.

156,625. MALT EXTRACT. BLUE BIRD MALT COMPANY, Baltimore, Md.
Filed November 2, 1920. Serial No. 139,096. PUBLISHED JUNE 21, 1921.

156,626. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York.
Filed January 24, 1922. Serial No. 158,357. PUBLISHED MARCH 28, 1922.

156,627. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York.
Filed January 24, 1922. Serial No. 158,369. PUBLISHED MARCH 28, 1922.

156,628. FINGER RINGS. THE ROCK-LEWIS CO., Buffalo, N. Y.
Filed July 28, 1921. Serial No. 151,031. PUBLISHED MARCH 21, 1922.

156,629. ARTIFICIAL PEARLS MADE FROM FISH SCALES AND NECKLACES MADE FROM SUCH PEARLS. RALPH H. BODMAN, Hyannis, Mass.
Filed October 24, 1921. Serial No. 154,480. PUBLISHED MARCH 14, 1922.

156,630. TELEPHONIC APPARATUS. G. BOISSONNAULT COMPANY, New York, N. Y.
Filed September 19, 1921. Serial No. 153,070. PUBLISHED MARCH 14, 1922.

156,631. TELEPHONIC APPARATUS. G. BOISSONNAULT COMPANY, New York, N. Y.
Filed September 19, 1921. Serial No. 153,071. PUBLISHED MARCH 14, 1922.

156,632. PEARLS, SYNTHETIC PEARLS, NECKLACES, AND CLASPS. FRANCIS M. BOTELHO, trading as Francis M. Botelho Co., Philadelphia, Pa.
Filed November 17, 1921. Serial No. 155,474. PUBLISHED MAY 2, 1922.

156,633. TOMATO SAUCE, CANNED OLIVES, AND COTTON-SEED SALAD OIL. BRAGNO & MUSTARI, Chicago, Ill.
Filed November 8, 1921. Serial No. 155,156. PUBLISHED MARCH 21, 1922.

156,634. MACARONI. BRAGNO & MUSTARI, Chicago, Ill.
Filed November 8, 1921. Serial No. 155,157. PUBLISHED MARCH 28, 1922.

156,635. SPARK PLUGS. BROWN BAG FILLING MACHINE COMPANY, Fitchburg, Mass.
Filed December 16, 1921. Serial No. 156,774. PUBLISHED MARCH 14, 1922.

156,636. PHONOGRAPHS AND PHONOGRAPH RECORDS. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed November 19, 1917. Serial No. 107,458. PUBLISHED APRIL 18, 1922.

156,637. OIL-MILL MACHINERY. BUCKEYE IRON & BRASS WORKS, Dayton, Ohio.
Filed December 23, 1921. Serial No. 157,055. PUBLISHED MARCH 21, 1922.

156,638. OLIVE OIL. C. BUONOCORE & SON, New York, N. Y.
Filed November 4, 1921. Serial No. 155,011. PUBLISHED MARCH 28, 1922.

156,639. CLOTHES-WASHING MACHINE. RODERICK S. BURLINGAME, trading as Burlingame Manufacturing Company, Syracuse, N. Y.
Filed September 28, 1921. Serial No. 153,428. PUBLISHED MAY 2, 1922.

156,640. CERTAIN NAMED DENTAL SUPPLIES AND APPLIANCES AND COCOA BUTTER PREPARED FOR THE USE IN DENTAL PURPOSES. THE L. D. CAULK COMPANY, Milford, Del.
Filed August 6, 1921. Serial No. 151,509. PUBLISHED FEBRUARY 7, 1922.

156,641. CERTAIN MACHINERY FOR BAKERIES. CHAMPION MACHINERY CO., Joliet, Ill.
Filed November 29, 1921. Serial No. 156,049. PUBLISHED MARCH 21, 1922.

156,642. TIMERS FOR INTERNAL-COMBUSTION ENGINES. CHICAGO TIMER FACTORY INCORPORATED, Chicago, Ill.
Filed December 29, 1921. Serial No. 157,257. PUBLISHED MAY 2, 1922.

156,643. TIMERS FOR INTERNAL-COMBUSTION ENGINES. CHICAGO TIMER FACTORY INCORPORATED, Chicago, Ill.
Filed December 29, 1921. Serial No. 157,258. PUBLISHED MARCH 28, 1922.

156,644. LAUNDRY WASHING MACHINES AND WRINGERS. CLARK, CADLE, HARMON CORP., Rochester, N. Y.
Filed September 3, 1920. Serial No. 136,783. PUBLISHED MARCH 14, 1922.

156,645. PISTONS FOR INTERNAL-COMBUSTION ENGINES. CLARK-TURNER PISTON COMPANY, Los Angeles, Calif.
Filed October 24, 1921. Serial No. 154,487. PUBLISHED MARCH 28, 1922.

156,646. ELECTRIC SUCTION SWEEPERS. CLEMENTS MFG. CO., Chicago, Ill.
Filed July 20, 1921. Serial No. 150,657. PUBLISHED MAY 2, 1922.

156,647. AUTOMOBILE TIRES OF RUBBER AND OF RUBBERIZED FABRIC, INNER TUBES FOR TIRES, TIRE LINERS, AND TIRE PATCHES. THE CLIMAX RUBBER CO., Columbus, Ohio.
Filed June 17, 1921. Serial No. 149,268. PUBLISHED FEBRUARY 7, 1922.

156,648. LAUNDRY WASHING MACHINES AND CLOTHES WRINGERS. THE COFFIELD WASHER CO., Dayton, Ohio.
Filed February 17, 1921. Serial No. 143,685. PUBLISHED MARCH 14, 1922.

156,649. HOSIERY, KNITTED AND WOVEN UNDERWEAR, KNITTED SWEATERS, WOVEN OVERSHIRTS. COHEN & ETTENSON, New York, N. Y.
Filed February 26, 1921. Serial No. 144,066. PUBLISHED OCTOBER 4, 1921.

156,650. CONCRETE MIXERS, DIAPHRAGM PUMPS, HOISTS, BACKFILLERS, AND INTERNAL-COMBUSTION AND STEAM ENGINES. CONSTRUCTION MACHINERY COMPANY, Waterloo, Iowa.
Filed November 25, 1921. Serial No. 155,870. PUBLISHED MARCH 21, 1922.

156,651. PIANOS. CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, trading as Hallet & Davis Piano Co., Boston, Mass.
Filed September 10, 1921. Serial No. 152,800. PUBLISHED MAY 2, 1922.

156,652. CERTAIN NAMED ELECTRICAL APPARATUS. J. A. CRABTREE & CO. LTD., Birmingham, England.
Filed December 8, 1921. Serial No. 156,441. PUBLISHED MARCH 14, 1922.

156,653. BAR CONTAINING A FUDGE BODY COVERED FIRST BY MARSHMALLOW AND THEN ICING. CURTISS CANDY CO., Chicago, Ill.
Filed November 17, 1921. Serial No. 155,481. PUBLISHED MARCH 28, 1922.

156,654. SPARK PLUGS. THE DAYTON IGNITION COMPANY, Dayton, Ohio.
Filed September 13, 1920. Serial No. 137,114. PUBLISHED FEBRUARY 22, 1921.

156,655. CHOCOLATE-COATED CANDIES PACKED IN INDIVIDUAL CARTONS. THE DE KLYN CANDY CO., Cleveland, Ohio.
Filed September 17, 1921. Serial No. 153,034. PUBLISHED MARCH 28, 1922.

156,656. LAUNDRY WASHING MACHINES. DETROIT WASHING MACHINE CORPORATION, Detroit, Mich.
Filed October 22, 1921. Serial No. 154,437. PUBLISHED MAY 2, 1922.

156,657. ELECTRIC INSULATING TAPE. DIAMOND HOLFAST RUBBER CO., Atlanta, Ga.
Filed September 19, 1921. Serial No. 153,081. PUBLISHED MARCH 14, 1922.

156,658. TAILORED SUITS. L. R. DOLBY CO., Spokane, Wash.
Filed July 4, 1921. Serial No. 149,994. PUBLISHED FEBRUARY 28, 1922.

156,659. PUMPS AND ROTATING SCREENS FOR REMOVING SOLIDS FROM INDUSTRIAL AND MUNICIPAL WASTE. THE DORR COMPANY, New York, N. Y.
Filed December 28, 1921. Serial No. 157,217. PUBLISHED MARCH 21, 1922.

156,660. DRIED EGG, MERINGUE POWDER, AND PIE FILLING. ECONOMY FOOD PRODUCTS COMPANY, Cambridge, Mass.
Filed February 9, 1920. Serial No. 128,146. PUBLISHED MARCH 21, 1922.

156,661. PHONOGRAPHS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.
Filed January 8, 1921. Serial No. 141,970. PUBLISHED MARCH 21, 1922.

156,662. PHONOGRAPHS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.
Filed January 5, 1921. Serial No. 141,858. PUBLISHED MARCH 21, 1922.

156,663. WALL AND CEILING PLATES AND CONNECTIONS FOR ELECTRIC-LIGHTING FIXTURES AND OTHER ELECTRICAL APPLIANCES. ELECTRIC OUTLET COMPANY, INC., New York, N. Y.
Filed November 18, 1921. Serial No. 155,551. PUBLISHED MAY 2, 1922.

156,664. DISCONNECTING SWITCHES, LIGHTNING ARRESTERS, AND CHOKE COILS. ELECTRICAL ENGINEERS EQUIPMENT COMPANY, Chicago, Ill.
Filed January 24, 1921. Serial No. 142,700. PUBLISHED MAY 2, 1922.

156,665. ICE CREAM. ELITE CONFECTIONERY CO., El Paso, Tex., assignor to Elite Chocolate Coated Baseball Company, El Paso, Tex., a Corporation of Texas.
Filed November 3, 1921. Serial No. 154,970. PUBLISHED MARCH 14, 1922.

156,666. PHONOGRAPH RECORDS. EMERSON PHONOGRAPH COMPANY, INC., New York, N. Y.
Filed May 12, 1920. Serial No. 132,346. PUBLISHED JUNE 22, 1920.

156,667. LIGHTING ARRESTERS. EDWARD A. EVERETT, trading as Railroad Accessories Corporation, Long Island City, N. Y.
Filed September 30, 1921. Serial No. 153,547. PUBLISHED MAY 2, 1922.

156,668. STEEL AND STENCIL PATTERN OUTFITS AND CERTAIN GAUGES AND INSTRUMENTS OF PRECISION. THE FAIRBANKS CO., New York, N. Y.
Filed January 14, 1921. Serial No. 142,252. PUBLISHED MARCH 21, 1922.

156,669. CERTAIN NAMED CIRCUIT-CONTROLLING AND PRESSURE-CONTROLLING DEVICES AND MERCURY TUBES. THE FEDERAL GAUGE COMPANY, Chicago, Ill.
Filed January 25, 1922. Serial No. 158,421. PUBLISHED APRIL 11, 1922.

156,670. INTERNALLY-SALTED NUTS. JOHN FINN, Jr., Mill Valley, Calif.
Filed September 6, 1921. Serial No. 152,620. PUBLISHED JANUARY 24, 1922.

156,671. CERTAIN NAMED ELECTRICAL APPARATUS. JOHN FIRTH & CO. INC., New York, N. Y.
Filed January 5, 1922. Serial No. 157,518. PUBLISHED MAY 2, 1922.

156,672. PHONOGRAPHS. J. & C. FISCHER, New York, N. Y.
Filed January 23, 1922. Serial No. 158,303. PUBLISHED MARCH 21, 1922.

156,673. AUGERS, DRILLS, CHISELS, BITS, AND BUSHINGS OR COLLARS FOR HOLLOW CHISELS. FOREST CITY BIT & TOOL CO., Rockford, Ill.
Filed October 25, 1921. Serial No. 154,551. PUBLISHED MARCH 21, 1922.

156,674. INTERNAL-COMBUSTION ENGINES. FOX MOTOR CAR COMPANY, Philadelphia, Pa.
Filed November 25, 1921. Serial No. 155,879. PUBLISHED MARCH 21, 1922.

156,675. CIGAR CUTTERS. GOLDSMITH, STERN & CO., New York, N. Y.
Filed November 26, 1921. Serial No. 155,959. PUBLISHED MARCH 21, 1922.

156,676. CANDY. W. T. GRANT COMPANY, New York, N. Y.
Filed November 22, 1921. Serial No. 155,748. PUBLISHED MARCH 28, 1922.

156,677. JELLIES, FRUIT PRESERVES, CONSERVES, AND CANNED FRUITS. ISABEL GRAVES, Philadelphia, Pa., and Newton, Mass.
Filed October 29, 1921. Serial No. 154,741. PUBLISHED MARCH 28, 1922.

156,678. JELLIES, FRUIT PRESERVES, CONSERVES, AND CANNED FRUITS. ISABEL GRAVES, Philadelphia, Pa., and Newton, Mass.
Filed October 29, 1921. Serial No. 154,742. PUBLISHED MARCH 28, 1922.

156,679. TOMATO CATCHUP, CHILI SAUCE, AND CANNED PORK AND BEANS. GREENABAUM BROS. INC., Seaford, Del.
Filed November 8, 1921. Serial No. 155,169. PUBLISHED MARCH 28, 1922.

156,680. A GAME PLAYED WITH PIECES SOMEWHAT SIMILAR TO DOMINOES.) ALBERT R. HAGER, Salt Lake City, Utah.
Filed October 24, 1921. Serial No. 154,510. PUBLISHED FEBRUARY 14, 1922.

156,681. CANDY. CORA ISABELLE HARRADEN, Schenectady, N. Y.
Filed October 6, 1921. Serial No. 153,810. PUBLISHED MARCH 28, 1922.

156,682. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING SAME. THE REMER-DELL PRODUCTS CORPORATION, Columbia, S. C.
Filed April 29, 1921. Serial No. 146,980. PUBLISHED MAY 23, 1922.

156,683. HYDRATED LIME, PORTLAND CEMENT, AND FIRE CLAY. HATMAKER & PLACE, Canaan, Conn.
Filed October 28, 1921. Serial No. 154,695. PUBLISHED JANUARY 31, 1922.

156,684. ELECTRIC FIXTURES—NAMELY, CONNECTION PLUGS AND LAMP SOCKETS. HEMCO ELECTRIC MANUFACTURING COMPANY, INC., New York, N. Y.
Filed February 4, 1922. Serial No. 158,868. PUBLISHED MAY 2, 1922.

156,685. ELECTRIC FIXTURES—NAMELY, CONNECTION PLUGS AND LAMP SOCKETS. HEMCO ELECTRIC MANUFACTURING COMPANY, INC., New York, N. Y.
Filed February 4, 1922. Serial No. 158,869. PUBLISHED MAY 2, 1922.

156,686. ICE CREAM. THE HENDLER CREAMERY COMPANY, Baltimore, Md.
Filed November 26, 1921. Serial No. 155,964. PUBLISHED MARCH 21, 1922.

156,687. ICE CREAM. THE HENDLER CREAMERY COMPANY, Baltimore, Md.
Filed November 26, 1921. Serial No. 155,966. PUBLISHED MARCH 21, 1922.

156,688. CHOCOLATE, SWEET CHOCOLATE, AND MILK CHOCOLATE. THE HERSHEY CHOCOLATE COMPANY, Hershey, Pa.
Filed July 22, 1921. Serial No. 150,809. PUBLISHED MARCH 28, 1922.

156,689. ELECTRIC VEHICLE LAMPS. INDIANA LAMP COMPANY, Connersville, Ind.
Filed July 22, 1921. Serial No. 150,812. PUBLISHED MARCH 14, 1922.

156,690. MALLEABLE-IRON CASTINGS. IOWA MALLEABLE IRON COMPANY, Fairfield, Iowa.
Filed November 18, 1921. Serial No. 155,562. PUBLISHED MARCH 21, 1922.

156,691. PREPARED MUSTARD, PEANUT BUTTER, AND VINEGAR IN BOTTLES, BARRELS, AND JUGS. THE JACKSON COMPANY, Dubuque, Iowa.
Filed November 3, 1921. Serial No. 154,983. PUBLISHED MARCH 21, 1922.

156,692. COFFEE. JEWEL TEA COMPANY, INC., Chicago, Ill.
Filed August 1, 1921. Serial No. 151,219. PUBLISHED JANUARY 17, 1922.

156,693. CERTAIN NAMED APPARATUS FOR RADIO-SIGNALING. JEWETT MANUFACTURING CORPORATION, Newark, N. J.
Filed October 1, 1921. Serial No. 153,603. PUBLISHED MARCH 28, 1922.

156,694. MERCERIZED SHOE LACES. WILLIAM C. JOHNSON, Providence, R. I.
Filed October 6, 1921. Serial No. 153,812. PUBLISHED FEBRUARY 7, 1922.

156,695. CERTAIN NAMED JEWELRY. KATZ & OGUSH, INC., New York, N. Y.
Filed January 26, 1922. Serial No. 158,477. PUBLISHED MAY 2, 1922.

156,696. ALARM CLOCKS, ALARM WATCHES, AND WATCHES. KIENZLE UHRENFABRIKEN KOMMANDITGESELLSCHAFT, Schwenningen-on-Neckar, Germany.
Filed January 27, 1921. Serial No. 142,847. PUBLISHED MAY 2, 1922.

156,697. LAUNDRY WASHING MACHINES AND ELECTRICALLY-DRIVEN LAUNDRY WASHING MACHINES FOR LAUNDRY AND HOUSEHOLD USE. LANDERS, FRARY & CLARK, New Britain, Conn.
Filed June 18, 1921. Serial No. 149,339. PUBLISHED MARCH 14, 1922.

156,698. LIQUID GAUGES, GAUGES FOR MEASURING THE RELATIVE CHANGE IN GRAVITIES OF LIQUIDS, AND GAUGES FOR MEASURING THE PERCENTAGE OF DILUTION OR VISCOSITY OF LIQUIDS. CLIFFORD M. LARSON, Chicago, Ill.
Filed October 31, 1921. Serial No. 154,804. PUBLISHED MARCH 21, 1922.

156,699. CANDY — NAMELY, A CHOCOLATE-FLAVORED BAR OR STICK. LICORICE PRODUCTS COMPANY, Dubuque, Iowa.
Filed November 22, 1921. Serial No. 155,761. PUBLISHED MARCH 21, 1922.

156,700. ELECTRIC-POWER-GENERATING UNITS. LINCOLN LIGHT CORPORATION, Grafton, Wis.
Filed January 3, 1922. Serial No. 157,432. PUBLISHED MAY 2, 1922.

156,701. CANDIES AND CHOCOLATES. WILLIAM H. LUDEN, Reading, Pa.
Filed October 3, 1921. Serial No. 153,671. PUBLISHED MARCH 14, 1922.

156,702. CORSETS AND BRASSIÈRES. FLORENCE E. LUND, Chicago, Ill.
Filed February 3, 1921. Serial No. 143,131. PUBLISHED AUGUST 9, 1921.

156,703. TALKING MACHINES AND MUSIC BOXES. LYON & HEALY, Chicago, Ill.
Filed December 27, 1921. Serial No. 157,158. PUBLISHED MAY 2, 1922.

156,704. ELECTRIC MOTORS AND PARTS THEREOF, SHORT CIRCUITERS, CENTRIFUGALLY-OPERATED ELECTRIC CUT-OUTS. THE MASTER ELECTRIC COMPANY, Dayton, Ohio.
Filed December 6, 1921. Serial No. 156,333. PUBLISHED MARCH 14, 1922.

156,705. GEARS. MERKLE-KORFF GEAR CO., Chicago, Ill.
Filed August 2, 1921. Serial No. 151,280. PUBLISHED MARCH 21, 1922.

156,706. CERTAIN NAMED ELECTRICAL APPARATUS. METROPOLITAN-VICKERS ELECTRICAL COMPANY, LTD., London, England.
Filed December 31, 1920. Serial No. 141,728. PUBLISHED MARCH 28, 1922.

156,707. VAPOR-MIXING DEVICES FOR INTERNAL-COMBUSTION ENGINES. E. C. MEITLER CO., Mendo, S. Dak.
Filed September 19, 1921. Serial No. 153,098. PUBLISHED MARCH 21, 1922.

156,708. COCOANUT CANDY. MILLEN CANDY CO. INC., Utica, N. Y.
Filed February 7, 1921. Serial No. 143,280. PUBLISHED AUGUST 2, 1921.

156,709. CERTAIN TOOLS AND MACHINERY. MILLERS FALLS COMPANY, Millers Falls, Mass.
Filed October 17, 1921. Serial No. 154,230. PUBLISHED MARCH 21, 1922.

156,710. ELECTRIC CRANES. MILWAUKEE ELECTRIC CRANE & MFG. CO., INC., West Allis, Wis.
Filed December 1, 1921. Serial No. 156,169. PUBLISHED MARCH 14, 1922.

156,711. STARTING SWITCHES AND CIRCUIT INTERRUPTERS. MINIATURE BREAKER CO., INC., Long Island City, N. Y.
Filed January 26, 1922. Serial No. 158,482. PUBLISHED MAY 2, 1922.

156,712. CANNED CHERRIES, CRUSHED PINEAPPLE, PURE HONEY, MAPLE SIRUP, SELECTED OLIVES, PEANUT BUTTER, STRAWBERRY PRESERVES, GRAPE JELLY, AND SALTED PEANUTS. MI-O-MI INC., New York, N. Y.
Filed July 19, 1921. Serial No. 150,626. PUBLISHED MARCH 21, 1922.

156,713. BEAD NECKLACES. MISSION BEAD COMPANY, Los Angeles, Calif.
Filed October 14, 1921. Serial No. 154,087. PUBLISHED MAY 2, 1922.

156,714. TALKING-MACHINE NEEDLES. WALTER E. MORROW, Lancaster, Pa.
Filed January 21, 1922. Serial No. 158,247. PUBLISHED APRIL 25, 1922.

156,715. FIRE BRICK, FURNACE TILE, BAFFLE TILE, HIGH-TEMPERATURE CEMENT. W. E. MUSHET, San Francisco, Calif.
Filed May 12, 1921. Serial No. 147,629. PUBLISHED FEBRUARY 21, 1922.

156,716. FIRE BRICK, FURNACE TILE, BAFFLE TILE, HIGH-TEMPERATURE CEMENT. W. E. MUSHET, San Francisco, Calif.
Filed May 12, 1921. Serial No. 147,630. PUBLISHED JANUARY 31, 1922.

156,717. SANITARY HUMAN-HAIR NETS. NATIONAL COMMODITIES CO., Philadelphia, Pa.
Filed November 2, 1920. Serial No. 139,087. PUBLISHED MARCH 29, 1921.

156,718. WARP-KNITTING MACHINES. NATIONAL KNITTING MACHINE CO. INC., St. Johnsville, N. Y.
Filed December 14, 1921. Serial No. 156,710. PUBLISHED MARCH 21, 1922.

156,719. CANDIES. W. C. NEVIN CANDY CO., Denver, Colo.
Filed October 27, 1921. Serial No. 154,661. PUBLISHED MARCH 28, 1922.

156,720. IMITATION PEARLS. NEW ENGLAND GLASS WORKS, Providence, R. I.
Filed January 12, 1922. Serial No. 157,845. PUBLISHED MARCH 14, 1922.

156,721. CHOCOLATE-COATED MARSHMALLOW AND CARAMEL BAR CANDY. NUTRINE MFG. CO., Chicago, Ill.
Filed November 17, 1921. Serial No. 155,515. PUBLISHED MARCH 28, 1922.

156,722. PRINTING MACHINES AND CERTAIN OTHER MACHINES, AND PARTS AND INKING DEVICES FOR PRINTING MACHINES. THE OMNIGRAPH COMPANY, Des Moines, Iowa.
Filed December 16, 1921. Serial No. 156,799. PUBLISHED MARCH 21, 1922.

156,723. ELECTRIC GAS-FILLED LAMPS. OSRAM G. M. B. H. KOMMANDITGESELLSCHAFT, Berlin, Germany.
Filed June 20, 1921. Serial No. 149,418. PUBLISHED MARCH 14, 1922.

156,724. ELECTRIC INCANDESCENT LAMPS AND CERTAIN NAMED PARTS THEREOF. OSRAM G. M. B. H. KOMMANDITGESELLSCHAFT, Berlin, Germany.
Filed June 27, 1921. Serial No. 149,718. PUBLISHED MARCH 14, 1922,

156,725. CITRUS FRUITS IN THEIR NATURAL STATE. CHAS. C. OYLER & SON, Cincinnati, Ohio.
Filed October 30, 1920. Serial No. 139,905. PUBLISHED MARCH 21, 1922.

156,726. PHONOGRAPHS, PHONOGRAPH RECORDS, PLAYER AND MANUAL PIANOS AND ORGANS, AND PLAYER ROLLS. PAGE PHONOGRAPH CORPORATION, New York, N. Y.
Filed December 31, 1921. Serial No. 157,387. PUBLISHED MAY 2, 1922.

156,727. TROLLEY GUARDS. WILSON K. PAGE, Olean, N. Y.
Filed November 23, 1921. Serial No. 155,829. PUBLISHED MARCH 14, 1922.

156,728. AUTOMOTIVE PARTS—NAMELY, VALVES FOR INTERNAL-COMBUSTION ENGINES, VALVE SPRINGS, STARTING CRANKS, AND PISTON PINS. THE PARTS SERVICE COMPANY, Cleveland, Ohio.
Filed September 12, 1921. Serial No. 152,863. PUBLISHED MARCH 21, 1922.

156,729. HAMS, BACON, AND LARD. PATRICK-YOUNG CO., Richmond, Va.
Filed July 2, 1921. Serial No. 149,976. PUBLISHED FEBRUARY 7, 1922.

156,730. INDIAN BLANKETS; WOOL IN PIECE FOR MAKING BATH ROBES, BLANKETS, AND SHAWLS; AND BATH-ROBE BLANKETS, ETC. PENDLETON WOOLEN MILLS, Pendleton, Oreg.
Filed March 31, 1921. Serial No. 145,528. PUBLISHED JUNE 28, 1921.

156,731. GIFT RECORD BOOKS. ROSALIE MIRANDA PLACE, Washington, D. C.
Filed February 6, 1922. Serial No. 158,949. PUBLISHED APRIL 4, 1922.

156,732. STRINGED MUSICAL INSTRUMENTS THAT ARE EITHER PLUCKED OR BOWED AND THE PARTS THEREOF. ERNST WALTER PLATE, Philadelphia, Pa.
Filed November 7, 1921. Serial No. 155,115. PUBLISHED MAY 2, 1922.

156,733. PHONOGRAPH RECORDS. PLAZA MUSIC COMPANY, New York, N. Y.
Filed January 5, 1922. Serial No. 157,534. PUBLISHED MARCH 21, 1922.

156,734. VINEGAR. THE POWELL CORPORATION, Canandaigua, N. Y.
Filed November 8, 1921. Serial No. 155,187. PUBLISHED MARCH 28, 1922.

156,735. PRINTING MACHINES AND PARTS THEREOF. PAINTATOR, G. M. B. H., Berlin, Germany.
Filed November 9, 1921. Serial No. 155,285. PUBLISHED MARCH 21, 1922.

156,736. COOKING FATS. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed March 31, 1921. Serial No. 145,530. PUBLISHED JUNE 28, 1922.

156,737. ELECTRIC SOCKETS. THE M. PROPP CO., New York, N. Y.
Filed November 14, 1921. Serial No. 155,362. PUBLISHED MARCH 14, 1922.

156,738. CHEWING GUM. PULVER COMPANY, INC., Rochester, N. Y.
Filed November 17, 1921. Serial No. 155,518. PUBLISHED MARCH 28, 1922.

156,739. STOCK WEANERS. THE PURCELL COMPANY, Kansas City, Mo.
Filed November 21, 1921. Serial No. 155,766. PUBLISHED MARCH 21, 1922.

156,740. ELECTRICAL LIGHTING FIXTURES AND SUPPLIES—NAMELY, WIRE, PORCELAIN GOODS, KNOBS, AND TUBES. JOSEPH RABINOVITZ, trading as Modern Light Supply Company, Philadelphia, Pa.
Filed February 16, 1921. Serial No. 143,650. PUBLISHED MAY 2, 1922.

156,741. DRESS SHIRTS AND NEGLIGÉE SHIRTS. RAINBOW SHIRT CORPORATION, New York, N. Y.
Filed April 5, 1921. Serial No. 145,754. PUBLISHED AUGUST 9, 1921.

156,742. CERTAIN DESCRIBED ELECTRIC PIPE MACHINES. ROBBINS, GAMWELL & COMPANY, Pittsfield, Mass.
Filed November 2, 1921. Serial No. 154,931. PUBLISHED MARCH 14, 1922.

156,743. CERTAIN NAMED TOYS. BOGERS CONSTRUCTION COMPANY, Gloucester City, N. J.
Filed February 17, 1921. Serial No. 143,709. PUBLISHED OCTOBER 11, 1921.

156,744. AUTOMATIC ADJUSTERS IN THE FORM OF BOLTS WITH SPRING TENSION DEVICES FOR BEARINGS FOR AUTOMOBILES AND OTHER MACHINERY. JOHN F. ROSE, Davenport, Iowa, assignor to Kil-Nock Company, Inc., a Corporation of Iowa.
Filed August 29, 1921. Serial No. 152,348. PUBLISHED MARCH 21, 1922.

156,745. CERTAIN NAMED ELECTRICAL APPARATUS. S. SCHMUCKLER & SON, Philadelphia, Pa.
Filed January 12, 1922. Serial No. 157,904. PUBLISHED MAY 2, 1922.

156,746. HARNESS, SADDLES, BRIDLES, REINS OR LINES, HORSE COLLARS, HAME TUGS, BACKBANDS, TRACES, HALTERS, HORSE BLANKETS, AND COLLAR PADS. THE SCHOELLKOPF CO., Dallas, Tex.
Filed July 29, 1921. Serial No. 151,103. PUBLISHED DECEMBER 27, 1921.

156,747. WATCHES AND WATCH MOVEMENTS, DIALS, AND CASES. ADOLPHE SCHWOB, INC., New York, N. Y.
Filed April 7, 1921. Serial No. 145,866. PUBLISHED MAY 2, 1922.

156,748. TOILET PAPER. LINTON & SCOTT, New York, N. Y.
Filed July 2, 1921. Serial No. 149,968. PUBLISHED MARCH 14, 1922.

156,749. COFFEE, FOOD-FLAVORING EXTRACT, AND TEA. JOHN SCOWCROFT & SONS COMPANY, Ogden, Utah.
Filed January 7, 1921. Serial No. 141,957. PUBLISHED MARCH 21, 1922.

156,750. MOLASSES. D. B. SCULLY SYRUP COMPANY, Chicago, Ill.
Filed November 22, 1921. Serial No. 155,776. PUBLISHED MARCH 21, 1922.

156,751. A TITLE AND IDENTIFICATION CERTIFICATE, BEING A BLANK FORM. SECURITY CERTIFICATE COMPANY, Los Angeles, Calif.
Filed October 19, 1920. Serial No. 138,522. PUBLISHED FEBRUARY 21, 1922.

156,752. FINGER RINGS. M. SEIGER & SON, New York, N. Y.
Filed November 14, 1921. Serial No. 155,372. PUBLISHED MAY 2, 1922.

156,753. CHEWING GUM. THE SHELBY SUPPLY AND MANUFACTURING COMPANY, Cleveland, Ohio.
Filed May 25, 1918. Serial No. 111,190. PUBLISHED AUGUST 24, 1920.

156,754. BATTERY BOXES. THE SILURIUM MANUFACTURING COMPANY, Cleveland, Ohio.
Filed January 19, 1922. Serial No. 158,157. PUBLISHED MARCH 28, 1922.

156,755. STORAGE BATTERIES. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed December 16, 1921. Serial No. 156,811. PUBLISHED MAY 2, 1922.

156,756. ARTICLES OF CUTLERY—NAMELY, TABLE KNIVES OF BASE METAL, BUTCHER KNIVES, KITCHEN KNIVES, POCKETKNIVES, RAZORS, AND SCISSORS. SOCIETE GENERALE DE COUTELLERIE & ORFEVRERIE, Paris, France.
Filed October 27, 1921. Serial No. 154,664. PUBLISHED MARCH 21, 1922.

156,757. ARTICLES OF CUTLERY—NAMELY, TABLE KNIVES OF BASE METAL, BUTCHER KNIVES, KITCHEN KNIVES, POCKETKNIVES, RAZORS, AND SCISSORS. SOCIETE GENERALE DE COUTELLERIE & ORFEVRERIE, Paris, France.
Filed October 27, 1921. Serial No. 154,665. PUBLISHED MARCH 21, 1922.

156,758. GRAND AND UPRIGHT PIANOS, PLAYER PIANOS, AND ELECTRICALLY-OPERATED PIANOS. THE SPECTOR & SON PIANO CO. INC., New York, N. Y.
Filed November 7, 1921. Serial No. 155,126. PUBLISHED MARCH 14, 1922.

156,759. LOAD BINDERS. EUGENE C. STACY, Tiffin, Ohio.
Filed June 2, 1921. Serial No. 148,561. PUBLISHED MARCH 21, 1922.

156,760. CANDIES; AND CONFECTIONS IN THE NATURE OF CANDIES, SUCH AS PEANUT BRITTLE, POP-CORN BRITTLE, MOLASSES POP CORN AND CRISPETTES. JOHN D. STEM, Asbury Park, N. J.
Filed October 11, 1921. Serial No. 153,999. PUBLISHED MARCH 14, 1922.

156,761. WRITING INKS. HARRY STOLZER, New York, N. Y.
Filed November 23, 1921. Serial No. 155,834. PUBLISHED MARCH 14, 1922.

156,762. CENTRIFUGAL FANS. B. F. STURTEVANT COMPANY, Boston, Mass.
Filed January 3, 1922. Serial No. 157,445. PUBLISHED MARCH 21, 1922.

156,763. ELECTRIC STOVES. THE STEROLECTRIC COMPANY, Muncie, Ind.
Filed January 27, 1922. Serial No. 158,545. PUBLISHED MARCH 28, 1922.

156,764. COFFEE. ST. LOUIS COFFEE & SPICE MILLS, St. Louis, Mo.
Filed July 6, 1920. Serial No. 134,609. PUBLISHED FEBRUARY 21, 1922.

156,765. LAUNDRY WASHING MACHINES. SUNNY LINE APPLIANCES, INC., Detroit, Mich.
Filed February 26, 1921. Serial No. 144,108. PUBLISHED MAY 2, 1922.

156,766. CHOCOLATE CANDY. THEODORE BROS. CHOCOLATE CO., St. Louis, Mo.
Filed November 22, 1921. Serial No. 155,790. PUBLISHED MARCH 28, 1922.

156,767. DISTILLED VINEGAR, CIDER VINEGAR, SALAD DRESSING, PREPARED MUSTARD, HONEY, COFFEE, COCOA, PEANUT BUTTER, CANNED VEGETABLES, AND CANNED FRUITS. TRINITY GROCERY CO., Dallas, Tex.
Filed November 8, 1921. Serial No. 155,198. PUBLISHED MARCH 21, 1922.

156,768. ADDING MACHINES AND ADDING-MACHINE ATTACHMENTS. TYPE-ADDER MFG. CORP., New York, N. Y.
Filed November 13, 1920. Serial No. 139,637. PUBLISHED MARCH 28, 1922.

156,769. FINGER RINGS WHICH ARE MADE OF OR PLATED WITH PRECIOUS METALS. UNCAS MANUFACTURING CO., Providence, R. I.
Filed January 21, 1922. Serial No. 158,269. PUBLISHED MAY 2, 1922.

156,770. STORAGE BATTERIES. UNITED AUTO ELECTRIC SERVICE, INC., Newark, N. J.
Filed December 30, 1921. Serial No. 157,345. PUBLISHED MAY 2, 1922.

156,771. FRESH DATES. VAN DYK AND REEVES, Brooklyn, N. Y., assignor to Van Dyk and Reeves, Inc., Brooklyn, N. Y., a Corporation of New York.
Filed October 25, 1921. Serial No. 154,575. PUBLISHED MARCH 28, 1922.

156,772. CANNED FRUITS AND VEGETABLES. VIRDEN PACKING COMPANY, Oakland, Calif.
Filed November 1, 1921. Serial No. 154,903. PUBLISHED MARCH 28, 1922.

156,773. CANNED FRUITS AND CANNED VEGETABLES. VIRDEN PACKING COMPANY, Oakland, Calif.
Filed November 1, 1921. Serial No. 154,899. PUBLISHED MARCH 28, 1922.

156,774. READY-MIXED PAINTS AND PAINT ENAMELS. THE VOLTAX COMPANY, Bridgeport, Conn.
Filed October 2, 1920. Serial No. 137,867. PUBLISHED MAY 31, 1921.

156,775. CHEMICAL-CONTROL EQUIPMENT FOR WATER PURIFICATION, CHLORINE-CONTROL APPARATUS, AND CERTAIN OTHER NAMED APPARATUS. WALLACE & TIERNAN CO., INC., Newark, N. J.
Filed June 30, 1921. Serial No. 149,877. PUBLISHED MARCH 21, 1922.

156,776. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. WILLIAM A. WATERS COMPANY, Newark, N. J.
Filed July 2, 1921. Serial No. 149,991. PUBLISHED MARCH 14, 1922.

156,777. CANDIES. SETH W. WATSON, Saginaw, Mich.
Filed November 2, 1921. Serial No. 154,947. PUBLISHED MARCH 21, 1922.

156,778. CIGARS, CIGARETTES; SMOKING, CHEWING, AND PLUG TOBACCO. THE WEIDEMAN COMPANY, Cleveland, Ohio.
Filed November 17, 1921. Serial No. 155,528. PUBLISHED FEBRUARY 7, 1922.

156,779. JAM, JELLY, FRUIT PRESERVES, AND CONSERVES. THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y.
Filed January 21, 1921. Serial No. 142,571. PUBLISHED MARCH 21, 1922.

156,780. COFFEE. THE WEPPNER-WEIL COMPANY, Cleveland, Ohio.
Filed November 9, 1921. Serial No. 155,244. PUBLISHED MARCH 28, 1922.

156,781. CERTAIN NAMED RADIO MECHANISM. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed October 5, 1921. Serial No. 153,778. PUBLISHED MARCH 14, 1922.

156,782. FINISHED STRINGS FOR STRINGED MUSICAL INSTRUMENTS, SUCH AS VIOLINS AND THE LIKE. H. A. WEYMANN & SON, INC., Philadelphia, Pa.
Filed December 10, 1917. Serial No. 107,890. PUBLISHED MARCH 14, 1922.

156,783. TOILET PAPER. WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H.
Filed January 26, 1922. Serial No. 158,501. PUBLISHED FEBRUARY 28, 1922.

156,784. CERTAIN NAMED MUSICAL INSTRUMENTS AND SUPPLIES. D. L. WHITTLE MUSIC COMPANY, Dallas, Tex.
Filed January 14, 1921. Serial No. 142,277. PUBLISHED MARCH 14, 1922.

156,785. PIANO TRAPWORK, WIRE, AND PEDALS. THE WIDNEY COMPANY, Chicago, Ill.
Filed November 3, 1920. Serial No. 139,138. PUBLISHED MARCH 14, 1922.

156,786. BELT BUCKLES, SHOE BUCKLES, CLOTHING BUCKLES, GARTER BUCKLES, ALL OF SAID ARTICLES BEING MADE OF PRECIOUS METAL OR IMITATION OF PRECIOUS METAL. WIGHTMAN & HOUGH COMPANY, Providence, R. I.
Filed November 21, 1921. Serial No. 155,724. PUBLISHED MAY 2, 1922.

156,787. STRINGS FOR VIOLINS AND SIMILAR MUSICAL INSTRUMENTS. WILLIAM VOIT CO., New York, N. Y.
Filed November 9, 1921. Serial No. 155,241. PUBLISHED MARCH 14, 1922.

156,788. LIQUID METERS, PISTON METERS, DISK METERS, TURBINE METERS, BOILER-FEED METERS, DISK COUNTERS. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y.
Filed June 24, 1921. Serial No. 149,606. PUBLISHED MARCH 21, 1922.

156,789. LIQUID METERS, PISTON METERS, DISK METERS, TURBINE METERS, WEIGHT METERS, FLOW METERS, BOILER-FEED METERS, DISK COUNTERS. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y.
Filed June 24, 1921. Serial No. 149,611. PUBLISHED MARCH 21, 1922.

156,790. BATTERY LIGHTING PLANTS, ELECTRIC-LIGHTING PLANTS, SWITCHBOARDS. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y.
Filed June 24, 1921. Serial No. 149,612. PUBLISHED MARCH 21, 1922.

156,791. COMPUTING MACHINES FOR COMPUTING RATES OF INTEREST AND FOR COMPUTING PAY ROLLS. YARD-O-METER CORPORATION, St. Louis, Mo.
Filed June 27, 1921. Serial No. 149,783. PUBLISHED MARCH 21, 1922.

156,792. EXPLOSIVE ENGINES. YELLOW JACKET MANUFACTURING COMPANY, Portland and Anderson, Ind.
Filed October 29, 1921. Serial No. 154,781. PUBLISHED MARCH 21, 1922.

156,826. CERTAIN NAMED JEWELRY. OVINGTON BROS. COMPANY, New York, N. Y.
Filed January 18, 1921. Serial No. 142,403. PUBLISHED MAY 2, 1922.

156,827. RUBBER OR RUBBER AND FABRIC TIRES AND TUBES FOR VEHICLES. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed November 2, 1917. Serial No. 107,101. PUBLISHED APRIL 18, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JULY 11, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

156,793. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Aug. 1, 1921. Serial No. 151,193.



The words "Reg. U. S. Pat. Off." apart from the mark shown are disclaimed.

Particular description of goods.—Corsets.

Claims use since July 1, 1919.

156,794. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Sept. 26, 1921. Serial No. 153,327.

ARDEN

Particular description of goods.—Wedding Paper, Announcement Cards, and Mailing Envelopes.

Claims use since Mar. 1, 1920.

156,795. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed Mar. 25, 1921. Serial No. 145,206.

CRÊPE ROMAIN

Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and China Grass.

Claims use since Sept. 4, 1920.

156,796. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,944.

MANUSCRIPT BOND

Particular description of goods.—Bond Paper for Printing, Lithographing, Pen and Ink, and Typewriting Purposes.

Claims use since 1902.

156,797. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DAYTON PUMP & MANUFACTURING COMPANY, Dayton, Ohio. Filed Feb. 2, 1922. Serial No. 158,760.

Dayton

Particular description of goods.—Electrical House Pumps, Electrical Water Systems, Electrical Gasoline Pumps, and Electrical Combined Pumps and Tanks.

Claims use since 1911.

156,798. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE EDWARD BLOOM CO. INC., New London, Conn., and Paterson, N. J. Filed Apr. 22, 1922. Serial No. 162,715.

NEW LONDON SILKS

Particular description of goods.—Silk Piece Goods.

Claims use since July, 1920.

156,799. (CLASS 39. CLOTHING.) LOUIS M. FURMAN, Brooklyn, N. Y. Filed Dec. 28, 1921. Serial No. 157,220.

Manhattan

Particular description of goods.—Trousers, Overcoats, and Suits for Men and Boys.

Claims use since 1911.

156,800. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. GROSSMANN & CO., INC., New York, N. Y. Filed Apr. 27, 1922. Serial No. 162,990.

KIRKWALL GINGHAM

Particular description of goods.—Cotton Piece Goods.

Claims use since Oct. 1, 1920.

156,801. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922. Serial No. 161,086.

COLUMBIA

Particular description of goods.—Artists' Brushes.

Claims use since February, 1905.

156,802. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922. Serial No. 161,089.

PERFECT

Particular description of goods.—Artists' Brushes.

Claims use since Jan. 1, 1905.

156,803. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922. Serial No. 161,095.



Particular description of goods.—Artists' Brushes.

Claims use since Jan. 1, 1910.

156,804. (CLASS 37. PAPER AND STATIONERY.) IDEAL COATED PAPER COMPANY, Brookfield, Mass. Filed Apr. 1, 1920. Serial No. 130,476.

NOKAKE

Particular description of goods.—Gummed Paper.

Claims use since October, 1916.

156,805. (CLASS 39. CLOTHING.) THE JACKSON & GUTMAN COMPANY, Salisbury, Md. Filed July 1, 1921. Serial No. 149,900.

Salisbury

Particular description of goods.—Negligee Shirts.

Claims use since July, 1896.

156,806. (CLASS 39. CLOTHING.) THE KROHN-FECHHEIMER CO., Cincinnati, Ohio. Filed Jan. 11, 1921. Serial No. 142,080.

TRADE MARK

Particular description of goods.—Ladies' and Misses' Leather Shoes.

Claims use since October, 1898.

156,807. (CLASS 43. THREAD AND YARN.) LAUERMAN BROS. CO., INC., Marinette, Wis. Filed Aug. 23, 1921. Serial No. 152,079.

Ostralian
Knitting Worsted



Particular description of goods.—Knitting Worsted.

Claims use since January, 1917.

156,808. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES MCCREERY & COMPANY, New York, N. Y. Filed Jan. 9, 1922. Serial No. 157,675.

"McCreery Silks"

Particular description of goods.—Silk and Satin Piece Goods.
Claims use since Jan. 1, 1907.

156,809. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BURTON H. PUGH, Topeka, Kans. Filed Sept. 27, 1921. Serial No. 153,405.

AUTO-SPECIALTY MFG. CO. TOPEKA, KANS. SUN-GLARE AUTO SHADE

No claim is made to the words "Topeka" and "Kans."
Particular description of goods.—Windshield Sunshades.
Claims use since Apr. 23, 1921.

156,810. (CLASS 39. CLOTHING.) ROSLYN RACILLE, New York, N. Y., assignor to Alton Fruchter, New York, N. Y. Filed Apr. 9, 1921. Serial No. 145,969.

Racille

Particular description of goods.—Ladies' Hats.
Claims use since Mar. 31, 1921.

156,811. (CLASS 39. CLOTHING.) ROGGEN BROS. & Co., New York, N. Y. Filed Jan. 18, 1922. Serial No. 158,095.

TROY-TAILORED SHIRTS

Particular description of goods.—Dress and Negligee Shirts.
Claims use since July, 1920.

156,812. (CLASS 39. CLOTHING.) LOU J. SCHILLER, New York, N. Y. Filed Dec. 15, 1921. Serial No. 156,764.

"All-Ready"

Particular description of goods.—Ready-Made Hat Linings.
Claims use since Dec. 1, 1913.

156,813. (CLASS 39. CLOTHING.) HARRY G. SELTZER, Reading, Pa. Filed June 20, 1921. Serial No. 149,426.

XLS-ALL

Particular description of goods.—Hosiery, Underwear, Wristlets, Neckties, Sweaters, Bathing Suits, Caps, Gloves, and Scarfs of Knitted Fabric for Men, Women, and Children.
Claims use since Apr. 23, 1921.

156,814. (CLASS 39. CLOTHING.) THE S & S SHIRT COMPANY, Philipsburg, Pa. Filed May 4, 1921. Serial No. 147,216.

The Clearfield

Particular description of goods.—Overalls.
Claims use since October, 1916.

156,815. (CLASS 39. CLOTHING.) S. SHOPIRO COMPANY, INC., Syracuse and New York, N. Y. Filed July 12, 1921. Serial No. 150,293.

DOUBLE SEAT TROUSERS

Particular description of goods.—Young Men's and Boys' Double-Seat Trousers.
Claims use since Jan. 2, 1920.

156,816. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SIMON DAVID ROSENFIELD, Philadelphia, Pa. Filed May 19, 1921. Serial No. 147,941.

HARD-WEAR SOLE LEATHER

Particular description of goods.—Sole-Leather Cut Stock Strips.
Claims use since Jan. 3, 1921.

156,817. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed Mar. 22, 1921. Serial No. 145,090.

SAVOY

Particular description of goods.—Talking Machines, Phonographs, and Music Boxes.
Claims use since on or about November, 1920.

156,818. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STRONG, HEWAT & CO., INC., North Adams, Mass., and New York, N. Y. Filed Apr. 18, 1922. Serial No. 162,515.

STRONG-HEWAT VIRGIN WOOL FABRICS

Particular description of goods.—Woolen Piece Goods.
Claims use since June 28, 1918.

156,819. (CLASS 17. TOBACCO PRODUCTS.) THOMPSON & COMPANY, Tampa, Fla. Filed May 12, 1922. Serial No. 163,769.

THOMPSON & COMPANY

Particular description of goods.—Cigars, Smoking Tobacco, and Cigarettes.
Claims use since Nov. 1, 1915.

156,820. (CLASS 2. RECEPTACLES.) UTILITY MANUFACTURING COMPANY, INC., Goldsboro, N. C. Filed Oct. 29, 1921. Serial No. 154,776.

AQUATITE

Particular description of goods.—Built-Up Packing Cases Made of Waterproof Panels.
Claims use since Jan. 15, 1911.

156,821. (CLASS 39. CLOTHING.) VENUS MANUFACTURING COMPANY, Minneapolis, Minn. Filed Nov. 28, 1921. Serial No. 156,035.

DOUBLE SERVICE KUFF REVERSIBLE

Particular description of goods.—Shirts with Reversible Cuffs.
Claims use since Aug. 16, 1918.

156,822. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VICTOR-MONAGHAN COMPANY, Greenville, S. C. Filed July 14, 1921. Serial No. 150,381.

PANAMA

Particular description of goods.—Cotton Piece Goods.
Claims use since October, 1907.

156,823. (CLASS 37. PAPER AND STATIONERY.) THE WAHL COMPANY, Chicago, Ill. Filed Mar. 10, 1921. Serial No. 144,598.

WAHL

Particular description of goods.—Fountain Pen and Parts Thereof.
Claims use since Sept. 1, 1918.

156,824. (CLASS 11. INKS AND INKING MATERIALS.) WATERS & WATERS MFG. CO., St. Louis, Mo. Filed May 8, 1922. Serial No. 163,557.

Old Dutch

Particular description of goods.—Typewriter Ribbons, Carbon Paper, and Certain Named Inks.
Claims use since May 18, 1912.

156,825. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WEST POINT MANUFACTURING COMPANY, Langdale, Ala. Filed Apr. 28, 1922. Serial No. 163,062.

FAIRFAX

Particular description of goods.—Crash, Towels, and Toweling.
Claims use since June, 1917.

TRADE-MARK REGISTRATIONS RENEWED.

20,950. CEMENT. Registered April 5, 1892. THE BURHAM BRICK, LIME AND CEMENT COMPANY, (LIMITED,) Burham and London, England; The Associated Portland Cement Manufacturers Limited, assignee. Renewed April 5, 1922.

20,974. PLOWS. Registered April 12, 1892. DEERE & COMPANY, Moline, Ill.; Deere & Company, a Corporation of Illinois, assignee. Renewed April 12, 1922.

21,346. WOVEN MACHINE BELTING. Registered June 21, 1892. F. REDDAWAY & Co., Manchester, England, and New York, N. Y.; Rossendale-Reddaway Belting & Hose Company, a Corporation of New Jersey, assignee. Renewed June 21, 1922.

21,782. A PRESERVATIVE FOR BEER. Registered September 27, 1892. A. BOAKE, ROBERTS & Co., London, England; A. Boake Roberts and Company, Ltd., London, England, assignee. Renewed September 27, 1922.

22,105. KNIT UNDERWEAR. Registered December 6, 1892. THE UNITED KNITTING WORKS COMPANY, (LIMITED,) Aarburg, Switzerland. Renewed December 6, 1922.

LABELS

REGISTERED JULY 11, 1922.

24,694.—*Title:* "HYGENO." (For a Whole-Wheat Flour.) ALBERS BROS. MILLING CO., Seattle, Wash. Filed June 3, 1922.

24,695.—*Title:* "BECKWITH." (For Fancy Kadota Figs.) THE BECKWITH CO., Reedley, Calif. Filed June 3, 1922.

24,696.—*Title:* "LIGHTNIN." (For an Insecticide.) CHARLESTON DRUG MFG. CO., Charleston, S. C. Filed June 3, 1922.

24,697.—*Title:* "DOUBLE EAGLE." (For Fresh Pears.) LLEWELLYN B. DUTTON, San Jose, Calif. Filed May 25, 1922.

24,698.—*Title:* "DE LUXE TU-TONE." (For Powder Puffs.) HOCHSCHILD CORPORATION, Chicago, Ill. Filed June 3, 1922.

24,699.—*Title:* "'BEST-EVER' SPONGE BALL." (For a Rubber Ball with Rubber Sponge Center.) HOCHSCHILD CORPORATION, Chicago, Ill. Filed June 3, 1922.

24,700.—*Title:* "FLOR DE ANSON." (For Cigars, Cigarettes, and Tobacco.) THEODORE J. HUMMING, Burlington, Wis. Filed June 2, 1922.

24,701.—*Title:* "KELCOMEAL." (For a Food.) KEHLOR FLOUR MILLS CO., St. Louis, Mo. Filed June 3, 1922.

24,702.—*Title:* "CROWN." (For Salmon.) THE MACLEAY ESTATE CO., Portland, Oreg. Filed June 3, 1922.

24,703.—*Title:* "ROYAL." (For Salmon.) THE MACLEAY ESTATE CO., Portland, Oreg. Filed June 3, 1922.

24,704.—*Title:* "MARSHEL'S BLUE FOUNTAIN PEN INK." (For Packages of Blue Ink.) BLAINE M. MARSHEL, New Albany, Ind. Filed June 3, 1922.

24,705.—*Title:* "REAL-LAGER." (For a Cereal Beverage.) THE OERTEL CO. INCORPORATED, Louisville, Ky. Filed June 3, 1922.

24,706.—*Title:* "PRIMA." (For Barley Malt Extract.) PRIMALT PRODUCTS CO., Chicago, Ill. Filed June 3, 1922.

24,707.—*Title:* "PRIMA." (For Ginger Ale.) PRIMALT PRODUCTS CO., Chicago, Ill. Filed June 3, 1922.

24,708.—*Title:* "BATES." (For Hops.) A. J. RAY & SON, INC., Portland, Oreg., doing business as Hugo V. Loewi, Inc. Filed June 3, 1922.

24,709.—*Title:* "MT. HOOD." (For Hops.) A. J. RAY & SON, INC., Portland, Oreg., doing business as Hugo V. Loewi, Inc. Filed June 3, 1922.

24,710.—*Title:* "GRIZZLY GRIP." (For White Rubber Patch.) 20TH CENTURY TIRE PROTECTOR CO., Midlothian, Tex. Filed June 3, 1922.

PRINTS

REGISTERED JULY 11, 1922.

6,209.—*Title:* "HOSE MULCONROY." (For Advertising Purposes for Hose for Conveying Steam, Water, Air, Oil, Gas, Gasoline, Chemicals, Paint, Sand, Etc.) MULCONROY COMPANY, INC., Philadelphia, Pa. Filed May 27, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

STEIN *v.* DOSCH.

No. 1487. Decided April 3, 1922.

1. PATENTS — INTERFERENCE — AMENDMENT OF PRELIMINARY STATEMENT.

Where the preliminary statement of an experienced inventor, made after at least two consultations with his attorney, stated that he first reduced the invention to practice on a specified date, the refusal to permit him to amend the preliminary statement, after he had seen statement of the adverse party, to allege the making and operation of a machine embodying the invention more than two years before the date stated in his first statement was not an abuse of discretion.

2. SAME — SAME — PRIORITY AWARDED TO THE JUNIOR PARTY.

Where in interference proceedings involving a simple improvement in driving shaft for power-driven sewing machines the junior applicant showed a reduction to practice prior to the filing date of the senior applicant, *Held* that the junior party is entitled to priority.

Mr. Charles J. Williamson for Stein.

Mr. John F. Heine and *Mr. George F. Scull* for Dosch.

ROBB, *J.:*

Appeal from a Patent Office decision in an interference proceeding awarding priority of invention to the junior party Dosch.

The invention is a very simple one. Power-driven sewing machines are arranged in series on either side of a so-called table. In the prior art the driving shaft was located considerably below the table and this invention consists in moving that shaft to a position directly under the table. It is expressed in four counts, of which the first, here reproduced, is sufficiently illustrative:

> 1. As an improvement in power mechanism for sewing machines, the combination of a table supporting a series of sewing machines and having a depression, a driving shaft located in such depression, driving wheels on said shaft, and means for transmission of power from said wheels to sewing machines supported on the table top.

In his preliminary statement, which was the result of at least two interviews with his attorney, Stein, already somewhat experienced as an inventor, alleged that he conceived, disclosed and made drawings of the invention "in the fall of 1914, and made other drawings in or about July, 1916"; that a written description of the invention "was first made on or about January 27, 1917"; that he first reduced the invention to practice "on or about March 15, 1917," by filing his application; "that he has built no machine embodying said invention." After he had seen the preliminary statement of Dosch, he moved to amend his preliminary statement by alleging the making and operation, in December of 1914, of a full-sized machine embodying the invention. This machine, he alleges, was set up on a Sunday, operated for a short time in the presence of his brother, and dismantled on the same day. The Examiner of Interferences said:

> An examination of Stein's testimony shows that he is a person of keen perception and ready understanding. It appears most unusual that Stein should have had two conferences with an experienced attorney in regard to the preparation of the preliminary statement and in his description of the conception of and development of the invention should have failed to mention the only device he ever constructed or the only test that he ever made of his invention. * * * To allow a party to amend his preliminary statement in the manner here asked, after having seen the other party's dates, would tend to negative the value or utility of preliminary statements unless such amendment was accompanied with a clear and satisfactory showing in support thereof.

Accordingly, the motion to amend was denied by the Examiner, and his action was sustained by the higher tribunals.

We concur in the ruling denying to Stein the right to amend his preliminary statement. Certainly no abuse of discretion has been shown. (*Blaw v. Whitall*, 43 App. D. C., 20; 213 O. G., 749.)

Drawings of the Dosch machine were made in August of 1916 and a table embodying the invention was constructed in the latter part of that year. The Examiner of Interferences was not satisfied that reduction to practice prior to Stein's filing date had been shown. The Examiners-in-Chief and the Assistant Commissioner, however, after a careful review of the evidence, reached the conclusion that such reduction to practice by Dosch clearly appeared, and the question is so free from doubt, in our view, that we accept their ruling without further discussion of the evidence. As already stated, the invention is a very simple one and the later changes made in the table were purely mechanical. As was said by the Assistant Commissioner, in speaking of Dosch's early table:

> The assembly of such a structure followed by operation in which the machines were started and stopped and sewing was done would appear to be sufficient to demonstrate whether or not the device was capable of successfully performing the work for which it was intended. * * * The testimony appears to clearly show that the results of the test were satisfactory to those concerned.

Since Stein was lacking in diligence, the decision awarding priority to Dosch was correct and must be affirmed.

Affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Calif.) The Boyle reissue patent, No. 14,695, for canteen, *Held* valid and infringed. *Woolwine Metal Products Co.* v. *Boyle*, 279 Fed. Rep., 609.

(U. S. C. C. A. N. Y.) The Gans patent, No. 1,195,923, claims 1 and 5, for apparatus for softening water by zeolites, *Held* not anticipated and infringed. *Permutit Co.* v. *Harvey Laundry Co.*, 279 Fed. Rep., 713.

(U. S. C. C. A. Wash.) The Heath patent, No. 1,215,149, for improvement in hollow wall construction, *Held* valid and infringed. *Heath Unit Tile Co.* v. *American Fire Brick Co.*, 279, Fed. Rep., 743.

(U. S. D. C. Del.) The Onderdonk patent, No. 1,123,576, for sewing machine, *Held* not infringed. *Union Special Mach. Co.* v. *Metropolitan Sewing Machine Corporation*, 279 Fed. Rep., 770.

(U. S. C. C. A. Ill.) The Smith reissue patent, No. 11,536, for cylinder frame for scales, infringed by use of steel spider. *Computing Scale Co.* v. *Toledo Computing Scale Co.*, 279 Fed. Rep., 648.

(U. S. D. C. Del.) The Weis patents, Nos. 1,025,552, 1,155,533, and 1,155,534, for trimming mechanism for sewing machines, *Held* not infringed. *Union Special Mach. Co.* v. *Metropolitan Sewing Mach. Corporation*, 279 Fed. Rep., 770.

(U. S. D. C. Del.) The Weis patent, No. 1,026,839, for mechanism for sewing machines, *Held* void for anticipation. *Union Special Mach. Co.* v. *Metropolitan Sewing Mach. Corporation*, 279 Fed. Rep., 770.

(U. S. D. C. Del.) The Weis & Weis patent, No. 1,230,355, for sewing machine, claim 29 *Held* valid, but not infringed. *Union Special Mach. Co.* v. *Metropolitan Sewing Mach. Corporation*, 279 Fed. Rep., 770.

(U. S. C. C. A. Pa.) The White patent, No. 1,173,413, for electric-wire terminals, *Held* valid and infringed. *White* v. *Goodrich-Lenhart Mfg. Co.*, 279 Fed. Rep., 741.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

714,882, O. Ernst, Manufacture of orange-yellow to red monoazo dyestuffs, etc.; 741,029, R. Gley & O. Siebert, Red azo dye lake; 770,177, Julius, Reindel & Günther, Process of producing dyestuffs; 807,422, K. Elbel, Manufacture of new zinc compounds; 858,065, Ernst & Gullbransson, Making a monoazo dyestuff suitable for the preparation of dye lakes; suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 389–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. and F. White.*

718,340. (See 892,897.)

741,029. (See 714,882.)

770,177. (See 714,882.)

807,422. (See 714,882.)

824,809, L. D. Pickett, Lubricator, suit filed June 20, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 738, *L. D. Pickett* v. *The F. B. Stearns Co.*

858,065. (See 714,882.)

874,008, 1,026,037, 1,026,090, B. Holt, Traction engines; 1,111,583, P. E. Holt, Traction belts for tractors; 1,194,269, C. L. Best, Traction engines; 1,258,602, W. Turnbull, Tractor; suit filed U. S. D. C., N. D. Calif. (2d Div.), Doc. 594–Eq., *The Holt Mfg. Co.* v. *The Cleveland Tractor Co.* Final decree entered June 9, 1922, adjudging defendant infringed certain claims.

892,897, Schirmacher & Landers, Red vat dyestuffs; 916,029, Schmidt & Bryk, Making new vat dyestuffs; 965,170, K. Elbel, Manufacture of dyestuffs; 968,697, Schmidt, Bryk & Voss, Manufacture of dyestuffs; 999,439, Elbel & Wray, Manufacture of dyestuffs; 718,340, O. J. Graul, Process of making dyestuffs; suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 388–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. and F. White.*

916,029. (See 892,897.)

931,598, L. Haas, Sulphur dyes and process of making same, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 390–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. and F. White.*

958,478, W. E. Davey, Process of reenforcing trees, suit filed June 22, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 387–C, *Davey Tree Expert Co.* v. *A. Lothian.*

959,976, E. C. Wallace, Composite pavements, suit filed February 15, 1921, U. S. D. C., S. D. Calif., Doc. F 1, *Warren Bros. Co.* v. *Thompson Bros., H. E. Vogel & J. B. Hill.* Decree of dismissal entered June 1, 1922.

965,170. (See 892,897.)

968,697. (See 892,897.)

986,148. (See 1,116,398.)

998,789, P. Mayer, Dredge-bucket mounting, suit filed June 10, 1922, U. S. D. C., N. D. Calif. (2d Div.), Doc. 743–Eq., *J. A. Shearer* v. *Pratt Building Material Co.*; Doc. 744–Eq., *J. A. Shearer* v. *Santa Clara Gravel Co.*

999,439. (See 892,897.)

1,026,037. (See 874,008.)

1,026,090. (See 874,008.)

1,043,276, W. H. Volck, Process and apparatus for the manufacture of lime-sulphur solution, suit filed June 14, 1922, U. S. D. C., E. Wash., Doc. 991, *California Spray-Chemical Co.* v. *Yakima Rex Spray Co.*

1,081,592. (See 1,116,398.)

1,081,897. (See 1,116,398.)

1,111,583. (See 874,008.)

1,116,398, 986,148, 1,081,592, 1,081,897, Re. 13,848 (original 1,053,300), P. Ehrlich and A. Bertheim, Medicinal preparations, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 392–C, *The Chemical Foundation Inc.* v. *Diarsenol Co., Inc., and F. White.*

1,141,470. (See Re. 13,617.)

1,157,046, J. Rousso, 1,295,578, A. A. Olson, Towel cabinet, suit filed June 20, 1922, U. S. D. C., Mich., Doc. 472. *J. Rousso* v. *Detroit Towel Supply Co.*

1,185,394, A. E. Greene, Process of melting scrap metal, suit filed May 8, 1922, U. S. D. C., W. D. Wash., Doc. 295–E, *Greene Electric Furnace Co.* v. *Everett Steel Co.* Dismissed May 11, 1922.

1,194,269. (See 874,008.)

1,201,594, E. W. King, Mechanism for priming and operating centrifugal pumps, suit filed June 26, 1922, Doc. 220, *E. W. King* v. *The Seagraves Co.*

1,223,185. (See Re. 13,617.)

1,226,526, U. S. Jenkins, Apparatus and method of separating and refining petroleum, etc.; 1,321,749, same, Apparatus for treating petroleum products; 1,239,423, A. D. Smith, Manufacture of gasoline; 1,247,883, S. Schwartz, Method and apparatus for treating heavier hydrocarbons; 1,295,223, A. D. Smith, Shaft bearings for stills; 1,324,075, A. D. Smith, Process of manufacturing gasoline; 1,374,402, A. D. Smith, Apparatus for distilling petroleum oils; suit filed June 19, 1922, U. S. D. C., W. D. Mo., Doc. 368, *Jenkins Petroleum Process Co.* v. *C. H. Apple, H. R. Heyne, E. C. Higgins and American Gasoline Corp.*

1,239,423. (See 1,226,526.)

1,247,883. (See 1,226,526.)

1,258,602. (See 874,008.)

1,295,223. (See 1,226,526.)

1,295,578. (See 1,157,046.)

1,321,749. (See 1,226,526.)

1,324,075. (See 1,226,526.)

1,343,599, H. F. Waite, X-ray systems, suit filed June 27, 1922, U. S. Court of Claims, Doc. B–129, *H. F. Waite* v. *United States.*

1,374,402. (See 1,226,526.)

1,402,168. (See Re. 13,617.)

1,411,217. (See Re. 13,617.)

1,413,467, R. A. Gaertner, Power net rollers, suit filed June 21, 1922, U. S. D. C., S. D. Calif., *R. A. Gaertner* v. *P. De Maria and F. Musich.*

Re. 13,617 (original 1,068,268), P. A. Koehring, Concrete distributors; 1,141,470, 1,223,185, 1,402,168, 1,411,217, E. H. Lichtenberg, Concrete mixers, etc., suit filed June 2, 1922, U. S. D. C., E. D. Wis., Doc. 1238, C. D., *Koehring Company* v. *The T. L. Smith Company.*

Re. 13,848 (original 1,053,300). (See 1,116,398.)

Re. 14,733 (original 1,247,613), J. L. Axen, Electric meter, suit filed May 3, 1922, U. S. D. C., N. H., Doc. 115 Eq., *National Gauge & Equipment Co.* v. *Beede Electrical Instruments Co., Frank E. Beede.*

Design 55,511, G. F. Gillespie, Design for dolls, suit filed May 31, 1922, U. S. D. C., S. D. Calif., Doc. F 123, *M. M. Gillespie, Admstr.* v. *E. Demijohn.*

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 21, 1922.

Leslie & Welsh, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Flora W. Pinkus, of 93 Third Avenue, New York, for registration of a trade-mark and trade-mark registered November 6, 1894, No. 25,463, to Leslie & Welsh, 297 Main Street, Buffalo, N. Y., and a notice of such declaration sent by registered mail to said Leslie & Welsh at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Leslie & Welsh, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 26, 1922.

Paragon Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of the Pabst Corporation, Milwaukee, Wis., the Decatur Brewing Co., 604 Cantrell Street, Decatur, Ill., and the Pabst Brewing Company, 917 Chestnut Street, Milwaukee, Wis., for registrations of trade-marks and trade-mark registered March 5, 1907, No. 61,117, to the Paragon Malt Extract Co., 3553 Third Avenue, New York, N. Y., and a notice of such declaration sent by registered mail to the said Paragon Malt Extract Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Paragon Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

The Rhubaral Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The William S. Merrell Company, of Fifth and Pike Streets, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 2, 1914, No. 97,440, to The Rhubaral Company, of 1151 Market Street, Wheeling, W. Va., and a notice of such declaration sent by registered mail to said The Rhubaral Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Rhubaral Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

Andrew H. Hanford, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Eureka Metal Polish Co, (Inc.), of 1638 North Fairfield Avenue, Chicago, Ill., for registration of a trade-mark and trade-mark registered December 26, 1911, No. 84,627, to Andrew H. Hanford, of 30 Burling Slip, New York, N. Y., and a notice of such declaration sent by registered mail to said Andrew H. Hanford at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Andrew H. Hanford, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

George Schneibel, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Don F. Lauro, of 289 Washington Street, New York, N. Y., for registration of a trade-mark and trade-mark registered September 17, 1901, No. 37,077, to George Schneibel, of 748 South High Street, Columbus, Ohio, and a notice of such declaration sent by registered mail to said George Schneibel at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Schneibel, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Disclaimers.

835,120.—*Henry Livingstone Sulman, Hugh Fitzalis Kirkpatrick-Picard,* and *John Ballot,* London, England. ORE CONCENTRATION. Patent dated November 6, 1906. Disclaimer filed June 27, 1922, by the assignee, *Minerals Separation North American Corporation.*

"Your petitioner therefore for the purpose of assuring disclaimer of those parts of the thing patented which your petitioner does not choose to claim or hold by virtue of said Letters Patent, if such parts have not been already fully disclaimed, does hereby disclaim, as of March 28, 1917, as well as of to-day, from claims 9, 10, and 11 of said Letters Patent No. 835,120 any process of concentrating powdered ores excepting where the results obtained are the results obtained by the use of oil in a quantity amounting to a fraction of one per cent on the ore."

882,533.—*John M. Phillips* and *Robert F. Phillips,* Carrick, Pa. RUNNING GEAR FOR MINE CARS. Patent dated March 17, 1908. Disclaimer filed May 15, 1922, by the assignee, *The Phillips Mine & Mill Supply Company.*

Hereby disclaims from claim 2—

"Any running gear for mine cars having a wheel which does not have an axle cap, an enlarged bearing-forming bore extending through the hub and terminating at the cap, a bore of diminished diameter extending through the cap only, the shoulder between the two bores forming a thrust-bearing, a second thrust-bearing at the inner end of the hub, and an oil chamber in the hub terminating short of the outer end of the enlarged bearing-forming bore;

"Thereby limiting claim 2 to a running gear for mine cars comprising a wheel which has an axle cap, an enlarged bearing-forming bore extending through the hub and terminating at the cap, a bore of diminished diameter extending through the cap only, the shoulder between the two bores forming a thrust-bearing, a second thrust-bearing at the inner end of the hub, and an oil chamber in the hub terminating short of the outer end of the enlarged bearing-forming bore."

[*Republished to correct error in Official Gazette of May 30, 1922.*]

Patents Nos. 1,422,809 to 1,423,506.

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Issue of July 18, 1922.

Patents	608	No. 1,422,809 to No.	1,423,506,	inclusive.
Designs	46	No. 61,220 to No.	61,265,	inclusive.
Trade-Marks	146	No. 156,828 to No.	156,973,	inclusive.
Labels	32	No. 24,711 to No.	24,742,	inclusive.
Prints	13	No. 6,210 to No.	6,222,	inclusive.
Reissues	6	No. 15,411 to No.	15,416,	inclusive.
Total	941			

Important Information.

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

Original specification. (Facsimile at present time.)

File-wrapper. (File-wrapper only.)

File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)

File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

Assignment. (Give the liber and page of the record as well as the name of the inventor.)

Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Drawings.

RULE 38.

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals, (preferably the latter.)

RULE 52—EXTRACT.

(*f*) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the close and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refers to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall apppear perfectly distinct and separate from the work. If the same part of an invention appear in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Patent Office Publications.

The stock of the following publications is held for sale by the Patent Office, and orders for same should be addressed to the Commissioner of Patents:

Weekly Index—Annual subscription	$1.00
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Weekly edition—Annual subscription	2.00
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Trade-Mark Section of OFFICIAL GAZETTE:	
Weekly edition—Annual subscription	2.50
Single numbers	.05
Manual of Classification of the German Patent Office, (translated,) paper cover	1.00
Index to German Classification	1.00
Definitions of Revised Classes and Subclasses, edition of 1912, (Bulletins 1 to 27, inclusive)	.50
Bulletins, excepting Nos. 28, 29, and 30, (now out of print,) published since 1912, each	.10

Other publications than those above named, exclusive of printed copies of patents, trade-mark registrations, etc., formerly held for sale by the Patent Office, have been transferred to the Superintendent of Documents, Government Printing Office. Orders for such publications should NOT be sent to the Patent Office, but to the Superintendent of Documents, to whom all remittances for such publications should be made payable.

Printed copies of specifications and drawings of patents, trade-mark registrations, etc., will be furnished by the Patent Office, as heretofore.

Notice—Attorney's Address.

Many letters are being returned to this Office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

Condition of Applications Under Examination at Close of Business July 8, 1922.

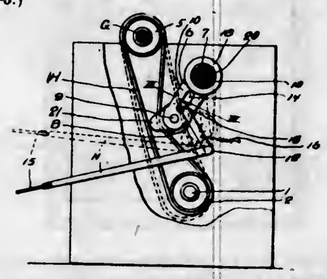
(Total number of applications waiting action, excluding Trade-Mark division, 67,606; Trade-Mark division, 8,451. Oldest new case, Mar. 31; oldest amended, Apr. 1, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Dec. 1	*Jan. 12	919
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	July 23	July 5	1,974
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 17	Aug. 19	953
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 22	*May 4	1,444
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 26	Oct. 6	1,116
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 29	*Feb. 11	1,302
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Oct. 1	Nov. 7	2,394
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 28	*May 6	907
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	*Jan. 2	*May 20	1,121
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 27	*Apr. 4	1,108
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 8	*Feb. 23	672
322	12. PIERCE, P. P., Machine Elements.	Dec. 1	*Mar. 4	1,260
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 20	*Mar. 11	1,720
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 9	*Mar. 16	1,193
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 29	Aug. 31	2,014
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	July 8	July 14	2,361
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 20	*Jan. 13	1,360
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	June 1	May 20	2,432
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	June 6	Nov. 19	1,312
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Feb. 1	*Jan. 12	1,580
212	21. THUBBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Sept. 3	Dec. 29	920
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Nov. 1	*Mar. 21	472
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	June 3	Nov. 5	823
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 17	*Feb. 9	1,215
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 5	*Apr. 5	434
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Sept. 28	Dec. 31	1,057
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 10	Sept. 12	2,008
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 28	Sept. 12	1,684
147	29. MORRIS, E. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastening; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Oct. 8	*May 2	647
152	30. SULLIVAN, M. B., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 3	*Apr. 6	1,487
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 21	Sept. 6	2,142
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Sept. 1	*Mar. 6	964
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 21	*Feb. 1	915
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 21	*Mar. 21	551
52	35. REYNOLDS, E. C., Buckles, Buttons, Claspe, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 4	*Apr. 25	806
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 6	*Jan. 16	1,769
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Aug. 15	Aug. 18	1,882
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 22	Oct. 20	1,759
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	May 17	June 4	2,315
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	July 11	Oct. 6	2,905
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Feb. 9	*Feb. 28	765
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	July 25	June 27	1,974
362	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 1	Oct. 4	1,890
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 14	*Apr. 1	524
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Dec. 13	*Feb. 3	1,243
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 17	Dec. 5	1,289
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Sept. 14	*Jan. 30	1,267
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Mar. 31	Apr. 1	2,847
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.	Sept. 12	*Jan. 20	5,810
	Trade-Marks	Nov. 28	*Jan. 24	2,518
	Designs	June 15	*July 3	123
	Labels and Prints			

PATENTS

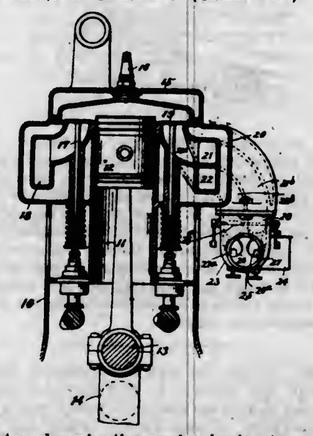
GRANTED JULY 18, 1922.

1,422,809. POWER CONTROL FOR DRIVE MECHANISM. CHARLES W. ANDERSON, Brooklyn, N. Y. Filed May 28, 1919. Serial No. 300,305. 1 Claim. (Cl. 64—5.)



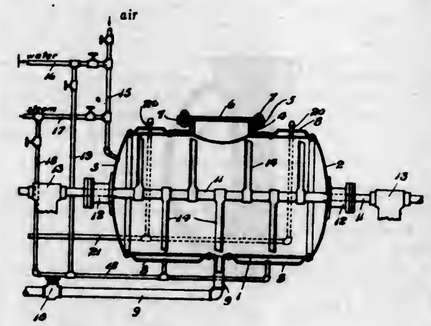
In combination, two smooth-faced pulleys spaced apart, a belt extending between said pulleys adapted to drive one of said pulleys from the other, said belt being normally loose and being arranged so that one lead thereof extends in an approximately vertical direction between said pulleys, a tightener for said belt comprising a body part having two arms projecting therefrom, means whereby said body is pivotally supported so that said arms hang by gravity below said body, an anti-friction roller pivotally supported between said arms at the lower ends thereof adapted to swing with said arms into and out of tightening position against said mentioned lead of the belt, an operating member engaging one of said arms operable to swing said arms into and out of belt tightening position, a spring for maintaining said operating member and said arms normally in non-tightening position, and projections formed upon said arms extending at an angle therefrom into positions for overlapping opposite edge portions of the belt, the arrangement being such that said projections will overlap the edges of the belt and thus serve to guide the belt with respect to said two pulleys at all times whether said arms be in belt tightening or non-tightening position.

1,422,810. INTERNAL-COMBUSTION ENGINE. WALTER D. APPEL, Cleveland Heights, Ohio. Filed Dec. 29, 1916. Serial No. 139,457. 11 Claims. (Cl. 123—59.)



2. An internal combustion engine having two or more intake valves per cylinder, and means for supplying fuel to the cylinder or cylinders through part or all the valves.

1,422,811. GLUE MIXING AND PRESERVING APPARATUS. EDWARD B. APPLEGATE and WILLIAM H. YEOMANS, Grand Rapids, Mich., assignors to Imperial Furniture Company, Grand Rapids, Mich., a Corporation of Michigan. Filed May 18, 1920. Serial No. 382,239. 2 Claims. (Cl. 257—84.)



2. In combination, a tank provided with an entrance opening in the upper side thereof, means for hermetically sealing said opening, an outlet pipe leading from the lower part of the tank, a shaft extending lengthwise of the tank and mounted for rotation, a plurality of stirring paddles attached to the shaft within the tank, a pipe leading into the upper portion of the tank and adapted to carry compressed air into the tank, water and steam pipes connected with the air pipe, a jacket surrounding the tank, a pipe leading from the steam pipe into the space between the jacket and tank, a pipe connecting the water pipe with said last mentioned steam carrying pipe, and valves in the various pipes for controlling the passage of air, water and steam, substantially as described.

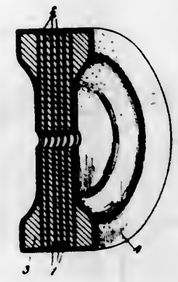
1,422,812. BEARING. PERCY A. E. ARMSTRONG, Watervliet, N. Y. Filed June 13, 1919. Serial No. 303,887. 1 Claim. (Cl. 64—62.)



A bearing comprising an outer race member having a transversely curved inwardly convexed bearing surface, an inner race member having a spherical bearing surface, and a series of rollers between said race members, said rollers having their axes parallel to one another and having their bearing surfaces longitudinally concaved on a curvature larger than the curvatures of the bearing surfaces of the race members and making substantially point contact with said bearing surfaces of the race members

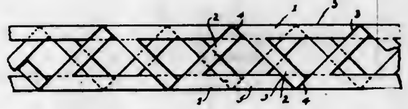
when not under load, and all of said rollers being completely symmetrical in form at and to a substantial distance on each side of the portion thereof of smallest diameter.

1,422,813. LAMINATED COMPOSITE WHEEL. HARRY N. ATWOOD and GEORGE B. BAINS, 3d, Reading, Pa. Filed Dec. 24, 1920, Serial No. 432,939. Renewed Nov. 16, 1921. Serial No. 515,695. 10 Claims. (Cl. 301—63.)



1. The method of producing a composite laminated structure of complex contour which comprises providing a flat body surface with an outstanding portion substantially defining the contour desired, applying to the built-up surface, a ply of vulcanizable material, and subjecting the assemblage to a molding operation attended by heat and pressure whereby to effect union of the ply to the built-up surface and cause the same to conform to the contour of the said surface.

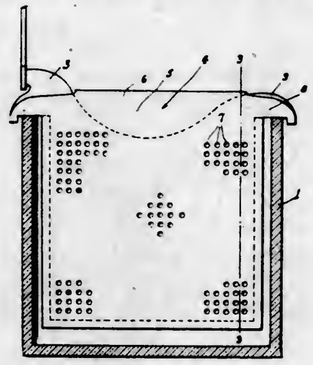
1,422,814. BUILDING BLOCK AND WALL CONSTRUCTION. WALTER C. BARTELT, Thiensville, Wis. Filed Sept. 14, 1921. Serial No. 500,535. 12 Claims. (Cl. 72—38.)



1. A building unit comprising two integral members, the marginal edges of which conform in outline to the sides of an isoceles right-angle triangle.

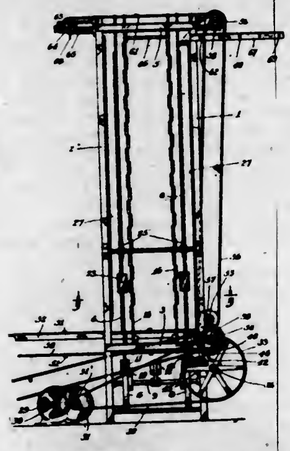
1,422,815. SEPARATOR FOR STORAGE-BATTERY PLATES. GEORGE E. BECK, Cleveland, Ohio. Filed Dec. 17, 1920. Serial No. 431,420. 5 Claims. (Cl. 204—29.)

5. The combination with a battery jar, and a battery plate suspended on the upper edges of the jar, of a separator of non-conductive material and consisting of perforated side members adapted to fit within the jar at the opposite sides of the battery plate and extend over the entire side area of the battery plate, a longitudinal arched portion connecting the upper ends of the side members and bridging the battery plate, and lugs projecting from the upper corners of the side members to engage over the



edges of the battery jar and suspend the separator on the jar independently of the battery plate.

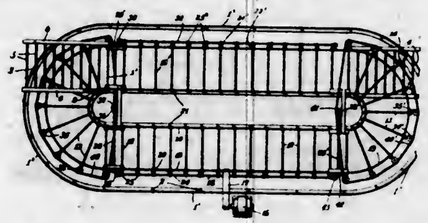
1,422,816. ELEVATING DEVICE. FREDERICK BEERS, New Rochelle, and HOWARD L. POWELL, New York, N. Y., assignors to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 27, 1920. Serial No. 406,446. 6 Claims. (Cl. 34—11.)



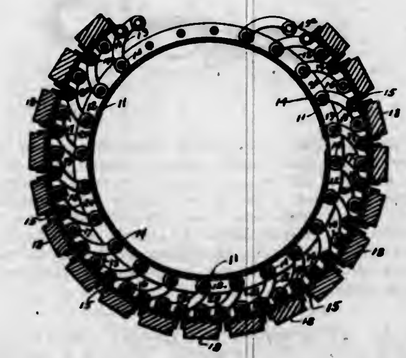
2. In an elevating device, the combination of vertical series of supporting members, lifting means adapted and positioned to rise from and descend to normal positions and, in rising, to lift articles on any of said supporting members to positions in which they are supported by the supporting members next above, rotary means so arranged that one complete revolution thereof will raise and lower said lifting means, a continuously rotating member, and means for periodically connecting said last named member to said rotary means to impart one revolution thereto and then disconnecting the same.

1,422,817. DRIER OR OVEN. FREDERICK BEERS, New Rochelle, and HOWARD L. POWELL, New York, N. Y., assignors to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 27, 1920. Serial No. 406,449. 5 Claims. (Cl. 198—127.)

1. In an oven, the combination of an enclosing casing, and means for progressing articles therethrough in a looped, downwardly slanting path, comprising rollers arranged to extend across such path and means for rotating said rollers all in such direction that articles placed thereon will be carried forwardly over the same by frictional contact therewith, said last named means comprising a rotating shaft, vertical shafts rotated therefrom, and connections for rotating a plurality of said rollers from each vertical shaft.



1,422,818. RIM AND TIRE FOR AUTOMOBILE AND OTHER WHEELS. ISRAEL BENJAMINS, Brooklyn, N. Y. Filed June 2, 1921. Serial No. 474,566. 12 Claims. (Cl. 152—8.)



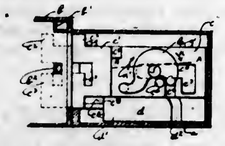
1. In a rim and tire for automobile and other wheels a series of wearing blocks, saddles adapted to hold said blocks, said saddles being connected to each other to form an endless chain, a rim, a series of levers pivotally connected at their outer ends to said saddles and at their inner ends to said rim and springs adapted to act on said levers, thereby acting on said saddles and wearing blocks.

1,422,819. FINGER RING. ERNEST C. BLAICHER, Irvington, N. J., assignor to Interstate Smelting and Refining Co., Inc., Newark, N. J. Filed Feb. 23, 1922. Serial No. 538,447. 1 Claim. (Cl. 63—15.)



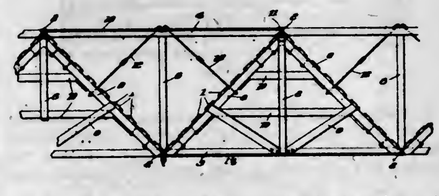
A finger ring comprising an outer perforated ring member, an inner ring member secured snugly within the outer member and having perforations larger in area than the perforations in the outer member and disposed so as to be substantially in register with the perforations in the outer member.

1,422,820. LOCK. ALEXANDER BLOCK, New York, N. Y. Filed Sept. 9, 1920. Serial No. 409,067. 47 Claims. (Cl. 70—46.)



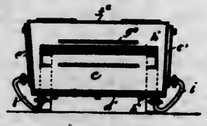
1. In a lock, the combination of an actuator and a hooked bolt connected together for longitudinal movement relatively to each other, means for moving said hooked bolt and for subsequently causing said actuator to move in a direction for projecting the hooked bolt into engaging position, and to then move said actuator into its extreme operative position and into supporting relation with reference to said hooked bolt.

1,422,821. SHEET-PILING WALL CONSTRUCTION. CHARLES S. BOARDMAN and CLOUD CLIFFORD CONKLING, Buffalo, N. Y.; Lucile C. Conkling executrix of the will of said Cloud Clifford Conkling, deceased, assignors to Lackawanna Steel Company, Lackawanna, N. Y., a Corporation of New York. Filed July 7, 1915, Serial No. 38,609. Renewed Nov. 26, 1919. Serial No. 340,800. 4 Claims. (Cl. 61—39.)



1. A wall of sheet piling composed of triangular units, each formed of wall sections of interlocking sheet piling arranged in angular relation and sustaining members connected to the sections to form independently sustained units and to connect the units and therewith to form interacting trusses and the piling of said sections being interlocked in continuous saw tooth arrangement to form a continuous wall and to connect the units substantially as described.

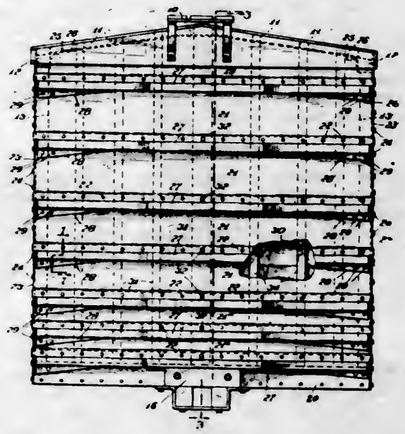
1,422,822. MACHINE FOR APPLYING SOLUTIONS OF RUBBER OR THE LIKE TO FABRICS. ALBERT BONCLER, Malmo, Sweden, assignor to Benzine Condensation Co. Inc., a Corporation of New York. Filed Sept. 13, 1920. Serial No. 409,969. 4 Claims. (Cl. 34—48.)



3. A machine for applying to fabric webs or impregnating fabric webs with solutions of rubber or similar material, comprising a working table and a casing, provided with cooling means on its lower part, the cooling means being so constructed and arranged that the rate of flow of the cooling medium through different portions of the casing will not be uniform whereby the lateral walls of the casing will be cooled at different temperatures, the

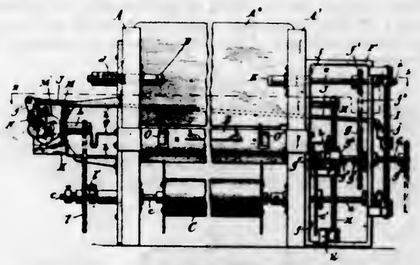
cooling part of the casing constructed in three sections, two of these forming the lateral walls and one the bottom, each of which being constructed hollow or double independent from one another, and pipes to connect the lower parts of the side walls with the hollow space of the bottom, outlets on the upper part of the side walls, and an inlet pipe on the bottom arranged to one side of the centre line.

1,422,823. REENFORCED CAR END-WALL STRUCTURE. CHARLES D. BONSALL, Parnassus, Pa., assignor to Walter P. Murphy, New York, N. Y. Filed Nov. 14, 1919. Serial No. 338,075. 34 Claims. (Cl. 105—410.)



4. A sheet metal end panel for a railway car comprising a metal sheet formed with an out-pressed rigidifying rib which for a portion of its length is in the form of a web having a free edge and adjacent an end is channel-formed.

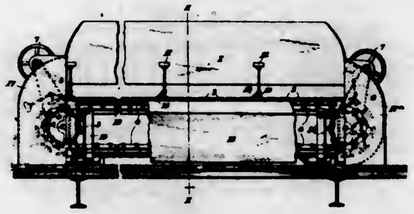
1,422,824. TRACKING DEVICE FOR PLAYER PIANOS. GEORGE P. BRAND, New York, N. Y. Filed Oct. 25, 1917. Serial No. 198,468. 69 Claims. (Cl. 84—137.)



1. The method of automatically maintaining registration between the perforations of a music sheet and the air ducts of a tracker bar, which consists in mechanically varying pressure to preserve alinement without lateral deviation of the music sheet from its correct position.

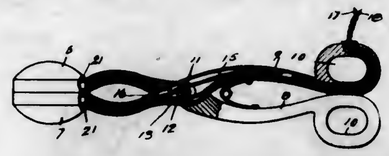
1,422,825. THEATER SEAT. RAYMOND BROOKS, Benson Mines, N. Y. Filed Mar. 11, 1920. Serial No. 364,948. 5 Claims. (Cl. 104—25.)

2. In seats for theaters and the like, a plurality of seating surfaces movable in a direction transverse to that in which the seats face, each seating surface being movable independently of the other seating surfaces, each seating surface being mounted on an endless conveyor and being movable when in operative position away from an



entrance aisle toward an exit aisle, and when in inoperative position away from an exit aisle toward an entrance aisle.

1,422,826. ELECTRICALLY-HEATED TONGS. FRANK O. BROWN, St. Louis, Mo. Filed Oct. 24, 1921. Serial No. 509,787. 4 Claims. (Cl. 219—21.)



1. An electrically heated tong comprising a pair of hollow jaws, hollow handles formed integral with said jaws, a heating unit located in each of said jaws, electric conductors located in the hollow handles and connected to the heating units, said conductors extending through and out of one of said handles, an electric switch located in one of said handles for interrupting the electric current through said conductors, and means for removing said heating units.

1,422,827. ATTACHMENT FOR VIOLINS AND ANALOGOUS STRING INSTRUMENTS. WILLIAM I. BROWN, Syracuse, N. Y. Filed Jan. 27, 1922. Serial No. 532,092. 2 Claims. (Cl. 84—281.)

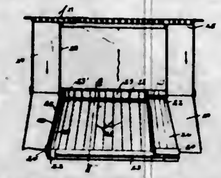


1. An attachment for violins and analogous stringed instruments comprising a base-plate having a thumb rest, and means for clamping the base-plate to the head of the instrument, and including relatively adjustable hook-shaped members for interlocking engagement with the tuning pins of said instrument.

1,422,828. PIPELESS FURNACE. CHARLES M. BULLER, Milwaukee, Wis., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 12, 1919. Serial No. 337,553. 5 Claims. (Cl. 126—99.)

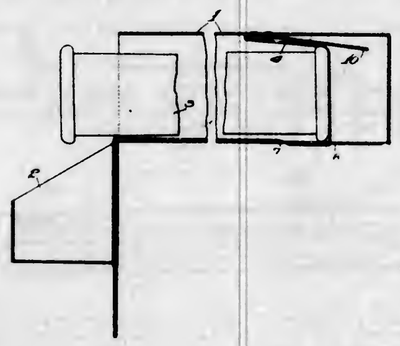
1. A section for a heating furnace consisting of a tapered tubular casing having longitudinally extending

reinforcing plaits in spaced relation, the plaits at the end of the casing of less size being of greater width than



at the other or larger end of the casing, said casing having a medial circumferentially extending rib and an end flange.

1,422,829. CONTAINER FOR MUSIC ROLLS AND THE LIKE. CHARLES S. BURTON, Oak Park, Ill. Filed Feb. 27, 1919, Serial No. 279,647. Renewed Dec. 5, 1921. Serial No. 520,159. 4 Claims. (Cl. 206—52.)



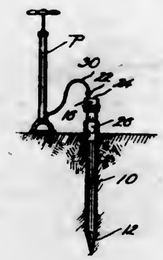
3. A container for a longitudinally-rigid article consisting of a tubular box having one open end; a telescoping closure for that end; a catch in the box for engaging the contained article when the latter is fully thrust into the box; a strap secured to the box and extending from its securement back from the open end for passing about the inner end of the contained article, and thence forward to the open end and in its course masking the engaging end of the catch, and at the forward end connected with the telescoping closure and accessible exteriorly thereof for simultaneously drawing the strap taut around the inner end of the article and between the same and the masked catch and withdrawing the telescoping closure.

1,422,830. FUSE EMPLACING AND REMOVING IMPLEMENT. HAZEL B. BUSH, Bedford, Ohio, assignor to The Bush Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 24, 1919, Serial No. 332,915. Renewed Dec. 14, 1921. Serial No. 522,440. 19 Claims. (Cl. 81—3.)



1. In an implement of the class set forth, the combination of fuse gripping jaws, and an adjustable latch for maintaining the jaws in closed condition with varying degrees of positiveness.

1,422,831. VERMIN EXTERMINATOR. WILLIAM WYATT CAMP, Denver, Colo. Filed Aug. 9, 1920. Serial No. 402,169. 1 Claim. (Cl. 43—129.)



A vermin exterminator comprising a perforated member adapted to be driven into the ground, means to seal the member above the surface, said means including an adjustable sleeve to cover and uncover varying numbers of the upper perforations as desired, and means to admit a gas under pressure into the tube.

1,422,832. VALVE CUT-OFF AND SPEED INDICATOR FOR LOCOMOTIVES. VIRGINIUS Z. CARACRISTI, Bronxville, N. Y., and ANTHONY F. WALLBILLICH, Newark, N. J. Filed Sept. 30, 1920. Serial No. 413,765. 7 Claims. (Cl. 234—1.)

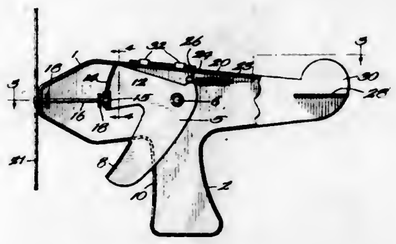


1. In combination with a speed indicator for vehicles and actuating means for the propulsion medium-controlling valve of the vehicle, said valve being movable in opposite directions from a neutral position for the forward and reverse movements of the vehicle; a second indicative means correlated with said speed indicator, means operatively connecting said second indicative means with the valve actuating means to operate the said second indicative means, upon a movement of the valve in one direction from its neutral position to propel the vehicle forwardly, to an extent determined by the speed indicator, whereby the valve is correctly positioned for the propulsion of the vehicle at a desired speed, said connecting means permitting of the movement of said valve in a reverse direction from its neutral position without effecting the operation of said indicative means.

1,422,833. TOY. JOHN W. CARLSON, Chicago, Ill., assignor to Chicago Novelty Mfg. Co., Chicago, Ill., a partnership composed of John W. Carlson, David Seaholm, and Conrad Johnson. Filed Apr. 20, 1921. Serial No. 463,088. 6 Claims. (Cl. 46—14.)

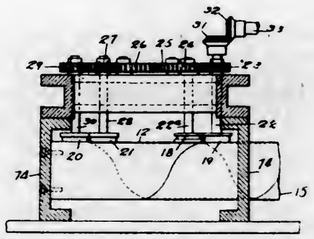
1. A toy having a body with a hand grip approximating that of a pistol, and a revolving blade approximating the propeller of an airplane, an actuator being adapted to and resembling a trigger, said actuator being adapted to be manually operated and pivoted to the body so as to oscillate in a plane passing through the axis of the

propeller, and a ratchet device operatively connecting the trigger and the propeller for rotating the latter when the



trigger is oscillated, said ratchet device constituting a one-way transmission whereby the oscillation of the trigger drives the propeller always in the same direction.

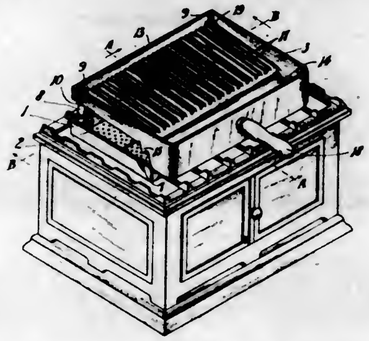
1,422,834. APPARATUS FOR MANUFACTURING PIPE. FRANK W. COLBY, Chicago, Ill., assignor to The Kansas City Spiral Pipe Company, a Corporation. Filed Jan. 19, 1916, Serial No. 72,949. Renewed Dec. 12, 1921. Serial No. 521,921. 14 Claims. (Cl. 113—35.)



1. An apparatus for making spiral pipe from a single strip of material, comprising a series of shaping rollers for bending the edges of the strip material so that each edge has two parallel overlapping portions at an angle to the main body of the strip, a mandrel at an angle to said strip, about which the strip is wrapped, into spiral form so that the parallel overlapping portions of one edge of the strip fit in between the parallel overlapping portions of the other edge of the strip, and opposed compressing rollers for compressing said parallel portions of the bent edges toward each other to clamp them together.

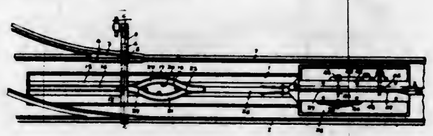
1,422,835. KITCHEN UTENSIL FOR BROILING AND TOASTING FOOD. ALICE CONDY, Ashfield, near Sydney, New South Wales, Australia, assignor to John Edward Bolger, Sydney, New South Wales, Australia. Filed Mar. 25, 1921. Serial No. 455,431. 2 Claims. (Cl. 53—5.)

1. A kitchen utensil comprising an open base frame adapted to be supported over a fuel burner, a sheet of heat conducting and heat radiating material mounted in said frame, said sheet having regularly spaced orifices, said orifices being countersunk on the underside and burred slightly on the upper side, a broiler device having grooved grid-bars, and a common catchment trough and



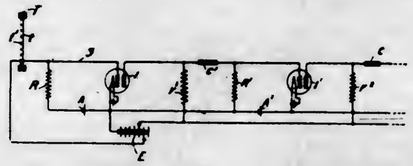
means for the attachment of said broiler device to said base frame.

1,422,836. RAILWAY SWITCH. JAMES D. COOPER, Toronto, Ontario, Canada. Filed Dec. 3, 1919. Serial No. 342,164. 5 Claims. (Cl. 246—327.)



1. In a railway switch mechanism, the combination with the switch and a vehicle, of a transversely slidable member operatively connected with the switch and having a downwardly projecting pin, a longitudinally slidable member having a pair of interconnected guide-ways engaging the pin of said switch operating member and adapted to move said switch operating member in the reverse direction according to its direction of movement, a bar pivotally connected to said longitudinally movable member, a casing having vertical side walls formed with guide-ways therein, said guide-ways being separated by a plate member having one end closing the lower guide-way and adapted to spring upwardly, laterally projecting pins on said bar operating said guide-ways, a shoe carried by the vehicle adapted to be lowered into contact with said bar, means for locking the bar in the forward position, means for returning the bar, and means actuated by the shoe for releasing said locking means.

1,422,837. CONNECTING TRANSMITTERS TO VACUUM TUBE AMPLIFIERS. IRVING B. CRANDALL, Nahant, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 13, 1917. Serial No. 196,389. 11 Claims. (Cl. 179—171.)

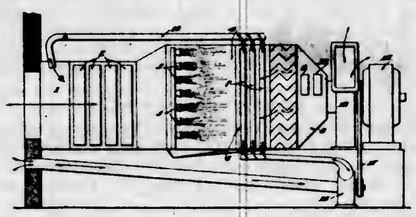


2. In combination, a transmitter for changing sound waves into waves of electrical current, an amplifier for said current waves, and a common source of electrical energy arranged to energise said transmitter and to furnish operating current for said amplifier.

1,422,838. PROCESS OF CHLORINATING GASEOUS HYDROCARBONS AND RECOVERING PRODUCTS THEREFROM. GEORGE O. CURME, Jr., Pittsburgh, Pa., assignor to Carbide & Carbon Chemicals Corporation, a Corporation of New York. Filed July 7, 1920. Serial No. 394,571. 2 Claims. (Cl. 23—24.)

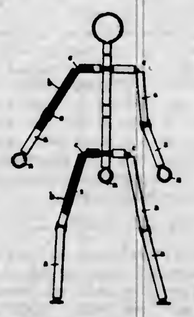
1. Process of preparing and recovering halogen substitution-products from gaseous hydrocarbons, comprising mixing the hydrocarbon in excess with the gaseous halogen; effecting combination of the halogen with liberation of the anhydrous halogen acid; separating the reaction products of higher boiling point than the hydrocarbon from the resulting gas mixture by anhydrous liquefaction; and returning the residual gaseous hydrocarbon to the operating cycle.

1,422,839. METHOD OF HUMIDIFYING AIR. PHILIPPE DE CLAMECY, Boston, Mass., assignor to B. F. Sturtevant Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 3, 1919. Serial No. 321,392. 1 Claim. (Cl. 183—120.)



The method of humidifying air which consists in heating the air to a temperature in excess of the temperature at which it is to be delivered, spraying water into the heated air, projecting the heated air against a separating surface to precipitate a portion of the water held in suspension by the air, maintaining the separating surface cool by means of a current of air which first cools the separating surface and then becomes a part of the supply of air to be heated, and allowing the remaining portion of the water held in suspension by the air and not precipitated on the separating surface to be vaporized to give the desired humidity at the desired temperature.

1,422,840. JOINTED LAY FIGURE, MODEL, OR DOLL. CONSUÉLO DE GRASSE, née FOULD, Paris, France. Filed Feb. 24, 1920. Serial No. 360,758. 5 Claims. (Cl. 46—40.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



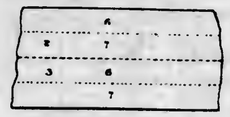
1. In a doll or lay figure, a skeleton consisting of flexible wire and rigid tube sections, all the latter being threaded on the same wire and having their adjacent ends adapted to make contact with each other.

1,422,841. LUMINOUS ARTICLE AND METHOD OF MAKING THE SAME. WILLIAM H. DEY, Jersey City, N. J., assignor to United States Radium Corporation, a Corporation of Delaware. Filed Nov. 16, 1920. Serial No. 424,379. 6 Claims. (Cl. 240—1.)



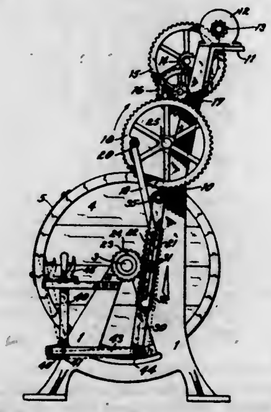
1. A luminous article, comprising a glass casing provided with a bore, and a glass rod the diameter of which is slightly less than the diameter of the bore, painted with luminous paint, located in the bore.

1,422,842. READING RIBBON IN SIGNALING MACHINES. WILFRID DOUCALL, Montreal, Quebec, Canada. Filed Mar. 13, 1920. Serial No. 365,648. 4 Claims. (Cl. 178—112.)



4. A reading ribbon comprising a length of sheet material in ribbon form divided longitudinally on an imaginary line in two equal parts and subdivided longitudinally into left and right hand divisions in each longitudinal half, the said longitudinal halves having perforations in transverse arrangement for left and right hands in groups or singly, these perforations continuing in successive lines along one longitudinal half and back by the other finishing at or about the starting point and completing a book roll.

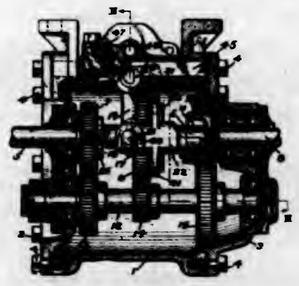
1,422,843. DRIVING MECHANISM FOR WASHING MACHINES. WALTER ERNI, Milwaukee, Wis. Filed June 25, 1917. Serial No. 176,743. 1 Claim. (Cl. 74—60.)



Driving mechanism for washing machines having an oscillatory drum, said driving mechanism comprising a pinion operatively connected with said drum, an oscil-

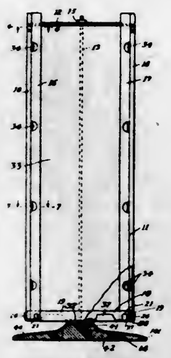
latory rack adapted to be thrown into and out of mesh with said pinion, a guide for said rack pivotally mounted to swing about a point above said pinion, means for reciprocating said rack, a bell crank lever linked to the lower end of said guide for moving said rack into and out of mesh with said pinion, said bell crank lever having a substantially vertically disposed manually operable arm, and means carried by said arm for positively locking said arm in either of its two extreme positions.

1,422,844. AUTOMATIC TRAIN-SPEED-CONTROL DEVICE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 12, 1920. Serial No. 380,856. Renewed Jan. 14, 1921. Serial No. 437,356. 23 Claims. (Cl. 246—19.)



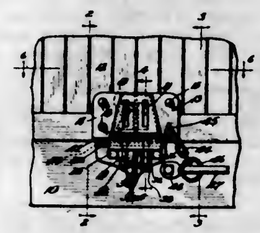
2. In a train speed control apparatus, the combination with a speed governor and a driving member operating at a speed relative to the speed of the train, of a change speed gear mechanism having different positions for varying the speed of the governor relative to the speed of the driving member and means including a removable staff for setting the speed gear mechanism to its different positions.

1,422,845. DISPLAY DEVICE. GEORGE M. FRANKS, St. Paul, Minn. Filed Mar. 2, 1921. Serial No. 449,183. 9 Claims. (Cl. 211—20.)



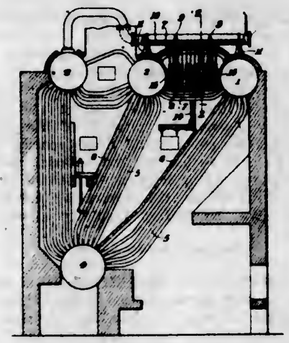
3. A display device comprising a lower frame member formed of a single piece of sheet iron, flanges turned upwardly from the body of said lower frame member along the edges thereof, ears pressed out of said upturned flanges and uprights mounted on said lower frame member between said ears and flanges.

1,422,846. LOCK FOR SLIDING DOORS. JAMES C. FRITTS, Scranton, Pa. Filed Sept. 6, 1921. Serial No. 498,617. 8 Claims. (292—148.)



1. A lock for sliding doors comprising, in combination, a chambered casing having a bolt aperture in its face, a headed bolt loosely housed in the casing and adapted when withdrawn to have its forward end out of alignment with the aperture, a keeper having an outstanding apertured flange, the aperture being adapted to register with the casing aperture, and a key member for attachment to the free end of the bolt when advanced through the keeper.

1,422,847. SUPERHEATER. ERNEST H. FOSTER, Dongan Hills, N. Y., assignor to Power Specialty Company, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,429. 5 Claims. (Cl. 122—478.)

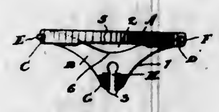


1. The combination in a steam boiler of the Stirling type as herein described where in a plurality of upper drums are connected by circulating tubes, of a superheater with transverse parallel vertical rows of tubes placed between the circulating tubes connecting the first and second upper drums, a beam mounted on and above said drums, a support for the superheater suspended therefrom and a vertical baffle which forces the furnace gases up and over the superheater tubes, said baffle extending up centrally between the transverse vertical rows of superheater tubes.

1,422,848. EXTRACTION OF POTASSIUM COMPOUNDS. WALTER GLASER, Brooklyn, N. Y., assignor to Potash Extraction Corporation, New York, N. Y., a Corporation of New York. Filed June 7, 1918. Serial No. 238,768. 6 Claims. (Cl. 23—22.)

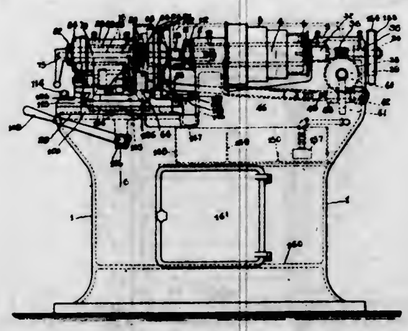
1. In a method of making hydrochloric acid, the steps which consist in heating calcium chloride with alunite in the presence of steam and then collecting the hydrochloric acid evolved.

1,422,849. TIE HOLDER. WILLIAM HARRY GRAINGER, Toronto, Ontario, Canada. Filed Apr. 14, 1921. Serial No. 461,224. 1 Claim. (Cl. 2—84.)



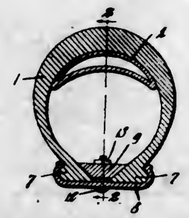
In a tie-holder, in combination a bow-shaped plate-like cross-bar provided with a concaved portion in its upper edge, and having each end projecting above said conceived portion; a tongue integrally formed with said bar, curved to conform to the bowed-shape of said cross-bar, and located substantially between said ends, and below said concaved portion and having a vertical slot opening through the lower end thereof, a bow-shaped plate-like cross-bar adapted to permit a neck-tie to be knotted thereon, and designed to rest in lateral contact with the ends of said first-mentioned cross-bar and relatively narrow so as to leave a space between the lower edge of said second-mentioned cross-bar and the edge of said concaved portion through which a certain portion of a tie will extend, and means whereby said bars are associated at their ends so as to permit of the separation thereof either for the substitution of a bar corresponding to said second-mentioned bar, or the removal of a tie mounted thereon.

1,422,850. MILLING MACHINE. WALTER A. GRUENBERG and DORA MILLER, Detroit, Mich., assignors to The Miller Transmission Company, New York, N. Y., a Corporation of Maine. Filed Sept. 22, 1919. Serial No. 325,313. 17 Claims. (Cl. 90—18.7.)



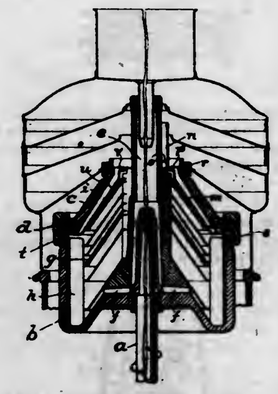
1. In a machine of the character described, the combination of a supporting frame, a rotary cutting tool, driving means therefor, a work supporting table on the frame, a carrier plate fitted thereon and adjustable longitudinally with reference to the tool, said carrier plate being formed with a transverse guide-way, a work carriage fitted to said guide-way and capable of transverse adjustment therein, a gauge plate and coacting locking means associated with the carrier plate and carriage to determine the carriage adjustment therein, a work holder journalled in the carriage and slidable therein toward and from the tool, cam means associated with the work holder to effect the movement thereof toward and from the tool during the milling operation to define the contour of the finished surface and operating connections for the work holder connected to the driving means whereby the feed movement of the work holder is transmitted from the latter in definite ratio, said operating connections comprising a flexible shaft to accommodate for the adjustment of the work holder, substantially as described.

1,422,851. TIRE. WILLIAM R. HALFPENNY, Juniata, Pa. Filed July 8, 1921. Serial No. 483,293. 1 Claim. (Cl. 152—8.)



A vehicle tire comprising a casing having rim engaging means, and a spring ring crescent-shaped in cross section and having detachably connected interfitting ends, spring ring being seated in the casing against the tread portion thereof.

1,422,852. CENTRIFUGAL MACHINE. SELDEN H. HALL, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 6, 1921. Serial No. 490,376. 9 Claims. (Cl. 233—46.)

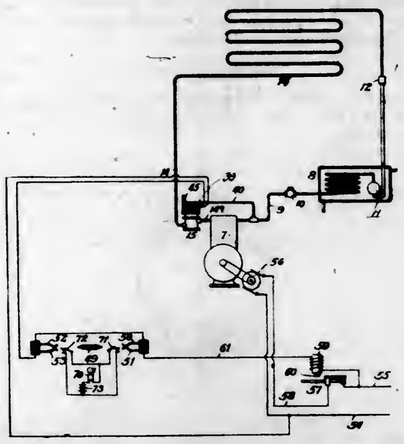


1. A convertible centrifuge comprising a bowl shell, a top disc above the separating space of the bowl, and alternative means one affording a free flow for heavy liquid from the peripheral part of said separating space to the space above the top disc and the other obstructing the flow to said space above the top disc.

1,422,853. CONTROLLING MECHANISM FOR REFRIGERATING APPARATUS. CHARLES C. HANSEN, Forest Park, Ill., assignor to Refrigerating Specialties Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 18, 1916. Serial No. 115,694. 3 Claims. (Cl. 230—24.)

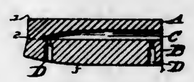
1. In a refrigerating system, the combination of a compressor, a circulating line for the refrigerant connected to

the compressor, an automatic cut-off in the low pressure side of the line leading to the compressor, a signalling de-



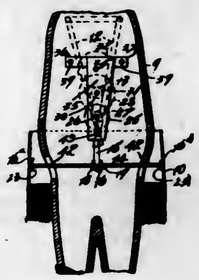
vice, and common means for operating first said signalling device and then said cut-off.

1,422,854. DOUBLE CUSHIONED SHOE HEEL OR LIFT. MAX G. HART, Elyria, Ohio. Filed Mar. 15, 1921. Serial No. 452,453. 4 Claims. (Cl. 36—35.)



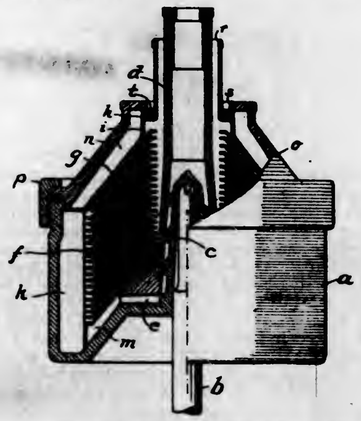
1. In a shoe heel or lift having integral upper and lower portions of different elasticity, the said portions being separated along the front edge of the heel with an interposed compensating chamber.

1,422,855. SHIMMY DOLL. SAMUEL HASKELL, Brooklyn, N. Y. Filed July 21, 1921. Serial No. 486,343. 5 Claims. (Cl. 46—40.)



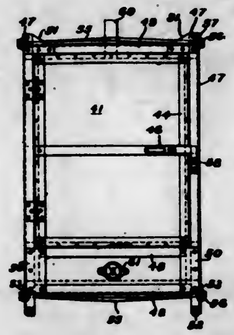
1. The combination of a doll, a skirt carried by the doll and hanging loosely therefrom, a bar mounted for movement transversely of the doll, said bar, at its ends, contacting with said skirt, and means to impart to the bar a variable movement transversely of the doll.

1,422,856. CENTRIFUGAL MACHINE. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed May 5, 1921. Serial No. 466,962. 5 Claims. (Cl. 233—41.)



1. A convertible centrifuge comprising a bowl body, a liner within the bowl comprising a number of discs for dividing the liquid into layers, there being openings for the escape of liquid constituents of different specific gravities, a removable bowl cover, and a removable annular gasket adapted when inserted in the bowl, to be confined in non-adjustable position between the bowl cover and the liner in position to block the escape of liquid through one of said openings.

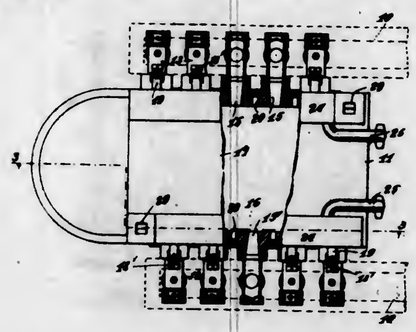
1,422,857. ELECTRIC OVEN. JULIUS D. HAYNSWORTH, Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Pennsylvania. Filed Aug. 3, 1921. Serial No. 489,478. 4 Claims. (Cl. 25—132.)



1. An oven comprising a back mounting panel having a channel in one face adjacent its periphery, a top and a bottom panel having one edge located in a co-operating portion of said channel, side panels having one edge located in a co-operating portion of said channel, a bottom front panel having a channel in one face adapted to fit over one edge of the bottom panel, a rear metal frame, a front metal frame and rods for clamping said frames against said oven panels.

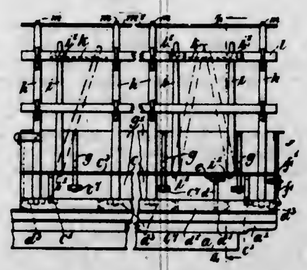
1,422,858. MELTING TANK. GUY C. HEILMAN, Philadelphia, Pa. Filed Oct. 20, 1919. Serial No. 331,804. 7 Claims. (Cl. 49—54.)

1. A device of the class described, provided with a main chamber, combustion chambers discharging into said main chamber at one side, and peep-holes located in the opposite wall of the main chamber, in line with the said combustion chambers.



4. A device of the class described, provided with a main chamber of substantially rectangular shape having outlets at diagonally-opposite corners, combustion chambers discharging into said main chamber, and air-heaters each provided with an approximately horizontal air-chamber delivering air to one of said combustion chambers, and hot-gas chambers located above and below said air-chamber and connected at one end, the lower chamber being connected with the outlet of the main chamber at the other end, while the other end of the upper chamber has an outlet connection.

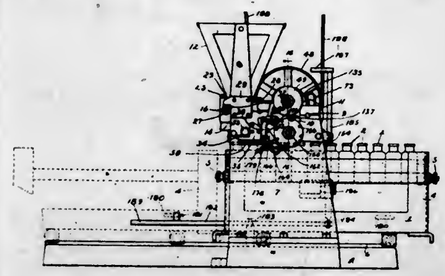
1,422,859. BODY FOR FARM TRUCKS. EDWARD R. HEWITT, Midvale, and JOHN H. BLAKE, Jr., East Orange, N. J., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed June 24, 1921. Serial No. 480,210. 3 Claims. (Cl. 296—14.)



1. In a farm body for motor vehicles an all-steel bed, steel sides hinged thereto, unitary triangular steel braces pivotally supported at the sides of the bed and adapted to engage the sides of the body to support them in vertical position to form a box body, said braces being movable independently of the sides to a point below the hinge line to permit the sides to swing downwardly and outwardly into line with the bed to form a platform body, and bolsters secured at the side of the bed to support the sides in lowered position and house the braces when in lowered position.

1,422,860. PILL-COUNTER AND BOTTLE-FILLING MACHINE. WILFORD A. HILL, Waltham, Mass., assignor to B. O. & G. C. Wilson, Inc., Boston, Mass., a Corporation of Massachusetts. Filed June 3, 1921. Serial No. 474,819. 21 Claims. (Cl. 226—2.)

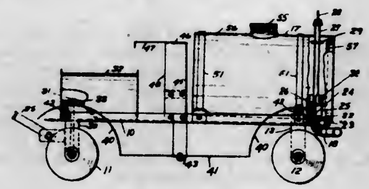
1. A machine of the class described comprising a support for a series of rows of containers, means to feed articles into each container of a row, and means acting after each container of said row has received a predetermined number of articles for moving said support to present a succeeding row of containers to said feeding means.



1,422,861. LIQUID COATING COMPOSITION. CARL D. HOCKER, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 11, 1919. Serial No. 344,177. 6 Claims. (Cl. 134—26.)

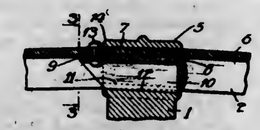
3. A liquid coating composition resulting from a combination comprising glycerine, congo copal, free fatty acid and castor oil.

1,422,862. TOY SPRINKLER. EMIL G. HOFMANN, Chicago, Ill. Filed Feb. 28, 1920. Serial No. 362,129. 2 Claims. (Cl. 46—48.)



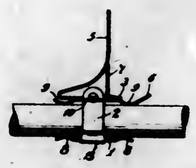
1. In a toy sprinkler, a frame, wheels supporting the rear end of said frame, a pair of wheels for the front end of said frame, an axle connecting said pair of wheels, a bolster supported by said axle, and supporting the front end of said frame, a casing on the front end of said frame, a bracket having one end fixed to the frame within said casing and having the other end fixed to the front end of said casing a material distance above said frame, and a bolster pin extending through said bracket, said bolster, and said axle.

1,422,863. BRAKE BEAM. CHARLES F. HUNTOON, Chicago, Ill. Filed July 11, 1921. Serial No. 483,835. 5 Claims. (Cl. 188—231.)



5. A brake beam comprising compression and tension members secured together at their ends, a central strut, said compression member being in the form of a channel bar, a wedge between the web of the compression member and the strut, said strut having an inclined surface for coacting with the wedge, and means for securing the wedge to the compression member.

1,422,864. TUBE COMPRESSOR. FRANK S. HYATT, Brooklyn, N. Y. Filed Nov. 5, 1920. Serial No. 422,013. 2 Claims. (Cl. 251—5.)



1. In a sheet metal compression clamp of the character described, the combination of two separate oblong pieces of sheet metal disposed transversely to one another, one of said pieces being a flat piece of sheet metal constituting the lower clamping member and located wholly below the tube to be clamped, the other piece being longer than the first and having its ends bent up to form the ears for the cam operating upon a separate upper clamping member and means for securing the two sheet metal pieces together one upon the other, to form a sheet metal base of double thickness.

1,422,865. BURGLAR GUN. FRANCIS S. JOBSON, Mentone, Ala. Filed Feb. 18, 1922. Serial No. 537,572. 3 Claims. (Cl. 89—27.)



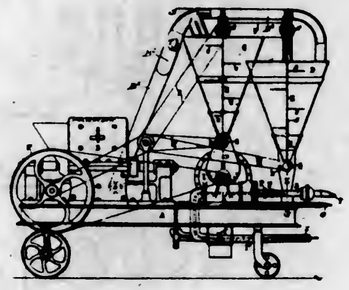
3. A burglar gun including a base, a barrel and a firing pin mounted on said base, a standard, a spring-pressed plunger mounted thereon and operatively connected with the firing pin, said plunger having a notch formed therein, a lever pivoted to the rear of said standard and normally engaging said notch, a bell-crank lever pivoted at one side of the standard and normally engaging the first-named lever, and a latch for locking said first-named lever in its plunger engaging position.

1,422,866. COTTON DYES. HEINRICH JORDAN, Leverkusen, near Cologne, Germany, assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 27, 1919. Serial No. 326,984. 2 Claims. (Cl. 8—1.)

1. The new trisazodyes being derived from 1.4-diaminonaphthalene sulfonic acid, naphthylamin solfonic acid a naphthol compound and resorcin, which are after being dried and pulverized in the shape of their salts with alkali metals dark powders soluble in water with a bluish coloration, and being soluble in concentrated sulfuric acid generally with a greenish coloration, dyeing cotton pure greenish-blue which is rendered fast to washing by an aftertreatment with formic aldehyde; being broken up by treatment with stannous chlorid and hydrochloric acid into a 1.4-naphtholenediamin sulfonic acid, an aminooxynaphthalene and 1.3-dioxy-4-aminobenzene, substantially as described.

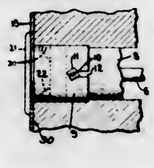
1,422,867. APPARATUS FOR FEEDING FUEL TO FURNACES. VLADIMIR KARYCHEFF and PRINCE EUGENE GAGARIN, Paris, France. Filed Feb. 16, 1922. Serial No. 537,112. 5 Claims. (Cl. 110—104.)

4. The combination with a wheel supported truck, of a fuel pulverising mill mounted on said truck, an injector pipe carried by said truck and provided at its forward end with a nozzle, a combined suction and pressure fan mounted on said truck and having means connecting its outlet to said injector pipe, a chute carried by said truck and connected to the inlet of said fan, a hopper connected to said chute, means permitting air to enter said



chute, and a conveyor supported by the truck and arranged to convey powdered fuel from the pulverizing mill to said hopper.

1,422,868. MOUNTING FOR DRAFT REGULATORS. FREDERICK C. KASCH and GEORGE F. NEFF, Akron, Ohio. Filed Dec. 3, 1921. Serial No. 519,608. 6 Claims. (Cl. 126—295.)



1. A draft regulator comprising a damper, a rotary shaft for the damper, a tubular housing to receive the shaft, a longitudinally adjustable extension on said housing, means to secure said extension in varying positions of adjustment so as to be flush with a wall, a cover plate on the end of the extension, spiral grooves in the cover plate and pins on the extension adapted to be received in the grooves, whereby the cover plate can be rotated into positions at varying distances from the end of the extension.

1,422,869. ESTERS OF DIOXYDIETHYLSULPHIDE AND PROCESS OF MAKING SAME. GEORG KRÄNZLEIN, Sindlingen, near Hochst-on-Main, and MARTIN CORELL, Hochst-on-Main, Germany, assignors to Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-Main, Germany, a Corporation of Germany. Filed July 2, 1921. Serial No. 482,151. 2 Claims. (Cl. 260—106.)

2. As new products, the compounds of the general formula:

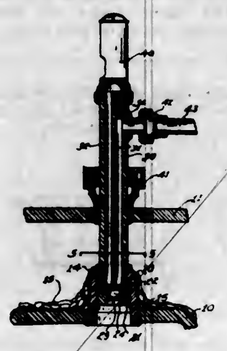
$$S\begin{matrix}\diagup CH_2.CH_2O.R\\ \diagdown CH_2.CH_2O.R\end{matrix}$$

wherein "R" stands for any inorganic or organic acid residues.

1,422,870. LOW-WATER ALARM. CHARLES A. KOTHE, Galion, Ohio. Filed Feb. 21, 1921. Serial No. 446,922. 23 Claims. (Cl. 122—504.1.)

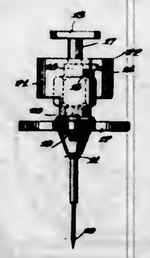
14. In a device of the class described, a steam boiler, a fusible plate adjacent the crown sheet thereof, pipe connections communicating with two adjacent points on the face of said plate and sealed thereby, the other ends of said

pipe connections being connected respectively with the steam in said boiler and an alarm, the central portions of



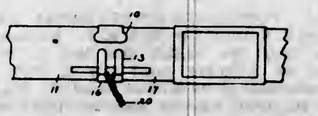
the underside of said plate being unsupported to allow warping of the plate for passage of steam to said alarm slightly before the plate melts.

1,422,871. ATTACHMENT FOR CARBURETORS. LEO F. LIEBER, Sidney, Iowa. Filed June 4, 1919. Serial No. 301,679. 2 Claims. (Cl. 261—39.)



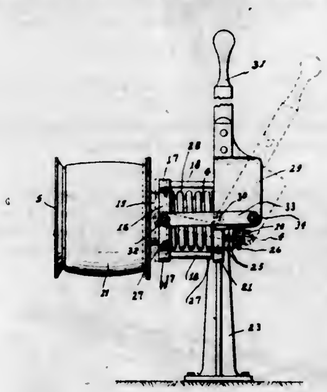
2. A carburetor having a fuel valve provided with a stem, a cap piece for the carburetor in which the stem has a threaded connection whereby to reciprocate the stem when it is rotated, an arm secured to the stem and outstanding therefrom above the cap, a thermostat surrounding the stem above the cap having an angular extension at one end anchored to the cap and having its opposite end provided with an L-shaped recess forming an upstanding lug, said arm outstanding from the stem having its outer end projecting into the recess and provided with an aperture to receive the said lug as described.

1,422,872. WATCH-CHAIN FASTENER. JOHN LOMAN, Bristol, Conn. Filed Feb. 23, 1922. Serial No. 538,820. 1 Claim. (Cl. 24—3.)



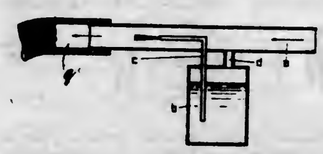
A watch chain fastener formed of a single piece of metal having one wall substantially full and unbroken, having the opposite wall of skeleton form, said walls being separated by a belt receiving space and connected at the top and bottom by short connecting pieces, a pair of spring fingers in spaced relation for receiving a watch chain guard and chain end connected to said guard, and said fingers being in the form of extensions of the border wall on one side of said belt receiving space.

1,422,873. CLUTCH PULLEY. JOHN F. MCNALLY and RALPH A. BRADLEY, Emporia, Kans. Filed Jan. 26, 1921. Serial No. 440,071. 2 Claims. (Cl. 192—99.)



1. The combination with an engine shaft, and a sleeve secured thereon, said sleeve being provided with a clutch head at its inner end, of a pulley fitted about the sleeve and having a clutch chamber in one end receiving and adapted to engage the said clutch head, a shifter frame slidably fitted upon the sleeve and bearing against the outer end of the pulley, a second frame fitted about the outer end of the sleeve, means for holding the said second frame in a fixed position, a lever head pivoted to the said second frame, a link pivotally attached at its inner end to the shifter frame and having its outer end pivoted to the lever head eccentric to the pivotal connection between the said head and the said second frame, and a spring coiled around the sleeve between the shifter frame and the said second frame.

1,422,874. ART OF EXTRACTING COAL IN MINES. HERMAN MACK, Hamm, Germany. Filed Oct. 3, 1917. Serial No. 194,519. 6 Claims. (Cl. 262—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

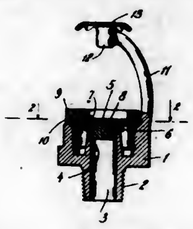


1. A process of extracting coal, consisting in introducing a moistened compressed gaseous fluid into a bore hole of the coal bed.

1,422,875. SPRINKLER HEAD. THOMAS J. MADIGAN, Brooklyn, N. Y., assignor of one-fourth to James O. Schwank, New York, N. Y. Filed Apr. 7, 1920. Serial No. 371,907. 2 Claims. (Cl. 169—41.)

2. A sprinkler head comprising, in combination, a threaded fitting, a collar threaded to the interior thereof and

readily removable therefrom for renewals, a plug closing the water passage of said fitting, a low fusing disc there-



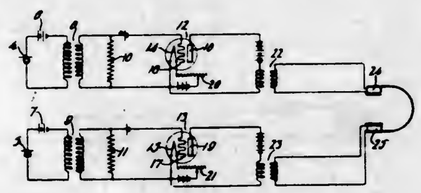
over, said collar engaging the edge of said disc and holding said plug to its seat over the water passage.

1,422,876. DETERMINATION OF WAVE-ENERGY DIRECTION. MAX MASON, New London, Conn., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed June 25, 1919. Serial No. 306,683½. 8 Claims. (Cl. 181—26.)



1. In apparatus of the character described, the combination of sound receivers disposed in a row, divided into two sections of a series of receivers each, means for bodily turning the row of receivers, a listening device having two ear pieces, one for each ear of the observer, and energy collecting means having branching tributary paths between the receivers of each section and the corresponding ear piece of the listening device, the several paths all having the same time of energy travel from the receivers to the listening device, substantially as described.

1,422,877. ACOUSTICAL AID FOR DEAF PERSONS. JOSEPH P. MAXFIELD, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 2, 1920. Serial No. 348,868. 5 Claims. (Cl. 179—107.)



3. A binaural system for deaf persons comprising a pair of microphones having highly damped vibrating systems, a corresponding pair of telephone receivers, a separate amplifying circuit connecting each of said microphones with the corresponding receiver, and means for adjusting the degree of amplification in said circuits.

1,422,878. RETORT. FLOYD J. METZGER, New York, N. Y., assignor to Air Reduction Company, New York, N. Y., a Corporation of New York. Filed Oct. 11, 1917. Serial No. 195,951. 2 Claims. (Cl. 263—41.)

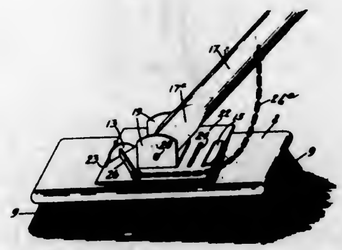
1. A retort adapted for use in the manufacture of alkali metal cyanide and to be subjected to the action of oxidising gases at high temperature, the retort comprising a body of ferrous metal which is corrodible by said gases and a protecting skin coating applied to the outer surface of the body and consisting of a base metal alloy which resists the oxidising action of said gases.

1,422,879. ASH TRAY AND RECEPTACLE. SIEGFRIED MEYER, New York, N. Y. Filed Aug. 6, 1920. Serial No. 401,699. 1 Claim. (Cl. 131—51.)



A device of the class described comprising a base plate, a horizontal stem rigid to and extending rigidly therefrom, uprights extending in spaced apart relation from said stem, resilient heads on said uprights, and a tray or receptacle having hollow elements to removably engage over said heads.

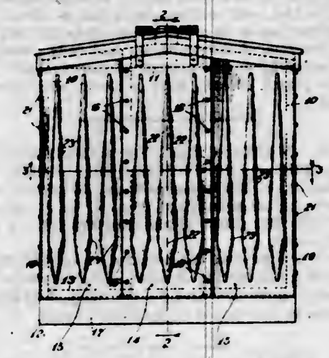
1,422,880. MECHANICAL CONNECTOR. WILLIAM HERMAN MICHAELSEN, Mount Vernon, N. Y. Filed May 8, 1919. Serial No. 295,741. 2 Claims. (Cl. 306—23.)



1. A device of the character described comprising a cleat made of sheet metal and having the form of a flat plate, said cleat being provided with an upturned lip and with an extending portion formed into a hook, a connector plate provided with a slot for receiving said upturned lip and with another slot for receiving said hook, a fastening member for detachably engaging said lip and an adjacent portion of said connector in order to prevent the separation of said connector plate from said cleat, and a handle mounted upon said connector plate by means of a flexible connection.

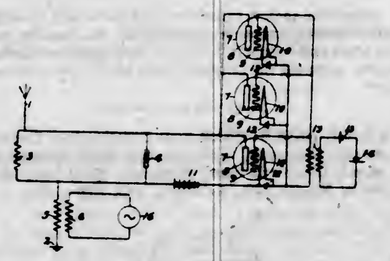
1,422,881. CORRUGATED-SHEET-METAL CAR END. WALTER P. MURPHY, New York, N. Y. Division of application Serial No. 82,423, filed Mar. 6, 1916 (now Patent No. 1,309,484, dated July 8, 1919), the copendency of its division Serial No. 804,429, filed June 10, 1919, renewed May 28, 1921, Serial No. 473,318. This application filed Nov. 15, 1920. Serial No. 424,124. 15 Claims. (Cl. 105—410.)

9. A sheet metal end structure for a railway car formed with a plurality of groups of substantially parallel corrugations each of which corrugations is of maximum depth at a point intermediate its ends and tapers therefrom toward its ends, the corrugations of each



group being of substantially uniform configuration but those of one group being deeper than those of another group.

1,422,882. RADIO TRANSMISSION. HAROLD W. NICHOLS, Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Sept. 1, 1915, Serial No. 48,452. Renewed Jan. 2, 1920. Serial No. 348,880½. 3 Claims. (Cl. 250—19.)



1. In a radio transmission system, an antenna, a source of high-frequency power supplying said antenna, a thermionic discharge path arranged to carry a fraction of the power for said antenna, a source of waves of signaling frequencies, and means for varying the power carried over said thermionic path in accordance with said waves.

1,422,883. FRUIT-JAR COVER. WILLIAM ROBERT NIPPER, Grants Pass, Oreg. Filed Nov. 10, 1921. Serial No. 514,234. 5 Claims. (Cl. 215—81.)

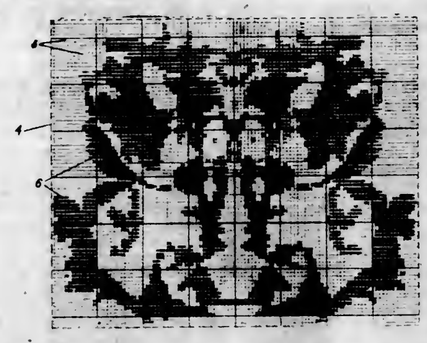


3. The combination with a fruit jar cover of an attachment therefor, said attachment comprising a body portion having a flange at each end thereof, and fastening means carried by said cover for detachably securing said attachment to said cover to depend from the under side of said cover.

1,422,884. PROCESS OF MANUFACTURE OF SPONGE RUBBER. ANDREW JOHN OSTBERG and ALBERT KENNY, Richmond, near Melbourne, Victoria, Australia, assignors to The Standard Rubber Works Proprietary Limited, Melbourne, Victoria, Australia, a Corporation of Victoria. Filed Aug. 18, 1920. Serial No. 404,340. 1 Claim. (Cl. 18—53.)

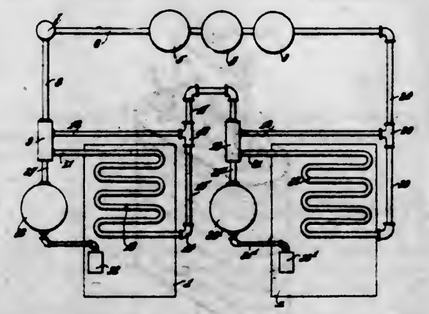
A process for the manufacture of a spongy rubber material comprising mixing together 15 lbs. Pará rubber, 15 lbs. reclaimed rubber, 13 lbs. sulphur, 9 lbs. zinc white, 1½ lbs. carbonate of magnesia, then adding a volatile mineral oil to soften the rubber ingredient, and vulcanizing the same.

1,422,885. METHOD OF MANUFACTURING DESIGN CARDS. HERTA OTTOLENGHI-WEDEKIND, Genova, Italy. Filed Mar. 22, 1922. Serial No. 545,878. 1 Claim. (Cl. 41—17.)



In a method of forming designs which consists in producing a portion of a design on sized coordinate paper, completing the design by folding said paper upon itself and then recording said design on a second sheet of coordinate paper by means of straight lines corresponding to the pattern of said design to provide on the second sheet a record of the design for reproduction on any article upon which coordinate squares have been indicated, by means of the said straight lines, said lines by means of various characteristics indicating the various colors.

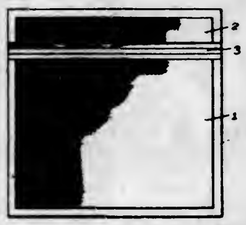
1,422,886. TEMPERATURE-CONTROLLING SYSTEM. PERCY R. OWENS, Mount Kisco, N. Y. Filed Feb. 27, 1920. Serial No. 361,687. 2 Claims. (Cl. 62—6.)



2. In a controlling system, the combination of a circulating system for refrigerating fluid, including a coil in a refrigerator and having inlet and exit pipes, a valve chamber included in said inlet pipe, a bypass pipe

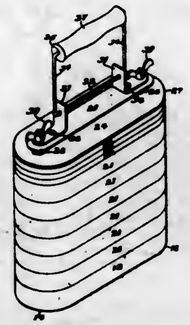
leading from said valve chamber, an automatic bypass valve in said chamber adapted to be moved to vary the relative extent of the openings of said inlet pipe and said bypass pipe, a thermostatic device within the refrigerator and connections between the same and said by pass valve adapted to move the latter in one direction or the other as the temperature in the refrigerator rises or falls to simultaneously vary the extent of the openings of said inlet pipe and of said bypass pipe into said valve chamber, a second coil in a refrigerator, said bypass pipe leading into said coil, a valve chamber in said bypass pipe adjacent said second coil, and another bypass pipe communicating with said valve chamber, an automatic bypass valve in said second chamber adapted to vary the relative extent of the openings of said pipe leading into said second coil and of the bypass pipe, and means comprising a thermostatic device within said second refrigerator and connections between the same and said bypass valve, whereby the relative extent of the openings of the said two pipes leading from said valve chamber are simultaneously varied as the temperature in the refrigerator rises or falls.

1,422,887. MAT. RAYMOND H. PHILLIPS, Trenton, N. J. Filed Dec. 12, 1919. Serial No. 344,286. 3 Claims. (Cl. 280—169.)



1. A mat for protecting the running board and dust guard of an automobile beneath a door opening comprising a rubber section to be placed on the running board and provided with a roughened top surface, and a second rubber section to be placed in contact with the dust guard, said second section being integrally connected to said first section by a thin strip of rubber joining said first section near its base.

1,422,888. EXERCISING DEVICE. LESLIE C. REEVES, Pitman, and MORTIMER A. WEBB, Jr., Camden, N. J. Filed Dec. 21, 1920. Serial No. 432,239. 5 Claims. (Cl. 46—69.)

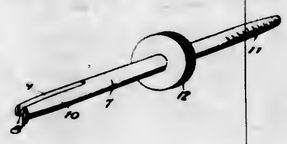


1. A portable exercising device having an elongated body portion with substantially parallel sides merging into curved end surfaces and being of greater length than width; and a handle extending directly upward from the top of said body portion and having a connection with the body portion including a pivot bearing allowing the handle to swing relatively to the body portion in the direction of the width of said body portion, said handle including a grip extending approximately parallel with the length of said body portion; substantially as described.

1,422,889. MANUFACTURE OF 9.10-DIHALOGENANTHRACENE-β-MONOSULPHONIC ACID. KARL SCHIRMACHER, Höchst-on-the-Main, Germany, assignor to Hermann A. Metz, New York, N. Y., a Corporation. Filed Oct. 23, 1920. Serial No. 419,157. 4 Claims. (Cl. 23—24.)

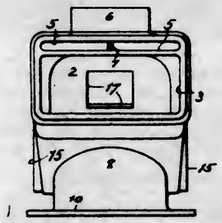
1. As a new process, the preparation of 9.10-dihalogenanthracene-β-monosulphonic acids, which consists in causing fuming sulphuric acid to act upon 9.10-dihalogenanthracene in presence of an indifferent agent.

1,422,890. VALVE TOOL. CHARLES DINES SEVIER and FRANK PETER ECKROAT, Fort Collins, Colo. Filed Jan. 19, 1921. Serial No. 438,491. 1 Claim. (Cl. 81—3.)



In a valve tool, a cylindrical body, one end of said body being tapered and screw-threaded on the tapered portion, the other end being bifurcated to form resilient fingers, and a grip mounted on the body, as and for the purposes set forth.

1,422,891. GAS BURNER FOR FURNACES. CHESTER L. SHARP, Lancaster, Ohio; Georgia Sharp administratrix of said Chester L. Sharp, deceased. Filed June 10, 1921. Serial No. 476,629. 5 Claims. (Cl. 158—109.)

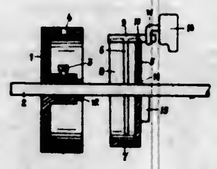


2. A gas burner of the type specified having a gas inlet portion formed with an inclined valve seat, an inclined valve to rest on said seat, means for manipulating said valve, and arms projecting from said valve and engaging a portion of the burner body adjacent to the lower portion of the valve, whereby when the valve is raised it will leave all portions of the seat.

1,422,892. DEVICE FOR GRADUATING LINES ON RULED PAPER. BARNETT SHATS, Buenos Aires, Argentina. Filed Jan. 21, 1921. Serial No. 438,970. 4 Claims. (Cl. 197—123.)

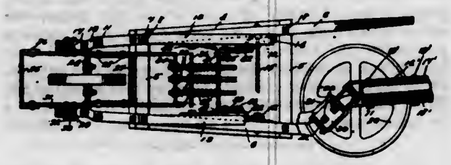
1. In a typewriting machine, a platen roll shaft, a hollow wheel fixed thereto and adapted to be turned by the operator for adjusting the platen roll, a second wheel

rotatable about said shaft and having a portion extending within the first mentioned hollow wheel, the second mentioned wheel being provided with integral resilient segments, a lever pivotally mounted on the second mentioned wheel and extending between the ends of said segments, an



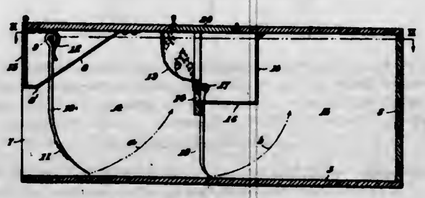
operating member for swinging said lever about its pivot in one direction to cause said segments to separate and engage the inner surface of said hollow wheel, and means fixed to said second wheel and adapted to engage a spring for moving the second wheel in the opposite direction.

1,422,893. WHEELBARROW. WILLIAM E. SHOWALTER, Huntingburg, Ind. Filed June 10, 1919. Serial No. 303,148. 3 Claims. (Cl. 280—52.)



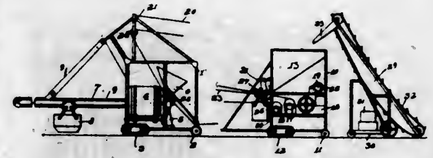
1. A wheel-barrow comprising a body, guides carried by said body, a sliding frame supported by said guides and capable of rearward and vertical movement with respect to said body, spring means associated with said frame in such a way as to be placed under compression by the rearward and vertical movement thereof, and a supporting wheel carried by the frame and movable therewith.

1,422,894. ANIMAL TRAP. ALEKSANDER SKUBINSKI, Los Angeles, Calif. Filed July 28, 1920. Serial No. 399,566. 3 Claims. (Cl. 43—66.)



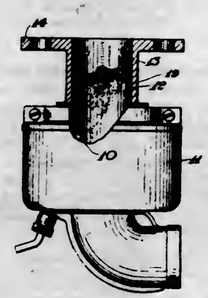
1. A trap of the class described including a box-like casing having a rear door and a front entrance opening, a partition for dividing the box into a plurality of compartments, closing means for the main compartment, comprising a plurality of pivotally mounted spring pressed fingers curved at the lower ends and provided with a series of teeth to prevent backward movement of the animal.

1,422,895. ROAD-BUILDING APPARATUS. CARL A. SMITH, Defiance, Ohio. Filed June 9, 1920. Serial No. 387,648. 1 Claim. (Cl. 214—1.)



Road building apparatus including movably supported mixing mechanism, a bin structure movable relative to the mixing mechanism to position for receiving materials to be mixed, a track cable connecting the bin structure to the mixing mechanism and adjustable in length so as to be substantially taut when the mixing mechanism and the bin structure are at any distances apart, a bucket movably supported by said cable, means for directing materials into the bucket from the bin structure, and means movable with the bin structure for shifting the bucket to convey material from the bin structure to the mixing mechanism, and means on the bin structure for engaging and supporting the bucket while the track cable is slack during the movement of the bin structure relative to the mixing mechanism.

1,422,896. HEATING COIL FOR CARBURETORS. EDGAR M. SORENG, Milwaukee, Wis., assignor to Briggs & Stratton Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 7, 1918. Serial No. 210,692. 5 Claims. (Cl. 219—38.)

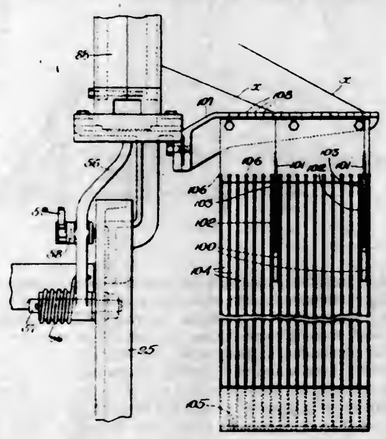


1. In a carburetor, a throttle valve, and a helix of resistance wire secured on one face thereof forming an exposed electric heating coil.

1,422,897. AUTOMATIC FILLING-REPLENISHING LOOM. WILLIAM S. SOUTHWICK, Clinton, Mass., assignor, by mesne assignments, to Wickwire Spencer Steel Corporation, a Corporation of Massachusetts. Filed July 10, 1917. Serial No. 179,677. 11 Claims. (Cl. 139—85.)

1. The combination with a loom, a shuttle, a filling magazine and a plurality of filling units therein, and means arranged to transfer said filling units, one by one, from said magazine to said shuttle, of a plurality of weights and guides therefor, said weights being movable

up and down independently of each other when the filling ends are attached respectively to them, said weights being



arranged to take up slack from said filling ends and to yield up such slack in consequence of the first traverse of each filling unit through the shed.

1,422,898. AUTOMATIC SWITCH FOR ELECTRIC HEATING APPLIANCES. BENJAMIN GEORGE CLAUDE STEPHENS, Auckland, New Zealand. Filed Feb. 14, 1920. Serial No. 358,792. 2 Claims. (Cl. 200—138.)



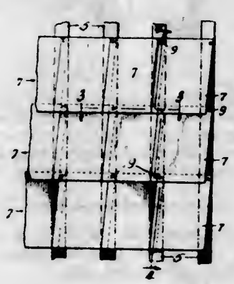
1. In automatic switches for electric heating appliances, the combination with a bimetallic thermostatic strip arranged within the heating influence of an electric heating circuit embodying a pair of terminals, a switch constructed to bridge such terminals and held in position against the action of a spring normally forcing it on the terminals, and releasing means for the said switch adapted to be engaged and operated by the movement of the bi-metallic strip through its expansion beyond a predetermined extent, substantially as specified.

1,422,899. TIRE. DANIEL L. STOUCH, York, Pa. Filed Apr. 13, 1922. Serial No. 552,269. 3 Claims. (Cl. 152—1.)



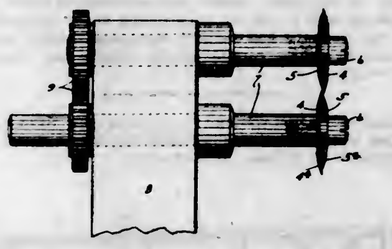
2. In a device of the character described, a casing having a crown portion, said crown portion being provided with an inwardly extending portion, fabric reenforcing arranged in said casing and extending through said inwardly extending portion, and a rib formed on said inwardly extending portion and projecting toward the base of the tire, the lower end of said rib being reduced to form shoulders adapted to engage the inner edges and top of the tire beads when the tire is in position.

1,422,900. ASH HOPPER. ARTHUR P. STRONG, Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Oct. 6, 1921. Serial No. 505,703. 3 Claims. (Cl. 189—3.)



1. A tank wall, comprising plate supporting beams, plates arranged inside of said beams and closing the spaces between the same, and bolts securing the plates to said beams, the heads of the bolts being inside and overlapped and covered by the marginal portions of adjacent plates for protecting the bolts from contact with the material packed against the inside of said wall, said plates having recesses to receive and accommodate the bolt heads.

1,422,901. CUTTING DEVICE FOR LEATHER SOLES. GEORGE OAVILL TERRY, Minneapolis, Minn., assignor to Economy Shoe Machine Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 16, 1920. Serial No. 403,647. 8 Claims. (Cl. 164—70.)

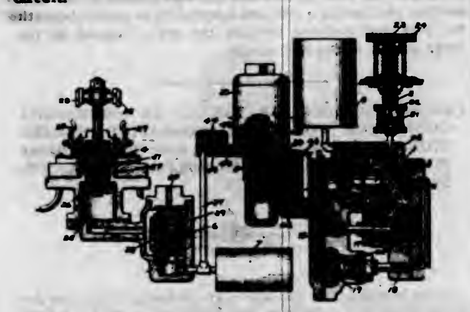


6. A cutting wheel comprising two concentrically arranged disks having contacting plane surfaces and outwardly disposed beveled and radial grooved surfaces, the wheels being of different diameter.

1,422,902. STARTING AND UNLOADING DEVICE. FRANK B. THOMAS, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Nov. 13, 1919. Serial No. 337,717. 6 Claims. (Cl. 230—24.)

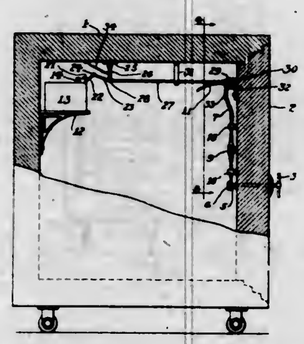
1. In a starting and unloading apparatus for an internal combustion engine driven fluid compressor, the combination with a motor for starting the engine, of a device for unloading the compressor, a switch device for controlling the motor circuit, and means for operating said device to effect the unloading of the compressor and

for then operating said switch device to close the motor circuit.



5. The combination with a motor for starting an internal combustion engine and a fluid compressor adapted to be driven by said engine, of a device for unloading the compressor, a valve mechanism operated by variations in fluid pressure for effecting the operation of said unloading device, a fluid pressure operated switch device for controlling the motor circuit, a timing reservoir, a valve device operated according to the pressure in said timing reservoir for supplying and releasing fluid under pressure to and from said switch device, and magnet controlled valve means for varying the fluid pressure on said valve mechanism and in said timing reservoir.

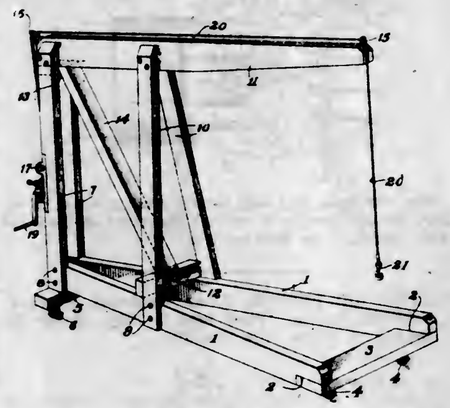
1,422,903. DEVICE FOR PROTECTING SAFES OR OTHER ENCLOSURES. GERALD W. TIFFANY, New York, N. Y., assignor of one-half to Norman J. Fitzsimmons, New York, N. Y. Filed May 28, 1921. Serial No. 473,297. 3 Claims. (Cl. 109—6.)



1. A device of the kind described comprising in combination an enclosure to be protected, a door giving access thereto, a container within said enclosure holding a noxious substance, an opening in said container, a cap for said opening, means tending to force said cap out of said opening, a catch for retaining said cap in said opening, and means connected to said catch and adapted to release the same when said door is forced open.

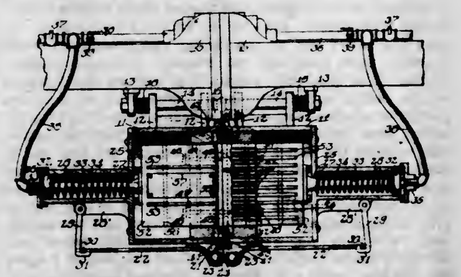
1,422,904. HOISTING APPARATUS. LAWRENCE T. TUCKER, Pollock, Mo. Filed Apr. 20, 1921. Serial No. 462,858. 1 Claim. (Cl. 212—142.)

In a hoisting apparatus, the combination of a pair of horizontal base beams, a pair of spaced, parallel, rear standards secured to said base beams, a pair of inclined front standards secured to said base beams near their center, a horizontal top beam secured between the upper ends of all of said standards, a block secured against the under face of said top beam and between said rear standards, a horizontal cross piece secured to the top of said base beams against the rear edges of the front standards,



an inclined brace secured at its lower end upon the top of said cross piece and secured against the under face of the top beam in engagement with the front face of said block, and hoisting means carried by the rear standards and by the top beam, substantially as shown and described.

1,422,905. ELECTRIC COUPLING. CHARLES H. TOMLINSON, Mansfield, Ohio, assignor, by mesne assignments, to The Tomlinson Coupler Company, Mansfield, Ohio, a Corporation of Ohio. Filed June 22, 1912, Serial No. 705,149. Renewed Nov. 15, 1920. Serial No. 424,253. 26 Claims. (Cl. 173—332.)

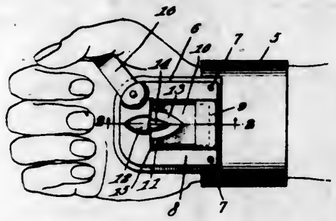


26. In an electrical coupling mechanism for cars, the combination of a casing adapted to be supported upon the end of a car, a movable contact carrier mounted in a normally inoperative position in said casing, a movable member operatively connected to said carrier, contact fingers mounted in said casing and connected to the respective train line circuits, and means for actuating said movable member to shift the contact carrier to its operative position to establish electrical connection with the contacts of a counterpart coupling mechanism on an adjacent car.

1,422,906. CORN-HUSKING HOOK. ALFRED D. WAGNER, Eureka, Kans. Filed Apr. 15, 1921. Serial No. 461,502. 3 Claims. (Cl. 130—4.)

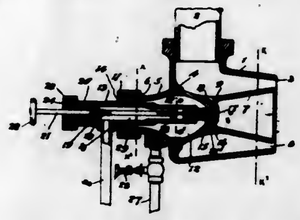
1. A husking implement including, a support, a body portion having an enlargement formed at one end thereof and having its opposite end depressed and contacting with

the support to provide a space between the support and body portion, a husking blade adapted to be positioned



within the space, and said husking blade adapted to engage the enlargement to restrict movement of the blade with respect to the body portion.

1,422,907. OIL BURNER. JESSE WILKINSON, Winnipeg, Manitoba, Canada. Filed June 1, 1920. Serial No. 385,674. 1 Claim. (Cl. 158—76.)



A burner comprising a hollow body, having right angularly related inlet and outlet openings and provided with a threaded aperture in line with the outlet, a hollow casing having the intermediate portion thereof threadedly engaged in said aperture and the forward portion thereof projecting into the body, said casing being formed with a flaring mouthpiece, the tip of which terminates at or near the outlet end of the casing and provides, in conjunction with said end, an annular discharge passage leading from the body, a partition wall at the juncture of the casing and mouthpiece formed with an aperture providing a valve seat, a hollow barrel projecting into the casing from the rear end thereof, an adjustable connection between the barrel and casing closing the rear end of the latter and permitting the barrel to be adjusted toward or away from said valve seat, a detachable nozzle carried by the inner end of the barrel and adapted to said seat to control communication between the casing and the mouthpiece, a hollow rod extending through the barrel and having a needle valve at its inner end adapted to a valve seat formed in the tip of the nozzle, and means for supplying oil to the barrel and means for supplying air to the casing.

1,422,908. SEAT COVER. EDWARD WITTCOFF, St. Louis, Mo. Filed Aug. 22, 1921. Serial No. 494,336. 1 Claim. (Cl. 155—182.)



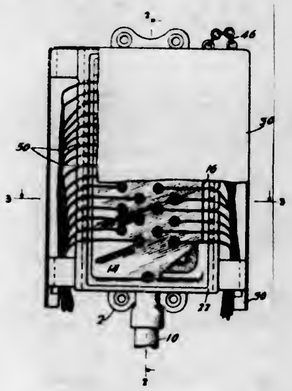
A cover for auto seats comprising a back section and a seat section, the lower margin of the back section being provided with eyelets, and the rear side and front margins of the seat section being provided with eyelets, and a lacing string inserted through the eyelets formed in the lower margin of the back section and the rear margin of the seat section, and having a free end adapted to be passed beneath the seat and inserted through the eyelet formed in the front margin of the seat section.

1,422,909. METHOD OF TAKING AN ORCHESTRA CONDUCTOR FOR CINEMATOGRAPHIC EXHIBITION. EUGEN WOLFF, Tempelhof, near Berlin, Germany Filed Mar. 15, 1920. Serial No. 366,171. 1 Claim. (Cl. 88—16.)



In an arrangement for taking an orchestra conductor for cinematographic exhibition, the combination with a taking apparatus of a reflector turned towards the conductor's front to reflect front representations of him into the said taking apparatus, a reflector turned towards the conductor's back, a third reflector turned towards the second said reflector to transmit the back representations to the apparatus, the lower edge of such third reflector separating the two series of images from one another, substantially as set forth.

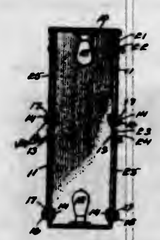
1,422,910. TERMINAL BOX FOR ELECTRIC CABLES. CHARLES R. YOUNG, Bloomfield, and HARRY N. VAN DEUSEN, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 23, 1919. Serial No. 272,610. 15 Claims. (Cl. 247—7.)



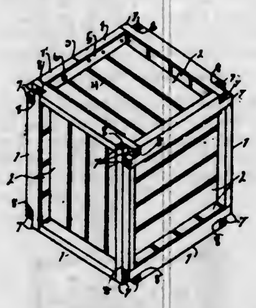
1. A cable terminal-box comprising a rear wall, two opposite end walls extending forwardly from said rear wall, a cover for the box forming a detachable front wall therefor and having rearwardly extending wings arranged to form the side walls of the box, and a pair of partitions connecting said end walls and extending forwardly from said rear wall substantially to the plane of the front edges of said end walls, whereby the box is divided transversely into a central compartment having a removable front wall and two lateral compartments each having a removable front wall and a removable side wall.

1,422,911. SIGN CARRIER. JAMES D. AUSTIN and THOMAS ROBERTS, Harrisburg, Ill. Filed Dec. 18, 1921. Serial No. 522,131. 2 Claims. (Cl. 40—142.)

1. In a device of the class described, a supporting structure, a longitudinally grooved rod mounted for oscillation relative to said supporting structure, and adapted to receive one edge of a character bearing member, and a movable holding device carried by said supporting structure and engageable with another edge of said character bearing member.

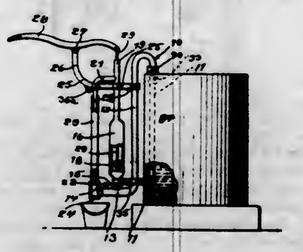


1,422,912. COLLAPSIBLE BOX. ELIAS M. AVERILL, Sparta, Mich. Filed Mar. 16, 1920. Serial No. 366,411. 3 Claims. (Cl. 217—12.)



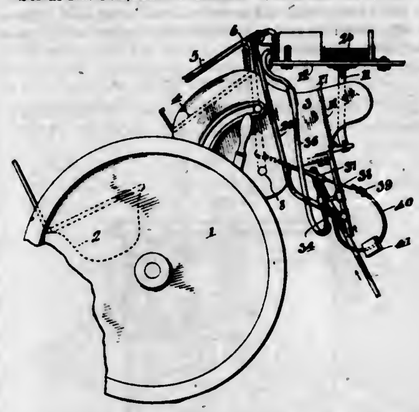
1. In a collapsible box construction, side and end panels, cleats secured to the outer sides of the panels at opposite ends thereof, said cleats made thin and broad, each end of each cleat cut away uniformly one half the width laterally and the full width longitudinally and so formed that the ends of the cleats may be interlocked at the corners of the box and assemble a rigidly constructed collapsible box.

1,422,913. DISPENSING APPARATUS. ERNEST P. BAKER, Manson, Iowa. Filed Mar. 12, 1921. Serial No. 451,924. 4 Claims. (Cl. 221—63.)



1. In a device of the type described, a siphon embodying two legs one of which embodies a discharge nozzle, a pump associated with said leg and embodying a discharge nozzle, and means for directing the fluid from the discharge nozzle of said pump into the discharge nozzle of the siphon.

1,422,914. AUTOMATIC FEEDER FOR PRESSES. PERRY W. BARKER, Youngstown, Ohio. Filed Sept. 22, 1921. Serial No. 502,415. 7 Claims. (Cl. 101—419.)



1. In a slip sheet feeding device for printing presses, the combination of an oscillating member, pick up devices carried by said member for transferring the printed sheets to a table, a pick up device for the slip sheets mounted for rotary and longitudinal adjustment on said member for transferring the slip sheets to said table, and means for automatically rendering the two pick up devices alternately operative.

1,422,915. VENTILATED AUTOMOBILE DRIVER'S SEAT. DAVID BENSON and GEORGE K. BRUCE, Des Moines, Iowa. Filed Oct. 26, 1920. Serial No. 419,595. 1 Claim. (Cl. 155—131.)



In a ventilated automobile-driver's seat having a frame formed of side members and adjustable connecting means, each connecting means comprising a tube entering one side member laterally, a bolt screwed in said tube and extending through the other side member laterally, and a nut on said bolt between the latter side member and the adjacent end of the tube, said frame being adapted to support a fabric cover in embracing relation thereon, said cover being adapted to be stretched laterally by said connecting means.

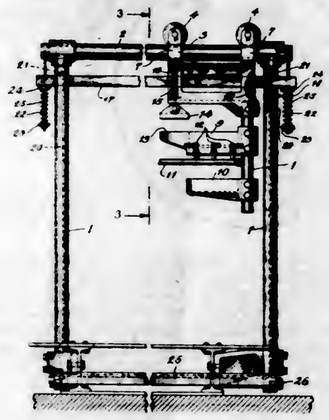
1,422,916. SCREEN GASKET. WILLIAM H. BETTS, Portland, Oreg. Filed Mar. 19, 1921. Serial No. 453,569. 1 Claim. (Cl. 48—180.)



A gasket adapted to be placed between the carbureter and the intake manifold flange of an internal combustion engine, consisting of two thicknesses of backing material

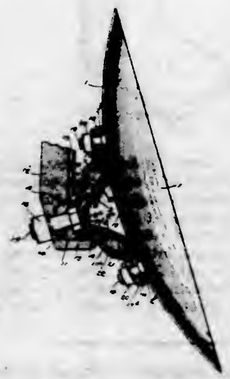
of the same general shape and perforations as are the flanges and having secured between same a flat screen facing the carbureter and a bulging screen facing the manifold, and having mounted across the center of said screens a bridge member, and a rotatable fan mounted on said bridge between said screens.

1,422,917. SOLDERING DEVICE. AXEL W. BJORKMAN, Brooklyn, N. Y. Filed Sept. 21, 1920. Serial No. 411,702. 8 Claims. (Cl. 113—92.)



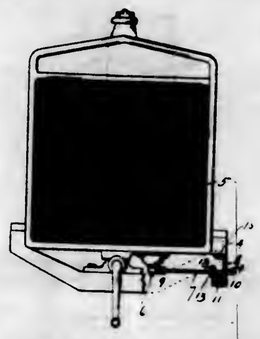
1. In a soldering device, a flux container, a solder container, and a press for pressing the articles being soldered, a portion of said press being carried by the solder container.

1,422,918. DISK BEARING. JOHN C. BOHMKER, Bradley, Ill., assignor to Sears, Roebuck and Company, Chicago, Ill., a Corporation of New York. Filed Sept. 18, 1916. Serial No. 120,693. 1 Claim. (Cl. 64—10.)



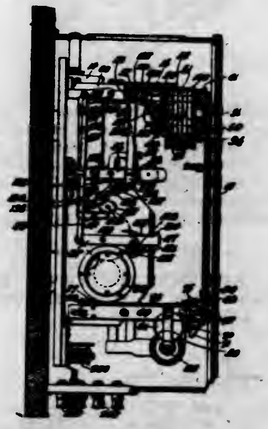
A plow disk gearing comprising an inner member having its exterior surface generated in accordance with Schiele's anti-friction curve or an approximation thereof and hardened by a chilling operation, an an outer member having its interior surface generated on the same or a similar curve complementary to the exterior surface of said inner member and likewise hardened by chilling, said members being secured together in interfitting relation and adapted to be secured respectively to a support and to a plow disk.

1,422,919. RADIATOR PET-COCK ATTACHMENT. MONTE H. BOSS, Indianapolis, Ind. Filed Oct. 28, 1921. Serial No. 511,142. 2 Claims. (Cl. 137—139.)



1. A bar having a recessed end to operatively engage the handle of a radiator drain cock and having a handhold at the opposite end for manipulating the bar, in combination with a bracket for supporting the bar formed of strap metal having a return bend at its lower end forming a double support for the bar, and having its upper end bent and adjustably secured to a supporting member.

1,422,920. MULTIPLE-RECORDING INSTRUMENT. RICHARD P. BROWN and FRITZ WAGNER, Philadelphia, Pa., assignors to The Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 1, 1920. Serial No. 393,423. 27 Claims. (Cl. 234—55.)



1. In a recording instrument, a meter arranged to respond to a plurality of electrical control circuits one at a time, means for connecting said meter with the respective control circuits, a record strip, means for recording on said strip the respective indications of said meter, and means including a movable anvil element to vary the number of the recorded indications for identifying the recorded indications with the respective control circuits.

1,422,921. VEHICLE TIRE. ERIC BYLUND, Winnipeg, Manitoba, Canada. Filed Nov. 23, 1918. Serial No. 263,886. 2 Claims. (Cl. 152—8.)

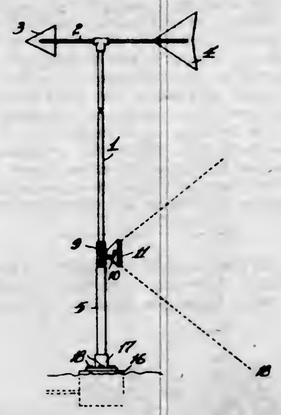
2. A vehicle tire comprising a rigid member adapted for detachable reception on the rim of a wheel and shaped

to form a groove thereabout, a plurality of radially disposed coiled springs secured in the groove, a band surrounding the springs and arranged to maintain the same in position, the springs and band filling the groove for a



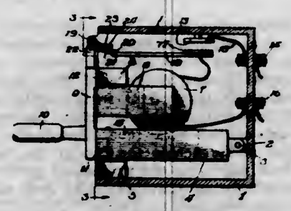
portion of its depth, a cushion mounted on the band and extending circumferentially beyond the groove all around, and side grooves in the cushion for the reception of the sides of the rigid member.

1,422,922. AIRPLANE LANDING DIRECTOR. BURR S. CAMERON, Douglassville, Tex. Filed Mar. 1, 1919. Serial No. 279,933. 5 Claims. (Cl. 73—55.)



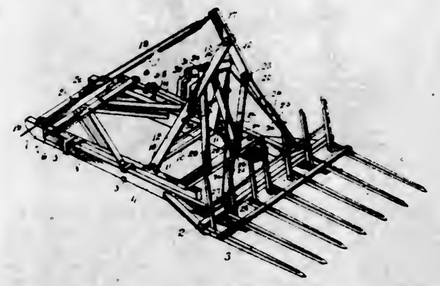
1. An airplane landing director comprising a turntable support, a member co-operable with said support for turning it, being susceptible of actuation by air currents, and a light emitting element carried by said support in a position wherein the light rays thereof will be thrown in an alining direction with the air currents.

1,422,923. AUTOMATIC CUT-OUT. BERT L. CAMPBELL, Chicago, Ill. Filed Feb. 20, 1920. Serial No. 360,149. 4 Claims. (Cl. 200—93.)



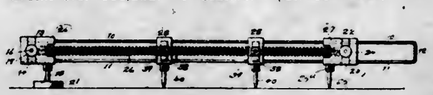
4. In a cut-out, a casing, an armature carried thereby, a permanent magnet pivotally connected to a portion of the casing and arranged to normally rest on said armature, an electro-magnet secured to said casing above said permanent magnet, a second armature disposed above said electro-magnet, means for rigidly connecting said second named armature and said permanent magnet together, a stationary contact, a movable contact in circuit with said electro-magnet, means for connecting said movable contact with said first named means, for causing the movable contact to snap into or out of engagement with said stationarry contact during the movement of said permanent magnet toward or away from said electro-magnet, and a handle secured to the connecting means between the permanent magnet and the second named armature.

1,422,924. HAY STACKER. EDWARD J. CANTWELL, Kansas City, Mo. Filed Feb. 14, 1921. Serial No. 444,672. 4 Claims. (Cl. 214—142.)



1. In a hay stacker, a base frame, a fork frame pivoted thereto, a swinging support pivoted to the base frame, a lever pivoted to said support, a link connecting said lever and said fork frame, means for swinging said lever in one direction, an auxiliary support pivoted to the base frame and arranged to bear against the first named support for resisting the movement of the latter in one direction, a second lever pivoted to the auxiliary support, flexible means connecting one end of the second lever with the fork frame, and a counter balance weight carried by the other end of the second lever, substantially as set forth.

1,422,925. PROPORTIONAL SCALING INSTRUMENT. JAMES D. CARTER, Chicago, Ill. Filed Feb. 11, 1921. Serial No. 444,131. 7 Claims. (Cl. 33—192.)

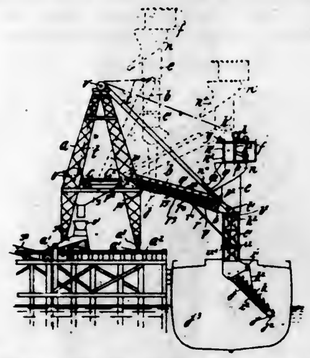


1. In an instrument of the class described, the combination of a frame, a longitudinally extensible and contractible elastic element, relatively adjustable members carried by the frame to each of which the elastic element is secured, an element intermediate the relatively adjustable members and secured to the elastic element, and working instruments one of which is attached to one of the adjustable elements, and one of which is attached to the intermediate element, for the purposes set forth.

1,422,926. UNLOADING APPARATUS. GEORGE CHARLES CHADWICK, Melbourne, Victoria, Australia. Filed July 13, 1918. Serial No. 244,745. 4 Claims. (Cl. 198—88.)

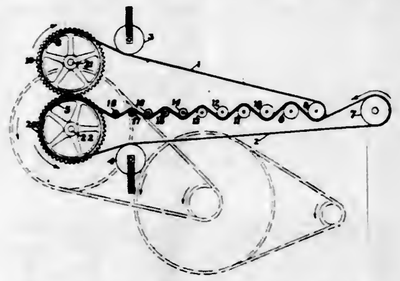
1. Unloading apparatus for vessels, comprising, in combination, a gantry; a conveyor arm hinged thereto at its inner end, and adapted to swing in a vertical plane; a non-rotating sleeve hinged to the outer end of said arm; a rotary elevator well rotatable in said sleeve portion; an adjustable extension hinged to the lower end of the rotary well; a flexible endless elevator guided by said well and extension, and including elevating buckets, adapted to take up material at the outer end of the extension; means for swinging the conveyor arm to raise and lower

the sleeve and well; means for swinging the extension to vary the height of its outer end; inclined thrust-supporting stay-rods; upper hinge connections between the upper ends of said stay-rods and the conveyor arm; lower hinge connections between the lower ends of the stay-rods and the rotary well, said lower connections including



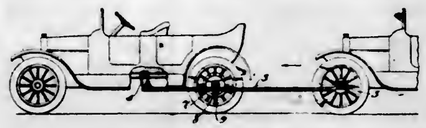
a non-rotating ring pivoted to the lower ends of the stay-rods and encircling the rotary portion of the well, said stay-rods being arranged to maintain the well in a vertical and staunch position against the thrust caused by the pressure of the material on said buckets; and means for turning the rotary well to swing said extension laterally.

1,422,927. LEATHER-SOLE-SOFTENING MACHINE. JAMES LEWIS CLEVENGER, Columbus, Ind. Filed July 19, 1921. Serial No. 485,821. 1 Claim. (Cl. 69—1.)



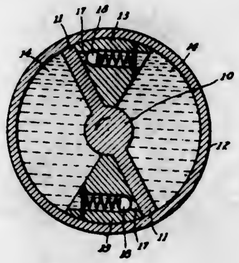
A machine for softening leather comprising a series of rollers of progressively diminishing diameters and two conveyor belts which pass over the top and bottom of the rollers in alternation, whereby a leather article held between said belts and passing successively by the rollers is given gradually increasing angles of flexure.

1,422,928. COMBINED TOW AND PUSH BAR. GEORGE M. COLLING, Carrington, N. Dak. Filed Mar. 9, 1921. Serial No. 450,825. 1 Claim. (Cl. 280—33.2.)



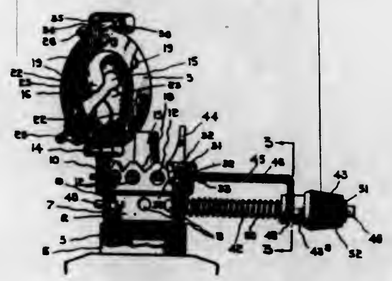
A combined tow and push bar having at one end a hook applicable to one of the axles of a vehicle and having at its other end means for attaching said bar to a second vehicle, and a saddle adjustable on the bar for supporting one of the axles of one of said vehicles.

1,422,929. POWER-TRANSMISSION MECHANISM. RICHARD T. COOKE, Indianapolis, Ind. Filed Nov. 11, 1920. Serial No. 423,314. 5 Claims. (Cl. 64—100.)



5. In a power transmission device, the combination of a driving member, a driven member, a receptacle carried by one of said members, a plurality of balanced vanes carried by the other of said members and arranged within said receptacle, a plurality of balanced dams carried by and within the receptacle and dividing said receptacle into a plurality of compartments, in each of which is arranged a vane, said vanes and dams cooperating to permit a restricted flow impelled by the vanes from one compartment of the chamber to another, means for varying said restricted flow, means for permitting a less-restricted reverse flow from one compartment to another impelled by the vanes, and means for automatically angularly normalizing the driving and driven members.

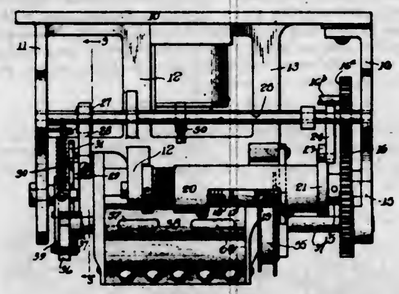
1,422,930. HYDROCARBON BURNER. CHARLES EDWARD CORADO, Winnipeg, Manitoba, Canada. Filed Aug. 19, 1921. Serial No. 493,529. 12 Claims. (Cl. 67—68.)



1. In a hydrocarbon burner the combination with a wick tube; of a wick trimming device consisting of a pair of spaced push rods slidably mounted upon the burner on opposite sides of the wick tube, and a member of substantially inverted U form rigidly connected to said push rods and movable in unison therewith, and across the top of the wick tube, that portion of the member which moves across the top of the wick tube being of narrow width for the purpose of preventing the flame of the wick being extinguished by such movement.

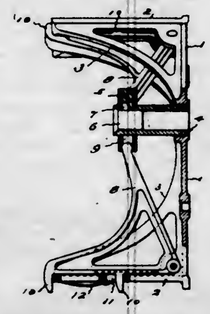
1,422,931. DOOR-CONTROLLING DEVICE. HERBERT W. CRANE, Chicago, Ill. Filed Oct. 1, 1919. Serial No. 327,785. 6 Claims. (Cl. 172—152.)

2. In a door controlling device, the combination of a motor, a spring-rotated pole changer adapted to interrupt the supply of current to the motor at a desired limit of movement, and mechanical means operated by the



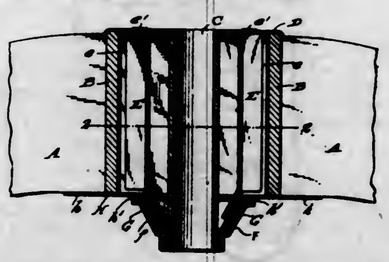
motor for positively shutting off the supply of current to the motor simultaneously with the operation of said pole changer, substantially as described.

1,422,932. SPARE-TIRE CARRIER. ALBERT D. CROSSLEY, Hartford, Conn., assignor of one-half to Reuben T. Bassett, Hartford, Conn. Filed July 1, 1920, Serial No. 393,340. Renewed May 25, 1922. Serial No. 563,679. 5 Claims. (Cl. 224—29.)



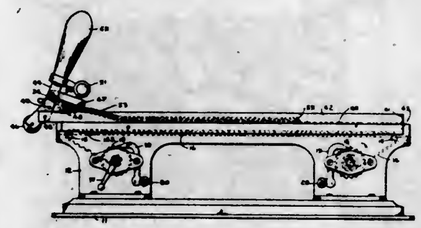
1. A tire carrier comprising a frame having outwardly extending legs and forwardly projecting feet, arms pivoted to the legs and having fingers adapted to project beyond the outer surfaces thereof, means for swinging the arms, and a lock for securing said means when the arms are swung to such position that the fingers project beyond the feet.

1,422,933. CHAIR BASE. ROBERT K. DAWSON, Guelph, Ontario, Canada. Filed Dec. 22, 1921. Serial No. 524,086. 16 Claims. (Cl. 155—138.)



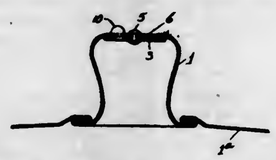
1. A securing device for chair legs including a central upright member, clamping members movable substantially radially with regard to said central member and adapted to grip the chair legs, and means engaging said central member and said clamping members for drawing said clamping members into their clamping positions.

1,422,934. DUPLICATOR. THEODORE DANHEISER, New York, and FREDERICK FRANCIS FECHER, Brooklyn, N. Y., assignors to The Beck Duplicator Company, a Corporation of New York. Original application filed Oct. 11, 1917, Serial No. 196,040. Divided and this application filed Nov. 22, 1920. Serial No. 425,885. 8 Claims. (Cl. 101—133.)



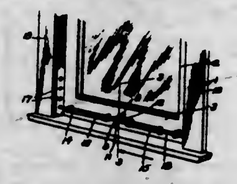
1. An attachment for duplicators adapted to be movably supported thereon and comprising means adapted to support parts of a plurality of sheets of paper or the like and to permit a part of the lower of said sheets to be depressed on the said duplicator and adapted when moved with refernce to said duplicator to permit said lower sheet to escape but to retain all the other said sheets; said attachment also comprising means adapted to so depress said paper.

1,422,935. VENTILATING KNOB FOR COOKING VESSELS. MURRAY F. DEAN, St. Louis, Mo. Filed Apr. 18, 1921. Serial No. 462,440. 3 Claims. (Cl. 53—6.)



1. A ventilating knob for cooking vessels comprising a hollow shell adapted to be secured to the cover of the vessel, said shell having a plurality of perforations therein, and a disk rotatably secured to said shell, said disk having perforations therein corresponding to the perforations of said shell, whereby said disk may be turned so that the corresponding perforations of the disk and shell are in alinement, thus providing openings into the vessel or so that the perforations are out of alinement, providing a closed cover for the vessel.

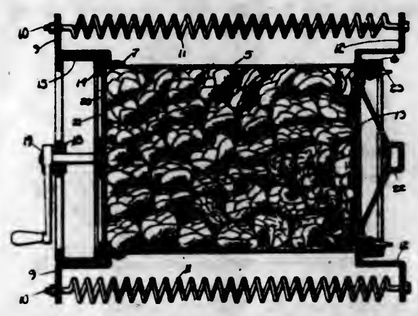
1,422,936. LOCK. ASA G. DELPH and ROBERT C. HEMPHILL, Kansas City, Mo. Filed July 5, 1921. Serial No. 482,373. 4 Claims. (Cl. 292—33.)



2. The combination with a frame having an opening and a movable closer for the same, of a plate on one side of the closer, normally retracted, spring-actuated

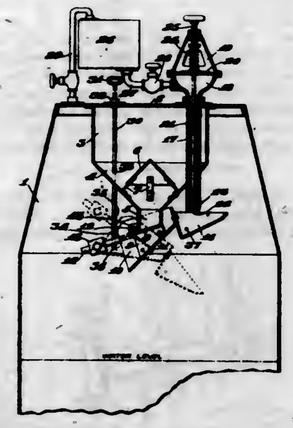
bolts on the other side of the closer, means connected to the plate and extending through the closer for releasing said bolts, and means on the frame for engagement by said bolts.

1,422,937. CABBAGE CUTTER. GEORGE DORCHEFF, alias George Theodore, Cincinnati, Ohio. Filed Oct. 7, 1919. Serial No. 506,042. 1 Claim. (Cl. 146—11.)



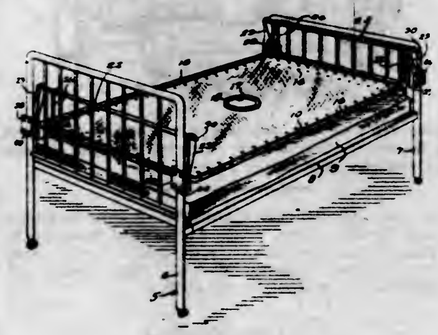
A cabbage cutter comprising a cylindrical body, a reciprocally movable non-removable plate within and movable from one end of the body, adapted to be moved toward the opposite end of the body, a cutter plate housing hinged at the opposite end of the body, a removable cutter plate rotatively mounted within the housing and arranged to close the opposite end of the body when the housing is moved to contact the body, means for rotating the cutter plate from its housing enclosed rim, springs extending longitudinally and exteriorly of the body, attached to the first mentioned plate and adapted to move the plate longitudinally of the body, and catches adapted until released to retain the first mentioned plate at the first mentioned end of the body for purposes of filling.

1,422,938. GAS GENERATOR. PARMER DORSEY, Wichita, Kans., assignor to Henderson-Willis Welding and Cutting Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 23, 1918. Serial No. 263,908. 7 Claims. (Cl. 48—43.)



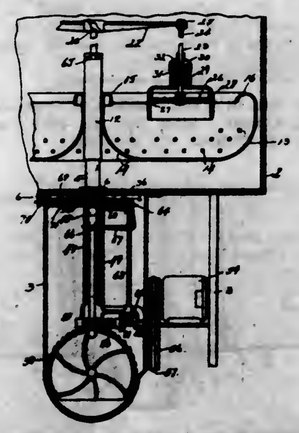
1. In a gas generator of the character described, a tank, a feed hopper therefor, a dumping charge-delivering device cooperating with the outlet of said hopper, said device having a self-discharging bucket of a filling capacity to overbalance and actuate the device to deliver the charge from the hopper, and automatically operative means, controlled by the pressure of the gas generated in said tank, for supplying a liquid to said bucket, said liquid-supplying means being maintained normally inactive under a predetermined pressure and becoming active only when the pressure decreases.

1,422,939. ATTACHMENT FOR BEDS. EDITH B. DOWN, Watertown, N. Y. Filed Feb. 11, 1922. Serial No. 535,910. 1 Claim. (Cl. 5—45.)



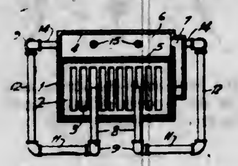
In a bed the combination with brackets having V-shaped attaching portions adapted to engage the corner posts of a bed, of means to securely connect said V-shaped attaching portions to the corner of the bed, the upper portions of said brackets being provided with transverse openings, winch bars rotatably extended through said openings, pins detachably locking said winch bars to said brackets the end portions of said winch bars being squared, a crank adapted for connection with the squared end portions of said winch bars, an auxiliary mattress connected to said winch bars, the upper portions of said brackets being extended angularly to overhang the ends of said mattress.

1,422,940. WASHING MACHINE. CHARLES W. DUNMIRE and SCHUYLER C. ENCK, Philadelphia, Pa. Filed Apr. 29, 1920. Serial No. 377,586. 1 Claim. (Cl. 68—19.)



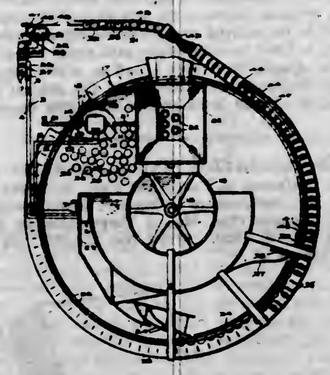
A washing machine comprising a tub having a hole in the bottom thereof, a tubular bearing mounted in said tub and communicating with said hole, a sleeve surrounding said bearing, a perforated clothes container carried by said sleeve, an axle slidably and rotatably mounted in said bearing, means for connecting the sleeve to the axle for raising the container during the upward stroke of the axle and other means for actuating the first named means to disconnect the sleeve from the axle at a predetermined time to permit the container to fall.

1,422,941. WATER HEATER. GEORG LONRATS ENNINGA, Sibley, Iowa. Filed Sept. 10, 1920. Serial No. 409,363. 1 Claim. (Cl. 126—367.)



In a water heater, a casing, a fire chamber in said casing, an ash pit in said casing, a grate separating said ash pit and fire chamber, a hinged door for said fire chamber, a smoke chamber in said casing a perforated partition dividing said smoke chamber from said fire chamber, a draft chamber connecting said ash pit and smoke chamber, pipe links connecting said fire chamber and smoke chamber, said pipe links extending in pairs outwardly from said fire chamber and substantially encompassing said casing, and a stack for said smoke chamber whereby a forced air circulation is set up in said pipe links.

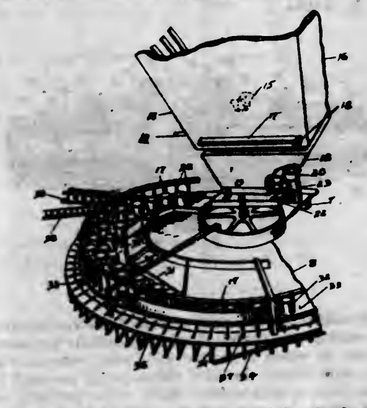
1,422,942. CONTAINER-ARRANGING APPARATUS. SYLVESTER EBERLY, Toledo, Ohio, assignor to David A. Yoder, Toledo, Ohio. Filed Dec. 18, 1919. Serial No. 345,898. 12 Claims. (Cl. 198—1.)



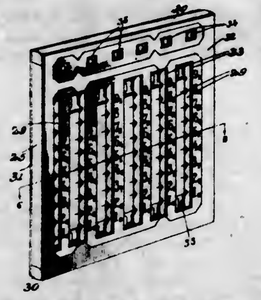
1. A machine for arranging containers as to the filling end, embodying a supply way, selector mechanism shifting containers from said way, a conveyor for receiving said selected containers, driving means for the conveyor and machine, and means for simultaneously stopping the conveyor and machine.

1,422,943. CAN-RIGHTING MACHINE. SYLVESTER EBERLY, Toledo, Ohio, assignor to David A. Yoder, Toledo, Ohio. Filed Sept. 20, 1920. Serial No. 411,456. 7 Claims. (Cl. 198—1.)

7. Mechanism for arranging cylindrical vessels embodying means for arranging the vessels on-end, selecting means for disposing selected vessels from on-end to on-side position, a support for the on-side vessels, a way to which the on-side vessels may roll, a way to which the remaining on-end vessels are forced by the mechanism including a swirl for turning these on-end vessels to end the same direction as the on-side vessels, thereby forming two rolling streams of vessels ended the same direction, and a chute for delivering the swirled vessels into the stream of the other vessels.



1,422,944. CALCULATOR. HARVEY S. EDMONDSON, Spokane, Wash. Filed Jan. 3, 1920. Serial No. 349,242. 4 Claims. (Cl. 235—69.)

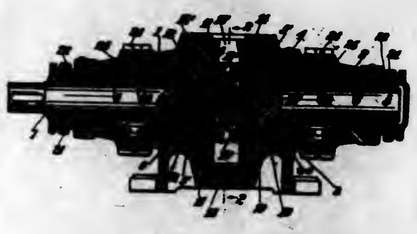


1. In a device of the class described, a housing having sight openings on its face, number members slidably carried by said housing and movable past the sight openings and bearing quantities arranged in numerical order, the housing having slots and bearing a series of quantities arranged in numerical order beside each slot, the said members and said slots being equal in number to said sight openings, the said members having common means presented beneath said slots to provide for movement of the members in opposite directions, the end walls of said slots being adapted to limit the movement of the medium employed for moving the said members in either direction.

1,422,945. MANUFACTURE OF ARSENICAL COMPOUNDS. KARL BASIL EDWARDS, London, England. Original application filed Jan. 26, 1921, Serial No. 440,168. Divided and this application filed Oct. 22, 1921. Serial No. 509,750. 3 Claims. (Cl. 23—13.)

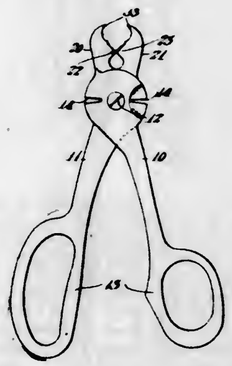
1. A process for the manufacture of salts of the formula R_3AsS_4, where R is an alkali metal or ammonium, which comprises treating arsenic trisulphide with a solution of an alkali polysulphide in the proportions of one molecular equivalent arsenic trisulphide, three molecular equivalents alkaline monosulphide and one molecular equivalent sulphur.

1,422,946. ROTARY MACHINE. FRITZ EGERSDÖRFER, Charlottenburg, Germany. Filed Sept. 10, 1920. Serial No. 409,502. 10 Claims. (Cl. 103—44.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a machine of the class described, the combination, with a rotary piston having at its ends radially projecting flanges one of which is formed as a ring removably secured to said piston, the said piston being provided between its flanges with substantially radial pockets, and blades mounted for reciprocation in said pockets, of a cylinder enclosing said piston and arranged eccentrically with respect thereto, upon the inner wall of which when the parts are assembled the said blades bear, said cylinder, piston, and blades forming chambers the capacity of which is alternately reduced and increased upon rotation of the piston, and a fluid inlet and outlet for said chambers.

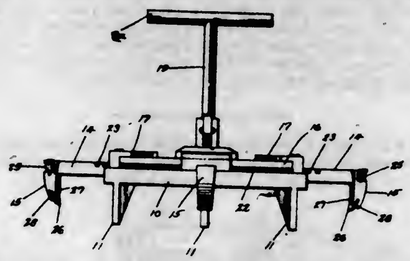
1,422,947. SHOE-BUTTON REMOVER. ORLANDO S. ELLER, Long Beach, Calif. Filed June 24, 1921. Serial No. 480,094. 2 Claims. (Cl. 218—27.)



1. A device for removing a shoe button staple from a shoe comprising: two coacting oppositely facing wedges; means for forcing said wedges under a staple from opposite sides of said staple; and means for positively gripping said staple after said wedges have spread it to free its points.

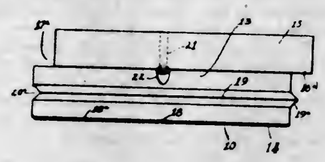
1,422,948. TIRE-RIM TOOL. NATHAN A. EUBANK, Nashville, Tenn. Filed Oct. 30, 1920. Serial No. 420,723. 2 Claims. (Cl. 157—1.)

1. A tire-rim tool comprising a base, radially movable arms carried by the base and having rim-engaging surfaces and depending hooks at their outer ends, the hooks of two adjacent arms having points which are pivoted to swing laterally, a rotatable spirally grooved member



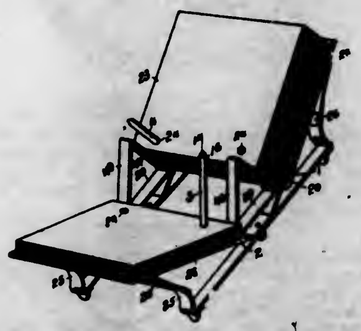
mounted on the base over the arms, said arms having teeth seating in the grooves of said member, and means for rotating the grooved member.

1,422,949. BRICK. JOHN EDWARD EVANS, Chicago, Ill. Filed Nov. 23, 1921. Serial No. 517,159. 4 Claims. (Cl. 72—19.)



1. A brick of the character described comprising a body portion, a flange on the inner edge of a side of said body portion, a recess formed in the inner edge of the opposite side of said body portion adapted to receive the aforementioned flange of a contiguous brick in a structure, a groove formed in the periphery of said body portion on one of said sides, a wedging tongue on the periphery of the opposite side adapted to be received in the aforementioned groove of a contiguous brick in a structure, said flange being provided with an opening to receive a nail or other fastening extending diagonally therethrough in the general direction of the side of said brick remote from said flange.

1,422,950. LOOSE-LEAF BINDER AND STAND THEREFOR. CHARLES R. FARGO and PAUL O. UNGER, Kansas City, Mo., assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed May 3, 1920. Serial No. 378,352. 24 Claims. (Cl. 129—8.)



17. In a loose leaf binder, a leaf-clamping member, two posts, one permanently and the other detachably secured

to the clamping member, and a follower leaf-clamping member adapted for sliding movement on said posts, substantially as set forth.

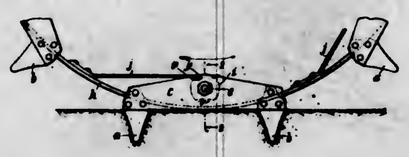
19. In a stand for a loose leaf binder, a frame having means for supporting a leaf-clamping member in a posting position, the frame having positioning means adapted to support a leaf-carrying post detachably mounted in the clamping member, substantially as set forth.

1,422,951. WINDOW-MOUNTING DEVICE. HENRY FAUROT, Jr., Chicago, Ill., assignor to Western Felt Works, Chicago, Ill., a Corporation of West Virginia. Filed Apr. 17, 1922. Serial No. 554,155. 1 Claim. (Cl. 296—44.5.)



A window mounting device, comprising a single normally flat strip of felt formed with parallel longitudinal grooves, the portion of the strip between the grooves being thinner than the portions between the grooves and the lateral edges, the strip being bent along said grooves into channeled form and adapted to have its base inserted in a channeled frame, the side walls of the strip being sewed to the bottom wall so as to reinforce the junctions of said walls and cause the side walls to tend to approach each other.

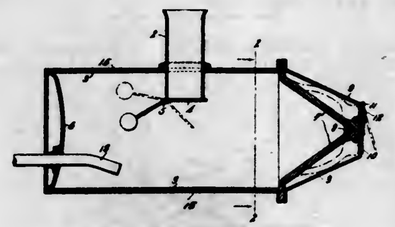
1,422,952. TRACTOR WHEEL. EMILE FEUILLETTE, Boulogne-sur-Seine, France, assignor to La Societe des Etablissements E. Feuillette, Boulogne-sur-Seine, France. Filed May 26, 1920. Serial No. 384,280. 3 Claims. (Cl. 301—50.)



2. A tractor wheel comprising in combination spikes connected in pairs by means of cross bars, said spikes being mounted at the mid point of said cross bars on members whose axes are parallel to the axis of the wheel and rotate in bearings fixed on the rim of the wheel; said members having two diametrically opposed flat portions which engage to hold the pairs of spikes tangential to the rim either in projected or retracted position, pistons perpendicular to the axis of the said members which force by means of a spring placed in a cylindrical casing enclosing the said bearing; and means to limit the oscillations of the pairs of spurs and facilitate their penetration into the earth.

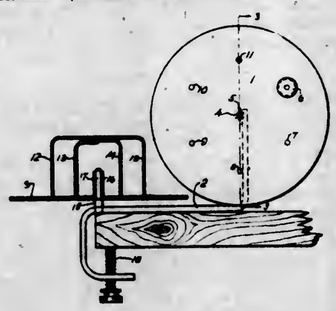
1,422,953. RAILWAY-CAR WATER CLOSET. WILLIAM FRANK, Vancouver, British Columbia, Canada, assignor of one-half to William Taylor, Vancouver, British Columbia, Canada. Filed Nov. 26, 1921. Serial No. 517,860. 3 Claims. (Cl. 4—17.)

1. The combination with the delivery pipe from the bowl of a water closet, of a container into which the lower end of the delivery pipe projects, a valve opening downward adapted to close the lower end of the delivery pipe, yielding means for holding said valve closed, a valve opening outward at one end of the container, and yielding means



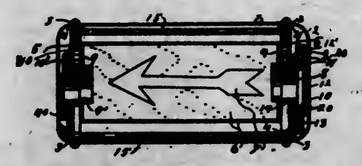
for holding that valve closed, and means for delivering a fluid under pressure into the container.

1,422,954. TRANSFER REEL. PERRY D. FRAZER, Ridgewood, N. J. Filed Nov. 29, 1920. Serial No. 426,901. 10 Claims. (Cl. 242—104.)



4. The take-down transfer reeling device for fish line, etc., comprising a bracket provided with a clamp and with a pivot and shaft, a take-off frame having a bottom plate and connected bearing cooperating with said pivot and wire supporting loops secured to said bottom plate to form guiding supports for a coil of fish line resting on said bottom plate and a reel comprising cooperating detachable plates of substantially the same size as said bottom plate, interposed line supporting pins including a releasable handle pin movably mounted with respect to both of said plates, a bearing sleeve connected to one of said plates and cooperating with said shaft to form a bearing for said reel and means detachably connecting said plates.

1,422,955. DIRECTION INDICATOR. WILLIAM F. FREEMAN and VEL ITHIEL CILLEY, Grand Rapids, Mich. Filed Oct. 2, 1920. Serial No. 414,297. 6 Claims. (Cl. 116—36.)



1. In combination with a direction indicator having a revoluble symbol cylinder therein; an antifriction roller revolubly mounted upon one end of the cylinder, a cam arm pivotally mounted, at one end, upon the end of the cylinder frame, a cam mounted on the other end of the

arm in position to engage the antifriction roller and revolve the cylinder from first position into second position, and means for connecting the cam arm with the brake rod of an automobile.

1,422,956. VEHICLE SPRING. JAMES MILTON GAAR, Richmond, Ind. Filed Jan. 9, 1920. Serial No. 350,259. 2 Claims. (Cl. 267—52.)

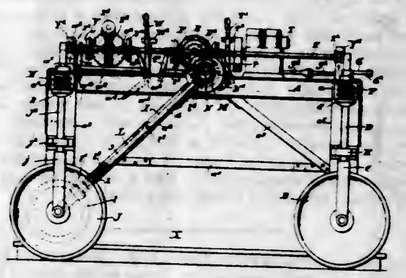


1. A vehicle spring having leaves provided with vertical series of laterally projecting lugs in transversely aligned pairs on opposite sides of its center, and U-bolts having their upper portions crossing one another on top of the spring leaves and having their side portions depending along opposite sides of the spring leaves and engaging the said lugs, as and for the purpose described.

1,422,957. INK AND METHOD OF MAKING THE SAME. EDWARD S. GARVEY, Clayton, Mo. Filed May 23, 1921. Serial No. 471,927. 1 Claim. (Cl. 134—37.)

The herein described ink comprising aniline dye commingled with alcohol and shellac in proportions approximately as follows: aniline dye three ounces, alcohol four gallons and shellac six pounds.

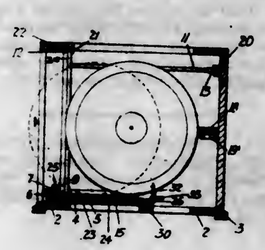
1,422,958. LUMBER CARRIER. CARL F. GERLINGER, Dallas, Oreg. Filed Aug. 30, 1921. Serial No. 496,799. 8 Claims. (Cl. 212—141.)



1. A lumber carrier or truck comprising a frame, front and rear wheels on which the frame is supported, lifting shoes, vertically movable rack bars, connecting links directly pivoted to the shoes and to the rack bars, an engine on the frame, and connections between the engine and the rack bars for raising and lowering the shoes.

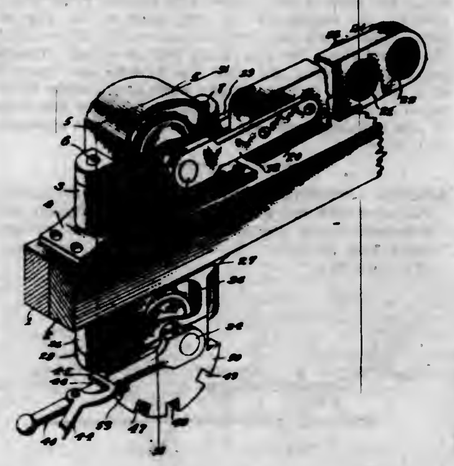
1,422,959. TALKING-MACHINE DISK-RECORD CABINET. HARRY H. GERSTNER, Dayton, Ohio. Filed July 13, 1921. Serial No. 484,451. 5 Claims. (Cl. 211—16.)

3. In a cabinet of the type described, the combination with a series of vertically disposed partitions secured within the front portion of said cabinet to receive talking-machine disk-records, of a plurality of horizontal slats secured at their front ends to said vertically-disposed partitions, a grooved member adapted to receive the rear ends of said slats, and a transverse piece secured to the rear wall of



said cabinet, containing a longitudinal groove to receive the grooved member which receives the horizontal slats.

1,422,960. AUTOMOBILE INTENTION-SIGNALING DEVICE. EDWARD TINKHAM GIBSON, Brooklyn, N. Y. Filed Mar. 29, 1921. Serial No. 456,640. 1 Claim. (Cl. 116—52.)



The combination with the roof of an automobile of an intention-signaling device comprising a housing-member secured to and projecting upwardly from said roof and adapted to keep rain from entering its interior and having in its bottom an opening disposed in vertical alignment with a co-operating opening in said roof; a signal-arm-turning shaft rotatably mounted in bearings in said housing-member to turn on a horizontal axis lying in parallel relation with the front-to-rear axis of the automobile and having a body-portion disposed within the interior of said housing-member and an end-portion extending outwardly from said housing-member; a shaft rotating member carried by the said body-portion of the shaft; a signaling-arm carried by the said end-portion of the shaft to travel in a vertical plane; a hanger-member having a locking-plate and fixedly supported beneath and in vertical alignment with said housing-member and projecting downwardly from the plane of the surface of the top of the interior of the car; a handle-member carried by said hanger-member and mounted to be manually swung on a horizontal axis lying in parallel relation with the front-to-rear axis of the automobile; a catch-member carried by said handle-member; and means connecting the said handle-member with the said shaft-rotating member whereby

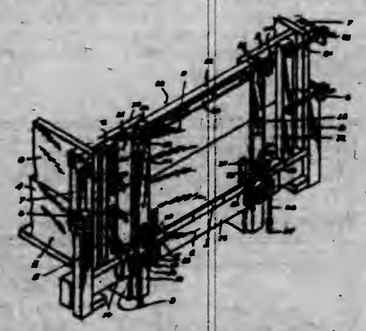
manual operation of the said handle-member will operate to cause rotation of the said signal-arm-turning shaft and resultant movement of the said signaling-arm; said locking-plate having catch-engaging openings at predetermined points in its body, and said catch-member adapted to be manually operated to cause it to engage any one of the said catch-engaging openings in the said locking-plate to temporarily hold the said handle-member in a desired position.

1,422,961. SELF-ADJUSTING BEARING. HARRY GLASS, Jamaica, N. Y. Filed July 25, 1921. Serial No. 487,293. 5 Claims. (Cl. 64—10.)



1. In a device of the kind described the combination with two bearing surfaces formed by the inner and outer faces of a hollow cylinder, of a bearing block providing a rigid surface contacting on said outer face and a plurality of bearing shoes resiliently held in said block in contact with said inner face.

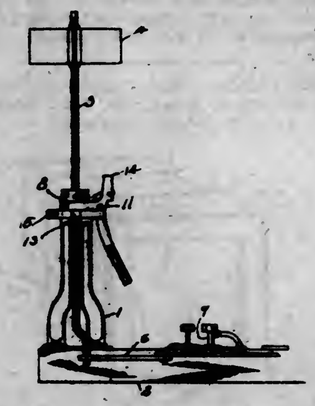
1,422,962. WAGON-GATE CONSTRUCTION. GIDEON W. GOSS and CHARLES E. GOSS, Baltimore, Ohio. Filed July 26, 1920. Serial No. 399,047. 6 Claims. (Cl. 296—51.)



1. In a wagon body, an end gate construction for said body, including a pair of side frames capable of being connected with said body, a door structure normally arranged to cover the space between said side frames, means for pivotally connecting said door structure contiguous to its upper and lower edges with said side frames, whereby the door structure may be selectively operated to swing from either its upper or lower edges, and means for holding the door structure normally against swinging movement.

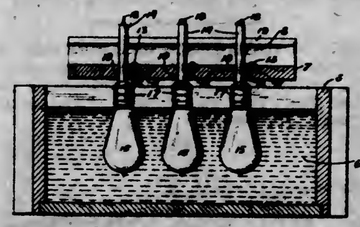
1,422,963. RAILWAY-SWITCH LOCK. ARTHUR G. GRANT and JOHN J. FANNING, Yardley, Wash.; said Fanning assignor to John V. Grant, Yardley, Wash. Filed Oct. 18, 1921. Serial No. 508,563. 2 Claims. (Cl. 246—414.)

1. The combination with a switch mechanism including a notched segment and a head rotatable with the rotatable shaft, of a slotted lateral arm on the head and a switch lever pivoted thereto, a slotted housing on the arm and a spring pressed bolt therein, and an integral wedge shaped tongue having an orifice and projecting from said lever



adapted to enter the slotted housing and co-act with said bolt for locking the lever.

1,422,964. DEVICE FOR USE IN COLORING BULBS. HARRY L. GREENBAUM, New York, N. Y. Filed Aug. 25, 1921. Serial No. 496,374. 5 Claims. (Cl. 91—65.)



1. A device for use in coloring bulbs, comprising a stem, a supporting cup carried by said stem and provided with a portion for fitting upon an incandescent bulb terminal, said portion being made of soft rubber.

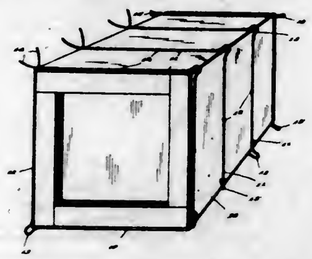
1,422,965. TOOL FOR CLOSING WIREBOUND BOXES. JASON H. GREENSTREET, Indianapolis, Ind. Filed Dec. 26, 1918. Serial No. 268,264. 4 Claims. (Cl. 140—118.)



1. A tool for twisting together crossing wires embracing an article, comprising a rotatable shank trans-

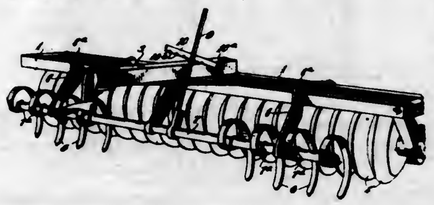
versely slotted across its end to receive a pair of crossing wires by endwise application of the tool thereto, a transverse member being arranged at the base of the slot and formed to lie between the crossing wires to engage them laterally at the crossing point.

1,422,966. PACKAGE BLANK AND PACKAGE. JASON H. GREENSTREET, Indianapolis, Ind. Filed June 4, 1920. Serial No. 386,541. 10 Claims. (Cl. 217—12.)



1. A blank for wirebound packages comprising a series of side-forming sections formed for angular association with adjacent sections, said sections being connected together by binding wires and in such spaced relationship to each other that U-shaped surplus of binding wire is formed at the corners of the associated sections.

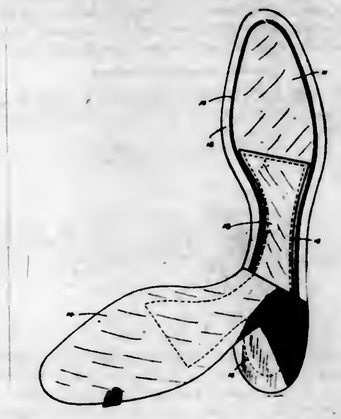
1,422,967. TRACTOR-TRACK OBLITERATOR. RAY H. GRISWOLD, Cleveland, and EARL J. POWELL, Berea, Ohio, assignors to The Dunham Company, a Corporation of Ohio. Filed Aug. 22, 1919. Serial No. 319,069. 4 Claims. (Cl. 55—12.)



1. In a tractor track eradicator for implements, an implement including a frame and a centrally located draft element, together with earth working elements below said frame, forwardly and downwardly extending bearing brackets detachably secured to said frame and extending in front of said earth working elements, an oscillatory tooth carrying bar in said bearing brackets below said frame and in front of said earth working elements, a plurality of earth working tooth bars adjustably carried by said bar and spaced apart in groups to correspond with the tractor elements of the attached tractor and adapted to traverse and eradicate the tracks thereof in front of said earth working elements of the implement, a hand lever on said tooth carrying bar extending upwardly in front of said implement frame, said hand lever extending at the side of said centrally located draft element and being provided with a lateral projection, and an oscillatory gravity bar on said draft bar provided on its under side with notches adapted to engage said projection of said hand lever in various positions.

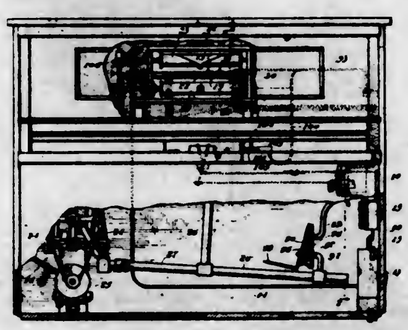
1,422,968. BOOT AND SHOE. EDWARD B. HAFERTEPEN, Cincinnati, Ohio. Filed Aug. 23, 1920. Serial No. 405,213. 6 Claims. (Cl. 36—76.)

1. A boot or shoe having the inner and outer soles made to conform to the shape of the last, a shank-piece sewed therebetween and extending from the heel of the shoe to the ball thereof by stitches through and through



said inner and outer soles and shank-piece adapted to bind and hold said shank-piece and inner and outer soles in fixed relation to each other.

1,422,969. EXPRESSION DEVICE FOR AUTOMATIC MUSICAL INSTRUMENTS. JAMES CLARKE HAGEY, Chicago, Ill., assignor of one-half to The Cable Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1918. Serial No. 219,879. 105 Claims. (Cl. 84—36.)

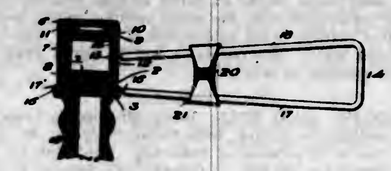


1. An expression-device for an automatic musical instrument, comprising means for mechanically adjusting parts of the musical instrument to limit the movements of the note-sounding mechanism, said means including a regulator.

1,422,970. PORTABLE HAND TOOL FOR CAPPING, SEALING, AND UNSEALING BOTTLES. ORRIN A. HANFORD, Pasadena, Calif. Filed Mar. 26, 1921. Serial No. 455,734. 5 Claims. (Cl. 226—84.)

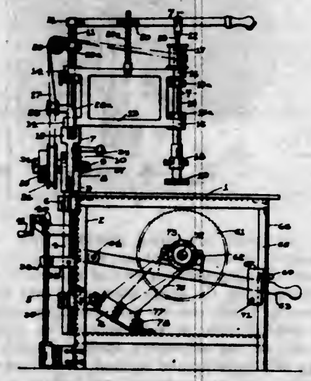
1. A portable hand tool of the character described, comprising a chambered die member provided with a beaded lower end, a slidable member within the die member, a washer plate within said first named member, resilient means adapted to contact with the upper surface

of said washer plate, and a handle member with one end fixedly secured to the beaded portion of the die member



and its other end passing through an opening formed in the body of the said slidable member.

1,422,971. WOODWORKING MACHINE. JOHN HANSON, Worcester, Mass. Filed Apr. 16, 1921. Serial No. 461,863. 6 Claims. (Cl. 144—134.)



1. In a machine of the class described, a table, a bracket provided with a shank vertically adjustable on said table and terminating in a head, a socket turnable on a horizontal pivot pin extending through said head and a shaft extending from said socket upon which is pivotally mounted a tool carrying frame.

1,422,972. DUSTPROOF OIL RING. WILLIAM HENRY, Philadelphia, Pa. Filed Apr. 25, 1918. Serial No. 230,719. 5 Claims. (Cl. 286—30.)



1. The combination with the starting crank of a motor vehicle and the bearing for said crank, of a lubricant impregnated ring mounted on said crank adjacent the bearing; a washer formed to permit of its application to said crank; with a spring for moving the crank longitudinally in the bearing and operative on the washer to cause it to retain the lubricant ring in place.

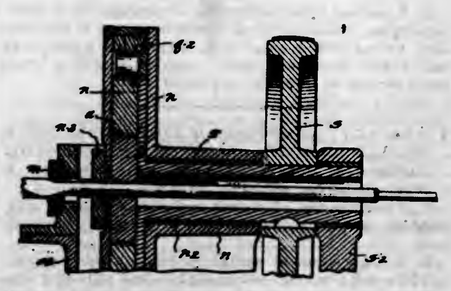
1,422,973. INDEX-CARD HOLDER. WILLIAM HERTSBERG, Brooklyn, N. Y. Filed Feb. 23, 1922. Serial No. 538,654. 4 Claims. (Cl. 40—31.)

1. A display card holder formed of a single piece of twisted wire, a seat formed adjacent the middle portion of said wire to embrace a rod for supporting garment hangers, a clip formed integrally with the wire at one



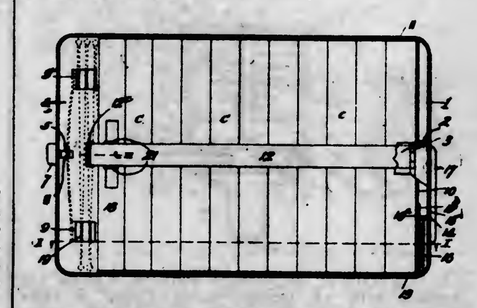
end for holding a card, and a weight formed by coiling said wire at the opposite end for balancing the holder on the rod.

1,422,974. ART AND MECHANISM FOR DRAWING HOLLOW CYLINDRICAL METAL BODIES. CLIFFORD B. HIGGINS, Detroit, Mich., assignor of one-half to Harry A. Higgins, Detroit, Mich. Filed Dec. 27, 1920. Serial No. 433,319. 5 Claims. (Cl. 205—7.)



1. In the art of drawing metal tubes over a mandrel, the method of removing the mandrel therefrom, which consists in hammering the tube on the mandrel so as to expand the tube in order that the mandrel may be withdrawn.

1,422,975. CIGARETTE CASE. SIDNEY HOLTZCLAW, Kansas City, Kans. Filed May 10, 1920. Serial No. 380,329. 3 Claims. (Cl. 206—41.)



3. In a cigarette case, a body portion having an inwardly projecting plate at its front edge provided with a pair of downturned lugs, a latch projecting up through said plate, a flat spring bearing against said lugs and said latch, and a hinged cover having an inwardly projecting flange at its free edge for engagement with said latch.

1,422,976. STEEL-CUSHION WHEEL. ADDISON C. HOOF, Chicago, Ill. Filed June 26, 1919. Serial No. 306,772. 14 Claims. (Cl. 152—28.)



3. A cushion wheel comprising in combination, a wheel supporting member, resilient members secured to said support having bowed outer ends, means for maintaining said bowed outer ends under compression, and a wheel tread secured to said last mentioned means.

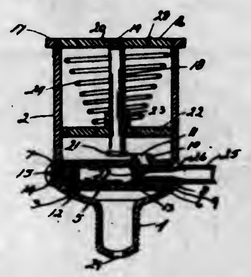
1,422,977. COMPOUND OF LIME AND SULPHUR STABILIZED WITH AN AROMATIC COMPOUND. MATTHEW S. HOPKINS, Reading, Pa. Filed July 8, 1921. Serial No. 483,346. 3 Claims. (Cl. 167—6.)

1. A composition of matter including a calcium polysulphide and a calcium salt of an aromatic sulphonic acid.

2. A composition of matter including a calcium polysulphide and a calcium salt of naphthalene sulphonic acid.

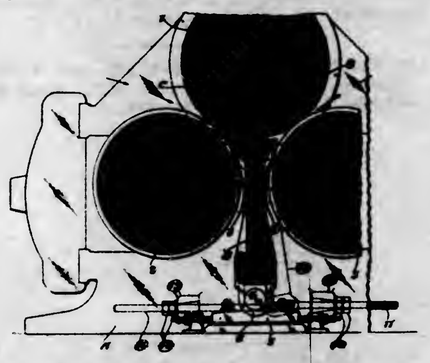
3. A lime-sulphur compound including in its content more than one percentum and less than ten percentum of a calcium salt of an aromatic sulphonic acid.

1,422,978. AUTOMATIC FILLER FOR GREASE CUPS. SAMUEL HOUGH, Atco, N. J., assignor of one-fourth to Ruben P. Levick, Berlin, N. J., and one-fourth to Charles J. Richter, Collingswood, N. J. Filed Sept. 22, 1920. Serial No. 411,930. 8 Claims. (Cl. 184—45.)



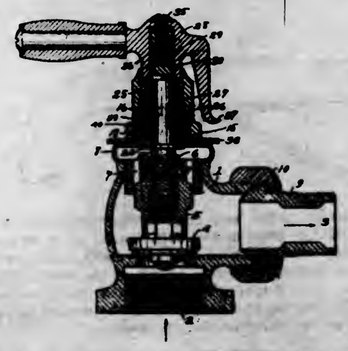
3. In a device of the character described, a grease cup provided with an interior barrel having a valve chamber therein provided with a tapered inlet opening forming a communication between the exterior of the cup and said valve chamber and further having an outlet opening forming a communication between the valve chamber and the interior of the cup, a spring actuated valve for normally closing said openings, in combination with a grease gun nozzle having a frusto-conical shoulder some distance from its end and adapted to register with the conical inlet opening to limit the inward movement of said nozzle having an outlet opening adjacent its end for registration with the outlet opening leading from the valve chamber when said nozzle is inserted therein and during which time the valve will be forced away from the openings by said nozzle.

1,422,979. CANE MILL. HENRY HUNTER, St. Louis, Mo., assignor to Fulton Iron Works Company, St. Louis, Mo., a Corporation of Delaware. Filed May 16, 1919. Serial No. 297,651. 2 Claims. (Cl. 100—47.)



1. In a cane mill, a housing provided with crushing rolls, a pivotally mounted turnbeam extending across said housing and arranged between two of said rolls, a trash knife extending from the upper portion of said turnbeam and cooperating with one of said rolls, an oscillatory adjusting arm movable in said housing to adjust the pivoted turnbeam, an oscillatory operating shaft extending through said housing and secured at its inner end to said adjusting arm, an operating arm located at the exterior of said housing and secured to said operating shaft, and securing means cooperating with said operating arm to retain said turnbeam and trash knife in the positions to which they are adjusted.

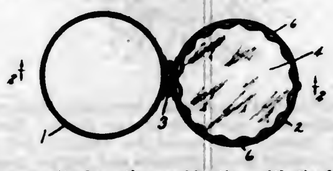
1,422,980. VALVE MECHANISM. FRANK L. HUTCHINSON, Milwaukee, Wis., assignor to Sterling Engineering Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 5, 1919. Serial No. 301,968. 4 Claims. (Cl. 251—47.)



2. In a valve mechanism, the combination with a valve casing and a valve therein, a valve operating stem projecting through the casing and having its inner end operatively connected with the valve, a casing extension having an annular packing member through which the stem passes, an annular projection on the stem adapted

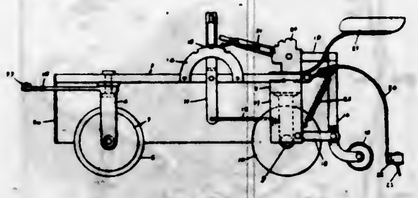
to seat upwardly against said packing, a handle, a spring coiled about the stem with one end supported from the casing extension and the other end bearing against the handle, said stem being socketed in the handle and connected therewith by an adjusting screw passing through the handle and engaged in an axially disposed socket in the stem, whereby the handle is adjustable longitudinally of the stem.

1,422,981. VANITY BOX. FRANK S. HYATT, Brooklyn, N. Y. Filed Mar. 16, 1921. Serial No. 452,692. 3 Claims. (Cl. 132—83.)



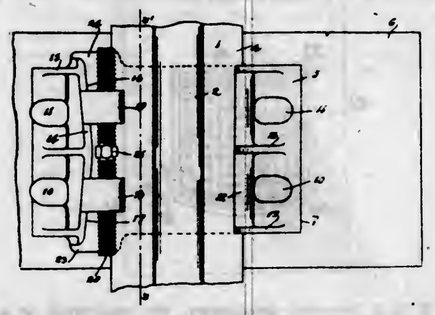
3. In a vanity box, the combination with the box, of a mirror and a corrugated spring wire adapted to press against the inner surface of the side walls of the box by some of its corrugations so as to be retained in frictional engagement therein and to engage by other corrugations upon the outer or visible surface of said mirror to hold the same in place in said box.

1,422,982. CULTIVATOR. ROBERT G. ISLEY, Edinburg, Ind. Filed Apr. 6, 1921. Serial No. 458,930. 2 Claims. (Cl. 55—73.)



2. In a cultivator, a frame structure, series of cutting disks, a pair of substantially inverted U-shaped auxiliary frames pivotally suspended from parts of the frame structure, shafts carried by the lower ends of said auxiliary frames upon which said disks are mounted, means for shifting the positions of said disks, and means for raising and lowering the rear end of the frame structure for elevating and lowering said disks.

1,422,983. TIE-PLATE FOR RAILS. ERNEST N. JOHNSON, Winnipeg, Manitoba, Canada. Filed July 12, 1921. Serial No. 484,144. Renewed Apr. 15, 1922. Serial No. 553,014. 3 Claims. (Cl. 238—304.)



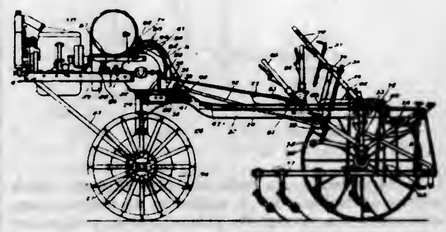
1. A rail fastening, comprising a base plate, means thereon engageable with one edge of a rail base, an abutment on the base plate spaced from the opposite edge of the rail base, a retaining member removable on the base plate for wedging engagement between said abutment and the adjacent edge of the rail base and means connected to said retaining member for moving same in opposite directions.

1,422,984. PENCIL. HAROLD R. JOHNSON, Cranston, R. I. Filed June 3, 1921. Serial No. 474,682. 8 Claims. (Cl. 120—18.)



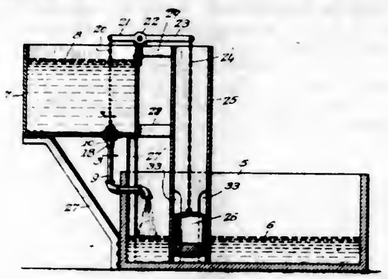
1. In a pencil of the character described, a shell, a tubular guide rigidly supported in the shell concentrically thereof and provided with a slot, a screw rotatably supported in the shell surrounding a portion of the guide, a tubular controller slidably mounted on the guide provided intermediate its length with a longitudinal slot and with a hole, a lead carrier slidably mounted in the guide, a lug on the carrier extending through the slots and into the screw, a plunger slidable in the carrier, and a finger on the plunger extending through the first slot, and hole, and into the screw.

1,422,985. POWER CULTIVATOR. EDWARD A. JOHNSTON, Chicago, and CARL W. MOTT, Berwyn, Ill., assignors, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Oct. 25, 1916. Serial No. 127,619. 5 Claims. (Cl. 97—30.)



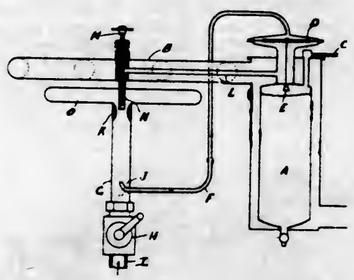
1. In a device of the class described, the combination of a main frame, carrying means and traction means supporting the respective ends thereof, a power plant on the frame for propelling the traction means, an implement adjustably supported on the frame, means for vertically adjusting the implement, means for angling the carrying means, positive steering means for the traction means, for locking the traction steering means against operation, and means controlled by the position of the implement for releasing the locking means.

1,422,986. WATERING TROUGH. ROBERT JUDY, Gifford, Ill. Filed June 11, 1919. Serial No. 303,333. 1 Claim. (Cl. 119—80.)



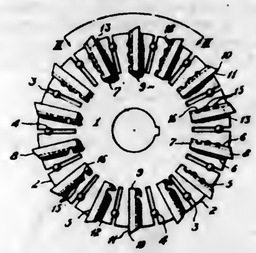
A self-contained unitary structure of the character described comprising a watering trough; a water reservoir located entirely above the trough and supported thereon; a pipe passing into the reservoir arranged to discharge water into the trough; said pipe being arranged so that water will not remain therein; a valve normally closing the upper end of said pipe; a hollow rectangular float guide structure extending from the bottom of the trough to the top of the reservoir having lateral openings through its vertical walls near its bottom end; a round, closed, cylindrical float within said guide; a lever pivoted to a proximate vertical wall of said reservoir having its outer end extending directly over the float and its inner end extending directly over the valve; a chain connecting the outer end of the lever to the float and a chain connecting the inner end of the lever to the valve whereby a straight vertical pull is made on each end of the lever in the operation of the device.

1,422,987. MEANS FOR CONTROLLING THE SUPPLY OF COMBUSTIBLE MIXTURE TO INTERNAL-COMBUSTION ENGINES. GEORGE KEITH and WILFRED AMBROSE WHATMOUGH, London, England. Filed May 3, 1918. Serial No. 232,421. 7 Claims. (Cl. 48—180.)



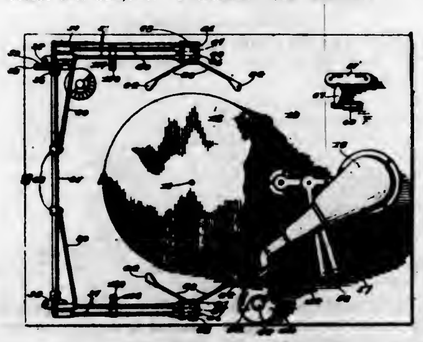
1. In combination, an induction pipe through which a mixture of fuel and air is sucked to an internal combustion engine, a passage for exhaust gases, a vaporizer in said passage, a tubular connection between said vaporizer and said induction pipe, said tubular connection extending through said exhaust passage, a valve serving to control communication between said vaporizer and said tubular connection, an obturating member for regulating delivery of vapor from said tubular connection to said induction pipe, a chamber between and in communication with said vaporizer and said induction pipe, and an automatically operating governor member movable in said chamber, said governor member being operatively connected to said valve and being controlled by the pressure in said induction pipe.

1,422,988. CUTTING TOOL. RAYMUND KIRNEL, Cleveland, Ohio. Filed Sept. 14, 1920. Serial No. 410,317. 13 Claims. (Cl. 29—105.)



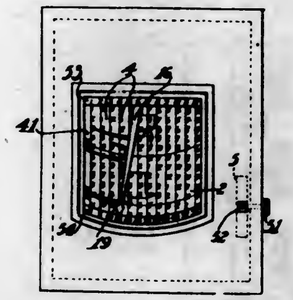
1. A cutting tool comprising a head and a blade mounted for adjustment movement in two distinct directions relatively thereto, and means for securing said blade against movement in one direction and further means for securing against movement in the other direction.

1,422,989. RECORD TURNER FOR PHONOGRAPHS. GLENN R. KNICK, Troy, Ohio. Filed Feb. 7, 1922. Serial No. 534,747. 8 Claims. (Cl. 274—1.)



1. A phonograph including a turntable, means for driving the turntable, and means operated by the driving means for lifting, reversing, and replacing a record.

1,422,990. RECORDING SPEEDOMETER. MATT WILLIAM KOSKI, Cosmopolis, Wash. Filed Aug. 15, 1921. Serial No. 492,313. 4 Claims. (Cl. 234—31.)



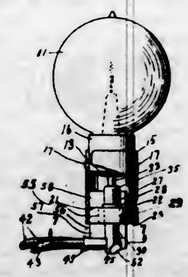
1. In a recording speedometer, the combination of a movable sheet and a transversely movable pointer, said sheet having thereon a plurality of individual transversely-spaced lines of figures indicating distances traveled, the several lines having their zero points positioned differently from all other lines, longitudinally of the sheet.

1,422,991. COUPLING. LOUIS W. KRUSE, San Jose, Calif. Filed Jan. 9, 1920. Serial No. 350,379. 1 Claim. (Cl. 173—324.)



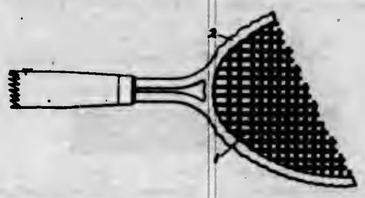
A coupling comprising a cylindrical body portion of insulating material provided with oppositely directed shoulders, and a cap member of insulating material adapted to engage each shoulder and provided with an orifice in the end thereof to permit the passage of wires therethrough, said body portion having a plurality of holes formed longitudinally therein and concentric to the axis thereof, a tube of electricity conducting material positioned in each hole, and a screw operatively positioned with relation to each end of each tube and adapted to engage the end of a wire inserted therein.

1,422,992. ELECTRIC CONNECTOR. EUGENE A. KUEN, Cincinnati, Ohio, assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 24, 1920. Serial No. 383,908. 3 Claims. (Cl. 173—328.)



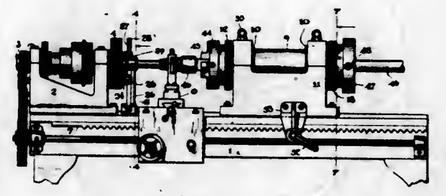
1. In an electric connector, the combination of an insulating body, a pair of electric terminals positioned thereby, and a substantially U-shaped insulating strip, said insulating body provided with a slot, the base of said strip located in said slot, and the limbs of said strip extending beyond the respective ends of said insulating body so as to be located between said electric terminals.

1,422,993. ELASTIC METAL STRINGING, AND THE METHOD OF MAKING THE SAME. WILLIAM A. LARNED, Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 13, 1922. Serial No. 536,135. 2 Claims. (Cl. 153—82.)



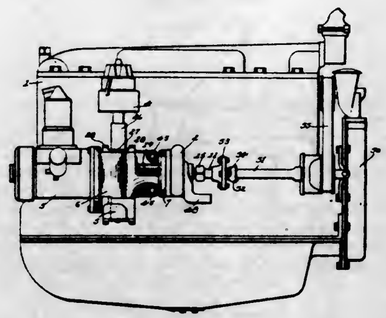
1. An elastic metal-stringing comprising a wire which has first been wound to form a helix of a number of coils per inch, and thereafter stretched in the direction of the axis of the latter, to reduce the number of its coils per inch to give the degree of stiffness, weight and elasticity required of it for the use to which it is put.

1,422,994. DEMOUNTABLE HEADSTOCK FOR LATHES. ARTHUR LEE LIGON, Killeen, Tex. Filed May 3, 1920. Serial No. 378,620. 9 Claims. (Cl. 82—28.)



1. An attachment for common lathes enabling turning work longer than the lathe bed, comprising a hollow head stock in substitution of the usual tail stock and center rest, drive means for said head stock in connection with the lathe spindle, and means embodied in said drive means compensating for differences in location of the latter and of the head stock.

1,422,995. UNIT ASSEMBLAGE OF MOTOR ADJUNCTS. VINCENT LINK, Detroit, Mich., assignor to The Studebaker Corporation, a Corporation of New Jersey. Filed Feb. 14, 1920. Serial No. 358,706. 18 Claims. (Cl. 123—195.)

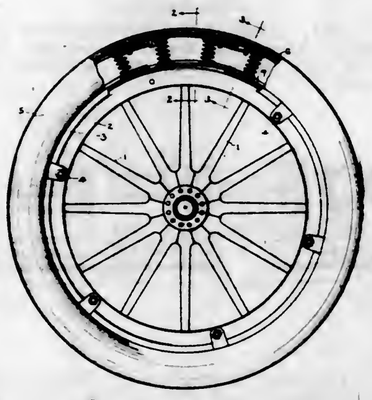


1. Motor assemblage of the character described embodying a supporting element cooperable with a motor and provided with a chamber adapted to contain a lubricant, a plurality of motor adjuncts supported on said element, and driving gears for at least one of said adjuncts positioned within the lubricant chamber, said supporting element being independent of the crank case of the motor and removable from the motor without necessitating the dismantling of any part of the crank case.

1,422,996. RESILIENT TIRE. STEVENS P. LONG, Birmingham, Ala. Filed Apr. 8, 1922. Serial No. 550,905. 4 Claims. (Cl. 152—8.)

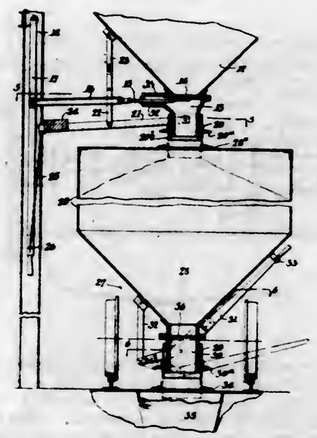
4. A resilient filler for tire casings, comprising a series of spring sections flexibly and yieldingly connected, each section comprising arcuate inner and outer plates which are transversely curved to conform to the inner contour of a tire casing, compression springs serving to connect

said plates near each end of a section, spring abutment lugs at the ends of the outer plate, coil springs mounted



in these abutments and adapted to engage opposed abutments of adjacent sections, and circumferentially yieldable joint means connecting said sections.

1,422,997. APPARATUS FOR HANDLING COMMINUTED MATERIAL. ALEXANDER GRANT MCGREGOR, Warren, Ariz. Filed June 21, 1920. Serial No. 390,466. 8 Claims. (Cl. 214—18.)



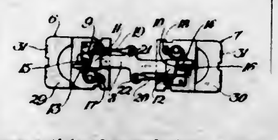
1. In a calcine handling apparatus, the combination with a calcine receptacle having an outlet part, of a sliding sleeve mounted on said outlet part and having an exterior horizontal flange, a calcine car provided with a receptacle having a charging opening of approximately the diameter of said sleeve and which opening may be brought beneath said receptacle outlet part, and means for normally holding said sleeve in a lifted position but permitting it to be lowered into contact with said car receptacle, said means comprising a lever connected with said sleeve, a link supported from said calcine receptacle, and means for holding down the outer end of said lever.

1,422,998. PRIMING AND DECARBONIZING DEVICE FOR INTERNAL-COMBUSTION ENGINES. FRANK D. MALTBY, Battle Creek, Mich. Filed Oct. 10, 1917. Serial No. 195,713. 5 Claims. (Cl. 137—139.)



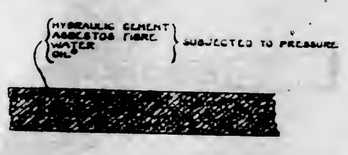
1. In a structure of the class described, the combination with a support member of a valve casing provided with a delivery port and air and water inlet ports, a valve in said casing adapted to connect either said air or water inlet port with said delivery port or to close said delivery port, said valve casing being arranged on one side of said support member and having a bracket extension with a threaded opening therein, a face plate arranged on the other side of said support member, said valve having a stem arranged through said support and face plate and provided with an index member, said face plate having indicia with which said index is associated, and a clamping member arranged through said face plate and support and threaded into said opening in said valve casing whereby said face plate and valve casing are secured upon said support.

1,422,999. BELT AND THE LIKE. KARL MATHEUS, Chicago, Ill. Filed Aug. 29, 1921. Serial No. 496,295. 5 Claims. (Cl. 267—69.)



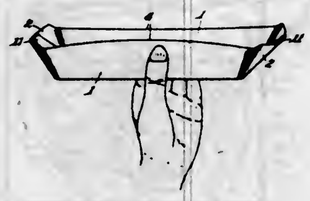
1. As a new article of manufacture, a contractile device for belts and the like, comprising in combination a pair of end plates each having its end portion offset substantially the thickness of belt material, belt sections set into said offset portions, means for securing each offset portion to the corresponding belt section, guide blocks on the end plates having longitudinally extending guide passages, a slide plate having its end portions working within said guide blocks, pins on said slide plate, limiting its movement in the extension direction, a coil spring on each end plate having one end connected to such end plate, links joining the free ends of said springs with the central portion of the slide plate, and suitable housings secured to both end plates and covering over and protecting the springs, links and slide plate, substantially as described.

1,423,000. ASBESTOS-CEMENT PRODUCT AND METHOD OF FORMING THE SAME. RICHARD V. MATTISON, Ambler, Pa., assignor to Asbestos Shingle, Slate & Sheathing Company, a Corporation of Pennsylvania. Filed July 6, 1921. Serial No. 482,812. 11 Claims. (Cl. 25—155.)



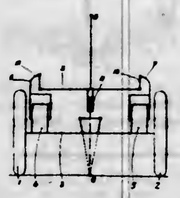
1. A cement composition comprising a homogeneous mixture of oil and asbestos in finely divided condition, water and cement, the same having been subjected to pressure before the cement is set.

1,423,001. PAPER DISH. ELMER T. MAXWELL, Wheeling, W. Va. Filed Jan. 19, 1922. Serial No. 530,322. 2 Claims. (Cl. 229—31.)



1. A paper dish formed of a blank having the form of a rectangle with its corners cut away on relatively short diagonal lines, the sides and ends of the blank being turned upward on lines defining a rectangular bottom, each of said ends being formed by the production of two external end folds, a centrally disposed internal member and intermediate gussets, said folds having their confronting edges inclined and extending into approximate meeting relation adjacent to the upper edges of said ends, said gussets being defined by fold lines which, in the blank, diverge in opposite directions from the ends of the bottom-defining side lines, the relationship between the fold lines and the dimensions of the end folds being such that the blank when folded into dish form produces a dish having ends higher than its sides which relationship between the ends and sides is preserved when the sides are moved to a vertical position.

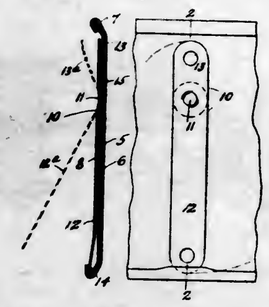
1,423,002. STABILIZING MEANS FOR SUSPENDED VEHICLES. HENRI. MESCHIA, Paris, France. Filed Aug. 1, 1921. Serial No. 489,017. 2 Claims. (Cl. 280—112.)



1. In a stabilising device for vehicles, the combination with the main suspension devices of said vehicle, of auxiliary laterally movable suspension devices interposed between said main suspension devices and the body of the vehicle, a rigid member extending downwardly from the vehicle body intermediate the lateral suspensions, a laterally movable structure swingable about the lowermost transverse center of the vehicle and means telescopically connecting said structure with said rigid member.

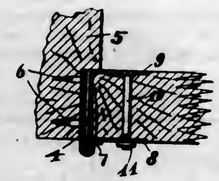
1,423,003. DISPLAY PANEL. WARREN R. MINNICK, Reading, Pa. Filed Jan. 12, 1921. Serial No. 436,686. 1 Claim. (Cl. 40—146.)

A display panel comprising a metallic backing sheet and a secondary backing sheet marginally flanged together, a metal disc interposed between said backing sheets, an aperture in said secondary backing sheet exposing part of



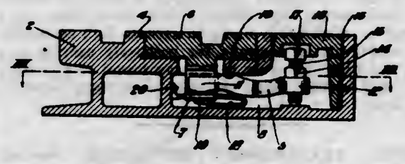
said disc, and a metallic supporting strip secured to said disc by a spot weld through said backing aperture.

1,423,004. HINGE. JOHN R. MOODY, Los Angeles, Calif. Filed Oct. 25, 1920. Serial No. 419,289. 2 Claims. (Cl. 16—135.)



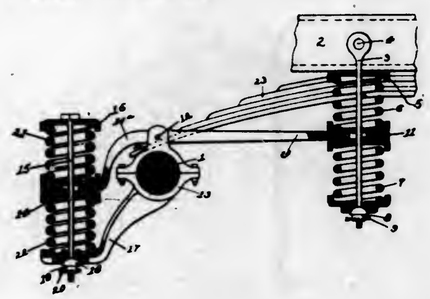
1. In a hinge, one member having means to be secured to a frame; a second member of U-shaped cross section having one shank to reach over a sash from the inside and having another shank to reach over the same sash from the outside, both shanks having perforations one hole in one shank coming into alignment with a hole in the other shank, the perforation in the outer shank being provided with threads and engaging means inserted from the inside to freely pass with its front portion through the perforations in the inner shank and to firmly engage with the threads in the outer shank to allow a drawing of the outer shank to the sash from the inside.

1,423,005. RAILWAY SWITCH. JOHN T. MOORE, Atlanta, Ga. Fled May 18, 1922. Serial No. 561,821. 8 Claims. (Cl. 246—443.)



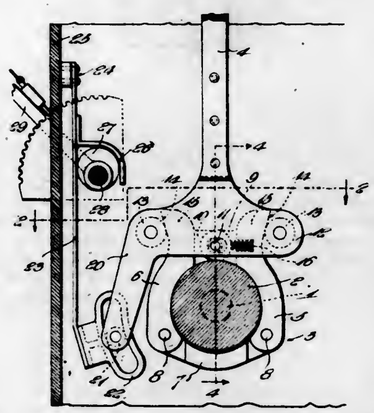
2. A switch comprising a body portion, a movable tongue mounted on said body portion, and a metallic bonding member secured to said tongue and to said body portion to form an electrical bond between said tongue and said body.

1,423,006. SHOCK ABSORBER. HARRY B. MORGAN, St. Louis, Mo. Filed June 16, 1921. Serial No. 478,107. 3 Claims. (Cl. 267—20.)



1. A spring supporting device for automobiles comprising an equalizing lever designed to be fulcrumed on the axle to one side of its center, relatively heavy springs above and below the short end of said lever, a bracket carried by the axle and co-operating with one of said springs, relatively light springs above and below the long end of said lever and a bearing for one of said springs, which bearing is relatively fixed with relation to the chassis.

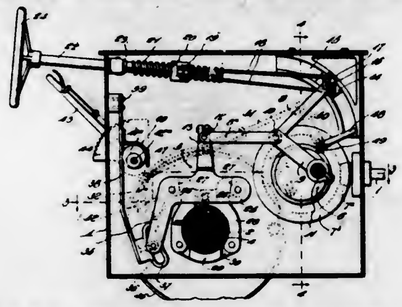
1,423,007. INTERMITTENT-GRIP DEVICE. SAMUEL STEPHEN MORTON, Harrisburg, Pa. Filed Sept. 25, 1920. Serial No. 412,739. 9 Claims. (Cl. 74—53.)



1. In an intermittent grip device, a drum, a flexible band surrounding said drum, a band-contracting lever adapted to travel bodily along an arcuate path concentric with said drum, and means for positively canting said lever, and band relatively before any travel of said lever along said arcuate path, whereby to initially contract said band.

1,423,008. TRANSMISSION MECHANISM. SAMUEL STEPHEN MORTON, Harrisburg, Pa. Filed Sept. 25, 1920. Serial No. 412,740. 19 Claims. (Cl. 180—17.)

1. In combination, two driving units adapted for positive anti-slipping connection with right and left-hand traction members, each unit being of positive-drive anti-slipping nature throughout and being adjustable for different speeds without pause in their positive anti-slipping driving; and limitaneously movable setting means operable by a single master control for setting said units



at a single operation to simultaneously accelerate one unit and decrease the speed of the other unit.

1,423,009. MECHANICAL BATTER. CHARLES H. MUCKENHIRN, Detroit, Mich. Filed June 26, 1919, Serial No. 306,853. Renewed Dec. 20, 1921. Serial No. 523,772. 18 Claims. (Cl. 25—21.)



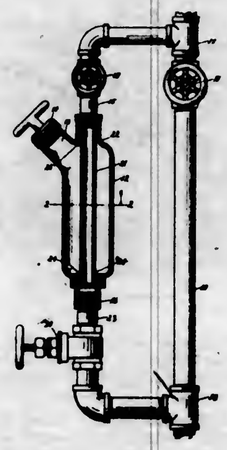
1. An apparatus of the class described, including a clay pressing and forming member, and means for oscillating said member progressively in different vertical planes.

1,423,010. SAFETY GAS VALVE. ELEANOR H. NEVICZKY, McKeesport, Pa. Filed Sept. 12, 1921. Serial No. 499,981. 3 Claims. (Cl. 251—45.)



3. In combination with a gas valve having a protruding stem, a hand wheel free to rotate on and slide longitudinally of said stem, said hand wheel being concaved toward said disk and having a fluted perimeter and said disk being of proper diameter and contour to fit in said hand wheel and interlock therewith, and a helical spring coiled about said stem between said disk and said hand wheel whereby said hand wheel is normally held out of engagement with said disk but by pushing said hand wheel along said stem, compressing said spring, said hand wheel may be interlocked with said disk and the valve may be operated by turning said hand wheel.

1,423,011. LUBRICATOR. LONNIE EDWARD OSBORNE, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Mar. 4, 1920, Serial No. 363,322. Renewed May 31, 1922. Serial No. 565,015. 3 Claims. (Cl. 184—55.)



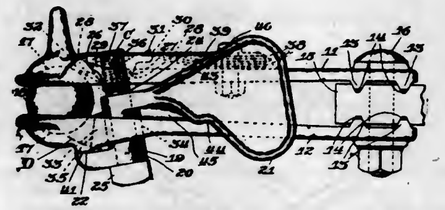
3. A lubricator comprising, in combination, a nipple screw threaded both interiorly and exteriorly at one end, a section of pipe engaged with said interior screw threads, a cylinder having restricted extremities provided with internal screw threads, one of said extremities engaged with the exterior threads of said nipple, the other extremity forming a sliding fit upon and extending beyond the free end of said pipe section, said section having ports opening into said cylinder adjacent each extremity.

1,423,012. HINGE FOR STOVES AND RANGES. STANLEY W. PALMER, Beaver Dam, Wis., assignor to Silas McClure, Beaver Dam, Wis. Filed Dec. 14, 1920. Serial No. 430,662. 8 Claims. (Cl. 16—128.)



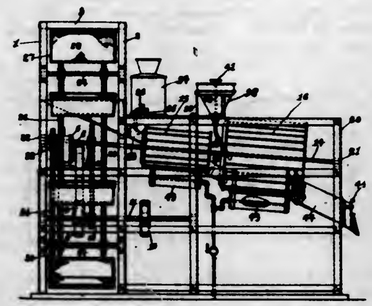
7. A range having a substantially vertical wall provided with a door opening, a door for closing the opening, and a pivotal connection between the door and the wall, said connection being at the top of the door, and offset inwardly from the plane of the door, whereby the door will be biased by gravity to swing inwardly beyond the vertical to cause the door to be pressed closely against the wall about the door opening when closed.

1,423,013. AUTOMATIC MOWER PITMAN. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Dec. 21, 1918. Serial No. 267,837. 43 Claims. (Cl. 287—89.)



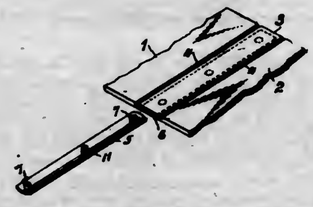
1. In a pitman having straps one of which is resilient, means including a member having rotary movement on its axis and oscillatory movement about one end for forcing said resilient strap toward the other strap when in clamping position.

1,423,014. NUT-SALTING MACHINE. MARIO PERUZZI, Wilkes-Barre, Pa. Filed Jan. 31, 1921. Serial No. 441,378. 7 Claims. (Cl. 107—43.)



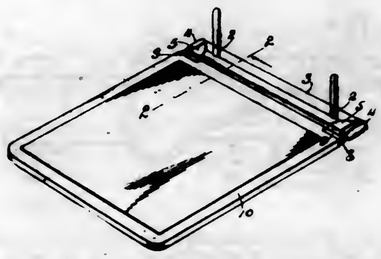
7. A machine of the class described comprising inclined communicating drums mounted for rotation, means for conveying the material to be coated into said drums, means for supplying a coating material to one of said drums and means for supplying a granular material to the other of said drums.

1,423,015. TEMPORARY BINDER. FREDERICK D. PITT and GEORGE W. NEWMAN, Kansas City, Mo., assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed July 10, 1919. Serial No. 309,928. 8 Claims. (Cl. 129—1.)



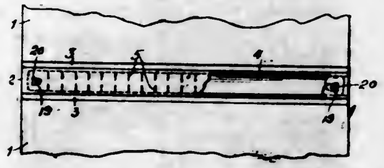
8. In a book cover attaching means, a single ply cover sheet having a pocket between the inner and outer sides thereof, said sides extending continuously from one side edge of the pocket to the other side edge thereof.

1,423,016. BINDER. WILLIAM P. PITT, Kansas City, Mo., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Mar. 28, 1921. Serial No. 456,174. 8 Claims. (Cl. 129—12.)
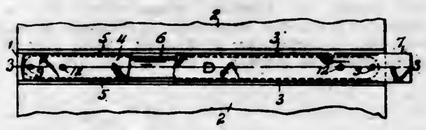


1. In a binder, a binder member comprising a body, and two end members mounted respectively on the ends of the body and having each a lip formed into a barrel adapted to receive a pintle, substantially as set forth.

1,423,017. BOOK-COVER-ATTACHING MEANS. FREDERICK D. PITT, Kansas City, Mo., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Sept. 19, 1921. Serial No. 501,606. 12 Claims. (Cl. 129—1.)



1. The method of forming a pocket for receiving a back plate in the back of a book, consisting in cutting a longitudinal row of transverse slits in the back, and horizontally severing the material from slit to slit, substantially as set forth.

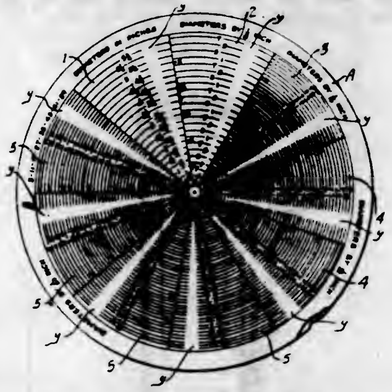
1,423,018. COVER-ATTACHING MEANS FOR BOOKS. WILLIAM P. PITT, Kansas City, Mo., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Sept. 19, 1921. Serial No. 501,527. 4 Claims. (Cl. 129—24.)



1. In a loose leaf book of the kind described, a back of a book, and a strip of flexible material sewed adjacent to its longitudinal edges to the back and adapted to form therewith a pocket for receiving a back plate, and having free ends adapted to underlap the ends of the back plate, substantially as set forth.

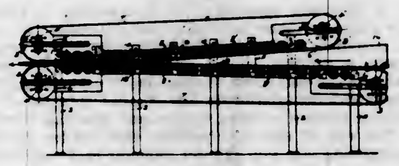
1,423,019. COMPASS SCALE. WEBSTER V. POGUE, Mount Vernon, N. Y. Filed May 27, 1920. Serial No. 384,732. 4 Claims. (Cl. 33—1.)

1. A compass scale, comprising a member provided with a plurality of segmental sections having regularly spaced arcs that are parts of circles of different diameters, the arcs of each section corresponding to a diameter of some common fraction of an inch or other standard unit of



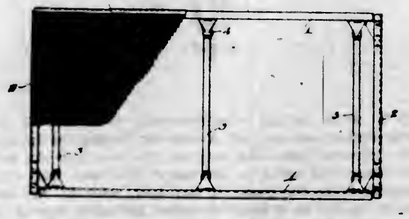
linear measurement and the arcs in each segmental section representing circles of different diameters from those represented by the arcs of the adjoining sections.

1,423,020. MOLDING MACHINE. JAMES T. POKORNY, Cedar Bayou, Tex., assignor of one-half to A. T. Eddingston, Port Arthur, Tex. Filed Sept. 18, 1920. Serial No. 411,130. 2 Claims. (Cl. 25—21.)



1. A molding machine including a fixed frame-work, an adjustable frame-work arranged above the fixed frame-work, retaining plates secured to and spaced from the fixed frame-work on each side and extending up on each side of the movable frame-work, wedge-shaped space blocks fixed to the side members of the respective frame-works, between them and the retaining plates, endless belts arranged to travel in said respective frame-works between which the material to be moulded passes, the edges of said belts passing along adjacent the apexes of said space blocks and being freed of excess material thereby.

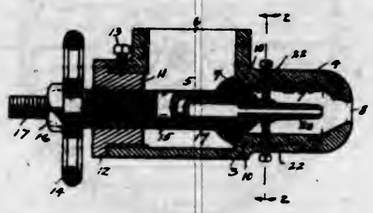
1,423,021. SCREENING APPARATUS. MORLEY PUNSHON REYNOLDS, Cleveland, Ohio, assignor to The W. S. Tyler Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 22, 1919. Serial No. 325,429. 2 Claims. (Cl. 83—36.)



1. In mechanism of the character described, the combination of spaced pairs of superimposed strips rebent

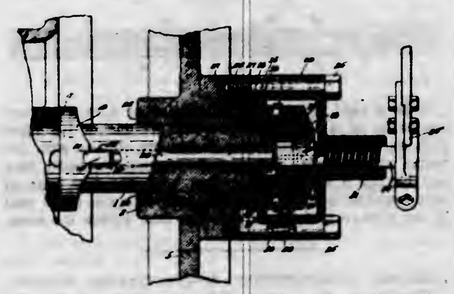
laterally upon themselves throughout their length, woven wire screens mounted upon the corresponding strips of the pairs and having their overlying edge portions clamped beneath such rebent portions of said strips and means engaging said strips for moving the same with respect to each other to tension said two screens equally and together.

1,423,022. OIL BURNER. AUSTIN A. RILEY, Indianapolis, Ind., assignor of two-thirds to Central States Bridge Company, Indianapolis, Ind., a Corporation of Indiana. Filed May 16, 1921. Serial No. 469,755. 5 Claims. (Cl. 158—76.)



4. The combination, with a valve-body having an air-inlet, a valve-seat and a nozzle outlet, of an oil-supply pipe entering the body, said nozzle supporting the oil-supply pipe centrally of the valve seat, means for centering the nozzle with the valve seat, a valve slidably mounted on the oil-supply pipe, and means extending outside of the body for adjusting the valve in its seat.

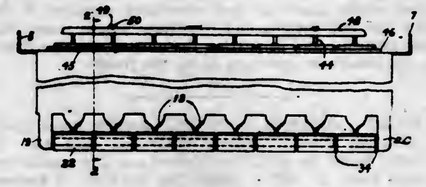
1,423,023. CLUTCH-OPERATING MECHANISM. EUGENE D. ROBERTS, Tacoma, Wash. Filed Apr. 13, 1921. Serial No. 461,115. 4 Claims. (Cl. 192—97.)



3. In a device of the character described the combination with a shaft, bearings therefor, a clutch having one member rotatably fixed on the shaft and the other member secured to a drum and rotatable upon the shaft, and a thrust-pin within said shaft of a chambered shouldered thrust collar secured upon one end of the shaft, a casing enclosing the same provided with a shoulder against which the shoulder on the thrust collar abuts, an interiorly screw threaded extension on the casing, and a thrust screw therein, of a revolving and sliding thrust block having oil channels therein fitting within the chambered thrust-collar and located between the thrust screw and the thrust pin and means between the thrust screw and the drum operable by axial movement in one direction to lock the shaft and drum together.

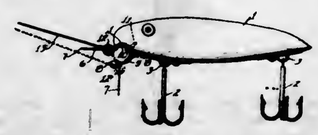
1,423,024. TOY PIANO. GEORGE E. ROBERTS, Spencer, Ohio, assignor to The Spencer Metal Products Company, Spencer, Ohio, a Corporation of Ohio. Filed July 31, 1919. Serial No. 314,461. 10 Claims. (Cl. 84—404.)

4. In toy pianos, a sheet metal key bent to form a top, a front and two side portions, said front portion being bent backwardly and then downwardly to form an overhanging lip, said side portions being bent into closer spaced relation with each other from an intermediate



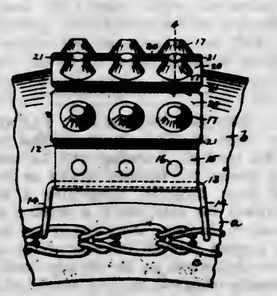
point to the rear end, and having holes adapted to receive a pivotal rod for the key and said top having a slot punched adjacent to said holes for the purpose described.

1,423,025. CONTROLLER FOR FISH LURES. CLAUDE M. RODGERS and ARTHUR W. WENGER, Warsaw, Ind. Filed May 25, 1921. Serial No. 472,477. 2 Claims. (Cl. 43—46.)



1. In a fishing lure, the combination with a rigid body of depth and oscillation controlling and stabilizing means secured thereto, said means comprising a member formed with a substantially semi-cylindrical intermediate portion having an integral laterally extending plane extension at one end and an integral laterally extending lip at the other end, and frictional members for securing the semi-cylindrical portion to the rigid body adjacent to one end of the latter, whereby the plane extension may be positioned at various angles to the plane tangent to the lower surface of the body.

1,423,026. ANTISKID ATTACHMENT FOR ELASTIC TIRES. WILLIAM T. ROLLINS, Boston, Mass., assignor to Russell Codman, Jr., Boston, Mass. Filed Mar. 25, 1922. Serial No. 546,604. 1 Claim. (Cl. 152—14.)



An anti-skid attachment unit comprising a flexible body strip of sheet material, adapted to be curved across a portion of a tire tread, and provided at its ends with anchoring devices; and a series of strip-stiffening skid-resisting elements extending transversely across the strip and inseparably united thereto, each of said elements including first, a flat-sided sheet metal plate bearing on the outer side of the body strip, bent across the longitudinal edges of the strip, and having ears bearing on the inner side of the strip, and secondly, a plurality of rivets having skid-resisting heads bearing on the outer surface of the strip, and shanks passing through the plate, the strip,

and the plate ears, and upset on the inner sides of said ears, the plates of said elements forming flat surfaces surrounding the bases of the rivet heads and protecting the major portions of the strip, said strips and their ears being spaced apart so that transverse portions of the strip are left flexible, and constitute hinges connecting said elements, and permitting the unit to conform freely to the transverse curvature of the tire tread.

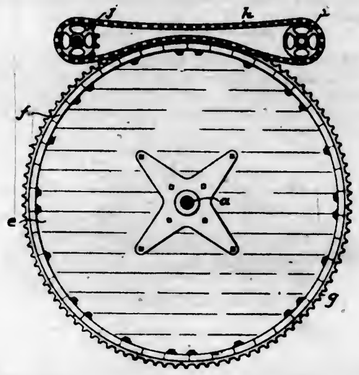
1,423,027. ARTIFICIAL TOOTH. JOSEPH ELON ROSE, Portland, Oreg. Original application filed Oct. 7, 1920, Serial No. 415,258. Divided and this application filed Sept. 21, 1921. Serial No. 502,275. 2 Claims. (Cl. 32—29.)



1. An artificial tooth comprising a thin metal crown having walls adapted to closely envelop the end and sides of a prepared natural tooth and to be trimmed and shaped to fit closely against the lingual, labial and other surfaces of the same; the labial crown-wall comprising a central protruding portion partially surrounded by a receding peripheral groove; a relatively thin labial facing accurately fitted and cemented to the protruding and groove portions of the labial crown-wall throughout the entire engaging surface and extending to its incisal edge; the rear surface of the facing and the outer and inner surfaces of the labial crown-wall being irregular, the irregularities of the rear surface of the facing being counterparts of the irregularities of the outer surface of the labial crown-wall and the irregularities of the inner surface of the labial crown-wall being counterparts of the irregularities of the labial surface of the prepared natural tooth, the mated counterparts corresponding reversely to each other thus providing intimate and exact fitting at all points; and the labial crown-wall providing a portion directly behind the incisal edge of the facing, considered in the direction of the tooth's axis, forming an impact-receiving wall to transmit to the crown, impact and strain applied to the facing at its incisal edge.

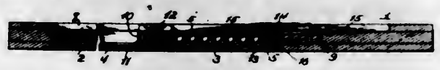
1,423,028. DRIVING MEANS FOR TANNING DRUMS. ERNEST ROTH, Philadelphia, Pa. Filed July 13, 1918. Serial No. 244,726. 1 Claim. (Cl. 74—42.)

Driving means for tanners' drums or heavily loaded drums of large diameter, comprising a shaft for the drum, bearings for said shaft, a driving shaft parallel with and above the drum shaft and at one side of a vertical plane passing through the axis of the drum shaft, a driving sprocket wheel on the driving shaft and of very small diameter relatively to the diameter of the drum, an idle sprocket wheel arranged to rotate about an axis parallel to the driving shaft spaced from, and in substantially the same horizontal planes as the driving sprocket wheel, said idle wheel being at the side of the vertical plane passing through the axis of the drum shaft opposite the driving shaft, said sprocket wheels being between two vertical planes extending through the drum, a sprocket rack on the periphery of the drum extending into the space between the sprocket wheels, above the lower plane and below the upper of said horizontal planes, and a slack sprocket chain extending around the sprocket wheels and in engagement with the sprocket rack, the sprocket wheels and the rack being so disposed with relation to each other that the upper reach thereof extends in substantially a horizontal plane, while the major portion of the lower reach is of arcuate form within the planes of the sprocket wheels, the sprocket wheels being



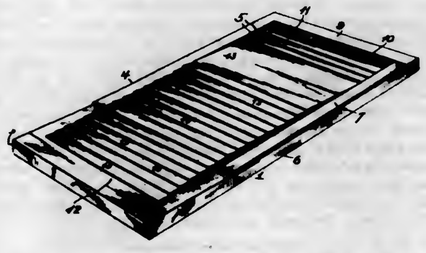
so spaced and positioned that the major portion of the lower reach of the chain is in contact with the rack and engaging a relatively large number of teeth of the rack, and is held in contact by gravity alone.

1,423,029. CARD INDEX. JOSEPH CLIFFORD RUSSELL, Pittsburgh, Pa. Filed Oct. 12, 1920. Serial No. 416,377. 4 Claims. (Cl. 129—16.)



3. In a card index, the combination of a card support consisting of a split tube provided at one of its edges with an inwardly projecting flange out of line with the centre of the tube, and a card entering the split tube and having a flange cooperating with the free edge of said inwardly projecting flange, and with the inner wall of the tube to lock the card to the tube within the same.

1,423,030. CARD INDEX. JOSEPH CLIFFORD RUSSELL, Pittsburgh, Pa. Filed Feb. 10, 1921. Serial No. 443,849. 4 Claims. (Cl. 129—16.)



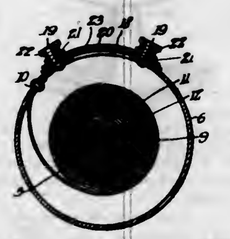
1. In a card index, the combination with a frame provided with guideways, of a card support provided with cylindrical end portions movable in said guideways and having a body portion which is partly circular in cross-section.

3. In a card index, the combination with a frame provided with guideways, of a sheet metal card holder having a slot and provided with an inwardly projecting flange, a portion of which forms one wall of said slot, said sheet metal support having its body portion partly circular in cross-section and provided at its ends with cylindrical portions, and a card entering said slot and provided with a flange depending below the free edge of the flange in said support.

1,423,031. MANUFACTURE OF OPEN-HEARTH STEEL. HERBERT C. RYDING and ANSON W. ALLEN, Birmingham, Ala. Filed July 6, 1917. Serial No. 178,931. 2 Claims. (Cl. 75—46.)

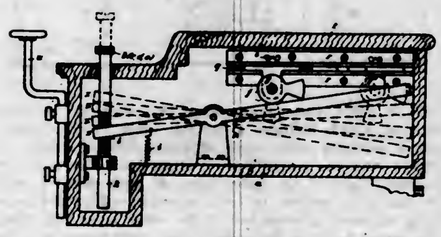
1. 1. In the manufacture of basic open hearth steel the method which comprises first providing a highly heated or molten complete slag consisting of lime and oxidizing agents in a basic open hearth furnace, and then introducing a complete charge of molten blown metal, finishing it with the initial slag in said furnace, removing the finished steel and the slag and repeating the operation with an entirely new slag for the next heat of metal.

1,423,032. SPRING MOTOR. LUDWIG SCHMITT, Chicago, Ill. Filed Apr. 11, 1921. Serial No. 460,445. 3 Claims. (Cl. 185—45.)



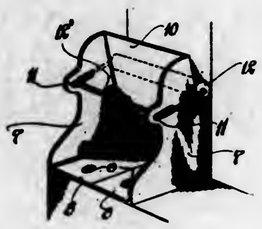
3. A spring motor of the type described, including a drum forming a spring housing, said drum having an opening in its circumferential wall for the supply of lubricant to said spring, a pair of threaded studs mounted in said wall opposite the ends of said opening, a gasket having openings fitting over said studs, a cover-plate for said opening curved endwise to conform to the curvature of said circumferential wall and formed with apertures fitting over said studs, and nuts on said studs for clamping said cover plate and gasket in place over said opening.

1,423,033. FINGER-TRAINING DEVICE. WILLIAM SCHMITT-MARCEL, Florence, Italy. Filed Mar. 11, 1921. Serial No. 451,659. 5 Claims. (Cl. 128—26.)



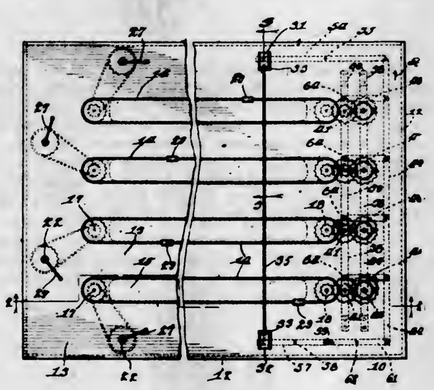
1. A finger training device, comprising movable keys, pivoted levers for actuating said keys, a shaft having a cup concentric with and encircling said shaft, and a cam for operating said levers, said cam having a hub adjustably receivable in said cup.

1,423,034. WINDOW-SASH HOLDER. HENRY L. SCHOLL, Spokane, Wash. Filed Dec. 20, 1919, Serial No. 346,222. Renewed Apr. 11, 1922. Serial No. 551,469. 1 Claim. (Cl. 292—239.)



A window sash holder consisting of an integral bracket having an attaching base plate, an inclined front plate, vertical side walls and rearwardly declining straight slots in said walls lying in a plane approximately perpendicular to the front plate, a U-shape bail journaled in the walls, a roller journaled on the bail to co-act with the front plate, and said bail adapted to form a pivot and the upper ends of the slots located in position, whereby the roller may be swung over the top of the bracket and rest on the rear edges of the walls of the bracket.

1,423,035. TOY. ERNEST G. SCHREYER, Chicago, Ill. Filed Dec. 13, 1919. Serial No. 344,580. 6 Claims. (Cl. 46—56.)

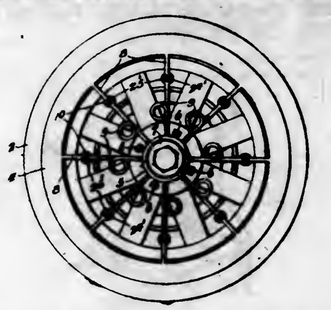


1. In a toy, the combination with a suitable frame, of a pair of spaced spindles mounted therein, a sprocket fixed on each spindle, an endless chain connecting said sprockets, a toy image fixed at a given point to each chain, hand operated elements for rotating said spindles and chain, a rotatable counting wheel, means indicating a point fixed with relation to said counting wheel, and gearing whereby the counting wheel is rotated from one of said spindles.

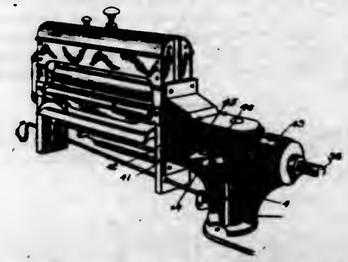
1,423,036. TIRE PROTECTOR. HOWARD H. SHANNON, Denver, Colo. Filed Mar. 5, 1921. Serial No. 449,825. 3 Claims. (Cl. 301—39.)

3. Means to prevent shredding or burning of the side of a pneumatic tire comprising an annular guard adapted

to be snugly arranged against the side of a tire and constructed for its connection to the wheel bearing the tire; said construction including spokes, and the spokes being coiled and resilient.

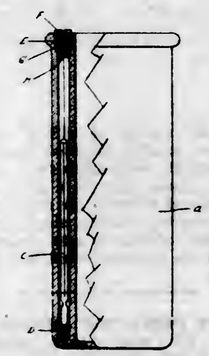


1,423,037. GEARING. HENRY SIEMEN, Kansas City, Mo. Filed June 4, 1921. Serial No. 474,918. 4 Claims. (Cl. 74—101.)



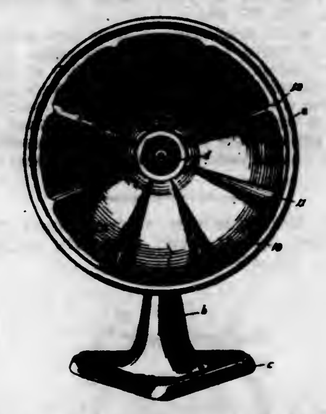
1. A gearing comprising a drive shaft, spaced gears loosely mounted on the drive shaft and having clutch faces, a clutch member intermediate the gears and having clutch faces on its respective ends to alternately engage the clutch faces on the gears, mating gears at right angles to the first named gears and meshing therewith, stub shafts fixed to the last mentioned gears, aligning shafts for the stub shafts, and sleeved clutch members for connecting the aligning shafts to the stub shafts.

1,423,038. NURSING BOTTLE. VERA I. SIMS, Sioux City, Iowa. Filed Aug. 5, 1920. Serial No. 401,335. 3 Claims. (Cl. 215—11.)



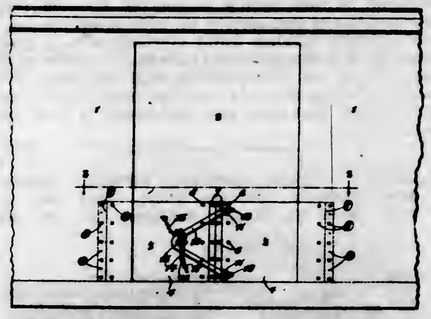
1. A straight sided glass bottle having an interior vertical cell formed integrally with the side of the bottle, open at its upper end and adapted to receive a thermometer, irregular in cross-sectional contour, the interior of the cell being engageable with the thermometer to hold it against rotary movement.

1,423,039. ELECTRIC RADIATOR. CHARLES F. SMITH and GEORGE E. CURTISS, New Britain, Conn., assignors to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 8, 1920. Serial No. 364,079. 6 Claims. (Cl. 219—34.)



1. A reflector having a dish shaped reflecting surface provided with a plurality of longitudinally and transversely curved panels and angularly disposed walls connecting the panels.

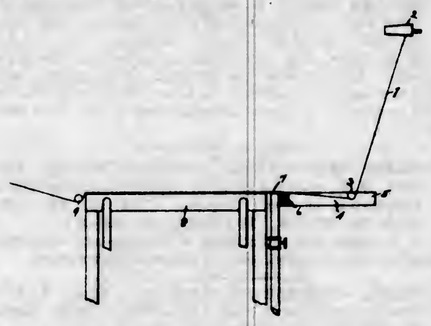
1,423,040. GRAIN DOOR. ROY E. SMITH, Iuka, Ill. Filed July 10, 1919. Serial No. 309,826. 2 Claims. (Cl. 20—30.)



1. A grain door, comprising two separate sections, each of which includes a vertical inner layer of board and a separate outer layer of board rigidly secured together and the outer layer terminating short of the vertical edges of the inner layer at both ends; a reinforcing strip secured to each extended end of the inner layer of board at each end of the outer layer and filling the spaces between the ends of the outer layers and the ends of the inner layers respectively; a V-shaped bar having the extremities of its arms pivoted to one of said sections between the two reinforcing strips secured to said section and being arranged to extend entirely across the two adjacent reinforcing strips and overlap relatively a considerable part of the other section; and a fastening

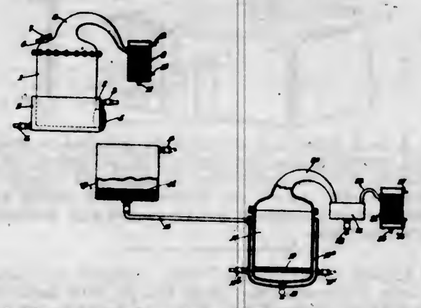
member carried by said other section between the two reinforcing strips secured to said other section arranged to be received between the arms of said bar at their point of union.

1,423,041. COMPOSITION FOR THE TREATMENT OF ARTIFICIAL SILK. CHARLES A. SNYDER, Philadelphia, Pa. Filed Sept. 3, 1921. Serial No. 498,437. 2 Claims. (Cl. 134—11.)



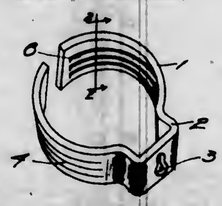
1. A composition for finishing artificial silk thread consisting of olive oil soap dissolved in water having olive oil added thereto.

1,423,042. PROCESS OF RECOVERING GLYCERINE. JOHN A. STEFFENS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Nov. 19, 1919. Serial No. 339,218. 5 Claims. (Cl. 87—4.)



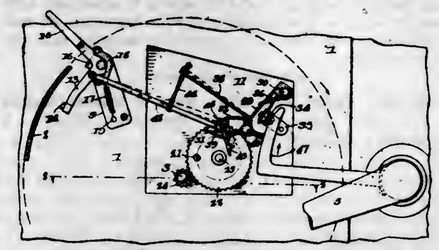
3. The process of recovering glycerine from materials subjected to alcohol fermentation comprising precipitating the organic materials with an acid, distilling off the water, and then leaching with a liquid and recovering glycerine therefrom by distillation.

1,423,043. BROOM HOLDER. FRANK H. STEINHEISER, Spokane, Wash. Filed Oct. 18, 1921. Serial No. 508,587. 2 Claims. (Cl. 24—257.)



1. A broom holder comprising a split ring of resilient metal having a slotted offset portion, said ring having opposed annular series of slits forming tongues, and said tongues having inturned sharpened edges for frictionally engaging a broom handle.

1,423,044. AUTOMATIC STOP FOR GRAMOPHONES. OLE O. STORLE, Tacoma, Wash. Filed Apr. 30, 1920. Serial No. 377,031. 5 Claims. (Cl. 192—116.)



1. In an automatic stop for gramophones the combination with a brake and means for releasably holding the brake in off position, of a trip adapted to be rotated by the rotation of the turn table, a brake releasing member movable into and out of the path of the trip, a pivoted support adapted in normal position to hold the releasing member in inoperative position, a lever carried by said support and connected with the releasing member, and a member movable with the tone arm of the gramophone and tending by engagement with said lever to shift the releasing member out of operative position as the tone arm swings inwardly over a record, the trip being adapted by engagement with said lever to periodically shift the releasing arm into operative position while the turn table rotates.

5. In an automatic stop for gramophones, the combination with a brake and means for releasably holding the brake in off position and applying it when released, of brake releasing mechanism comprising a pinion on the turn table spindle, a gear meshing with the pinion and a stationary plate on which the gear is mounted having a bearing fitting the spindle and determining the proper relation of the gear to the pinion.

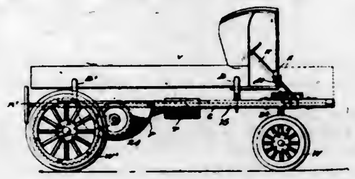
1,423,045. ELECTRICAL CONNECTOR. EMIL STRANSZKY, Dover, Ohio, assignor to The Dover Manufacturing Company, Dover, Ohio, a Corporation of Ohio. Filed Aug. 20, 1918. Serial No. 250,761. 1 Claim. (Cl. 247—13.)



A connection protector for electrical apparatus comprising a main body portion rabbetted to form a flat sur-

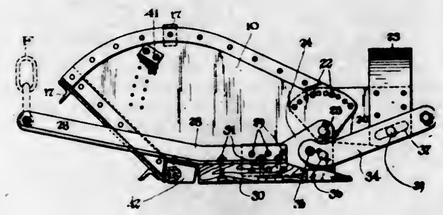
face parallel with the axis of the member and terminating in a shoulder perpendicular to said axis; a removable closure member adapted to fit in the recess formed by said two surfaces, said main and closure members together forming a complete protector of cylindrical contour; the opposing faces of the body and closure members being provided with longitudinal registering grooves adapted to receive lead wires; that part of the body portion beyond the shoulder being pierced by conduits in alinement with said grooves to receive the conductor terminals of said apparatus; and means for removably securing said closure in place.

1,423,046. FARM TRACTOR. EZRA W. TABER, Chicago, Ill. Filed Sept. 18, 1919. Serial No. 324,406. 3 Claims. (Cl. 180—41.)



1. In a tractor, a chassis, brackets adjustably mounted on said chassis, driving wheels having stub axles journaled on said brackets, said driving wheels being adapted to be selectively arranged on the inner or outer sides of said brackets, gears carried by said driving wheels, driving shafts having a differential connection and a plurality of sets of gears carried by said driving shafts, one of said sets of gears being engaged with the gears of the driving wheels when said driving wheels are arranged on the outer sides of said brackets, and the other of said sets of gears being engageable with the gears of the driving wheels when said driving wheels are arranged on the inner sides of said brackets.

1,423,047. BUCKET. WILLIAM LOVE THOMPSON, Greenville, Miss. Filed Aug. 3, 1920. Serial No. 400,906. 14 Claims. (Cl. 37—40.)



1. In a bucket of the character described, a bucket body including side plates, a back plate and a bottom plate, an adjustable extension carried by the forward end of each of said side plates, an oscillating frame carried by the bucket body including a frame member pivoted to each of the side plates, upper and lower stops secured to each of the side plates and adapted to limit the oscillatory movement of said frame, said upper stop being adjustable and serving to properly suspend the frame in elevated position, a cutting bit carried by the frame members, a long lever rigidly and directly secured to each frame member, a short lever pivotally connected to each of said frame members, guide means carried by the adjustable extensions and operatively engaged with the short lever and runners carried by each of the long levers and adapted for alternate engagement with the ground with respect to the cutting bit.

1,423,048. FUEL. BURNELL R. TUNISON, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 12, 1920. Serial No. 373,306. 21 Claims. (Cl. 44—9.)

1. A liquid fuel which is more dense than kerosene, comprising a relatively heavy hydrocarbon of an aliphatic series, and alcohol.

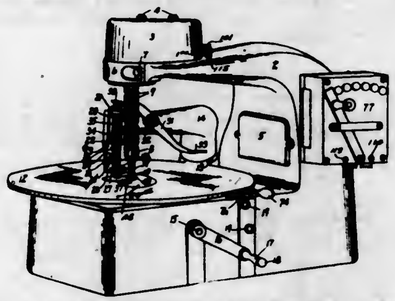
1,423,049. FUEL OF LIQUID TYPE. BURNELL R. TUNISON, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 12, 1920. Serial No. 373,307. 15 Claims. (Cl. 44—9.)

1. A liquid fuel comprising a petroleum distillate heavier than kerosene and an ester of an organic acid and a mono-hydric alcohol, the heavy oil being present in the proportion of about three-quarters of the total mixture.

1,423,050. LIQUID FUEL. BURNELL R. TUNISON, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 12, 1920. Serial No. 373,308. 11 Claims. (Cl. 44—9.)

1. A liquid fuel consisting of a petroleum distillate heavier than kerosene, and an aromatic hydrocarbon.

1,423,051. BURNISHING MACHINE. LOUIS J. VAN GUELPEN, Cincinnati, Ohio. Filed Nov. 3, 1919. Serial No. 335,516. 14 Claims. (Cl. 69—1.)



1. In a machine of the character described, a revolving spindle, feeding and presser foot mechanism, and a feeding plate for supporting the same, and capable of being moved upward and downward, said feeding and presser foot mechanism moving upward and downward with the plate.

1,423,052. BURNISHING TOOL. LOUIS J. VAN GUELPEN, Cincinnati, Ohio. Filed Feb. 18, 1919, Serial No. 277,861. Renewed Feb. 15, 1922. Serial No. 536,817. 7 Claims. (Cl. 69—1.)

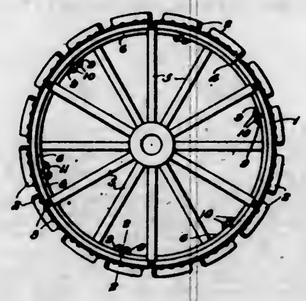


1. In a burnishing tool of the class described, a revoluble spindle, a tool carrier, said tool-carrier situated in said spindle, a removable tool capable of being attached to said tool carrier, and a heating unit also carried by said tool carrier.

1,423,053. EGG-PRESERVING COMPOUND. EDWARD VICTORINE, Cedar Rapids, Iowa. Filed Sept. 8, 1921. Serial No. 499,272. 1 Claim. (Cl. 99—1.)

An egg-preserving compound, consisting of the following ingredients in substantially the proportions stated, in parts and decimal parts by weight: calcium oxide, 148; aluminium and ferric oxides, 0.60; magnesium oxide, 1.40; sodium chloride, 99.20; calcium sulphate, 0.50; calcium chloride, 0.20; magnesium chloride, 0.05; insoluble matter and moisture, 0.05; water, 250.

1,423,054. TRACTOR-WHEEL WEIGHT. JOHN B. WALKER, Minerva, Ohio. Filed Mar. 25, 1922. Serial No. 546,591. 6 Claims. (Cl. 301—41.)



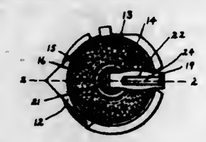
4. A tractor wheel weight comprising a plurality of arcuate sections, a lug formed at either extremity of each of said sections, a wedge engaging the lug at the extremity of one section and the lug at the extremity of the adjacent section and securing said sections together and to said wheel.

1,423,055. TOOL HANDLE. CHARLES A. WALTERS, near Marion, Iowa. Filed Mar. 12, 1921. Serial No. 451,908. 4 Claims. (Cl. 279—99.)



1. Combined with a tool-bit having a threaded stud, notched to form a key-seat, an engaging nut, a key slidable but non-revoluble therein, to engage said key-seat, and a handle having a stud threaded to engage the other end of the nut, and adapted to thrust the key into its seat.

1,423,056. SEWING-MACHINE BOBBIN CASE. LUCIUS E. WEAVER, East Hampton, Conn., assignor to Summit Thread Company, East Hampton, Conn., a Corporation of Maine. Filed Feb. 28, 1921. Serial No. 448,687. 1 Claim. (Cl. 112—233.)



A sewing-machine bobbin case comprising a central tubular post, a bobbin-confining latch pivoted within the outer end of the bore of the post, and movable to an operative position at right angles with the post, and to an inoperative position in alinement with the post, said latch having a cam-shaped arm at its inner end, means within the post for cooperation with said arm in yieldingly retaining the latch in either of said positions, the outer end of the latch being positively supported by the case, when the latch is in its operative position, said latch being provided with a longitudinal slot extending from the outer end portion of said arm, and an inherently resilient bobbin-controlling tongue fixed to the latch, at the outer end of said slot, and extending lengthwise of the slot, the tongue being shorter than the slot, and its inner end normally projecting from the inner side of the latch, and arranged to bear yieldingly on the outer end of the core of a universally wound bobbin when the latch is in its operative position, the tongue being adapted to be pressed into the slot by the bobbin, so that a bobbin of maximum length and yardage of thread may be confined by the latch and tensioned by the tongue, the edges of the slot preventing edgewise displacement of the tongue.

1,423,057. WINDOW. BENJAMIN WHIBLEY, Winnipeg, Manitoba, Canada. Filed June 16, 1919, Serial No. 304,733. Renewed Dec. 12, 1921. Serial No. 521,926. 4 Claims. (Cl. 20—521.)

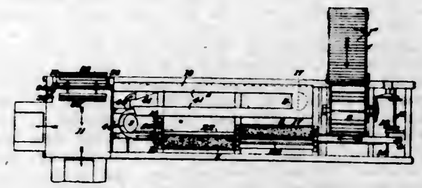


1. A window comprising a housing, inner and outer sills, an elongated opening between the sills, a permanent sash in the housing, normally resting upon the outer sill, a door normally closing the opening between the sills, a storm sash normally resting upon the door and slidably secured to the permanent sash to move relatively thereto to allow rotation of the door to clear the opening to permit descent of the sashes therethrough.

1,423,058. FUEL ADAPTED FOR USE IN INTERNAL-COMBUSTION ENGINES. MILTON C. WHITAKER, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Nov. 12, 1919. Serial No. 337,398. 7 Claims. (Cl. 44—9.)

1. A fuel comprising an alcohol above 20 parts by volume, benzol 17 to 35 parts, gasoline 20 to 50 parts, and ethyl acetate 5 to 20 parts.

1,423,059. APPARATUS FOR WASHING AND CLEANING EGGS. COLONEL J. WILLIAMSON, San Francisco, Calif., assignor to Williamson Machine Company, San Francisco, Calif., a Corporation of California. Filed Dec. 27, 1920. Serial No. 433,528. 25 Claims. (Cl. 146—14.)



1. An apparatus for the described purpose, the same comprising means for receiving and wetting the eggs to be cleaned, means for receiving and advancing the wet eggs as a stream through the apparatus, and means associated therewith for scrubbing the eggs as moved forward in their path of travel.

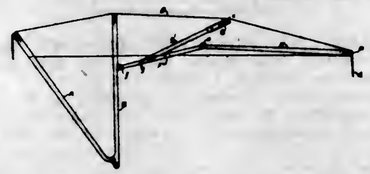
1,423,060. DISK WHEEL. JOHN F. WILMOT, Detroit, Mich. Filed Nov. 2, 1921. Serial No. 512,163. 5 Claims. (Cl. 301—63.)



1. In a vehicle wheel having a hub and a rim, a main supporting disk attached at the periphery to the rim, and a series of disks each of less diameter than the next of the series, all of the disks being secured at the center to the hub and the disks intermediate the disk of least diameter and main disk being fixedly attached to the adjacent disk only.

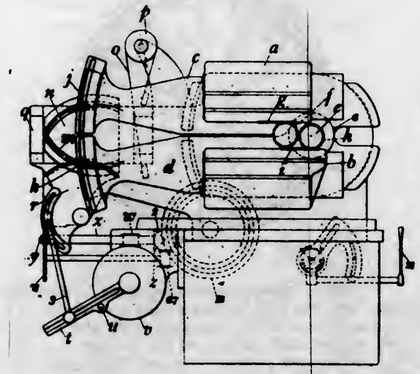
1,423,061. FOLDABLE VEHICLE TOP. JAMES THAUSTON WOLFE, Washington, D. C. Original application filed July 17, 1914, Serial No. 851,586. Divided and this application filed Nov. 19, 1917. Serial No. 202,817. 2 Claims. (Cl. 296—116.)

2. A foldable cover-support comprising a rear bow, a front bow, two-part rule-jointed side arms projecting the front bow from the rear bow and deflected upwardly to give the rear parts of the side arms upward and forward inclination and to render the side arms self-sustaining under the vertical load imposed by the cover when in shelter position, and an intermediate bow permanently pivoted to and upwardly and forwardly inclined from the rear parts of the side arms but otherwise free from connection with the side arms, and a suitably sustained cover



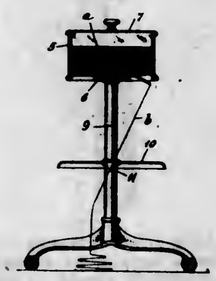
material permanently attached to the intermediate bow, and limiting its forward swinging movement upon the side arms when the top is in shelter position.

1,423,062. GEAR-CUTTING MACHINE. ISAAC HENRY WRIGHT, Salford, England. Filed June 1, 1920. Serial No. 385,688. 5 Claims. (Cl. 90—10.)



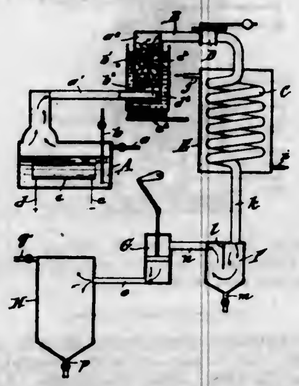
1. In gear cutting machines, the combination with a pair of balanced arms, a common pivot for said arms, means for moving said arms about said pivot, and tool carrying slides upon said arms, of a work blank carrier and means simultaneously rotating said carrier and traversing said slides on their forward or operative strokes, as set forth.

1,423,063. DISPENSING DEVICE. ADALBERT ALEXAY, Avenal, N. J., assignor to Simplex Paper Accessories Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 31, 1922. Serial No. 548,325. 6 Claims. (Cl. 211—29.)



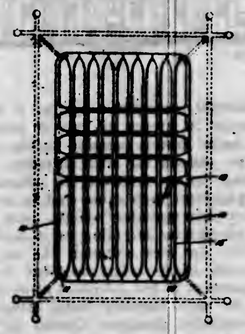
1. A dispensing device for paper napkins comprising a container, a support therefor, a stack of napkins supported in said container, and a ribbon threaded through said stack of napkins and adapted to release the napkins from said container.

1,423,064. CARBURETING LIQUID FUELS. OTTO P. AMEND, New York, N. Y. Filed June 8, 1917. Serial No. 173,665. 9 Claims. (Cl. 44—9.)



9. A colorless motor fuel, made from petroleum, having a specific gravity above .74, a bromine absorption number in excess of 125, a flashing point below zero F., over fifty per cent of which fuel is volatile at temperatures below 80° C., containing not less than thirty per cent of naphthene hydrocarbons, and free from terpenes and resinous colloidal matter.

1,423,065. BED BOTTOM. SHERMAN L. ARNOLD, Woodlawn, Pa. Filed July 26, 1921. Serial No. 487,651. 3 Claims. (Cl. 5—20.)



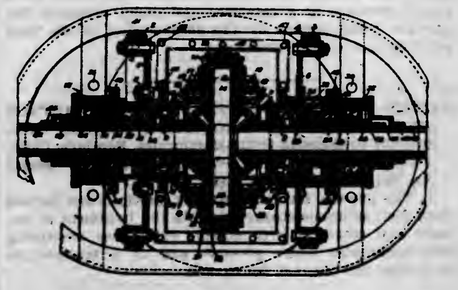
1. A bed-bottom comprising a rigid tubular metal frame, a plurality of supporting elements extending lengthwise thereof, such supporting elements being formed of rubber reinforced with textile material, the ends of such supporting elements being composed of rubber reinforced with textile material, and having apertures therein through which the end of said frame can be passed, and additional supporting elements extending crosswise of said metal frame, at the portion thereof where the greatest strain comes during normal use of the bed-bottom.

1,423,066. TEMPERATURE INDICATOR. LOUIS V. ARONSON, Newark, N. J. Filed Oct. 14, 1920. Serial No. 416,907. 1 Claim. (Cl. 116—114.)

In a device for indicating the temperature of the cooling medium of an internal combustion engine, a flexible tube adapted to extend into said cooling medium, indicating means carried by said flexible tube, a temperature responsive element contained in said tube, a flexible thermal element wound spirally upon said tube, the turns of the spirals adjacent the end of the tube being closely wound whereby to protect the end of the tube.



1,423,067. VARIABLE-SPEED GEARING. MALCOLM FORRESTER LAMBE AYMÉ AYMARD, Colchester, England. Filed Nov. 4, 1921. Serial No. 512,893. 3 Claims. (Cl. 74—34.)

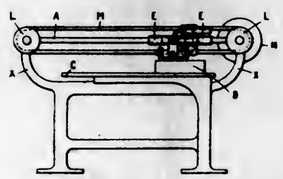


1. In a structure of the character described, a drive shaft, a friction disk carried thereby, a driving axle including separate end sections, casings for the axle sections, a differential housing, pinions carried by the inner ends of the axle sections, a shell receiving said pinions and having side tubes receiving the inner end portions of the axle sections, a pin extending radially through the shell between the pinions, pinions carried by the pin within the shell and extending between and meshing with the pinions of the axle sections, collars rotatable upon the sleeves upon opposite sides of the differential housing, friction rings received about the collars and engaging the friction disk, beveled gears carried by the collars within the differential housing, and beveled gears carried by the pin externally of the shell and within the housing and extending between and meshing with the beveled gears of the collars.

1,423,068. IRONING MACHINE. WILLIAM EXCELL BAKER, West Norwood, England. Filed Jan. 19, 1921. Serial No. 438,498. 2 Claims. (Cl. 68—8.)

1. An ironing machine comprising a flat iron, a table carried by a suitable frame over which said iron travels,

a bar or the like carried by said frame in parallel relation to said table, a pulley mounted in a bearing at each end of said bar one of said pulleys being adapted to be driven from any source of power, a flexible band running around and between said pulleys, a bracket adapted to



slide on said bar, an arm carried by and adapted to rock on said bar, flexible coupling means between said arm and said flat iron, a double acting clutch carried by said arm and adapted to engage said flexible band, and means for operating said clutch which is so connected with said iron that it partakes of all of its movements.

1,423,069. PROCESS FOR DISSOLVING OR RECOVERING METALS. HANS BARDT, Santiago, Chile, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile, a Corporation of Chile. Filed Sept. 17, 1921. Serial No. 501,418. 5 Claims. (Cl. 204—10.)

1. An electrolytic process of extracting metals from ores, matte, cupriferous waste and alloys, which comprises subjecting the metal containing materials to the action of a solution containing sulphuric and nitric acids in the presence of a catalyzer and under pressure, the pressure being formed by the electrolysing of the said solution in a closed container.

1,423,070. PROCESS FOR PRECIPITATING METALS FROM SOLUTIONS. HANS BARDT, Santiago, Chile, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile, a Corporation of Chile. Filed Sept. 17, 1921. Serial No. 501,419. 2 Claims. (Cl. 75—18.)

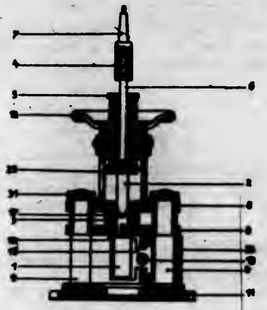
1. The process for recovering by precipitation metals from their solutions characterized by the treatment of metallic salt solutions with organic substances containing poly-saccharides under pressure and at a temperature exceeding 100 degrees centigrade.

1,423,071. PROCESS FOR MANUFACTURING ELECTRODES. HANS BARDT, Santiago, Chile, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile, a Corporation of Chile. Filed Sept. 17, 1921. Serial No. 501,420. 4 Claims. (Cl. 204—4.)

1. Process for the manufacture of electrodes, which consists in electrolysing a solution containing carbonate of manganese and an excess of perchloric acid, and employing anode material inert with respect to perchloric acid whereby a deposit of a peroxide film is formed upon the anode to serve as the desired electrode.

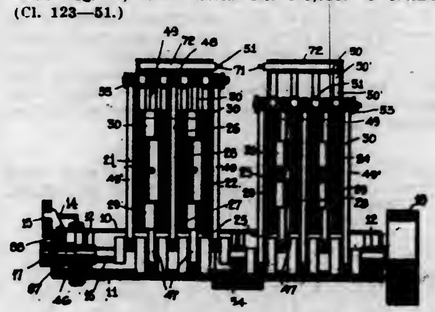
1,423,072. MEANS FOR DRILLING POLYGONAL HOLES. RUDOLF BARTHOLOMÄUS, Berlin, Germany. Filed May 5, 1921. Serial No. 466,972. 3 Claims. (Cl. 77—61.)

1. A device for drilling polygonal holes comprising a drill with a polygonal shaft, polygonal guide blocks, one side of each guide block abutting against a side of another guide block and the guide blocks being so disposed with respect to each other as to form a guide hole for guiding the polygonal shaft and corresponding in shape to the hole to be drilled, and means for altering the size of



the said guide hole by positively shifting one of the said guide blocks so as to cause each succeeding block to move the one next to it.

1,423,073. INTERNAL-COMBUSTION MOTOR. ADOLPH BEHN and JOHN GUSTAV SCHMITT, Brooklyn, N. Y. Filed Aug. 12, 1920. Serial No. 403,023. 8 Claims. (Cl. 123—51.)



4. In an internal combustion motor, a plurality of cylinders arranged in groups of two or more cylinders each cylinder water jackets common to the cylinders of each group, two pistons for each cylinder, the pistons of each cylinder being arranged to alternately move toward and away from each other and to define a combustion chamber intermediately of the ends of the cylinders, valve mechanism including an intake valve and an exhaust valve for each cylinder, the valves for the cylinders of each group being enclosed in removable valve casings common to the cylinders of such group, the valve casings in each instance being situated directly opposite the explosion chambers formed in the several cylinders, valve casing water jackets for the separate valve casings, the valve casing water jackets and the cylinder water jackets being in communication, a crankshaft, a direct connection between one of the pistons of each cylinder and the crank shaft, a separate indirect connection between the other of the pistons of each cylinder and the crank shaft, and valve operating mechanism for the valves.

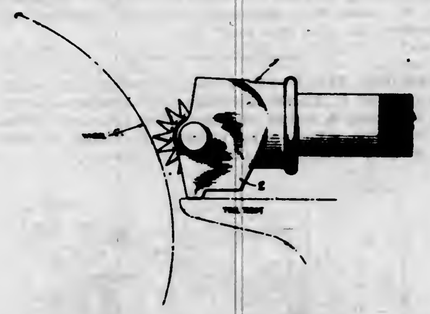
1,423,074. AIRLESS TIRE. CHARLES H. BRADEN, Los Angeles, Calif., assignor to National Airless Tire Company, Los Angeles, Calif., a Corporation of Nevada. Filed Apr. 27, 1921. Serial No. 464,806. 3 Claims. (Cl. 152—5.)

2. In a tire of the character described, an annular core having a pair of rows of cavities opening outwardly on each of the opposite sides thereof, the cavities in each row being separated by tapered columns, the cavities in one row of the pair of rows being offset in relation to the cavities in the other row, the columns of the inner row decreasing circumferentially in width toward the inner



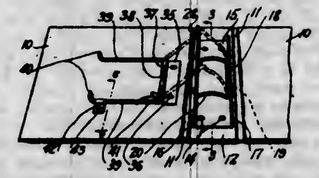
periphery of the core, and the columns of the outer row decreasing circumferentially in width toward the outer periphery of the core; there being a central body in said core extending between the inner and outer perimeters thereof separating the cavities on one side of the core from those on the other side.

1,423,075. STAGGERED-TOOTH CUTTER FOR DRESSING ABRASIVE ELEMENTS. FRANCIS C. BRANDENBURG, Piqua, Ohio. Filed May 22, 1920. Serial No. 383,435. 4 Claims. (Cl. 125—37.)



1. A cutter for a dressing tool comprising an assemblage of cutter units each having a peripheral series of sharp-pointed staggered teeth having their side faces extending diagonally of the axis of the unit, corresponding teeth of the units lying side by side throughout the series and presenting their sharp points to the face of the work piece.

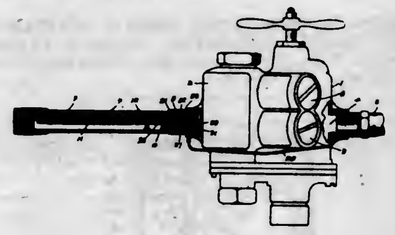
1,423,076. PAPER FILE AND BINDER. HARRY BRUNDAGE, San Francisco, Calif., assignor to George W. Koerner, New York, N. Y. Filed Dec. 10, 1920. Serial No. 429,620. 4 Claims. (Cl. 129—8.)



4. A file comprising a pair of rigid covers, a rigid backing plate hingedly connecting said covers, uprights extending in parallel from said plate, one of said uprights having a rolled edge, file prongs pivoted in said edge

adapted to extend over the other upright and enter recesses therein, a guard receptive of the ends of said prongs slidably mounted on the last named upright, stops limiting the action of said guard, spring means for frictionally holding said guard in adjustment, a fork pivoted on one of the covers, means co-operative between said fork and prongs whereby they are adapted to form continuous guides for articles disposed thereon and a clip for holding said fork when not in use.

1,423,077. OILING DEVICE. PETER WILLIAM BURKE and ANDREW JACKSON BREEDING, Bremerton, Wash., assignors of one-third to Frank Rogers, Bremerton, Wash. Filed May 26, 1921. Serial No. 472,769. 6 Claims. (Cl. 184—39.)



1. In a tool actuated by compressed air, a tubular oil chamber, a solid portion between said chamber and the working parts of the tool, a passage through said solid portion, a tube communicating with said passage extending into the oil chamber, a plunger in said chamber adapted to reciprocate on the tube, and means for diverting a part of the compressed air to actuate said plunger and to thereby force oil from the oil chamber through the tube into the working parts of the tool.

1,423,078. MUSIC-ROLL CABINET. EDWARD L. CARLSON, Denver, Colo. Filed Dec. 12, 1921. Serial No. 521,625. 2 Claims. (Cl. 211—16.)



2. A filing device for music rolls, comprising a body member of substantially rectangular shape and of considerable thickness, a longitudinal groove on each side of its upper surface, adapted to receive the end flanges of a music roll spool, and transverse channels joining said grooves and adapted to receive the body part of a music roll.

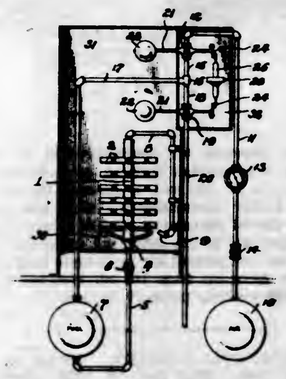
1,423,079. VANITY CASE. OSWALD J. CATHCART, Newburgh, N. Y. Filed Feb. 1, 1922. Serial No. 533,350. 7 Claims. (Cl. 132—83.)



6. A vanity case comprising a main body member, and a main cover member hinged thereto, and forming the

powder compartment, one of said members being provided with an aperture in its face, a rouge container of smaller diameter than the main body members, located within said apertured member, and in operative relation thereto, and having its outer edges substantially flush with the surface of said main member, and an independent cover member for the rouge container, comprising a flat metal plate pivoted to the apertured body member at one side of the aperture therein, and adapted to close said aperture and the rouge container when in closed position, a mirror supported on the interior of the main cover member, a powder puff located within said main body and cover members, a rouge puff of smaller diameter than the powder puff located in the rouge container, and a mirror carried on the interior of the cover for the rouge container.

1,423,080. SAFETY DEVICE FOR GAS GENERATING AND HEATING APPARATUS. WILFRID G. CHAUSSE, Detroit, Mich. Filed Aug. 8, 1919. Serial No. 316,081. 3 Claims. (Cl. 158—36.)



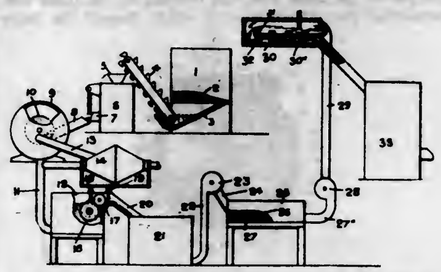
1. The combination of a gas generator, a fuel supply tank communicating therewith, a supply of air under pressure communicating with said fuel supply tank and adapted to force fuel to said generator, a burner communicating with said generator and adapted to receive gas therefrom and heat said generator, and valvular means controlling the supply of air to said fuel supply tank and adapted to automatically shut off the supply of air to said fuel tank and release the pressure of air in said fuel tank.

1,423,081. FIBER BOARD. MANLEY CHEW, Midland, Ontario, Canada. Filed Oct. 23, 1920. Serial No. 419,049. 2 Claims. (Cl. 154—45.9.)

1. As a new article of manufacture, a fiber board composed of chip waste reduced to a cooked, shredded, pressed, dried state, and waterproofed.

1,423,082. APPARATUS FOR PRODUCING FIBER BOARD. MANLEY CHEW, Midland, Ontario, Canada. Filed Oct. 23, 1920. Serial No. 419,050. 4 Claims. (Cl. 92—1.)

1. Apparatus for producing fiber board comprising a container, means for moistening and heating the chip waste therein, a beater, a conveyer between the container and beater, a screen, a chute extending between the beater and screen, a receptacle, a chute between the screen and receptacle, a cylindrical screen located in the receptacle, a co-acting felt roll cooperating therewith, a vat, a chute extending from the receptacle to the vat, an agitator, a pipe and pump between the vat and agitator, a final receptacle provided with cross slats located in the bottom, and a pipe line extending from the agitator

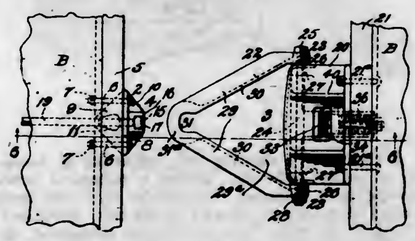


to the final receptacle, a pump located in the pipe line, and an inclined flat chute leading from the final receptacle to the press.

1,423,083. METHOD OF PRODUCING FIBER BOARD. MANLEY CHEW, Midland, Ontario, Canada. Filed Oct. 23, 1920. Serial No. 419,051. 5 Claims. (Cl. 92—1.)

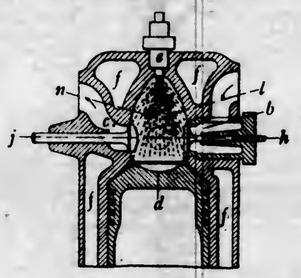
1. The method of manufacturing fiber board from chip waste consisting of steam cooking the waste, then introducing water into the mass, then beating the water permeated mass, then screening it, then agitating it and then feeding the mass now reduced to pulp in a flat stream to the press, then expressing the water therefrom and pressing the pulp into board form.

1,423,084. TRUCK COUPLING. JAMES H. COTTON and WILLIAM L. BURNER, Columbus, Ohio, assignors to The Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 23, 1919. Serial No. 319,489. 3 Claims. (Cl. 213—67.)



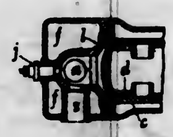
1. The herein described coupler devices for joining two adjacent trackless trucks having rigidly attached endplates normally arranged to act as bumpers when approaching each other on lines inclined at any of numerous angles, said coupler presenting a male element and a female element each secured to an end of the base part of a truck, the female element being an elongated laterally expanded loop-like device hinged at its base line to the underside of one of said plates and having a laterally expanded triangular open space terminating in an active apex at its forward extremity, said element being adapted to swing up to a horizontal position under the floor of the adjacent truck when the trucks are at either of numerous angles as aforesaid, and the male element being a lug carried by and extending downward from the center of the end plate of the adjacent truck and adapted to enter the open triangular space at the base line of the loop element and on either of several vertical lines remote from each other passing through said passageway, said male element and female element being adapted to positively compel relative movement of the cars to bring the male element to the apex of the loop.

1,423,085. INTERNAL-COMBUSTION ENGINE. KENNETH IRWIN CROSSLEY and WILFRED LE PLASTRIER WEBB, Manchester, England. Filed July 27, 1920. Serial No. 399,391. 3 Claims. (Cl. 123—32.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In internal combustion engines, the combination comprising an oviform combustion chamber, an oil injector sprayer at the smaller end of said chamber, a piston forming the larger end of the chamber and air admission and exhaust valves at respective sides of the chamber, as set forth.

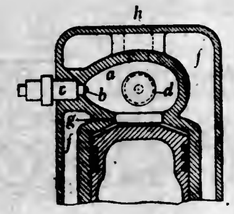
1,423,086. INTERNAL-COMBUSTION ENGINE. KENNETH IRWIN CROSSLEY and WILFRED LE PLASTRIER WEBB, Manchester, England. Filed July 27, 1920. Serial No. 399,392. 2 Claims. (Cl. 123—32.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In four stroke cycle internal combustion engines, the combination comprising a combustion chamber in part rectangular and having a circular opening at one end of less cross sectional area than the said rectangular part and a semi-circular closure at the opposite end, admission, exhaust and starter valves on the respective sides of the said rectangular part, a piston having a projecting part thereon entering the said circular opening in the combustion chamber, and fuel injecting means in the said semi-circular end of the combustion chamber injecting the fuel in the form of spray and diffusing it throughout the compressed and heated air in the combustion chamber towards the end of the compression stroke so that vaporization and ignition of the fuel occurs before the spray can impinge upon any metal surface, as set forth.

1,423,087. INTERNAL-COMBUSTION ENGINE. KENNETH IRWIN CROSSLEY and WILFRED LE PLASTRIER WEBB, Manchester, England. Filed July 27, 1920. Serial No. 399,393. 3 Claims. (Cl. 123—32.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In internal combustion oil engines, the combination comprising a cylinder, an oviform combustion chamber, a water jacket contacting with the larger end of the said chamber, an oil injector nozzle at the smaller end of the



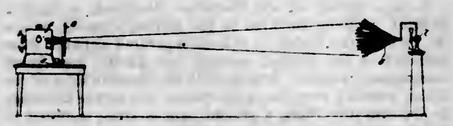
chamber, an air admission valve on one side, an exhaust valve on a second side and an opening to the said cylinder on a third side of the chamber, as set forth.

1,423,088. INTERNAL-COMBUSTION OIL ENGINE. KENNETH IRWIN CROSSLEY and WILFRED LE PLASTRIER WEBB, Manchester, England. Filed July 27, 1920. Serial No. 399,396. 4 Claims. (Cl. 123—32.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In four stroke cycle internal combustion oil engines, the combination comprising a cylinder, an ellipsoidal combustion chamber having its longitudinal axis at right angles to the axis of the said cylinder, an oil injector at an end of the said chamber, admission and exhaust valves at the upper side of the chamber and a water jacket on the exterior of the cylinder and chamber, as set forth.

1,423,089. METHOD OF PRODUCING COLOR EFFECTS. ALLERTON S. CUSHMAN, Washington, D. C. Filed June 10, 1921. Serial No. 476,595. 3 Claims. (Cl. 46—70.)

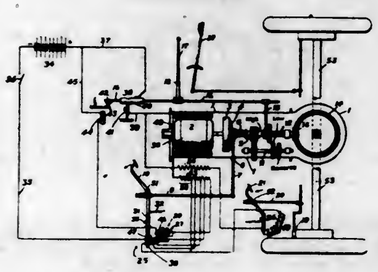


2. A method of producing color effects which consists in projecting successively and intermittently separate beams of differently colored light upon a moving object having a large number of independently moving parts, at such rate of succession that the different parts exhibit separate and distinctive color effects.

1,423,090. ELECTRIC MOTOR VEHICLE. JAMES KENDALL DELANO, New York, N. Y. Filed July 21, 1920. Serial No. 397,964. 12 Claims. (Cl. 172—179.)

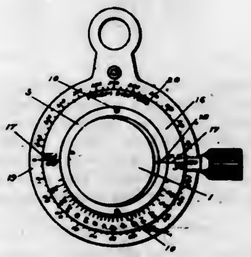
4. The combination, with vehicle running gear, an electric motor, and clutch means operable to connect or disconnect said running gear and motor, of motor-controlling means connected to and operable in conjunction with said

clutch means, mechanical brake means operable to act upon said running gear, and further motor-controlling



means connected to and operable in conjunction with said mechanical brake means.

1,423,091. OPTICAL INSTRUMENT. HENRY L. DE ZENG, Moorestown, N. J. Filed May 21, 1920. Serial No. 383,058. 5 Claims. (Cl. 88—20.)



1. In a device of the character described, a holding element, a pinion mounted in the holding element, means for turning the pinion, a pair of separated annular rings mounted in the holding element and having gear teeth therearound adapted to mesh with the opposite sides of the pinion whereby rotation of the pinion will rotate the rings in opposite directions, a second pair of rings mounted in the first pair of rings and out of engagement with the holding element, removable means for securing the second pair of rings to the first whereby the second pair of rings may be removed from the device without removing the first pair of rings from the holding element, and a pair of lenses mounted in the second pair of rings.

1,423,092. OPTICAL INSTRUMENT. HENRY L. DE ZENG, Moorestown, N. J. Filed Apr. 16, 1921. Serial No. 461,794. 6 Claims. (Cl. 88—20.)

1. In a hand supported ophthalmologic instrument, a handle grip having a light chamber, a source of light in the light chamber, a reduced channel section beyond the handle grip, a diaphragm cross plate in the channel portion having an orifice smaller than the cross section of the channel, a supporting plate having a sighting orifice secured to the outside of the reduced channel portion and extending substantially parallel with and beyond the end



thereof, and an inclined mirror having an orifice secured to the supporting plate in alinement with the channel portion.

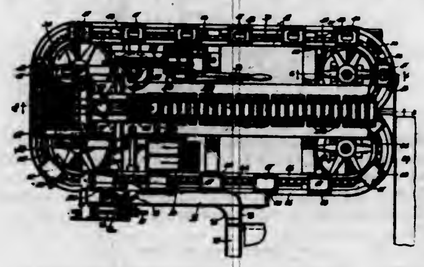
1,423,093. METHOD OF AND APPARATUS FOR SEALING VACUUM JACKETS. JOHN L. FATE, Chicago, Ill.; Daisy L. Fate, executrix of said John L. Fate, deceased, assignor, by mesne assignments, to C. Roy Gleason, Chicago, Ill. Filed Oct. 23, 1918. Serial No. 259,390. 10 Claims. (Cl. 113—82.)

1. The method of exhausting and sealing a jacket having an opening through which air is exhausted and surrounded by a depression forming a trap, which embraces the steps of applying a fusible medium in said trap, applying a sealing cap over said opening in contact with said fusible medium, evacuating the jacket and forming a vacuumised space within a conduit around said opening, thereafter applying heat to said fusible medium through said cap while in the air exhausted space, whereby the sealing medium is trapped and the cap is sealed to the jacket over the opening, and finally releasing the vacuum in said vacuumised space.

10. Means for exhausting and sealing a jacket having an exhaust opening and around said opening a trapped depression, comprising a rimmed cap over said opening adapted to be primarily supported at its margin by solid fusible particles within said depression, an exhaust tube

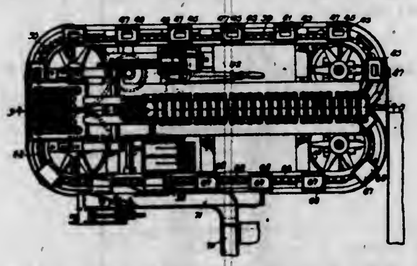
adapted for connection with a vacuum pump and having an open end adapted for sealing connection with the jacket wall around said exhaust opening, and an endwise spring pressed electrical heating element within said tube adapted for connection to an electric circuit and for pressure contact centrally against said cap.

1,423,094. CARTON-SEALING MACHINE. JOHN L. FERGUSON, Joliet, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 29, 1913, Serial No. 787,371. Renewed July 16, 1919. Serial No. 311,381. 55 Claims. (Cl. 93—6.)



33. A machine comprising mechanism for operating with respect to articles, and two conveyors, each during its travel, carrying said articles in position for said mechanism to operate with respect thereto.

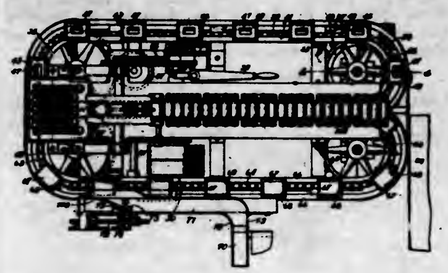
1,423,095. CONVEYER. JOHN L. FERGUSON, Joliet, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Original application filed Aug. 29, 1913, Serial No. 787,371. Divided and this application filed Apr. 10, 1920. Serial No. 372,746. 19 Claims. (Cl. 198—102.)



2. A conveyer mechanism including the two conveyers traveling throughout a portion of their length in separate paths and traveling together throughout a portion of their length, and means for transferring articles from the first conveyer to the second conveyer after said articles have traveled past the common portion of the paths on the first conveyer, whereby the articles will be caused to travel twice in the common path, once on the first conveyer and once on the second conveyer.

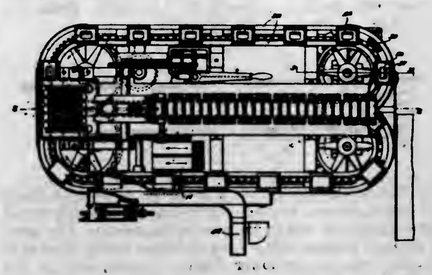
1,423,096. TRANSFER MECHANISM. JOHN L. FERGUSON, Joliet, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Original application filed Aug. 29, 1913, Serial No. 787,371. Divided and this application filed Dec. 26, 1918, Serial No. 268,267. Renewed Oct. 9, 1920. Serial No. 415,948. 25 Claims. (Cl. 198—20.)

1. The combination with an endless conveyor, of a device for effecting the removal of articles laterally one by one from said conveyor, said device including a rotating member having its axis transverse to said conveyor located in the path of the articles carried by said conveyor and adapted to be peripherally engaged by such



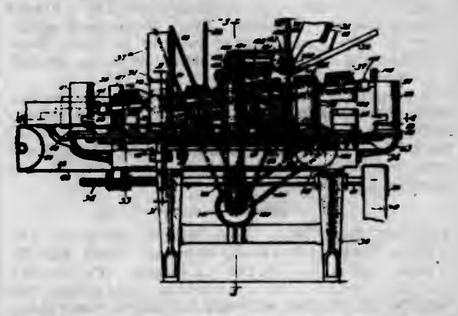
articles, said member having a gap in the periphery thereof for permitting the passage of one article at a time.

1,423,097. CARTON-HANDLING APPARATUS. JOHN L. FERGUSON, Joliet, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Original application filed Aug. 29, 1913, Serial No. 787,371. Renewed July 16, 1919, Serial No. 311,381. Divided and this application filed Jan. 14, 1921, Serial No. 437,319. Renewed June 13, 1922. Serial No. 567,974. 13 Claims. (Cl. 93—36.)



1. In a machine of the character described, carton supporting means, a driving member for moving said carton supports, a source of compressed air positioned to supply said air to remove said cartons from said supports, and means depending from said driving member comprising a member to open and close said compressed air source.

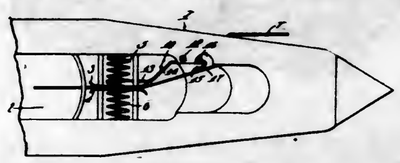
1,423,098. DEVICE FOR OPERATING ON CONTAINERS. JOHN L. FERGUSON, Joliet, Ill. Filed Jan. 25, 1917, Serial No. 144,551. Renewed Mar. 1, 1921. Serial No. 448,744. 55 Claims. (Cl. 113—27.)



1. A machine for placing peripherally flanged closures in closing position with respect to the openings of

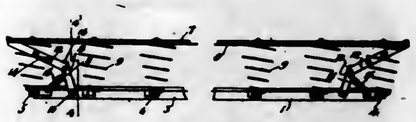
containers comprising a conveyor for the containers a guide member for traveling along with the containers and means whereby said guide member is positioned between the inner surfaces of the flanges of the closures and adjacent portions of the containers to guide the closures and the containers in their relative movement.

1,423,099. SHUTTLE ATTACHMENT. HOWARD LEROY FONNER, Altoona, Pa. Filed Apr. 4, 1922. Serial No. 549,442. 4 Claims. (Cl. 139—46.)



1. The combination with a weaving shuttle having thread engaging jaws and a thread exit eye; of a thread cutter mounted therein between said jaws and eye, said cutter having an arm positioned to be actuated by one of said jaws to throw the cutter into cutting engagement with the thread when excessive tension is placed on the thread.

1,423,100. BEDSPRING ATTACHMENT. ROBERT BRUCE GALLAGHER and REGINALD CHESNEY YOUNG, Winnipeg, Manitoba, Canada. Filed July 12, 1921. Serial No. 484,149. 3 Claims. (Cl. 5—29.)



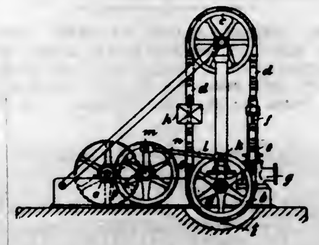
1. The combination with a mattress, presenting upper and lower frames having cushioning springs interposed therebetween, of means for preventing relative side sway of the said frames, said means including levers pivoted to the side rails of the lower frame to swing only in the longitudinal direction of the rails, links connecting the free ends of the levers to the side rails of the upper frame, stops on the levers engageable with the links to limit upward swinging of the latter beyond a position substantially at right angles to the levers, and springs connected between the levers and the lower frame normally holding the levers inclined toward the ends of the frames and tending to resist the swinging movement of the levers occasioned by depression of the upper frame.

1,423,101. PROCESS OF PREPARING OPTICALLY-ACTIVE AROMATIC AMINOALCOHOLS. ALFONS GAMS and ERNST WYBERT, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Oct. 14, 1921. Serial No. 507,763. 1 Claim. (Cl. 260—128.)

A process for the preparation of optically active aromatic aminoalcohols, which consists in reducing optically active salts of the corresponding aminoketones, separating the salts of the optically isomeric aminoalcohols formed from each other, and transforming them into the free bases by the usual methods.

1,423,102. GEAR FOR WELL PUMPS. HEINRICH WILHELM GERKEN, Wandsbek, Germany. Filed Jan. 31, 1922. Serial No. 533,114. 2 Claims. (Cl. 74—14.)

1. Gear for well pumps, comprising three pulleys, two being journaled about a common axis and the third pulley being journaled at a distance above the said two pulleys, a sectional chain, one section surrounding the upper pulley and the lower section being doubled and surrounding the said two lower pulleys, a cross head on one side of the endless chain attached at its center to the upper section of the chain and to the upper end of the piston rod of the well pump, and the two ends of the cross head being



attached to the ends of the lower double section of the chain on one side, the ends of the chain on the other side being attached to a balance weight adapted to balance the weight of the piston rod, means to reciprocate the endless chain to an extent corresponding to the stroke of the pump.

1,423,103. COOLING COMPOUND FOR HOT JOURNAL BOXES AND PROCESS FOR PRODUCING THE SAME. JULIUS Q. GILL, Peoria, Ill. Filed Aug. 2, 1920. Serial No. 400,634. 5 Claims. (Cl. 87—9.)

1. A cooling compound for hot boxes, which consists of corn oil, castor oil and caustic alkali in such proportion as to form soap, a small amount of free alkali, ivory black, methyl salicylate, and water in such proportion as to constitute more than 50% of the mixture.

1,423,104. EXTENSIBLE LADDER FOR FIRE ESCAPES. RICHARD GLASSER, San Francisco, Calif. Filed Apr. 27, 1921. Serial No. 464,852. 5 Claims. (Cl. 228—19.)



1. A drop ladder comprising a stationary and a plurality of movable vertical sections, one movable section being slidably secured to the stationary section and the next movable section to the first one, means secured to the stationary section adapted to engage and impart vertical motion to the first movable section, a pulley secured to the upper part of the latter, and a flexible connection between the bottom of the stationary section and the top of the second movable section being led over said pulley adapted to transmit the vertical motion of the first movable section to the second movable section at twice the velocity of the first movable section.

1,423,105. BOTTLE CAP. SVEND HANSEN, New York, N. Y. Filed Sept. 13, 1921. Serial No. 500,407. 1 Claim. (Cl. 215—38.)



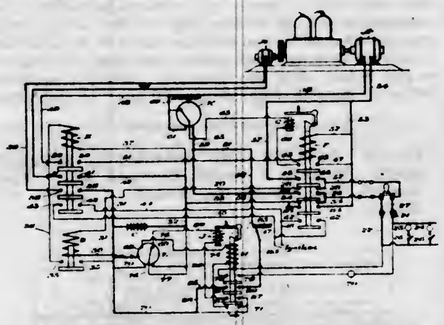
The combination with a bottle cap of a cork disk located therein, and corresponding in diameter to the internal diameter of the cap, so as to cover the inner face of the same, and a metal disk of smaller diameter than the diameter of the cork, applied to the exposed face of the cork and formed with integral prongs projecting through the said cork.

1,423,106. BOTTLE CAP. SVEND HANSEN, New York, N. Y. Filed Sept. 13, 1921. Serial No. 500,408. 1 Claim. (Cl. 215—38.)



The combination of a metal bottle cap with a ring of cork inserted therein, and a metal cup inserted into the center of the cork to bear against the inner face of the cap and formed with a flange overlapping the inner edge of the face of the cork.

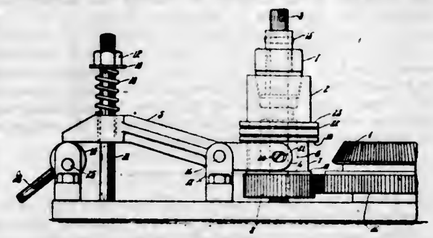
1,423,107. ELECTRICAL GENERATING SYSTEM. HARRY A. HARRINGTON, Cuyahoga Falls, Ohio. Filed Jan. 10, 1920. Serial No. 350,641. 13 Claims. (Cl. 290—30.)



8. In an electrical generating system, the combination with an electrical generator; a battery; a prime mover; an electrical motor for starting the prime mover; and a main distributing circuit including current consuming devices; of a system of control for said apparatus comprising a main distributing circuit switch; an auxiliary switch for controlling the starting motor and an interlock operated by said auxiliary switch for interrupting the actuating circuit for the main switch when the auxiliary switch is open.

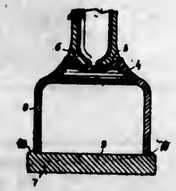
1,423,108. CLUTCH MECHANISM. JOHN ALLEN HEANY, New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation, a Corporation of Delaware. Filed Jan. 24, 1919. Serial No. 272,870. 2 Claims. (Cl. 192—66.)

1. A friction clutch mechanism comprising: a vertical driven shaft, a cone clutch member attached to said shaft, a cone clutch member rotatably mounted on said shaft below said clutch member attached to said shaft, means for rotating said rotatably mounted clutch member, a sleeve on said shaft beneath said rotatably mounted clutch member for moving said clutch member vertically into and out of engagement with said clutch member attached to said shaft, a ball bearing device between the top of said sleeve and said rotatably mounted clutch member, a horizontally pivoted lever extending away from said shaft and arranged to actuate said sleeve, a spring arranged to bear



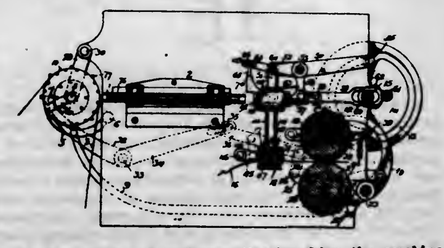
downwardly on the outer end of said lever to thereby tend to raise the rotatably mounted clutch member into engagement with the clutch member attached to said shaft, and a manually operable cam member arranged to engage the outer end of said lever for moving the lever against the action of said spring to clutch-disengaging position.

1,423,109. METHOD OF PRODUCING WHEELS. JACOB LUDVIG HELLEN, Kloften, Norway. Filed Dec. 30, 1919. Serial No. 348,417. 2 Claims. (Cl. 29—174.)



1. A method of constructing water-tight hollow metal wheels consisting in forming hollow metal spokes, thickening the outer ends of said spokes and providing the thickened ends with spherical end surfaces, forming a hub and placing the inner ends of said spokes in said hub, forming a metal ring into a felly of channel-shaped cross-section with the mouth opening outwardly, providing the bottom of the channel with integral spaced spherical seats corresponding to the number of spokes in the hub, placing the spherical ends of the spokes in engagement with the spherical seats, reducing the circumference of said felly to cause the same to grip the spokes, and placing a rim over the mouth of said channel.

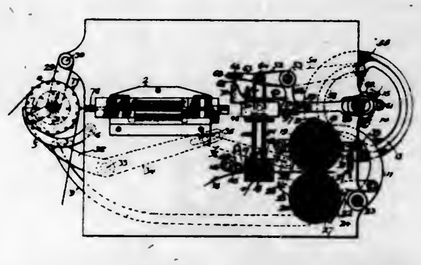
1,423,110. JACQUARD-CARD REPEATING AND TRANSPOSING MACHINE. LOUIS HERZOG, Beacon, N. Y., assignor to Glenham Embroidery Company, Beacon, N. Y., a Corporation of New York. Filed Sept. 1, 1920. Serial No. 407,428. 7 Claims. (Cl. 164—114.)



1. In a jacquard-card repeating machine the combination of selecting members adapted to be actuated by a

master jacquard card and members for perforating the repeat card, controlled by said selecting members, certain of said selecting members being adapted to control the perforations affecting the extent of movement devices in an embroidering machine jacquard, and others of said selecting members being adapted to control the perforations affecting the direction of movement devices in the jacquard, means for actuating corresponding perforating members according to the operation of said selecting members which control the extent of movement devices, and means for causing the transposition in the operation of certain other perforating members by said selecting members which control the perforations for the direction of movement devices of the jacquard.

1,423,111. JACQUARD-CARD REPEATING AND TRANSPOSING MACHINE. LOUIS HERZOG, Beacon, N. Y., assignor to Glenham Embroidery Company, Beacon, N. Y., a Corporation of New York. Filed Sept. 1, 1920. Serial No. 407,429. 3 Claims. (Cl. 164—114.)



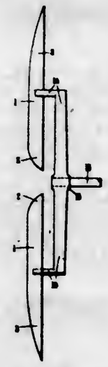
1. In a jacquard-card repeating machine the combination of punching members for making rows of perforations in a repeat jacquard-card, and consisting of a plurality of groups or series, platens adapted to individually lock the punching members for operation, slides operated by a master jacquard-card comprising a plurality of groups or series and means connecting the individual slides in said groups with individual platens bearing similar relative positions, but in different groups of said platens, whereby the operations of said slides are transposed to effect the transposition of the perforations in the repeat card.

1,423,112. OIL CUP. FRANK O. HOAGLAND, Bridgeport, Conn., assignor to The Bilton Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 22, 1920. Serial No. 375,687. 2 Claims. (Cl. 184—95.)



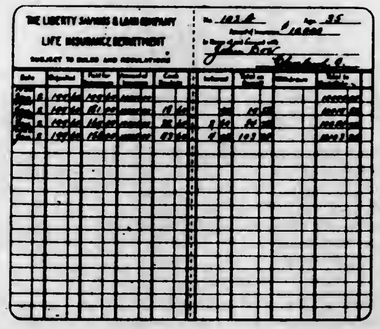
1. An oiler of the class described, including a casing having a pocket formed therein adapted to be closed by a screw and provided with a threaded and plain side wall portion, a hollow screw adjustably mounted in the pocket and having part only of its periphery threaded to adjustably engage the threaded portion of the socket and provided with means to limit its withdrawal movement, said screw further including a side filling opening below the head of the screw and positioned to be closed when the screw head is seated.

1,423,113. SCREW PROPELLER AND THE LIKE. ALEXANDER ALBERT HOLLS, Hyde Park, London, England. Filed Jan. 21, 1922. Serial No. 530,952. 4 Claims. (Cl. 170—159.)



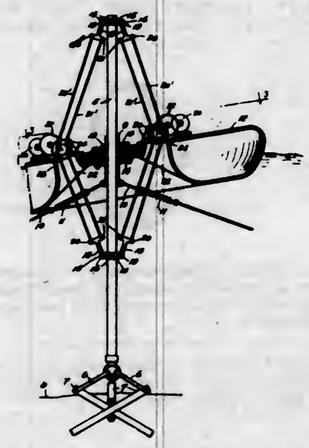
1. A blade for screw propellers, windmills, and like fluid operating or operated mechanisms comprising a central part and two end parts, the shape in plan of the central part being quadrangular and its shape in cross section being such that its chord gradually increases from its inner side and its camber and angle of incidence relative to the helical plane decreases towards its outer side; and the shape of each of the end parts in plan being such that it is cut away from its point of junction with the central part so as to bring its leading edge back until it meets its trailing edge, which is a continuation of the trailing edge of the central part, and the shape of each of said end parts in cross section being such that its chord, camber and angle of incidence to the helical plane are gradually reduced from their points of junction with the central part to their tips.

1,423,114. SAVINGS AND INSURANCE ACCOUNT BOOK. EVERETT J. HOUSE, Cleveland, Ohio. Filed May 11, 1920. Serial No. 380,580. 1 Claim. (Cl. 283—57.)



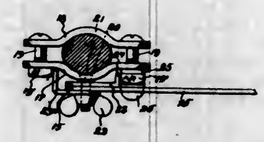
Means for facilitating the keeping of depositors' accounts with associated savings and insurance organizations, consisting of a pass book the pages of which have successively arranged, appropriately headed columns for entering the date of deposits, amount of deposit, amount paid for insurance, amount of insurance, cash-savings, interest, total on deposit, withdrawals, and total to beneficiary.

1,423,115. WAVE MOTOR. OSCAR HULTBERG, Seattle, Wash. Filed Apr. 11, 1921. Serial No. 460,452. 4 Claims. (Cl. 253—10.)



1. In a wave-motor, the combination of a mast, means to maintain said mast substantially vertical, a floatative vessel, means for connecting said vessel to the mast to rise and fall with the waves, wheels provided on said vessel, cables extending through the vessel and connected above and below the same to said mast, means provided on said wheels whereby the latter are caused by said cables to be rotated in the same directions during both the upward and downward wave impelled movements of the vessel.

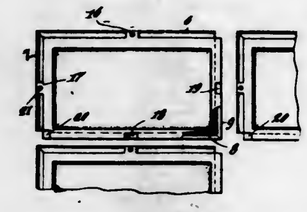
1,423,116. WINDSHIELD AWNING. EARL H. HUTCHESON, Augusta, Ga. Filed July 2, 1921. Serial No. 482,115. 2 Claims. (Cl. 296—95.)



2. An attachment of the character described including opposed clamps, bolts passing through the ends of the clamps and having nuts, a pivot bolt projecting from one of said clamps, an oscillatable member mounted on the pivot bolt, washers disposed on each side of the oscillatable member and through which the pivot bolt passes, and a nut on the pivot bolt bearing against one of said washers, each of said washers being provided with lugs engaging against the first named nuts and holding said nuts from rotation and being held from oscillation by said nuts.

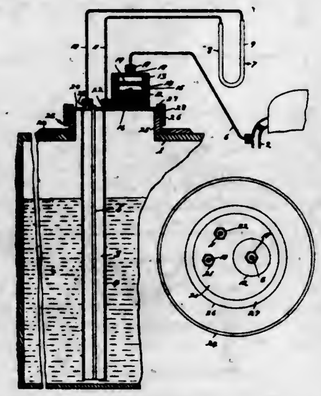
1,423,117. TILE. BENJAMIN P. INFANTINO, New York, N. Y. Filed Feb. 14, 1919. Serial No. 277,056. 1 Claim. (Cl. 72—19.)

A tile having tongues approximately midway of its thickness along its top and one end edge, and grooves along the bottom and other edge, said tongues each having a laterally extending portion constituting a filler lug having a portion arranged flush with the back face of the tile, each tongue having an opening extending through the same and the filler lug for the insertion of



a fastening device, and the rear walls of the grooves being provided with notches adapted to snugly receive the filler lugs of contiguous tile.

1,423,118. DEPTH-INDICATING DEVICE. HORACE W. KING, Ann Arbor, Mich. Filed Apr. 1, 1920. Serial No. 370,417. 6 Claims. (Cl. 73—54.)



1. In a depth indicating device for liquids, the combination with a closed tank containing a liquid, of a chamber communicating with the air outside said tank and with the liquid in said tank, a suction pipe connected to said tank for producing a vacuum therein sufficient to draw air into said chamber for displacing the liquid down to the point of communication of said chamber with the liquid, means for preventing the passage of the liquid from said tank through said suction pipe, and a pressure gage in communication with said tank above the level of the liquid therein.

1,423,119. HOLDER FOR ELECTRIC LAMPS AND THE LIKE. JAMES F. KING, Worcester, Mass. Filed Sept. 9, 1921. Serial No. 499,437. 2 Claims. (Cl. 248—20.)

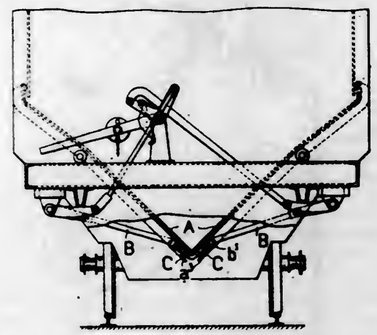
2. As an article of manufacture, a holder for electric lamps and the like comprising a wire coil the ends of which extend therefrom in a plane transverse to the plane of the coil, and diverge from each other, said arms extending inwardly from their extremities and crossing each other, and having a pair of flexible parallel surfaces on their extreme ends for engaging on opposite sides to a flat article, whereby the natural re-

siliency of the wire will hold said surfaces together and apply pressure to the opposite sides of an article to



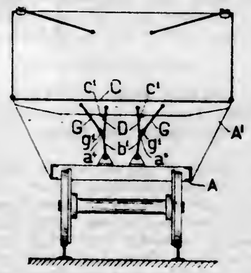
which they are applied and whereby pressure applied inwardly to said arms will release the grip.

1,423,120. LOCKING MECHANISM FOR THE DOORS OF SELF-DISCHARGING RECEPTACLES. PAUL KRÜGER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 14, 1921. Serial No. 507,735. 2 Claims. (Cl. 105—38.)



1. In a locking mechanism for doors, an operating element for each door, a bolt pivotally secured to each door and pivotally secured to the associated operating element, each bolt engaging in the loading position of the doors behind the edge of the other discharge door.

1,423,121. DUMPING CAR. PAUL KRÜGER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Mar. 17, 1922. Serial No. 544,542. 2 Claims. (Cl. 105—260.)



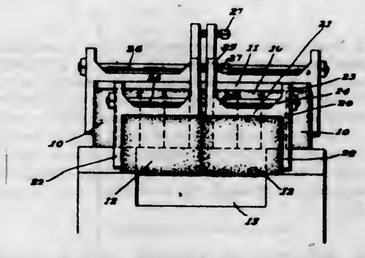
1. In a dumping vehicle a body provided with end walls, a bottom tiltable to either side about laterally disposed axes and crank-arms located on each side of the central longitudinal plane, and links positively connecting said bottom to said end walls.

1,423,122. CONFETTI BOMB. JAMES KYRIAZOPOULOS, Lowell, Mass. Filed Feb. 7, 1920. Serial No. 357,005. 9 Claims. (Cl. 41—10.)



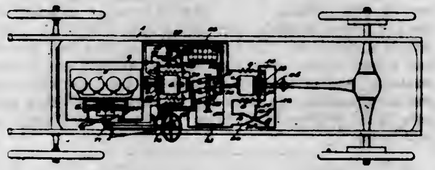
1. A confetti bomb comprising a frangible shell containing a compacted charge of confetti adapted to be distributed by the fragmentation of said shell caused by exterior action.

1,423,123. FORGE CLAMP. PHILIP A. LEACH, East Brimfield, Mass. Filed Jan. 31, 1921. Serial No. 441,283. 1 Claim. (Cl. 263—1.)



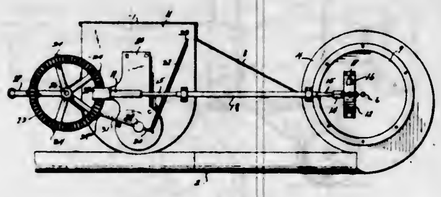
In a clamp, the combination of a pair of members each having a horizontal main portion and two arms or projections extending upwardly therefrom at opposite ends, and a jaw extending downwardly therefrom in alignment with one of said projections, means extending through the two pairs of arms and projections just above the horizontal position for pivotally connecting them together at that point, and means mounted on one of the arms for engaging the corresponding arm on the other member and forcing them apart at their extreme ends.

1,423,124. GASOLINE-ELECTRIC AUTOMOBILE. FRANCIS GLOYD LE MERLE, MERVIN JEAN ULLMAN, and JOHN EMMET BARRY, Washington, D. C. Filed Sept. 14, 1920. Serial No. 410,188. 5 Claims. (Cl. 290—17.)



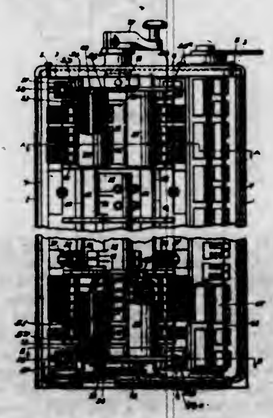
5. The combination with a prime mover and generator apparatus, of a series motor connected thereto, and a regulator comprising a throttle valve for the prime mover, a torque motor connected thereto, comprising an armature and field winding connected in series and across the generator terminals, and an auxiliary field winding connected in series with the generator.

1,423,125. DUST GUN. JOSEPH F. LEMONS, Adams, Tenn., assignor of one-fourth to W. B. Winters, Adams, Tenn., and one-fourth to John Hancock, Springfield, Tenn. Filed Oct. 15, 1921. Serial No. 507,991. 3 Claims. (Cl. 43—148.)



1. In a dust gun, a hopper, a delivery tube associated with the hopper and in communication therewith, a rock shaft mounted within the hopper above the communication between the hopper and tube, an agitating member carried by said shaft, a fan casing having an outlet communicating with one end of the delivery tube, a rotary blower fan within the casing, a second shaft rotatably carried by the hopper, a member fixed to said second named shaft and operatively connected with the fan to rotate the same, oppositely directed members carried by the rock shaft, means associated with one of said last named members for automatically turning the rock shaft in one direction, the second of said last named members closely approaching the gear, and circumferentially spaced lugs carried by the gear for contact with the second of said last named members to intermittently move the rock shaft in a second direction.

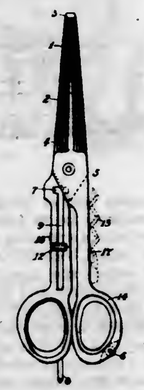
1,423,126. ELECTRIC CONTROLLER. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 21, 1916. Serial No. 132,686. 17 Claims. (Cl. 200—10.)



1. In a controller of the class described, the combination with a rotatable cylinder, of contact plates carried by the cylinder, brushes adapted to contact with the plates, an elongated magnet core adjacent the points of contact of the brushes and having its magnetic axis parallel with the axis of the cylinder, and an insulated conductor wound upon said core.

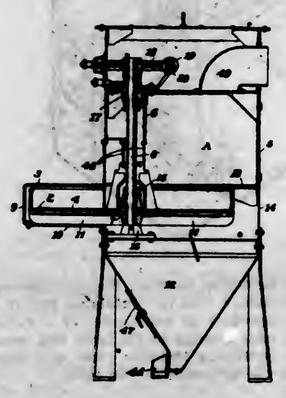
12. In a controller of the class described, the combination with a rotatable cylinder, of plates carried by the cylinder, brushes adapted to contact with the plates, an elongated blow out magnet adjacent to point of contact of the brushes, and independently removable insulating plates between the brushes to prevent the formation of arcs between adjacent brushes.

1,423,127. SCISSORS. EDWARD LEVY, London, England. Filed Mar. 16, 1920. Serial No. 366,290. 2 Claims. (Cl. 7—6.)



1. A can-opening tool of the scissors type including a combination with the closed scissors members, the handle of one member carrying a pivoting point and having a longitudinally disposed slot with an enlargement at one end guarded by one handle member when the scissors are closed, and a cutting element movable in said slot and releasable through the slot enlargement when the handles are separated.

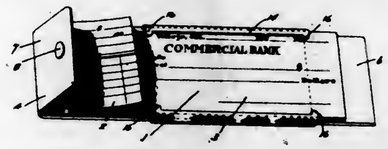
1,423,128. SAND-BLAST APPARATUS. HUGO F. LIMPERT, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a Corporation of Maryland. Filed Dec. 8, 1920. Serial No. 429,233. 10 Claims. (Cl. 51—15.)



1. In combination in a sand blast apparatus, a casing, a rotary carrier lying partly within and partly without said casing, a sand blast nozzle, an air jet nozzle, an arm supporting said nozzles at its free end and oscillating in a horizontal plane over the said table, a vertical shaft

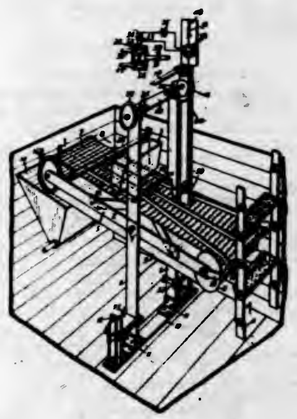
carrying said arm, and a pair of flexible hose pipes extending from a point adjacent the axis of oscillation of the said nozzle supporting arm to the nozzles carried thereby, substantially as described.

1,423,129. STIFFENER FOR FOLDING BOOKS. WARREN O. LYNCH, Berkeley, Calif. Filed Oct. 15, 1921. Serial No. 507,831. 1 Claim. (Cl. 24—66.)



A stiffener for a folding book of the character described adapted to stiffen the same in its folded and in its unfolded condition comprising a stiffening plate substantially co-extensive with the folded book having flanges thereon adapted to slidably engage the upper and lower edges of the body portion of the book and to be slid along the said edges when the book is unfolded so as to stiffen the creased portion of the book, a large central portion of the flanges being cut away so as to fully disclose the reading matter on the check while the remaining projections extending from the ends of the flanges insure a firm contact between the plate and the book.

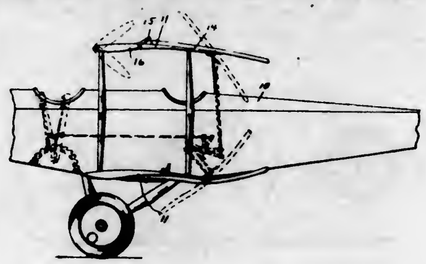
1,423,130. ORE CONCENTRATOR. WILLIAM C. McCOY, Wilkinsburg, Pa. Filed Sept. 26, 1917. Serial No. 193,230. 24 Claims. (Cl. 83—83.)



1. In an ore-classifying machine, the combination with an ore carrying table, a tank for containing fluid in which said table is adapted to be submerged, of a device for oscillating said table relative to the tank, and means for controlling the oscillating impulses from said device in accordance with the movement of said table.

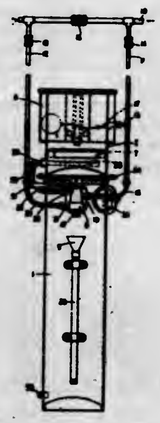
1,423,131. AEROPLANE. CHARLES D. McNAMARA, Fair Play, Colo. Filed May 4, 1921. Serial No. 466,838. 2 Claims. (Cl. 244—29.)

1. In an aeroplane, the combination with a main plane thereof, of an auxiliary plane pivoted at its transverse center to said main plane and shiftable about its pivot to engage and disengage the main plane, means to prevent



air passing from what is the meeting edge of the auxiliary plane below said auxiliary plane and means for shifting said auxiliary plane.

1,423,132. TREATMENT OF WATER FOR SOFTENING, STERILIZING, AND LIKE PURPOSES. HENRY J. MAGRATH, London, England. Filed Aug. 31, 1921. Serial No. 497,334. 4 Claims. (Cl. 210—24.)



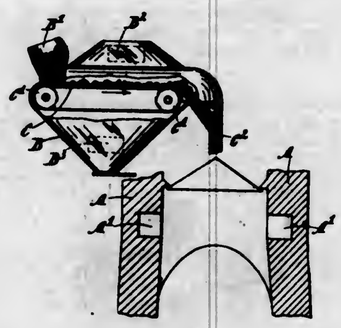
1. A plant for use in treating water for softening and like purposes, and involving the use of a reagent which requires regenerating at intervals, said plant comprising a vessel the lower portion of which forms a chamber adapted to contain the active material and a bed of filtering material, and the upper portion of which forms a separate chamber for the regenerating solution, a ball cistern in connection with said separate chamber, a multiple-way cock, comprising an outer shell with a discharge outlet to waste, and a plug with passages therein fitting in said shell, pipes connecting the shell of said cock with the water inflow and outflow and with the separate chamber, a distributing head in the lower chamber above the active material, a pipe connecting the distributing head with the shell of the cock, a collecting pipe and connections leading from near the bottom of the lower chamber to the shell of the cock, the plug of said cock being adapted to be set in either of two positions, in one of which water can only flow through the lower chamber for treatment therein, while in the other position regenerating solution can flow from said separate chamber through the lower chamber for regenerating purposes, followed by water from said ball cistern for washing out purposes, the spent solution and the waste washing water being discharged through the waste outlet of said cock.

1,423,133. TIE DEVICE. ALEXANDER S. MATHERS, Los Angeles, Calif. Filed May 28, 1921. Serial No. 473,456. 11 Claims. (Cl. 85—14.)



1. In a device of the character described, two outwardly diverging legs pivotally connected at their inner ends, inwardly extending projections at the outer ends of the legs, and a transversely extending projection at the inner end of one of the legs.

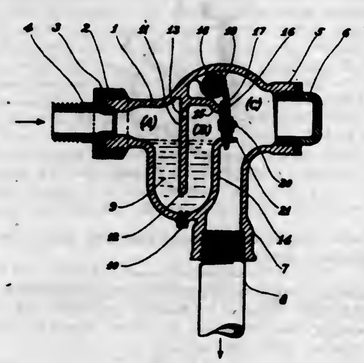
1,423,134. LOW-TEMPERATURE DISTILLATION. ARTHUR CUMMING MICHIE, Newcastle-upon-Tyne, and EDMUND GEORGE WEEKS, Northumberland, England, assignors to Charles Hesterman Mers and William McLellan, both of Westminster, London, England. Filed Nov. 12, 1919. Serial No. 337,573. 2 Claims. (Cl. 202—8.)



2. The process of continuously distilling fuel which consists in passing a heating medium through a body of said fuel, providing fresh charges of fuel separate from the said body of fuel, passing a heating medium through the charges and raising the temperature thereof above the temperature of condensation of the distillate but below a temperature that will effect appreciable decomposition of the fuel, and delivering the said charges while so heated to the body of fuel.

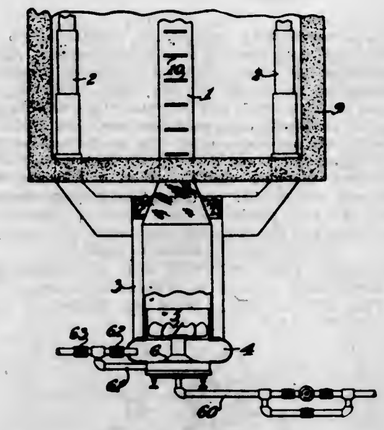
1,423,135. RELIEF VALVE. ARNOLD W. MILLER, Pittsburgh, Pa., assignor to C. Howard Hook, Pittsburgh, Pa. Filed May 14, 1921. Serial No. 469,591. 1 Claim. (Cl. 137—103.)

A relief valve comprising a casing provided with partitions forming three compartments, an inlet compartment having an inlet port near the upper end thereof, an outlet compartment having an inspection opening adjacent its upper end and a discharge port at its lower end, and an intermediate pressure compartment, the partition between the pressure and outlet compartments being provided with an outlet port, a valve therefor, the partition between the inlet and pressure compartments being spaced from the bottom of the casing to provide a water seal and having a reduced aperture adjacent its upper end, the inlet port,



the aperture, the outlet port and inspection opening being in substantial alignment and the aperture being disposed above the centers of said inlet and outlet ports.

1,423,136. DRYING KILN AND PROCESS. MORITZ L. MUHLLAN, Seattle, Wash., assignor to Northwest Blower Kiln Co., Seattle, Wash., a Corporation of Washington. Filed July 20, 1921. Serial No. 486,283. 5 Claims. (Cl. 34—24.)

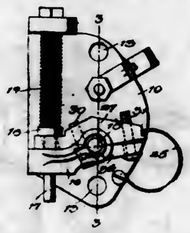


1. In combination, a kiln, a fan for circulating air through said kiln, a steam driven engine for operating said fan and means for delivering the exhaust steam from said engine to the current of air circulated by said fan and in advance of said fan.

1,423,137. MAKE-AND-BREAK IGNITION DEVICE. MILTON MURRAY, Williams Wharf, Va. Filed Oct. 28, 1920, Serial No. 420,248. Renewed Apr. 10, 1922. Serial No. 551,211. 3 Claims. (Cl. 123—144.)

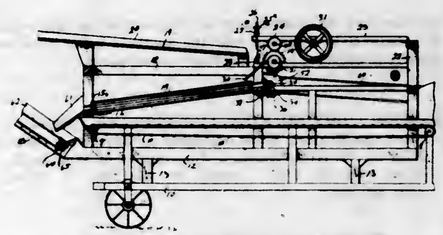
1. In a make and break ignition device including stationary and movable contacts and a rocker rod which carries the movable contact, a tappet controlled and spring actuated rocker arm including two parts one of which has a rocking adjustment with respect to the other and

has a flat surface engaging a flattened surface of the rocker rod, and means to adjust the rocking part of the



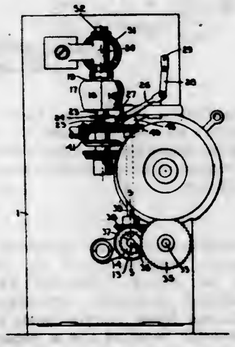
arm with respect to the other part and secure the same in adjusted position.

1,423,138. CORN-SNAPPING MECHANISM FOR SILO FILLERS. GEORGE F. NORTON and EDWIN A. ENDE, Mayville, Wis. Filed Feb. 26, 1920. Serial No. 361,602. 1 Claim. (Cl. 130—5.)



In a corn husking machine, the combination of a bottom frame work support having longitudinally extended horizontal side bars, a conveyor to operate substantially throughout the length of said frame work, an upper frame having laterally and longitudinally spaced standards resting removably upon said side bars, corn feeding and husking mechanisms mounted upon the forward portion of said upper frame and over the forward portion of said conveyor, snapping means and stalk deflecting means mounted on the rear portion of said upper frame and over the rear portion of said conveyor whereby both the husks and the stalks are received on said conveyor.

1,423,139. FIRE SHUTTER FOR MOVING-PICTURE MACHINES. JAMES H. O'BRIEN, Manchester, N. H. Filed Feb. 27, 1920. Serial No. 361,904. 5 Claims. (Cl. 88—19.4.)



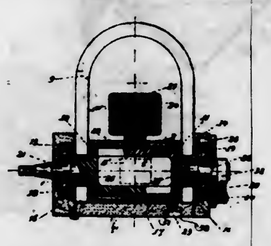
1. In a moving-picture machine, the combination with film-actuating mechanism for feeding the film, of a fire shutter, a centrifugal governor for controlling the shutter, governor-rotating means actuated directly and positively by the film, and means to apply continuously a braking action on the governor-rotating means sufficient to overcome the momentum of the governor and bring it to rest promptly when the governor-rotating means suddenly ceases to act, but insufficient to affect the action of said means normally.

1,423,140. BRUSH AND CHOPPING AX. OLUF ESAIA OLESRUD, Rawlf, Alberta, Canada. Filed Jan. 29, 1920. Serial No. 354,768. 1 Claim. (Cl. 30—11.)



A brush ax comprising a brush bit having a curved cutting edge and an eye through the top of the bit in a plane angularly disposed to the plane of the cutting edge, and a curvature in said bit from the eye towards the cutting edge whereby direct contact with the ground by said cutting edge is avoided.

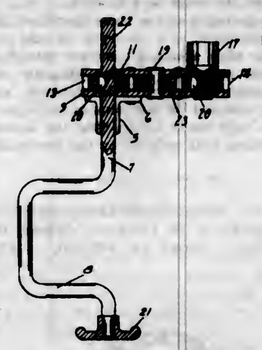
1,423,141. MAGNETO ELECTRIC MACHINE. CAMILLO OLIVETTI, Ivrea, Italy. Filed June 19, 1919. Serial No. 305,381. 9 Claims. (Cl. 171—209.)



2. In a bi-polar magneto, in combination magnet poles; a core having a winding and a pair of poles; a rotor having means in permanent magnetic connection with the magnet poles and adapted to intermittently magnetically connect each of the magnet poles with one of the poles of the core when said means are directly in line therewith; and means for indirectly connecting the poles of the core magnetically to opposite magnet poles when said rotor means is in a position intermediate said poles of the core.

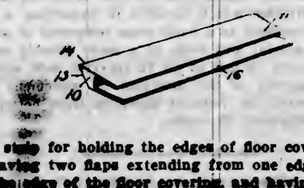
1,423,142. WRENCH. RALPH H. OWENS, Lincoln, Nebr. Filed Nov. 3, 1919. Serial No. 335,377. 6 Claims. (Cl. 81—57.)

1. In a wrench of the character described, a pair of spaced plates, a spur gear positioned between said plates, an operating shaft keyed to said spur gear and serving as a pivot therefor, a second spur gear between said plates and carrying a wrench element which protrudes beyond the outer surface of one of the plates, a third spur gear journalled between said plates and meshing with both the aforesaid first and second spur gears, said operating shaft extending through and beyond the plate



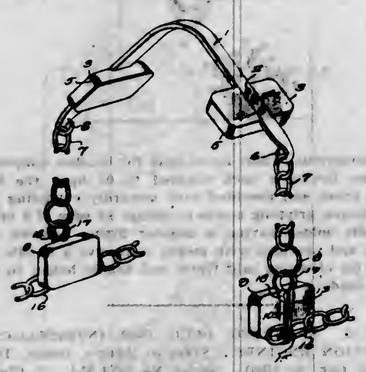
on the side of the wrench element to a distance greater than that of the wrench element, thereby serving as a pressure bearing while the wrench is in operation.

1,423,143. STRIP FOR FLOOR COVERINGS AND THE LIKE. MARCUS PATTERSON, Brooklyn, N. Y. Filed Jan. 30, 1922. Serial No. 532,748. 6 Claims. (Cl. 16—16.)



3. A strip for holding the edges of floor covering, said strip having two flaps extending from one edge so as to grasp the edge of the floor covering, and having its other edge formed to provide an obliquely projecting ridge, said ridge being adapted to bind against a side wall on an upward tendency of the strip.

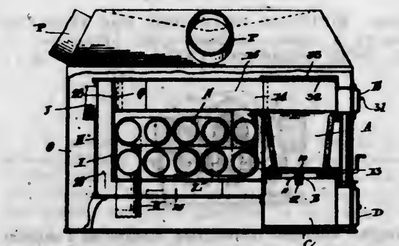
1,423,144. BACKBAND. RAYMOND W. PAUL, Pike Road, N. C. Filed July 14, 1921. Serial No. 484,748. 1 Claim. (Cl. 54—39.)



A back band comprising a pair of cushioning pads adapted to engage the back of a horse, said bands being provided with flat engaging surfaces, and being further provided with transverse grooves in their upper faces,

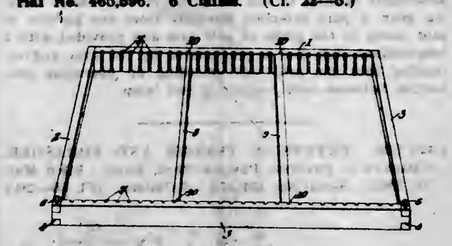
a substantially inverted V-shaped member, said member being provided with a plurality of openings adjacent each end to permit said cushioning pads to be secured thereto in various positions, the ends of said member being provided with inturned hooks, flexible connections secured to said inturned hooks, and a combined rein holder and trace carrier secured to the other end of said connections, each of said rein holder and trace carriers comprising a block, a member secured to said block comprising a pair of spaced sides, the lower portions of said sides being arranged relatively close to each other and adapted to receive a link of a trace chain, the intermediate portion thereof being relatively spaced to permit passage of a trace chain, and the upper portion being arranged to form a substantially circular portion for the reception of a rein, and a roller mounted beneath said substantially circular portion.

1,423,145. FURNACE. WILLIAM FRANKLIN PAYNE, Stratford, Ontario, Canada. Filed July 30, 1921. Serial No. 488,648. 9 Claims. (Cl. 126—109.)



1. In a furnace, a fire pot, a heating chamber, conduits leading the products of combustion across the top, down one end and backwardly and forwardly along the bottom of the heating chamber, and a serpentine heating coil in the heating chamber.

1,423,146. STEREOTYPE-CASTING FRAME. JOHN W. PECKHAM, Parkston, S. Dak. Filed Apr. 29, 1921. Serial No. 465,596. 6 Claims. (Cl. 22—5.)



6. A stereotype casting frame, comprising a top member, a bottom member, and intermediate members, means on the inner faces of said top and bottom members and on the ends of said intermediate members whereby said intermediate members may be arranged within the frame formed by said top and bottom and end members to form a mold cavity, said top member being removable for the purpose of filling said cavity with metal.

1,423,147. KEY HOLDER. GEORGE R. PEARY, Washington, D. C. Filed Feb. 28, 1921. Serial No. 448,552. 9 Claims. (Cl. 59—96.)

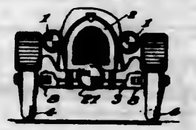
1. A key holder consisting of opposed disk-like members, each having a peripheral flange turned toward the

other member; said flanges being adapted to fit snugly one within the other for holding the two members together,



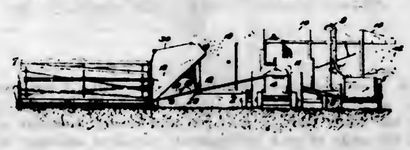
and means carried by one of said members for attaching keys thereto.

1,423,148. DIRIGIBLE HEADLIGHT FOR VEHICLES. RAYMOND A. PERRY, Oakland, Calif. Filed Oct. 17, 1921. Serial No. 508,278. 1 Claim. (Cl. 240—62.)



A dirigible headlight for vehicles, comprising a supporting bracket adapted for attachment to a front vehicle axle and provided on one face with an integral boss terminating approximately flush with the upper surface of the axle and formed with a vertical bore, a tubular post extending upwardly from and rotatably mounted on said boss, a bolt passing through said tubular post and boss and providing a vertical fulcrum for said post and affording a means for retaining said post on said boss, a lamp carried by and extending outwardly from one side of said post, an operating arm extended at right angles from the other side of said post over said axle, a split clamp detachably secured to the reach rod of the vehicle steering gear, a part extended laterally from one portion of said clamp in the plane of said arm and provided with a longitudinal slot, and a pin carried by the arm and extending into the said slot affording an operating connection between said reach rod and lamp.

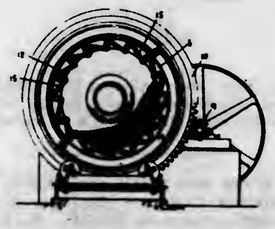
1,423,149. EXTENSION FEEDER AND THRASHER. CHARLES C. PFISTER, Pawnee Rock, Kans. Filed Mar. 10, 1921. Serial No. 451,374. 5 Claims. (Cl. 56—20.)



1. In an apparatus of the class described, the combination with a wheeled truck, of a platform provided with a central enlarged portion and with extensions projecting at right-angles from said central enlarged portion, a bin-box on said central enlarged portion contiguous to one of said extensions, a wagon contiguous to the bin-box and one of said extensions, a thrasher on the enlarged portion of the platform, and an extension, conveyors on the other extension of the platform and discharging into said thrasher, means for operating the thrasher and the conveyors, a grain conveyor connected to the thrasher and adapted to discharge either into said wagon or said bin-box at the will of the operator, and means for connecting the wagon and the truck to a tractor.

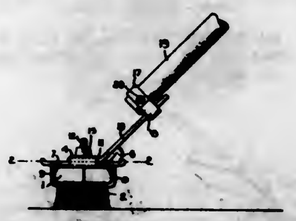
2. In an apparatus of the class described, the combination with a platform, of a conveyor on said platform contiguous to one edge, a mower conveyor extending over said first-mentioned conveyor, a brace hingedly connected to said mower conveyor and to said platform, and a spring connected at one end to said mower conveyor and at its other end to said brace for holding the mower conveyor in a set position with respect to the first-mentioned conveyor.

1,423,150. METHOD OF TREATING PULVERIZED FUEL. RALPH E. H. POMEROY, Canton, Ohio. Filed Dec. 14, 1921. Serial No. 522,360. 4 Claims. (Cl. 83—9.)



1. The method herein described of removing material from a pulveriser which consists in imparting a rotary tumbling movement to a loose mass composed of pieces of frangible material and balls of a more durable material causing streams or jets of air to traverse said mass in a direction opposed to the direction of movement of the mass and carry the reduced particles from between the elements composing the mass.

1,423,151. REMOVABLE HANDLE MECHANISM FOR BRUSHES OR BROOMS. WARREN PENDWICK and ERNEST PENDWICK, Lawrence, Mass. Filed Dec. 15, 1919. Serial No. 344,797. 4 Claims. (Cl. 300—1.)



1. Removable handle mechanism for brushes comprising a frame having a back adapted to fit upon the head of the brush and provided with upwardly extending parallel flanges, gripping means to engage an edge of a brush, a handle holder having a member fitting between said flanges and provided with means to receive a handle and means for clamping said frame and handle holder to said brush head.

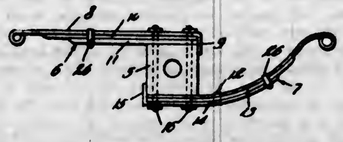
1,423,152. SPARKING PLUG FOR INTERNAL-COMBUSTION ENGINES. STEFANO REMUS, Genoa, Italy. Filed Oct. 2, 1920. Serial No. 414,814. 2 Claims. (Cl. 123—169.)

1. A spark plug comprising a body having a sleeve provided with means for mounting in the engine cylinder, an insulating part in said body, a rotatable rod passing through said insulating part and having means for connection with the current feeding conductor, an inwardly projecting flange on the end of said sleeve, the edge of this flange being spiral shaped, a radial point on said rod in register with said flange the edge and point forming



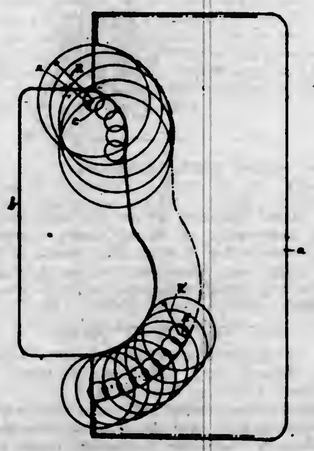
an adjustable sparking gap, a manipulating arm fixed to rotate with said rod, projections adapted to be engaged by said arm, means resiliently holding said arm engaged with said projections, and means for locking said arm and rod in adjusted position.

1,423,153. RUNNING GEAR. GEORGE R. RICHARDSON, Denbigh, N. Dak. Filed Aug. 10, 1921. Serial No. 491,253. 1 Claim. (Cl. 267—36.)



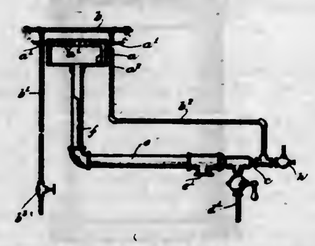
A spring vehicle comprising in combination with an axle housing, an upper spring section and a lower spring section, each of said spring sections including a plurality of leaves, one of the leaves of each section having a right angled extremity adapted to engage the axle housing, and means for securing the sections to the axle housing.

1,423,154. METHOD OF MANUFACTURING COUNTER PIECES TO GAUGES, FORMED BARS, PROFILE PIECES, AND THE LIKE. KARL ROSAK, Berlin, Germany. Filed Aug. 14, 1919. Serial No. 317,598. 1 Claim. (Cl. 90—13.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A method of manufacturing counter-pieces to gauges, former-bars, profile-pieces and the like consisting in an auxiliary-gauge being at first copied from a pattern-piece gauge or the like, the operative edge of which is uniformly removed from that of the pattern-piece a distance equal to the difference between the radii of the copying tool and the guide-finger, and from this auxiliary gauge the proper counter-piece being copied by means of a milling cutter and a guide-finger the diameters of which are chosen in such a way that the sum of the radii of the same equals the difference of the radii of the tool and the guide-finger employed for making the auxiliary gauge.

1,423,155. GASEOUS-FUEL BURNER. WILLIAM RUFF, New York, N. Y. Filed May 15, 1920. Serial No. 381,655. 6 Claims. (Cl. 158—99.)



1. A gaseous fuel burner embodying therein a burner having openings therein, a steam generator adjacent said burner openings, an injector nozzle, means connecting said generator with a source of water supply, an outlet pipe leading from said generator to said nozzle, a tube having an injector nozzle surrounding said first named nozzle and communicating with a source of gas supply, and a mixing tube surrounding said tube and having an air inlet opening, said mixing tube delivering the mixture to said burner.

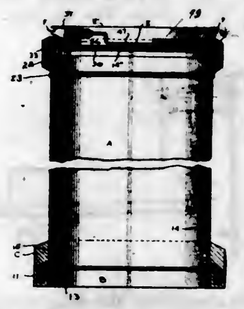
1,423,156. OUTGAUGE. EUGENE SCHMITT, Cincinnati, Ohio. Filed Apr. 1, 1920. Serial No. 370,518. 2 Claims. (Cl. 73—120.)



1. In an outgauge, the combination of a transparent tube having an opening in its lower portion and an opening in its upper portion, a support surrounding said tube and having viewing slots extending lengthwise of said tube at the respective sides of said support through which said tube is viewed, graduations at the respective sides of said respective slots, said suport provided with walls respectively directly in rear of said respective slots, and

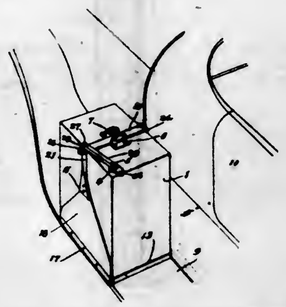
emphasising marks extending lengthwise on said respective walls in rear of said tube opposite said respective viewing slots, the liquid in said tube magnifying said respective emphasising marks.

1,423,157. CONTAINER WITH REMOVABLE LOCKING COVER. GOTTHILF H. SCHWAAZ, Newark, and MAX VINTSCHGER, Ridgewood, N. J., assignors to The Pole and Tube Works, Inc., Newark, N. J., a Corporation of New Jersey. Filed Jan. 8, 1919. Serial No. 270,185. 11 Claims. (Cl. 220—61.)



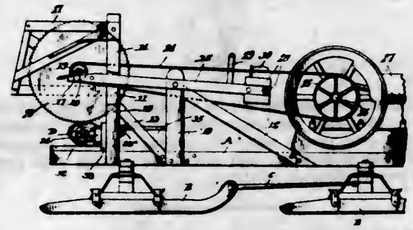
1. A container comprising a peripheral main-body portion or annular-shell having an annular outwardly extending enlarged end portion; an end-piece for the shell having a peripheral outwardly extending annular-flange fitting tightly in the end of the shell; and an annular end-ring exteriorly tightly concentrically superposed upon the end of the shell and swaged inward, upward and then annularly outward tightly upon the outwardly extending annular-flange of the end-piece and the outwardly concentrically mounted end portion of the shell, so as to enclose such shell end-portion and end-piece flange in a ring-formed annular-chamber lying wholly outward of the inner annular peripheral surface of the upper portion of the end-ring concentrically fitting upon the exterior of the main-body portion of the shell.

1,423,158. AUXILIARY GASOLINE TANK FOR AUTOMOBILES. DANIEL SEWELL, Edmonton, Alberta, Canada. Filed July 6, 1920. Serial No. 394,022. 6 Claims. (Cl. 224—29.)



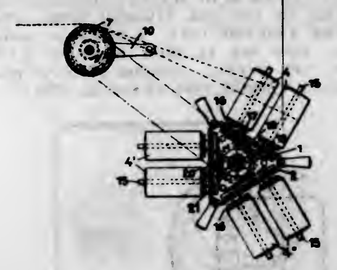
4. In a motor vehicle, the combination with a fixed support, of a substantially rectangular auxiliary gasoline tank mounted on the support and provided at one of its upper corners with a filling inlet and discharge outlet opening, a cap closing the opening and a normally locked but releasable holder receiving the tank and holding it normally against removal from the support and locking the filling cap closed, said filling cap having to be unlocked prior to releasing the tank.

1,423,159. WOOD SAW. WILLIAM SHEPHERDSON, New Liskeard, Ontario, Canada. Filed Feb. 24, 1919. Serial No. 278,885. 2 Claims. (Cl. 143—46.)



1. A saw comprising a pair of standards, a frame pivotally mounted to the standards, a saw on one end of the frame, belt means for rotating the saw, hand grips on the opposite ends of the frame to the saw, balance means attached to the frame adjacent to the hand grips, a pair of standards located on opposite sides of the belt adjacent to the saw, a U-shaped cap on one of said standards having arms designed to co-act with the frame, a pair of stop members on the base of the second of said standards, an adjacent bracket below the saw and a stop block on the bracket, as and for the purpose specified.

1,423,160. THREAD-CHANGING DEVICE IN EMBROIDERY MACHINES. GOTTWALT SIBBER, Plauen, Saxony. Filed Sept. 22, 1921. Serial No. 502,463. 9 Claims. (Cl. 242—18.)

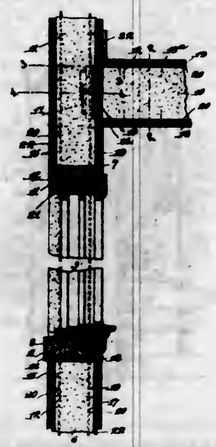


1. In a thread changing device for embroidery machines, the combination of thread spools, carriers for said spools, means for driving said spools, a thread tensioning roller and means for jointly driving said spool-carriers and thread tensioning roller, substantially as described.

1,423,161. BUILDING CONSTRUCTION. JOHN T. SIMPSON, Newark, N. J. Filed Feb. 1, 1918. Serial No. 214,836. 6 Claims. (Cl. 12—1.)

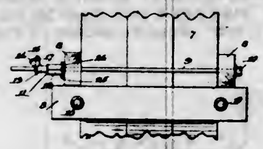
1. A structure comprising field cast reinforced concrete elements and shop cast reinforced concrete members united to form a monolithic framework, metal lathing, waterproof material between the lathing and framework, spacers disposed between said material and said lathing,

and connecting wires embedded in said framework, anchored to the reinforcements thereof, and extending
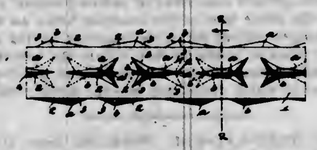


therefrom to extend through the lathing and material to securely anchor such lathing and spacers in position.

1,423,162. TIGHTENER. JOHN T. SIMPSON, Newark, N. J. Filed Apr. 1, 1920. Serial No. 370,448. 2 Claims. (Cl. 254—67.)



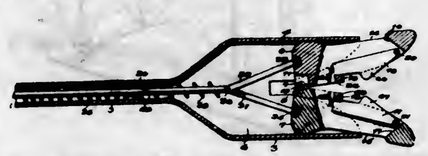
1. A device of the class described having an internally threaded tubular actuating member, an externally threaded tubular movable member adapted to receive a rod, an anchoring member on said movable member for anchoring said movable member in place on the rod, an enlargement on the end of said actuating member, a washer, and fingers on said washer for engaging said enlargement, said engagement permitting relative rotation of the washer and actuating member.

1,423,163. DEFORMED REENFORCING BAR. JOHN THOMAS SIMPSON, Newark, N. J. Filed Dec. 28, 1920. Serial No. 433,625. 6 Claims. (Cl. 72—111.)



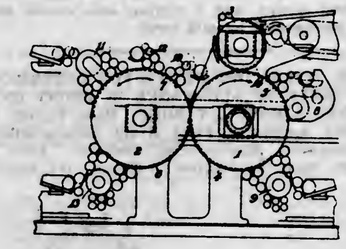
1. An article of the character described, comprising an elongated body, a plurality of protuberances on the body, each protuberance having at least three salients extending parallel to the plane of the surface of the body, one at least of said salients extending longitudinally in the plane of the axis of the body, and one at least of the reentrant angles of the protuberance having each of its sides at an acute angle to the longitudinal axis of the body.

1,423,164. TRACTOR HITCH. OLAF B. SKONNORD, Valley City, N. Dak. Filed Dec. 2, 1921. Serial No. 519,467. 6 Claims. (Cl. 280—33.15.)



4. A device of the character described, comprising a casing adapted at one end for connection with a traction device and having a slot in its other end adapted to receive a coupling element, hingedly connected complementary carrying plates slidably disposed in said casing, spring controlled latching plates carried by said carrying plates for closing the slot when said carrying plates are in retracted positions in the casing, and means arranged between said carrying plates and the casing for resisting a force tending to move said carrying plates from retracted positions, said last named means being arranged to yield when subjected to an excessive load.

1,423,165. ROTARY LITHOGRAPHIC PRINTING MACHINE FOR DIRECT OR OFFSET PRINTING. CARL LOUIS STERN, London, England, assignor to Linotype and Machinery Limited, London, England. Filed Oct. 7, 1921. Serial No. 506,024. 5 Claims. (Cl. 101—137.)

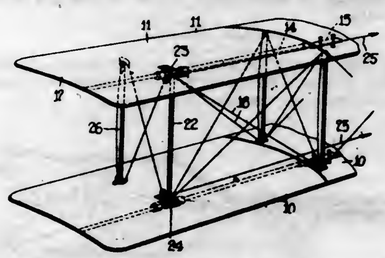


1. In a rotary lithographic printing machine, the combination with two plate cylinders both of the same diameter, an impression cylinder of half that diameter, two plate-carrying surfaces on each plate cylinder adapted to co-act directly with the corresponding plate-carrying surfaces of the other plate cylinder and mechanisms adapted to damp and ink with respectively different colours two plates on one of said cylinders, of mechanisms adapted to damp and ink a single plate on the other of said cylinders.

1,423,166. TRANSVERSE AXIS AILERON. JOHN P. TARBOX, Garden City, N. Y., assignor to Tarbox Safety Aircraft Company, a Corporation of Delaware. Filed June 20, 1918. Serial No. 240,981. 6 Claims. (Cl. 244—29.)

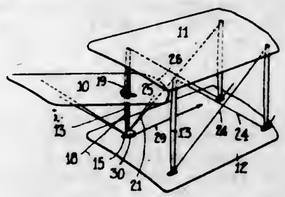
8. In a biplane, ailerons in lateral extension of each of the wings thereof, fixed interwing struts between the main supporting surfaces, aileron axis supporting members extending laterally from the main surfaces and rigidly connected therewith at points intermediate the front

and rear end struts, a vertical strut rigidly interconnecting the said axis supporting members, and cross wiring



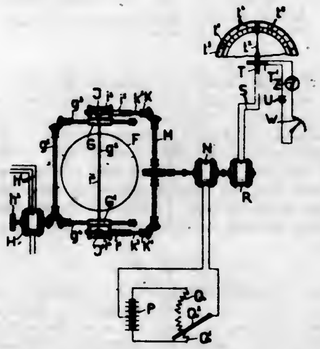
between the upper and lower ends of said interwing struts and the lower and upper ends of said axis connecting strut respectively.

1,423,167. VERTICAL-AXIS AILERON. JOHN P. TARBOX, Garden City, N. Y., assignor to Tarbox Safety Aircraft Company, a Corporation of Delaware. Filed June 20, 1918. Serial No. 240,983. 13 Claims. (Cl. 244—29.)



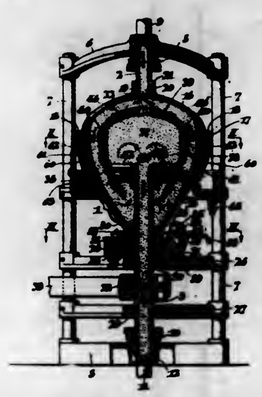
1. In an airplane, a vertically extending strut of streamlined section, and a vertical axis aileron having an axis streamlined by said strut.

1,423,168. TELESCOPE DEVICE FOR DETERMINING THE ANGLE OF ALLOWANCE IN FRONT ON ATTACKING A MOVING TARGET. HANS TECHEL, Kiel, Germany, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Filed Dec. 8, 1920. Serial No. 429,160. 6 Claims. (Cl. 235—61.)



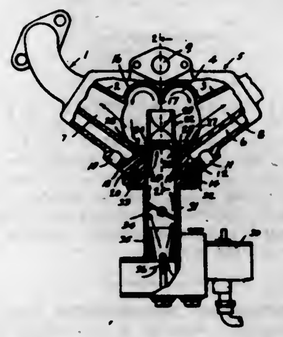
1. In a sighting telescope used against a moving target, a cross-hair mounted to be displaced transversely to the telescope axis; a driving member positively connected with said cross-hair, an indicator for reading the "corrected angle", and means transmitting the speed of the driving member to the indicator.

1,423,169. CENTRIFUGAL SEPARATOR OR AMALGAMATOR. RUSSELL THAYER, Philadelphia, Pa. Filed May 10, 1921. Serial No. 468,228. 13 Claims. (Cl. 83—67.)



1. An apparatus of the character described, comprising a closed, hollow, rotating shell through which value bearing pulp is passed under pressure, said shell having the form of a conoid affording an extended smooth interior surface over which mercury may spread itself as a thin film of varying thickness under action of centrifugal force due to rotation; and means for supporting said shell for rotation about its axis.

1,423,170. HOMOGENIZER. ERNEST M. WHITE, Los Angeles, Calif. Filed July 8, 1918, Serial No. 243,917. Renewed July 1, 1921. Serial No. 482,003. 5 Claims. (Cl. 48—180.)



1. A homogeniser consisting of means forming a vortex chamber, the upper part of the chamber being an annular arch forming a central point, the chamber having a vertical intake passage, a mixing tube within the vortex chamber and discharging against said point, and a plurality of outlets, one of which discharges into the mixing tube.

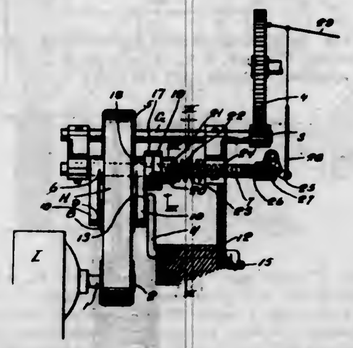
1,423,171. TENT AND BED. FLETCHER AMES, Berkeley, Calif. Filed May 11, 1921. Serial No. 468,491. 2 Claims. (Cl. 5—5.)

1. The combination with a cot, a set of upper and lower rigid arms having connection at each outer corner of the cot, one arm of each set being pivoted to the cot, each arm having a rigid ring at its outer end, tent posts passing entirely through the ring members of said sets of arms and engaging the ground at their lower ends and unconnected with the ring members, a foldable ridge pole connecting said posts, another set of upper and lower rigid arms having connection with each inner corner of the cot, the uppermost arm of each second set of arms being pivotally connected to the cot and having a ring member at its outer end, said last mentioned pivoted arms being formed upon a curve, and when extended, being directed upwardly and



outwardly with its ring member disposed in vertical alignment with the respective ring member of the respective lower arm, tent posts passing through the ring members of said second sets of arms and unconnected with the ring members and longer than the aforesaid tent posts and at their lower ends engaging the ground, a ridge pole connection between the longer posts, the pivoted arms and their ring members being sustained in extended positions by the posts, and a tent covering for the structure.

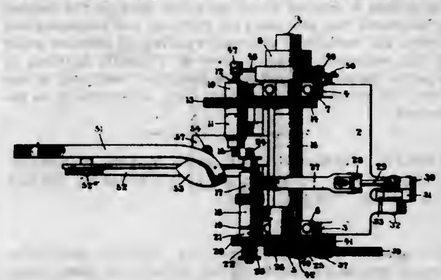
1,423,172. RATCHET CLUTCH FOR DRIVE MECHANISM. CHARLES W. ANDERSON, Brooklyn, N. Y. Filed May 28, 1919. Serial No. 300,303. 5 Claims. (Cl. 64—5.)



1. The combination with a drive pulley, a driven pulley, a slack belt extending between said pulleys, and a belt-tightener movable into and out of belt-tightening position, of means whereby to retain the belt-tightener in belt-tightening position, and said means comprising parts cooperative to retain the belt-tightener only at a degree of tightness which is less than its maximum tightness.

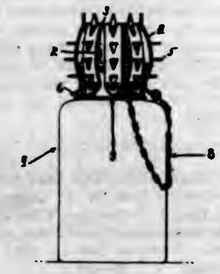
1,423,173. CAP-FEEDING DEVICE FOR THREADING MACHINES. GUSTAV FABIAN ANDERSON, Brooklyn, N. Y., assignor to Paragon Can & Cap Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 30, 1919. Serial No. 320,582. 3 Claims. (Cl. 153—72.)

1. Apparatus of the character described comprising, a chute for the caps, threading means, a spring plunger carried by the chute for limiting the downward feed of the caps therein, an oscillating plate arranged to receive a cap from the chute and place it on the threading means, and a



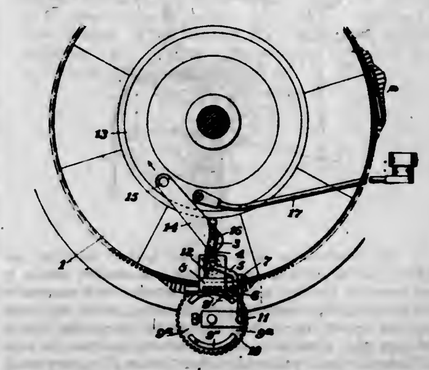
cam carried by said plate and fitted to engage the said plunger for permitting the caps to be fed one at a time from the chute to said plate.

1,423,174. POISON-BOTTLE CAP. WILLIAM HENRY ARMSTRONG, New Orleans, La. Filed July 22, 1920. Serial No. 398,066. 8 Claims. (Cl. 215—9.)



1. The combination with a bottle having a closure means, of an indicator of the class described comprising bottle gripping means and an intermediate portion engaging with said closure means to determine the extension of the gripping means upon the bottle and preventing removal of said closure without displacement of the indicator.

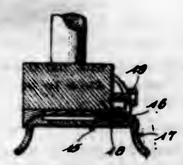
1,423,175. KNITTING MACHINE. HERBERT T. BALLARD, Norristown, Pa. Filed Jan. 22, 1920. Serial No. 353,195. 4 Claims. (Cl. 66—22.)



1. In combination, in a circular rib knitting machine, a dial wing cam and means for adjusting the same to make

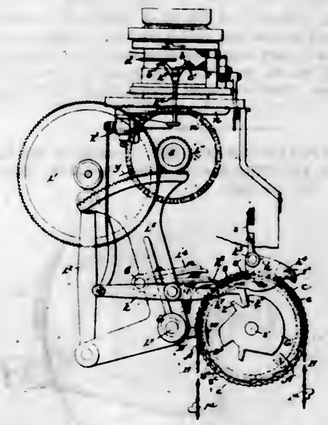
a plurality of groups of courses, each made up of alternate sections of tuck and plain rib with the changes beginning on different wales on the successive courses, and for making groups of courses all of one stitch between the courses of alternate tuck and plain rib knitting, and beginning and ending the sections of alternate knitting on different wales in the successive group courses of alternate knitting to produce diamond shaped spots staggered vertically in one row from those of the adjacent rows, substantially as described.

1,423,176. DEMOUNTABLE RIM. WALTER E. BEEMAN, Laporte, Ind. Filed Dec. 29, 1921. Serial No. 525,552. 6 Claims. (Cl. 301—35.)



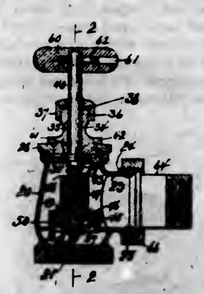
1. A demountable rim comprising an endless flanged section, a flanged self-contracting transversely split section telescoping within the first named section, the abutting ends of said split section being beveled and overlapping one another, and co-acting means between the endless section and one end of the split section for maintaining the ends in engagement with one another and for connecting the two sections together.

1,423,177. CIRCULAR STOCKING MACHINE. GEORGE P. BOSWORTH, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed June 4, 1914, Serial No. 843,062. Renewed Dec. 19, 1917. Serial No. 207,982. 17 Claims. (Cl. 66—24.)



17. In combination, in a circular hosiery knitting machine, a needle cylinder, a knitting cam carrier, means to rotate and to oscillate said needle cylinder with respect to said knitting cam carrier in the knitting of the leg, heel, foot and toe of the stocking or hose, a narrowing pick, a widening pick, a pattern member, and connections for positively moving said widening picker from said pattern member to render said pick operative, said connections acting upon the reverse stroke of the needle cylinder.

1,423,178. VALVE. TOM BRADSON, Brooklyn, N. Y. Filed Feb. 25, 1919. Serial No. 279,122. 1 Claim. (Cl. 251—48.)



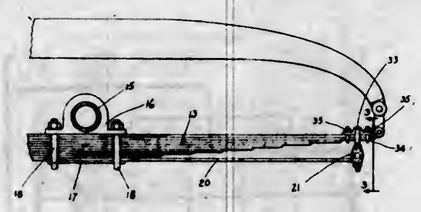
The combination of a valve casing having a valve seat with a port, a cup shaped bushing having a central opening and an interior and an outer thread, the latter thread in engagement with the upper end of the casing, a cap with a thread at its upper end and a thread at its lower end, the latter thread engaging the interior thread of said bushing, a cap nut for the thread at the upper end of the cap, a valve spindle extending through said cap and bushing and having a threaded portion at its lower end, said valve spindle having a disc flange and collar formed therewith, said disc flange held in place between said cap and bushing and said collar extending into the central opening of the bushing, a floating support having a pair of guide lugs and in threaded engagement with the threaded portion of the valve spindle and having a shoulder formed at its upper end, and a valve at its other end, the shoulder at the upper end of the support bearing against the lower face of said bushing when said support is in its uppermost position and an element coacting with the guide lugs of the support to maintain it in operative position, the said guide lugs separated from said element by clearance spaces.

1,423,179. DEPTH GEAR FOR TORPEDOES. HUGH M. BRANHAM, Brooklyn, N. Y. Filed Mar. 25, 1921. Serial No. 455,539. 3 Claims. (Cl. 114—25.)



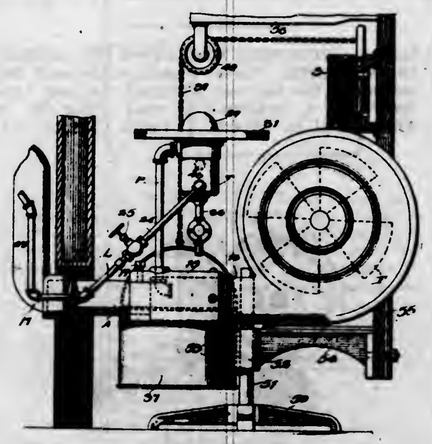
1. In a torpedo, in combination, a housing for the spring balance of the depth control mechanism, a spring within the housing, means for adjusting the tension of the spring and means interposed between the adjusting means and the housing for excluding the pressure of gases in the afterbody from the interior of said casing.

1,423,180. EQUALIZER FOR VEHICLE SUSPENSION. WILLIAM E. BRONEY, Jr., Noblesville, Ind. Filed Aug. 29, 1921. Serial No. 496,445. 4 Claims. (Cl. 267—48.)



2. In an equaliser spring construction for a vehicle suspension, the combination with a main spring, and an equaliser spring, of a spring-eye pin for supporting the end of said equaliser spring, of a socket for said pin, means for supporting said socket on said main spring, and means for adjusting said socket on said supporting means.

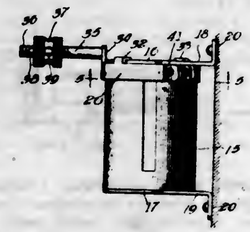
1,423,181. OIL-BURNING APPARATUS. ALBERT PRESTON BROOMELL, York, Pa.; Janet L. Broomell executrix of said Albert Preston Broomell, deceased. Filed Mar. 19, 1921. Serial No. 453,663. 6 Claims. (Cl. 158—36.)



1. An oil burning apparatus, comprising, a burner, means for supplying air under pressure to the burner, an oil reservoir connected to and disposed below the burner, means connecting the first means with the reservoir to cause said means to force the oil from the reservoir to said burner, a source of oil supply connected to the reservoir, a float operated control valve between the reservoir and the source of supply, and positive means acting to close said control valve, the last means being operable by the second means to allow of the opening of said control valve.

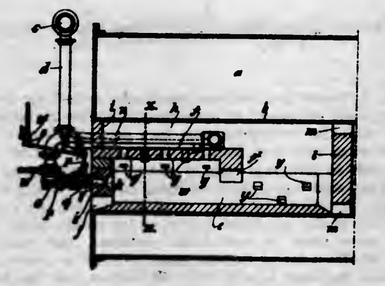
1,423,182. BRACKET FOR PRINTOMETERS. CARLTON E. BROWN, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,061. 9 Claims. (Cl. 284—1.5.)

1. In a printometer, a base, operating mechanism including a solenoid mounted on the base, a bell-shaped glass cover for engaging the base and enclosing the operating mechanism, one end of the solenoid lying substantially under the center of the bell-shaped cover, a post for holding the cover upon the base, and a separable clamp for clamping the end of the solenoid, said clamp



supporting the post, and having ears for aligning the clamp upon the end of the solenoid and having screws for closing the clamp.

1,423,183. APPARATUS FOR THE LIQUID-FUEL FIRING OF STEAM BOILERS. WILLIAM MURRAY BURDON, Bellshill, Scotland, assignor to Burdons Limited, Bellshill, Scotland. Filed Apr. 7, 1920. Serial No. 372,004. 5 Claims. (Cl. 158—4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



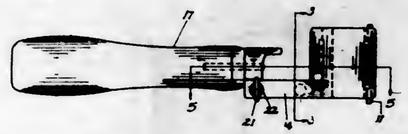
1. A steam boiler furnace adapted to be fired by liquid fuel having two chambers therein a heating chamber and a combustion chamber, a wall separating the chambers and having openings therethrough, a device for delivering liquid fuel in admixture with air into the combustion chamber, a main air supply pipe, and branch pipes passing into the heating chamber and then to the device.

1,423,184. LUMINOUS GUN SIGHT. JOHN S. BUTLER, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Nov. 20, 1918. Serial No. 263,397. 2 Claims. (Cl. 33—52.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



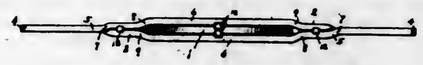
1. An attachment for a rear gun sight; said sight characterized by a leaf, a slide adjustable on said leaf, the slide including an apertured sighting bridge and an upper bridge, including side and upper bridge engaging members, spring means interposed between said members for forcing the same into engagement with the side and upper bridge members and sight aperture illuminating elements carried by said spring means.

1,423,185. AIR-BRAKE HANDLE. WILLIS E. CADY, Chicago, Ill. Filed Mar. 18, 1920, Serial No. 366,897. Renewed Apr. 13, 1922. Serial No. 552,380½. 3 Claims. (Cl. 74—33.)



1. An air brake handle comprising a socket bearing head formed from a plurality of sections pivotally connected together adjacent their outer ends; a handle rigidly fixed on the inner end of one of said sections; a set screw positioned through one of the said sections and engaging a bore provided in the other of the said sections for adjusting the relative position of said sections to each other; and a resilient member positioned in each of said sections for forcing one of said sections outwardly upon releasing said set screw, substantially as described.

1,423,186. VEHICLE FENDER. HARRY CAPLAN, Detroit, Mich. Filed Oct. 22, 1921. Serial No. 509,643. 10 Claims. (Cl. 293—55.)



8. A fender for vehicles comprising a flat bar having two points of support at equal distances from its ends, the bar extending outwardly from such points of support and then being folded on itself at points equally distant from its ends so that said ends extend in the same plane and overlap, said folded portions being offset vertically in opposite directions to space them apart and the central portion of the bar being curved so its middle point is in the same plane as said folded portions, said ends and the middle point of the bar being notched to receive bolt shanks and also formed with depressions and the folded portions of the bar also being formed with depressions adjacent the other depressions, and bolts extending through said notches and having pins extending into said depressions to secure the several parts of the bar together.

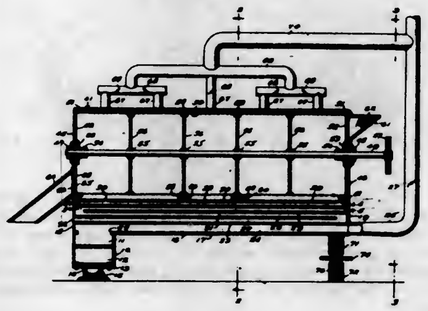
1,423,187. AUTOMOBILE FENDER. HARRY CAPLAN, Detroit, Mich. Filed Oct. 22, 1921. Serial No. 509,644. 9 Claims. (Cl. 293—55.)



5. A fender consisting of a flat metal bar bent into the form of a flat loop and brackets to support the same, the ends of the bar meeting at the middle of one of the sides of the loop and being bent back on themselves, and a coupling device uniting the ends of the bar and the other flat side of the loop and embodying a bolt extending through holes in the ends of the bar, the brackets being attached to one of said flat sides at equal distances from the ends thereof.

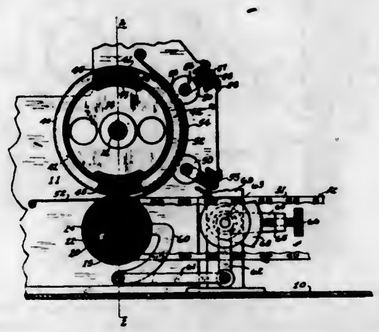
1,423,188. DEHYDRATOR. WILLIAM O. CARDIN, Joplin, Mo., assignor to J. W. Freeman, Joplin, Mo. Filed Nov. 23, 1920, Serial No. 426,060. Renewed Dec. 21, 1921. Serial No. 523,881½. 7 Claims. (Cl. 34—5.)

1. In a device of the character described, a heating unit, a heater casing, said heater casing comprising a flue communicating with said heating unit, a plurality of staggered baffle plates, a plate mounted above said baffle plates and provided with relatively large openings, and a distributing plate mounted above said last named plate



and provided with relatively small openings, said heater casing being provided with an air intake opening, a casing mounted above and communicating with said heater casing, and means carried within said last named casing for supporting the material to be dried.

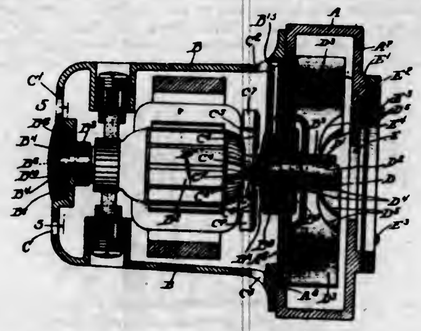
1,423,189. IMPRESSION MECHANISM FOR ADDRESSING MACHINES. CLIFTON CHISHOLM, Cleveland, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 29, 1920. Serial No. 420,415. 12 Claims. (Cl. 101—54.)



1. In a mechanism of the character described, the combination with an impression roller, of a coacting roller drum having on its surface a plurality of arcuate platen members, arcuate strips on the drum between said platen members, and feeding rollers bearing on the strips.

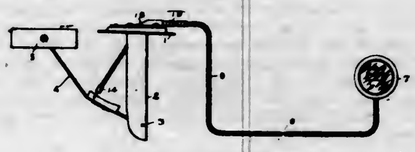
1,423,190. BLOWER. GEORGE CLEMENTS, Chicago, Ill., assignor to Clements Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed July 1, 1921. Serial No. 481,963. 6 Claims. (Cl. 230—11.)

1. A cleaner comprising a fan casing and a fan adapted to rotate therewithin, an air outlet therefor, a motor casing associated with said fan casing, an airtight partition therebetween, a rotor adapted to rotate within said motor casing, a rotor shaft projecting through the partition between the motor and the fan casing, the fan being mounted on the outer end of said shaft, an air inlet in the outer



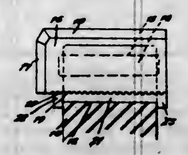
side of said fan casing opposite the end of shaft, a plurality of ventilating apertures adjacent either end of said motor casing.

1,423,191. FLUID GAUGE. JOHN G. COLLISON, JOHN W. WRIGHT, and HARRY M. FILBERT, Dayton, and WALTER FRANK, Miamisburg, Ohio, assignors to The Stemco Engineering Company, Dayton, Ohio, a Corporation of Ohio. Filed June 25, 1920. Serial No. 391,709. 7 Claims. (Cl. 73—82.)



1. A fluid gauge wherein the rise and fall of a float within a tank is indicated at a distant point by the to and fro movement of an intermediate reciprocatory flexible member acting through a curvilinear path of travel under the influence of the float, characterized by a tubular guide for the reciprocatory member, a collar loosely surrounding the reciprocatory member bearing upon the end of the tubular guide, a cap enclosing the end of the tubular guide and said collar, and a body of packing material surrounding the reciprocatory member within the cap intermediate the head of the cap and said collar.

1,423,192. MILLING TOOL. CLINTON J. CONVERSE, Bridgeport, Conn. Filed Oct. 20, 1920. Serial No. 418,244. 7 Claims. (Cl. 29—105.)

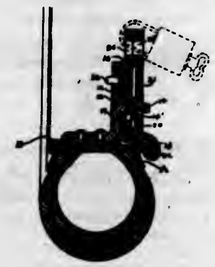


1. A milling tool comprising a body, a tooth mounted rigidly and releasably in the body, and means having rigid connection with the body and so interlocked with the body to avoid movement thereof in the direction of the axis of the body, said means having interlocking detachable engagement with said tooth and adapted when detached from said tooth to permit the tooth to be moved approximately parallel with the axis of the body at the same time permitting of its interlocking engagement in various positions of axial adjustment.

1,423,193. CARBON BLACK AND METHOD OF PRODUCING SAME. AUGUSTUS STEIGER COOPER, Santa Barbara, Calif. Filed Jan. 19, 1922. Serial No. 530,376. 4 Claims. (Cl. 134—60.)

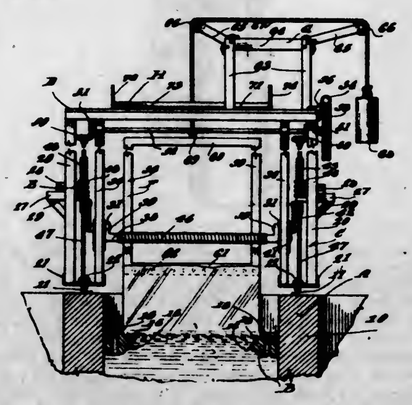
4. The method of producing carbon-black, consisting of grinding brown bitumen bearing sands, blowing the bitumen therefrom, and heating the finely comminuted bitumen thus obtained to form a carbon-black.

1,423,194. LOCKING DEVICE. CLAUDE M. CORBETT, Port Arthur, Tex. Filed Aug. 8, 1921. Serial No. 490,625. 2 Claims. (Cl. 70—122.)



1. A device of the character described comprising a body having an opening therein for receiving the bolt of a tire carrier, a projection on the body for engaging a hole in the tire carrier, a hasp connected to the body, means in connection with said hasp for preventing the rotation of the nut on said bolt and means for locking the hasp in closed position.

1,423,195. SHEET-GLASS-DRAWING MACHINE. ORA M. COX, Manayka, and CONNIE C. ROSE, Clarksburg, W. Va. Filed Feb. 25, 1920. Serial No. 361,120. 18 Claims. (Cl. 40—17.)



10. In a sheet glass drawing machine, a frame, a pair of spaced guides located at the opposite sides of the frame, superposed blocks slidably mounted in the guides, worm wheels rotatably carried by the frame, rotatable vertical shafts arranged in the opposite sides of the frame, worms keyed to the shaft and meshing with the wheels, means for connecting the shafts together for synchronous movement, connecting rods operatively connected to the worm wheels and to the sliding blocks, inwardly extending rigid arms carried by the sliding blocks, movable arms carried by the sliding blocks, crank arms pivotally carried by the sliding block, and connected to the movable clamping arm,

and means operatively connecting the crank arms to the connecting rod.

16. In a machine for drawing glass from molten glass container, a bait includnig a substantially rectangular open frame having side bars, and end bars, one of the end bars having a horizontal line of perforations therein.

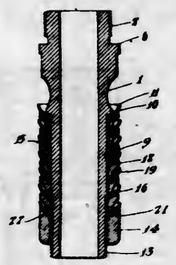
18. In a sheet glass drawing machine, a substantially rectangular formation anchor including side walls and end walls, the end walls having the upper and lower faces thereof inclined inwardly in opposite directions, the said inclined faces being bevelled inwardly toward the central longitudinal axis of the block, the end walls having vertical openings extending therethrough in direct alignment with the longitudinal axis of the anchor.

1,423,196. LUNETTE BRACKET. LOUIS B. CRAIG, Davenport, Iowa. Filed Nov. 3, 1920. Serial No. 421,608. 5 Claims. (Cl. 278—50.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



5. A lunette bracket, including a part adjustable to the center rail of a caisson, an offset depending from the bracket, said offset provided with a bore, a lunette having a shank formed to fit the bore and means for binding the shank in place.

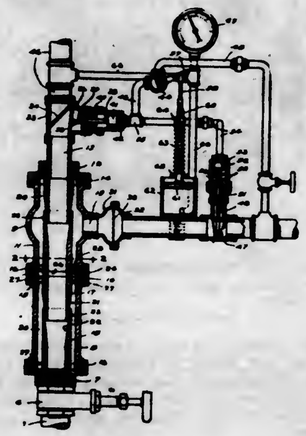
1,423,197. PUMP PLUNGER. EDWARD COE CRITCHLOW, Orcutt, Calif. Filed July 11, 1921. Serial No. 483,695. 1 Claim. (Cl. 103—63.)



In a pump plunger, the combination of a tubular member, spring metal packing cups on the tubular member, the greatest diameter of said cups being only at their rims, said cups being concave interiorly and convex exteriorly, spacing rings between adjacent packing cups and of less diameter than said cups, said rings having internal beveled faces engaging the outer faces of the cups and said rings having portions of externally reduced diameter engaging the inner faces of the cups, there being only annular line contact between the inner faces of the cups and the outer faces of the rings and there being spaces between the cups and rings for the entrance of liquid to the cups, and means to hold the cups and rings in place.

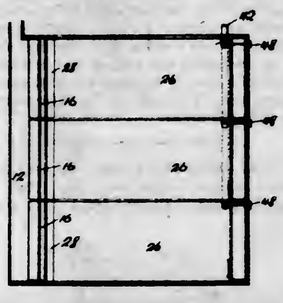
1,423,198. VACUUM JET AND SYSTEM OF OPERATING THE SAME. THOMAS L. DAVENPORT, Everett, Wash. Filed Feb. 25, 1919, Serial No. 279,200. Renewed Mar. 31, 1921. Serial No. 457,491. 2 Claims. (Cl. 230—13.)

1. A vacuum jet of the class described, comprising an outer casing having a fluid inlet passageway and provided with a cylindrical passageway therethrough that is counterboard at each end to form a seat, a tubular member having an annular flange on one end adapted to fit within the seat in one end of said casing to center said tubular member within said casing the inner walls of the end of said tubular member opposite said flange being flared, another tubular member having an annular flange



on one end adapted to fit within the seat in the opposite end of said casing said other tubular member having a tapered end adapted to project within the flared end of said first named tubular member so that a narrow annular space is left therebetween, caps on the ends of said outer casing and adapted to engage with and hold said tubular members and inlet and outlet pipes connected with said caps.

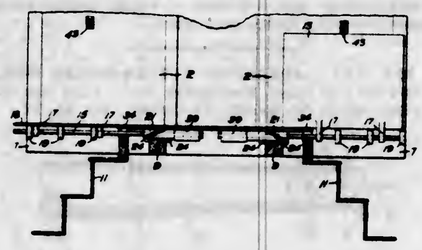
1,423,199. FIBER SAVER. AUGUST DEŽELA, Vancouver Island, British Columbia, Canada. Filed Nov. 12, 1920. Serial No. 423,589. 3 Claims. (Cl. 92—28.)



1. A pulp saver comprising a tank having inlet means, a partition arranged within the tank and dividing the same into sediment and pulp receiving compartments, and a transversely inclined baffle arranged in said pulp collecting compartment adjacent said partition and adapted for directing the inflowing liquid downwardly.

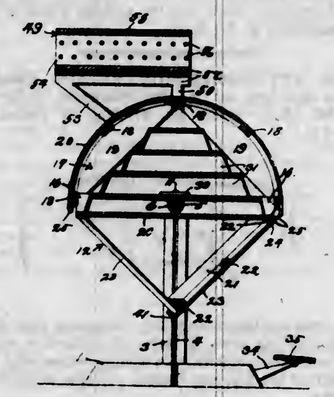
1,423,200. CAR DOOR. GEORGE DONAHUE, Hyde Park, Mass., assignor, by mesne assignments, to Frederick L. Emery, Lexington, Mass. Filed Sept. 13, 1910, Serial No. 581,851. Renewed Dec. 26, 1919. Serial No. 347,634. 16 Claims. (Cl. 105—433.)

1. The combination with a car platform, of steps leading therefrom, a swinging tread door for bridging a space above said steps between said car platform and a station platform, a horizontal hinge for said tread door,



and means outside of said space to shift said door to and from its active bridging position.

1,423,201. CARD AND SIGN OR POSTER PAINTER'S WORKBENCH. HERBERT R. ELLIS, Fredericksburg, Va. Filed Nov. 18, 1920. Serial No. 423,895. 12 Claims. (Cl. 45—129.)



1. A revolving sectional bench for use by artists, draftsmen, sign, show card and poster painters or the like, comprising drums, means for rotatably supporting the same, means for coupling the drums, and means for revolving the drums and holding the same against movement.

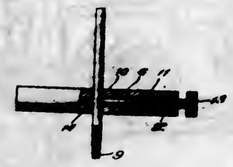
1,423,202. TIGHTENING DEVICE FOR ANTISKID CHAINS. PERRY E. FELLOWS, Rochester, N. Y. Filed July 25, 1921. Serial No. 487,204. 3 Claims. (Cl. 85—365.)



1. An adjusting device for antiskid tire chains comprising a body portion having a laterally arranged mem-

ber for the attachment of the cross chain and an adjustable member at each end adapted for connection with the adjacent end of the side chain.

1,423,203. FISH STRINGER. DAVID FISKE, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 448,722. 1 Claim. (Cl. 224—7.)



A fish stringer comprising a flexible string, a cross bar having a transverse opening extending therethrough, and a socket extending longitudinally of the bar and connecting with said transverse opening and a bolt threadedly engaging said longitudinal socket and adapted to impinge against said string to detachably secure the cross bar on the string, said flexible string capable of being moved in opposite directions through the transverse opening.

1,423,204. SPARK INTENSIFIER. MARSHALL J. FREEMAN, East Orange, N. J. Filed Sept. 9, 1920. Serial No. 409,159. 3 Claims. (Cl. 175—183.)

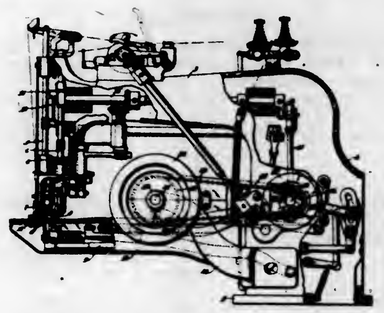


3. In a device of the character described, the combination with an insulating block, said block having an aperture near one end to admit the center stem of a spark plug, a nut on the stem for maintaining the block on the stem, a binding post mounted on the other end of the block, a plate secured upon one face of the block by said binding post, said plate including a portion held flat against the block, and a pair of like prongs joined to said plate, each prong rising from the block and extending forwardly along the block, the end of each prong being spaced above the block and above the nut which holds the device upon the center stem of the spark plug.

1,423,205. SEWING MACHINE. GEORGE S. GATCHELL, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Nov. 21, 1918, Serial No. 263,453. 4 Claims. (Cl. 112—258.)

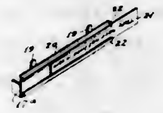
1. A sewing machine comprising a standard and a work-supporting arm extending therefrom, stitch-forming mechanism adjacent the free end of the arm, a main-shaft mounted in the standard, operative means connecting the stitch-forming mechanism and the shaft, a hand-

wheel mounted in advance of said standard and independently of the work-supporting arm, substantially



at the level of and adjacent the stitch-forming mechanism, and operative means connecting the hand-wheel and main-shaft.

1,423,206. PHONOGRAPH RECORD. JOHN H. GEDDES, Waterbury, Conn. Filed Aug. 15, 1921. Serial No. 492,446. 3 Claims. (Cl. 40—16.)

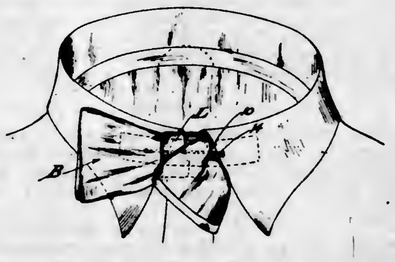


1. A cue clip for a phonograph record comprising a plate elongated in the direction of the circumference of the disc record bearing a cue and adapted to be placed against one side of the marginal smooth edge portion of a phonograph record, a base portion carrying said plate at its outer edge, and being of substantially the same length as the plate, said base portion adapted to extend across the edge of the record, and means carried by the base portion adapted to engage against the smooth edge portion of the record opposite to the plate for clamping the same in position.

1,423,207. JOURNAL PACKING. CHARLES A. GELIN, Chicago, Ill., assignor to W. Cary Lewis, Chicago, Ill. Filed May 10, 1920. Serial No. 380,191. 8 Claims. (Cl. 64—46.)

1. A packing of the kind described comprising wood excelsior treated so as to be free from grit and moisture.

1,423,208. TIE RETAINER. WILLIAM J. GETSINGER, Los Angeles, Calif. Filed Apr. 11, 1921. Serial No. 460,349. 3 Claims. (Cl. 24—49.)



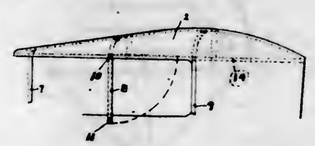
1. A necktie retaining device comprising a strip of thin flexible material, a pair of short sections of wire having their inner ends secured to the central portion of said flexible strip of material, the outer end portions of said sections of wire being rebent to form hooks which extend through the said strip of flexible material and project inwardly toward each other.

1,423,209. ADVANCING CUTTER-BORING TOOL. EDWARD F.G. GIBBS, Washington, D. C. Filed Aug. 22, 1918. Serial No. 250,981. 7 Claims. (Cl. 29—96.)



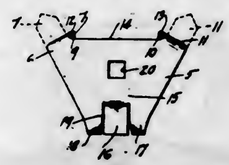
1. A counter-boring tool comprising a straight bar; the same having a cutter-holding aperture through its front end transversely disposed to its axis; a spring clamp integral with the said bar formed by a slit beginning on its surface to the rear of said aperture and running diagonally forward into it; a cutter fitted within the said aperture; and a pull-screw near the rear end of the said clamp which engages both clamp and bar, the head of which is counter sunken into the member which it enters; all substantially as set forth.

1,423,210. AUTOMOBILE SIDE CURTAIN. CHESTER H. GILLIG and LEO GILLIG, San Francisco, Calif. Filed Jan. 27, 1919. Serial No. 273,208. 3 Claims. (Cl. 296—140.)



1. A disappearing curtain for automobile tops comprising a top having bows, a series of guideways supported by the bows, the guideways extending rearwardly toward the center of the top, and flexible curtains slidable in the guideways.

1,423,211. WIRE-FENCE TIGHTENER. CHARLES GUSHWA, Elkhart, Ind. Filed Apr. 10, 1922. Serial No. 551,431. 3 Claims. (Cl. 24—71.1.)

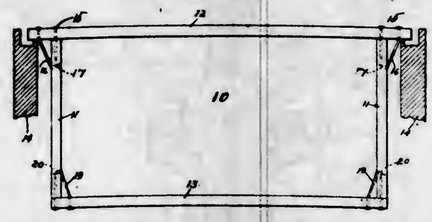


1. A wire tightener consisting of a plate having an opening in its central portion for the reception of a tool, extensions carried by certain corners of said plate, said extensions being extended back upon the plate to provide hooks, and fingers projecting from the end portion of the plate remote from the hooks, said fingers coacting with each other to provide a recess.

1,423,212. COMB FRAME FOR BEEHIVES. DEAN S. HALL, Marshfield, Vt. Filed Feb. 23, 1921. Serial No. 447,144. 8 Claims. (Cl. 6—10.)

1. A comb frame including end bars and a top bar, the top bar extending beyond the end bars and being attached

thereto, the ends of the top bar being longitudinally slotted, and connecting means between the projecting ends of the top bar and the end bars comprising members having their upper ends extending through said slots and having heads on their upper ends greater in area than the width of the slots, the lower ends of said members extending into the end bars and resisting upward movement of the projecting ends of the cross bar.



2. A comb frame including end bars and a cross bar, fastening devices connecting the end bars to the cross bar, and means for preventing sagging of the cross bar comprising metallic members at each end of the cross bar extending through the cross bar in spaced relation to the end bars and angularly bent at their extremities and driven into the end bars, that portion of the member between its point of emergence from the cross bar and its point of entry into the end bar being angularly disposed with reference to the end bar.

4. A comb frame having end bars and an upwardly curved cross bar.

7. A comb frame comprising end bars and a transverse bar, and means engaging the ends of the transverse bar and the end bars and drawing the transverse bar upward at its middle.

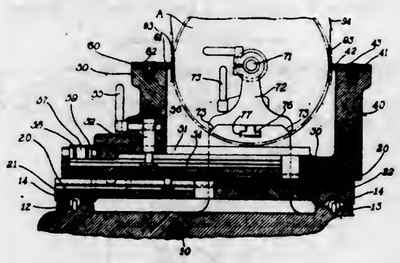
8. A comb frame comprising end bars, upper and lower transverse bars, and means connecting the end and transverse bars at the corners of said frame and holding said transverse bars in an upwardly bowed position.

1,423,213. OIL-WELL PACKER. CHARLES M. HEETER, Butler, Pa. Filed Sept. 26, 1918. Serial No. 255,764. 9 Claims. (Cl. 166—12.)



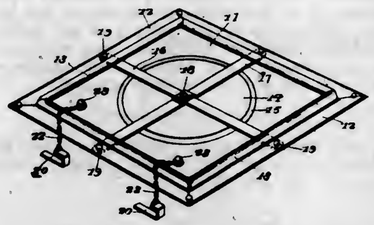
1. A well packer having an expansible packing member and a plurality of holding members below said packing member in different horizontal planes arranged to support the packing member, a tube carrying the packing member and holding members and means frangibly connected to said tube for moving both of said holding members to operative position before the packing member is expanded, substantially as described.

1,423,214. MEASURING MACHINE FOR GAUGES. REUBEN HILL, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 1, 1920. Serial No. 407,398. 15 Claims. (Cl. 33—199.)



7. A machine for determining the dimensions of a conical body comprising in combination, a base, a mounting on said base for the conical body, a carriage on said base movable in a plane parallel to the axis of said body, a plate fixed to said carriage and adapted to be applied adjacent said body, a support on said carriage movable toward and away from said body, a plate on said support adapted to be applied adjacent said body, a stop on the mounting for said conical body adapted to engage one of the faces of said body, and means for determining the relative position of said plates.

1,423,215. COVER FOR LAUNDRY TUBS. LEO HIRSCHBERG, Newark, N. J. Filed Nov. 8, 1920. Serial No. 422,556. 2 Claims. (Cl. 220—32.)



2. A cover for laundry tubs comprising a sheet metal plate having its marginal portions folded and extending at an angle from its under side and with the edges of the marginal portions in tubular form, and reinforcing bars extending transversely of the plate with their ends secured within the folded marginal portions of the cover.

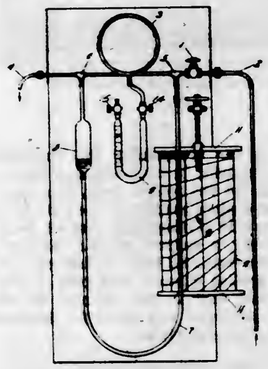
1,423,216. SPINNING RING. CHARLES A. HOLT, Cambridge, Mass., assignor to Union Industrial Company, Boston, Mass., a Corporation of Maine. Filed June 8, 1921. Serial No. 476,069. 2 Claims. (Cl. 118—59.)

1. In a spinning ring, the combination with a casing comprising separable under and upper members, of a lining member of self-lubricating material confined within

said casing and provided with an annular traveller-receiving chamber, and an annular traveller in said chamber, said under member of the casing having separated portions projecting inwardly beyond the outer wall of said chamber to constitute a support for the traveller.



1,423,217. GAS METER. THEODORE HORTON, Albany, N. Y. Filed June 9, 1919. Serial No. 302,712. Renewed Dec. 21, 1921. Serial No. 524,013. 3 Claims. (Cl. 73—167.)



1. In a device for measuring the quantity of gases flowing, per unit of time, through a tube, a tube of uniform internal diameter; a differential manometer connected into said tube at two points distant from each other; a manometer connected into said tube midway between said points; and a chart mounted to cooperate with the measuring leg of said differential manometer, and having thereon indicia showing the quantity of gas discharged for different pressures, said chart being adjustable to bring its indications into harmony with the pressures as shown by the midway-connected gage.

1,423,218. BELT BUCKLE. WILLIAM A. HURST, Battle Ground, Ind. Filed Aug. 8, 1921. Serial No. 490,670. 1 Claim. (Cl. 267—72.)



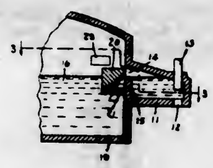
A belt buckle comprising a longitudinally flanged shell, a back plate having its ends turned inwardly toward the front of the shell, a longitudinal central bar disposed through the said inwardly turned ends and secured at its ends therein, a movable transverse plate between the inturned ends, the said bar being loosely engaged through said movable plate, a yoke having its arms slidable through one of said inturned ends and secured to and movable with the movable plate, springs on the arms of the yoke and the central bar between the movable plate and one of the inturned ends, and a yoke pivotally mounted in the flanges of the shell outwardly of other inturned end.

1,423,219. SPARK PLUG. DAVID M. HUTCHINSON, St. Louis, Mo. Filed Apr. 16, 1921. Serial No. 461,746. 3 Claims. (Cl. 123—169.)



1. In a spark plug a one piece insulator having concentric bores extending therethrough, and a shoulder adjacent the lower end thereof, a relatively long upper electrode having a head on its lower end, seated in one of said bores, and a relatively short lower electrode having a head formed on its upper end, seated in said bore and extending through the other bore, an insulating washer provided with an opening, positioned between said heads, a sleeve embracing said heads and said insulating washer for holding the two electrodes in assembled position before inserting in said bores.

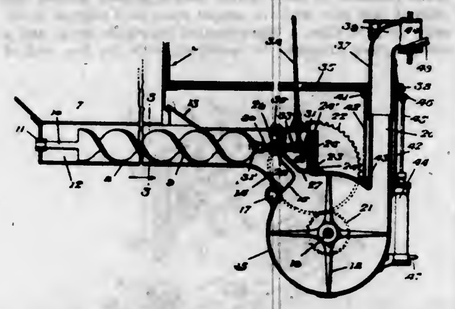
1,423,220. MEANS FOR CONTROLLING DISCHARGE FROM GLASS TANKS. EDWARD S. HUTTON, Lapel, Ind. Filed Nov. 10, 1919. Serial No. 336,835. 1 Claim. (Cl. 49—55.)



The combination of a glass tank, and a discharge spout, with a wall between the lower part of the spout and the glass tank and an opening above said wall for the flow of glass from the tank to the spout, a floating block inside the glass tank with a transversely disposed passageway in said block arranged so that when the block is in one position against said wall, the passageway will extend from the lower part of said block to a point higher than said wall and permit the flow of glass from the tank to the spout, and when the block is turned over will prevent such flow of glass.

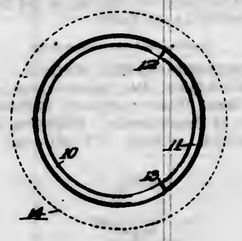
1,423,221. LOCOMOTIVE STOKER. CARL H. JEFFERS, Kent, Ohio. Filed June 7, 1920. Serial No. 387,035. 4 Claims. (Cl. 302—36.)

2. A stoker comprising a blower to be carried by a locomotive including a cylindrical casing having its axis disposed horizontally and a fan operating within said casing, said casing having an upwardly-extending outlet pipe and an upper inlet opening, a longitudinal coal trough for the delivery of coal from the tender having a downwardly-directed chute at its forward end entering said inlet of the blower casing, said casing and trough having a flexible connection for the relative movement thereof, an auger conveyer working within said trough for feeding



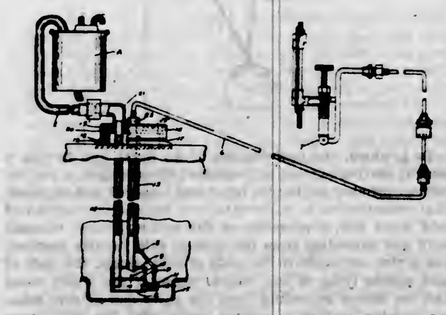
the coal to said chute, and operating means for said fan and auger having a flexible connection located between said casing and trough.

1,423,222. METHOD OF CUTTING OVER METAL RIMS. ALVIN L. JOHNSON, Worcester, Mass., assignor to Two Part Rim Co. Inc., a Corporation of Delaware. Filed May 17, 1920. Serial No. 382,137. 9 Claims. (Cl. 29—159.)



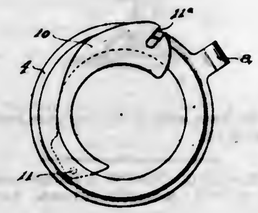
1. The method of cutting over a wheel rim for carrying a pneumatic tire which consists in cutting the rim into a plurality of separate sections and then securing metal thereto filling the space between said sections to compensate for the metal removed in cutting the rim apart.

1,423,223. DEPTH-INDICATING DEVICE. HORACE W. KING, Ann Arbor, Mich. Filed Aug. 27, 1920. Serial No. 406,338. 16 Claims. (Cl. 73—34.)



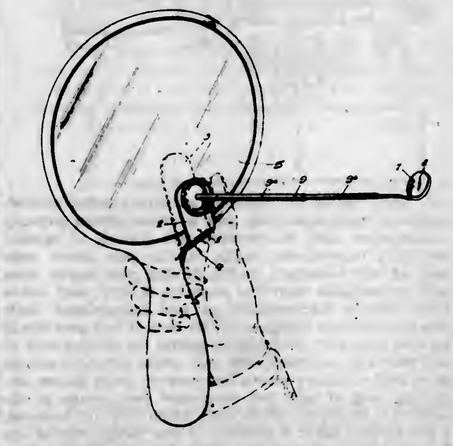
1. In a depth indicating device for liquids, the combination with a chamber communicating with a liquid at the full depth to be measured, of a second chamber below said first mentioned chamber and communicating therewith, means for introducing air into said second chamber, and a pressure gage communicating with said first mentioned chamber.

1,423,224. IRIS DIAPHRAGM. RUDOLPH KLEIN, Rochester, N. Y., assignor to Ilex Optical Company, Rochester, N. Y., a Corporation of New York. Filed June 30, 1920. Serial No. 393,068. 4 Claims. (Cl. 95—64.)



1. An iris diaphragm comprising two ring members, one of which is mounted to turn on the other, and blades pivotally connected to one of said ring members extending through the opening of the other ring member and pivotally connected to such other ring member.

1,423,225. DENTAL MIRROR. WILLIAM E. KNIGHT, Delaware, Ohio. Filed Sept. 26, 1921. Serial No. 503,330. 5 Claims. (Cl. 32—27.)

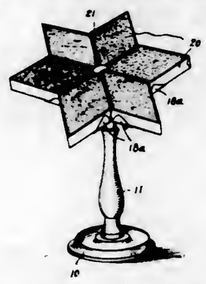


1. In a device of the class described, a base member, a stem extending therefrom, a supporting arm rotatably fitting the stem, a mirror supported by the arm, and operating means for rotating the arm.

1,423,226. DISPLAY STAND. JOSEPH KUDNER, New York, N. Y. Filed Mar. 20, 1922. Serial No. 545,023. 4 Claims. (Cl. 211—24.)

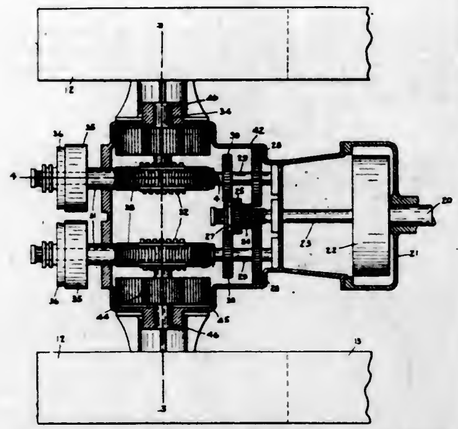
1. The herein described display stand comprising a holder, a pin in the central portion of the holder and having a head spaced from the holder for engaging a series of

interchangeable trays, and means at the periphery of the holder to engage and embrace the outer portions of the



trays while the inner ends of the trays are located beneath the head of said pin.

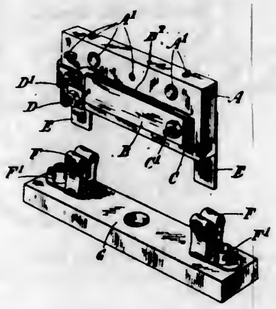
1,423,227. TRACTOR. JOHN W. LAMBERT, Anderson, Ind. Filed Apr. 19, 1919. Serial No. 291,291. 2 Claims. (Cl. 180—9.2.)



1. In a tractor the combination with parallel ground-engaging traction devices, and a motor driven primary transmission shaft intermediate said devices, of parallel secondary transmission shafts, similar gear means upon each of said secondary shafts, driving gear means upon said transmission shaft and rotatable thereby, said means being slidable longitudinally on said transmission shaft into simultaneous engagement with both of said gear means on said secondary transmission shafts for driving both of said shafts at variable speeds, gear means rotatably mounted on said secondary shafts, independent clutch means connecting each of said last mentioned gear means to the respective secondary shafts upon which they are mounted, a divided jack shaft, a plurality of gear means secured one to each section of said jack shaft and operatively associated with one of the second mentioned gear means upon said secondary transmission shafts, and independent transmission devices connecting the sections of said jack shaft one to each of said ground-engaging traction devices.

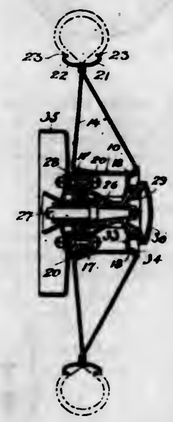
1,423,228. ELECTRIC-LAMP SWITCH. EDWARD CLAUDE LEACHMAN, London, England, assignor to Pearl Pictorial (Foreign & Colonial) Limited, London, England. Filed Mar. 7, 1919. Serial No. 281,174. 2 Claims. (Cl. 200—113.)

1. In a heat-operated intermittent contact maker for use with an insulating support having mounted thereon two contact clips situated with their line of engagement in a plane common to both, the combination with an insulating base, two electrically conducting blades situated in a plane common to both, which blades project beyond one edge of said base and are spaced apart and aligned to engage the said clips, a heat-operated bimetallic strip, and a contact-piece arranged to cooperate with the free end of



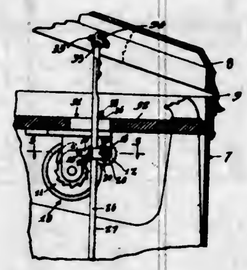
said strip, of means common to the other end of the strip and to one of said blades for connecting the same together electrically and also securing the same on said base, and means common to the said contact-piece and to the other of said blades for connecting the same together electrically and also securing the same on said base with the contact-piece mounted in operative relation to the free end of the strip, substantially as set forth.

1,423,229. PRESSED-STEEL WHEEL. JOSEPH LEDWINKA, Philadelphia, Pa., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 21, 1917. Serial No. 150,084. 1 Claim. (Cl. 301—64.)



In a wheel, the combination of an inner hub having a central seating portion of polygonal cross-section, a central tubular member having its inner end enlarged and of polygonal cross-section to co-operate with the seating portion of said inner hub, a plurality of flat spokes formed integral with and extending from the ends of said tubular member, and a rim connected to the ends of said spokes, the ends of said spokes lying in the central plane of the wheel tread and the spokes extending from the outer end of said tubular member making a greater angle with the said plane than the spokes extending from the inner end of said member.

1,423,230. WINDING MECHANISM FOR SPRING MOTORS. OSWALD C. LEGER, Los Angeles, Calif. Filed Dec. 28, 1921. Serial No. 525,268. 2 Claims. (Cl. 185—39.)

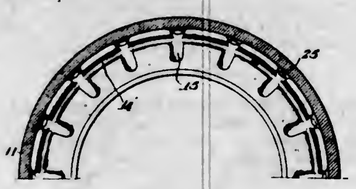


2. The combination with a phonograph having a spring motor and a lid, of a rack pivotally connected with the lid, means operated by endwise movement of the rack to wind the motor, and means mounted on the phonograph and engageable with the rack teeth to support the rack against the pressure of the lid.

1,423,231. METHOD OF PURIFYING CARBON. VICTOR LENHER, Madison, Wis., and FRANK M. DORSEY, Cleveland, Ohio; said Dorsey assignor of his right to General Electric Company, a Corporation of New York. Filed Sept. 18, 1920. Serial No. 411,258. 8 Claims. (Cl. 127—2.)

5. The method of purifying carbonized material which comprises subjecting the same to the action of a solvent comprising selenium oxychloride, washing the residue with carbon tetrachloride, and then evaporating the carbon tetrachloride remaining in the product.

1,423,232. TIRE. HERMAN LOEBL, Los Angeles, Calif., assignor to Compression Tube & Tire Co., Los Angeles, Calif., a Business Trust. Filed Sept. 2, 1919. Serial No. 321,253. 2 Claims. (Cl. 152—13.)

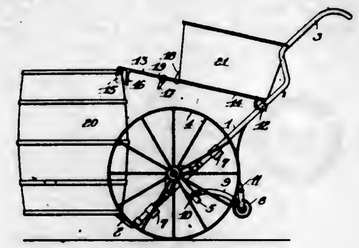


1. An inner tube formed of sufficiently thick rubber to prevent crumpling and of greater length about its periphery than the casing in which it is to be used, said greater length being taken up by a series of radial depressions; and of greater length on a radial plane than the inside of the casing in which it is to be used, said greater length on a radial plane being taken up by one or more circumferential corrugations; said radial depressions and circumferential corrugations being forced outwardly when the tire is inflated thus placing the rubber of the inner tube in compression in two directions at right angles to each other.

1,423,233. EXPLOSIVE MATERIAL. CHRISTEN JOHANNES STAUTSBOLL LUNDGAARD, Vejen, and KAJ TOBIAS HERBST, Braband, Denmark. Filed Sept. 14, 1921. Serial No. 500,663. 5 Claims. (Cl. 52—5.)

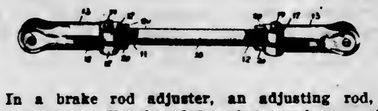
1. An explosive comprising a perchlorate of methyl-substituted ammonium compound.

1,423,234. TRUCK. JOHN T. LYNCH, Rochester, N. Y. Filed July 24, 1920. Serial No. 398,794. 7 Claims. (Cl. 214—65.4.)



1. The combination with a frame of a heel piece at one end thereof and an operating handle at the other end, a hook arm provided with a plurality of prongs and pivotally secured to the frame, said hook being adapted to engage the upper edge of an object constituting the load between said prongs for retaining the same on the outer edge of the heel piece, and an upwardly extending prong adjustable along the hook arm to fit different sizes of loads which may be carried upon said arm between the operating handle and the last mentioned prong.

1,423,235. BRAKE-ROD ADJUSTER. ROBERT C. MCARTHUR, Sand Springs, Okla., assignor to Walter O. Fredrikson, A. Edward Krieger, and Robert C. McArthur, trustees, all of Salamanca, N. Y. Filed Apr. 13, 1921. Serial No. 461,156. 4 Claims. (Cl. 287—60.)



1. In a brake rod adjuster, an adjusting rod, and bored and internally threaded socket members receiving the ends of said rod, having split clamping portions, and having oil chambers into which the rod ends also extend and oil feed openings in connection with said chambers.

1,423,236. CHECK PROTECTOR. CHARLES C. MCCOMBS, Stephenville, Tex. Filed Nov. 19, 1921. Serial No. 516,378. 8 Claims. (Cl. 101—19.)

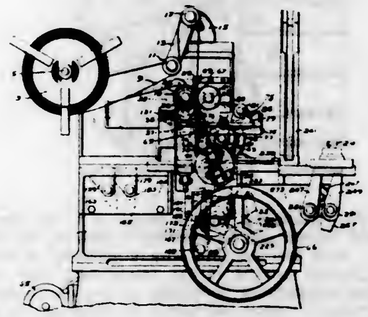


1. In a device of the class described, the combination of a split casing, numeral rings in said casing to one side of said split, and an inking pad in the other side of said casing to said split, whereby a check placed in the split of the casing can be operated upon to expose certain numerals upon the check when the pad is pressed toward the numerals.

1,423,237. MACHINE FOR APPLYING HOODS TO ARTICLES. THEODORE G. MCGIRR, Springfield, Mass. Filed May 4, 1918, Serial No. 232,464. Renewed Nov. 28, 1921. Serial No. 518,479. 9 Claims. (Cl. 93—2.)

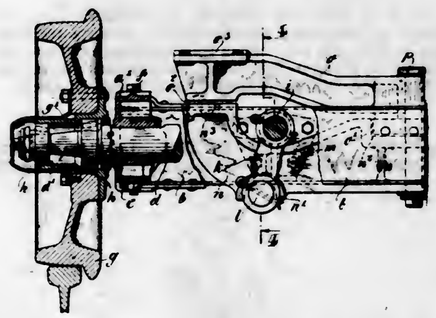
7. A machine of the character described, comprising, in combination, a step-by-step rotative folder having a recess therein, means to feed a wrapper strip toward said

folder, means for feeding the strip across said recess on rotation of the folder a step, means for thrusting an article to be wrapped against said wrapper strip and into said recess, thereby to fold the strip about an end and onto opposed sides of the article with a portion of the strip projecting from said recess, means to apply ad-



hesive to said projecting portion on rotation of the folder a further step, said portion being folded about the opposite end of the article on rotation of the folder a further step, and means for receiving the partially wrapped article from the folder and for folding the adhesive portion of the strip into engagement with another portion of the strip.

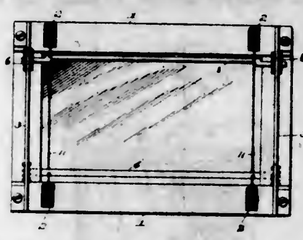
1,423,238. LEADING TRUCK FOR RAILWAY MOTOR CARS. ALFRED F. MASURY, New York, N. Y., and LYMAN C. JOSEPHS, Jr., Allentown, Pa., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 31, 1921. Serial No. 526,164. 5 Claims. (Cl. 105—190.)



3. In a leading truck for self-propelled railway cars, swinging links mounted on the truck, a lower bolster mounted freely on the links to swing therewith, and an upper bolster mounted centrally of the lower bolster with capacity for swiveling movement with respect thereto and having seats thereon for the vehicle springs.
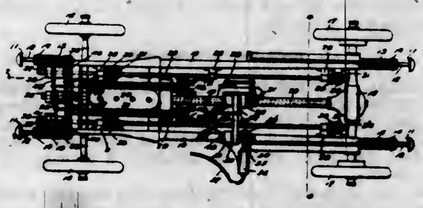
1,423,239. WINDOW CLEANER. ALBERTO MECONI, Munich, Germany, assignor to Tacope Meconi, Cumberland, Md. Filed July 1, 1921. Serial No. 481,816. 1 Claim. (Cl. 15—251.)

A window cleaner comprising pulley wheels mounted at the top and bottom of the window frame, substantially flat, rectangular guide members extending at right angles to the window frame on opposite sides thereof and provided with elongated openings, rollers positioned in said elongated openings, a rigid connection between the



rollers on each side of the frame, cables joined to said rigid connections, and a wiper carried by one of said rigid connections.

1,423,240. AUTOMOBILE FRAME. ANTONIO MELIDONA, Niagara Falls, N. Y. Filed Nov. 20, 1920. Serial No. 425,455. 2 Claims. (Cl. 180—1.)



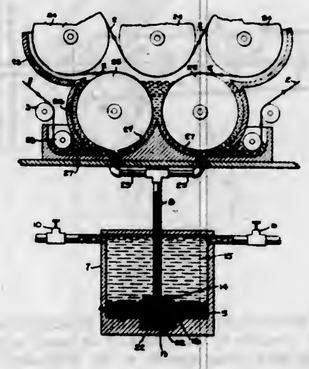
1. In a device for the purpose set forth, the combination with the frame and power plant of an automobile in which the drive shaft between the engine and differential is constructed of two sections, clutch means for connecting or disconnecting the sections, and said drive shaft projecting beyond the front of the frame, of fixed and loose pulleys on said projecting end of the shaft, shafts journaled in bearings along the sides of the frame having fixed and loose pulleys disposed opposite the first mentioned pulleys, belts trained around all of the pulleys, means for shifting the belts from the loose to the fixed pulleys, and screw jacks operated by the last mentioned shafts when the same are rotated.

1,423,241. STABLE APPLIANCE. ROBERT MINSHULL, Waterloo, Wis., assignor of one-half to Paul B. Goddard, Wilmette, Ill. Filed Aug. 16, 1919. Serial No. 317,965. 2 Claims. (Cl. 72—105.)



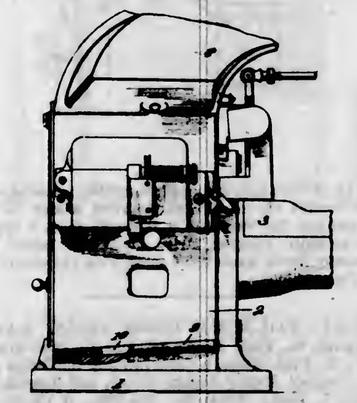
1. In a stable appliance, the combination with the portion of a concrete flooring, of a guideway therein, a channel member of inverted T-shape set in the flooring with its vertical portion in register with said guideway and its top edges spaced below the surface of the flooring, and a temporary strip adapted to be removably secured in the channel member and having its top projected beyond the top edges of the vertical portion of the channel member a distance substantially equal to that between the top edges of the vertical portion of said channel member and the surface of the flooring.

1,423,242. APPARATUS FOR MAINTAINING AND REMOVING LIQUID SEAL FOR VACUUM APPARATUS. OGDEN MINTON, Greenwich, Conn. Filed May 25, 1920. Serial No. 384,210. 2 Claims. (Cl. 34—48.)



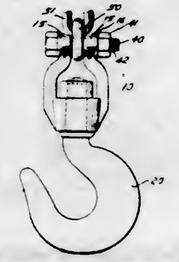
2. The combination of a vacuum chamber, a sealing chamber connected with the vacuum chamber and with a reservoir, a reservoir connected with the sealing chamber, mercury and a nonmixing fluid contained in the reservoir, the mercury adapted to flow into the sealing chamber and become the seal for the vacuum chamber and means to increase or decrease the quantity of the other nonmixing fluid to force the mercury into the sealing chamber or withdraw it therefrom back into the reservoir, and a float in the reservoir adapted to prevent any of the nonmixing fluid getting into the sealing chamber.

1,423,243. SEWING-MACHINE FRAME. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 17, 1920. Serial No. 389,643. 3 Claims. (Cl. 112—256.)



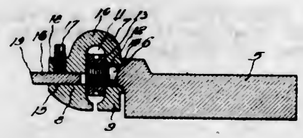
1. A frame for sewing machines including a standard, a work supporting arm projecting from said standard along which the material being stitched is moved, said standard having bearings, one of which projects from the standards, a shaft in said bearings, a drive wheel on the end of the shaft adjacent said projecting bearing, said standard having a trough projecting therefrom directly beneath the projecting bearing for the shaft, and an opening through said standard through which the oil draining into the trough is directed to the inside of the standard.

1,423,244. CHAIN SHACKLE AND METHOD OF MAKING THE SAME. EDWARD Y. MOORE, Cleveland, Ohio. Filed Dec. 20, 1920. Serial No. 431,880. 10 Claims. (Cl. 59—9.)



1. The method of making a chain shackle which consists in forming a member having an enlarged body portion with an aperture therein and having arms extending upwardly therefrom, inserting the shank of a load-supporting device in the aperture, upsetting a portion of the shank above the aperture, and thereafter bending the ends of the arm into close proximity with each other.

1,423,245. TOOL HOLDER. JOHN R. MOORE, Chicago, Ill. Filed Mar. 17, 1921. Serial No. 452,933. 14 Claims. (Cl. 29—96.)

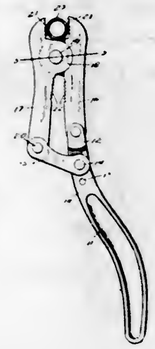


1. A tool-holder formed of sections by one of which the holder is adapted to be supported, the other of said sections being a spring section adapted to support the tool, said spring section being adjustable upon the other section about an axis extending lengthwise of the latter, and means located at one end only of said first-referred-to section for adjustably securing said spring section to be adjusted as stated to vary its inclination relative to the work.

1,423,246. INVISIBLE INK. CHARLES F. MORSE, Cleveland, Ohio, assignor to The Invisible Process Co., Cleveland, Ohio. Filed Nov. 14, 1921. Serial No. 515,000. 4 Claims. (Cl. 134—29.)

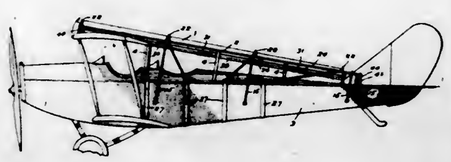
3. An invisible ink composed of an aqueous solution of basic ferric sulphate mixed with a quantity of phosphoric acid variable within the limits of twenty-five to seventy-five per cent of the quantity of ferric sulphate.

1,423,247. WRENCH. JOHN MUMFORD, Chillicothe, Ohio. Filed Oct. 6, 1919. Serial No. 328,697. 1 Claim. (Cl. 81—91.)



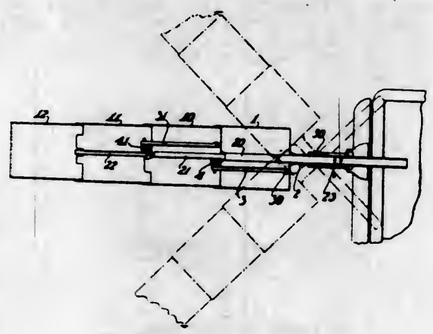
A wrench comprising a pair of substantially straight, elongated jaw members one of a greater length than the other, said jaw members having their opposed flat faces arranged substantially parallel one with respect to the other and formed with serrated gripping faces arranged in pairs, one pair of such faces being formed at the outer end of said jaw members and the other pair at a point intermediate the length of the latter, pivot connections between the parallel faces of said jaw members and between the pairs of said gripping faces, an operating handle pivotally connected to the lower end of the shorter of said jaw members, and a link pivotally connecting the lower end of the longer of said jaw members with said operating handle, the pivotal point of said link with said handle being disposed at a distance below the pivotal point of the latter with said shorter jaw member.

1,423,248. PARACHUTE. CHARLES L. NEWMAN, Berkeley, Calif. Filed June 11, 1921. Serial No. 476,738. 10 Claims. (Cl. 244—21.)



1. A parachute attachment for an aeroplane, comprising an outrigger secured to said aeroplane, a container for the parachute secured above the aeroplane, means for attaching the cords of the parachute to the body of the aeroplane and manually controlled spring means incorporated in the cords for opening the container and drawing the edge of the parachute toward the outlines of the outrigger before releasing the same.

1,423,249. AUTOMOBILE DIRECTION SIGNAL. TORGILS S. OPHEIM, Everett, Wash. Filed Sept. 8, 1921. Serial No. 499,318. 7 Claims. (Cl. 116—44.)



1. In a direction signal, a plurality of slidable sections, and means operable by movement of an inner section for moving the next outer section at an increased rate of speed.

1,423,250. STRING HOLDING AND CUTTING ADJUSTMENT FOR RIVET-SETTING MACHINES. HAROLD PARKINSON, Wilmington, Del. Filed May 25, 1921. Serial No. 472,580. 2 Claims. (Cl. 93—91.)

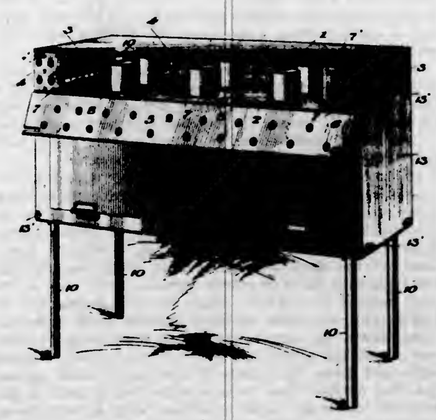
1. In combination with a rivet setting machine a string guide located on one side of the rivet holder, to receive and position the string as it is drawn from a spool and an elastically gripping string guide and holder having outwardly flared guide arms located on the other side of the rivet holder.

1,423,251. MAIL BOX IN HOUSE WALLS. BERNARD T. PENNIG, St. Paul, Minn., assignor to Penn-Greg Mfg. Co., St. Paul, Minn., a Copartnership consisting of Joel E. Gregory, Esther Sophia Strand, and himself. Filed Feb. 7, 1920. Serial No. 356,820. 6 Claims. (Cl. 232—19.)

1. The combination with double walls, of a mail box mounted between said walls and covered thereby, and an anchoring bracket secured to the mail box and one of the walls on the inside thereof, one of said walls and the mail box having coincident inlet openings, and the other of said walls and mail box having coincident outlet openings.

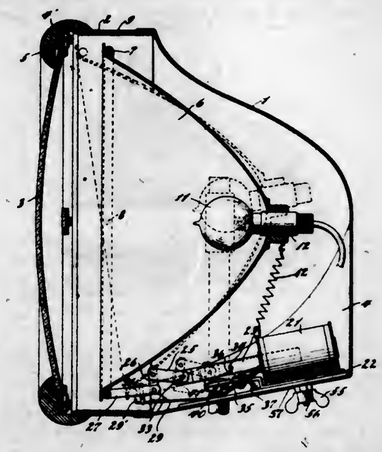


1,423,252. COLLAPSIBLE FIELD STOVE. ISAAC C. POPPER, New York, N. Y., assignor to Basic Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 24, 1918. Serial No. 251,329. 6 Claims. (Cl. 126—38.)



1. A collapsible field stove including top, bottom, perforated sides, ends and door, the top and bottom relatively close to each other, whereby a relatively low and flat stove portion is formed which is adapted to receive therein cans of solidified fuel whereby the flame therefrom is at the proper distance from the top, and legs extending loosely through the bottom and removably secured to the lower side of the top, and constituting the sole means of support for the stove.

1,423,253. HEADLIGHT. TRUMAN W. POST, New York, N. Y., assignor to Willys Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Jan. 15, 1917. Serial No. 142,344. 5 Claims. (Cl. 240—41.)



1. A headlight comprising a casing, a pivotally mounted reflector therein, operating mechanism for tilting said reflector, said operating mechanism being bodily movable in said casing to initially adjust the angular position of said reflector.

1,423,254. BARREL. JOHN R. RAIBLE, Cleveland, Ohio, assignor to The Greif Brothers Cooperage Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 17, 1919. Serial No. 283,026. 4 Claims. (Cl. 217—89.)

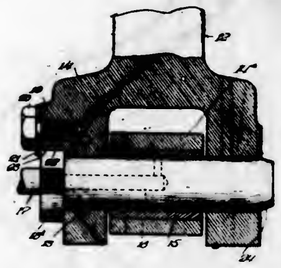


1. A barrel comprising staves, means encircling the staves to hold them together, an inside groove formed in the staves and adjacent each end of the barrel, a head at each end of the barrel and having its edge mounted in one of said grooves, a reinforcing head associated with the outside surface of each of the first named heads, the periphery of said reinforcing head abutting against the inner ends of the said staves and the outside surface of said reinforcing head lying substantially flush with the ends of the staves, and means for securing the reinforcing head to the staves.

1,423,255. LEAF-SPRING CONNECTION. JOSEPH J. RATH, Chicago, Ill., assignor to The Available Truck Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 29, 1920. Serial No. 413,477. 5 Claims. (Cl. 64—27.)

1. A spring connection construction comprising a yoke member, having aligned openings in its arms, a shackle-bolt extending through said openings, a leaf-spring having a portion surrounding said shackle-bolt between said arms, said shackle-bolt having a head engaging the outer

face of one of said arms to position it, said head having a flat edge, one arm on the yoke having an overhanging shoulder having a flattened portion for engaging said flat edge to prevent rotation of said shackle-bolt, a screw threaded into said overhanging shoulder portion and bearing on the head of the shackle-bolt to hold it in position,

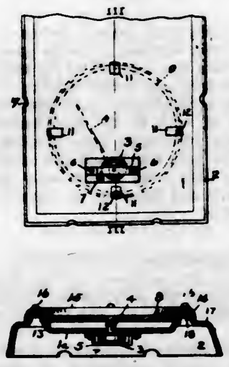


said shackle-bolt having an oil passage leading from the headed end thereof to oil the spring connection, and an oil-cup secured to the head of said shackle-bolt in upright position, the engagement between said flat edge and said flattened shoulder portion serving to keep the oil-cup in upright position.

1,423,256. WATER PAINT. ARTHUR L. RICE, Adams, N. Y.; Caroline S. Rice executrix of said Arthur L. Rice, deceased. Filed Mar. 12, 1919. Serial No. 282,151. 5 Claims. (Cl. 134—50.)

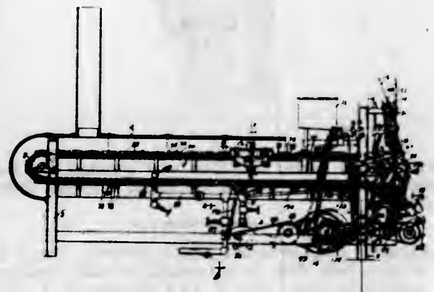
5. A process of making a waterproof water paint which consists of first making a dry powder containing casein and lime and capable when water is added thereto of use as a water paint, adding to the powder sufficient water to produce a heavy paste, stirring the paste until smooth and homogeneous, adding more water and stirring until the paste is thinned to the consistency of heavy cream, adding to four parts by volume of the mixture one part of a water-proofing liquid consisting of a solution of paraffine in a volatile solvent, and stirring the mixture of the paste and the waterproofing liquid until a semi-permanent homogeneous emulsion is formed.

1,423,257. THERMOMETER. ERNEST RICHARDSON, College Hill Borough, Pa. Filed July 12, 1921. Serial No. 484,041. 3 Claims. (Cl. 73—52.)



1. A thermometer comprising a sheet-metal frame with a marginal flange forming a hollow casing with the rear side open and having a round bearing-opening, a bracket lying on the inner face of the frame and wholly within the same and having a bearing-opening in alinement with the other bearing-opening, means adjacent to the opening in the bracket for securing the latter to the frame, a shaft mounted in the said openings, a pointer on the outer end of the shaft beyond the frame, there being temperature indicia on the outer face of the frame co-extensive with the range of the pointer, a thermostatic coil between the frame and the bracket, having one end fixed and the other end attached to the shaft, a cover glass for the pointer, means spacing the glass from the pointer and indicia, and a ring attached to the frame and securing the glass in fixed relation to the frame.

1,423,258. MACHINE FOR BAKING PASTRY PRODUCTS. WEBSTER M. ROBERTS and PARK D. ROBERTS, St. Joseph, Mo. Filed Oct. 29, 1917. Serial No. 199,149. 49 Claims. (Cl. 107—58.)



1. In a pastry making machine, the combination, with a mold, and a core therefor, of an ejector for the molded product, means for withdrawing said core from said mold, and a lever having connections to position said core withdrawing means and said ejector simultaneously.

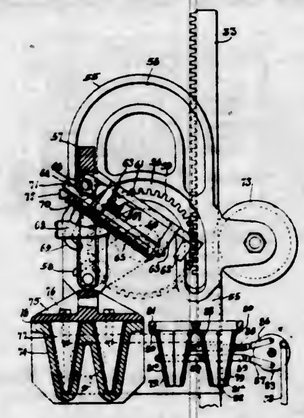
23. In a pastry making machine, the combination, with a mold and a belt to which said mold is pivoted, of a track for tilting said mold, batter filling devices adjacent said track, and means for moving said belt constructed to stop said mold in batter filling position, said mold being tilted by said track in said filling position.

49. In a machine of the class described, a plurality of sets of separable mold sections having semi-mold cavities, those of one section adapted to register with those of the opposing section, cores therefor, means for sustaining the mold sections to be opened and closed by relative movement of the same bodily laterally while maintaining their opposing faces in planes parallel to the axes of the mold cavities as a whole, means for introducing and removing the cores from the mold cavities, a set of dummy cores, means for introducing said dummy cores into the cavities of the baked article after removal of the mold cores, and means for relatively moving the mold sections and the dummy cores whereby the baked articles are loosened from the mold sections, said articles being adapted to pass through between the mold sections when the sections are separated.

1,423,259. MACHINE FOR AND METHOD OF MAKING PASTRY CONES. WEBSTER M. ROBERTS and PARK D. ROBERTS, St. Joseph, Mo. Filed Feb. 7, 1921. Serial No. 443,062. 29 Claims. (Cl. 107—58.)

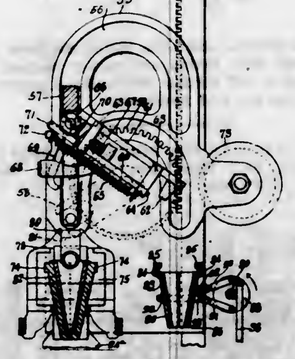
1. In a cone making machine, the combination, with a cone-forming unit comprising a solid mold with cavities and corresponding cores, of cone grippers comprising

members adapted to receive the cores with their impaled cones, mechanism to withdraw the cores and impaled



cones from the mold, insert them into the grippers, and to return the cores to the mold, and other mechanism to cause the grippers to release the cones.

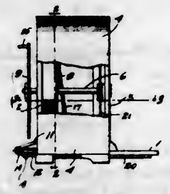
1,423,260. MACHINE FOR AND METHOD OF MAKING PASTRY CONES. WEBSTER M. ROBERTS and PARK D. ROBERTS, St. Joseph, Mo. Filed Feb. 7, 1921. Serial No. 443,063. 19 Claims. (Cl. 107—58.)



1. In a cone making machine, the combination, with a cone-forming unit comprising a separable mold with cavities and corresponding cores, of cone grippers comprising members adapted to receive the cores with their impaled cones, mechanism to open and close the mold and mechanism to withdraw the cores and impaled cones from the mold, insert them into the grippers and to return the cores to the mold, and other mechanism to cause the grippers to release the cones.

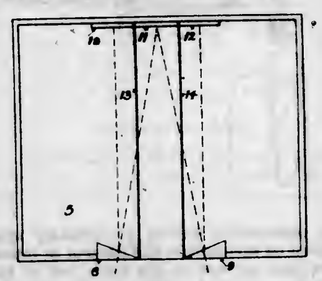
10. In a cone making machine, the combination, with a separable mold, mechanism to open and close the mold, and devices to hold it momentarily stationary while it is being opened and closed, of corresponding cores and core actuating mechanism comprising ways, a carriage adapted to travel therein, and a lifting frame mounted on the carriage, devices to cause the frame to engage with and disengage from the core bar, and operating devices to cause the carriage to travel in the ways.

1,428,261. ANIMAL TRAP. CLIFTON C. ROCKWELL, Tucson, Ariz. Filed Jan. 3, 1918, Serial No. 210,172. Renewed Dec. 11, 1920. Serial No. 430,044. 2 Claims. (Cl. 43—75.)



1. An animal trap of the character described comprising a base, a housing rising from the base and having an entrance opening, an armed striking member rotatably supported by the housing in position for movement of its arms across the entrance opening, a motor within the housing, connections between the motor and the striking member for rotation of the latter, a rotatable latch member mounted beneath the base and including arms equal in number to the arms of the striking member, a gear member connected with the striking member for rotation therewith and arranged to engage the latch member for rotation thereof, a depressible platform pivoted to the base and extending through the entrance opening, yieldable means for holding the platform normally against depression and a stop connected with the platform for movement therewith to lie in the path of movement of the arms of the latch member when the platform is in normal position and to lie out of the said path of movement when the platform is depressed.

1,423,262. CHANGING-VIEW DISPLAY APPARATUS. HENRY M. RUSSELL, Wheeling, W. Va. Filed May 12, 1921. Serial No. 468,956. 7 Claims. (Cl. 40—137.)

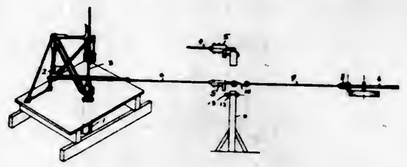


1. In a changing-view display apparatus, the combination of two views and a prism, all so located with respect to each other, that the apparent position of one of the said views, as observed through the prism, shall be the same as the actual position of the other of the said views, and screens to prevent the observation of one of the said views except through the said prism, and to prevent the observation of the other of the said views through the said prism.

1,423,263. CABLE CLAMP. DOUGLE M. SALTER and SOSTHENE ROBICHAUX, Saratoga, Tex. Filed Dec. 3, 1920, Serial No. 428,176. Renewed May 25, 1922. Serial No. 563,071. 1 Claim. (Cl. 24—135.)

A line clamp formed of two sections, means for clamping the same to a line, a lug carried by the clamp and

extending at right angles thereto and having a deep notch which forms said lug into spaced fingers provided

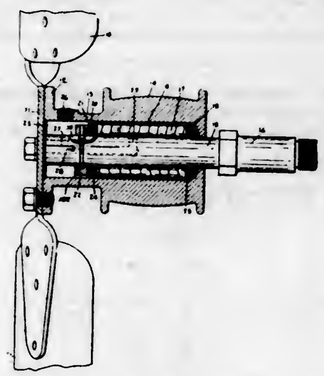


to receive an anchor between them and a clevis carried by the clamp provided for the attachment of a hook thereto.

1,423,264. PYROTECHNIC COMPOSITION. WALTER T. SCHEELE, Hackensack, N. J., assignor to Government of the United States, represented by the Secretary of the Navy. Filed Dec. 9, 1919. Serial No. 343,573. 6 Claims. (Cl. 52—23.)

5. A composition of matter comprising hexamethylenetetramine and strontium nitrate in the form of a double salt with the addition of a finely powdered metal.

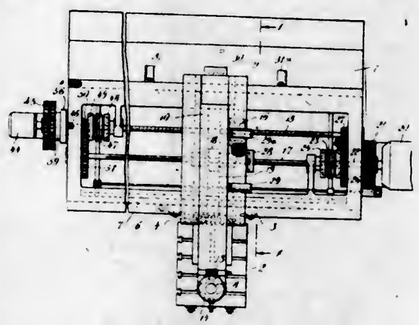
1,423,265. BEARING CONSTRUCTION FOR FANS. LOUIS SCHWITZER, Indianapolis, Ind., assignor to Automotive Parts Company, Indianapolis, Ind., a Corporation. Filed Aug. 11, 1919. Serial No. 316,855. 1 Claim. (Cl. 64—26.)



A fan construction having a stationary spindle, a hub mounted on said spindle and adapted to rotate thereon, a fan plate secured to the outer end of said hub, roller bearings mounted between said spindle and hub, an oil reservoir within said hub between the outer end of said bearings and the fan plate, end thrust bearings mounted at the outer end of said roller bearings, a longitudinally extending oil conduit passing through said spindle, a radially extending passage in said spindle communicating with said longitudinal passage and oil reservoir for maintaining the lubrication of said bearings, and a second oil passageway in said spindle communicating with said reservoir and end thrust bearings for maintaining their lubrication.

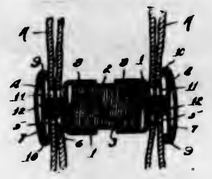
1,423,266. SHAPING MACHINE. WILLARD T. SEARS, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed May 22, 1919. Serial No. 298,924. 48 Claims. (Cl. 90—41.)

1. The combination of a work table, a tool holder, an electric motor for causing relative reciprocation of such members either longitudinally or transversely, and means including automatic means for controlling the operation of the motor for causing the reciprocating mo-



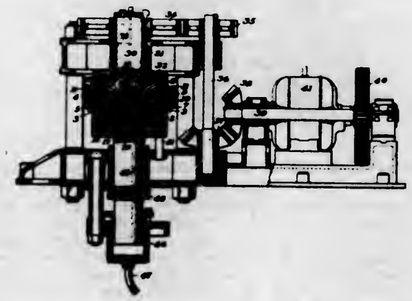
tion of the reciprocating member in either direction to be relatively slow and in the opposite direction to be relatively fast.

1,423,267. CUFF BUTTON. MALVERN W. SEVERANCE, Cleveland, Ohio. Filed Oct. 8, 1920. Serial No. 415,609. 4 Claims. (Cl. 24—102.)



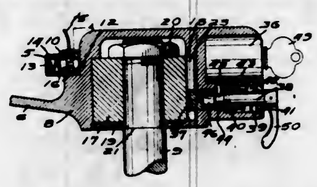
1. A cuff button, comprising button members, said button members each having an annular channel for the reception of a cuff portion and resilient extensible connecting means for said members.

1,423,268. MACHINE FOR ROLLING. EDWIN E. SLICK, Pittsburgh, Pa. Filed Nov. 29, 1919. Serial No. 341,390. 7 Claims. (Cl. 80—16.)



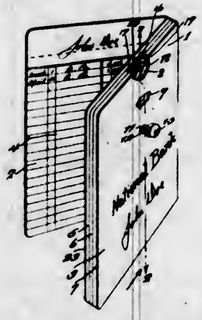
7. In a rolling machine, a work-supporting member and a thrust member, connections arranged to impart relative rotation thereto around a stationary axis, an imperforate system of rolling elements between the members, a holding device for the system of rolling elements arranged to hold it in fixed relation to the center of rotation, means for forcing the members toward each other, and a stop arranged to limit said movement, substantially as described.

1,423,269. AUTOMOBILE LOCK. DAVID C. SMITH, Toledo, Ohio. Filed Sept. 8, 1921. Serial No. 499,160. 6 Claims. (Cl. 70—129.)



5. In a steering wheel and shaft locking means, a shell connected to the steering wheel and rotatable therewith, a bolt located in the shell for connecting the shell with the steering shaft, a key and a key controlled locking pin adapted to lock the bolt when withdrawn from its connecting position, and means for withdrawing the bolt from its connecting position independent of the operation of a key.

1,423,270. BANK BOOK AND SAVINGS BANK COMBINED. EDWARD D. SMITH, Erie, Pa. Filed Apr. 20, 1921. Serial No. 462,970. 4 Claims. (Cl. 229—8.5.)



1. A bank book and savings bank combined, comprising an account section and a savings bank section, the latter consisting of an intermediate part and inner and outer parts, having a circular opening, a revoluble disk mounted in said opening and provided with a plurality of coin receiving pockets, the edge of the intermediate part having a coin entrance opening, and a spring tensioned closure for said entrance opening, adapted to be moved to one side to permit the insertion of a coin into the pockets of the disk.

1,423,271. PIANO PLAYER. CHARLES H. SPENCER, Baltimore, Md., assignor to H. S. Dulaney, Baltimore, Md. Filed May 13, 1919. Serial No. 296,918. 8 Claims. (Cl. 84—50.)



5. In a pneumatic piano player, a player unit comprising a bellows, air passages, valves controlling the passages, a diaphragm for operating said valves to connect the bellows to the ontside air and the vacuum alternately, the diaphragm having an air escape opening, means for closing said opening when pressure is applied to the diaphragm to operate the valves and connect the bellows to the vacuum and uncovering it when the pressure is removed.

8. A piano key having a pneumatic unit wholly embodied therein to move therewith.

1,423,272. FOLDABLE CARTON. ERICH STEUDEL, Chicago, Ill. Filed Aug. 2, 1919. Serial No. 314,862. 3 Claims. (Cl. 229—16.)



1. A foldable carton comprising a strip of flexible material transversely creased for bending along a plurality of lines adapted to form the corners of a carton having a desired plurality of sides; a plurality of slits in a plurality of said sides; and a securing tongue at one end of said strip adapted to be selectively engaged with said slits to form a carton of various desired sizes and shapes, substantially as described.

1,423,273. CHAIN LINK. ERICH W. O. STEUDEL, Chicago, Ill. Filed Mar. 8, 1920. Serial No. 364,282. 1 Claim. (Cl. 59—85.)



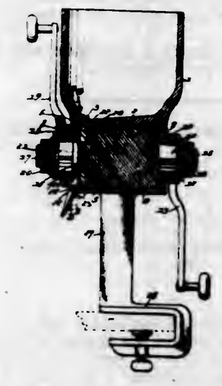
A detachable chain link formed of a single piece of wire bent into loop form, the ends of said link being correspondingly bent to form substantially circular eyes and converged inwardly toward each other to prevent lateral play of a related hook and brought together and formed into a hook having a curvature in substantial continuation of that of said eyes, to prevent accidental detachment of said link.

1,423,274. ELECTRIC SWITCH. CLARENCE C. STIRLING, Hartford, Conn. Filed Sept. 30, 1920. Serial No. 413,808. 9 Claims. (Cl. 200—67.)



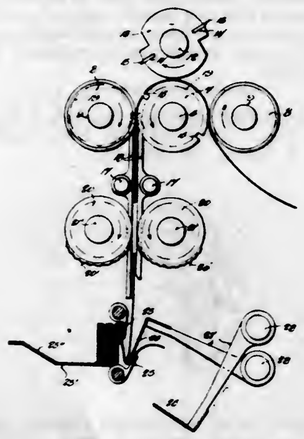
1. An electric switch comprising a switching member, an actuator, a rocking member, a spring actuated pin carried by the rocking member and co-operative with the switching member, the actuator having a part and also having means to cause said part to operate the rocking member successively in opposite directions on successive movements of the actuator, the rocking member on said successive movements of the actuator causing the pin to shift the switching member successively between "on" and "off" positions.

1,423,275. GRAIN-GRINDING MACHINE. JAMES K. STRACHAN, Windsor, Ontario, Canada. Filed Feb. 25, 1922. Serial No. 539,166. 5 Claims. (Cl. 83—8.)



1. In a grinding machine as set forth, the combination with a casing having a hopper thereabove, an opening communicating with the hopper and the casing, one end of the casing having a stationary grinding grid, a revoluble burr mounted in said casing and provided on one end with diametrically opposite pockets to register with the opening of communication, to carry the grain from the opening to and between the burr and the grid for grinding and crushing the same, and a grinding plate carried by and rotatable with the burr and operating on the exterior of the grid, and means for operating the burr.

1,423,276. PAPER-FOLDING MACHINE. LOUIS A. STRAUBEL, Green Bay, Wis. Filed Apr. 9, 1921. Serial No. 460,066. 5 Claims. (Cl. 270—39.)



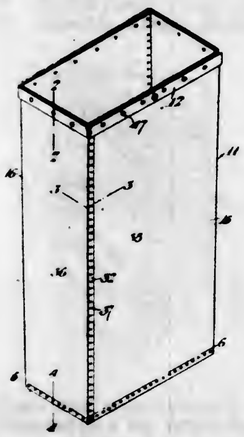
5. In a machine of the class described, the combination of means for partially cutting and feeding the work material, means for folding said work material into books of three or more leaves, and a pair of rollers driven at a greater speed than the feeding means for severing the cut portion of work material and delivering the same into the last fold of the preceding sheet.

1,423,277. PNEUMATIC TIRE. GEORGE E. STUART and CHARLES A. STUART, Oregon City, Oreg. Filed Jan. 7, 1920. Serial No. 349,931. 3 Claims. (Cl. 152—18.)



1. In a pneumatic tire, a series of cells having a vulcanizable envelope, a fibrous filling, and a puncture resisting strip arranged between the filling and envelope throughout a determinate area of such cell.

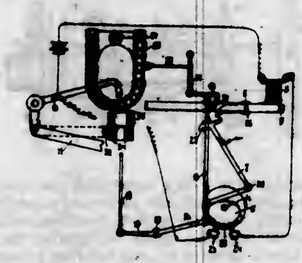
1,423,278. ICE CAN. HOWARD G. TALLERDAY, San Francisco, Calif., assignor to Western Pipe and Steel Company of California, a Corporation of California. Filed Apr. 28, 1921. Serial No. 465,321. 2 Claims. (Cl. 220—73.)



1. An ice can comprising a body portion; a reinforcing ring at the top; cut corners at the bottom of said body portion; channels formed by making a single bend inwardly and upwardly of the side plates between the cut corners; a bottom; a continuous flange of a single thickness on said bottom extending into said channels; reinforcing members having continuous corners in said channels between the flange of the bottom and the inside wall of the channel, the channel portion of the side plates, flange and reinforcing members being riveted together and treated with hot solder on the inside of the can along the joint between the sides of the can.

1,423,279. REPLENISHING MECHANISM FOR MULTI-COLOR LOOMS. HARRY TER KUILE, Enschede, Netherlands. Filed June 16, 1920. Serial No. 389,432. 2 Claims. (Cl. 139—65.)

1. Automatic cops substituting mechanism comprising a cops store mounted for movement, a movable cops ejecting element, an operating rod, means for moving the cops store including a member arranged for engagement with and disengagement from said operating rod, means operated by loom shaft for moving said operating rod, a member carried by said rod to engage and disengage said loom shaft operated means, an electro-magnet to move said engaging means to engaging position, circuit closing means including a member moved by said loom shaft, and means to normally hold said member of the cops store moving means out of engagement with the operating rod, a change box having an electric feeler, including a contact bow



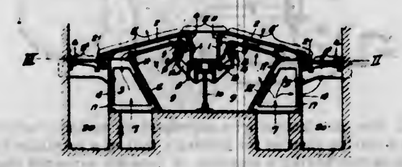
and a contact member for each of its compartments, and an electric circuit including the windings of said electro-magnet, said relatively fixed contacts, and a contact for successive engagement with the contact members of the change box.

1,423,280. KEY-CARRYING CHAIN. BENJAMIN URICH, Milwaukee, Wis. Filed Feb. 20, 1922. Serial No. 538,057. 3 Claims. (Cl. 70—99.)



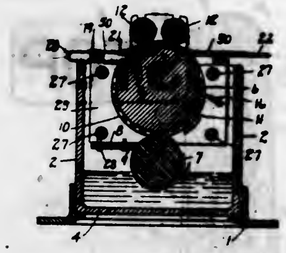
1. In a key carrying chain, a shell socketed at its ends, a chain the ends of which are adapted to engage the sockets of the shell, and means on the shell for dividing the chain into a plurality of key holding sections.

1,423,281. FURNACE. JOHN VAN BRUNT, New York, N. Y., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed June 22, 1918. Serial No. 241,333. 9 Claims. (Cl. 110—47.)



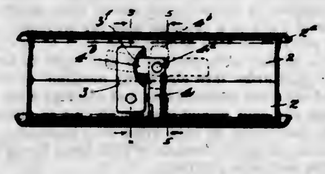
5. In a stoker furnace a combination of a retort, a series of tubular grate bars extending therefrom, said bars having tuyère openings at their retort ends, a chamber located below the central portions of said bars, and a duct adapted to supply air directly both to the ends of said tubular bars remote from said retort and to said chamber, so that air from said duct may pass directly to and through said bars and discharge through said tuyère openings and air from said duct may pass directly to said chamber and escape therefrom between said bars, said bars having air passages between them.

1,423,282. PASTING MACHINE. LOUIS J. VAN GUELPEN, Cincinnati, Ohio. Filed Mar. 17, 1919. Serial No. 283,223. Renewed Feb. 15, 1922. Serial No. 536,818. 7 Claims. (Cl. 91—50.)



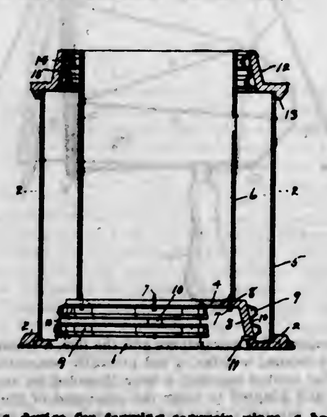
1. In a pasting machine of the character described, a paste feeding roll, a stripper therefor, a paste distributing roll, a stripper therefor, pressure rolls, and delivery fingers for receiving the material off of the paste distributing roll.

1,423,283. DEMOUNTABLE RIM. FRED H. VAN LOOZEN, Lakewood, Ohio. Filed Mar. 10, 1921. Serial No. 451,385. 4 Claims. (Cl. 301—35.)



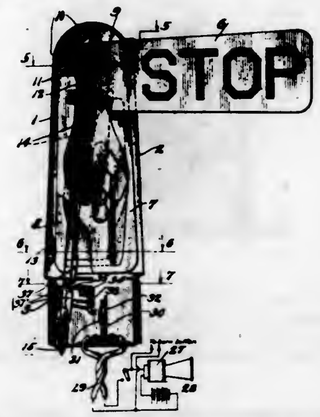
1. In a demountable rim, a pair of abutting circumferentially divided rim sections provided with subjacent spring coupling members, and lever members adapted in one position to hold said spring coupling members in locked position and in another position to engage and unlock the same.

1,423,284. FORM FOR CONCRETE PIPES. FREDERICK H. WEAVER, New York, N. Y. Filed July 12, 1921. Serial No. 484,037. 4 Claims. (Cl. 25—128.)



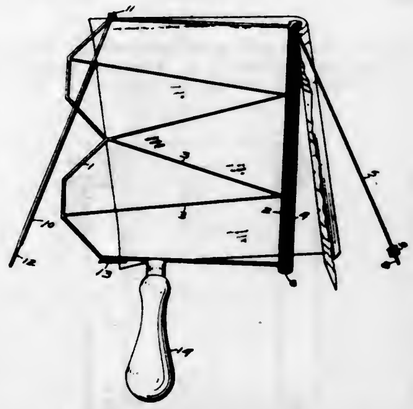
1. In a device for forming concrete pipes, a base, two split spring-rings fitted over said base and held thereon by friction.

1,423,285. VEHICLE SIGNAL. HARRY A. WHITMAN, Binghamton, N. Y., assignor to Selina J. Whitman, Binghamton, N. Y. Filed Apr. 1, 1920. Serial No. 370,443. 2 Claims. (Cl. 116—53.)



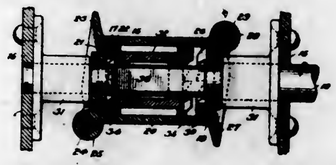
1. In a vehicle signal of the class described, the combination of a casing or housing made in sections, bolts extending transversely through said housing for holding said sections together, a plurality of signal arms mounted upon one of said bolts as a common axis for movement into signalling position, a stop shoulder on each of said arms arranged to engage with another of said bolts to limit movement of said arms into signalling position, spring means mounted upon the common axis and coacting with said stop shoulders and said second mentioned bolt to yieldingly oppose the movement of said arms into signalling position, and means connected to each of said arms for shifting the same into operative position.

1,423,286. PAPER HOLDER. SAMUEL WILLIAMS, Toledo, Ohio. Filed Dec. 12, 1921. Serial No. 521,593. 1 Claim. (Cl. 129—38.)



In a support for newspapers and the like, a frame having a slotted tubular member, a rod pivotally connected to one end of the slotted member, a burr threaded on one end of the rod and adapted to enter the other end of the tubular member, a pivoted slotted bar supported on the frame and extending on opposite sides of the frame, a catch for engaging the slotted bar for holding it in position.

1,423,287. HOPPER-DOOR MECHANISM. CLARENCE H. WILLIAMSON, Bellwood, Pa. Filed May 13, 1920, Serial No. 381,028. Renewed Mar. 16, 1922. Serial No. 544,356. 11 Claims. (Cl. 105—300.)



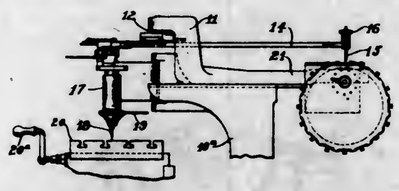
1. The combination with a hopper door operating mechanism having releasing and take up devices connected thereto, of a winding drum for said devices comprising differentially movable sections, means for rotating the winding drum and means operated by said rotating means for disconnecting one of the differentially movable drum sections therefrom.

1,423,288. DENTAL FASTENING FOR REMOVABLE BRIDGES AND PARTIAL PLATES. WILLIAM L. WITHERS, Salt Lake City, Utah. Filed May 15, 1922. Serial No. 561,154. 3 Claims. (Cl. 32—12.)



1. In a dental fastening, in combination, a keeper and an anchor, said keeper having an opening therein and a slot down the side for receiving said anchor, the bottom of said keeper being round, the sides of said keeper being bent inward and then ontward, the bottom of said anchor being round and a loop formed therein, the sides of said anchor being bent inward and then outward to fit snugly within said keeper and to allow for a slight rocking movement.

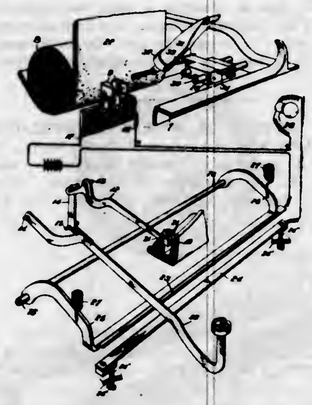
1,423,289. ENGRAVING MACHINE. GEORGE R. WORNER, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Aug. 31, 1920. Serial No. 407,087. 9 Claims. (Cl. 33—23.)



1. The combination with an engraving machine comprising a tracing element for guiding a tool, of a rotatable templet carrier having a plurality of templets arranged thereon in planes substantially parallel with its rotary axis and adapted to be brought by the rotation of the carrier selectively to position for cooperation with the tracing element.

1,423,290. MATRIX-MAKING MACHINE. ISAIAH N. ZELLER, Chicago, Ill. Filed Mar. 7, 1919. Serial No. 281,253. 15 Claims. (Cl. 197—6.)

1. A matrix making machine comprising a platen, for the matrix blank, a pair of guides disposed in impression position with relation to the platen and projecting outwardly therefrom, an electric circuit including said guides, a plurality of pivoted type-bars, type blocks bearing type characters mounted on said bars and adapted to contact with said guides to close said circuit before the type character



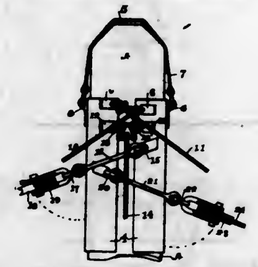
engages the matrix blank, means for swinging said type-bars separately to slide between said guides, and a matrix blank on said platen.

1,423,291. PUMP AND PUMPING SYSTEM. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 16, 1915. Serial No. 50,941. 153 Claims. (Cl. 103—246.)



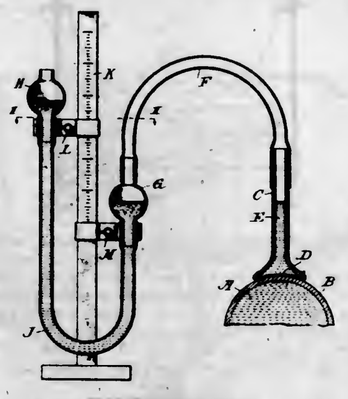
1. In a pump, the combination of a single chamber having inlet and outlet valves for the admission and expulsion of liquid, two ports, one for exhaust and one from a source of motive fluid, a mechanically connected valve structure for alternately closing one of said ports and opening the other, means moved by pressure of the motive fluid for opening the exhaust port and closing the compressed air port, and valve means lying within the chamber and controlled by the rise of liquid in said chamber for controlling the pressure operated means for closing the exhaust port and opening the port for motive fluid.

1,423,292. SPAR-TREE PROTECTOR AND FASTENING DEVICE FOR HIGH-LEAD BLOCKS. WILLIAM R. ALLEN and THOMAS K. MCREA, Glacier, Wash.; said McRea assignor to said Allen. Filed July 18, 1921. Serial No. 485,778. 4 Claims. (Cl. 254—139.)



1. In combination, a spar tree, a pair of curved plates mounted on opposite sides of said tree and not entirely surrounding said tree, and a high-lead block fastened on one side of said tree to the plate on the opposite side of said tree from said block and adapted to bear on the plate adjacent to said block when not under operative strain.

1,423,293. TONOMETER. ALFRED AMSLER, Schaffhausen, Switzerland. Filed May 31, 1921. Serial No. 474,010. 2 Claims. (Cl. 73—44.)

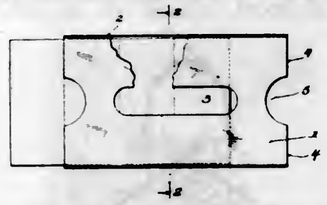


1. In a hydrostatic tonometer adapted to measure the constant internal pressure in vessels having flexible walls, such as the eyes, the combination of a tubular contact piece, a flexible diaphragm at one end thereof and a liquid in said tube the level of which is visible from the outside, means to apply a continuously variable and measureable fluid pressure over the liquid level in said contact piece until the pressures on both sides of the diaphragm are equal, the moment of said equalisation of pressures being ascertained by a sudden change of the liquid level occurring in said tube upon the previously bulged in diaphragm beginning to flatten, and means to indicate the exact amount of the pressure acting upon the diaphragm at the moment of equalization of the pressures.

1,423,294. CARD HOLDER. ADOLPH ANDERSON, West Allis, Wis. Filed May 23, 1921. Serial No. 472,006. 2 Claims. (Cl. 206—39.)

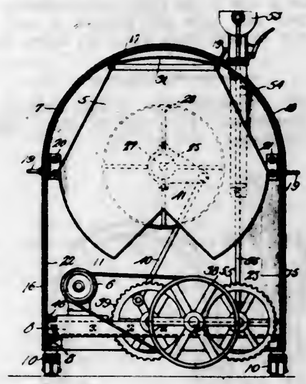
1. A card or ticket holder comprising a flattened tubular section open at its ends, the side walls of which

sections are centrally apertured and concave convex so as to form inner longitudinal gripping surfaces for the tickets or card, the longitudinal edges being folded to



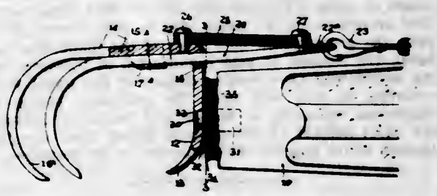
form loops, and the end edges of the jacket being formed with straight cutting surfaces intersected by central recesses.

1,423,295. WASHING MACHINE. ADOLPH F. ANDERSON, Chicago, Ill., assignor to Apex Appliance Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1919. Serial No. 336,362. 3 Claims. (Cl. 68—21.)



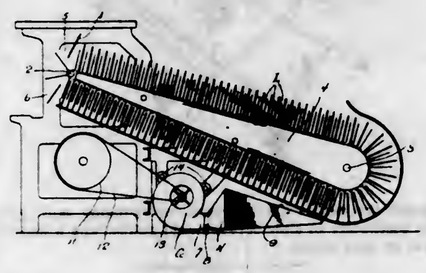
3. A washing machine having a housing with its longest axis in a vertical plane comprising two end walls each made from a single piece of sheet metal provided with an inwardly extending flange around three sides thereof, and a pair of fixed side walls and a slidable curved top wall held in position by the flanges of the end walls; a tub journaled in bearings supported on the end walls and means entirely within the housing to oscillate the tub.

1,423,296. ARTIFICIAL BODY MEMBER. ROBERT FRANCIS ARMSTRONG, Kansas City, Mo. Filed Oct. 29, 1921. Serial No. 511,295. 6 Claims. (Cl. 3—12.)



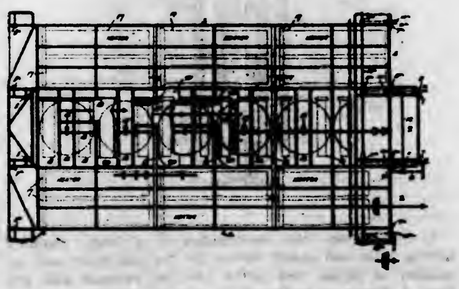
6. In combination, a socket having a threaded opening, an artificial body member and means for releasably and adjustably connecting the artificial body member to the socket including a threaded stud carried by the artificial body member and engaged in the threaded opening of the socket member, a washer arranged on the threaded stud adjacent the artificial body member and a disk of rubber interposed between the washer and the socket member and compressed when the stud is threaded into its opening whereby the disk is effective to urge the threads of the stud and of the threaded opening into locking engagement with each other to releasably lock the body member to any position to which it may be adjusted relative to the socket.

1,423,297. DRYING BLOWER FOR ENVELOPE-MAKING MACHINES. ADDISON E. AUGUSTINE, Hackensack, N. J., assignor to Chester Machine Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 24, 1920. Serial No. 360,967. 6 Claims. (Cl. 34—12.)



6. An air box for drying blowers comprising a box otherwise closed on all sides but having an air receiving opening in one wall and having a plurality of air discharge openings in another wall, the air discharge openings providing a greater area of discharge for the air nearest to said air receiving opening and relatively less area of discharge further from said air receiving opening, and said box being of a size greatest nearer said air receiving opening and being tapered to a smaller size further from said air receiving opening.

1,423,298. DRIER. ELWOOD B. AYRES and THOMAS H. RHOADS, Philadelphia, Pa., assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 1, 1921. Serial No. 481,793. 4 Claims. (Cl. 34—12.)



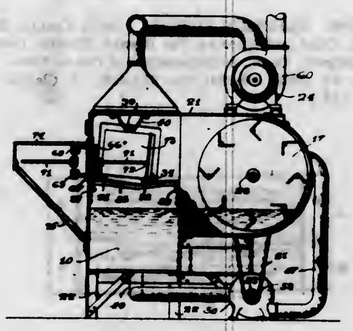
2. The combination in a drier, of a casing enclosing three longitudinal chambers arranged side by side; a conveyer for carrying material to be dried in each chamber; a central row of circulating fans in the upper portion of the central drying chamber; a series of heating pipes in the upper portion of the drier; and means for driving the fans so that the air will circulate downwards in the central chamber and upwards in the side chambers.

1,423,299. RESILIENT WHEEL. ASA F. BATCHELDER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 16, 1921. Serial No. 522,895. 4 Claims. (Cl. 74—29.)



1. A resilient wheel comprising an outer member in the form of a ring and having substantially radial slots in its inner periphery, an inner member cooperating with said outer member and having substantially radial slots in its outer periphery registering with said slots in the outer member, the inside diameter of the outer member and the outside diameter of the inner member being approximately equal, and leaf springs in said slots, said springs being placed in said slots under tension.

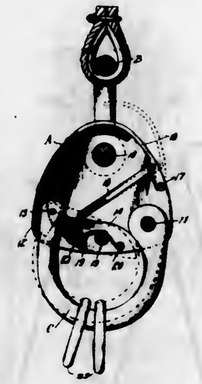
1,423,300. MACHINE FOR WASHING BOXES, CANS, AND OTHER ARTICLES. GEORGE S. BLAKESLEE, Chicago, Ill. Filed Feb. 23, 1917. Serial No. 150,474. 15 Claims. (Cl. 141—7.)



3. A washing machine of the character described comprising a housing substantially enclosing a cleansing compartment, means for supporting the articles to be cleansed in an inclined position as they pass through the cleansing compartment, a tank, a paddle wheel at one side of the cleansing compartment operating to throw water from said tank into and around the articles to be washed, and means at the opposite side of said housing from said paddle wheel for moving the articles through the cleansing compartment.

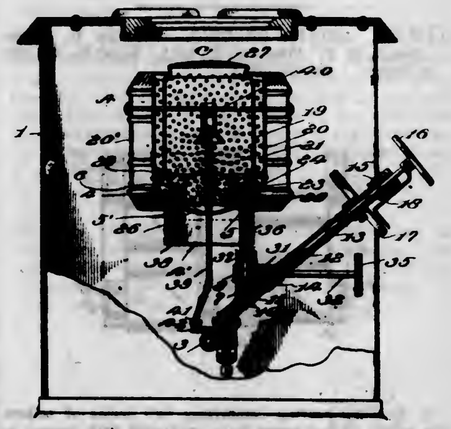
1,423,301. LOGGING HOOK. GOTTFRED BERGMAN, Portland, Oreg. Filed Aug. 5, 1920. Serial No. 401,844. 3 Claims. (Cl. 294—83.)

1. In a device of the character described, the combination of a housing, a hook mounted therein and pivoted at one end, a pivoted member adapted to engage both ends of the hook and to support the hook at its free end,



and means for operating said pivoted member, substantially as set forth.

1,423,302. WICKLESS OIL BURNER. ATWELL J. BLACKFORD, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 31, 1921. Serial No. 497,208. 15 Claims. (Cl. 158—86.)

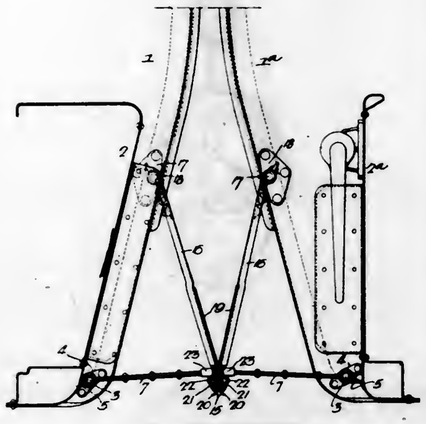


1. A burner comprising a trough, a combustion section seated above the trough with its lower end around the upper end of the trough, and the combustion section vertically adjustable in relation to the trough without disturbing its operative position to the trough, for regulating the flame.

1,423,303. SAFETY GATE FOR CARS. JAMES A. BROOKS, Philadelphia, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 3, 1921. Serial No. 519,730. 2 Claims. (Cl. 105—439.)

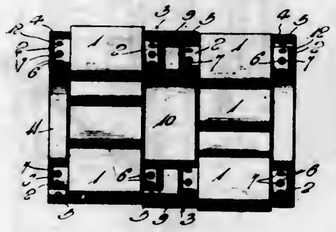
2. The combination in a safety gate for cars, of two cars; a post pivotally mounted on each car at one end

and near one side; a collapsible gate consisting of a series of bars pivotally connected to the upper end of the post; a plunger located within the post and to which the lower end of the gate is pivoted; a coiled spring



within the post bearing against the plunger so as to project the gate; an arm pivoted to the car platform some distance from the side, and an abutment bar attached to the arm and connected to the gate.

1,423,304. ROLLER BEARING. WILLIAM D. BURNS, Amenia, N. Y. Filed Apr. 25, 1921. Serial No. 464,093. 2 Claims. (Cl. 64—60.)



1. A roller bearing comprising two series of rollers, the rollers of one series being staggered with respect to those of the other, the ends of all rollers being reduced, a relatively wide track ring on which the inner reduced ends of the rollers are adapted to roll, and relatively narrow track rings upon which the outer reduced ends of said rollers travel, said roller ends and track rings having intermeshing gear faces.

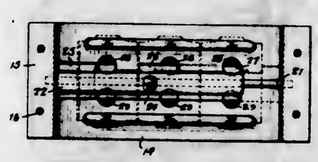
1,423,305. LIQUID MEASURING AND DISPENSING APPARATUS. TIMOTHY F. CALLAHAN, Squantum, Mass. Filed Sept. 2, 1919. Serial No. 321,119. 2 Claims. (Cl. 265—27.)

1. In liquid measuring and dispensing apparatus; a storage tank; a compressed air pipe leading to the top of the tank; a standard; a weighing mechanism supported by that standard; a graduated container carried by the weighing mechanism; a discharge pipe from the tank leading through an aperture in the top of the container to near the bottom thereof and discharging upward; all



combined to cause the liquid to rise to the container by air pressure and the liquid to be simultaneously measured by volume and weight.

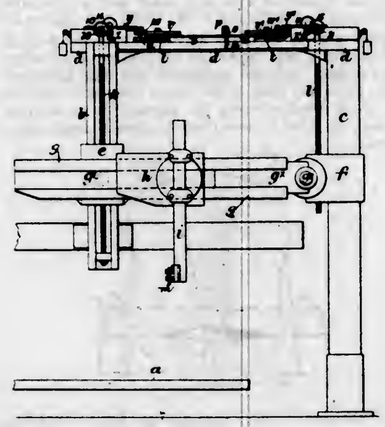
1,423,306. ELECTRIC SWITCH. HOYT CATLIN, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 31, 1920. Serial No. 355,320. 3 Claims. (Cl. 200—18.)



1. A group of independent switch mechanisms, a common control lever to operate the same, said control lever being displaceable longitudinally with respect to the several switch mechanisms, and means fixedly associated with said lever for operating certain of said switches at will, singly or in groups, depending upon the longitudinal position of the lever.

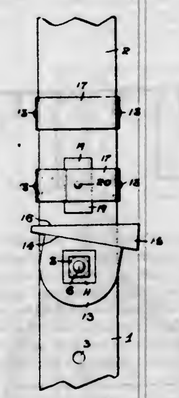
1,423,307. MACHINE FOR PLANING OR MACHINING PROPELLER BLADES. GILBERT AUSTIN CLAVEY, Battersea Park, England. Filed Oct. 19, 1920. Serial No. 418,022. 8 Claims. (Cl. 90—31.)

1. An apparatus for machining propeller blades and like helical surfaces, comprising a power driven revoluble table, a tool radially reciprocable across said table, a tool feed mechanism adapted for feeding said tool perpendicularly to the table and in the direction of the pitch, and cam control mechanism operative upon said tool



feed for changing said feed in accordance with the varying shape of the helical surface.

1,423,308. STAGING FOR BUILDINGS AND OTHER STRUCTURES. SAMUEL S. COLT, Orange, N. J. Filed Oct. 27, 1920. Serial No. 419,814. 4 Claims. (Cl. 248—21.)



1. In a staging or similar structure, a pair of retaining members having portions arranged side by side, a bolt connected with one of said members, a wedge-receiving element oscillatorily mounted upon said bolt, and a wedge disposed between said wedge-receiving element and the other retaining member for adjustment of said members.

1,423,309. ELECTRICAL CONDUIT SYSTEM. EGBERT H. CURTIS, Spring Valley, N. Y. Filed July 6, 1918. Serial No. 243,514. 3 Claims. (Cl. 247—27.)

1. An approximately T-shaped hollow body having horizontal tubular arms and a vertical tubular arm, an attaching element secured to the bottom of the hollow body for securing the same in place, in combination with a



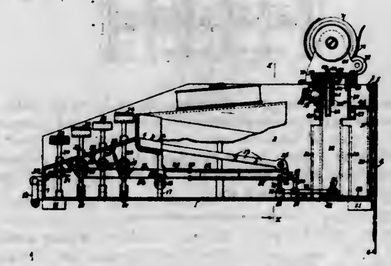
tube for detachable connection with the vertical tubular arm, and a level, element connected with the upper end of the tube and extending transversely thereof.

1,423,310. WINDOW-SASH FASTENER. ALONZO E. DAVIS, Ashtabula, Ohio. Filed Jan. 14, 1921. Serial No. 437,139. 7 Claims. (Cl. 292—228.)



1. A window fastening having in combination a plate adapted to be secured to the top of the lower sash and having an opening in it, a pawl pivoted to the plate and adapted to engage a shoulder on the upper sash, a leaf spring extending through the opening of the plate and secured between it and the top of the sash, said spring extending upwardly and engaging the front of the pawl, and a lever member rigidly secured to the side of the pawl and extending laterally therefrom and then downwardly and terminating in a thumb piece lying adjacent to but above the top of the sash.

1,423,311. TYPEWRITING MACHINE. PHILIPPE DE CLAMECY, Boston, Mass., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 21, 1920. Serial No. 352,927. 13 Claims. (Cl. 197—186.)



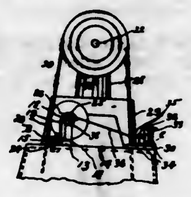
1. In a typewriting machine, the combination of a carriage supporting frame, a carriage support mounted on said frame to turn around a center that extends fore and aft of the machine and also to slide on said frame, and a carriage mounted to travel on said support.

1,423,312. FLUID-FUEL BURNER. THOMAS STOKES DUNN, Brookline, Mass. Filed Jan. 16, 1920. Serial No. 361,828. 10 Claims. (Cl. 158—29.)



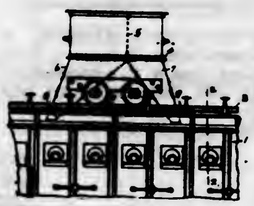
1. A hollow cylindrical fuel burner head having perforated side walls and a plurality of vanes adapted to distribute fuel substantially uniformly to the perforations.

1,423,313. BOBBIN WINDER. PHILIP FAIRCLEUGH DOUGLAS, Minnedosa, Canada. Filed Feb. 16, 1921. Serial No. 445,529. 4 Claims. (Cl. 242—22.)



1. A device of the kind described comprising a suitably supported spindle adapted to receive a bobbin in intimate relation therewith, a member forming a hood over the bobbin, an opening in the face of the hood, means to feed thread to the bobbin through the opening in the hood, means to rotate the spindle from the sewing machine to fill the bobbin and a slit upwardly directed from the opening in the hood in which the thread jams to stop rotation of the spindle when the bobbin is full.

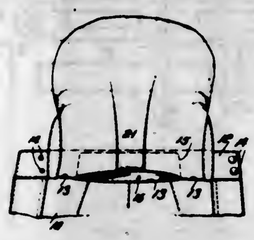
1,423,314. CHARGING CAR. FERDINAND FISCHITT, Cherryvale, Kans. Original application filed Jan. 26, 1921, Serial No. 440,761. Divided and this application filed July 12, 1921. Serial No. 484,158. 2 Claims. (Cl. 105—248.)



1. A furnace charging car including a suitable body, a transverse partition separating the body into end compartments, a pair of hoppers into which each compartment is formed, each hopper being extended downwardly forming a down spout and a gate controlling the discharge of material through each down spout.

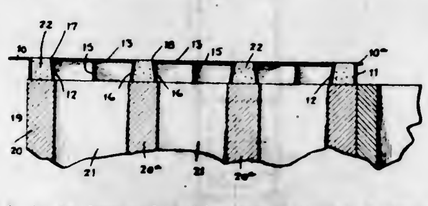
1,423,315. RAIN CAPE. LEOPOLD H. GEIS, Mount Arlington, N. J., assignor to New York Mackintosh Clothing Co., New York, N. Y., a Corporation of New York. Filed June 10, 1921. Serial No. 476,399. 6 Claims. (Cl. 2—60.)

1. A garment of the character described comprising a cape to be fastened around the neck of the wearer and a hood to be worn on the head and secured at its lower edge to the neck-portion of said cape, said garment at the back of the neck having a horizontally disposed open mouthed pocket extending inwardly and closed at its inner portion to protect the neck of the wearer, said pocket comprising an inner part secured to the upper edge of the cape and an outer part connected with said inner part and capable of being turned upwardly and to the outer free edge of which the lower edge of the hood at the back of the neck is secured, whereby said pocket is adapted to open upwardly when the head is thrust forwardly and thus afford an extension along the lines of the strain created by such movement of the head, whereby the garment is saved from injury and the hood is permitted to remain comfortably on the head.



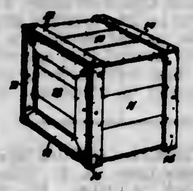
6. A garment of the character described comprising a cape, a neck-band fastened thereto and to be secured around the neck of the wearer, and a hood fastened at its lower edges to the neck-band and cape at the lower edge of the neck-band and having at the lower portion of its back a vertical box-plait free to collapse inwardly on an upward strain on the hood and to expand laterally to meet variations of head conditions.

1,423,316. MORTAR SPREADER. JOHN GIOVAGNOLI, Flushing, N. Y., assignor of two-thirds to Roberts, Nash & Company, Inc., Flushing, N. Y., a Corporation of New York. Filed May 10, 1921. Serial No. 468,447. 2 Claims. (Cl. 72—128.)



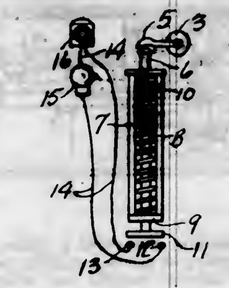
1. As an improved article of manufacture, a mortar spreader having longitudinal and transverse channels adapted to register with the walls of a hollow tile or the like, said spreader having a plane top surface, and having the lower edges of the channel walls also in a plane paralled with the top surface, the outer side walls of the spreader being left flat and unobstructed and projecting on all sides beyond the outer channel wall to form handles.

1,423,317. WOODEN SHIPPING CASE. ABRAHAM H. GODKEVITCH, New York, N. Y. Filed Nov. 15, 1921. Serial No. 515,221. 10 Claims. (Cl. 217—56.)



1. A shipping case having a fastening device including a member secured to and engaging a side and an end wall of the case at a corner, and a member secured to the third wall at said corner, and engaging with said first mentioned member to lock said third wall to both of the other two walls upon the closing of the case.

1,423,318. SIGNALING DEVICE FOR RAILROADS. OLIVER GREEN, Michigan City, Ind. Filed Feb. 27, 1922. Serial No. 539,406. 1 Claim. (Cl. 246—196.)



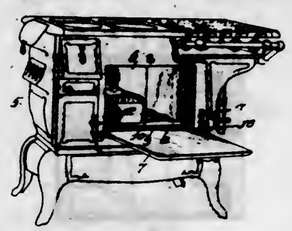
A signaling device for railway locomotives, comprising a casing outside the locomotive cab; a shaft journaled through the casing, the outer end having a depending contact arm and the inner end a depressor arm; a guide mounted inside the cab; a spring set contact pin slidingly mounted in the guide beneath the depressor arm; an insulated contact strip at the lower end of the contact pin; an electrical circuit embodying a bell and red light and two contacts adapted to be closed by the contact strip on the depression of the contact pin; and an adjustable arm mounted alongside the track and adapted to be impinged by the contact arm extended from the cab.

1,423,319. LAMP SHADE. MEYER GREITZER, New York, N. Y. Filed Aug. 31, 1921. Serial No. 497,082. 6 Claims. (Cl. 240—108.)



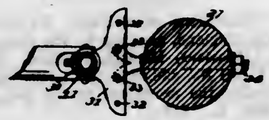
1. A lamp shade, comprising a spherical member adapted to be removably secured to a lamp and provided with an elongated opening, a light-directing member movable within said opening, and means for closing the portions of the opening not occupied by said movable member.

1,423,320. UTENSIL-HANDLING DEVICE FOR BAKE OVENS. RUPERT HAAS, St. Louis, Mo. Filed July 18, 1921. Serial No. 485,471. 4 Claims. (Cl. 126—337.)



1. A utensil handling device for bake ovens, comprising a plurality of rollers located in a bake oven, and a combined lever and crank arm mechanism for rotating said rollers in either direction.

1,423,321. GATE HINGE. HENRY T. HACKER, Lovell, Wyo. Filed July 29, 1920. Serial No. 399,963. 2 Claims. (Cl. 16—131.)



1. The combination with a gate and gate post, of means carried by the post adjacent the bottom thereof and having a pivotal connection with the gate adjacent the bottom and at that end adjacent the post, and a hinge connecting the gate with the post adjacent the top of the gate and comprising a duality of elements of which one is fixedly mounted in the post and the other pivotally connected with the gate and adjustable laterally of the fixed member to deflect the gate laterally at the top for the purpose specified.

1,423,322. CONDIMENT DISPENSER OR CONTAINER. CHARLES H. HANEKER, Philadelphia, Pa. Filed Mar 25, 1922. Serial No. 546,677. 3 Claims. (Cl. 65—57.)

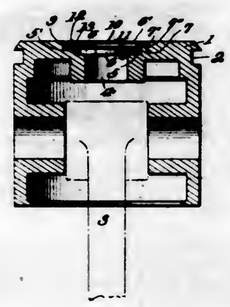


1. A condiment dispenser comprising a casing having an open end, a cross bar carried at said open end, a cover, and a disc closing one end of said cover and having means to lock with said cross bar to secure the cover with respect thereto.

1,423,323. VALVE CONSTRUCTION. GEORGE EDGAR HAZARD, Rochester, N. Y., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Filed Apr. 14, 1921. Serial No. 461,223. 9 Claims. (Cl. 251—127.)

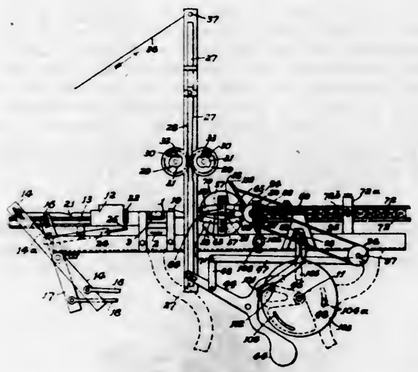
6. An improved valve construction comprising a body provided with an opening, inner and outer flanges sur-

rounding the opening, a flat valve carried upon the inner flange and adapted to close the opening, and a valve retaining ring member greater in width than the outer



flange expanded between the outer flange and its surrounding wall and extending beyond the inner edge of the flange, for the purpose described.

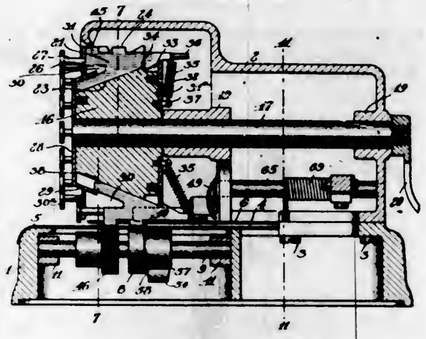
1,423,324. WRAPPING MACHINE. FRANCIS HEATH, Huddersfield, England, assignor to The Heath Wrapper Company, Littlemoor, Mirfield, England. Filed Nov. 26, 1920. Serial No. 426,435. 12 Claims. (Cl. 93—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a wrapping machine, a conveyer for the blanks, a guide arranged crosswise of the conveyer, a pusher slidable in the said guide under the conveyer and having a positioning device at its front end, a slide arranged above the conveyer and adapted to push a blank off it into engagement with the said positioning device, and means for sliding the pusher and the slide independently of each other.

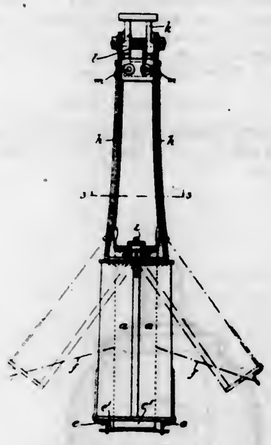
6. In a wrapping machine, a slidable pusher; a wrapping and conveying device adapted to receive a blank and a sheet of wrapping material from the pusher, said device comprising a revoluble frame, an endless apron supported by the frame, crossbars secured to the end portions of the apron and operatively connected together, and means for revolving the frame intermittently to place the said crossbars alternately in the path of the pusher, the crossbar for the time being on the inlet side of the device being adapted to form a pocket in the apron in which the blank is positioned by the pusher, and the other crossbar being adapted to eject the previously inserted blank.

1,423,325. PRINTING MACHINE. JOHN HEBERLING, Rochester, N. Y. Filed Apr. 26, 1921. Serial No. 464,522. 41 Claims. (Cl. 101—19.)



1. A printing machine comprising a platen, a rotary carrier, and a plurality of printing elements mounted on said carrier and movable radially and axially of the carrier to and from a printing position for cooperation with the platen.

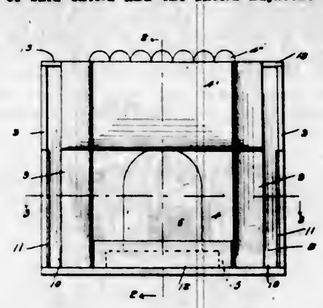
1,423,326. LANDING LIGHT OR FLARE FOR ATTACHING TO AIRCRAFT. HAROLD EDWARD SHERWIN HOLT, Farnborough, England. Filed Nov. 26, 1921. Serial No. 518,021. 10 Claims. (Cl. 240—1.)



6. A landing light comprising a flare holder, a flare body carried thereby and provided with igniting means, a shade attached to the flare holder and capable of being opened and closed, and means connecting the flare body and shade and controlled by the burning of the flare to regulate the opening of the shade.

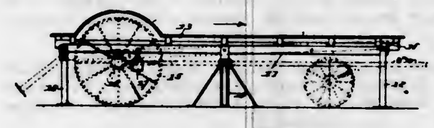
1,423,327. BANK-WINDOW SHIELD. HARRY W. HUNTRESS, Turlock, Calif. Filed June 22, 1920. Serial No. 390,787. 4 Claims. (Cl. 20—1.01.)

1. In combination with a counter, a shield rising therefrom, a side wall spaced therefrom, said shield having a door, fastening means for the door on the interior thereof and of said shield and the shield adjacent said side



wall extending rearwardly to protect the fastening means against unauthorized opening.

1,423,328. HAY-RACK LIFT. JOSEPH ANTON JOHNSON, Blue Earth, Minn. Filed July 9, 1920. Serial No. 395,097. 1 Claim. (Cl. 254—50.)



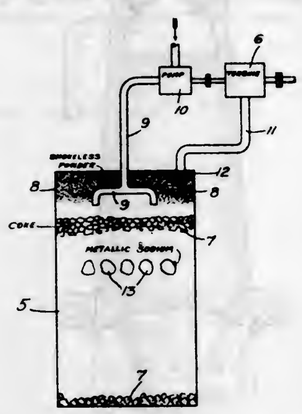
A hay rack lift having intermediately fulcrumed tilting rails arranged in parallelism and spaced at an interval exceeding the width of a wagon running gear, foldable tilting supports for each end of each rail pivotally connected with the latter and designed to rest upon the surface traversed by the wagon running gear, the rails being provided with stops at one extremity for engagement with a rack supported by the wagon, and counterweights mounted upon the rails adjacent the other extremity for maintaining the said extremities depressed when the foldable supports at that end are displaced.

1,423,329. SHIPPING PACKAGE FOR WATCHES. HENRY C. KARR, Washington, D. C., assignor of one-fifth to Emil Bonnelycke, Washington, D. C. Original application filed Feb. 18, 1921, Serial No. 446,067. Divided and this application filed May 26, 1921. Serial No. 472,815. 3 Claims. (Cl. 206—18.)



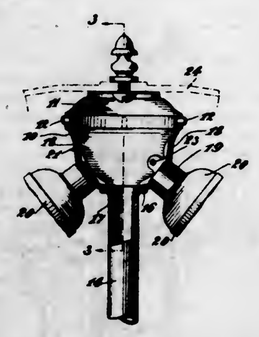
1. An improved shipping package for watches, comprising a box; a spring yoke laid flatwise therein and embodying a pair of spaced legs and a bridge connecting the same; and a watch inserted sidewise between said legs and having its stem engaged with said bridge, so that one leg overlies and the other leg underlies the watch to cushion the latter against shocks imparted to the box.

1,423,330. PRESSURE GENERATOR. ALEXANDER T. KASLEY, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Nov. 16, 1918. Serial No. 262,914. 5 Claims. (Cl. 60—42.)



1. In a pressure generator, a closed combustion chamber containing a fuel, means for delivering an oxygen bearing solution to the fuel, and means for initially heating the fuel in response to an influx of solution.

1,423,331. LIGHTING FIXTURE. KARL KELLER, Brooklyn, N. Y., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 1, 1921. Serial No. 497,651. 3 Claims. (Cl. 240—78.)

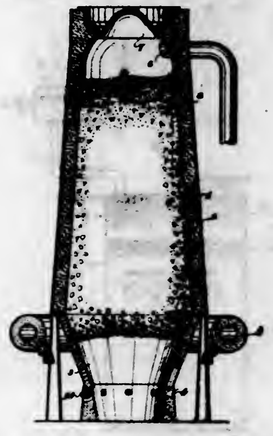


1. A lighting fixture comprising a shell provided with a plurality of spaced slots, shutters having a lug on one side with a threaded hole therein, set screws passing through holes in the shell and through said threaded holes in the lugs whereby said shutters are pivotally secured to the shell covering the slots therein at all times, and socket nipples carried by said shutters projecting through the slots in the shell.

1,423,332. PROCESS FOR THE SEALING OF CRACKS IN THE LINING OF BLAST FURNACES AND THE LIKE. THOMAS KENNAN, Birmingham, Ala. Filed Jan. 14, 1922. Serial No. 529,340. 4 Claims. (Cl. 266—1.)

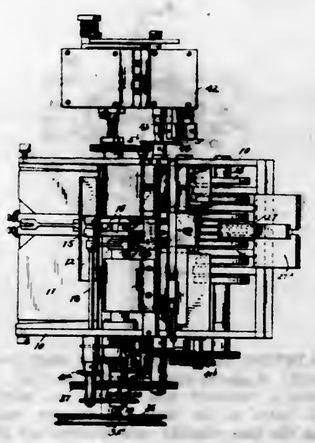
1. The hereindescribed process for the sealing of cracks in the lining of blast furnaces and the like, which con-

sists in raising the stock level above the cracked zone and concentrating a flow of air through the stock adjacent



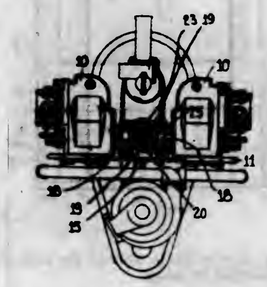
to and above the cracked zone to cause the same to melt and run down the furnace lining and enter the crack.

1,423,333. REGISTER-OPERATING MECHANISM. ROBERT E. KIMBALL, Cleveland, Ohio, assignor to The Tickometer Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Oct. 22, 1915, Serial No. 57,285. Divided and this application filed Sept. 8, 1919. Serial No. 322,380. 9 Claims. (Cl. 233—98.)



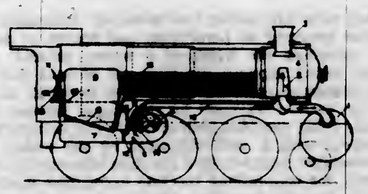
1. In a machine for counting transfers, tickets or similar devices having feeding means for feeding the devices one at a time therethrough, a shaft for operating a register for counting the devices as they are fed through the machine, means for operating the shaft including a continuously rotating member and a second rotary member engageable with but normally disengaged from the first, and means controlled by the movement of the devices from the support for causing direct intermittent driving engagement between said continuously rotating member and said second rotary member.

1,423,334. MAGNETO GEARING. CHARLES B. KERMAN, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Original application filed May 18, 1916, Serial No. 98,336. Divided and this application filed Aug. 10, 1917. Serial No. 185,517. 6 Claims. (Cl. 290—1.)



3. In an internal combustion engine of the reversible type comprising an engine frame, a crank shaft capable of being driven in a reverse direction, dual opposed magnetos mounted upon one end of the engine frame and a driving connection between said shaft and said magnetos comprising a single reversible element incorporated therein to provide for the operation of the magnetos in the same direction upon the reversal of rotation of the shaft.

1,423,335. STEAM BOILER WITH FORCED-DRAFT FURNACE. CONRAD KOHLER, Zurich, Switzerland. Filed Mar. 17, 1920. Serial No. 366,660. 5 Claims. (Cl. 110—147.)



1. In a steam-boiler with forced draft-furnace, the combination of a furnace consisting of a fire-box with fire door and closed ash-pit, an under-grate blower, a conduit connecting the blower and ash pit, a blast device, means including said conduit connecting the ash pit with the blast device, and means for opening and closing the conduit and said connecting means so that the pressure above atmospheric inside the fire box is removed and an under-pressure is generated.

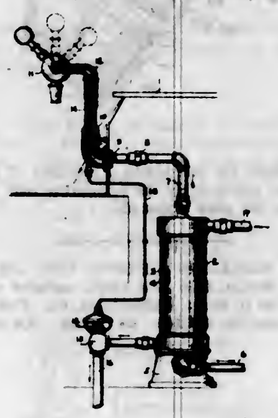
1,423,336. SANITARY CONTAINER. GUSTAV KORITTKE, Long Island City, N. Y. Filed Nov. 9, 1920. Serial No. 422,765. 1 Claim. (Cl. 211—32.)



A roll paper container comprising a rigid frame, a hinged casing attached thereto, opposed spring latching

means for holding said casing in normal position on said frame, releasing means therefor, a drum rotatable in the frame, said drum being adapted to carry a roll of paper, a weight roll bearing against said paper roll, lever arms pivoted in the sides of said frame for supporting said roll, serrated means at the bottom edge of said casing for perforating the paper, and means formed with said casing whereby the paper may be manually withdrawn.

1,423,337. AUTOMATIC WATER-COOLING SYSTEM. OTTO A. LABUS, Wisconsin Rapids, Wis. Filed Nov. 3, 1921. Serial No. 512,560. 5 Claims. (Cl. 225—21.)



1. In an automatic water cooling system, a duct for refrigerants, another duct for water to be cooled and arranged in heat exchanging relation to the first-named duct, a faucet for the escape of water from the second duct, and an automatic valve responsive to variations in the water pressure in the second duct, due to opening and closing of the faucet, and in turn included in and controlling the flow of the refrigerant to said first-named duct.

1,423,338. ALLOY AND THE METHOD OF PRODUCING SAME. CLEMENS A. LAISE, Weehawken, N. J., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y., a Corporation of New York. Filed Sept. 13, 1920. Serial No. 409,964. 23 Claims. (Cl. 75—1.)

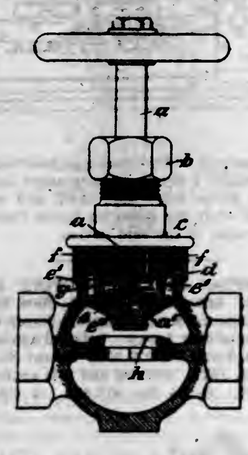
1. An alloy comprising tungsten, gold and vanadium, the tungsten predominating and the vanadium constituting about 0.1 per cent of the weight of said alloy.

1,423,339. SCREW GAUGE. CARL ASTOR LEDELL, Connersville, Ind. Filed Nov. 16, 1921. Serial No. 515,488. 11 Claims. (Cl. 33—147.)



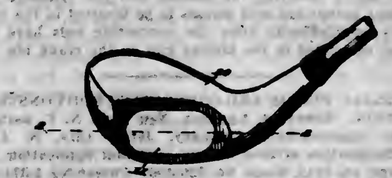
1. A thread measuring instrument comprising a main body, a roller provided with a circumferential portion formed to coact with the threads of the threaded element, means for yieldingly urging said roller transversely of its axis, an indicator, intermediate connections between the indicator and the roller to indicate variation of lateral position of the roller, and an abutment for the threaded member arranged in opposition to said roller.

1,423,340. VALVE. THOMAS WILLIAM LEES, Halifax, England. Filed Apr. 22, 1922. Serial No. 556,098. 2 Claims. (Cl. 251—88.)



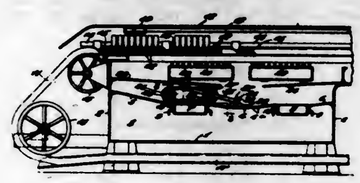
1. A valve comprising in combination a casing, a stuffing box and nut in the upper part thereof, a screwed spindle working through said stuffing box and nut, a collar on said spindle, an annular member fitting loosely on the spindle, a seat opening, a valve disc adapted to close said opening having on its back a hollow stem into which the annular member is screwed, said member being adapted to engage the collar on the side remote from the disc, a spring confined on the spindle between the upper side of the disc and the collar and normally acting to hold the annular member against the collar, a driving recess in the upper side of the disc and a driving projection on the end of the spindle fitting in the recess, said recess being of such a depth as will permit of a certain longitudinal movement of the spindle relatively to the disc as the valve is being closed but will cause the end of the spindle to contact with the base of the recess before the spring is fully compressed.

1,423,341. STRIKER PLATE FOR GOLF CLUBS. GEORGE A. LIPPINCOTT, Philadelphia, Pa. Filed Aug. 4, 1921. Serial No. 490,791. 7 Claims. (Cl. 46—4.)



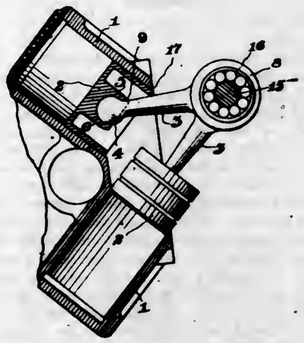
1. A striker plate for golf clubs formed of a suitable shaped section of the shell of a suitably thick and relatively non-brittle metal.

1,423,342. LABEL SEPARATOR AND REMOVER FOR BOTTLE-WASHING APPARATUS. CHARLES H. LOEW and JOHN R. GRUETTER, Cleveland, Ohio, assignors to The Loew Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Mar. 17, 1917, Serial No. 155,422. Divided and this application filed June 30, 1919. Serial No. 307,840. 5 Claims. (Cl. 141—7.)



2. In an apparatus of the character described, the combination of a shelf, a bottle support above said shelf, a label receiving device below said shelf, and means movable along said shelf for removing labels therefrom and delivering the same to the said device.

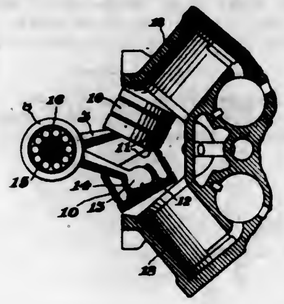
1,423,343. PISTON AND CONNECTING ROD CONSTRUCTION. ROBERT A. LUNDELL, New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed Apr. 18, 1918, Serial No. 229,306. Patent No. 1,371,701, dated Mar. 15, 1921. Divided and this application filed Oct. 23, 1920. Serial No. 418,889. 4 Claims. (Cl. 121—120.)



1. A multiple cylinder V-type fluid pressure motor, having a crank shaft and crank, cylinders located at equal acute angles on opposite sides of a plane passing through the axis of the crank shaft, pistons adapted to operate in the cylinders, connecting rods pivotally connected to said pistons and adapted to be assembled on the same crank pin before inserting the pistons into the cylinders, and means permitting said pistons to be inserted in the cylinders longitudinally after the connecting rods have first been assembled in the pistons and on the crank pin.

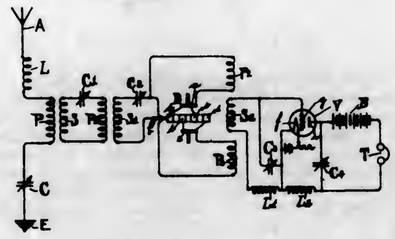
1,423,344. PISTON AND CONNECTING-ROD CONSTRUCTION. ROBERT A. LUNDELL, New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed Apr. 18, 1918, Serial No. 229,306. Patent No. 1,371,701, dated Mar. 15, 1921. Divided and this application filed Feb. 18, 1921. Serial No. 446,058. 6 Claims. (Cl. 121—120.)

1. A piston and connecting rod construction for engines comprising a piston, a connecting rod pivotally connected to said piston, a portion of the rim of the piston being cut away at one side, to permit a relatively smaller angular adjustment between two piston rods, to



afford provision for assembling a plurality of pistons as a unit in an engine after the connecting rods have been connected to the same crank pin.

1,423,345. SIGNALING METHOD AND APPARATUS. DAVID G. MCCAA, Palo Alto, Calif., assignor of one-half to Cornelius D. Ebret, Philadelphia, Pa. Filed May 20, 1921. Serial No. 471,142. 24 Claims. (Cl. 250—8.)

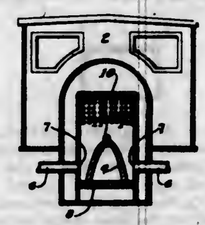


1. The method of receiving high frequency oscillations, which consists in locally generating oscillations of frequency equal to the frequency of the received oscillations, periodically changing the co-action of the received and locally produced oscillations, and subjecting a translating instrument to the resultant of the received and locally produced oscillations.

1,423,346. FIRE BOX. FREDERICK L. MCGAHAN, Los Angeles, Calif.; Viola K. Walker administratrix of said Frederick L. McGahan, deceased, assignor to The Purposed Mind Development Security Association of the World, a Trust Company. Original application filed Jan. 3, 1918, Serial No. 210,146. Patent No. 1,292,399. Divided and this application filed Jan. 17, 1919. Serial No. 271,715. 1 Claim. (Cl. 110—28.)

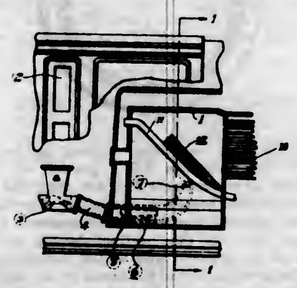
A fire-box for locomotives comprising a casing having end and side walls and grate bars forming the bottom of the fire-box, in combination with a tube sheet forming one end wall of the fire-box, horizontal fire tubes extending from said tube sheet, an elongated deflector having upwardly-converging side walls in the fire-box and positioned above the grate bars, the top surface of said deflector being below the said fire tubes, fuel discharge nozzles extending through opposite sides of the fire box and

below the top of said deflector for delivering the charge of powdered fuel against the sides of said deflector, and



means for creating a draft through the fire box whereby the products of combustion are drawn from the fire-box and through the fire tubes.

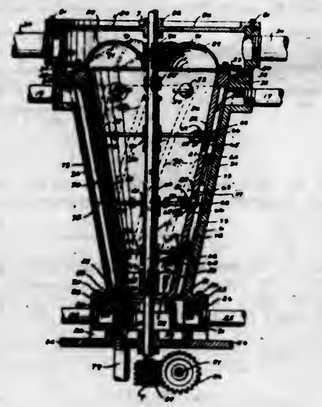
1,423,347. FIRE BOX. FREDERICK L. MCGAHAN, Los Angeles, Calif.; Viola K. Walker administratrix of said Frederick L. McGahan, deceased, assignor to The Purposed Mind Development Security Association of the World, a Trust Company. Original application filed Jan. 3, 1918, Serial No. 210,146. Patent No. 1,292,399, dated Jan. 21, 1919. Divided and this application filed Jan. 17, 1919. Serial No. 271,716. 1 Claim. (Cl. 110—28.)



In a boiler, the combination of a fire-box having end and side walls, substantially horizontal fire tubes leading from one of the end walls, water tubes within the fire-box and extending diagonally from one end wall at a point below said fire tubes upwardly to the other end wall, at a point near its top, refractory material overlying and supported by said water tubes forming a partition dividing the fire box into two chambers communicating at the end of partition remote from the fire tubes only, and fuel discharging nozzles leading into the side walls of the fire-box and in substantial alinement to discharge the fuel delivered there-through toward each other, the point of ignition being at the center of the fire-box below said partition, means for creating a draft through the fire-box whereby the products of combustion traverse the chambers and exit through the said fire tubes.

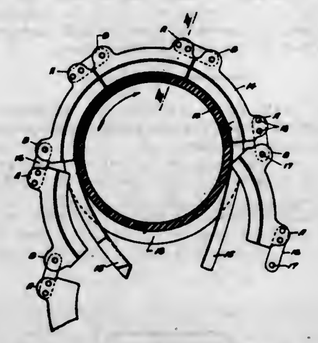
1,423,348. FAN. FREDERICK L. MCGAHAN, Los Angeles, Calif.; Viola K. Walker administratrix of said Frederick L. McGahan, deceased, assignor to The Purposed Mind Development Security Association of the World, a Trust Company. Original application filed Oct. 14, 1918, Serial No. 258,127. Divided and this application filed Dec. 8, 1919. Serial No. 343,354. 2 Claims. (Cl. 230—11.)

1. A fan of the character described, comprising a plurality of blades radiating from the hub, said blades each forming a member having a concaved and a convexed surface terminating in straight edges radiating from the hub and in the arc of a circle, the concaved surface substan-



tially facing in the direction of the axis of the fan, said blades being positioned relative to the hub to further provide an entrance into said concaved surface, which entrance faces in the direction of rotation of the fan.

1,423,349. MOLDING MACHINE. ROBERT MCCLENATHEN, Akron, Ohio, assignor to Kelly-Springfield Tire Company, Akron, Ohio, a Corporation of New Jersey. Filed Nov. 9, 1921. Serial No. 513,986. 9 Claims. (Cl. 18—6.)

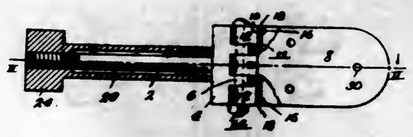


1. A machine of the character described comprising a plurality of spaced apart cylindrical drums of identical diameter having counterpart circumferential grooves in alined relation; associated driving means for revolving all drums at the same speed; and an articulated circulating pressure member in each groove of each drum, said pressure member being adapted to register with said grooves and to be circumferentially advanced simultaneously over the drums.

1,423,350. ADJUSTABLE HINGE. WILLIAM B. MCDONALD, Lawrence, Kans. Filed July 5, 1921. Serial No. 482,262. 2 Claims. (Cl. 16—128.)

1. A hinge consisting of a threaded shank, a transverse head at one end of said shank provided with knuckles, a plate adapted to be secured to a door or gate and provided at one end with knuckles adapted to inter-

lap with the knuckles on said shank, means for pivotally connecting the knuckles on the head and said plate, and a holder embodying internally threaded means into



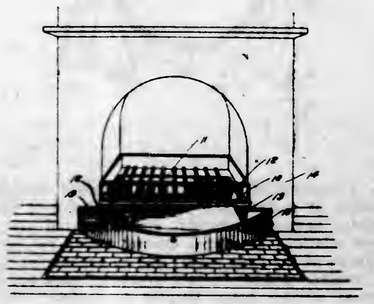
which the threaded shank may be screwed and secured against accidental longitudinal movement in either direction.

1,423,351. AUTOMATIC RAILROAD-SWITCH THROW AND LOCK. FRANK H. MARTIN, Carterville, Ill. Filed July 9, 1921. Serial No. 483,544. 11 Claims. (Cl. 246—340.)



1. Operating means for railroad switch points, comprising a rockable switch stand connected to the points, a tripvee mounted to oscillate on a horizontal axis and connected to the stand, and vehicle-carried means adapted to travel in a path to enter and actuate the tripvees, that portion of the tripvees entered by the vehicle-carried means comprising divergent arms movable independently of each other in the same vertical plane.

1,423,352. ASH PAN. CHARLES F. MILHOLEN, Kannapolis, N. C. Filed Nov. 10, 1920. Serial No. 423,080. 1 Claim. (Cl. 126—243.)



An ash pan for fireplaces having a body portion for disposition below a grate, lateral offsets on and extending a considerable distance from said portion for contact with the jambs of the fireplace to limit insertion of the pan, a front wall extending from the outer extremity of one of said offsets to the other offset, said front wall being deflected forwardly and the pan being unobstructed above its bottom forwardly of a line passing through said offsets so as to catch and retain ashes and sparks falling off the grate beyond the front margin thereof.

1,423,356. SANITARY BELT. DORA MOERER, Stevens Point, Wis. Filed Oct. 31, 1921. Serial No. 511,551. 2 Claims. (Cl. 24—198.)



1. In a device of the character described, a clamp comprising a substantially rectangular loop, one side of the rectangle being formed by the ends of the loop extending toward each other and a sleeve secured to one of the ends and separably receiving the other end, and a second loop of approximately the same shape but slightly smaller than the first loop and having eyes formed in its ends and pivotally receiving the ends of the first loop.

1,423,354. AUTOMOBILE WHEEL RIM. GEORGE THOMAS NICHOLS, Gainesville, Tex., assignor of one-tenth to John P. Walling, Gainesville, Tex. Filed Apr. 7, 1920. Serial No. 371,941. 10 Claims. (Cl. 301—35.)



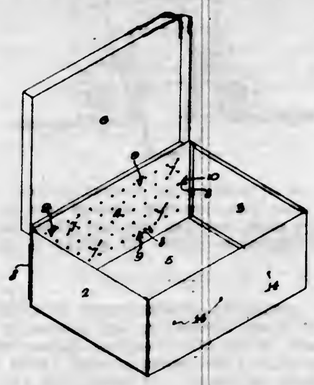
1. A wheel rim comprising a ring having a section thereof of less thickness for a portion of its circumference and transversely of the rim than the remaining section, apertures provided at spaced intervals in said section, an arcuate segment complementary to the ring section, and fitting over the thin section thereof, the combined thickness of the segment and of the section where fitted together being equal to the thickness of the remaining section, said segment being provided with means for engaging with said apertures whereby the segment is held in place upon the ring.

1,423,355. PHOTOGRAPHIC-ROLL-FILM SPOOL. MAGNUS NIELL, Stockholm, Sweden. Filed Sept. 5, 1919. Serial No. 321,932. 3 Claims. (Cl. 242—71.)



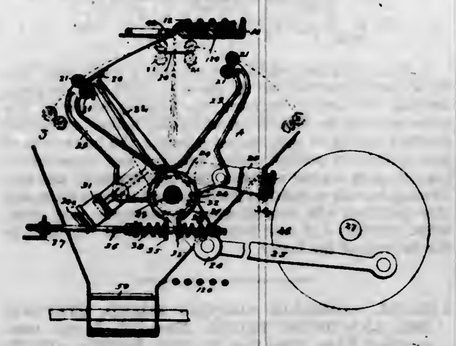
2. A spool of the character described comprising a hollow shaft made in one piece with open ends and of a generally cylindrical exterior and interior with heads extending in planes at substantially right angles to the axis of the tubular shaft and provided with grooves in their outer faces near the margins thereof, said shaft and heads being made in one piece and the shaft being in one piece of sheet metal throughout, said hollow shaft having near both ends thereof portions of the sheet metal thereof pressed inwardly into the space embraced by the shaft and adapted to form projections to cooperate with similar formations on a key insertable into the open ends of the shaft for forming an interlock between key and spool.

1,423,356. HUMIDOR. FERDINAND CARMODY, Philadelphia, Pa., assignor of one-half to Arthur W. Jones, Germantown, Philadelphia, Pa. Filed Nov. 5, 1920. Serial No. 421,853. 1 Claim. (Cl. 131—80.)



The combination of a container having a perforated face and struck up tongues constituting a guideway on said face; a relatively thin holder slidably mounted in the guideway provided by said tongues and consisting of two spaced thicknesses of sheet metal; with a sheet of water absorbent material mounted within the holder, the outer face of the latter being imperforate and the face adjacent the perforated side of the container having openings therein.

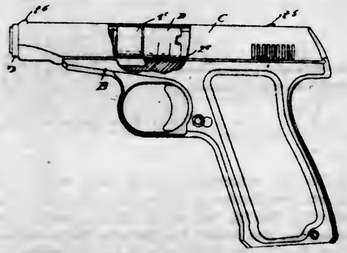
1,423,357. FIBROUS-PLANT-DECORTICATING MACHINE. FRANK O'NEILL, Jr., Philadelphia, Pa. Filed Nov. 28, 1917, Serial No. 204,829. Renewed Feb. 13, 1922. Serial No. 536,342. 21 Claims. (Cl. 19—12.)



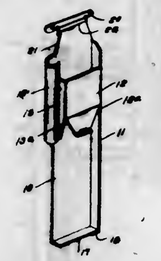
9. In a machine of the class described, the combination of plant suspending means, a decorticating mechanism situated beneath the same and comprising two sets of alternately acting plant engaging members, and means for imparting the movement of one member of a set to the other member in the same direction, whereby both simultaneously move in the same direction.

1,423,358. FIREARM. JOHN D. PEARSON, Jackson, Wyo. Original application filed July 17, 1919, Serial No. 311,689. Divided and this application filed Apr. 2, 1920. Serial No. 370,830. 17 Claims. (Cl. 42—3.)

1. In a firearm in combination, a frame of the firearm provided with a shoulder, a main slide supported by said frame and movable thereon and provided with a barrel-chamber, a barrel in said barrel-chamber rotatable for engaging the rear end of the barrel with said shoulder of the frame, means for supporting the barrel in said barrel chamber independently of said frame of the firearm, and means on the barrel coacting with means on the frame of the firearm for drawing the barrel rearwardly to bring the rear end of the barrel into engagement with said shoulder of the frame by partial rotation of the barrel.

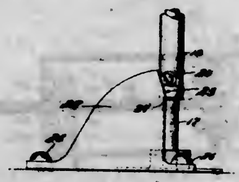


1,423,359. MECHANIC'S RULE AND PENCIL HOLDER. JAMES R. PLATT, Hartford, Ark. Filed Oct. 19, 1920. Serial No. 417,866. 3 Claims. (Cl. 24—13.)



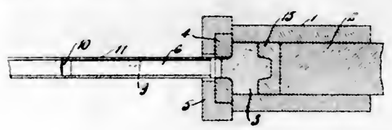
1. A mechanic's rule and pencil holder struck from a blank having a main fold upturned at one edge to form a flange, a transverse tongue extending from the free edge of the flange and provided with an extension lip extending toward the main fold, the portion of the opposite edge of the main fold beyond the plane of said lip being rolled to form a tubular pencil seat of which the open inner side is spanned by said extension lip.

1,423,360. ATTACHMENT FOR PHONOGRAPHS. CARLETON B. PRESTON, Providence, R. I. Filed Apr. 4, 1922. Serial No. 549,597. 3 Claims. (Cl. 274—9.)



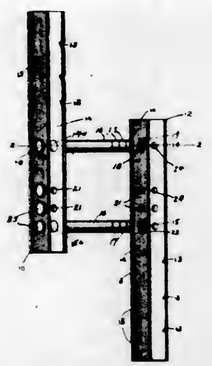
1. In combination with a phonograph including a horn mounted on slide with a vertical shaft, and a reproducer for cooperating with a record, a reproducer positioning attachment comprising a block having a face extending at an angle to the horizontal, and means cooperating with the horn for engaging with said face to rotate the horn to position the reproducer on the record.

1,423,361. DEVICE FOR PRODUCING EXTRUDED SHEET METAL. ALBERT F. ROCKWELL, Bristol, Conn., assignor to Marlin-Rockwell Corporation, New York, N. Y., a Corporation of New York. Filed June 25, 1919. Serial No. 306,546. 9 Claims. (Cl. 29—33.)



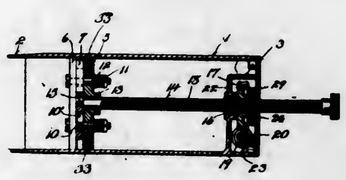
2. A device for reducing metal to sheet form comprising: a die member having a die opening of annular formation, means for forcing the metal to be reduced through said die opening, and means for cleaving the metal to produce a blank having the formation of a longitudinally-split tube.

1,423,362. CATTLE POKE. CHARLIE F. SCHNEIDER, Enid, Okla. Filed Jan. 7, 1921. Serial No. 435,641. 2 Claims. (Cl. 119—138.)



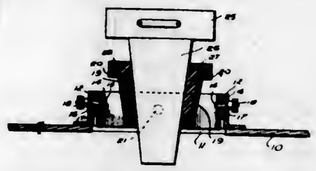
1. A cattle poke having bars, said bars having spaced and connected walls, connecting means extending through the innermost of said walls, and the outermost wall of one of said bars having openings therethrough, and said means being passable through said opening for insertion or removal.

1,423,363. HAIR-CUTTING APPLIANCE. SAMUEL SEVERSON, Valders, Wis. Filed May 18, 1920. Serial No. 382,236. 6 Claims. (Cl. 30—1.)



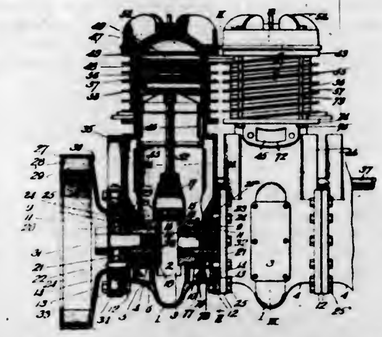
1. In an appliance of the class described, a casing, cutting mechanism therein, means for operating the cutting mechanism, and means simultaneously operable in synchronism with said last named means for withdrawing the cutting mechanism inwardly of the operating end of the casing.

1,423,364. AERIAL MOUNTING FOR CAMERAS. JOSEPH SHARPE, Hampton, Va. Filed Apr. 28, 1921. Serial No. 465,208. 3 Claims. (Cl. 95—12.5.)



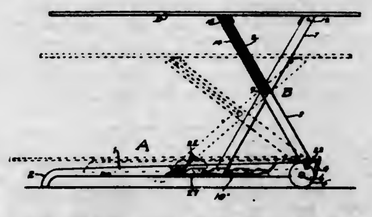
2. In an aerial mounting for cameras, an outer pivoted frame, an inner frame pivotally mounted upon the outer frame, and a shock absorbing tube held within the inner frame and adapted to receive the bellows of an aerial camera.

1,423,365. INTERNAL-COMBUSTION MULTIMOTOR. FRANK W. SMITH, Kansas City, Mo., assignor, by mesne assignments, to Unit Motor Company, Kansas City, Mo., organized under a declaration of trust. Filed July 2, 1919. Serial No. 308,168. 12 Claims. (Cl. 123—195.)



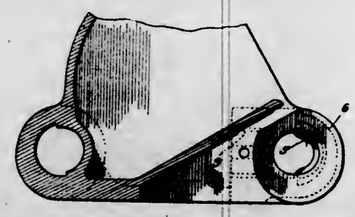
1. In an internal combustion engine, a crank case having a central chamber for the crank and two side chambers flanking the central chamber, for holding lubricant, the inner walls of the side chambers having hollow cylindrical portions axially of said central chamber, the inner ends of said cylindrical portions being enlarged and communicating with said central chamber, bushings fitting in and conforming to said cylindrical portions, and wicks within said side chambers and extending up through the said cylindrical portions and said bushings to conduct lubricant to the interior of the latter.

1,423,366. COMBINED IRONING BOARD, STEPLADDER, AND HOUSE TRUCK. HENRY C. SNOOK, Independence, Kans. Filed Sept. 21, 1920. Serial No. 411,779. 1 Claim. (Cl. 228—21.)



A combined ironing-board, step-ladder and truck, comprising a frame provided with handles and a pair of rollers; a pair of bars, each provided with a series of notches, said bars being secured to the inner faces of the longitudinal members of said frame; a second frame pivotally connected to said first-named frame at points adjacent said rollers, said second frame comprising spaced longitudinal members each having a slot therein at its free end, a third frame pivotally secured to said second frame by a rod passing through said slots, said third frame having at its outer end a transverse bar adapted to seat in pairs of said notches, an ironing-board adapted to be mounted on said second and third frames in various adjusted positions thereof, and a bolt for detachably securing said ironing-board in place, said bolt also serving to hold the longitudinal members of said second and third frames in alinement when adjusted to form a step-ladder.

1,423,367. PIN STOP FOR DREDGE BUCKETS. MARK L. SUMMERS, Hammonton, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Aug. 6, 1921. Serial No. 490,241. 4 Claims. (Cl. 74—43.)

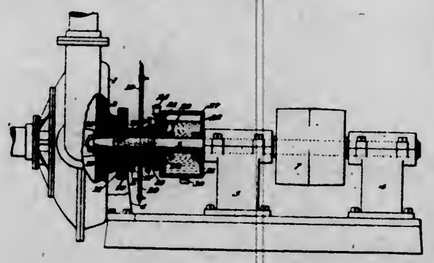


1. A dredge bucket having a pin opening and a lug-seat, a pin for said opening and having a lug adapted to said lug-seat, and means cast integral with the bucket to prevent endwise displacement of the pin and effective to confine the lug to its seat.

1,423,368. SOUND-BOX DIAPHRAGM. HERBERT L. TIFFT, Willimantic, Conn. Filed Mar. 31, 1921. Serial No. 457,506. 6 Claims. (Cl. 181—32.)

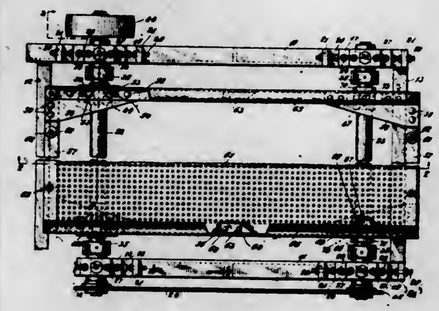
1. A diaphragm for the purpose indicated consisting of a fibrous base saturated with a solution of gutta percha and having an exterior metallic coating.

1,423,369. CENTRIFUGAL PUMP. WILLIAM FRANCIS TRENARY, Atlanta, Ga. Filed Dec. 30, 1918. Serial No. 268,816. 2 Claims. (Cl. 286—9.)



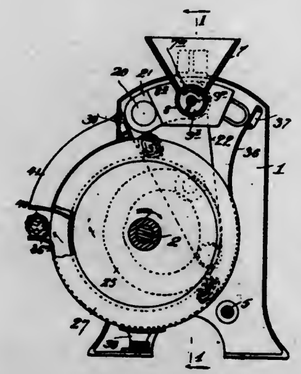
1. A shaft bearing, having a stuffing box, a divided bushing adapted to embrace the shaft, means to adjust the divided bushing to the shaft to compensate for wear on the shaft, means to supply liquid to the shaft within the bushing, and external circumferential grooves on the bushing members in communication with the liquid supply means to drain the liquid and solid matter from the bushing.

1,423,370. REVOLVING SHAKER SCREEN. JULIUS C. UHLARIK, Valhalla, N. Y., assignor to Robins Conveying Belt Co., a Corporation of New Jersey. Filed June 16, 1919, Serial No. 304,619. Renewed Dec. 7, 1921. Serial No. 520,762. 12 Claims. (Cl. 83—56.)



1. A screen frame, means to move it in a circular orbit, consisting of parallel shafts provided with eccentrics, adjustable counterbalance means at the eccentrics, a bearing for one of the eccentrics having freedom of motion longitudinally of the frame, and a screen plate mounted loosely upon the frame to cause the plate, due to its inertia, to travel in an orbit of its own, alternately lagging behind the orbit of the frame and jarring upon it when the orbits again coincide.

1,423,371. DOUGH-DIVIDING MACHINE. THOMAS S. VIRROW, Jersey City, N. J. Filed July 26, 1921. Serial No. 487,751. 18 Claims. (Cl. 107—15.)

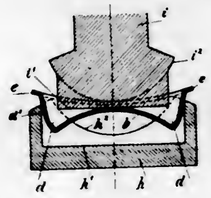


1. A dough dividing machine comprising a reciprocative and rotative plunger provided with means to feed dough, a receiver for the dough, and means to discharge dough from the receiver.

1,423,372. WATER-TUBE BOILER. KARL VÖRSMANN, Brunn, Austria. Filed July 5, 1917. Serial No. 178,724. 3 Claims. (Cl. 113—51.)

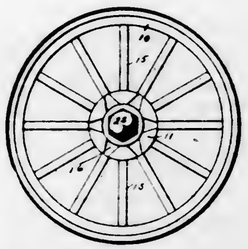
1. A process for the manufacture of headers for steam boilers, comprising shaping a blank between a first set of

dies to have an upwardly curved bottom and surrounding side and end walls provided with outstanding flanges, and



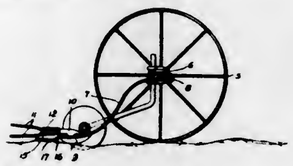
subsequently flattening the bottom and thereby drawing in the top portions of the end walls towards each other between another set of dies.

1,423,373. METAL WHEEL. JAMES H. WAGENHORST, Jackson, Mich. Filed Aug. 20, 1919. Serial No. 318,812. 4 Claims. (Cl. 301—58.)



1. A wheel comprising a hub, a sheet metal felly and sheet metal spokes connecting said felly and hub, the inner ends of said spokes being enlarged, the hub having flanges at its opposite ends provided with recesses adapted to receive the enlarged spoke end radially therein.

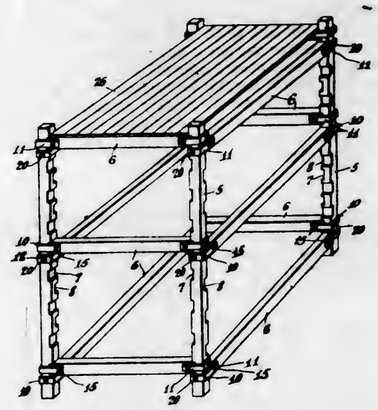
1,423,374. BEET TOPPER. SYLVESTER C. WARNER, McClure, Ohio. Filed Jan. 11, 1921. Serial No. 436,586. 8 Claims. (Cl. 55—107.)



1. A topping attachment for vegetable digging machines comprising a resilient arm rigidly attached to the frame of the machine and extending downwardly and rearwardly thereof, a ground-engaging shoe carried by said resilient arm, and a knife carried by said shoe, said knife being mounted to the rear thereof.

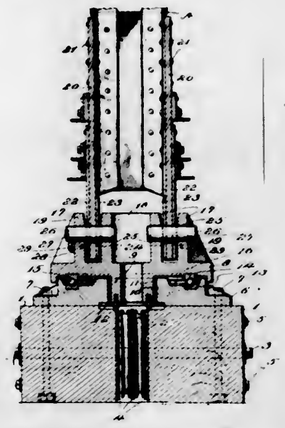
3. A top-cutting mechanism for vegetable digging machines, comprising a resilient arm attached to the frame of the machine and projecting downwardly and rearwardly therefrom, ground-engaging means carried by the rear end of said arm, a bracket carried by the rear end of said arm, a knife carried by the bracket, means for securing the knife to the bracket, and a plurality of top-directing fingers carried by the bracket, said top-directing fingers being secured to the bracket by the knife-securing means.

1,423,375. BUILDING CONSTRUCTION. FREDERICK WATT, Chicago, Ill., assignor of one-third to Thomas J. Pembor, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,160. 4 Claims. (Cl. 304—2.)



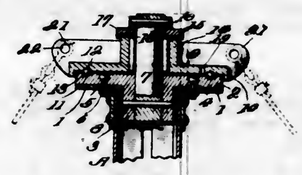
1. A building structure comprising a plurality of upright posts, each post having a series of corresponding transverse grooves in two adjacent sides thereof; a plurality of beams extending between the posts to form a self-supporting polygonal structure and having their ends seated in the grooves; and detachable screw clamps encompassing a post and the sides of a beam for securing an end of each beam in a groove of the corresponding post.

1,423,376. DERRICK. GEORGE F. WATTS, Boston, Mass. Filed July 13, 1921. Serial No. 484,458. 6 Claims. (Cl. 212—70.)



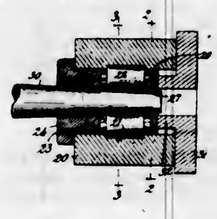
1. The combination of a foot-block consisting of a base plate and a mast step, anti-friction bearings interposed between the base plate and mast step, and a mast pivotally connected to the mast step and centrally located thereon, whereby the pressure exerted on the foot block by the mast regardless of its angle is equally distributed on the base plate by said anti-friction means.

1,423,377. MAST TOP. GEORGE F. WATTS, Boston, Mass. Filed July 13, 1921. Serial No. 484,459. 4 Claims. (Cl. 212—70.)



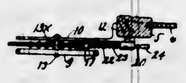
1. In a mast top, the combination with a derrick mast, a base plate mounted thereon and provided with a gudgeon pin, a spider plate mounted upon the base plate and surrounding the gudgeon pin, and anti-friction means interposed between the spider plate and gudgeon pin and between the spider plate and base plate.

1,423,378. METHOD AND APPARATUS FOR FINISHING CURVED SURFACES. HAROLD WESSON, Springfield, Mass. Filed Mar. 10, 1921. Serial No. 451,208. 6 Claims. (Cl. 29—90.)



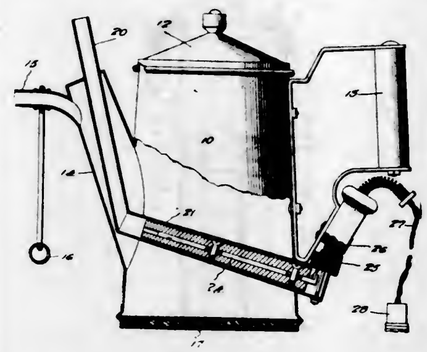
1. The method of imparting, to an article of suitable rigid material, a finished surface of revolution of a very high degree of smoothness and extreme accuracy of dimensions, which consists in first machining said surface, by any appropriate means, to a very close approximation of the desired finished form and then subjecting the same to a treatment by rollers of relatively small curvature having hard polished surfaces, said rollers being forcibly pressed against said surface while being rolled along the same, the rolling and pressing being continued until said surface has been highly polished and compressed with precision to a predetermined dimension, and being discontinued when said dimension has been attained.

1,423,379. AUTOMOBILE DIRECTION SIGNAL. OSCAR M. WEST, St. Paul, Minn. Filed Aug. 29, 1921. Serial No. 496,500. 2 Claims. (Cl. 116—40.)



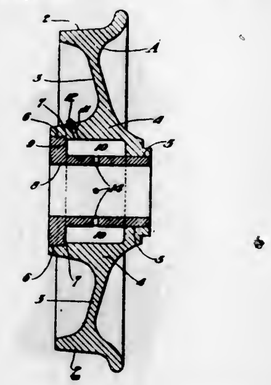
1. In a device of the class described, a vertically disposed outwardly projecting housing and means for securing same to a stationary part of a vehicle near the driver thereof, a foldable and horizontally extensible signal arm normally contained in the housing and means near the driver operatively connected with the signal arm to extend it out horizontally from the housing, said extensible signal arm being composed of cross bars pivotally connected at their crossings and pivoted together at their ends in the manner of lazy tongs, the outer members terminating in triangular points forming an arrow head when the arm is extended; the inner members of the arm forming beam levers mounted to tilt and slide in the housing, a cross head slidable in the housing and pivoted to the inner ends of said beam lever, a horizontally disposed rod fixed in the cross head, a bearing on the housing for the rod to slide in, a compression coil spring encircling the rod between the bearing and the cross head and tending at all times to push the cross head and the rod outward and thereby hold the extensible arm normally in folded position and means for imparting endwise movement of the rod against the pressure of the spring, said means comprising a guided cable having one end connected to the rod and the other end connected to an operating lever mounted near the driver of the car.

1,423,380. ELECTRICALLY-HEATED APPARATUS. ROBERT F. WHERLAND, Stanley, N. Dak. Filed Dec. 13, 1920. Serial No. 430,225. 3 Claims. (Cl. 219—44.)



1. A device of the class described, comprising a receptacle, a duct extending transversely therethrough, a discharge spout, a tube extending through said spout and having connection with the aforesaid duct, and an electrically heated element within said duct.

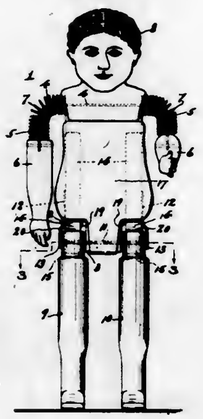
1,423,381. CAR WHEEL. THOMAS WALLEY WILLIAMS, Pittsburgh, Pa. Filed May 12, 1922. Serial No. 560,420. 1 Claim. (Cl. 295—35.)



In a forged steel car wheel, a hub portion counterbored for the greater portion of its length and having a smaller bored aperture in the bottom wall of said counterbore, said counterbored portion of said hub having an enlarged annular portion at its open end forming a shoulder, and a bushing of a diameter that will fit snugly within said bored

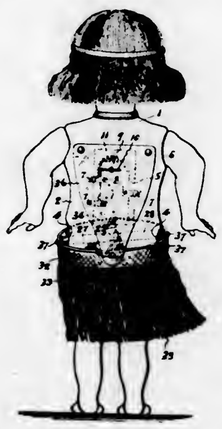
aperture fitted within said counterbore and having one end projecting into said bored aperture, an annular flange on the opposite end of said bushing adapted to snugly fit within the enlarged annular portion of said counterbore and abut said shoulder thereby forming a closed annular lubricant retaining recess, said bushing being provided with perforations to permit the passage of lubricant therethrough.

1,423,382. WALKING DOLL. DAVID ZAIDEN, East Orange, N. J. Filed Dec. 14, 1920. Serial No. 430,675. 6 Claims. (Cl. 46—40.)



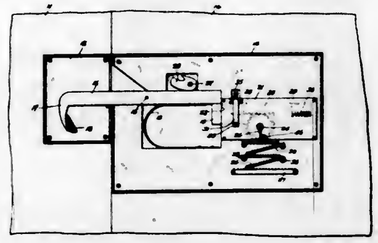
1. In a toy of the kind described, a body portion, leg portions pivotally connected with said body portion, and flat leaf springs attached to said body portion, the free ends of said springs respectively engaging the rear sides of said respective leg portions to hold the latter in normal longitudinal alinement with said body portion yet yieldable to rearward swinging movement.

1,423,383. HULA DOLL. DAVID ZAIDEN, East Orange, N. J. Filed May 9, 1921. Serial No. 467,805. 5 Claims. (Cl. 46—40.)



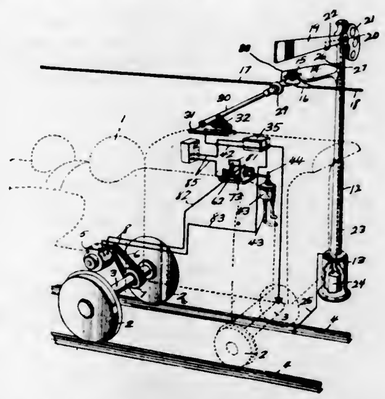
1. In a doll of the kind described, a body having a chambered interior and provided in its lower trunk portion with laterally opposite side openings, a spring motor mechanism supported within said chambered interior, means oscillated by said spring motor mechanism having portions extending oppositely through said side openings, and a skirt member attached to said latter means adapted to be rhythmically swayed from side to side by the operation thereof.

1,423,384. COMBINATION LOCK. CHARLES J. ANDERSON and WILLIAM H. VAN DYKE, Corning, N. Y. Filed Oct. 20, 1921. Serial No. 509,116. 8 Claims. (Cl. 70—18.)



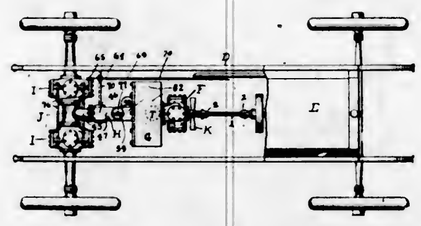
1. A combination lock including a movable bolt, means for actuating the bolt, a plurality of rack bars pivoted to swing at their alternate ends, and a shaft carrying a gear pinion consecutively engageable with said rack bars, said shaft operative to engage the bolt moving means when the pinion arrives at a predetermined position on the rack bars.

1,423,385. AUTOMATIC TRAIN-CONTROL DEVICE. JOHN P. ANGUS, Tonawanda, N. Y. Filed Mar. 20, 1919. Serial No. 283,792. 8 Claims. (Cl. 246—68.)



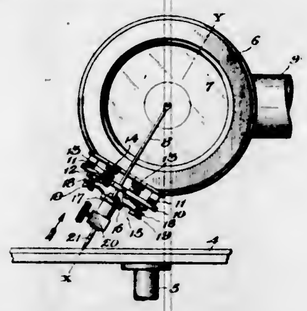
6. In a train control mechanism, the combination with the air brake lever and valve, of a frame joined with the air brake lever and including uper and lower racks, a gear shaft having a gear adapted to engage the upper rack, motor connections for rotating the gear to drive the frame forwardly, a guide on the frame for the gear shaft, a dielectric support on the frame having a current strip including upper and lower portions ending in insulated blocks, a contact arm adapted to engage the upper portions, a motor circuit including a source of energy and a pair of contacts, a switch arm adapted to engage the contacts to close the motor circuit, cam devices for elevating the frame to simultaneously cause the engagement of the lower rack with the gear and the lower strip portion with the contact and the end of the forward thrust of the frame, and a cam guide for the end of the gear shaft.

1,423,386. FLUID POWER-TRANSMISSION APPARATUS. JOSEPH H. BAIR, Philadelphia, Pa., assignor of eighteen-sixtieths to James O. David, Philadelphia, Pa., fifteen-sixtieths to Hervey S. Knight, Chicago, Ill., and ten-sixtieths to Lewis H. Taylor, Jr., Philadelphia, Pa. Filed July 1, 1916. Serial No. 107,211. 11 Claims. (Cl. 60—53.)



1. In a fluid driving or driven apparatus, the combination of a shaft, an eccentric mounted on said shaft, a piston reciprocated by said eccentric, a housing for said piston, means for varying the eccentricity of the eccentric mounted coaxially with the shaft; said shaft having a bore which receives the varying means, and a transverse sector face intersecting said bore; said eccentric being fitted to said bearing face and constructed with a toothed rack presented to the bore of the shaft; and said varying means including a pinion within the bore and meshing with said rack.

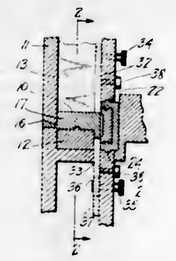
1,423,387. PHONOGRAPHIC SOUND BOX. LOUIS JOHN BERGDOLL, now by judicial change of name Louis John Bergson, Philadelphia, Pa. Filed Dec. 11, 1916. Serial No. 136,218. 3 Claims. (Cl. 274—35.)



1. In combination with a sound-box having a diaphragm and a stylus-bar connected therewith, a pivotally-mounted member connected with said bar arranged to impart vibration thereto in a plane substantially perpendicular to said diaphragm in response to properties in a record pertaining to recorded sound, a holder for a record-engaging part pivotally mounted on said member arranged to vibrate only in a plane substantially parallel with said diaphragm in response to other record properties, and a spring counteracting movement of said holder in both directions.

1,423,388. LINE-SLUG-CASTING MACHINE. SUNKER AOG. BISEY, New York, N. Y. Filed Sept. 4, 1920. Serial No. 408,298. 23 Claims. (Cl. 199—75.)

1. The process of producing a continuous typographical line slug of indefinite length with a mold of definite and less length which comprises repeatedly casting units in the mold in contact with preceding units and against successive matrices of a composed line of matrices, ejecting the



units from the mold as they are cast and automatically advancing the composed line of matrices through the engagement of the cast sections therewith.

1,423,389. PAINT VEHICLE. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Apr. 16, 1921. Serial No. 461,961. 6 Claims. (Cl. 134—56.)

6. A paint-vehicle carrying cocoanut oil; tung oil; and a mineral oil.

1,423,390. PAINT COMPOSITION. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Oct. 5, 1921. Serial No. 505,624. 10 Claims. (Cl. 134—39.)

10. A paint-composition, comprising a fatty oil; a pigment; cocoanut oil; tung oil; and a mineral oil.

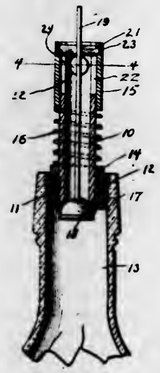
1,423,391. PIGMENT COMPOSITION FOR PAINTS. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Oct. 5, 1921. Serial No. 505,625. 8 Claims. (Cl. 134—58.)

8. A mixture, in paste form, of cocoanut oil; tung oil; and an anhydrous pigment.

1,423,392. OIL. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Oct. 5, 1921. Serial No. 505,626. 2 Claims. (Cl. 134—56.)

2. A mixture of tung oil and cocoanut oil.

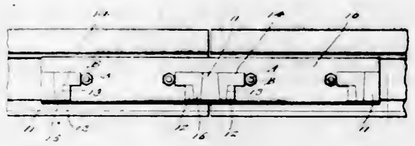
1,423,393. BATTERY FILLER. ARVEL A. BOSTON, New Martinsville, W. Va. Filed Sept. 8, 1919. Serial No. 322,255. 1 Claim. (Cl. 215—74.)



In combination with a container having a discharge mouth and a stopper therefor having a threaded aperture,

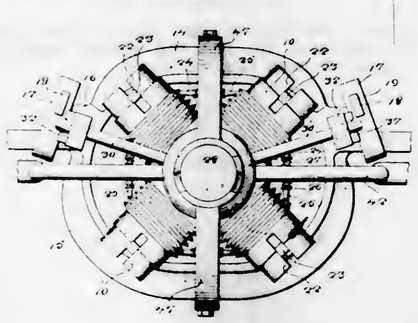
of a casing having escape ports in its outer end its inner end threaded and provided with an annular flange surrounding said casing adjacent the threaded portion, a curved seat formed within the threaded end, a semi-spherical valve normally engaging the seat, a stem oblong shape in cross section carried by said valve and passing through and beyond the outer end of said casing, a transversely disposed pin secured through the stem adjacent its outer end and adapted to reciprocate within oppositely disposed longitudinal slots formed in the outer end of the casing, a sleeve surrounding the casing and normally positioned over the escape ports, said sleeve being provided with grooves disposed upon diametrically opposite sides of its interior, and is adapted to receive the ends of the pin, and a coil spring engaging the sleeve and the annular flange for the purpose specified.

1,423,394. ANGLE BAR AND NUT LOCK. JACK JAMES BOWMAN, Portland, Oreg. Filed Nov. 29, 1921. Serial No. 518,605. 3 Claims. (Cl. 238—262.)



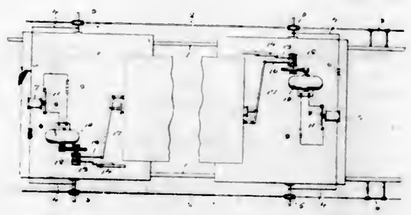
1. An angle bar formed at one end with an inclined flange and formed with a lug arranged in spaced relation to the flange, and a plate disposed against the bar and having an extension fitting between the flange and the lug, one end of the plate being engageable against a nut carried by a bolt passing through the bar.

1,423,395. MOTOR. EDWARD W. BROWN, Sparks, Okla., assignor, by direct and mesne assignments, of nine-tenths to The Brown Motor Company, Sparks, Okla., a Corporation of Oklahoma, and one-tenth to Rufus P. Roope, Chandler, Okla. Filed May 3, 1921. Serial No. 466,473. 8 Claims. (Cl. 123—44.)



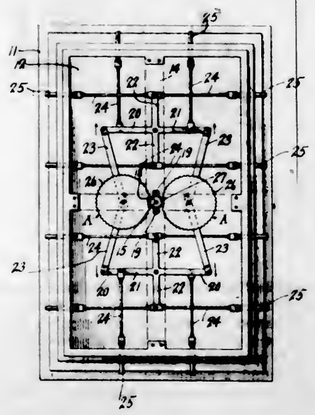
1. A motor comprising a track of irregular formation, a shaft arranged centrally of said track, a hub on said shaft, cylinders radiating from said hub, a piston sliding in each cylinder and continuously contacting said track, each cylinder having a port at each side thereof, and said ports being simultaneously utilized as inlet or outlets for the cylinder, and stationary valves mounted on the shaft and arranged in face to face contact with the adjacent end of the hub for controlling said ports.

1,423,396. AUTOMATIC TRAIN-STOPPING MEANS. GEORGE CHROMY, Stewart, Minn.; Joseph Chromy, administrator of said George Chromy, deceased. Filed Aug. 19, 1918. Serial No. 250,567. 1 Claim. (Cl. 246—66.)



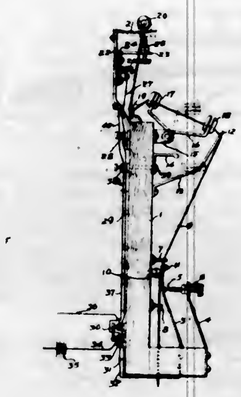
In the means described for stopping a train, the combination of a railway track, electric conductors arranged alongside the track rails, and a train equipment comprising a normally interrupted circuit in which the said conductors and a circuit closer are interposed; said circuit being adapted to be completed when a similarly equipped train running in an opposite direction is in dangerous proximity on the track, a source of electric energy and an electric motor arranged in a normally interrupted circuit including said circuit closer, whereby said motor circuit will be completed by the circuit closer on the closing of the first-named circuit, and means operable by the electric motor for manipulating an engineer's valve and a throttle lever to stop the train, and including a single winding shaft and cables directly connecting said shaft with the engineer's valve and the throttle lever.

1,423,397. LOCK. WILLIAM O. COLEMAN, Indianapolis, Ind. Filed July 9, 1921. Serial No. 483,582. 4 Claims. (Cl. 70—53.)



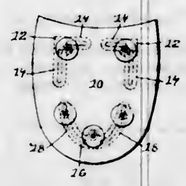
1. A combination lock mechanism including a plurality of locking bolts connected in groups, each group being movable independently of the other groups, spaced pairs of gears, a connection between each gear and one group of said bolts, a controlling element mounted for both sliding and rotary movements, and a pinion carried by said element and adapted to mesh with each gear, whereby said groups of bolts are singly controlled.

1,423,398. STOP MOTION. EDWARD FRANCIS CONNELL and JOHN FRANCIS CONNELL, Florence, Mass. Filed Jan. 4, 1921. Serial No. 434,977. 4 Claims. (Cl. 66—7.)



1. In an electrically operated stop motion, the combination of a standard, a contact leaf spring carried by the standard, said spring being secured at one end and adapted to be flexed by the pressure of a thread exerted on the free end thereof, a member also carried by the standard and arranged adjacent the spring, the spring and member extending in the same direction approximately parallel with each other, a contact screw carried by the member and adapted to engage the spring at a point intermediate of its ends when said spring is flexed, and an electric circuit connected with the spring and member.

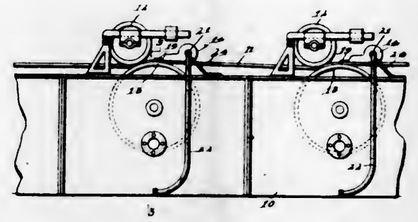
1,423,399. RUBBER HEEL. ALIX COSTANTINO, Providence, R. I. Filed Feb. 18, 1921. Serial No. 446,100. 1 Claim. (Cl. 36—35.)



A rubber heel, having a plurality of spring fastening means for securing the rubber heel under spring tension to the heel of a shoe, boot or the like, said spring fastening means consisting of L shaped spring fastening members embedded in and adjacent the corners of the rubber heel and having a nail hole, curved spring arms and slots in the spring arms through which the rubber unites, and a U shaped spring fastening member embedded in and adjacent the rear end of the rubber heel and having a nail hole, curved spring arms and slots in the spring arms through which the rubber unites, all for the purpose as described.

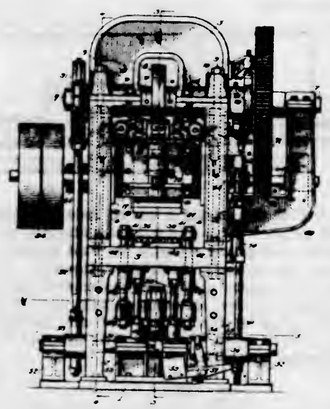
1,423,400. ATTACHMENT FOR PAPER-MAKING MACHINES. CHRISTOPHER E. CRAMER, Hackensack, N. J. Filed Jan. 22, 1919. Serial No. 272,495. 1 Claim. (Cl. 92—49.)

A suction slice comprising a substantially cylindrical body portion having a relatively narrow opening extending throughout its length, a tapered entrance chamber formed of side walls and top and bottom walls, the said entrance chamber being disposed tangentially with respect to the cylindrical body member and communicating with



the latter at its larger end and a forwardly projecting scraper apron formed by an extension of the lower wall of the entrance chamber and extending through the restricted mouth of said entrance chamber.

1,423,401. POWER PRESS FOR TILE, MOSAICS, AND THE LIKE. DAVID CROSSLEY, Trenton, N. J. Filed July 29, 1920. Serial No. 399,841. 20 Claims. (Cl. 25—56.)



1. A power press of the class described including in combination a forming device composed of a series of stationary members, a die case surrounding said members, means for raising said die case, said means including a clutch and counterbalanced treadle, means including a shaft and plunger for compressing the material to form the tile and means for lowering said die case for ejecting the compressed material, said last mentioned means being operated from the said shaft independently of the said raising means.

1,423,402. PROTECTOR. MARY G. DARLING, Washington, D. C. Filed Apr. 18, 1922. Serial No. 554,559. 1 Claim. (Cl. 24—155.)

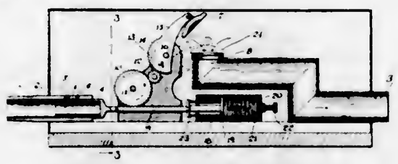
As a new article of manufacture, comprising a single piece of spring material bent upon itself to form a pin point receiving body portion and having its lower end closed, upwardly reaching spring clip portions extend-

ing from the closed end; said upwardly reaching portions being crimped at equidistant points throughout their



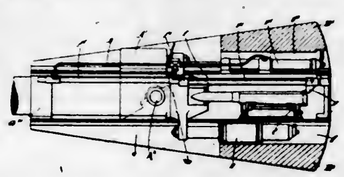
lengths to form gripping surfaces, and a rolled edge formed at the upper end of the portions; the material of the article being initially magnetized.

1,423,403. PRESSURE-CONTROLLED CUT-OFF. MELVIN L. DAVIS and GLEN W. COOK, Enid, Okla., assignors of one-third to Herbert H. Champlin, Enid, Okla. Filed Feb. 6, 1920. Serial No. 356,776. 13 Claims. (Cl. 67—115.)



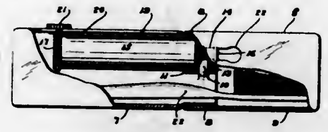
1. A cut-off, comprising a ported fluid inlet pipe, with a ported primary valve in normal registration therewith; tension-operated means opposing the fluid pressure against said valve but normally neutralized thereby, a fluid outlet pipe, and means operatively associated with a part of the primary valve, including a main valve for closing the outlet pipe by the influence of said tension means on the primary valve when the fluid pressure reaches a predetermined low point.

1,423,404. HIGH-ANGLE ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Oct. 26, 1921. Serial No. 510,655. 3 Claims. (Cl. 89—37.)



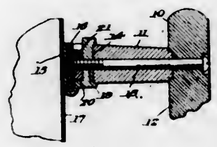
1. In high angle ordnance, the combination with the gun cradle, of two members extending rearwardly from said cradle, one member being arranged above and the other below the axis of the gun cradle and each of said members being weighted at its rear part.

1,423,405. COMBINATION TOOTHBRUSH AND DENTIFRICE HOLDER. LOUIS DAYEH, Philadelphia, Pa. Filed Feb. 14, 1922. Serial No. 536,599. 2 Claims. (Cl. 132—84.)



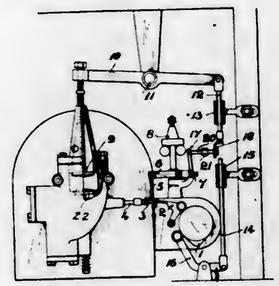
2. A tooth paste holder comprising a substantially rectangular casing having a reduced neck portion, a closure for said neck portion having an inwardly turned tongue projecting thereinto, a slide fitting in a loop in the rectangular casing and having an angular portion provided, and a locking clasp pivoted on the said angular portion for gripping the neck of the tube of tooth paste.

1,423,406. DETACHABLE HANDLE. BERT N. DONLEY, Muscatine, Iowa. Filed July 9, 1921. Serial No. 483,636. 2 Claims. (Cl. 16—114.)



1. The combination with a receptacle, of a handle, an engaging member carried by the handle, said member being provided with a socket to receive the handle, a tongue included in the engaging member, a screw carried by the handle and extending through said member, a seat provided in the member for the reception of a nut, to engage the bolt and hold the engaging member secured to the handle and a loop carried by the receptacle for engagement by the tongue.

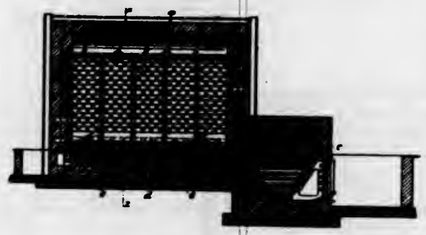
1,423,407. INTERNAL-COMBUSTION ENGINE. PERCY DOUGALL, Kidderminster, England. Filed Aug. 27, 1920. Serial No. 406,267. 2 Claims. (Cl. 123—112.)



1. In an internal combustion engine, the combination with the cylinder, of separate air and gas intake valves, a governor controlling the gas valve so as to cause the latter to remain closed at excessive speed, an air-release valve in the cylinder, a cam for operating said air-release valve, and a displaceable intermediate member adapted to complete the operative connection between the cam and air-release valve, said displaceable member

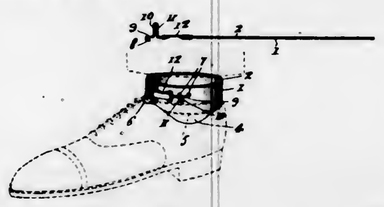
being connected to the governor so as automatically to break the connection between the cam and air valve when the gas valve is operative and to establish the said connection when the gas valve is inoperative.

1,423,408. GAS-FIRED POTTERY KILN. ARTHUR McDOUGALL DUCKHAM, London, England. Filed Dec. 29, 1921. Serial No. 525,723. 7 Claims. (Cl. 25—145.)



1. A gas fired rectangular kiln for burning argillaceous ware, a gas bag therein constructed independently of the brickwork of the kiln proper, said gas bag dividing the kiln into a plurality of compartments, said bag having constricted apertures in the sides and top whereby heating gases escaping from the bag are evenly distributed and traverse the ware contained in the kiln between the bag and the walls of the kiln, the bulk of the gas passing through the ware in a horizontal direction.

1,423,409. HOSE PROTECTOR. VICTOR H. FAIRLESS, Trenton, Tenn. Filed May 4, 1921. Serial No. 466,707. 1 Claim. (Cl. 36—70.)



A hose protector, comprising a flat flexible band adapted to be placed about the ankle above a shoe top and adapted to overlap at its ends for fitting ankles of different thicknesses, said band having spaced depending lugs adapted to lie at the sides of the ankle and project into the shoe top and having a depending tab near one end for engagement beneath the tongue of the shoe, a flat tape carried on one end of the band and adapted to lie flat across the overlapping ends of the band to hold the same together, and a hook on the free end of the tape, said band having a longitudinal row of openings near its other end for selectively receiving the hook therein, whereby the hook may be adjustably secured to said other end of the band for closing the same in different sizes and at all times providing a substantially flat outer surface for the band, substantially as described.

1,423,410. CLOCK ESCAPEMENT. WILLIAM J. FAWVER, Patesville, Ky. Filed Dec. 31, 1921. Serial No. 526,312. 2 Claims. (Cl. 58—134.)

1. In combination with a pendulum, an escapement wheel and a verge associated with the latter, a clutch mechanism between the pendulum rod and the verge comprising a drum, a split ring frictionally engaging about the drum and connected with the verge, a pair of levers connected with the split ring at opposite sides of the split therein and having their inner edges formed with normally engaging projections, the lower ends of said levers being formed with outward projections, a pair of banking pins mounted upon the clock frame and carrying studs engageable by said levers, said pendulum rod being associated with the verge and verge wire.



1,423,411. LIQUID-LEVEL INDICATOR. STANLEY W. FINCH, Washington, D. C. Filed Dec. 31, 1921. Serial No. 526,241. 3 Claims. (Cl. 73—82.)

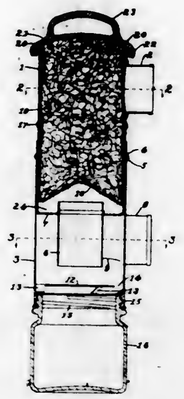


1. In combination with an oil reservoir of an internal combustion engine; a vented chamber in communication with the lower portion thereof; a wire bent to substantially U-form, the short member which connects the arms thereof being journaled in the casing at one side thereof; a float in the chamber carried by the inner arm of said U-shaped member; and stops located upon the face of the casing adapted to coact with the other arm to limit the movement of the U-shaped member and to thereby prevent the float from contacting the walls of the chamber.

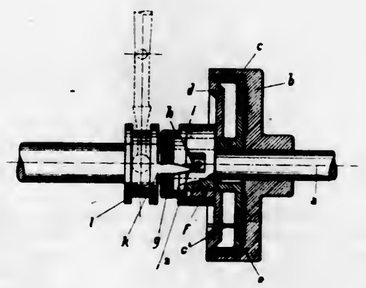
1,423,412. AIR CLEANER. HERMAN H. GARNER, Pomona, Calif. Filed Sept. 20, 1918. Serial No. 254,923. 9 Claims. (Cl. 183—67.)

1. A cleaner for catching and holding the dust carried in the air used in an internal combustion engine comprising a casing; an inlet through which air is taken into

said casing, said inlet being so formed as to give the air as it enters the casing a rapidly whirling movement; an outlet through which said air is taken from said casing; and a body of oil saturated fibrous material in said casing between said inlet and outlet, said fibrous material having a recess formed in the bottom thereof and extending upwardly into the body of said material.

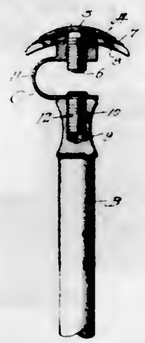


1,423,413. FRICTION CLUTCH. JULES HENRI GIAUQUE and CHARLES HAESLER, Le Locle, Switzerland. Filed June 14, 1920. Serial No. 388,873. 4 Claims. (Cl. 192—78.)



2. A friction clutch comprising a shaft, a drum rotatable thereon, a pair of discs, a friction element adapted to be operated in the relative movement of the discs to engage the drum, one of said discs being mounted on the shaft against rotation, a pair of rings, one ring being carried by each disc, means for adjusting and preventing axial movement in one direction of the ring on the first mentioned disc, the rings being formed to move axially in relative rotation and a separate means for producing relative rotation of the rings.

1,423,414. SAFETY RAZOR. OSCAR L. GLASER, Oak Park, Ill., assignor of one-half to John F. Blything, Oak Park, Ill. Filed July 10, 1919. Serial No. 309,880. 2 Claims. (Cl. 30—12.)



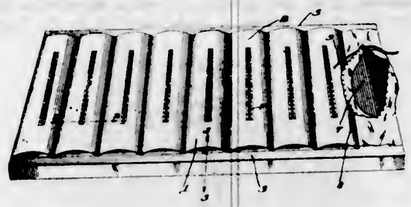
1. An attachment for a safety razor which has a relatively rigid blade holder and a relatively rigid handle, comprising a substantially U shaped spring member one leg of which is attachable against the blade holder to carry the same and the other leg of which is attachable against the end of the handle.

1,423,415. HOLDER. MATTHEW GLASS, Philadelphia, Pa. Filed Oct. 8, 1921. Serial No. 506,425. 2 Claims. (Cl. 15—14.)



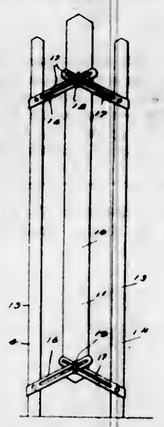
1. A device of the class described comprising a stationary jaw provided with spaced guide eyes and a shank disposed in a plane at right angles to said jaw and provided with a guide loop, a handle extending from said shank, a movable jaw parallel to said stationary jaw, parallel arms extending at right angles from said movable jaw and extending through the guide eyes of said stationary jaw, a shank connected to said parallel arms disposed in a plane parallel with said arms and extending through the guide loop of the first mentioned shank, and a handle extending from the last mentioned shank and disposed in a plane parallel to the handle aforesaid.

1,423,416. MATTRESS. ARTHUR B. GOMES, Peoria, Ill. Filed Oct. 15, 1921. Serial No. 507,977. 3 Claims. (Cl. 5—13.)



1. As a new article of manufacture, a mattress composed of an outer casing divided into a plurality of transverse sections and a pair of longitudinal sections along its edges, and individual fillers inserted in each of said sections.

1,423,417. DISPLAY RACK. JOHN F. GORMAN, Spokane, Wash. Filed Nov. 14, 1921. Serial No. 514,960. 2 Claims. (Cl. 211—14.)



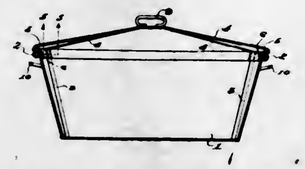
1. A display rack comprising an inner section, outer sections located upon opposite sides of the inner section, each of said sections including vertically disposed end members and horizontally disposed bars connecting the end members and relatively slidable means connecting the said end members of each section, whereby the sections may be spaced apart and the inner section elevated, or the said sections arranged in contact and the inner section lowered.

1,423,418. DRAIN PLUG. WILLIAM GRIKSCHEIT, Detroit, Mich., assignor of one-half to Thomas B. Mothersill, Windsor, Ontario, Canada. Filed Oct. 27, 1919. Serial No. 333,708. 4 Claims. (Cl. 251—8.)



3. A drain plug comprising two members, one having an axial passage therethrough with an externally threaded nipple at one end thereof and a counterbore at the opposite end internally threaded, forming an annular shoulder or valve seat at the inner end of said counterbore, the other member having a portion externally threaded to engage said threaded counterbore, being provided with an imperforate portion at its inner end for engaging said valve seat and having an axial passage from its outer end to said imperforate portion with a right angled port communicating with said counterbore and hexagonal surfaces upon each of said members for adjusting them.

1,423,419. BASKET. CHARLES HALASKA, Milwaukee, Wis. Filed Jan. 15, 1921. Serial No. 437,470. 1 Claim. (Cl. 220—72.)



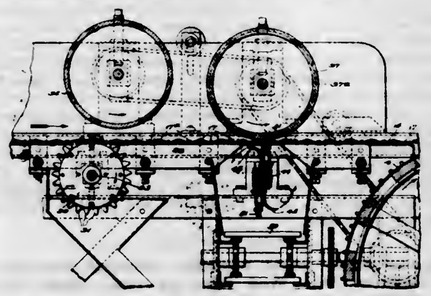
As a new article of manufacture, an oval basket constructed of sheet metal and having outstruck reinforcing ribs at each end equidistant of the center and extending through the full height of the basket, a cover and outstruck ribs radiating from the axis of said cover and adapted to register with the ribs on said basket.

1,423,420. PLATE ENVELOPE. ALFRED P. HANTSCH, New Brunswick, N. J. Filed June 4, 1920. Serial No 386,434. 4 Claims. (Cl. 95—66.)



1. A plate carrying member which comprises an apertured portion, a portion to back a plate, a portion adapted to be bent upon itself to cover the face of a plate, a manipulative tab, and portions at the margins of said apertured portions and adapted to fold about a plate so as to hold the plate and backing portion and the face-covering portions in intimate association.

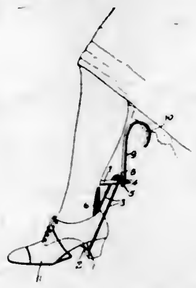
1,423,421. MACHINE FOR SKINNING AND CORING TOMATOES. HIRAM R. HARDING, Baltimore, Md., assignor to The Harding Peeling Machine Company, Inc., Baltimore, Md., a Corporation of Maryland. Filed May 10, 1921. Serial No. 468,415. 5 Claims. (Cl. 146—14.)



3. In a machine for skinning and coring tomatoes in a continuous operation, the combination with a wire-

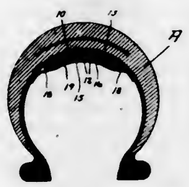
mesh conveyor belt comprising continuous longitudinal steel-wire strands and intermeshed crossed-wires, of means for washing and scalding tomatoes, means for slitting the tomatoes, and means cooperating with the conveyor belt for separating the pulp from the skins and cores.

1,423,422. SHOEHORN. IRWIN OTTO HARMS, Hillsboro, Kans. Filed Aug. 31, 1921. Serial No. 497,173. 3 Claims. (Cl. 132—8.)



1. A device of the character stated, including a heel engaging yoke, a cross piece connecting the extremities of the yoke, a plate pivoted on the yoke, a shoe horn integral with one end of the plate and located in a transverse plane to the plane of the plate, a handle integral with the other end of the plate, and substantially parallel with the shoe horn.

1,423,423. TIRE LINER. CHARLES F. HICKS, Romeo, Mich. Filed Mar. 31, 1922. Seral No. 548,431. 3 Claims. (Cl. 152—18.)



3. A reliner of the character described comprising a strip of flexible material, a plurality of longitudinally and transversely curved plates arranged in overlapping relation and riveted onto said strip, a relatively narrow packing strip disposed outwardly of said first named strip and covering the rivets, an outmost strip of rubberized fabric disposed outwardly of said packing strip and of greater width than first named strip whereby to project beyond the edges thereof, a second strip of rubberized fabric disposed inwardly of the metal plates, a plurality of metal plates disposed upon the outer periphery of said last named rubberized strip and formed at their corners with prongs pushed through and bent over with respect to said last named rubberized strip, said last named strip being of the same width as said first named rubberized strip and the projecting edges of both of the rubberized strips being vulcanized together, and a strip of fabric disposed inwardly of the assembled rubberized strips whereby to cover the prongs and prevent chafing of the inner tube.

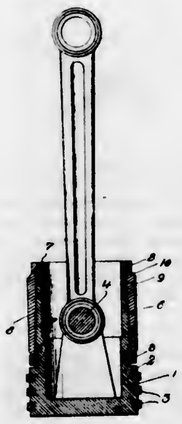
1,423,424. WELL BUCKET. JAMES M. HOLLIDAY, Hollister, Mo. Filed Sept. 10, 1921. Serial No. 499,604. 2 Claims. (Cl. 294—69.)

1. In combination, a bucket, a valve mechanism in the bottom end thereof, a valve stem controlling the valve mechanism and extending through the bucket so as to terminate adjacent the upper end thereof, means for normally holding the valve atem so as to hold the valve mechanism in an open position, a bracket mounted on the upper end of the bucket, a guide rod fixed to the upper



end of the bracket with an aperture in each end, links slidably mounted in the apertures, a ring connecting the upper end of the links, and levers pivotally mounted to the lower end of the bracket so as to be controlled by the links and so as to operate the valve atem upon the lifting of the bucket so as to close the valve mechanism.

1,423,425. PISTON. CHRISTIAN PAUL HOUSEMAN, York, Pa. Filed Aug. 16, 1921. Serial No. 492,711. 1 Claim. (Cl. 74—108.)

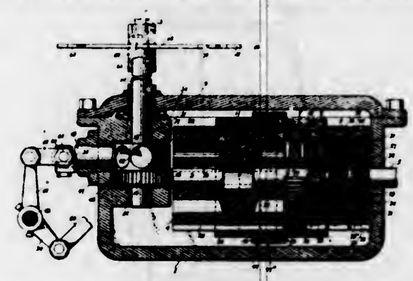


A piston of the class described having a tapered part, a split sleeve having a tapered bore engaging said tapered part and means for adjusting the sleeve longitudinally and circumferentially on the piston, such means comprising a pair of collars for engaging the ends of the sleeve.

1,423,426. TRANSMISSION GEAR FOR AUTOMOBILES. GEORGE O. HOWSETH, Morattico, Va. Filed Oct. 3, 1921. Serial No. 504,984. 18 Claims. (Cl. 74—59.)

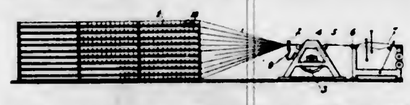
1. In transmission gear mechanism for auto-vehicles, a drive shaft, a drum fixed to said drive shaft and having

external spline grooves running longitudinally thereof, a driven shaft, a plurality of speed change gear units on said driven shaft, said gear units being externally toothed of uniform diameter and a sleeve provided with internal



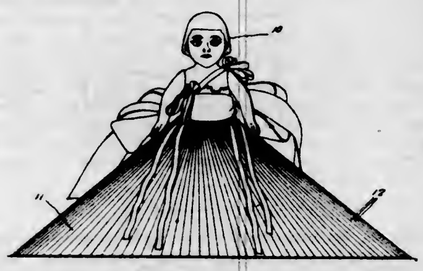
gear teeth at each end, means for shifting said sleeve so that while the internal teeth at one end permanently engage the grooves of said spline drum the internal teeth on the other end of said sleeve progressively engage external teeth of one of the speed change gear units.

1,423,427. APPARATUS FOR WEAVING BICYCLE AND AUTO CANVAS. ANDRIES WILLEM JANSEN, Geldrop, Netherlands. Filed Dec. 13, 1921. Serial No. 522,074. 3 Claims. (Cl. 139—18.)



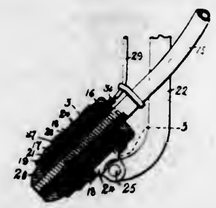
2. Weaving apparatus, comprising a tension device, and a plurality of spaced creels arranged in front of said tension device, said tension device comprising a plurality of cooperating rollers and a reed yieldingly supported in front of said rollers and each of said creels comprising a carrier extending radially with respect to said tension device, a row of bobbin pins supported by said carrier, and a member at the front of said carrier and extending laterally thereof, said member being provided with a plurality of guiding eyes for the individual warp threads carried by the bobbins supported in said carrier.

1,423,428. AMUSEMENT DEVICE. EMILY URSULA JAQUES, Visalia, Calif. Filed July 18, 1921. Serial No. 485,556. 2 Claims. (Cl. 46—41.)



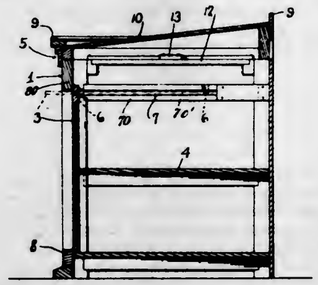
1. A device of the character described, comprising an image, a plurality of message carrying members consisting of sheets folded into triangular shape, the free corners thereof being arranged against the folded portions of said sheet and carrying said message, and means for supporting said members upon the image with said corners concealed from view, said members collectively forming a dress for said image.

1,423,429. SAND-PIPE HEATER. CHILION B. JOHNS, Ebensburg, Pa. Filed Feb. 21, 1922. Serial No. 538,391. 2 Claims. (Cl. 291—20.)



1. An attachment for sand pipes comprising cap members attached to the sand pipe at the discharge end in spaced relation, a tubular member connecting said cap members and spaced from the sand pipe, heat imparting means between the tubular member and the pipe, and a combined nozzle device and lock nut attached to the pipe at its discharge end.

1,423,430. COUNTER. LAURENCE E. JONES, Wichita Falls, Tex. Filed Apr. 30, 1920. Serial No. 377,890. 1 Claim. (Cl. 211—11.)

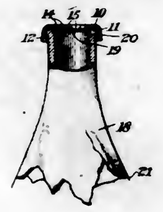


The combination of a casing having a bottom wall and side walls and also having an opening in one of said side walls, spaced above said bottom wall, bars arranged in the casing with their forward ends spaced from the side wall having the opening in the same horizontal plane as the upper portion of said opening, and having guideways, and a door to control said opening, said door arranged when closed to rest on said bottom wall back of the lower portion of said side wall, and being movable vertically to clear the portion of the side wall and swing outwardly beyond the wall portion below the opening, and being provided with trunnions slidable rearwardly in said guideways, whereby on opening of the door the opening will be entirely unobstructed and the door will be entirely out of the way for the removal of goods through the opening.

1,423,431. BOTTLE CAP. OTTO KAMPFE, Bellmore, N. Y., assignor of one-half to Henry C. Walker, New York, N. Y. Filed July 31, 1920. Serial No. 400,473. 4 Claims. (Cl. 215—38.)

1. A bottle cap comprising an annular retainer member having an external flange adapted to engage the neck of a bottle and an inwardly extending internal flange, and a closure member having a peripheral flange, the said closure member and its peripheral flange being adapted to be engaged in the sealing operation by the said inwardly extending internal flange of the retainer member to turn over the peripheral flange of the closure member

causing the same to engage a portion of the internal flange of the retainer member, while the periphery of the internal



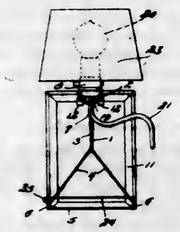
flange of the retainer member forces a portion of the closure member into the neck of the bottle to effectually seal the same.

1,423,432. AUTO THEFT PROTECTION. ANDREW KENDECHY, Cleveland, Ohio. Filed June 15, 1920. Serial No. 389,166. 3 Claims. (Cl. 200—43.)



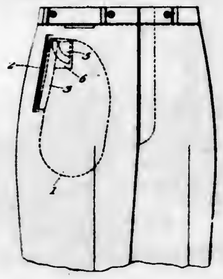
1. A switch comprising a base, spaced contact plates carried thereby, said plates including a pair of opposed semi-circular members, one of said members being adapted to define separate contacts each having one end spaced from the ends of the other semi-circular member, a switch closing member adapted to bridge the space between the contact plates, rotatable disks for normally holding the switch closing member in inactive position and means whereby the disks may be rotated to release the member to bridge the space between the contact plates and selectively close a circuit.

1,423,433. LAMP. ADOLPH A. KETCHEM, Chicago, Ill. Filed May 13, 1921. Serial No. 469,177. 6 Claims. (Cl. 240—4.)



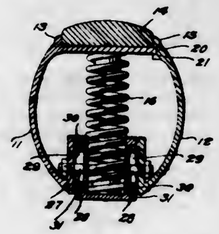
1. In a combination easel and lamp, the combination of a picture frame, a support therefor, a lamp supporting member thereon at its upper end, and means upon said supporting member for retaining a picture backing in said picture frame.

1,423,434. POCKET. JOHN LEE KIRK, Waynesboro, Pa. Filed Mar. 21, 1921. Serial No. 454,179. 1 Claim. (Cl. 2—15.)



A pocket for replacing a worn pocket of a garment having an opening therein and a strip of adhesive around the opening and means for adjusting the size of the opening, such means consisting of a flap formed of one side of the pocket and a small pocket at the opposite side thereof for receiving the flap.

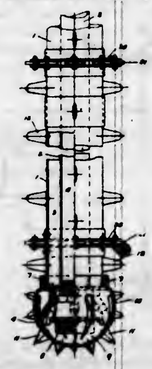
1,423,435. COMBINATION TIRE AND RIM. CHARLES O. LAMBREMONT, Plaquemine, La. Filed July 3, 1920. Serial No. 393,834. 1 Claim. (Cl. 152—38.)



In combination, a sectional tire, a rim including spaced parallel sides arranged between the tire sections, partitions formed on the tire sections, the partitions of one section being comparatively wide with regard to the partitions of the other section, fastening means passed through said sections for holding the latter operatively associated, said fastening elements being passed through said partitions, certain of said partitions being reduced to form stops, an annular flange formed on each tire section, a tread portion fitted between said flanges, yieldable means interposed between the tire and said rim, each side of said rim having recesses, washers fitted in said recesses and having elongated slots, and pins carried by the tire sections and movable within said slots of the washers to provide for an eccentric movement of the tire with regard to the wheel as described.

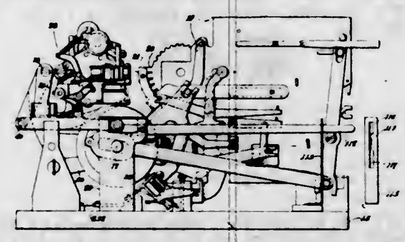
1,423,436. COMBINED WATER-JET AND SUCTION APPARATUS AND MEANS FOR OPERATING THE SAME. LEE LARSEN, Tampico, Mexico. Filed June 1, 1920. Serial No. 385,849. 5 Claims. (Cl. 37—45.)

1. A combined water jet and suction apparatus, consisting of two concentrically arranged tubes forming an annular space for conducting water for the jet pipe system and a passage for the excavated material; a ball bearing swivel attached to the upper end of the tubes, having inlet for water supply and outlet for the excavated material arranged to said tubes, the lower end of said tubes being connected to a bowl-shaped head, said jet pipe being jointed to said annular space passing through



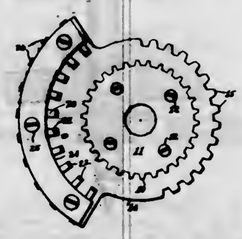
said head, said head having means for cutting and loosening material to be excavated.

1,423,437. CARRIAGE OPERATING MECHANISM. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Original application filed Mar. 28, 1917, Serial No. 158,142. Divided and this application filed Jan. 30, 1918. Serial No. 214,478. 5 Claims. (Cl. 235—58.)



2. In an apparatus of the character described, the combination of a carriage; a lever comprising two parts having openings adapted to be alined with each other; means operatively connecting the carriage to one of said parts; means for reciprocating the other of said parts; and means adapted to be passed through said openings to lock said parts together.

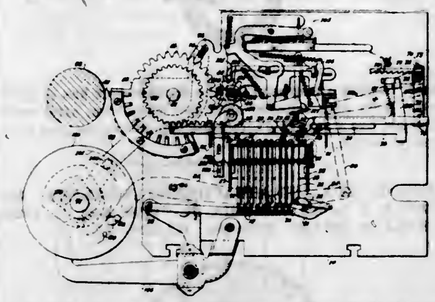
1,423,438. TYPE CARRIER. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Original application filed Mar. 28, 1917, Serial No. 158,142. Divided and this application filed Apr. 3, 1918. Serial No. 226,497. 8 Claims. (Cl. 235—58.)



1. In a type carrier, the combination of a flat main portion provided with recesses and openings; and type pieces

against the face of said portion and each provided with lateral projections engaging in the notches and recesses respectively.

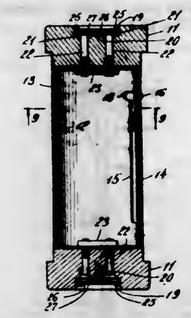
1,423,439. SECTOR CONTROL FOR TABULATING MACHINES. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 3, 1918. Serial No. 226,499. 22 Claims. (Cl. 235—58.)



1. In an apparatus of the character described, the combination of character carriers; means for preventing retrograde movement of the carriers and comprising a device associated with each carrier, and a single device engaged part common to all of the devices; and means for moving the single engaged part out of the path of the devices.

12. In a device of the character described, the combination of accumulating means; means for positioning the accumulating means comprising a movable part; means for engaging said movable part for positioning the accumulating means; and a roller adapted to be engaged by the accumulating means for pushing said movable part out of the path of said driving means when the accumulator is in total indicating position.

1,423,440. IDENTIFYING MEANS FOR PNEUMATIC-DISPATCH-TUBE CARRIERS. FRANK S. LEAVITT, Melrose, and ERNEST A. STAPLES, Dorchester, Mass., assignors to Atlas Devices Company, Inc., a Corporation of New York. Filed July 29, 1921. Serial No. 488,313. 5 Claims. (Cl. 243—39.)

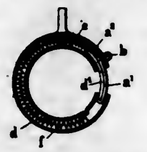


1. A pneumatic dispatch tube carrier comprising a body portion and a buffer head at the end thereof, said buffer head having a recess, means in said recess for securing the buffer head to said body portion, and an identifying device fastened in the recess by said buffer securing means.

1,423,441. BOLT FOR SPRING RINGS AND PROCESS OF MANUFACTURING THE SAME. LUCIEN LEMAITRE, Paris, France. Filed Mar. 24, 1921. Serial No. 455,304. 2 Claims. (Cl. 29—166.6.)

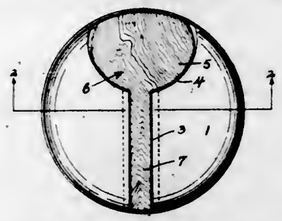
1. A bolt for a spring ring for jewelry, characterized in that the body of the bolt and the operating button are

formed by a common metal wire of semi-cylindrical section or of flattened half-round form, this wire being bent at a point in its length in order to form the button, and at each of its ends, its flat surfaces being applied one against the



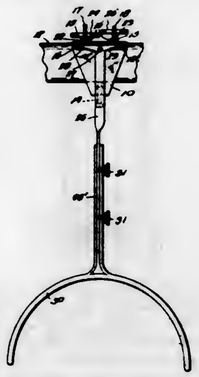
other, in such a manner that the finished bolt has a cylindrical form with rounded ends and its button, after compression, has a perfectly circular section with its joint completely hidden.

1,423,442. BOX AND ATTACHMENT THEREFOR. EDWIN C. J. LLOYD, Jeannette, Pa. Filed Aug. 31, 1920. Serial No. 407,120. 2 Claims. (Cl. 220—85.)



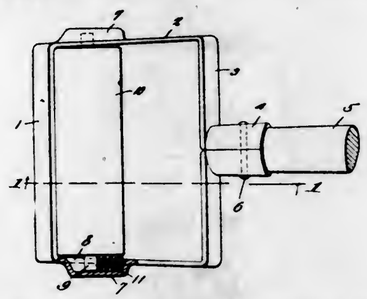
2. In combination with a box including a cover provided with a diametrically extending dovetail groove and a recess communicating with the groove at one end thereof and open at its outer end, said recess being of greater depth than said groove, a brush including a handle fitting snugly within the groove and a head positioned within said recess and including bristles disposed at right angles to the handle.

1,423,443. CARRIAGE-SHIFTING MECHANISM FOR TYPEWRITERS. ROCKWELL A. LOOMIS, Guatemala, Guatemala. Filed Nov. 7, 1921. Serial No. 513,463. 5 Claims. (Cl. 197—78.)



1. The combination with a typewriter of a lever pivoted thereto and depending therefrom and levers pivoted to the frame and extending over the typewriter mechanism and adapted to be depressed selectively by movements of the first-mentioned lever in opposite directions.

1,423,444. MOP. JOHN MCNAUGHTON, New York, N. Y. Filed Jan. 21, 1920. Serial No. 352,964. 1 Claim. (Cl. 15—119.)



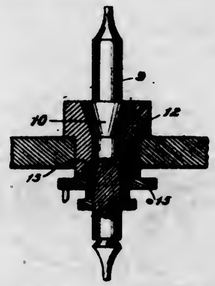
A mop head including forwardly converging sides, a transversely rounded connection integral with the sides at the forward ends thereof, there being longitudinal depressions within the inner faces of the sides of the head, a roller interposed between the sides, studs projecting therefrom and slidable within the depressions, and springs housed within the depressions and thrusting against the studs to hold the roller normally pressed against the connection, said springs being housed between the ends of the roller and the side portions of the head.

1,423,445. SHOE. EMILIO MAGALDI, Naples, Italy. Filed May 14, 1920. Serial No. 381,487. 1 Claim. (Cl. 36—35.)



In a shoe, an upper sheet metal portion having a flange adapted to fit about the rear of the shoe, an apertured sole secured to said upper portion, a rubber ring carried by the upper portion, a lower or wear part comprising a plurality of members, one of which extends into the rubber ring but is of less height than the same to form an air space, and means for detachably securing the said lower portion to the upper portion.

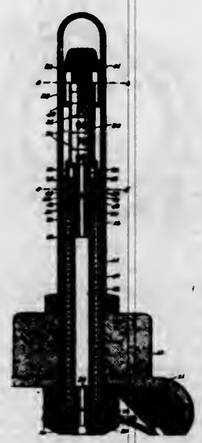
1,423,446. BALANCE STAFF FOR TIMEPIECES. WILLIAM H. H. NEEDY, Hagerstown, Md. Filed Aug. 11, 1921. Serial No. 491,598. 2 Claims. (Cl. 58—140.)



1. In a device of the class described, a balance arm, a bushing rigidly affixed centrally of said arm, the bushing

having an angular surface in its bore, a staff, an enlargement on said staff corresponding to the shape and size of the angular portion of said bushing, the bushing having a recess in one end, threads on said staff, and a nut to engage with said threads and adapted to enter said recess and to draw the bushing and enlargement in locking engagement with each other.

1,423,447. MAXIMUM-PRESSURE INFLATING VALVE AND GAUGE. SAMUEL B. NOE, Ocean Grove, N. J. Filed Mar. 1, 1921. Serial No. 448,842. 9 Claims. (Cl. 152—11.5.)



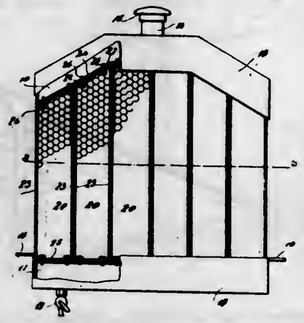
9. A maximum pressure inflating valve and gauge for inflatable bodies comprising an outer sleeve adapted for connection at its inner end with said body, said sleeve having its bore reduced adjacent its outer end to provide an annular internal stop shoulder, an inner sleeve telescopically arranged in said outer sleeve and projectable through said reduced bore, an inwardly opening check valve in said sleeve, a reduced neck extending inwardly from said hollow sleeve, an enlarged head carried by the free end of said neck and adapted to co-act with the stop shoulder of the outer sleeve to limit the outward projection of the inner sleeve therethrough, an extensible elastic tube connecting the head with the inner end of the outer sleeve, establishing communication between the inflatable body and said sleeve and functioning to normally retract the inner sleeve within the outer sleeve, outlet openings in the enlarged head communicating with its bore, a valve slidably mounted on the neck, and means disposed between the valve and the inner sleeve for normally projecting said valve into contact with the enlarged head to close the outlet openings, said valve being operable to relieve the inflatable body of excess pressure when the internal pressure reaches a predetermined maximum.

1,423,448. FOUNTAIN PEN. JAMES A. O'CONNOR, Bridgeport, Conn. Filed Dec. 15, 1920. Serial No. 430,894. 4 Claims. (Cl. 120—42.)



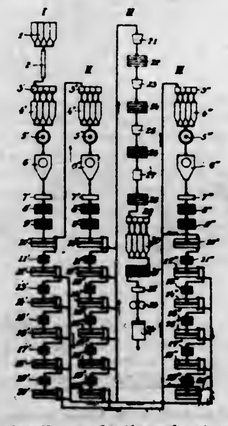
3. In a fountain pen, the combination of a pen, a shield extending over a portion only of the pen leaving the greater portion thereof exposed for writing, a nozzle, a stop surface on the shield, a stop surface on the nozzle, an internal joint surface on said shield, and a cap having stop surfaces bearing on said stop surfaces and an external joint surface bearing on the internal joint surface of the shield throughout its extent, said stop surfaces on said cap being spaced apart the distance between the stop surface on the nozzle and the stop surface on the shield.

1,423,449. SECTIONAL RADIATOR. ROY OSHKOSH, Manitowoc, Wis., assignor of one-fourth to Samuel W. Randolph, Manitowoc, Wis. Filed Aug. 28, 1920. Serial No. 406,589. 1 Claim. (Cl. 257—130.)



An automobile radiator comprising upper and lower tanks, the upper tank being provided in its bottom with a plurality of openings and a series of threaded holes, the lower tank being provided in its top with a plurality of openings and a series of threaded holes, a plurality of sections disposed between said tanks and having their upper and lower ends flat to conform to the bottom and top of the upper and lower tanks respectively, said sections being disposed in contacting relations to one another, cap screws carried by the upper and lower ends of the sections and threadedly engaged within said threaded holes in the bottom of the upper tank and top of the lower tank, and said flat ends being provided with openings registering with the openings in the tanks, the sections being removable.

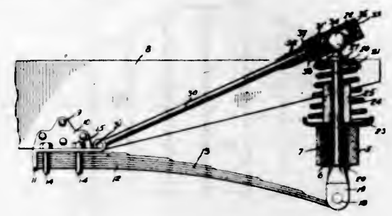
1,423,450. PROCESS FOR THE PRODUCTION OF OAT GROATS AND THE LIKE. HANS CHRISTIAN OTTERSTEDT, Svalof, Sweden. Filed Oct. 20, 1920. Serial No. 418,254. 2 Claims. (Cl. 83—42.)



1. A process for the production of oat groats, consisting in first treating the oats for the purpose of hulling

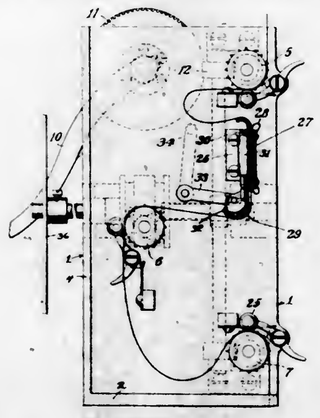
the same and for initial separation of the hulls and the material not thoroughly hulled in part from the cleaned hulled material, then subjecting the cleaned hulled material and the included material not thoroughly hulled to independent and successive separation to divide therefrom at each separation a proportion of the cleaned hulled material, then subjecting all of the cleaned hulled material from each separating step to a final treatment and returning all other material from the final separating step for initial treatment.

1,423,451. SPRING SUSPENSION. VICTOR W. PAGE, New York, N. Y. Filed Apr. 5, 1921. Serial No. 458,655. 12 Claims. (Cl. 267—29.)



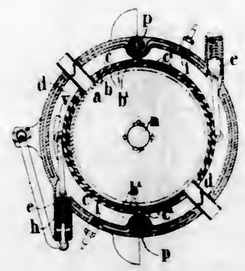
1. A spring suspension for vehicles comprising a cantilever spring rigidly secured at one end to the frame of the vehicle, a radius rod pivotally secured at one end to the frame of the vehicle at the point of securement of the cantilever spring, an axle provided with a perforation, a rigid member slidably mounted in said perforation, said rigid member being pivotally connected to the cantilever spring and to the radius rod, a coil spring interposed between the top face of said axle and the upper end of said rigid connecting member, and means for engagement with the upper end of said rigid connecting member to limit the sliding movement thereof relative to the axle upon compression of said coil spring to a predetermined degree.

1,423,452. MOTION-PICTURE MACHINE. NICHOLAS POWER, Brooklyn, N. Y., assignor to Nicholas Power Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 21, 1914. Serial No. 873,253. Renewed Dec. 10, 1920. Serial No. 429,808. 8 Claims. (Cl. 88—17.)



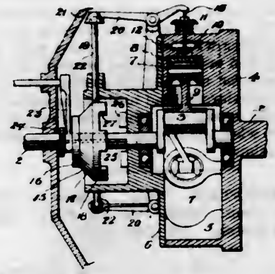
1. In a moving picture machine, the combination of a frame, an intermittently operated film feeding sprocket supported in fixed position thereon, a plate having a projection aperture supported in fixed relation to said sprocket, and means having a film engaging surface stationary with regard to the movement of the film between said plate and sprocket for varying the length of film between said plate and said sprocket.

1,423,453. INTERNAL-COMBUSTION TURBINE. THOMAS JAMES PUPLETT, Manchester, England. Filed Dec. 9, 1921. Serial No. 521,245. 7 Claims. (Cl. 60—41.)



1. In internal combustion turbines, the combination with a vane wheel, of a cylindrical ring-like element arranged in spaced relation peripherally of the wheel, a sleeve vave disposed about and contacting with the ring-like element, an annular combustion chamber arranged in spaced relation about the periphery of the sleeve valve, means for controlling the admission of compressed gases into the combustion chamber, means for igniting the gases, the ring-like element and sleeve having guide passages therethrough for directing the products of combustion against the vane wheel and spring controlled means normally keeping said passages out of alignment actuated by the pressure of combustion in said annular chamber for moving the sleeve valve to bring the passages in the ring and sleeve valve into alignment with one another and means for exhausting the products of combustion.

1,423,454. TRANSMISSION MECHANISM. REYNOLD J. REISER, Kenosha, Wis. Filed July 31, 1920. Serial No. 400,298. 2 Claims. (Cl. 192—57.)



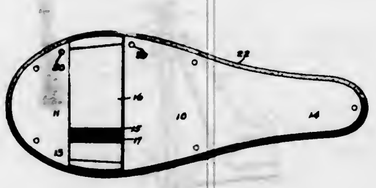
1. In a transmission mechanism, a drive shaft, a driven shaft, cylinders connected to one of the shafts, pistons working in said cylinders and connected to the other shaft, valves adjustable for controlling the flow of a fluid to and from the cylinders, an actuator, a slidably actuated and linked mechanism operated by said actuator and controlling the position of said valves, said mechanism including a pivoted lever for each valve and a pin connected to the lever and engaging said actuator.

1,423,455. HANGER. WILLIE LEE RIVERS and GEORGE BRITTON DIXON, Dallas, Tex. Filed Jan. 28, 1922. Serial No. 532,519. 1 Claim. (Cl. 16—172.)



Hangers for the purpose set forth, comprising cooperating members each of which including a flat body apertured for the reception of securing means, each of said bodies having a laterally extending head on the upper end thereof, one of said heads having an upwardly inclined flange at the outer edge thereof which is of a less width than the head proper and which has a notch in a line with its juncture with the head, the head of the cooperating member having its outer edge provided with a downwardly inclined finger and its outer edge arranged at an angle from the terminal of the finger to its juncture with the body, as and for the purpose set forth.

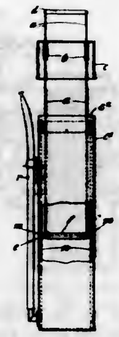
1,423,456. FOOT SUPPORT. ARPAD ROTH, New York, N. Y. Filed June 3, 1921. Serial No. 474,703. 2 Claims. (Cl. 36—37.)



1. A foot support comprising a pear-shaped body having the rear enlarged portion thereof twisted transversely to dispose the same at an angle to the forward restricted portion, and a depending brace secured to under side of the rear enlarged portion for maintaining said portion at an angle, said foot support being arranged within the shoe to dispose the elevated side toward the inner side of the heel in order that the position of the heel of the foot will be inverted to promote the correct articulation and posture of the same.

1,423,457. DAYLIGHT DEVELOPING TANK FOR PHOTOGRAPHIC ROLL FILMS. GEORGE VERE ROWDEN, Hove, England. Filed Jan. 28, 1921. Serial No. 440,788. 2 Claims. (Cl. 95—90.5.)

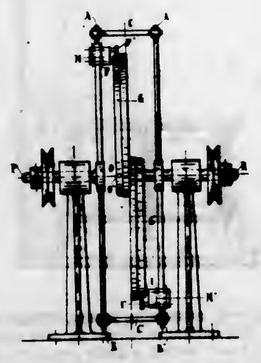
1. A daylight developing tank for roll films comprising a tank having a pair of opposed guides on its inner walls, a cap adapted to close said tank, a support for the roll of film within said tank, and a feeding slide consisting of two members adapted to slide through the cap of the tank, a connection between the outer ends of said members, a bar carried by the inner ends of said members, one or more rollers mounted on said bar between said



members and rollers mounted on the ends of said bar exterior to said members and adapted to engage the guides in the tank

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1,423,458. CHANGE-SPEED GEAR. ANDRÉ SAVARY, Paris, France. Filed Mar. 23, 1921. Serial No. 454,833. 4 Claims. (Cl. 74—14.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

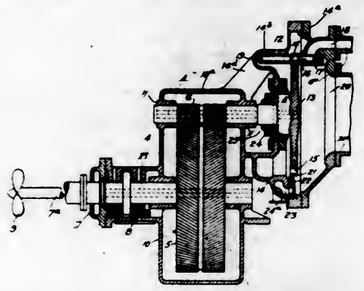


1. A change-speed gear, comprising a driving shaft, a member secured to said shaft to rotate therewith, a weight slidably mounted on said member, and an element provided with a race which is slidably engaged at its periphery by the weight; said weight being shiftable along said member away from the axis of said shaft and pressed against said race by the action of centrifugal force, when the driving shaft is rotated, so as to drive said element at a speed which varies automatically consequent upon the to and fro movement of the weight with relation to said axis.

1,423,459. GEARED TURBINE. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Aug. 31, 1917. Serial No. 189,217. 23 Claims. (Cl. 60—70.)

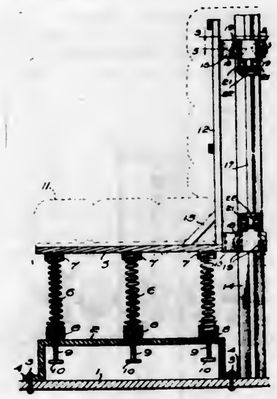
1. In an organized power developing apparatus, a gearing comprising a driving gear, a driven gear, and a casing

in which said gears are journaled, in combination with a turbine comprising a rotor element, mounted on an over-



hanging end of the shaft of the driving gear, a housing for the rotor element, divided along planes corresponding to divisions of the casing.

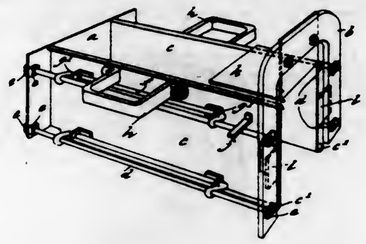
1,423,460. SPRING SEAT. LOUIS SCHREIBER, Holland, Mich. Filed Aug. 29, 1921. Serial No. 496,300. 2 Claims. (Cl. 155—53.)



1. A spring seat comprising a base, springs arranged on said base, a seat bottom arranged on said springs, a back secured to said seat bottom, a guide arranged adjacent said back near each side thereof, brackets secured to said back adjacent said guides, a pair of rollers carried by each of said brackets and engaging opposite sides of said guides, the axes of said rollers being arranged parallel to said back, and a roller carried by each of said brackets, the axes of said last named rollers being arranged at right angles to said back and adapted to engage the inner faces of said guides.

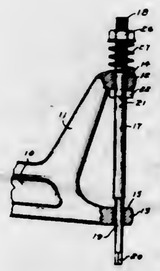
1,423,461. MOLD FOR USE IN BUILDING WALLS, MAKING BLOCKS, SLABS, TILES, OR BRIQUETTES. BASIL SCRUBY and GEORGE KETTELWELL HARKNESS, Harlow, England. Filed Apr. 6, 1920. Serial No. 371,605. 5 Claims. (Cl. 25—121.)

1. A bottomless mold of the class described, comprising two end members suitably spaced apart, rigid longitudinally disposed pieces connected at their opposite ends directly to said end members and holding said end members relatively immovable, a pair of movable side mold plates, and connecting arms pivoted to the movable side plates and to the rigid connecting pieces, said movable side plates being adapted to swing upward and outward about the axes of the rigid connecting pieces from an operative position into an inactive position.



5. A bottomless mold of the class described, comprising an open arched end member and a closed end member suitably spaced apart, longitudinally disposed pieces rigidly connecting the two end members and adapted to hold them relatively immovable, a pair of movable longitudinally arranged side mold plates extending from one end member to the other and having parts extending through and beyond the open end member, and connecting arms pivoted to the movable side plates and to the rigid connecting pieces and adapted to swing upward and outwardly about the axes of the rigid connecting pieces from an operative position into an inactive position.

1,423,462. FACING TOOL. JAMES ANSON SHARPNACK, Rices Landing, Pa. Filed Feb. 5, 1921. Serial No. 442,731. 3 Claims. (Cl. 90—11.)



1. A facing tool, comprising an elongated shank having one end threaded and adapted to be inserted in the registering openings of a steering knuckle axle and turned therein, a removable cutter on the shank intermediate of its ends, the cutter being provided with a recessed lower edge and the shank with means for engaging the recessed edge of the cutter, a nut on the threaded end of the shank, and a spring on the shank and adapted to be compressed by the nut between it and the said axle, whereby the cutter will be held in locked engagement with the inner face of one arm of the knuckle axle.

1,423,463. STOPPER FOR HOT-WATER BOTTLES. AI B. SHAW, Medford, Mass., assignor to Shaw Specialty Co. Inc., West Medford, Mass., a Corporation of Massachusetts. Filed Feb. 7, 1921. Serial No. 442,968. 6 Claims. (Cl. 150—8.)

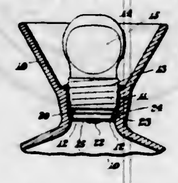
1. A hollow threaded bottle stopper having a bottom plate, a headed screw extending through said bottom plate

and freely revoluble therein, a packing disk surrounding the shank of said screw, a washer threaded to said screw



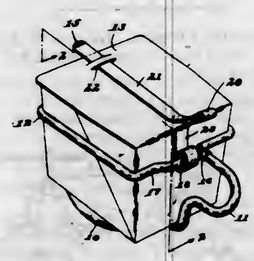
between said disk and stopper, and means for preventing the displacement of said disk.

1,423,464. STOPPER FOR HOT-WATER BOTTLES. AI B. SHAW, Medford, Mass., assignor to Shaw Specialty Co. Inc., West Medford, Mass., a Corporation of Massachusetts. Filed Jan. 20, 1922. Serial No. 530,672. 6 Claims. (Cl. 215—49.)



1. A threaded bottle stopper having a bottom plate provided with a central flanged projection; a packing member freely revoluble about said flanged projection; and a metal washer between said packing member and bottom plate.

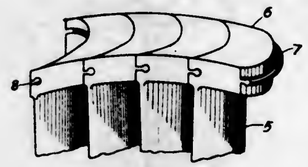
1,423,465. RECEPTACLE HOLDER. ORVILLE O. SHELINE, Chicago, Ill. Filed June 10, 1921. Serial No. 476,456. 5 Claims. (Cl. 4—39.)



1. A holder adapted to receive a receptacle having a cover mounted thereon comprising means cooperating with the holder to maintain the cover in closed position, said means comprising a continuous strip of flexible material having one end fixedly attached to the holder and the other end attached to the cover of the receptacle.

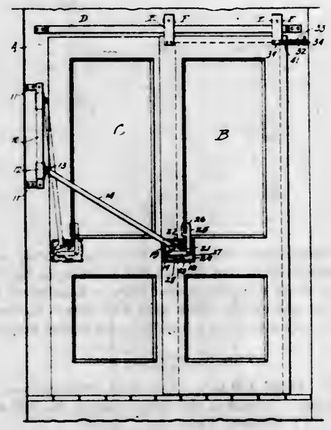
1,423,466. INTERLOCKING BLADE SHROUD. JOHN EDWIN SNYDER, Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 2, 1920. Serial No. 414,179. 5 Claims. (Cl. 253—177.)

1. In combination with the impulse blades of a turbine, a shrond member formed on the end of each blade and having convex and concave faces formed to cooperate



with the faces of adjacent blades, and an interlocking key for locking adjacent faces together.

1,423,467. SELF-CLOSING AND CONTROLLING MEANS FOR DOORS. BERNHARD SPITZFADEN, Brooklyn, N. Y. Filed Sept. 30, 1920. Serial No. 413,839. 9 Claims. (Cl. 292—262.)

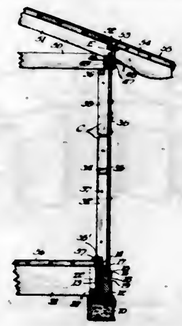


1. A self-closing means for doors including a vertical guide rod, a vertically sliding element thereon, a lever pivoted to said element and adapted to be pivoted at its opposite end to a door, and spring means exerting its pressure at one end on said lever and adapted at its opposite end to be secured to the door, said means normally tending to rock said lever in a direction to move the said lever for closing the door.

1,423,468. WOODEN BUILDING. JOSEPH G. STADELMAN, Chicago, Ill. Filed July 17, 1919. Serial No. 311,576. 7 Claims. (Cl. 20—2.)

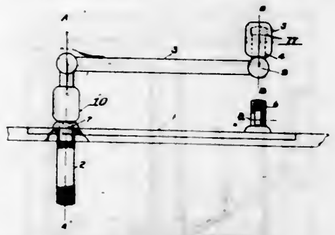
1. In portable house construction, the combination of a sill beam, and side wall sections, a longitudinally extending groove in the top of said beam, the upper outer corner of said beam being cut away to leave a supporting ledge, each side section comprising vertical studs, a board secured to the inner lower ends of said studs, and siding boards se-

cured against the outside of said studs, said board secured to the inner lower ends of said studs and siding boards en-



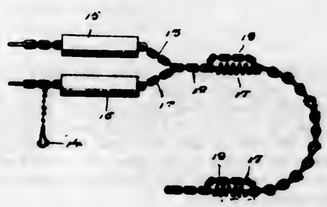
gaging in said groove and on said ledge respectively, and said studs engaging on said beam between said groove and ledge.

1,423,469. COMBINATION HANDLE AND CRANK. PETER LOUIS STREIT, Grand View, N. Y. Filed Aug. 20, 1920. Serial No. 404,826. 5 Claims. (Cl. 74—33.)



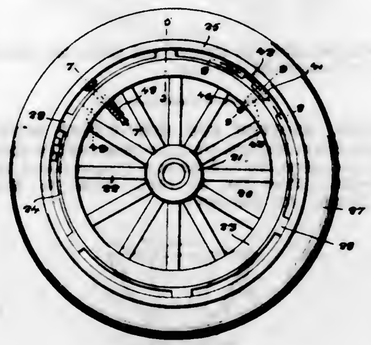
1. A combination crank and handle comprising a crank arm, means fixed to one end of the crank arm for attaching it to a shaft to operate the latter, a hand-piece hinged to the other end of the crank arm, and means for connecting it to a casing to form a handle for carrying purposes.

1,423,470. TIRE CHAIN. LOUIS C. STUKENBORG, Memphis, Tenn. Filed Aug. 30, 1921. Serial No. 496,811. 1 Claim. (Cl. 152—14.)



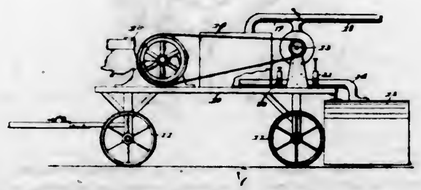
An anti-skid attachment for automobile wheels comprising a chain adapted to extend transversely over the tread of the tire, branches projecting from one end of the chain, sleeve-like members of yieldable material carried by said branches, a short chain suspended from one of said branches, a snap hook carried by the short chain and adapted to secure said branches to the other end of the chain proper, said branches being arranged at the opposite sides of the spoke of the wheel, with said sleeve-like member engaging said spoke, a coiled spring arranged at each side of the wheel, and each spring having its terminal secured to the chain at spaced points to provide a slack in the chain at the opposite sides of the wheel for the purpose specified.

1,423,471. DEMOUNTABLE RIM. SHERWOOD W. SWANSON, Jacksonville, Fla. Filed Oct. 18, 1919. Serial No. 331,727. 1 Claim. (Cl. 301—17.)



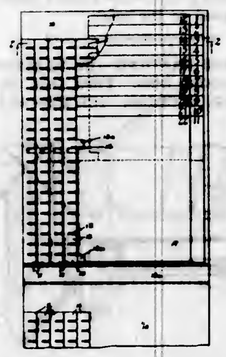
A device of the character described comprising a pair of laterally separable annular elements, a plurality of projections formed upon one of said elements and projecting onto the other, said projecting portion being formed with recesses constituting seats, a plurality of projections formed upon the other element and provided with tongues adapted to enter said recesses, said projections being wedge shaped longitudinally and being dove-tailed in cross-section, the assembled projections being adapted for disposition within retaining sockets, and means for locking said elements against relative rotation.

1,423,472. COTTON PICKER. HUBERT W. TAYLOR, Frederick, Okla. Filed Sept. 23, 1920. Serial No. 412,163. 1 Claim. (Cl. 56—12.)



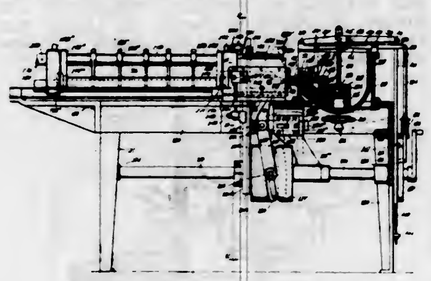
A cotton harvesting machine having a truck and motor actuated suction fan supported thereby, a transversely arched suction hood, a receiving box mounted on the truck, a discharge conductor connected with the receiving box, an inlet conductor extending from the suction hood to the receiving box and in communication with the fan at an intermediate point, and valves disposed in the inlet conductor on either side of the point of connection with the fan for the purpose specified.

1,423,473. FOLDER FOR PRESCRIPTION BLANKS. ROLAND BAXTER TAYLOR and LUCINDA TAYLOR, Melville, Saskatchewan, Canada. Filed May 19, 1921. Serial No. 471,001. 3 Claims. (Cl. 129—19.)



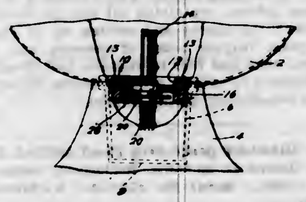
1. In a device of the class described, a series of strips of varying widths superimposed in stepped form, each strip presenting a longitudinal series of tabs adapted to be secured to the sheets to be held.

1,423,474. STRIP-CASTING MACHINE. JOHN S. THOMPSON, Chicago, Ill. Filed Nov. 20, 1920. Serial No. 425,363. 7 Claims. (Cl. 164—42.)



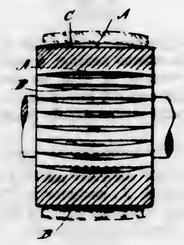
1. A device for cutting strips of material into sections of definite length, the combination of a cutting and trimming mechanism; an intermittently moving means for operating said mechanism; a ratchet operated by said intermittently moving means, and means operated at a predetermined time by said ratchet to connect said intermittently moving means to said cutting mechanism.

1,423,475. PERCOLATOR. MAURICE L. WARNER, Meriden, Conn., assignor to Manning, Bowman & Company, Meriden, Conn., a Corporation of Connecticut. Filed Dec. 13, 1921. Serial No. 521,971. 7 Claims. (Cl. 53—3.)



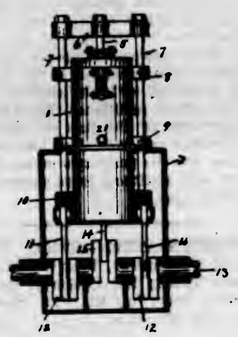
1. A percolator having, in combination, a heating chamber having an opening in its upper end, and a percolator tube provided with an enlarged portion having a rounded edge engaging the wall of said opening so as to permit tipping movement of the tube with relation to the heating chamber.

1,423,476. PULLEY. MILTON F. WILLIAMS, St. Louis, Mo., assignor of forty-nine one-hundredths to Harold M. Plaisted, St. Louis, Mo. Filed Aug. 19, 1920. Serial No. 404,564. 6 Claims. (Cl. 64—17.)



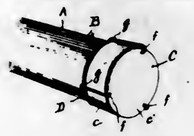
1. A high speed pulley provided with transverse grooves that are radially deeper in the middle of the pulley face than near the rim edges, and one face of which grooves is inclined backward in the direction of rotation, substantially as described.

1,423,477. INTERNAL-COMBUSTION ENGINE. FERDINAND BIRCHBAUER, Baltimore, Md., assignor of one-half to Joseph H. Fallis, Baltimore, Md. Filed Sept. 16, 1919. Serial No. 324,121. 1 Claim. (Cl. 123—51.)



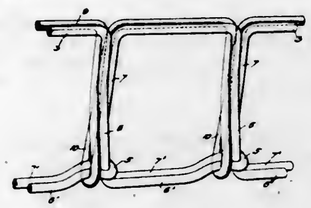
In an internal combustion engine, the combination of the cylinder having a passage at its upper end, an intake opening in said passage, and ports connecting said passage with the combustion chamber of said cylinder, a valve to control said intake opening, a passage at the lower end of said cylinder, an exhaust opening to the passage at the lower end of the cylinder, and ports leading from the combustion chamber to the passage at the lower end of the cylinder, a crank-case into which the lower end of said cylinder projects, a crank-shaft mounted in said case and having two cranks set at the same degree and one crank set opposite to the first mentioned two cranks, two pistons within said cylinder, a rod connecting the lower piston with the crank shaft, a cross-head above said cylinder, a rod connecting the upper piston with the said cross-head, a ring surrounding the lower end of the said cylinder, two rods connecting the cross-head with said ring, and rods connecting the said ring with the first mentioned two cranks on the crank-shaft.

1,423,478. BUNDLED WIRE. SPENCER C. CARY, Brooklyn, N. Y., assignor to Cary Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 3, 1922. Serial No. 549,122. 15 Claims. (Cl. 206—59.)



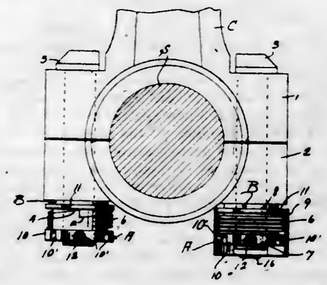
1. A commercial package embodying a multiplicity of elements in lengths, means against which the ends of the elements engage, certain of said elements extended beyond said means and secured intermediate the ends of the elements to retain said means fixedly relatively to the ends of the elements.

1,423,479. SEAM FOR SEWED ARTICLES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Aug. 4, 1917. Serial No. 184,448. 9 Claims. (Cl. 112—262.)



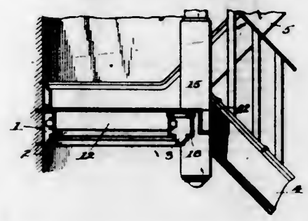
7. A seam for sewed articles comprising body-fabric material having punctures, a main thread having portions extending lengthwise of the line of seam at the upper face of the material and presenting penetrative main loops extending through said punctures to the under face of the material and enchained with one another to form single-chain stitches, and an additional thread having portions extending lengthwise of the line of seam at the upper face of the material and presenting auxiliary penetrative loops extending into the punctures occupied by said main loops, each of said auxiliary loops embracing and being keyed by a main loop.

1,423,480. COMPENSATING DEVICE. JOSEPH GUMBER and FRED. F. FEARHEILEY, East Moline, Ill., assignors to Automatic Takeup Nut Company, East Moline, Ill., a Corporation. Filed July 16, 1921. Serial No. 485,337. 3 Claims. (Cl. 85—32.)



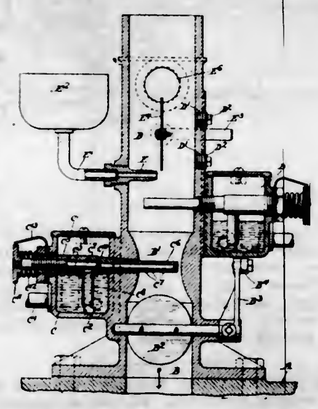
1. A compensating device of the class described comprising two members, said members having rotation one relative to the other when applied to the work, opposed faces of the members being provided with beveled portions adapted to contact, a spring coacting with said members to automatically rotate the members one with respect to the other, and means engageable with the members for holding the same against relative rotation before being applied to the work.

1,423,481. STAIR LANDING OR PLATFORM. AKOS J. HALL, Cleveland, Ohio. Filed Sept. 23, 1919. Serial No. 325,612. 2 Claims. (Cl. 189—43.)



1. In a metal stair platform, the combination of beams having openings therein, means for anchoring said beams in a wall, cross beams interposed between said beams, means on said cross beams received in the openings of said beams for supporting the cross beams thereon, and a floor platform fastened to the beams.

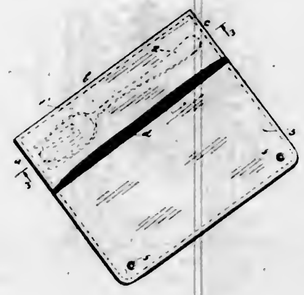
1,423,482. PROCESS OF SUPPLYING A COMBUSTIBLE MIXTURE TO INTERNAL-COMBUSTION ENGINES. WILLIAM H. C. HIGGINS, Jr., Laporte, Ind. Filed Sept. 24, 1917. Serial No. 193,043. 2 Claims. (Cl. 123—25.)



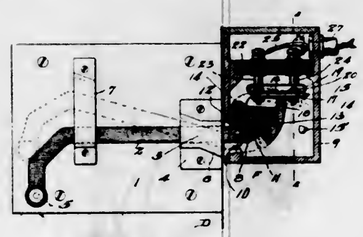
2. The process of supplying a combustible mixture to an internal combustion engine, which consists in moving a continuous column containing all the air used in the engine toward the engine and setting up in such continuous column varying zones of pressure and feeding water to one zone and fuel to another, and causing said zones of pressure to vary in relative degree during variation in the velocity of the air column.

1,423,483. DISPLAY ROLL FOR FLAT METAL TABLEWARE. JAMES G. LUDLUM, Bridgeport, Conn. Filed June 21, 1921. Serial No. 479,221. 3 Claims. (Cl. 150—52.)

1. A display roll for flat metal table ware comprising a plurality of partitions of soft flexible material all of which are secured together at one side to form a plurality of juxtaposed pockets adapted to hold the table ware articles in nested relation, a tab secured to the partitions at the sides which are secured together and adapted to be wrapped around the same, and means for securing the tab in wrapped relation.



1,423,484. DOOR LOCK. HOMER BAR MCCARTY, Ogden, Utah, assignor to O-K Elevator Safety Lock Company, Ogden, Utah, a Corporation. Filed July 7, 1921. Serial No. 482,973. 3 Claims. (Cl. 187—31.)



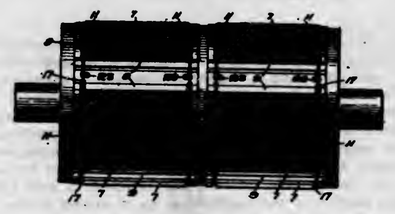
3. The combination in a door locking mechanism including electrical connections forming part of a control circuit, of a casing and terminal posts therein, a shaft within the casing, a carrier pivoted on said shaft and a conductor plate on said carrier adapted to contact with said posts, a weighted bumper arm pivoted on said shaft and a lug on said arm to engage and hold said carrier in uplifted position, a sliding door and latch bar pivoted thereon, a hooked end on said latch bar adapted to be projected through an opening in said casing, a locking lug on said casing for the hooked end, and said hooked end adapted to hold said bumper arm and carrier in uplifted position, for the purpose described.

1,423,485. BUSINESS-HOURS PLACARD. JOHN T. MCNIFF, Waterbury, Conn., assignor to Raymond F. McNiff, Waterbury, Conn. Filed Feb. 19, 1921. Serial No. 446,238. 3 Claims. (Cl. 116—131.)

1. A business hours placard comprising solely a flat body formed from card-board and having arranged thereon general readable matter, and a plurality of contextual tabs, the latter conjointed collectively by means of metallic rings with said body for a free swinging movement upwardly over and beyond the uppermost margin thereof, and bearing, respectively, specific readable matter readable contextually into the general readable matter aforenamed when caused, separately or more or less collectively, to traverse and overlie the upper portion of that face of the body bearing such general readable matter.

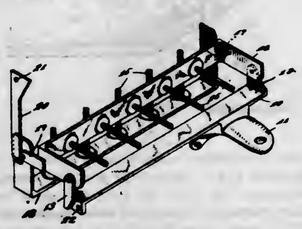


1,423,486. SECURING MEANS FOR PRINTING PLATES. CHARLES A. MEISEL, Dorchester, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 26, 1921. Serial No. 440,150. 4 Claims. (Cl. 101—378.)



1. In combination with a plate holder a binder adapted to overlie a plate thereon, means to secure one end of the binder to the holder, a plug on the other end of the binder, said holder having a cavity of relatively great depth to receive the plug and means to depress the plug into the cavity.

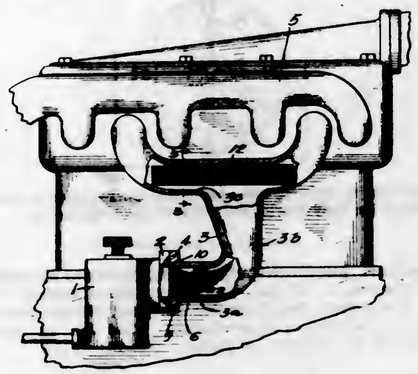
1,423,487. SPOOL HOLDER FOR SEWING MACHINES. HENRY A. MEISSEL, Indianapolis, Ind., assignor to Kahn Tailoring Company, Indianapolis, Ind., a Corporation of Indiana. Filed June 2, 1921. Serial No. 474,546. 10 Claims. (Cl. 242—139.)



2. As an article of manufacture, a spool holder for sewing machines comprising a main bar adapted to be secured

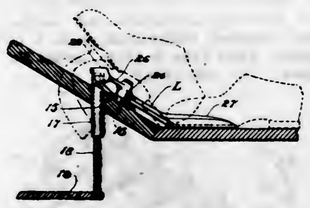
to a sewing machine and presenting an unobstructed upper surface, and a spool pin supporting bar provided with a relatively fixed depending spool pin and hingedly connected to said main bar to support the spool pin in retaining position perpendicular to the main bar and with its end spaced from the main bar a distance exceeding the thread diameter and movable to move the spool pin to a position substantially at right angles to the main bar and into a spool receiving position.

1,423,488. HOMOGENIZER. LUCIUS J. PHELPS, Los Angeles, Calif., assignor to William J. Humphreys, San Gabriel, Calif. Filed May 19, 1921. Serial No. 470,926. 4 Claims. (Cl. 48—180.)



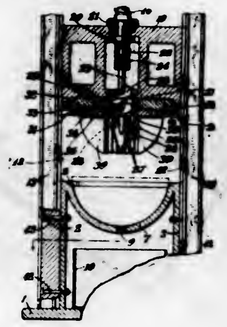
1. The combination with an internal combustion engine including an intake manifold having a flanged coupling end and including a transverse portion communicating with a perpendicular extension, of an impingement element in said manifold for breaking up the combustible mixture and including an annulus clamped in position by said coupling flange for supporting said impingement element, and a second impingement element for breaking up the combustible mixture and received in said transverse portion of the manifold so as to extend across the perpendicular extension of said manifold.

1,423,489. FOOT ACCELERATOR. HERBERT V. SOUSMAN, Wilmington, and JESSE M. FROST, Long Beach, Calif. Filed Dec. 29, 1921. Serial No. 525,612. 3 Claims. (Cl. 74—81.)



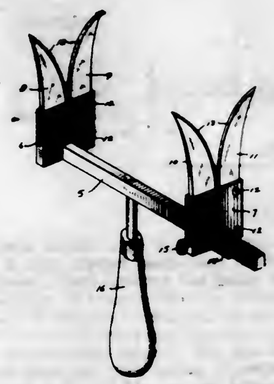
3. A foot accelerator comprising a lever including an inclined portion and a horizontal portion, means for pivotally sustaining the lever so that the same is adapted for swinging movement over the floor boards of a motor vehicle, a foot rest beneath the lever, a shaft having operative connection with the lever, and means carried by the lever and engageable with the shaft for limiting the movement of the lever in one direction or the other.

1,423,490. FRUIT SEEDER AND SLICER. GEORGE VAFIADES and JOHN KOUKOS, New York, N. Y. Filed Dec. 16, 1920. Serial No. 431,247. 14 Claims. (Cl. 146—6.)



7. In a fruit cutting device a cutter having a plurality of radially disposed double blades and peripheral blades arranged between each pair of blades.

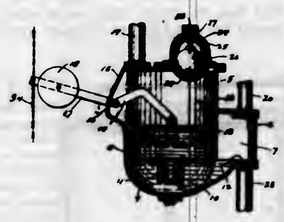
1,423,491. BUDDING IMPLEMENT. VINCENT CALANDRA, Buffalo, N. Y. Filed Mar. 24, 1920. Serial No. 368,277. 4 Claims. (Cl. 47—6.)



1. A budding implement characterised by having a rigid bar, stationary cutting blades rigidly mounted at one end of the bar, adjustable cutting blades slidably mounted upon the opposite end of the bar, and means for locking the adjustable blades in position.

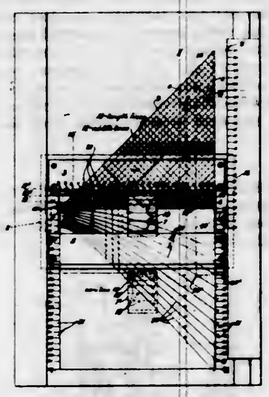
1,423,492. REGULATOR FOR VAPOR HEATING SYSTEMS. LESTER A. CHENEY, Kenmore, N. Y. Filed Feb. 1, 1918, Serial No. 214,848. Renewed Dec. 20, 1921. Serial No. 523,773. 6 Claims. (Cl. 236—31.)

1. In a vapor heating system, the combination with a boiler, of a regulator connected with the boiler, means for conducting all the condensation of the system to and through the regulator, means connected with the regulator and the dampers of the boiler for controlling the boiler



pressure, and means for maintaining definite levels of water within the regulator for any given steam pressure, independent of the height of the water within the boiler.

1,423,493. COMPUTING DEVICE. JOHN G. CLARK, Holyoke, Mass. Filed Nov. 4, 1919. Serial No. 335,615. Renewed May 2, 1922. Serial No. 558,039. 7 Claims. (Cl. 235—80.)

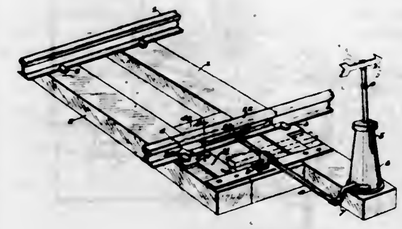


1. In a computing device of the kind described, the combination, a base-piece having thereon intersecting lines for forming rectangular shaped figures, curves on the base-piece and reference numerals thereon, a slide movable on the base-piece and over the figures, a movable piece carried by the slide and adapted to move transversely of the figures and having a zero line thereon which is designed to cooperate with the points of intersection of the said lines, said base-piece having numerals placed on the sides of the rectangular shaped figures and other numerals at the side of the curves, and with both of which the movable piece cooperates, said movable piece having correction lines which cooperate with the curves for determining the final result with reference to the numerals that are placed at the sides of the base-piece.

1,423,494. PROCESS FOR THE PREPARATION OF AROMATIC NITRAMINES. LOUIS HAAS, Paris, France, assignor to The Société Chimique De La Grande Paraisse, Paris, France. Filed Sept. 2, 1921. Serial No. 498,668. 2 Claims. (Cl. 260—128.)

2. A method of carrying out the process claimed in claim 1, consisting in introducing the chloronitro-derivative into acetic acid saturated with gaseous ammonia, maintaining a temperature of approximately 125°–130° C. and continuing to pass gaseous ammonia through so that the ammonium acetate is continuously regenerated.

1,423,495. DERAILER. JOHN H. HAMMONTRE, Los Angeles, Calif. Filed Jan. 3, 1921. Serial No. 434,623. 5 Claims. (Cl. 246—163.)



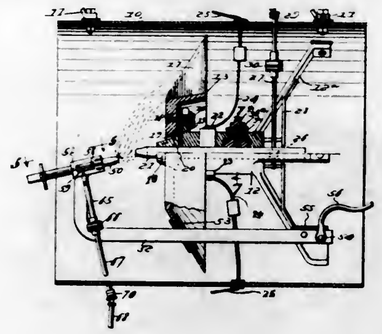
1. A derailer for a track including actuating mechanism for the same and a section of a track rail removable by said actuating means to cause the wheel of a car upon said track to drop from the rail, the joint between said rail proper and removable section forming an inclined end for the rail proper.

1,423,496. PUMP. LEWIS H. HANEY, Los Angeles, Calif. Filed Nov. 11, 1920. Serial No. 423,328. 4 Claims. (Cl. 253—179.)



1. The combination with a liquid impelling device including a rotatable impeller having a spiral blade provided with a radial port communicating with the bore of said impeller so as to discharge a portion of the liquid between the periphery of said impeller and its casing to form a fluid bearing.

1,423,497. ELECTRIC-ARC MECHANISM FOR SEARCHLIGHTS. LYMAN C. JOSEPHS, Jr., U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed June 9, 1919. Serial No. 302,980. 6 Claims. (Cl. 176—51.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



6. In a high intensity arc mechanism the combination with positive and negative electrodes, a slotted shield surrounding the positive electrode and a housing inclosing the shield; of means for directing the arc flame through the slot of said shield.

1,423,498. NECKTIE HOLDER. PETER KLINKHAMMER, Los Angeles, Calif. Filed Dec. 3, 1921. Serial No. 519,722. 1 Claim. (Cl. 24—60.)



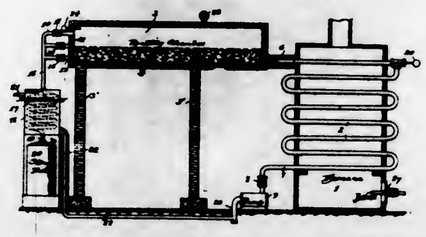
A necktie holder formed from a single length of resilient wire bent to provide a yoke adapted to embrace the shank of a collar button, said yoke having a restricted mouth, linear portions extending from the ends of the yoke and arranged in divergent relation with respect to each other, and hooks having upwardly extending prongs formed on the terminals of said portions and terminating at points below said mouth, said prongs being arranged in a plane disposed at an angle with respect to the plane of the linear portions.

1,423,499. WRENCH. JOE S. MCKIBBON, Los Angeles, Calif. Filed Feb. 9, 1922. Serial No. 535,210. 7 Claims. (Cl. 81—118.)



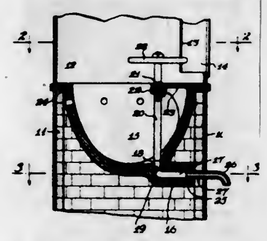
1. A wrench comprising a stationary jaw, a movable jaw associated with the stationary jaw to occupy a retracted position in which the faces of the jaws are disposed in converging relation to each other, and a projected position in which said faces are disposed in spaced parallelism, means for automatically opening the jaws, and adjustable means for limiting the opening action.

1,423,500. PROCESS OF TREATING PETROLEUM OIL. ROY CROSS, Kansas City, Mo., assignor to Gasoline Products Company, Inc., New York, N. Y., a Corporation of New York. Continuation of application Serial No. 211,407, filed Jan. 11, 1918. This application filed May 2, 1921. Serial No. 466,119. 15 Claims. (Cl. 196—25.)



2. A continuous process of treating oils under pressure without substantial distillation, consisting in passing the oil in a relatively small stream through a heating zone where the oil is heated to a cracking temperature, in discharging the oil from the heating zone in a substantially liquid phase and at a cracking temperature to an enlarged insulated reacting chamber located outside of the heating zone where further cracking takes place, maintaining the oil in both the enlarged insulated reacting chamber and the heating zone under pressure of evolved gases of the oil having a critical temperature below the cracking temperature of the bulk of the oil, said pressure being always sufficient to prevent any substantial vaporization of the oil, and in continuously removing the bulk of the oil in liquid phase and said pressure gases from said reacting chamber.

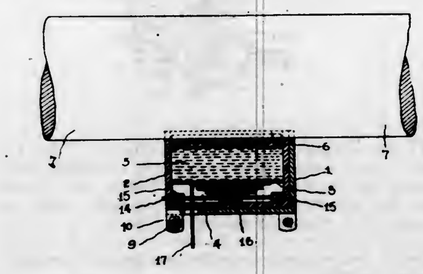
1,423,501. MELTING POT. JOHN B. MCCLAIN, Brooklyn, N. Y., assignor of one-fifth to Richard Meier, Brooklyn, N. Y. Filed Oct. 25, 1920. Serial No. 419,395. 2 Claims. (Cl. 263—11.)



1. The combination with a furnace having upper and lower compartments, the latter of reduced cross sectional dimension to provide a horizontal shoulder, said lower compartment having an opening in one of its side walls, of a melting pot of parabolical formation having an outwardly extending peripheral flange at its upper end adapted to engage said shoulder for supporting the melting pot within the lower compartment, a downwardly and laterally directed integral spout extending from the bottom of said melting pot and affording a space thereabove for the free circulation of heat thereabout for heating the outlet nozzle on all sides and allowing the portion of the bowl lying above the outlet nozzle to be subjected to the heat, said nozzle being provided with a central bore communicating with the interior of the melting pot and having its outer end in vertical alignment with the side of the pot and with its bore disposed in a horizontal plane with the opening in the side wall, a detachable nozzle adapted to be received by the outer end of the spout and insertable through the opening in

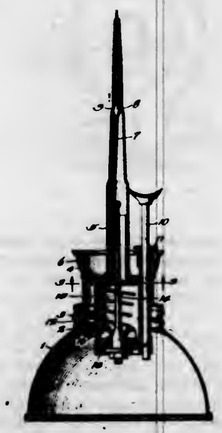
the side wall of the furnace, and means located within the bowl for closing the inner end of the bore of the nozzle having a manipulating device extending above the bowl for actuating the closure.

1,423,502. GREASE CELLAR. WILLIAM FRANCIS MITCHELL, Clifton, N. J., assignor of one-half to Frank R. Allen, Passaic, N. J. Filed June 26, 1920. Serial No. 391,950. 3 Claims. (Cl. 64—35.)



1. In a device of the character described, the combination of an open front case having a bottom and side walls, a closed box therein resting on the bottom of the case having an open top and adapted to contain a cake of lubricant and means for securing the box in the case, substantially as shown and described.

1,423,503. OIL CAN. ELDRIDGE H. NOBLE, Waukegan, Ill.; William J. Smith, administrator of said Eldridge H. Noble, deceased. Filed Nov. 17, 1919. Serial No. 338,676. 2 Claims. (Cl. 221—45.)



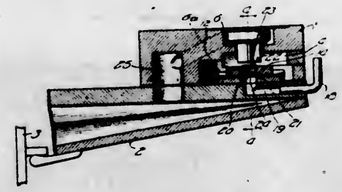
1. A can having a discharge spout; a stopper within the bore of the spout; mechanism accessible for operation upon the exterior of the can and in operating connection with the stopper upon the interior of the can; a pump barrel to which the stopper is attached and moving with the stopper, the aforesaid mechanism being in actuating relation to this pump barrel; a piston within the pump barrel and substantially fixed with respect to the can; and a spring between the piston and the outer end of the pump barrel normally to place the pump barrel in its outer position and to apply the stopper to the spout, there being communication between the pump barrel and the can interior when the pump barrel is in its outer position.

1,423,504. SAW FOR CUTTING METALS. PERCY VENABLES VERNON, Keresley, England. Filed Oct. 30, 1919. Serial No. 334,505. 6 Claims. (Cl. 29—69.)
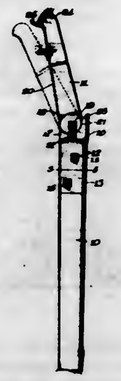


1. The combination of a saw having teeth and a device adapted to enter the spaces between the said teeth and to traverse the cutting faces thereof.

1,423,505. PNEUMATIC ACTION FOR PLAYER PIANOS AND THE LIKE. ADOLPH P. GUSTAFSON, Chicago, Ill., assignor to M. Schuls Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1919. Serial No. 280,120. 19 Claims. (Cl. 84—53.)



17. The combination of a pneumatic and a block mounted on the fixed member of said pneumatic, a pouch mounted on said block, and a second block mounted on said pouch, said second mentioned block being provided with a thimble forming a bleed port and said pouch also being provided with a bleed port, and said fixed member of said pneumatic being provided with a duct adapted for connection with a tracker board tube and extending to said pouch.

1,423,506. PRUNING SAW. AARON SLOTHOWER, Warren, Oreg. Filed June 23, 1920. Serial No. 391,238. 7 Claims. (Cl. 30—11.)



1. A pruning saw comprising a handle of flat substantially oval cross section, said handle being of rectilinear formation, a socket mounted on one end of the handle, said socket comprising a section of sheet metal bent upon itself to envelop the handle, fastening means passed

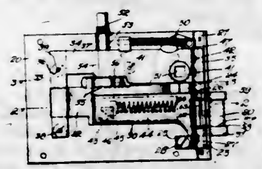
through the handle and socket sides, said sides being disposed inwardly toward each other beyond the free end of the handle and having a notch at the free end thereof and forming a spur at the bight portion forming the back of the socket and handle, and a blade carried between said side portions.

REISSUES.

15,411. TREATMENT FOR VENEREAL DISEASES. WILLIAM E. CRAIG, Joplin, Mo., assignor, by mesne assignments, to Craig Chemical Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed Mar. 3, 1922. Serial No. 540,897. Original No. 1,408,170, dated Feb. 28, 1922, Serial No. 265,356, filed Dec. 5, 1918. 13 Claims. (Cl. 167—7.)

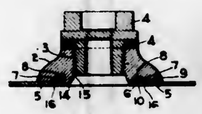
11. A remedy for internal use for venereal diseases comprising the product incident to the admixture of mercury, opium, quinine, and licorice, the said several ingredients being in substantially the quantity and bearing that relative proportion to each other fixed by the limits of the therapeutical action required substantially as described.

15,412. FASTENING DEVICE. LEON OTTINGER, New York, N. Y. Filed July 19, 1921. Serial No. 485,991. Original No. 1,312,199, dated Aug. 5, 1919, Serial No. 226,411, filed Apr. 3, 1918. 25 Claims. (Cl. 292—192.)



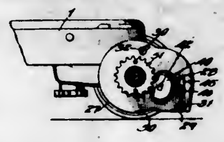
1. In a latch, a latching member adapted to be projected and retracted, a strike, and means adapted to expand the latching member in its transverse dimension during projection including a part carried by the latching member and co-acting with the strike, and means cooperating with said part to move the same into operative engagement with the strike and preventing return movement of said part to its normal position and permitting of such return movement only upon a retraction movement initially applied to said latching member.

15,413. SPUT FOR METALLIC RECEPTACLES. HENRY S. REYNOLDS, Brooklyn, N. Y., assignor to Meurer Steel Barrel Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 7, 1921. Serial No. 443,308. Original No. 1,332,686, dated Mar. 2, 1920, Serial No. 271,484, filed Jan. 16, 1919. 10 Claims. (Cl. 220—39.)



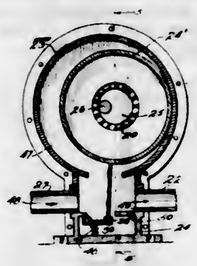
10. A metallic receptacle having an opening therein, and a sput fitted within said opening and provided with a recess offset with respect to the plane of the adjacent portion of the receptacle and with a bendable flange, the edge portions of said receptacle being forced into said offset recess and into engagement with interlocking irregularities formed on the sput, and said flange on said sput being bent to grip said edge portion within said recess and hold it in said interlocking relation.

15,414. SUCTION CARPET SWEEPER. JAMES M. SPANGLER, deceased, late of Canton, Ohio, by The Hoover Suction Sweeper Company, New Berlin, Ohio, a Corporation of Ohio, assignee. Filed June 22, 1917. Serial No. 176,445. Original No. 1,151,731, dated Aug. 31, 1915, Serial No. 733,988, filed Nov. 29, 1912. 23 Claims. (Cl. 15—8.)



10. The combination with a suction-cleaner hood of a brush and a brush support comprising a carrying plate mounted on the hood and means for holding the carrying plate in a predetermined position on the hood, and an adjusting plate pivoted to the carrying plate, the adjusting plate being provided with means whereby it may be locked in varying positions on the carrying plate and with a brush bearing.

15,415. PUMP MECHANISM. ELMER B. THOMPSON, Des Moines, Iowa, assignor to Thompson Manufacturing Company, Des Moines, Iowa. Filed Jan. 16, 1922. Serial No. 529,781. Original No. 1,156,724, dated Oct. 12, 1915, Serial No. 842,712, filed June 3, 1914. 3 Claims. (Cl. 230—30.)



1. A pump comprising a stationary outer cylinder, a hollow support therefor communicating with the same and having intake and exhaust ports, an eccentrically movable inner cylinder within the said outer cylinder for contact at one point in its periphery with the wall of the latter, a wing at the periphery of the inner cylinder and extended into the hollow support, a plate flexibly connecting the wing with one wall of the support below one of the ports to shut off communication between the spaces at the opposite sides of the said wing within the cylinder and support, and counterbalancing means for the plate and inner cylinder.

15,416. BOOT TOP. CHARLES TWEEDIE, Jefferson City, Mo. Filed May 20, 1922. Serial No. 562,538. Original No. 1,153,977, dated Sept. 21, 1915, Serial No. 876,404, filed Dec. 10, 1914. 8 Claims. (Cl. 36—2.)

1. A boot-top to be worn over a low shoe, said boot-top having full length quarters following the general lines of the upper portion of a high boot, the lower edges of said boot-top being arranged to coincide with the edges of the sole of the shoe around the heel and along the sides of the shank, and the front and back lower portions of said boot-top being sprung in a sufficient amount to make the lower edges of such portions closely hug the shoe,

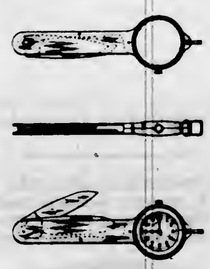
and a strap connecting the lower side edges of the boot-top, said strap being arranged to lie beneath and fit the



shank of the shoe from the breast of the heel to the points where the lower edges of the boot-top intersect the edges of the sole.

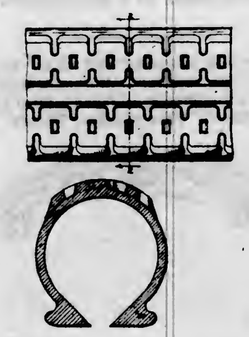
DESIGNS.

61,220. COMBINATION WATCH AND KNIFE. WILLIAM OCHSE, San Antonio, Tex. Filed Dec. 27, 1921. Serial No. 525,250. Term of patent 14 years.



The ornamental design for a combination watch and knife, or article of similar nature, substantially as shown.

61,221. TIRE. WILLIAM CARNAL, Akron, Ohio, assignor to The Carey Tire & Rubber Company, Carey, Ohio, a Corporation of Ohio. Filed Sept. 8, 1920. Serial No. 409,004. Term of patent 14 years.



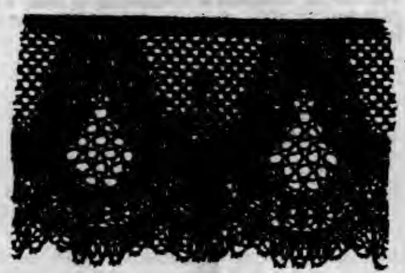
The ornamental design for a tire as shown.

61,222. DISH, PLATE, OR SIMILAR ARTICLE. GILBERT L. CROWELL, Jr., Arlington, N. J., assignor to Dominick & Huff, New York, N. Y., a Joint-Stock Company, New York, N. Y. Filed Oct. 22, 1921. Serial No. 509,744. Term of patent 7 years.



The ornamental design for a dish, plate, or similar article, as shown.

61,223. LACE. JOHN DRAYCOTT, Pawtucket, R. I. Filed Jan. 11, 1922. Serial No. 164. Term of patent 3½ years.



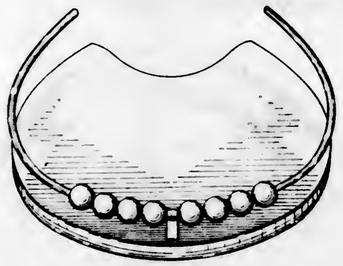
The ornamental design for a lace as shown.

61,224. TOY. MINGA POPE DURYEA and CORINNE INGRAHAM. New York, N. Y. Filed Dec. 13, 1920. Serial No. 430,589. Term of patent 3½ years.



The ornamental design for a toy as shown.

61,225. TRAY. JOSEPH GANNON, Walton, N. Y., assignor to Steinfeld Bros., New York, N. Y. Filed Feb. 8, 1921. Serial No. 443,477. Term of patent 14 years.



The ornamental design for a tray as shown and described.

61,226. STANDARD FOR LIGHTING FIXTURES. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 12, 1921. Serial No. 500,216. Term of patent 14 years.



The ornamental design for a standard for lighting fixtures as shown.

61,227. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,643. Term of patent 7 years.



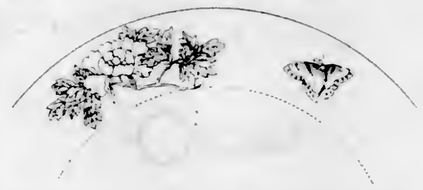
The ornamental design for a plate or similar article, as shown.

61,228. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,645. Term of patent 7 years.



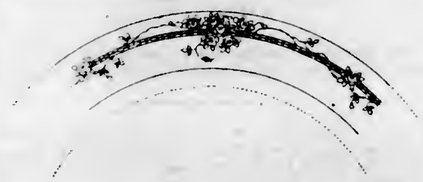
The ornamental design for a plate or similar article, as shown.

61,229. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,646. Term of patent 7 years.



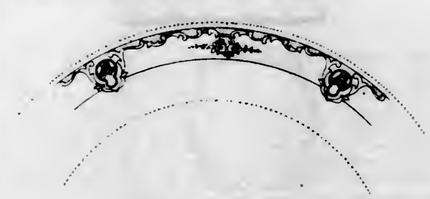
The ornamental design for a plate or similar article, as shown.

61,230. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,647. Term of patent 7 years.



The ornamental design for a plate or similar article as shown.

61,231. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,648. Term of patent 7 years.



The ornamental design for a plate or similar article as shown.

61,232. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,649. Term of patent 7 years.



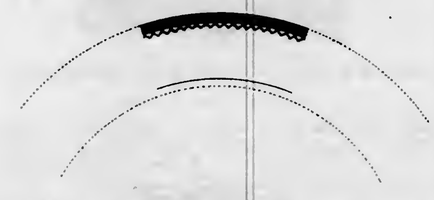
The ornamental design for a plate or similar article, as shown.

61,233. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,650. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,234. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,651. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,235. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,653. Term of patent 7 years.



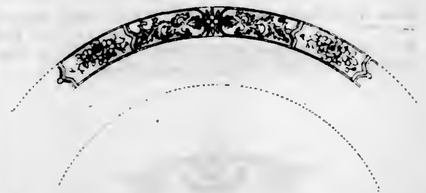
The ornamental design for a plate or similar article, as shown.

61,236. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,652. Term of patent 7 years.



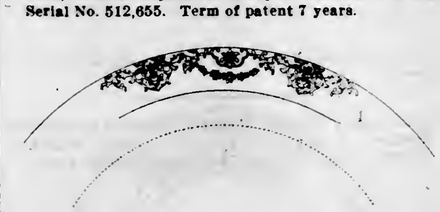
The ornamental design for a plate or similar article, as shown.

61,237. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,654. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,238. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,655. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,239. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,656. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,240. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,657. Term of patent 7 years.



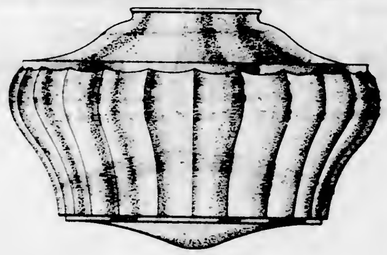
The ornamental design for a plate or similar article, as shown.

61,241. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,658. Term of patent 7 years.



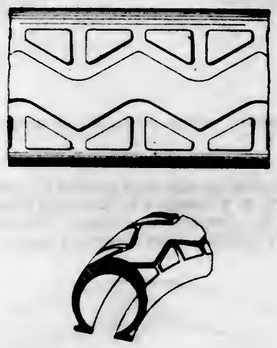
The ornamental design for a plate or similar article, as shown.

61,242. LAMP SHADE, GLOBE, OR SIMILAR ARTICLE. HARRISON D. MCFADDIN, East Orange, N. J. Filed Sept. 9, 1921. Serial No. 499,570. Term of patent 3½ years.



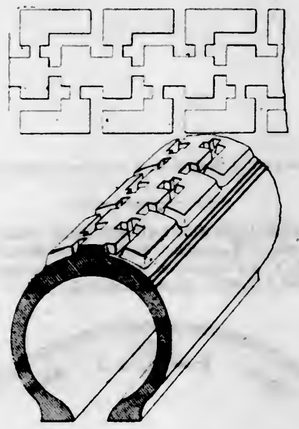
The ornamental design for a lamp shade, globe or similar article, as shown.

61,243. TIRE TREAD. HAROLD D. MITCHELL, Brooklyn, N. Y., assignor to C. Kenyon Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,661. Term of patent 14 years.



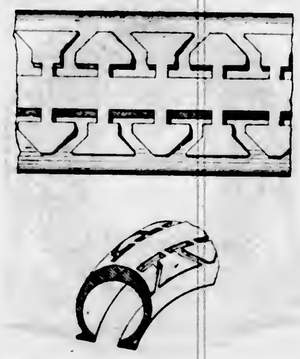
The ornamental design for a tire tread substantially as shown.

61,244. TIRE TREAD. HAROLD D. MITCHELL, Brooklyn, N. Y., assignor to C. Kenyon Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,662. Term of patent 14 years.



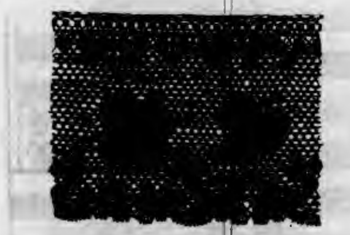
The ornamental design for a tire tread substantially as shown.

61,245. TIRE TREAD. HAROLD D. MITCHELL, Brooklyn, N. Y., assignor to C. Kenyon Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,664. Term of patent 14 years.



The ornamental design for a tire tread substantially as shown.

61,246. LACE. HANS ALBERT PHILIPS, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Feb. 3, 1922. Serial No. 518. Term of patent 7 years.



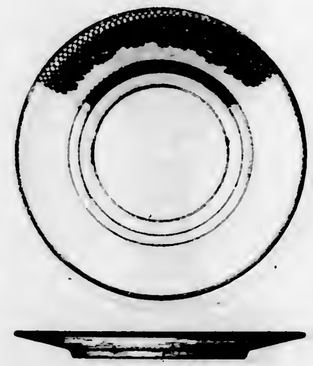
The ornamental design for lace substantially as shown.

61,247. GLASS DISH. CHARLES L. REISENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,095. Term of patent 7 years.



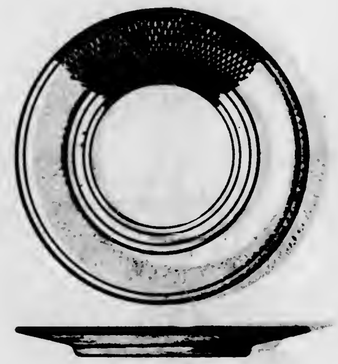
The ornamental design for a glass dish, substantially as shown.

61,248. GLASS DISH. CHARLES L. REISENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,096. Term of patent 7 years.



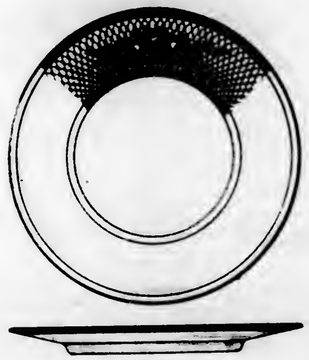
The ornamental design for a glass dish, substantially as shown.

61,249. GLASS DISH. CHARLES L. REISENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,097. Term of patent 7 years.



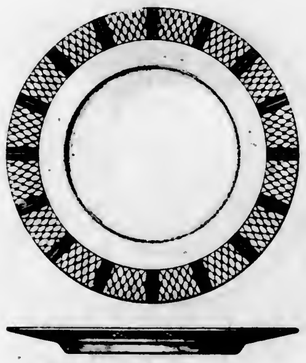
The ornamental design for a glass dish, substantially as shown.

61,250. GLASS DISH. CHARLES L. REISENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,098. Term of patent 7 years.



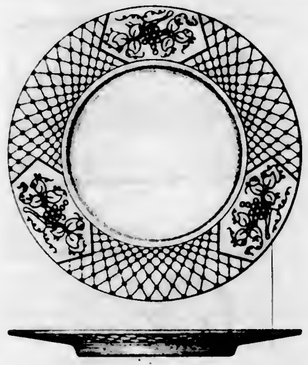
The ornamental design for a glass dish, substantially as shown.

61,251. GLASS DISH. CHARLES L. REIZENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,099. Term of patent 7 years.



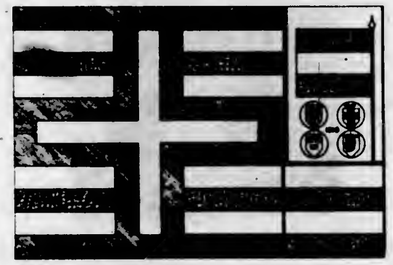
The ornamental design for a glass dish, substantially as shown.

61,252. GLASS DISH. CHARLES L. REISENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,100. Term of patent 7 years.



The ornamental design for a glass dish, substantially as shown.

61,253. FLAG FOR IRELAND. PATRICK D. RIORDAN, New York, N. Y. Filed July 5, 1921. Serial No. 482,605. Term of patent 14 years.



The ornamental design for a flag for Ireland as shown.

61,254. SHADE FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,721. Term of patent 7 years.



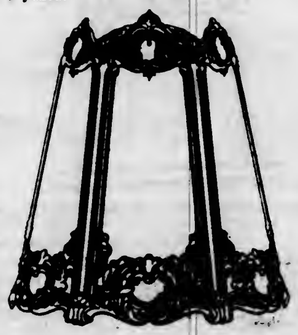
The ornamental design for a shade for lighting fixtures, as shown.

61,255. SHADE FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,722. Term of patent 7 years.



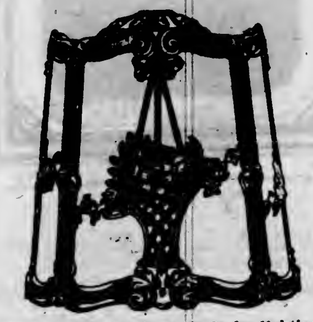
The ornamental design for a shade for lighting fixtures, as shown.

61,256. SHADE FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,723. Term of patent 7 years.



The ornamental design for a shade for lighting fixtures, as shown.

61,257. SHADE FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,724. Term of patent 7 years.



The ornamental design for a shade for lighting fixtures, as shown.

61,258. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,727. Term of patent 7 years.



The ornamental design for a pedestal for lighting fixtures, as shown.

61,259. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,728. Term of patent 7 years.



The ornamental design for a pedestal for lighting fixtures, as shown.

61,260. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,729. Term of patent 7 years.



The ornamental design for a pedestal for lighting fixtures, as shown.

61,261. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,730. Term of patent 7 years.



The ornamental design for a pedestal for lighting fixtures, as shown.

61,262. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,731. Term of patent 7 years.



The ornamental design for a pedestal for lighting fixtures, as shown.

61,263. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Nov. 8, 1921. Serial No. 513,821. Term of patent 7 years.



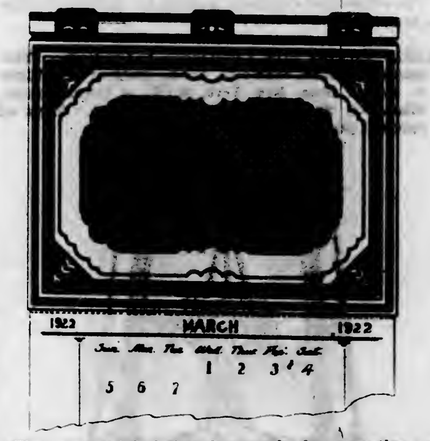
The ornamental design for a pedestal for lighting fixtures, as shown.

61,264. SHADE FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Nov. 8, 1921. Serial No. 513,822. Term of patent 7 years.



The ornamental design for a shade for lighting fixtures, as shown.

61,265. CALENDAR MOUNTING. DONALD MITCHELL WESTON, Dalton, Mass., assignor to Byron Weston Company, Dalton, Mass., a Corporation of Massachusetts. Filed Apr. 7, 1922. Serial No. 1,630. Term of patent 14 years.



The ornamental design for a calendar mounting, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 18, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 113,560. (CLASS 12. CONSTRUCTION MATERIALS.) GEO. S. GOOD FIRE BRICK CO., Patton, Pa. Filed Oct. 3, 1918.

WOODISON-STEEL

Particular description of goods.—Fire Bricks and Paving Blocks.

Claims use since May, 1911.

Ser. No. 122,018. (CLASS 37. PAPER AND STATIONERY.) MICHAEL MILTON, doing business as Milton Paper Company, New York, N. Y. Filed Aug. 26, 1919.

CROMWELL BOND

No claim to the use of word "Bond." "Cromwell" is the name of a celebrity—namely, Oliver Cromwell.

Particular description of goods.—Writing Paper.

Claims use since July 19, 1919.

Ser. No. 123,657. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NATIONAL METAL WARE CO., INC., Brooklyn, N. Y. Filed Oct. 10, 1919.



Particular description of goods.—Kitchen Utensils of Aluminum, Consisting of Dairy Pans, Cake and Pie Plates, Pudding Pans, Washbasins, Saucepans, Rice Boilers, Kettles, Dish Pans, and Drinking Cups.

Claims use since June 1, 1919.

Ser. No. 128,555. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MARION FOUNDRY CORPORATION, Marion, Ind. Filed Feb. 18, 1920.

CLEAR-CUT

Trade-mark is cast with the article and consists of the shape and style of the letters shown on drawing.

Particular description of goods.—Solid-Fuel Furnaces, Grate Frames, Grate Bars, Grate-Bar Levers, and Locks for Grate Bars.

Claims use since Mar. 24, 1919.

Ser. No. 129,451. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PETER A. DE LAPORTE, doing business as The D. & M. Healing Salve Co., Lodi, Calif. Filed Mar. 9, 1920.



The portrait is that of applicant.

Particular description of goods.—Salve for the Treatment of Eczema, Itchings, Burns, and Cuts.

Claims use since June 1, 1920.

Ser. No. 129,479. (CLASS 25. LOCKS AND SAFES.) STRONGHART COMPANY, Chicago, Ill. Filed Mar. 9, 1920.



Particular description of goods.—Small Portable Savings Banks and Safes.
Claims use since about Jan. 1, 1914.

Ser. No. 130,819. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALBERT C. FISCHER, doing business as Servicised Products Company, Chicago, Ill. Filed Apr. 8, 1920.

SERVICISED

LOOK FOR IT ON ALL PURCHASES

No claim is made to words "Look for it on all purchases."
Particular description of goods.—Roofing Paints, Barn Paints, Cold-Water, Oil, Metal, and Dampproofing Paints.
Claims use since Feb. 1, 1916.

Ser. No. 134,058. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CADILLAC PHONOGRAPH CORPORATION, Chicago, Ill. Filed June 23, 1920.



Particular description of goods.—Phonographs and Tone Arms, Sound Boxes, Horns, and Amplifiers for Talking Machines and Phonographs.
Claims use since Apr. 1, 1920.

Ser. No. 137,269. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE RELIANCE GAUGE COLUMN COMPANY, Cleveland, Ohio. Filed Sept. 16, 1920. Under ten-year proviso.

RELIANCE

Particular description of goods.—Steam-Boiler Fittings and Furnishings, Comprising Gauge Cocks, Steam Traps, Floats, and Alarm Devices for Use in Connection with the Foregoing.
Claims use since prior to 1886.

Ser. No. 138,651. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PIONEER INSTRUMENT COMPANY, Brooklyn, N. Y. Filed Oct. 21, 1920.

PIONEER

Trade-mark "Pioneer."
Particular description of goods.—Compasses, Banking Indicators, Turn Indicators, Pitching Indicators, Air-Speed Indicators, Air-Distance Recorders, Pitot Tubes, Venturi Tubes, Altimeters, Aerial Cameras, Rate-of-Climb Indicators, Vertimeters, Gasoline Gauges; Manometers, Indicating and Recording; Bomb Sights, Drift Indicators, Tachometers, Statoscopes, Inclinometers, Depth Indicators, Ships' Logs, Course and Distance Indicators.
Claims use since Mar. 1, 1919.

Ser. No. 139,722. (CLASS 12. CONSTRUCTION MATERIALS.) STASO LAMINATED SLATE COMPANY, Chicago, Ill. Filed Nov. 16, 1920.



No claim is made to exclusive use of words "Cannot Fade," "Resists Fire," "Resists Weather," and "Non-Fading Slate Roof Surface" or representation of the goods except when associated with the words "Sta-So" in the arrangement shown.
Particular description of goods.—Crushed Slate for Use as a Surfacing Grit for Prepared Roofings.
Claims use since Sept. 1, 1919.

Ser. No. 139,765. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.

ADAMS

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping and Toilet Use.
Claims use since on or about Jan. 1, 1841.

Ser. No. 139,830. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

PIUTE

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing and Sweeping.
Claims use since on or about Jan. 1, 1908.

Ser. No. 139,833. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

TRUMPET

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing and Sweeping.
Claims use since on or about Jan. 1, 1900.

Ser. No. 140,085. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ANGEL VELO Y FILGUEIRA, Habana, Cuba. Filed Nov. 24, 1920.



No claim to exclusive use of words "Agua Mineral San Francisco" appearing in upper portion of margin or to "Cuba" apart from mark shown.
Particular description of goods.—Mineral Water.
Claims use since Jan. 1, 1917.

Ser. No. 140,420. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 29, 1920. Under ten-year proviso.

CAR & PANEL

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Nov. 1, 1884.

Ser. No. 141,302. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GENERAL STEEL PRODUCTS CO., Detroit, Mich. Filed Dec. 20, 1920.



Particular description of goods.—Bar Steel, Sheet Steel, Band Steel, and Steel Plates, None of Said Goods Being Adaptable for Use as Tool Steel.
Claims use since July 1, 1920.

Ser. No. 142,005. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) COMPAGNIE, INDUSTRIELLE ET COMMERCIALE DU CYCLE ET DE L'AUTOMOBILE, Neuilly-sur-Seine, France. Filed Jan. 10, 1921.

STROMBOS

Particular description of goods.—Mechanically-Operated Warning Devices—Namely, Horns, Hooters, Sirens, Bells, and Fog Signals—and Parts of Said Devices.
Claims use since Dec. 12, 1913.

Ser. No. 142,560. (CLASS 39. CLOTHING.) JONES BROS. GARMENT CO., Dubuque, Iowa. Filed Jan. 21, 1921.

SLEEPER

Particular description of goods.—Sleeping Garments.
Claims use since 1903.

Ser. No. 143,374. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MULLER AND PHIPPS (ASIA) LIMITED, New York, N. Y. Filed Feb. 9, 1921.

Mogul

Particular description of goods.—Carriage Gongs.
Claims use since June 1, 1918.

Ser. No. 143,839. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STORM MANUFACTURING COMPANY, Minneapolis, Minn. Filed Feb. 19, 1921.

STORM

Particular description of goods.—Boring Tools and Machines, Reamers, Valve-Seating Tools, Milling Machines, Drill Presses, Burnishing Machines, Vises, and Jigs.
Claims use since on or about June 1, 1918.

Ser. No. 144,617. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ROLAND A. GAULT, New York, N. Y. Filed Mar. 11, 1921.

Lafayette

Particular description of goods.—Watches and Watch Movements, Watchcases, and Parts Thereof.
Claims use since July, 1920.

Ser. No. 146,654. (CLASS 11. INKS AND INKING MATERIALS.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.

Aster

Particular description of goods.—Inks—Namely, Black, Blue, Red, Purple, Fountain-Pen, and Green Writing Inks.
Claims use since December, 1913.

Ser. No. 146,734. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROGERS, LUNT & BOWLEN COMPANY, Greenfield, Mass. Filed Apr. 25, 1921.

Little Men and Little Women

Trade mark "Little Men and Little Women."
Particular description of goods.—Babies' and Children's Tableware—Namely, Knives, Forks, Spoons, Napkin Rings, Napkin Markers, Cups, Bowls, Dishes, Platters Servers, Trays, Mugs, Brushes, Combs, Mirrors, Baby Pins, Lockets, Baby Rattles, Whistles and Bells, All of Said Articles Being Made of or Ornamented with Sterling Silver, Silver Plate, Sheffield Plate, Gold and Gold Plate.
Claims use since January, 1917.

Ser. No. 147,086. (CLASS 12. CONSTRUCTION MATERIALS.) BECKMAN-DAWSON ROOFING CO., Chicago, Ill. Filed May 2, 1921.

READY ROOFING
WINTHROP
ASPHALT SHINGLES

No claim to exclusive right to use of words "Ready Roofing" and "Asphalt Shingles" or to the representation of the goods except when associated with word "Winthrop" in the arrangement shown
Particular description of goods.—Prepared Roofing and Asphalt Shingles.
Claims use since on or about Apr. 1, 1907.

Ser. No. 147,886. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) EDWIN HENRY MILLER, New York, N. Y. Filed May 18, 1921.

2-IN-1

Particular description of goods.—Clothespins.
Claims use since Jan. 1, 1921.

Ser. No. 148,269. (CLASS 12. CONSTRUCTION MATERIALS.) FIAT, Turin, Italy. Filed May 26, 1921.

FIAT

Particular description of goods.—Boards, Panels of Wood, Sheets, and Panels of Veneer, and Metal Reenforcing Bars.
Claims use since Oct. 14, 1919.

Ser. No. 148,270. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FIAT, Turin, Italy. Filed May 26, 1921.

FIAT

Particular description of goods.—Dynamos, Electromotors, Alternators and Parts Thereof, Converters, Transformers and Parts Thereof, Storage Batteries and Parts Thereof, Dry Batteries, Electric Locomotives, Switchboards, Switches, Commutators and Circuit Breakers, Rheostats and Starters, Fuses, Insulators, Electric Lamps, Telephone Apparatus, Telegraph Apparatus, Transmitters and Receivers for Wireless Signals, Electric Wires and Cables, Tanks and Electrodes for Electrochemistry, Electric Furnaces.
Claims use since Oct. 14, 1919.

Ser. No. 148,325. (CLASS 39. CLOTHING.) MELVIN FISHMAN, New York, N. Y. Filed May 27, 1921.



The word "Clothes" appearing on the drawing is hereby disclaimed as being a part therefrom.
Particular description of goods.—Men's and Boys' Suits and C[illegible].
Claims use since March, 1921.

Ser. No. 148,509. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921.

SUPERCHROME

Trade-mark "Superchrome." Applicant disclaims any exclusive right to the word "Chrome" apart from mark shown.
Particular description of goods.—Dyes, Dyestuffs, and Colors.
Claims use since Feb. 19, 1918.

Ser. No. 149,278. (CLASS 39. CLOTHING.) A. FREEDMAN & SONS, Boston, Mass., assignors to A. Freedman & Sons, Incorporated, a Corporation of Massachusetts. Filed June 17, 1921.

THE Afsons SHOE

No claim to use of words "The" and "Shoe" apart from mark shown.
Particular description of goods.—Boots and Shoes.
Claims use since Jan. 1, 1919.

Ser. No. 149,878. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALLACE & TIERNAN CO., INC., Newark, N. J. Filed June 30, 1921.

W&T

Particular description of goods.—Chlorine-Control Apparatus, Chemical-Control Equipment for Water Purification, Sewage-Treatment Apparatus, Textile and Paper Bleaching Apparatus, and Water and Sewage Sterilising Apparatus.
Claims use since April, 1915.

Ser. No. 149,880. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALLACE & TIERNAN CO., INC., Newark, N. J. Filed June 30, 1921.

WATCO

Particular description of goods.—Chlorine-Control Apparatus, Chemical-Control Equipment for Water Purification, Sewage-Treatment Apparatus, Textile and Paper Bleaching Apparatus, and Water and Sewage Sterilising Apparatus.
Claims use since June, 1918.

Ser. No. 150,072. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KENT STORAGE COMPANY, Grand Rapids, Mich. Filed July 6, 1921.

BLUE GRASS

Particular description of goods.—Condensed Milk and Butter.
Claims use since July 1, 1919.

Ser. No. 150,456. (CLASS 39. CLOTHING.) HARRY S. MORRIS, New York, N. Y. Filed July 16, 1921.



No claim is made to expression "King of $2.00 Hats."
Particular description of goods.—Ladies' Hats.
Claims use since July 14, 1921.

Ser. No. 150,709. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SANDOW TOOL CO., U. S. A., New York, N. Y. Filed July 20, 1921.

SANDOW

Particular description of goods.—Metal Shoe Shanks.
Claims use since Mar. 1, 1921.

Ser. No. 151,186. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MASCO DRUG COMPANY, doing business as Masco Laboratories, Boston, Mass. Filed July 30, 1921.

MASCO

Particular description of goods.—Chemicals, Medicines, and Pharmaceutical Preparations—to wit, Boracic Acid, Powdered Alum, Oxalic Acid, Licorice Compound, Cream Tartar, Flaxseed Meal, Rochelle Salts, Sodium Bicarbonate, Sodium Phosphate, Sugar Milk, Sulphur, Senna Leaves, Senna Pods, Zinc Stearate, Throat Gargle, Cold Cream, Emulsified Gum Sirup, Red-Oil Liniment for Rheumatism, Kidney Pills, Hair-Color Restorer, Dr. Snow's Pedi Cerate Used for Corns and Calluses, Sirup Hypophosphites, Toothache Drops, Throat Tablets, Throat Spray, Emulsion Gummifera Compound, Acetyl-Sal, Liquid Bug Exterminator, Egyptian Henna Hair Shampoo, Antiseptics, Sulphur and Cream Tartar, Cough Sirup for Babies; Beef, Wine, and Iron NF; Bay Rum; Beef, Iron, and Wine Special; Eye Tonics, Corn Cure, Laxative Tablets, Liquid Laxatives; Fruit Sirup, a Medicinal Preparation Used as a Cure for Summer Complaints and Diarrhea; Aspirin-Cascara Tablets, Sirup of Figs, Methine Compound for Moths and Bugs, Cedar Flakes, Cedar and Lavender Flakes, Moth Balls, Family Ammonia, Chloroform Liniment, Essence of Peppermint, Essence of Sweet Birch, Glycerin and Rose Water, Glycerin, Castor Oil, Camphorated Oil, Russian Petroleum Oil, Paregoric, Turpentine Spirits, Camphor Spirits, Sweet Spirits of Niter, Dobell's Solution, Hydrogen-Peroxide Solution, Larkspur Lotion for Head Wash, Witch Hazel, Sirup of Hydriotic Acid, Rhinitis Tablets, Foot Powder, Powdered Henna, Orris Root, Deodorizers, Fluid Extract Cascara, Insect Powder, Antiseptic Sprays; First-Aid Ointment, a Cure for Sores, Aches, and Pains; and Cough Sirups.
Claims use since Aug. 20, 1920.

Ser. No. 151,199. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. BODEK COMPANY, INCORPORATED, Philadelphia, Pa. Filed Aug. 1, 1921.

Trojan Mills

Particular description of goods.—Ribbons; Cotton, Woolen, and Silk Goods All in the Piece.
Claims use since about 1908.

Ser. No. 151,879. (CLASS 39. CLOTHING.) LINDER BROS., Scranton, Pa. Filed Aug. 17, 1921.

Shagmoor

Particular description of goods.—Ladies' Coats and Suits for Outer Wear.
Claims use since June 1, 1921.

Ser. No. 152,528. (CLASS 39. CLOTHING.) THE H. S. WEIL CO., Cleveland, Ohio. Filed Sept. 2, 1921.

WECO

Particular description of goods.—Aprons and House Dresses.
Claims use since January, 1919.

Ser. No. 152,549. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DEMING COMPANY, Salem, Ohio. Filed Sept. 3, 1921.

ATLAS

Particular description of goods.—Pumps.
Claims use since September, 1913.

Ser. No. 152,934. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) G. SIDENBERG & CO., New York, N. Y. Filed Sept. 14, 1921.

INDIAN HEAD

Particular description of goods.—Laces in the Piece and Nets in the Piece.
Claims use since 1863.

Ser. No. 152,954. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMISCHE FABRIK VON HEYDEN, AKTIENGESELLSCHAFT, Radebeul, Germany. Filed Sept. 15, 1921.

Caseosan

Trade-mark, "Caseosan."
Particular description of goods.—Solutions for Parenteral Protein Therapeutics.
Claims use since about 1919.

Ser. No. 153,031. (CLASS 39. CLOTHING.) C. P. BROWN MFG. CO., Des Moines, Iowa. Filed Sept. 17, 1921.

Securedall

Particular description of goods.—One-Piece Work Suits.
Claims use since 1913.

Ser. No. 153,032. (CLASS 39. CLOTHING.) C. P. BROWN MFG. CO., Des Moines, Iowa. Filed Sept. 17, 1921.

Security

Particular description of goods.—Overalls, Coats, Pants, Knickers, and Work Shirts.
Claims use since 1913.

Ser. No. 153,494. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WEST-LABORATORIUM GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Hamburg-Billbrook, Germany. Filed Sept. 28, 1921.

Yatren

Particular description of goods.—Antiseptic Preparation Whose Scientific Name is Jodsulfon-Ortho-Oxy-Benzolpyridin.
Claims use since June, 1913.

Ser. No. 153,967. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AIME BABOIN & CIE., Lyon, France. Filed Oct. 11, 1921.



"SPECIAL GOLD STAR FINISH"

Exclusive right to use of word "Finish" is disclaimed apart from the other features of the mark. The representation of the star is lined to indicate the color yellow to signify gold.
Particular description of goods.—Silk Net Goods in the Piece—Namely, Silk Nets, Malines, Illusions, Veilings, Tulles, and Tissues.
Claims use since Mar. 1, 1920.

Ser. No. 154,286. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HERBERT S. RUSSELL, Pembroke, Mass. Filed Oct. 18, 1921.

PHONO PHUN

Particular description of goods.—Phonograph-Record Discs.
Claims use since Aug. 1, 1920.

Ser. No. 154,401. (CLASS 39. CLOTHING.) TULLY S. COHEN, doing business as R. Frost & Co., New York, N. Y. Filed Oct. 21, 1921.

FROSTYLE DRESSES

No claim is made to the word "Dresses" apart from the mark.
Particular description of goods.—Children's and Misses' Dresses.
Claims use since about February, 1921.

Ser. No. 154,485. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACKSON B. CHANCEY, Lake Butler, Fla. Filed Oct. 22, 1921.

J.B.CHANCEY

The portrait shown in accompanying drawing is that of applicant.
Particular description of goods.—Preparation for Treatment of Piles, Leucorrhea, Burns, Eczema, Chafe, Cuts, Wounds, and Sores.
Claims use since 1909.

Ser. No. 154,612. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NORMAN W. NUTT, Trenton, N. J. Filed Oct. 26, 1921.

ROTOR ROTOR

Particular description of goods.—Electric-Light Sockets, Electric-Light Switches, Electric-Light Receptacles, Electric-Light Plugs, and Electric-Light Fixtures, or Electric-Light Globe-Receiving Apparatus.
Claims use since Oct. 10, 1921.

Ser. No. 155,003½. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) RAY O. BARDON, Upper Sandusky, Ohio. Filed Nov. 3, 1921.

BARDON'S



ANTI-SLIPPING DEVICE

No claim made to representation of goods and the words "Anti-Slipping Device" apart from mark shown.
Particular description of goods.—Antislipping Attachments for Shoes.
Claims use since June 13, 1921.

Ser. No. 155,254. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COLUMBUS MANUFACTURING COMPANY, Columbus, Ga. Filed Nov. 10, 1921.



FLYING CLOUD

Particular description of goods.—Cotton Sheetings.
Claims use since May, 1913.

Ser. No. 155,276. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) STACK HEATER COMPANY, Boston, Mass. Filed Nov. 10, 1921. Under ten-year proviso.

STACK

Particular description of goods.—Temperature-Controlled Valves, Relief Valves, Vacuum Valves, and Pipe Fittings.
Claims use since 1894.

Ser. No. 155,357. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARMOLA COMPANY, Detroit, Mich. Filed Nov. 14, 1921.

Dilaxin

Particular description of goods.—Laxatives.
Claims use since spring of 1908.

Ser. No. 155,525. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE TELL-STOP APPLIACE COMPANY, Cleveland, Ohio. Filed Nov. 17, 1921.

Tell TELL STOP Stop

No claim is made to the word "Stop" or to the representation of the face of the signal except in association with the other features of the mark.
Particular description of goods.—Electric Stop and Direction Signal Lamp Systems for Vehicles.
Claims use since about the middle of April, 1921.

Ser. No. 155,582. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WASHBURN & GRANGER, INC., New York, N. Y. Filed Nov. 18, 1921.

DEAN

Particular description of goods.—Hoists.
Claims use since May 25, 1921.

Ser. No. 155,659. (CLASS 39. CLOTHING.) BELMONT HOSIERY COMPANY, Belmont, N. H. Filed Nov. 21, 1921.

Grace-Mae

Trade-mark "Grace-Mae."
Particular description of goods.—Hosiery.
Claims use since September, 1921.

Ser. No. 155,821. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Nov. 23, 1921.

Silks de Luxe

No claim to word "Silks" apart from mark shown.
Particular description of goods.—Silk Piece Goods.
Claims use since June 1, 1916.

Ser. No. 155,895. (CLASS 39. CLOTHING.) JOHN C. LARKIN, New York, N. Y. Filed Nov. 25, 1921.

PRUDENTIAL HOSIERY
BUILT TO ENDURE

No claim to words "Hosiery Built to Endure."
Particular description of goods.—Hosiery.
Claims use since Nov. 18, 1921.

Ser. No. 156,156. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GOLDE-PATENT MANUFACTURING CO., INC., New York, N. Y. Filed Dec. 1, 1921.

DERBY GOLDE

The lining on drawing does not denote color.
Particular description of goods.—Waterproofed Top and Seat Cover Cloth of a Textile Nature.
Claims use since about July 22, 1920.

Ser. No. 156,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANDY KARAFFA, Johnstown, Pa. Filed Dec. 2, 1921.

JN COMPOUND

No claim is made to the word "Compound" apart from mark shown. The lining is for shading only.
Particular description of goods.—Medicine for Rheumatism for Internal and External Use.
Claims use since about Sept. 1, 1921.

Ser. No. 156,296. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROYAL EXTERMINATING PRODUCTS, INC., New York, N. Y. Filed Dec. 5, 1921.

ROYAL
The Seal of Certainty

Particular description of goods.—Insect Exterminators.
Claims use since about Dec. 1, 1920.

Ser. No. 156,320. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HENRY WICHMANN, Brooklyn, N. Y. Filed Dec. 5, 1921.

WP

Particular description of goods.—Plugs for Repairing Metal Bodies, Plates, Boilers, Tanks, Etc.
Claims use since July 1, 1921.

Ser. No. 156,357. (CLASS 39. CLOTHING.) CLADWELL DISTRIBUTING COMPANY, New York, N. Y. Filed Dec. 7, 1921.

Clad Well

Particular description of goods.—Knitted Sweaters.
Claims use since Nov. 28, 1921.

Ser. No. 156,392. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE H. T. LANGE CO., Eau Claire, Wis. Filed Dec. 7, 1921.

THE HTLC

RIVERSIDE

No claim being made to the word "Riverside" apart from the mark shown in drawing.
Particular description of goods.—Coffee.
Claims use since March, 1921.

Ser. No. 156,452. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LOGAN IRON & STEEL COMPANY, Philadelphia, Pa. Filed Dec. 8, 1921. Under ten-year proviso.

LOGAN

Particular description of goods.—Iron and Steel Bar Metal.
Claims use since end of year 1871.

Ser. No. 156,543. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK J. O'ROURKE, Whitestone, N. Y. Filed Dec. 10, 1921.

FRAJOR

Particular description of goods.—Medicines and Tonics or in Capsule Form for Treatment of Colds, Grippe, or Malaria; Face Creams or Lotions for Chapped Rough Hands, Face, or Lips; Liniments for Relief of Rheumatism, Neuralgia, Swelling, Sprains, Bruises, Stiff Joints, and Chilblains.
Claims use since June 1, 1920.

Ser. No. 156,733. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 15, 1921.

HUDSON HB&C

Particular description of goods.—Bleached, Unbleached, Dyed, Colored, and Printed Cotton Duck.
Claims use since June, 1906.

Ser. No. 156,759. (CLASS 39. CLOTHING.) SCULLY BROTHERS & CO., INC., New York, N. Y. Filed Dec. 15, 1921.



The words "New York" and representation of lady's hat are disclaimed apart from mark shown.
Particular description of goods.—Ladies' Trimmed Hats.
Claims use since November, 1919.

Ser. No. 156,767. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland. Filed Dec. 15, 1921.



Particular description of goods.—Cotton Goods Not in the Piece—Namely, Table Covers, Handkerchiefs, Tablecloths, Tea Cloths, Doilies, Bed Covers, Curtains, Cushion Covers, and Serviettes.
Claims use since Mar. 23, 1920.

Ser. No. 156,786. (CLASS 39. CLOTHING.) FOWLER-NICOLET CO., INC., Rutland, Vt., and New York, N. Y. Filed Dec. 16, 1921.

RUTMONT

Particular description of goods.—Men's Dress, Negligee, Flannel, and Sport Shirts and Boys' Negligee Shirts, Pyjamas, and Night Robes.
Claims use since Nov. 15, 1921.

Ser. No. 156,874. (CLASS 39. CLOTHING.) E. J. WILE & CO., New York, N. Y. Filed Dec. 17, 1921.

Worthwile
All-Purpose

Trade-mark consists of the words "Worthwhile All-Purpose," no claim to exclusive use of hyphened word "All-Purpose" apart from mark shown.
Particular description of goods.—Coats and Suits.
Claims use since March, 1921.

Ser. No. 156,938. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) UNION DROP FORGE COMPANY, Chicago, Ill. Filed Dec. 19, 1921.

U

Particular description of goods.—Drop Forgings.
Claims use since Jan. 1, 1895.

Ser. No. 156,953. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. BOURJOIS & Co. INC., New York, N. Y. Filed Dec. 20, 1921.

LA ROSE POMPON

Particular description of goods.—Toilet Powder, Perfumes Sold as Extracts, Toilet Water and Lotions, Sachet Powder, and Sachets.
Claims use since Aug. 12, 1907.

Ser. No. 157,001. (CLASS 39. CLOTHING.) NELSCRAFT, INC., New York, N. Y. Filed Dec. 21, 1921.

Nelscraft INC.
Creators of
TAILORED WAISTS
An Institution Founded for Service

No claim to exclusive use of words "Creators of Tailored Waists" and "An Institution Founded for Service." The portrait is fanciful. Horizontal lining on medallion represents shading.
Particular description of goods.—Tailored Waists.
Claims use since Dec. 16, 1920.

Ser. No. 157,133. (CLASS 39. CLOTHING.) BAKER, JACOBS & COMPANY, Buffalo, N. Y. Filed Dec. 27, 1921.

BJ&C
RITETIES

No claim is made to exclusive use of the word "Ties."
Particular description of goods.—Neckties.
Claims use since Dec. 10, 1921.

Ser. No. 157,205. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ACKERMITE COMPANY OF AMERICA, Reno, Nev. Filed Dec. 28, 1921.

ACKERMITE

Particular description of goods.—Bearing Metal in Pig Form.
Claims use since Nov. 15, 1921.

Ser. No. 157,223. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) N. W. JORDAN, Hampton, Va. Filed Dec. 28, 1921.

KONKEUR
KOZY SALVE

No claim is made to the word "Salve" apart from mark shown. The drawing is lined for red.
Particular description of goods.—Medicine Used in the Treatment of Piles, Burns, and Itch.
Claims use since about Oct. 27, 1921.

Ser. No. 157,276. (CLASS 39. CLOTHING.) LADYFAIR HOSIERY AND UNDERWEAR CO. INC., New York, N. Y. Filed Dec. 29, 1921.

Ladyfair

Particular description of goods.—Women's Hosiery Made of Knitted and of Woven Fabrics and Underwear.
Claims use since June 1, 1919.

Ser. No. 157,379. (CLASS 27. HOROLOGICAL INSTRUMENTS.) JAMES F. MANSFIELD, New York, N. Y. Filed Dec. 31, 1921.

MANSFIELD "PARAMOUNT"

Particular description of goods.—Watches and Clocks.
Claims use since Oct. 1, 1921.

Ser. No. 157,409. (CLASS 39. CLOTHING.) COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif. Filed Jan. 3, 1922.

"Mariposa" Silk Gloves

No claim to words "Silk Gloves" apart from the mark.
Particular description of goods.—Silk Gloves.
Claims use since Nov. 2, 1921.

Ser. No. 157,419. (CLASS 11. INKS AND INKING MATERIALS.) THE FUCHS & LANG MANUFACTURING COMPANY, New York, N. Y., and East Rutherford, N. J. Filed Jan. 3, 1922. Under ten-year proviso.

COLUMBIA

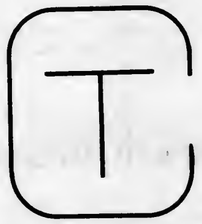
Trade-mark consists of the word "Columbia."
Particular description of goods.—Printing and Lithographic Inks.
Claims use since May 1, 1890.

Ser. No. 157,462. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILSON UTENSIL COMPANY, Dayton, Ohio. Filed Jan. 3, 1922.

SILVER WEDDING

Particular description of goods—Aluminum Cooking Utensils—Namely, Preserving Kettles, Saucepans, Straight Kettles, Convex Kettles, Windsor Kettles, Double Boilers, Teakettles, Pudding Pans, Pie Pans, Cake Pans, Roasters, Coffee Percolators, Coffeepots, Teapots, Dish Pans, Skillets, Washbasins, Casseroles, Combination Steam Cookers, Combination Roasters and Kettles.
Claims use since Sept. 20, 1921.

Ser. No. 157,592. (CLASS 37. PAPER AND STATIONERY.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Jan. 6, 1922.



Particular description of goods.—Sheet Paper for Printing and Writing.
Claims use since Nov. 24, 1921.

Ser. No. 157,834. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DANIEL JONES GUNTER, doing business as Fulton Drug Co., Atlanta, Ga. Filed Jan. 12, 1922.

SULFUR-CARA

"The word "Sulfur" is not claimed except as a part of trade-mark shown.
Particular description of goods.—Blood Purifier and Nerve Tonic.
Claims use since November, 1921.

Ser. No. 157,873. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN ABRASIVE METALS COMPANY, New York, N. Y. Filed Jan. 13, 1922.

FERROX

Particular description of goods.—Bank-Vault Lining Plates of Composite Metal.
Claims use since Aug. 10, 1921.

Ser. No. 157,961. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Jan. 14, 1922.

NEOLAN

Particular description of goods.—Coal-Tar Colors.
Claims use since Oct. 1, 1921.

Ser. No. 158,110. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BRIDGEPORT BRASS COMPANY, Bridgeport, Conn. Filed Jan. 19, 1922.



The words "It's Tested" are disclaimed apart from mark shown. The drawing is lined to show the seal as red.
Particular description of goods.—Nonferrous Metals in the Form of Ingots, Billets, Slabs, Sheets, Wire, Rods, and Tube Blanks.
Claims use since on or about Oct. 1, 1921.

Ser. No. 158,183. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GOLDFARB & FRIEDBERG, INC., New York, N. Y. Filed Jan. 20, 1922.

"BLUITE 18K"

The term "18K" is disclaimed apart from the mark shown.
Particular description of goods.—White Gold.
Claims use since Jan. 10, 1922.

Ser. No. 158,253. (CLASS 39. CLOTHING.) PERFECT GARMENT CO., Baltimore, Md. Filed Jan. 21, 1922.

DUO MIDDY

No claim made to the word "Middy" apart from mark shown.
Particular description of goods.—Middy Blouses.
Claims use since Dec. 15, 1922.

Ser. No. 158,302. (CLASS 39. CLOTHING.) HATTIE FELS, New York, N. Y. Filed Jan. 23, 1922.



Particular description of goods.—Clothing for Children to be Worn as an Outer Garment.
Claims use since about Nov. 15, 1921.

Ser. No. 158,354. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE AMERICAN BRASS COMPANY, Waterbury, Conn. Filed Jan. 24, 1922.

AMBRAC

Particular description of goods.—Cast, Drawn, Rolled, Extruded, Pressed, and Machined Nonferrous Metals and Alloys and Ingots, Castings, Sheets, Rolls, Wire, Strips, Rods, and Tubes Made from Such Metals and Alloys.
Claims use since Sept. 8, 1921.

Ser. No. 158,418. (CLASS 39. CLOTHING.) JOHN DAVID, New York, N. Y. Filed Jan. 25, 1922.



Particular description of goods.—Men's Hats, Overcoats, Suits, Raincoats, Sweaters, Vests, Coats, Trousers, Knickerbockers, and Jackets.
Claims use since May 1, 1921.

Ser. No. 158,473. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GERB-UND FARBSTOFFWERKE H. RENNER & CO. ACTIEN-GESELLSCHAFT, Hamburg, Germany. Filed Jan. 26, 1922.

CARBATAN

Particular description of goods.—Solid and Liquid Tanning Extracts.
Claims use since 1914.

Ser. No. 158,619. (CLASS 39. CLOTHING.) KEET & ROUNTREE DRY GOODS COMPANY, Springfield, Mo. Filed Jan. 30, 1922.



The rectangular background of mark is indicated in red. The diamond-shaped center is shown as having a blue background. The lettering is white.
Particular description of goods.—Overalls, Work Shirts, Jumpers, Duck Coats, Khaki Coats, Corduroy Coats, Duck Pants, Khaki Pants, and Corduroy Pants.
Claims use since May 1, 1918.

Ser. No. 158,674. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FORD & MANION, INC., Wilmington, Del. Filed Jan. 31, 1922.



Particular description of goods.—Electric Heaters for Heating Liquids.
Claims use on or about Aug. 1, 1921.

Ser. No. 158,687. (CLASS 39. CLOTHING.) JACOB MILLER SONS & CO., Philadelphia, Pa. Filed Jan. 31, 1922.

Hillandale

Particular description of goods.—Men's Outer Shirts of Silk, Linen, Cotton, Mixtures of Silk and Linen and of Silk and Cotton.
Claims use since Jan. 24, 1922.

Ser. No. 158,876. (CLASS 39. CLOTHING.) LAWRENCEBURG OVERALL MFG. CO., Lawrenceburg, Ind. Filed Feb. 4, 1922.

ECHO

Particular description of goods.—Overalls, Jackets, and Work Shirts.
Claims use since May, 1921.

Ser. No. 158,934. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MILLER TRACTION TREAD COMPANY, Chicago, Ill. Filed Feb. 6, 1922.

TracTred

Particular description of goods.—Tractors and Parts Thereof.
Claims use since Nov. 1, 1921.

Ser. No. 159,116. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 9, 1922.

"SEAL-TEX"

Trade-mark, "Seal-Tex."
Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.
Claims use since Jan. 4, 1922.

Ser. No. 159,131. (CLASS 39. CLOTHING.) WASSERMAN & GOLDSMITH, New York, N. Y. Filed Feb. 9, 1922.

PROSPECT

Particular description of goods.—Ladies', Men's, and Children's Hose; Ladies' and Children's Vests and Pants; Ladies', Men's, Girls', and Boys' Knitted Union Suits; Men's and Boys' Knitted Shirts and Drawers, Men's and Boys' Knitted Bathing Suits, Men's and Boys' Nainsook Shirts, Drawers, and Union Suits; Men's Dress and Work Shirts, Men's and Ladies' Sweaters; Men's, Ladies', Boys', and Girls' Knitted and Leather Gloves, and Men's and Boys' Khaki Pants.
Claims use since Dec. 1, 1914.

Ser. No. 159,148. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Feb. 10, 1922.



Particular description of goods.—Safety-Razor Blades.
Claims use since about the middle of 1906.

Ser. No. 159,163. (CLASS 39. CLOTHING.) THE MENTER CO. INC., New York, N. Y. Filed Feb. 10, 1922.

BOVOL

Particular description of goods.—Coats, Vests, Trousers, and Overcoats.
Claims use since Aug. 10, 1921.

Ser. No. 159,191. (CLASS 37. PAPER AND STATIONERY.) VAN DE CARR PAPER COMPANY, Stockport, N. Y. Filed Feb. 10, 1922.

CARDEVAN

Trade-mark, "Cardevan."
Particular description of goods.—Paper for Wrapping and Packing Purposes.
Claims use since June 20, 1921.

Ser. No. 159,218. (CLASS 39. CLOTHING.) THE PARSONS & BAKER CO., Phoenixville, Pa. Filed Feb. 11, 1922.



Criterion

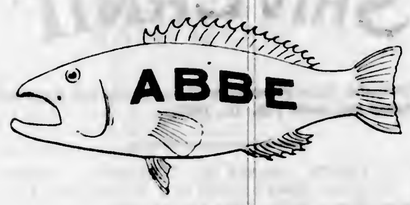
Particular description of goods.—Ladies' Underwear.
Claims use since August, 1921.

Ser. No. 159,222. (CLASS 37. PAPER AND STATIONERY.) MINNIE L. STOUGHTON, Camden, N. J. Filed Feb. 11, 1922.

MORWARE

Particular description of goods.—Book Covers.
Claims use since Jan. 23, 1922.

Ser. No. 159,239. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HANS ANDERSON, Oakland, Calif. Filed Feb. 13, 1922.



Particular description of goods.—Carpenters' Planes.
Claims use since Jan. 30, 1922.

Ser. No. 159,276. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WANDA MESSAGE, doing business as Massage Laboratory, Chicago, Ill. Filed Feb. 13, 1922.



Particular description of goods.—Medicinal Bath Compound for Skin Diseases and Rheumatic Pains.
Claims use since Jan. 27, 1922.

Ser. No. 159,307. (CLASS 39. CLOTHING.) CHAS. R. DE BEVOISE CO., Newark, N. J. Filed Feb. 14, 1922.

YOUTHSWAY

Particular description of goods.—Brassières.
Claims use since Dec. 10, 1921.

Ser. No. 159,363. (CLASS 39. CLOTHING.) LOUISVILLE FURNISHING GOODS CO., Louisville, Ky. Filed Feb. 15, 1922.



Particular description of goods.—Boys' Overalls and Men's Work Shirts.
Claims use since Jan. 19, 1922.

Ser. No. 159,415. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DONALD N. GILPIN, doing business as The Kro-Ko Corporation, Baltimore, Md. Filed Feb. 16, 1922.



No claim is made to the use of the printed matter appearing on the drawing except the words "Kro Ko" apart from mark shown. The circle forming background for the printed matter comprising trade-mark is lined for red, indicating a red coloration in the display of this portion of the trade-mark.
Particular description of goods.—Insecticides.
Claims use since Jan. 21, 1922.

Ser. No. 159,456. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Feb. 17, 1922.

O. N. S.

Particular description of goods.—Corsets, Corset Waists, Brassières, Bandeaux, Hose Supporters, and Men's and Women's Textile-Fabric Underwear.
Claims use since Feb. 1, 1922.

159,468. (CLASS 39. CLOTHING.) THE KABO COMPANY, Chicago, Ill. Filed Feb. 17, 1922.

Flatter-U

Particular description of goods.—Brassières and Corsets.
Claims use since Jan. 6, 1922.

Ser. No. 159,500. (CLASS 39. CLOTHING.) CHAS. R. DE BEVOISE CO., Newark, N. J. Filed Feb. 18, 1922.

Surfway

Particular description of goods.—Bandeaux.
Claims use since Feb. 4, 1922.

Ser. No. 159,535. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOLAR ELECTRIC COMPANY, Chicago, Ill. Filed Feb. 18, 1922.

HANSLICK

Particular description of goods.—Soap.
Claims use since on or about May 12, 1921.

Ser. No. 159,549. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BEARDSLEY & PIPER COMPANY, Chicago, Ill. Filed Feb. 20, 1922.

SAND SLINGER

Particular description of goods.—Machines for Making Molds for Founding.
Claims use since Sept. 16, 1920.

Ser. No. 159,637. (CLASS 39. CLOTHING.) UTICA INFANT WEAR CORP., Utica, N. Y. Filed Feb. 20, 1922.

Diapant

Particular description of goods.—Diapers.
Claims use since Sept. 1, 1921.

Ser. No. 159,656. (CLASS 39. CLOTHING.) IDEAL LINEN MESH CO., Poughkeepsie, N. Y. Filed Feb. 21, 1922.

SHIVERNIT

Particular description of goods.—Shawls and Sweaters.
Claims use since Feb. 15, 1922.

Ser. No. 159,670. (CLASS 39. CLOTHING.) GARRETT P. VAN LOPIK, doing business as G. P. Van Lopik & Co., Grand Haven, Mich. Filed Feb. 21, 1922.

Dorothy Jane

Particular description of goods.—Misses' and Children's Dresses.
Claims use since March, 1921.

Ser. No. 159,737. (CLASS 39. CLOTHING.) WESTERN GARMENT MFG. COMPANY, Salt Lake City, Utah. Filed Feb. 23, 1922.

ROSANA

Particular description of goods.—Ladies' Coats, Suits, Made Partly or Wholly of Wool, Cotton, or Silk; Ladies' Aprons, Dresses, Made Partly or Wholly of Cotton, Wool, or Silk; Ladies' Union Suits, Bloomers, Chemises, Vests, Nightgowns, Petticoats, Waists, Kimonos, Middies, Made Partly or Wholly of Cotton or Silk; Children's Dresses, Bloomers, Vests, Made Partly or Wholly of Cotton or Silk; Bath Robes for Men, Women, and Children, Made Partly or Wholly of Cotton or Wool; Overalls for Men, Women, and Children, Made of Cotton, and Shirts for Men and Boys, Made Partly or Wholly of Cotton or Silk.
Claims use since Jan. 3, 1922.

Ser. No. 159,744. (CLASS 39. CLOTHING.) CHAS. R. DE BEVOISE CO., Newark, N. J. Filed Feb. 24, 1922.

WILLOWAY

Particular description of goods.—Brassières.
Claims use since Dec. 10, 1921.

Ser. No. 159,779. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEORGE J. BURNS, Youngstown, Ohio. Filed Feb. 25, 1922.

TRUSCO

Particular description of goods.—Fuel-Feeding Apparatus for Internal-Combustion Engines.
Claims use since Aug. 1, 1921.

Ser. No. 159,856. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ESTATE OF A. C. DECKER, doing business as Decker Manufacturing Company, Keokuk, Iowa. Filed Feb. 27, 1922.

NEVER ROOT

Particular description of goods.—Implement for Applying Rings to Noses of Animals.
Claims use since Jan. 28, 1922.

Ser. No. 159,871. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ANTHONY JEMIELITA, New York, N. Y. Filed Feb. 27, 1922.



Anthony Jemielita

The portrait and signature shown in drawing are the facsimiles of the picture and signature of applicant.
Particular description of goods.—Electrical Generators.
Claims use since Jan. 2, 1922.

Ser. No. 159,914. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SAMUEL W. AKINS, doing business as B. B. Transmission Wood Lining Co., Denver, Colo. Filed Feb. 28, 1922.

BB

No claim made to representation of brake band apart from mark shown. Trade-mark comprises letters "B B" surrounded by representation of brake band.
Particular description of goods.—Wood Brake Linings and Wood Transmission Linings.
Claims use since Oct. 3, 1921.

Ser. No. 159,920. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CALIFORNIA BOTTLING CO., Brooklyn, N. Y. Filed Feb. 28, 1922.

CLICK

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making Same.
Claims use since Feb. 1, 1920.

Ser. No. 159,970. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JORDAN MARSH COMPANY, Boston, Mass. Filed Feb. 28, 1922.

"Avona"

Particular description of goods.—Rotary Sifters.
Claims use since Aug. 15, 1921.

Ser. No. 160,049. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CORN PRODUCTS REFINING CO., New York, N. Y. Filed Mar. 2, 1922.

LINIT

Particular description of goods.—Laundry Starch.
Claims use since Feb. 21, 1922.

Ser. No. 160,071. (CLASS 11. INKS AND INKING MATERIALS.) MISSION BEAD COMPANY, Los Angeles, Calif. Filed Mar. 2, 1922.

Mission

Particular description of goods.—Writing Ink.
Claims use since Sept. 1, 1920.

Ser. No. 160,084. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. PAUL SUESS, Williamsport, Pa. Filed Mar. 2, 1922.

CYDO-GLYCIN

Particular description of goods.—Remedy for Chapped Hands, Salt Rheum, Chafing, and Sunburn.
Claims use since October, 1890.

Ser. No. 160,141. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN H. KRUMBEIN, doing business as Petsy Manufacturing Company, Baltimore, Md. Filed Mar. 3, 1922.

PETSY

Particular description of goods.—Hair Restorer.
Claims use since Jan. 25, 1922.

Ser. No. 160,157. (CLASS 12. CONSTRUCTION MATERIALS.) W. H. SALISBURY & COMPANY, INCORPORATED, Chicago, Ill. Filed Mar. 3, 1922.

Velvet

Particular description of goods.—Rubber Tiling for Floors.
Claims use since about January, 1912.

Ser. No. 160,206. (CLASS 37. PAPER AND STATIONERY.) THE ROLLER PRINTING AND PAPER CO., Canton, Ohio. Filed Mar. 4, 1922. Under ten-year proviso.

THE ROLLER PRINTING AND PAPER CO CANTON OHIO

Particular description of goods.—Blank Paper, Blank Envelopes, Paper Tablets, Shipping Labels, Invoices, Printed Letterheads, Printed Envelopes, and Blank Books.
Claims use since 1890.

Ser. No. 160,207. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) RAILWAY LOCK-SPIKE COMPANY, Atlanta, Ga. Filed Mar. 4, 1922.

RALOX

Particular description of goods.—Railway Tie Plates.
Claims use since Aug. 3, 1921.

Ser. No. 160,261. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTON ROESCH, doing business as Mi Chemical Co., Chicago, Ill. Filed Mar. 6, 1922.

KAROLA

Particular description of goods.—Antiseptic Healing Oil.
Claims use since January, 1914.

Ser. No. 160,266. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL B. TIZZARD, doing business as Solacene, Los Angeles, Calif. Filed Mar. 6, 1922.

SOLACENE

Particular description of goods.—Liniment for External Application for Dressing Wounds, Scalds, Burns, Cuts, Sunburns, Bruises, Blisters, Hives, Sprains, Stiff Neck, Running Sores, Soreness and Tightness of the Chest, Soreness of the Bowels, Croup, Rheumatism, Headache, Neuralgia, Earache, Toothache, Bleeding After Extraction of Teeth, Frostbites, Poisoned Wounds, Ivy Poison, Insect Stings and Bites of Any Kind, Parasitic Infections.
Claims use since May 15, 1903.

Ser. No. 160,452. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED WEST, St. Louis, Mo. Filed Mar. 9, 1922.

Vita-Salt

No claim is made to use of word "Salt" apart from mark shown.
Particular description of goods.—Table Salt.
Claims use since Mar. 2, 1922.

Ser. No. 160,497. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KOMO CHEMICAL COMPANY, Philadelphia, Pa. Filed Mar. 10, 1922.

KOMO

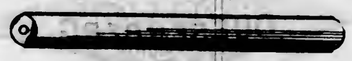
Particular description of goods.—Fly Liquids, Roach Powders, Liquid Sprays, Said Powders and Sprays Being Adapted for Dusting and Atomizing Throughout Houses, Stables, and Other Places Where Flies and Other Insects are Found for the Purpose of Destroying Same.
Claims use since June, 1912.

Ser. No. 160,518. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) TENNESSEE EASTMAN CORPORATION, Kingsport, Tenn. Filed Mar. 10, 1922.

TEC-CHAR

Particular description of goods.—Charcoal Not Specially Prepared for Decolorizing or Deodorizing.
Claims use since Feb. 17, 1921.

Ser. No. 160,534. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BOSTON INSULATED WIRE & CABLE CO., Boston, Mass. Filed Mar. 11, 1922.



No claim is made to representation of the wire shown in drawing. Trade-mark consists of two longitudinal ridges embossed on the insulation of wire or cable substantially 180 degrees apart.
Particular description of goods.—Electric Conductors, Wires, and Cables.
Claims use since Jan. 1, 1916.

Ser. No. 160,538. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES DILLA, Chicago, Ill. Filed Mar. 11, 1922.



Trade-mark is the applicant's own likeness.
Particular description of goods.—Preparation for the Treatment of Stomach, Bowels, Kidney, and Heart Trouble.
Claims use since about Feb. 1, 1922.

Ser. No. 160,546. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GREENBAUM COMPANY, Louisville, Ky. Filed Mar. 11, 1922.

NAFTALAN LANAFTAL

Particular description of goods.—Medicated Healing Ointment or Salve.
Claims use since Mar. 1, 1921.

Ser. No. 160,548. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GEHMAN & WEINERT, Newark, N. J. Filed Mar. 11, 1922.

G-W

Particular description of goods.—Electrical Apparatus, More Particularly Tuning-Coil Sliders.
Claims use since on or about Feb. 1, 1922.

Ser. No. 160,623. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NORRIS BROS. INC., Robinson, Ill. Filed Mar. 13, 1922.

NO-CO-RO

Particular description of goods.—Balls and Seats and Drops for Oil-Well Valves.
Claims use since Apr. 30, 1921.

Ser. No. 160,652. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JACOB BACHMANN, doing business as J. Bachmann & Co., New York, N. Y. Filed Mar. 14, 1922.

MANATI

Trade-mark "Manati."
Particular description of goods.—Leather Belting.
Claims use since about Feb. 15, 1922.

Ser. No. 160,735. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAY E. WHITE, La Fargeville, N. Y. Filed Mar. 15, 1922.



Trade-mark is a picture of applicant.
Particular description of goods.—Ointment for Treatment of Piles, Cuts, Sores, Burns, Frostbites, Sunburn, Corns, Skin Eruptions, Caked Udder, Garget Galls, and Collar Boils.
Claims use since Jan. 1, 1922.

Ser. No. 160,758. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE GLAZIER MFG. COMPANY, South Glastonbury, Conn. Filed Mar. 16, 1922.

LOCHMOOR

Trade-mark "Lochmoor."
Particular description of goods.—Woolen Piece Goods.
Claims use since Mar. 6, 1922.

Ser. No. 160,827. (CLASS 37. PAPER AND STATIONERY.) THE MOORE PEN COMPANY, Boston, Mass. Filed Mar. 17, 1922.

MOORERITE

Trade-mark "Moorerite."
Particular description of goods.—Fountain Pens and Lead Pencils.
Claims use since Nov. 17, 1921.

Ser. No. 160,839. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILSON PILE CURE CO., Wilson, N. C. Filed Mar. 17, 1922.

DRAKE'S



The picture in trade-mark is a photograph of one of the members of the firm, Jas. N. Drake.
Particular description of goods.—Medicinal Compound for the Treatment of Piles, Sore Feet, and Sores.
Claims use since Nov. 5, 1921.

Ser. No. 160,877. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DUESENBERG AUTOMOBILE & MOTORS CO. INC., Indianapolis, Ind. Filed Mar. 18, 1922.



No claim to word and numeral, "Straight 8."
Particular description of goods.—Motor Cars.
Claims use since Nov. 1, 1920.

Ser. No. 160,933. (CLASS 31. FILTERS AND REFRIGERATORS.) EDWARD ECKL, Los Angeles, Calif. Filed Mar. 20, 1922.

TRADE MARK
ICICLE
REFRIGERATOR CO.
LOS ANGELES, CAL.

No claim is made to the words "Trade Mark," "Refrigerator Co.," and "Los Angeles, Cal."
Particular description of goods.—Refrigerators.
Claims use since Jan. 1, 1922.

Ser. No. 160,971. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PRIMROSE SILK STORES, INC., New York, N. Y. Filed MAR. 20, 1922.

Primrose Silks



Particular description of goods.—Silks in the piece.
Claims use since Mar. 1, 1922.

Ser. No. 160,975. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) RAILWAY AND MINE SUPPLY COMPANY, Kincaid, Ill. Filed Mar. 20, 1922.

RAMSCO

Particular description of goods.—Industrial and Mine Cars and Roller-Bearing Trucks, Motor and Horse Drawn, and Wheels and Axles.
Claims use since May 1, 1920.

Ser. No. 160,990. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PETER AMSTERDAM, trading as The Amsterose Co., Philadelphia, Pa. Filed Mar. 21, 1922.

SHAWELL

Particular description of goods.—Preparation Used for Shaving Cream and Chapped Skin.
Claims use since Feb. 1, 1921.

Ser. No. 160,997. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH CROSFIELD & SONS, LIMITED, Warrington, England. Filed Mar. 21, 1922.

CARBOSIL

Particular description of goods.—Bleaching and Water-Softening Preparation.
Claims use since Aug. 22, 1900.

Ser. No. 161,007. (CLASS 17. TOBACCO PRODUCTS.) LE FRANCIS CIGAR COMPANY, Cambridge, Mass. Filed Mar. 21, 1922.

NORTHERN LIGHT

Particular description of goods.—Cigars.
Claims use since May 1, 1888.

Ser. No. 161,043. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Filed Mar. 22, 1922.



The lining on drawing is to indicate the color red.
Particular description of goods.—Rubber Vehicle Tires.
Claims use since Mar. 1, 1922.

Ser. No. 161,225. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

WINDLASS

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,242. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EVERETT ELECTRIC CORPORATION, New York, N. Y. Filed Mar. 25, 1922.



Particular description of goods.—Head Receivers, Condensers, Transformers, Detectors, Radio Receiving Sets, and Parts Thereof.
Claims use since on or about Mar. 21, 1922.

Ser. No. 161,301. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CLEVELAND METAL PRODUCTS COMPANY, Cleveland, Ohio. Filed Mar. 27, 1922.

SUPERFEX

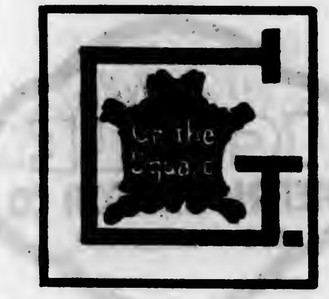
Particular description of goods.—Oil Stoves, Oil Burners, Oil Water Heaters, and Ovens for Oil Stoves.
Claims use since about Mar. 1, 1922.

Ser. No. 161,329. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MARRET, BONNIN, LEBEL & GUIEC, Paris, France. Filed Mar. 27, 1922.

TINTOR

Trade-mark consists of invented word "Tintor."
Particular description of goods.—Alloys for Use in the Manufacture of Jewelry and Jewelers' Goods.
Claims use since Sept. 1, 1921.

Ser. No. 161,434. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILLIAM GRAHAM, New York, N. Y. Filed Mar. 29, 1922.



No claim is made to exclusive use of the representation of the stretched hide apart from the mark as shown.
Particular description of goods.—Leather—viz, Bends, Blocks, Strips, and Offal.
Claims use since Mar. 2, 1922.

Ser. No. 161,505. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEW ENGLAND COMMERCIAL CO., New York, N. Y. Filed Mar. 30, 1922.



Trade-mark consists of Arab holding horse in the foreground of a desert scene in connection with the words "Arabian Head," the entire design being surrounded by a fanciful border.
Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 9, 1922.

Ser. No. 161,537. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Mar. 31, 1922.



The words "Alarm Clocks" do not form a part of registration sought apart from mark shown. The picture of man in drawing is fanciful.
Particular description of goods.—Alarm Clocks.
Claims use since 1901.

Ser. No. 161,629. (CLASS 38. PRINTS AND PUBLICATIONS.) JOURNAL COMPANY, INCORPORATED, Detroit, Mich. Filed Apr. 1, 1922.

CHANDLER RICHARD LAURENCE.

Trade-mark is a nom de plume of the applicant.
Particular description of goods.—Newspaper Section.
Claims use since Feb. 1, 1921.

Ser. No. 161,633. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL METADIER, Tours, France. Filed Apr. 1, 1922.

MÉTASPIRINE

Particular description of goods.—Analgesic Tablets for Headache, Neuralgia, Rheumatism, Grippe, Fever, Fatigue, etc.
Claims use since Nov. 9, 1914.

Ser. No. 161,635. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 1, 1922.

ANOLIDE

Particular description of goods.—Coal-Tar Chemicals or Intermediates, Rubber Accelerators or Catalysers, Rubber-Compounding Ingredients, and Flotation Agents.
Claims use since Feb. 7, 1922.

Ser. No. 161,636. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 1, 1922.

PARYLINE

Particular description of goods.—Coal-Tar Chemicals or Intermediates, Rubber Accelerators or Catalysers, Rubber-Compounding Ingredients, and Flotation Agents.
Claims use since Feb. 8, 1922.

Ser. No. 161,637. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 1, 1922.

PHENALDINE

Particular description of goods.—Coal-Tar Chemicals or Intermediates, Rubber Accelerators or Catalysers, Rubber-Compounding Ingredients, and Flotation Agents.
Claims use since Feb. 13, 1922.

Ser. No. 161,638. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 1, 1922.

THANILIDE

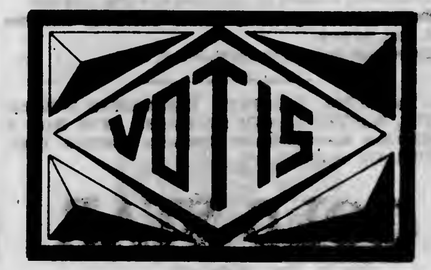
Particular description of goods.—Coal-Tar Chemicals or Intermediates, Rubber Accelerators or Catalysers, Rubber-Compounding Ingredients, and Flotation Agents.
Claims use since Feb. 6, 1922.

Ser. No. 161,639. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 1, 1922.

TRENYLINE

Particular description of goods.—Coal-Tar Chemicals or Intermediates, Rubber Accelerators or Catalysers, Rubber-Compounding Ingredients, and Flotation Agents.
Claims use since Feb. 6, 1922.

Ser. No. 161,647. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH RADKEVICH, Waterbury, Conn. Filed Apr. 1, 1922.



Particular description of goods.—Healing Salve.
Claims use since Aug. 15, 1921.

Ser. No. 161,654. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN T. STANLEY CO. INC., New York, N. Y. Filed Apr. 1, 1922.

Kan-Nu

Particular description of goods.—Oil Soap.
Claims use since Feb. 1, 1922.

Ser. No. 161,715. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ABNER-DRURY COMPANY, Washington, D. C. Filed Apr. 4, 1922.

ABNER AD DRURY

Particular description of goods.—Ginger Ale.
Claims use since Mar. 14, 1922.

Ser. No. 161,729. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE HART & HEGEMAN MANUFACTURING COMPANY, Hartford, Conn. Filed Apr. 4, 1922.



Trade-mark consists of representation of a gold star.
Particular description of goods.—Electrical Switches and Pull Sockets.
Claims use since on or about Dec. 7, 1921.

Ser. No. 161,730. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE HART & HEGEMAN MANUFACTURING COMPANY, Hartford, Conn. Filed Apr. 4, 1922.

GOLD STAR

Particular description of goods.—Electrical Switches and Pull Sockets.
Claims use since on or about Dec. 7, 1921.

Ser. No. 161,749. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK RYAN, trading as the Oriole Belt Dressing Co., Baltimore, Md. Filed Apr. 4, 1922.

ORIOLE

Particular description of goods.—Belt Dressing.
Claims use since about Jan. 20, 1922.

Ser. No. 161,783. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LOYD WIRELESS TELEPHONE CORPORATION, Dover, Del. Filed Apr. 5, 1922.

VOCAPHONE

Particular description of goods.—Wireless Transmitting and Receiving Apparatus.
Claims use since Mar. 26, 1922.

Ser. No. 161,790. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) PAGE-LEWIS ARMS COMPANY, Chicopee Falls, Mass. Filed Apr. 5, 1922.



No claim to words "Single Shot Rifles" or to "Chicopee Falls, Mass. U. S. A." apart from mark shown.
Particular description of goods.—Rifles.
Claims use since Feb. 1, 1922.

Ser. No. 161,803. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING CO., Danvers, Mass. Filed Apr. 5, 1922.

RED SEAL BRAND

No claim to word "Brand" apart from mark shown; but applicant waives none of its common-law rights in said mark or any element thereof.
Particular description of goods.—Wax and Chalk Crayons.
Claims use since 1902.

Ser. No. 161,833. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) PHILIP H. GUNDERMANN, doing business as Atlas Torch Mfg. Co., Chicago, Ill. Filed Apr. 6, 1922.



No claim is made to the words "Atlas Torch Mfg. Co., Chicago, Ill., U. S. A." apart from the mark shown.
Particular description of goods.—Plumbers' Torches.
Claims use since Mar. 28, 1922.

Ser. No. 161,839. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WALTER JAMRO, Manchester, N. H. Filed Apr. 6, 1922.



The picture and signature shown are that of applicant.
Particular description of goods.—Electrically-Operated Theft-Preventing Device.
Claims use since Oct. 14, 1921.

Ser. No. 161,846. (CLASS 12. CONSTRUCTION MATERIALS.) MARQUETTE CEMENT MANUFACTURING CO., Chicago, Ill. Filed Apr. 6, 1922.

Marquette

On the drawing the cross lines or shading indicate black and oblique lines or shading indicate green.
Particular description of goods.—Portland Cement.
Claims use since January, 1897.

Ser. No. 161,857. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING CO., Danvers, Mass. Filed Apr. 6, 1922.

VELASQUEZ

Trade-mark consists of surname of deceased Spanish artist, Velasquez.
Particular description of goods.—Wax and Chalk Crayons.
Claims use since 1914.

Ser. No. 161,870. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE ART METAL WORKS, INC., Newark, N. J. Filed Apr. 7, 1922.

RONSON REDSKIN RELOAD



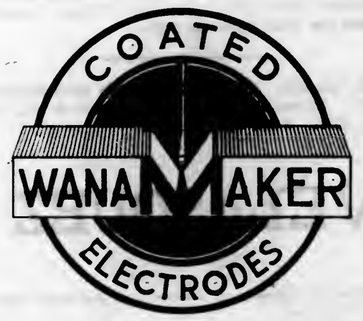
No claim to exclusive use of the word "Reload" apart from the mark.
Particular description of goods.—Pieces of Sparking Metal.
Claims use since Apr. 4, 1922.

Ser. No. 161,882. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FOSTER MILLIKEN, New York, N. Y. Filed Apr. 7, 1922.

"TALKING LAMP"

Trade-mark consists of the words "Talking Lamp."
Particular description of goods.—Electric Street Signaling Lamps.
Claims use since December, 1921.

Ser. No. 162,011. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) INTERNATIONAL WELDING ENGINEERING CORPORATION, Chicago, Ill. Filed Apr. 10, 1922.



The words "Coated Electrodes" are disclaimed apart from mark.
Particular description of goods.—Arc-Welding Metal Electrodes.
Claims use since about Apr. 30, 1920.

Ser. No. 162,080. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WORCESTER ELECTRIC SUPPLY Co., Worcester, Mass. Filed Apr. 10, 1922.



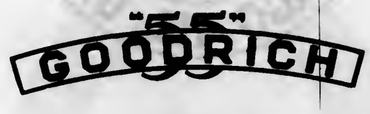
Particular description of goods.—Bicycles.
Claims use since 1921.

Ser. No. 162,106. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) FOSTER, MERRIAM & COMPANY, Meriden, Conn. Filed Apr. 11, 1922.

Bear-Tite

Particular description of goods.—Metallic Piston Rings.
Claims use since Jan. 17, 1922.

Ser. No. 162,167. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Apr. 12, 1922.



Particular description of goods.—Pneumatic-Tire Casings Made of Rubber Combined with Fabric.
Claims use since about February, 1922.

Ser. No. 162,187. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MASTER CHEMICAL Co., Columbus Junction, Iowa. Filed Apr. 12, 1922.

MASTER

Particular description of goods.—Embalming Fluid.
Claims use since May 1, 1921.

Ser. No. 162,225. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAE EDNA WILDER, Rochester, N. Y. Filed Apr. 12, 1922.

HYLAS

Particular description of goods.—Face Cream.
Claims use since Feb. 28, 1922.

Ser. No. 162,227. (CLASS 37. PAPER AND STATIONERY.) E. A. PAUL WOLF CO., New York, N. Y. Filed Apr. 12, 1922.



No claim to words "Loose Leaf Devices" apart from the mark shown.
Particular description of goods.—Loose-Leaf Devices.
Claims use since February, 1922.

Ser. No. 162,260. (CLASS 37. PAPER AND STATIONERY.) NATIONAL BLANK BOOK Co., Holyoke, Mass. Filed Apr. 13, 1922.

Aladdin

Particular description of goods.—Loose-Leaf Binders and Bound Blank Books and Indexes.
Claims use since Mar. 25, 1922.

Ser. No. 162,309. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHERN JOBBING COMPANY, Chicago, Ill. Filed Apr. 14, 1922.

NJC

Particular description of goods.—Lye.
Claims use since Jan. 1, 1915.

Ser. No. 162,359. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES R. SAUNDERS, Chicago, Ill. Filed Apr. 15, 1922.

SOSA

Particular description of goods.—Soap.
Claims use since on or about Feb. 1, 1922.

Ser. No. 162,366. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WITHEROW STEEL COMPANY, Pittsburgh, Pa. Filed Apr. 15, 1922.



Particular description of goods.—Rolled Iron and Steel Blanks and Shapes.
Claims use since Mar. 4, 1922.

Ser. No. 162,367. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WITHEROW STEEL COMPANY, Pittsburgh, Pa. Filed Apr. 15, 1922.



The lining in drawing indicates shading.
Particular description of goods.—Rolled Iron and Steel Blanks and Shapes.
Claims use since Mar. 4, 1922.

Ser. No. 162,388. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. ENELL, doing business as Warren Laboratories, Rochester, N. Y. Filed Apr. 17, 1922.



No claim is made to words "Di Gastric Tablets" apart from mark shown.

Particular description of goods.—Medicine for Stomach Troubles.

Claims use since on or about Jan. 15, 1922.

Ser. No. 162,405. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JOHN W. HANCOCK, doing business as J. W. Hancock Electrical Co., Denver, Colo. Filed Apr. 17, 1922.

COLUMBALITE

Particular description of goods.—Electric-Light Fixtures.

Claims use since Nov. 1, 1921.

Ser. No. 162,417. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL CONSOLIDATED CHEMICAL CORPORATION, INC., doing business as the Dae Health Laboratories, New York, N. Y. Filed Apr. 17, 1922.

Vitamized

Particular description of goods.—Medicinal Preparation for Malassimilation and Nutritional Disorders.

Claims use since Dec. 22, 1921.

Ser. No. 162,452. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RUTLAND FIRE CLAY CO., Rutland, Vt. Filed Apr. 17, 1922. Under Sec. 9 of the act of Mar. 19, 1920.

RUTLAND

Particular description of goods.—Liquid Stove Polish, Metal Polish, Enamel Cleaner, and Waste-Pipe Cleaner.

Claims use since some time in March, 1901.

Ser. No. 162,476. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) P. L. BEARDEN, Dallas, Tex. Filed Apr. 18, 1922.

DUST-ETER

Particular description of goods.—Polishing Cloth.

Claims use in business in State commerce since Mar. 20, 1922; in interstate commerce since Apr. 11, 1922.

Ser. No. 162,616. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PHILIP E. EDELMAN, New York, N. Y. Filed Apr. 20, 1922.

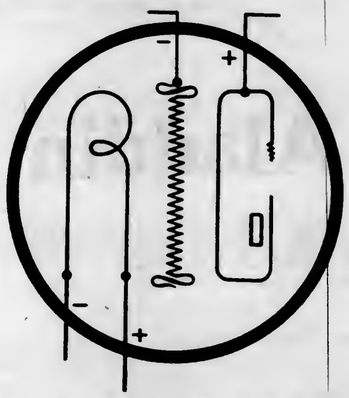
Edelman's Raytainor

No claim to the word "Edelman's" except in connection with the mark.

Particular description of goods.—Complete Loud-Speaking Wireless Receiving Sets, Radio Cabinets, Containing Radio Apparatus Mounted in and on Said Cabinets, Combined Radio and Phonograph Machines, and Wireless Receiving Sets and Parts.

Claims use since Aug. 1, 1921.

Ser. No. 162,669. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BRENT DANIEL, doing business as Radio Instrument Company, Washington, D. C. Filed Apr. 21, 1922.



Particular description of goods.—Radio, Telegraph, and Telephone Transmitting and Receiving Apparatus.

Claims use since Sept. 1, 1920.

Ser. No. 162,767. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PACIFIC CHEMICAL COMPANY, Los Angeles, Calif. Filed Apr. 22, 1922.

HASTY

Particular description of goods.—Hand Soap.

Claims use since Jan. 28, 1922.

Ser. No. 162,810. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EAGLE CHEMICAL COMPANY, Milwaukee, Wis. Filed Apr. 24, 1922.

Zerobac

Particular description of goods.—Cleansing, Sterilizing, and Disinfecting Compound.

Claims use since about Oct. 5, 1921.

Ser. No. 162,840. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MID-WEST MANUFACTURING COMPANY, Minneapolis, Minn. Filed Apr. 24, 1922.

RED DEVIL

Particular description of goods.—Burnishing Compound.

Claims use since Nov. 15, 1921.

Ser. No. 162,857. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SALOMON & WIENER, INC., New York, N. Y. Filed Apr. 24, 1922.



Particular description of goods.—Unmanufactured Fur.

Claims use since Feb. 1, 1922.

Ser. No. 162,903. (CLASS 37. PAPER AND STATIONERY.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Apr. 25, 1922.

SOCONY

Particular description of goods.—Crayons.

Claims use since Feb. 26, 1908.

Ser. No. 162,959. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. G. SPALDING & BROS., New York, N. Y. Filed Apr. 26, 1922.

KRO FLITE

Particular description of goods.—Golf Balls.

Claims use since Mar. 21, 1922.

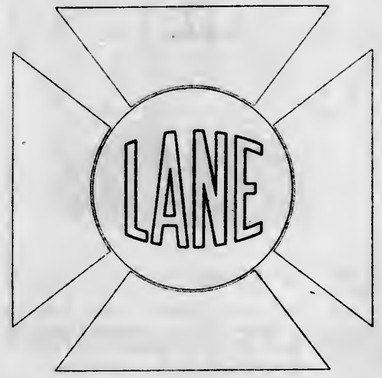
Ser. No. 163,043. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRED WRIGHT HOGUE, McGregor, Iowa. Filed Apr. 28, 1922.

"GUSTO"

Particular description of goods.—Liquid Preparation for Cleaning Rugs, Carpets, Upholstery, and the Like.

Claims use since Dec. 21, 1920.

Ser. No. 163,155. (CLASS 12. CONSTRUCTION MATERIALS.) ARTHUR E. LANE LUMBER CORP., New York, N. Y. Filed May 1, 1922.



Particular description of goods.—Wood Shingles.

Claims use since about 1912.

Ser. No. 163,178. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE RIESER COMPANY, New York, N. Y. Filed May 1, 1922.

Rovina

Particular description of goods.—Hair Nets.

Claims use since May 29, 1920.

Ser. No. 163,181. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE RIEGEL COMPANY, New York, N. Y. Filed May 1, 1922.

PENELA

Particular description of goods.—Hair Nets.
Claims use since May 29, 1920.

Ser. No. 163,228. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MULHENS & KROPFF, INCORPORATED, New York, N. Y. Filed May 2, 1922.

L'OFFRANDE

Particular description of goods.—Toilet Soaps.
Claims use since March, 1922.

Ser. No. 163,273. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALONZO C. HOLLOWAY, Hoisington, Kans. Filed May 3, 1922.



The portrait comprising a part of trade-mark is that of applicant.
Particular description of goods.—Cough Sirup Used in the Treatment of Colds, Croup, Whooping Cough, Asthma, Consumption, and All Kinds of Lung Trouble.
Claims use since Mar. 18, 1922.

Ser. No. 163,280. (CLASS 37. PAPER AND STATIONERY.) WILLIAM MANN COMPANY, Philadelphia, Pa. Filed May 3, 1922.

MANCO

Particular description of goods.—Checks, Check-Book Cases, and Check-Book Covers, and Safety Paper.
Claims use since about Dec. 27, 1921; on safety paper since Mar. 1, 1922.

Ser. No. 163,297. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & WALLS, New York, N. Y. Filed May 3, 1922.

BOCAIRE

Trade-mark "Bocaire."
Particular description of goods.—Shirtings in the Piece Woven from Silk or Cotton or Mixtures of the Same.
Claims use since Apr. 24, 1922.

Ser. No. 163,298. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & STROOCK, INC., New York, N. Y. Filed May 3, 1922.

DOUV=CHINE

Particular description of goods.—Cloth Made of Artificial Silk.
Claims use since Apr. 21, 1922.

Ser. No. 163,388. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 5, 1922.

KISMET

Particular description of goods.—Hair Nets.
Claims use since Mar. 27, 1922.

Ser. No. 163,389. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 5, 1922.

Myro

Particular description of goods.—Hair Nets.
Claims use since Mar. 27, 1922.

Ser. No. 163,390. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 5, 1922.

SWANNETTE

Particular description of goods.—Hair Nets.
Claims use since Mar. 27, 1922.

Ser. No. 163,414. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROYAL LEMON PRODUCTS CO., St. Paul, Minn. Filed May 5, 1922.



Particular description of goods.—Washing Powders.
Claims use since June 15, 1916.

Ser. No. 163,442. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRAIN JUICE COMPANY, Dallas, Tex. Filed May 6, 1922.

TROPI-COLA

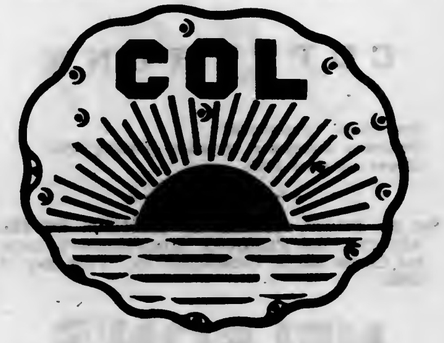
No claim to word "Cola" apart from mark.
Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making Same.
Claims use since Feb. 1, 1921.

Ser. No. 163,490. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ZOLLINGER AND SCHRÖTH, INC., New York, N. Y. Filed May 6, 1922.

VEL DU BARRY

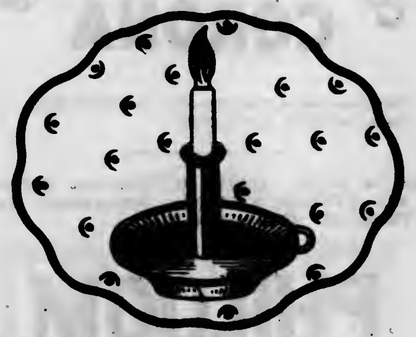
Particular description of goods.—Silk Piece Goods.
Claims use since Apr. 27, 1922.

Ser. No. 163,672. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SARAH A. COLSON and JESSIE L. COLSON, administratrices of the estate of Edwin Colson, Elmer, N. J. Filed May 11, 1922.



Particular description of goods.—Seed Potatoes.
Claims use since Mar. 10, 1922.

Ser. No. 163,682. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. HARRY KANDLE, Elmer, N. J. Filed May 11, 1922.



Particular description of goods.—Seed Potatoes.
Claims use since Apr. 4, 1922.

Ser. No. 163,697. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) PARISIENNE FLAPPER PARASOL COMPANY, Mt. Vernon, Ind. Filed May 11, 1922.

PARISIENNE FLAPPER

Particular description of goods.—Novelty Parasols.
Claims use since Nov. 1, 1921.

Ser. No. 163,725. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) WRIGHT BINDLEY & GELL LIMITED, Sheffield and Birmingham, England. Filed May 11, 1922. Under ten-year proviso.

THE ARMSTRONG

Trade-mark consists of the words "The Armstrong."
Particular description of goods.—Umbrella Ribs and Stretchers of Steel or Iron.
Claims use since Nov. 18, 1884.

Ser. No. 163,727. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I. Filed May 12, 1922. Under ten-year proviso.

CUTTYHUNK

Trade-mark "Cuttyhunk."
Particular description of goods.—Fishing Line.
Claims use since 1850.

Ser. No. 163,820. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUGH NELSON'S COLUMBIA CARPET MILLS, Philadelphia, Pa. Filed May 13, 1922.

NELSON'S
COLUMBIA CARPET MILLS
CORONA

Particular description of goods.—Axminster Rugs.
Claims use since Apr. 3, 1922.

Ser. No. 163,893. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PHILIPSBORN'S INC., Chicago, Ill. Filed May 15, 1922.

PHILOOM

Particular description of goods.—Silk Taffetas and Satin Messalines in the Piece.
Claims use since Apr. 1, 1922.

Ser. No. 163,903. (CLASS 12, CONSTRUCTION MATERIALS.) THOMAS MOULDING BRICK COMPANY, Chicago, Ill. Filed May 15, 1922.

T-M-B
FLOORING

No claim to exclusive use of word "Flooring" apart from mark.
Particular description of goods.—Mastic Flooring.
Claims use since 1917.

Ser. No. 163,937. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABRAHAM MELL, New York, N. Y. Filed May 16, 1922.

Green River

Particular description of goods.—Hair Tonic.
Claims use since Mar. 9, 1922.

Ser. No. 163,953. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VICTOR-MONAGHAN COMPANY, Greenville, S. C. Filed May 16, 1922.

SENECA

Trade-mark "Seneca."
Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 13, 1918.

Ser. No. 164,027. (CLASS 37. PAPER AND STATIONERY.) EUGENE DIETZGEN COMPANY, Chicago, Ill. Filed May 18, 1922.

EDCO

Particular description of goods.—Lead Pencils.
Claims use since Feb. 12, 1922.

Ser. No. 164,061. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER SONS & Co., Philadelphia, Pa. Filed May 18, 1922.

DECORAY

Particular description of goods.—Cotton Goods, Silk Goods, Linen Goods, and Mixtures of Cotton and Silk and Linen and Silk, All in the Piece.
Claims use since May 5, 1922.

Ser. No. 164,062. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER SONS & Co., Philadelphia, Pa. Filed May 18, 1922.

TWEEDTEX

Particular description of goods.—Cotton Goods, Silk Goods, Linen Goods, and Mixtures of Cotton and Silk and Linen and Silk, All in the Piece.
Claims use since May 11, 1922.

Ser. No. 164,063. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER SONS & Co., Philadelphia, Pa. Filed May 18, 1922.

ECRUSHEEN

Particular description of goods.—Cotton Goods, Silk Goods, Linen Goods, and Mixtures of Cotton and Silk and Linen and Silk, All in the Piece.
Claims use since May 9, 1922.

Ser. No. 164,113. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORRIS, MANN & REILLY, INC., Chicago, Ill. Filed May 19, 1922.

M.M.R

Particular description of goods.—Hair Nets.
Claims use since April 15, 1922.

Ser. No. 164,121. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & Co., New York, N. Y. Filed May 19, 1922.

BEAUTY

Particular description of goods.—Snapping Mottoes.
Claims use since 1916.

Ser. No. 164,124. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & Co., New York, N. Y. Filed May 19, 1922.

LEADER

Particular description of goods.—Snapping Mottoes.
Claims use since January, 1921.

Ser. No. 164,166. (CLASS 37. PAPER AND STATIONERY.) INTERNATIONAL PAPER COMPANY, New York, N. Y. Filed May 20, 1922.

IPCO

Particular description of goods.—Paper Used for Writing and Printing Purposes.
Claims use since Apr. 22, 1922.

Ser. No. 164,170. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) F. W. KLINGER AND LANGBEIN Co., Philadelphia, Pa. Filed May 20, 1922.

Common Sense

Particular description of goods.—Fishing-Fly Books.
Claims use since about Jan. 1, 1913.

Ser. No. 164,250. (CLASS 37. PAPER AND STATIONERY.) CHARLES F. HUBBS & COMPANY, New York, N. Y. Filed May 22, 1922.

RAPWELL
KRAFT

Particular description of goods.—Wrapping Paper.
Claims use since 1920.

Ser. No. 164,251. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ITEN BISCUIT CO., Clinton, Iowa. Filed May 22, 1922.

FAIRY

Particular description of goods.—Soda Crackers.
Claims use since 1905.

Ser. No. 164,306. (CLASS 37. PAPER AND STATIONERY.) J. C. BLAIR COMPANY, Huntingdon, Pa. Filed May 23, 1922.



Particular description of goods.—Paper for Writing and Printing Purposes, Drawing Paper, Pencil Paper, Envelopes for Correspondence, Writing, Pencil, Drawing, and Spelling Tablets, and Blank Books.
Claims use since February, 1922.

Ser. No. 164,327. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 23, 1922.

HOOSIER

Particular description of goods.—Paper and Envelopes.
Claims use since November, 1908.

Ser. No. 164,361. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive representation to the fish and line nor to the words "Brand," "Quality First," "Extra Finish," "Braided Cotton Line," "No Trout," or "50 Ft." apart from the mark shown.
Particular description of goods.—Braided Cotton Fishing Lines.
Claims use since July 29, 1919.

Ser. No. 164,366. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words "Standard Bait Casting Japan Silk," "Strong and Durable," "50 Yds.," "Waterproof," "For Lake or Stream," "No.," or "Test" apart from mark shown.
Particular description of goods.—Japan-Silk Waterproof Fishing Lines.
Claims use since May, 1916.

Ser. No. 164,368. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO., INC., Cortland, N. Y. Filed May 24, 1922.



No claim to the exclusive use of the representation of a fish and line nor to the words "Brand," "Selected Quality Japan Silk," "Peerless Process," "Enameled Line," "Flexible," "Durable," or "Quality First," apart from the mark.
Particular description of goods.—Enameled Japan-Silk Fishing Lines.
Claims use since June 8, 1920.

Ser. No. 164,370. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive representation of a fish and line nor to the words "Selected Quality Japan Silk," "Peerless Process," "Brand," "Enameled Line," "Flexible," "Durable," or "Quality First," apart from the mark.
Particular description of goods.—Enameled Japan-Silk Fishing Lines.
Claims use since Sept. 5, 1919.

Ser. No. 164,371. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of representation of a fish and line nor to the words "Brand," "Oiled Silk Line," "No. 4," "25 Yds.," or "Quality First" apart from mark.
Particular description of goods.—Oiled-Silk Fishing Lines.
Claims use since June 25, 1919.

Ser. No. 164,374. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of representation of a fishing line nor to words "Brand," "First Quality of Japan Silk," "Pressure Processed," "Braided Silk," "Enameled Silk Fly Line," or "Quality First," apart from mark.
Particular description of goods.—Braided Japan-Silk Enameled Fishing Lines.
Claims use since June 24, 1916.

Ser. No. 164,385. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words "A Pure Silk Line for Lake or Stream," or "Extra Quality" apart from mark shown.
Particular description of goods.—Pure-Silk Fishing Lines.
Claims use since Apr. 20, 1916.

Ser. No. 164,387. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words "A Hard Braid Bait Casting Line" or "Pure Japan Silk," apart from mark shown.

Particular description of goods.—Pure-Japan-Silk Fishing Lines.

Claims use since May 3, 1916.

Ser. No. 164,390. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim made to exclusive use of words "Strictly High Grade Casting Line," "50 Yds.," "No.," or "Test" apart from the mark shown.

Particular description of goods.—Fishing Lines.

Claims use since May 19, 1916.

Ser. No. 164,494. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) COHN & ROSENBERGER, INC., New York, N. Y. Filed May 25, 1922.

Collegiate

Particular description of goods.—Bracelets.

Claims use since Jan. 1, 1922.

Ser. No. 164,556. (CLASS 31. FILTERS AND REFRIGERATORS.) GEORGE GRANT PETERSON, East Providence, R. I. Filed May 26, 1922.



Trade-mark consists of the representation of an iceberg.

Particular description of goods.—Ice-Cream Cabinets.

Claims use since Apr. 22, 1922.

Ser. No. 164,722. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORA L. SCOVIL, New York, N. Y. Filed May 31, 1922.

PIN PERSONALITIES

Particular description of goods.—Dolls.

Claims use since May 24, 1922.

Ser. No. 164,789. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) REEVES COAL AND DOCK CO., Minneapolis, Minn. Filed June 1, 1922.

NIGGERHEAD COAL

No claim is made to the word "Coal" except as associated with rest of mark.

Particular description of goods.—Coal.

Claims use since Oct. 1, 1910.

Ser. No. 165,080. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLMAC, INC., New York, N. Y. Filed June 6, 1922.



Particular description of goods.—Golf Balls.

Claims use since Sept. 12, 1922.

Ser. No. 165,264. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIDNEY S. BENDICK, doing business as Trancilla Company, New York, N. Y. Filed June 10, 1922.

TRANCILLA

Particular description of goods.—Chemical Composition Employed in Stamping Patterns for Art Needlework.

Claims use since Apr. 11, 1922.

Ser. No. 165,298. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MILLER & KENT, Bradford, Pa. Filed June 10, 1922.

SOLV-IT

Particular description of goods.—Puzzle.

Claims use since Jan. 27, 1922.

Ser. No. 165,376. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLMAC, INC., New York, N. Y. Filed June 12, 1922.



Particular description of goods.—Golf Balls.

Claims use since about May 1, 1922.

Ser. No. 165,377. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLMAC, INC., New York, N. Y. Filed June 12, 1922.



Particular description of goods.—Golf Balls.

Claims use since about May 1, 1922.

Ser. No. 165,378. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLMAC, INC., New York, N. Y. Filed June 12, 1922.



Particular description of goods.—Golf Balls.

Claims use since about May 1, 1922.

Ser. No. 165,401. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MEIER & FRANK CO., Portland, Oreg. Filed June 12, 1922.

"Gets-em"

Particular description of goods.—Fish Hooks and Flies.

Claims use since Apr. 1, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 18, 1922

156,828. A FOOD CONFECTION COMPRISING SEEDLESS RAISINS AND ROASTED PEANUTS. C. C. ADAMS, Cleves, Ohio.
Filed November 23, 1921. Serial No. 155,797. PUBLISHED APRIL 11, 1922.

156,829. MOTION-PICTURE CAMERAS AND MOTION-PICTURE PROJECTORS. ALADDIN CINEMA COMPANY, INC., Malone, N. Y.
Filed October 8, 1921. Serial No. 153,866. PUBLISHED APRIL 25, 1922.

156,830. CANNED FRUITS AND VEGETABLES, FRUIT PRESERVES, TABLE SAUCES AND DRESSINGS, PICKLES, MINCEMEAT. ALLISON-BEDFORD CO., Chicago, Ill.
Filed August 23, 1921. Serial No. 152,057. PUBLISHED APRIL 11, 1922.

156,831. TABLE SIRUP. THE AMERICAN MOLASSES COMPANY OF NEW YORK, New York, N. Y.
Filed August 29, 1921. Serial No. 152,297. PUBLISHED APRIL 4, 1922.

156,832. INTERNAL-COMBUSTION ENGINES AND CREAM-SEPARATING MACHINES. ASSOCIATED MANUFACTURERS COMPANY, Waterloo, Iowa.
Filed October 12, 1921. Serial No. 154,008. PUBLISHED APRIL 25, 1922.

156,833. COUGH SIRUP. J. HOWARD BAKER, Fort Smith, Ark.
Filed November 18, 1921. Serial No. 155,544. PUBLISHED FEBRUARY 21, 1922.

156,834. CANDY, AND MORE SPECIFICALLY TAFFY OR MOLASSES CANDY. HERMAN A. BANKES, St. Louis, Mo.
Filed December 5, 1921. Serial No. 156,249. PUBLISHED APRIL 18, 1922.

156,835. COMPOUND OF OIL, COMPOSED OF CORN OIL AND OLIVE OIL. BAY BEE OIL CO., New York, N. Y.
Filed November 26, 1920. Serial No. 140,159. PUBLISHED APRIL 4, 1922.

156,836. HOSIERY. BESTEX HOSIERY CO., INC., New York, N. Y.
Filed October 8, 1921. Serial No. 153,870. PUBLISHED APRIL 18, 1922.

156,837. FLEXIBLE DRIVING MECHANISM OF THE BELT AND PULLEY TYPE AND WOODWORKING AND GRINDING MACHINERY. THE P. L. BILLINGSLEY COMPANY, Cincinnati, Ohio.
Filed September 22, 1921. Serial No. 153,197. PUBLISHED APRIL 25, 1922.

156,838. TIRE-TUBE PATCHES. FRANK H. BINNINGER, Cleveland, Ohio.
Filed August 23, 1921. Serial No. 152,062. PUBLISHED FEBRUARY 21, 1922.

156,839. TIRE-TUBE PATCHES. FRANK H. BINNINGER, Cleveland, Ohio.
Filed August 23, 1921. Serial No. 152,063. PUBLISHED JANUARY 31, 1922.

156,840. SHEET-RUBBER PATCHES FOR TIRE TUBES, HOT-WATER BOTTLES, RAINCOATS, OVERSHOES, TENNIS SLIPPERS, RUBBER BOOTS, GARDEN HOSE, AND RUBBER BULBS. FRANK H. BINNINGER, Cleveland, Ohio.
Filed December 23, 1921. Serial No. 157,054. PUBLISHED MARCH 14, 1922.

156,841. CHOCOLATE CANDY. BISHOP & COMPANY, Los Angeles, Calif.
Filed December 19, 1921. Serial No. 156,882. PUBLISHED APRIL 25, 1922.

156,842. SALMON IN CANS OR IN THE BRINE. FREDERIC BLANK & CO., New York, N. Y.
Filed September 30, 1921. Serial No. 153,533. PUBLISHED APRIL 11, 1922.

156,843. CANDY. HENRY C. BOEHM, Jersey City, N. J.
Filed February 17, 1921. Serial No. 143,679. PUBLISHED APRIL 11, 1922.

156,844. CANDY. THE BONITA CO., Fond du Lac, Wis.
Filed December 12, 1921. Serial No. 156,562. PUBLISHED APRIL 18, 1922.

156,845. COTTON CLOTH IN THE PIECE, TOWELS, AND TOWELING. BOOTT MILLS, Lowell, Mass.
Filed January 3, 1922. Serial No. 157,408. PUBLISHED APRIL 25, 1922.

156,846. COOKING DISHES FOR TOY STOVES. GEORGE BORGFELDT & CO., New York, N. Y.
Filed March 10, 1922. Serial No. 160,481. PUBLISHED APRIL 25, 1922.

156,847. FIREWORKS. BUETTELL BROTHERS COMPANY, Dubuque, Iowa.
Filed February 4, 1922. Serial No. 158,850. PUBLISHED APRIL 25, 1922.

156,848. CANE SIRUP AND CORN SIRUP MIXED FOR FOOD PURPOSES. BURNS SYRUP COMPANY, Macon, Ga.
Filed November 1, 1921. Serial No. 154,860. PUBLISHED APRIL 4, 1922.

156,849. CERTAIN ARTICLES OF CLOTHING. EUGENE BYRNES, New York, N. Y.
Filed October 8, 1921. Serial No. 153,868. PUBLISHED APRIL 18, 1922.

156,850. CERTAIN NAMED CHEMICALS AND DENTAL PREPARATIONS. THE L. D. CAULK COMPANY, Milford, Del.
Filed August 6, 1921. Serial No. 151,507. PUBLISHED JANUARY 10, 1922.

156,851. COFFEE. CENTRAL COFFEE CO. INC., Brooklyn, N. Y.
Filed October 12, 1921. Serial No. 154,011. PUBLISHED APRIL 4, 1922.

156,852. CANDY. HARRY B. CHALMERS, New York, N. Y.
Filed October 3, 1921. Serial No. 153,784. PUBLISHED APRIL 4, 1922.

156,853. FOOD RELISHES—NAMELY, MAYONNAISE AND RUSSIAN DRESSING. CHEVY CHASE FOOD PRODUCTS CO., Washington, D. C.
Filed July 19, 1921. Serial No. 150,592. PUBLISHED APRIL 11, 1922.

156,854. PREPARATIONS FOR COAGULATING OR CURDLING MILK. CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y.
Filed December 28, 1920. Serial No. 141,565. PUBLISHED APRIL 4, 1922.

156,855. TABLE SIRUP. CROKER PACKING CO., San Francisco, Calif.
Filed December 7, 1921. Serial No. 156,358. PUBLISHED APRIL 18, 1922.

156,856. STEAM COOKING KETTLES. CURTIS MANUFACTURING COMPANY, Los Angeles, Calif.
Filed November 1, 1921. Serial No. 154,862. PUBLISHED APRIL 25, 1922.

156,857. COCOA BUTTER. DAARNHOUWER & CO., INC., New York, N. Y.
Filed December 7, 1921. Serial No. 156,360. PUBLISHED APRIL 18, 1922.

156,858. BUTTER, CONDENSED MILK, AND EVAPORATED MILK. DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y.
Filed June 27, 1921. Serial No. 149,687. PUBLISHED NOVEMBER 29, 1921.

156,859. TABLE SIRUP. MORTIMER O. DANTZLER, Orangeburg, S. C.
Filed December 22, 1921. Serial No. 157,026. PUBLISHED APRIL 18, 1922.

156,860. APRONS. MINER P. DUGGAN, Sioux City, Iowa.
Filed August 23, 1921. Serial No. 152,069. PUBLISHED MARCH 28, 1922.

156,861. CARBON AND HIGH-SPEED STEEL TWIST DRILLS, REAMERS, FILES, RASPS, TAPS, SCREWING DIES, AND DIE HOLDERS. DYKTOR BROTHERS INC., New York, N. Y.
Filed November 3, 1921. Serial No. 154,969. PUBLISHED MARCH 7, 1922.

156,862. CIGARS. OTTO EISENLOHR & BROS. INCORPORATED, Philadelphia, Pa.
Filed January 17, 1922. Serial No. 158,036. PUBLISHED APRIL 25, 1922.

156,863. INSECT FLUID. EMERSON PHARMACEUTICAL LABORATORIES, West Hoboken, N. J.
Filed October 26, 1921. Serial No. 154,585. PUBLISHED FEBRUARY 7, 1922.

156,864. FOOD PRODUCTS—VIZ, SMOKED SARDINES. ISAAC EPSTEIN, Newark, N. J.
Filed December 16, 1921. Serial No. 156,783. PUBLISHED APRIL 25, 1922.

156,865. WOMEN'S, MISSES', AND CHILDREN'S WEARING APPAREL—VIZ, DRESSES AND FROCKS. GEORGE FARKAS, New York, N. Y.
Filed October 11, 1921. Serial No. 153,973. PUBLISHED APRIL 25, 1922.

156,866. LADIES' HATS. FINK-CIMIOTTI, INC., New York, N. Y.
Filed September 16, 1921. Serial No. 152,993. PUBLISHED APRIL 18, 1922.

156,867. FRUIT FRAPPÉ. RICHARD FRANK, doing business as Richard Frank & Co., New York, N. Y.
Filed March 5, 1921. Serial No. 144,319. PUBLISHED APRIL 25, 1922.

156,868. A TABLE-BOARD GAME PLAYED WITH PIECES. GAMECRAFT AND TOY COMPANY, New York, N. Y.
Filed December 8, 1921. Serial No. 156,446. PUBLISHED APRIL 25, 1922.

156,869. TIRE RETREADS OF RUBBER AND FABRIC IN THE PIECE. THE GENERAL TIRE AND RUBBER COMPANY, Akron, Ohio.
Filed March 17, 1921. Serial No. 144,858. PUBLISHED DECEMBER 27, 1921.

156,870. A RAIN GARMENT COMPRISING A COMBINED HOOD AND CAPE. R. M. GOLDFREDRICK, doing business as R. M. Goldfredrick Co., Chicago, Ill.
Filed September 12, 1921. Serial No. 152,844. PUBLISHED APRIL 25, 1922.

156,871. MOTOR-DRIVEN AND HAND-DRAWN FIRE EXTINGUISHERS AND CHEMICAL FIRE ENGINES. BERNARD J. GOLDSTEIN, doing business under the name of Ajax Fire Engine Works, Brooklyn, N. Y.
Filed October 15, 1921. Serial No. 154,144. PUBLISHED APRIL 25, 1922.

156,872. DRESSES. NAT GOLDSTON & CO., INC., New York, N. Y.
Filed September 20, 1921. Serial No. 153,137. PUBLISHED APRIL 11, 1922.

156,873. CHILDREN'S SUITS AND DRESSES. GOTHAM NOVELTY CO., New York, N. Y.
Filed December 31, 1921. Serial No. 157,368. PUBLISHED APRIL 11, 1922.

156,874. CERTAIN ARTICLES OF CLOTHING. O. F. GRAB & CO., New York, N. Y.
Filed October 7, 1921. Serial No. 153,840. PUBLISHED APRIL 18, 1922.

156,875. CHOCOLATES. HEIDELBERGER CONFECTIONERY CO., Philadelphia, Pa.
Filed December 14, 1921. Serial No. 156,690. PUBLISHED APRIL 25, 1922.

156,876. NONALCOHOLIC, MALTLESS EXTRACTS, COLORS, AND FLAVORS FOR SOFT DRINKS. ROBERT HEINRICHSHOFEN, doing business under the trade name of The West India Manufacturing Co., St. Louis, Mo.
Filed October 25, 1921. Serial No. 154,561. PUBLISHED APRIL 25, 1922.

156,877. [WITHDRAWN.]

156,878. BOW NECKTIES. HEWES & POTTER, Boston, Mass.
Filed August 23, 1921. Serial No. 152,073. PUBLISHED APRIL 25, 1922.

156,879. CERTAIN NAMED GOLF SUPPLIES. HOLMAC, INC., New York, N. Y.
Filed October 20, 1921. Serial No. 154,365. PUBLISHED APRIL 25, 1922.

156,880. GOLF BALLS. HOLMAC, INC., New York, N. Y.
Filed February 10, 1922. Serial No. 159,152. PUBLISHED APRIL 25, 1922.

156,881. A NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUP FOR MANUFACTURING SAID BEVERAGE. HURTY-PECK & COMPANY, Indianapolis, Ind.
Filed January 3, 1921. Serial No. 141,779. PUBLISHED APRIL 26, 1921.

156,882. SKATES. INTERNATIONAL DEVELOPMENT COMPANY, Boston, Mass.
Filed March 16, 1922. Serial No. 160,763. PUBLISHED APRIL 25, 1922.

156,883. MINERAL WATER. ISLE OF WIGHT WATER COMPANY, Dover, Del., and Philadelphia, Pa.
Filed January 20, 1922. Serial No. 158,185. PUBLISHED APRIL 25, 1922.

156,884. COFFEE. THE JOHNSON-LAYNE COFFEE COMPANY, St. Louis, Mo.
Filed December 23, 1921. Serial No. 157,066. PUBLISHED APRIL 25, 1922.

156,885. MATCHES. JÖNKÖPINGS OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed December 29, 1921. Serial No. 157,274. PUBLISHED APRIL 4, 1922.

156,886. CERTAIN NAMED TOYS. KELMET CORPORATION, New York, N. Y.
Filed March 4, 1922. Serial No. 160,195. PUBLISHED APRIL 25, 1922.

156,887. CHEWING GUM. JOSEPH G. KITCHELL, New York, N. Y., assignor to Apple Gum Company, Inc., New York, N. Y., a Corporation of Delaware.
Filed October 28, 1921. Serial No. 154,696. PUBLISHED APRIL 11, 1922.

156,888. CHEWING GUM. JOSEPH G. KITCHELL, New York, N. Y., assignor to Apple Gum Company, Inc., New York, N. Y., a Corporation of Delaware.
Filed December 10, 1921. Serial No. 156,535. PUBLISHED APRIL 18, 1922.

156,889. NONALCOHOLIC MALTLESS BEVERAGE OR DRINK. MAX LEIBER & COMPANY, Donora, Pa.
Filed January 31, 1922. Serial No. 158,684. PUBLISHED APRIL 25, 1922.

156,890. AUTOMOBILES. LEXINGTON MOTOR COMPANY, Connersville, Ind.
Filed July 2, 1921. Serial No. 149,969. PUBLISHED AUGUST 16, 1921.

156,891. WOMEN'S AND GIRLS' WOVEN AND TEXTILE UNDERWEAR, SHIRT WAISTS, INFANTS' WOVEN AND TEXTILE UNDERWEAR AND DRESSES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed October 8, 1921. Serial No. 153,880. PUBLISHED APRIL 18, 1922.

156,892. COTTON PIECE GOODS. MASSACHUSETTS COTTON MILLS, Boston, Mass.
Filed December 27, 1921. Serial No. 157,161. PUBLISHED APRIL 25, 1922.

156,893. CHOCOLATES, CHOCOLATE BARS, AND CHOCOLATE NUT BARS. MERCKENS INC., New Brunswick, N. J.
Filed March 12, 1921. Serial No. 144,679. PUBLISHED APRIL 4, 1922.

156,894. LADIES' AND MISSES' DRESSES. MORRIS NAGEL & CO., INC., New York, N. Y.
Filed September 14, 1921. Serial No. 152,928. PUBLISHED APRIL 11, 1922.

156,895. COFFEE. NASH COFFEE COMPANY, Minneapolis, Minn.
Filed December 5, 1921. Serial No. 156,292. PUBLISHED APRIL 18, 1922.

156,896. FLAVORING EXTRACTS FOR NONALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS. NATIONAL FRUIT FLAVOR CO., New Orleans, La.
Filed February 13, 1920. Serial No. 128,368. PUBLISHED JUNE 8, 1920.

156,897. COSMETIC LOTION FOR BEAUTIFYING THE SKIN AND ERADICATING BLEMISHES THEREOF. THOMAS J. NEWLYN, doing business as The Beautypeel Cosmetic Co., El Paso, Tex.
Filed February 2, 1922. Serial No. 158,791. PUBLISHED APRIL 25, 1922.

156,898. FRESH DECIDUOUS FRUITS. NORTHERN CALIFORNIA FRUIT CO., Lodi, Calif.
Filed October 5, 1920. Serial No. 137,955. PUBLISHED APRIL 4, 1922.

156,899. NONALCOHOLIC MALTLESS BEVERAGE OF PURE FRUIT JUICES, BEING A BLEND OF APPLE JUICE AND LOGANBERRY JUICE. NORTHWEST FRUIT PRODUCTS CO., Salem, Oreg.
Filed December 29, 1921. Serial No. 157,278. PUBLISHED APRIL 25, 1922.

156,900. CANDY. THE NUNNALLY COMPANY, Atlanta, Ga.
Filed December 24, 1921. Serial No. 157,105. PUBLISHED APRIL 25, 1922.

156,901. CERTAIN ARTICLES OF CLOTHING. THE OTTENHEIMER, GOLDMAN CO. INC., Baltimore, Md.
Filed September 21, 1921. Serial No. 153,184. PUBLISHED APRIL 11, 1922.

156,902. MALT EXTRACT USED BY BAKERS FOR FOOD PURPOSES. PABST CORPORATION, Milwaukee, Wis.
Filed September 3, 1921. Serial No. 152,583. PUBLISHED APRIL 11, 1922.

156,903. COTTON PIECE GOODS. PACIFIC MILLS, Boston, Mass.
Filed December 24, 1921. Serial No. 157,106. PUBLISHED APRIL 4, 1922.

156,904. CANDY. PACKAGE CONFECTIONERY COMPANY, Boston, Mass.
Filed January 8, 1921. Serial No. 141,988. PUBLISHED APRIL 11, 1922.

156,905. CANDY. PALMER CANDY CO., Sioux City, Iowa.
Filed October 19, 1921. Serial No. 154,323. PUBLISHED APRIL 4, 1922.

156,906. UNDERSHIRTS, DRAWERS, UNION SUITS, WAISTS, NEGLIGEE SHIRTS, PYJAMAS, AND NIGHT ROBES. ISIDOR PANITZ, Baltimore, Md.
Filed September 22, 1921. Serial No. 153,225. PUBLISHED APRIL 11, 1922.

156,907. HAM. PATRICK YOUNG COMPANY, Richmond, Va.
Filed September 23, 1921. Serial No. 153,278. PUBLISHED APRIL 4, 1922.

156,908. PLUSH GOODS IN THE PIECE. FRED PEARSON & COMPANY, Philadelphia, Pa.
Filed January 7, 1922. Serial No. 157,633. PUBLISHED APRIL 4, 1922.

156,909. MEN'S WORK SHIRTS, BOYS' WORK SHIRTS, BOYS' BLOUSES AND PLAY SUITS. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y.
Filed September 26, 1921. Serial No. 153,368. PUBLISHED APRIL 18, 1922.

156,910. FRUIT MARMALADES, JAMS, CONSERVES, JELLIES, AND FRUIT PRESERVES. PHOEBE GREEN COMPANY, Yakima, Wash.
Filed August 2, 1921. Serial No. 151,288. PUBLISHED APRIL 4, 1922.

156,911. FINGER RINGS. CLIFFORD B. POAGE, Columbus, Ohio.
Filed January 16, 1922. Serial No. 158,006. PUBLISHED MAY 2, 1922.

156,912. BABY OUTFITS CONSISTING OF DIAPER BAG, WHITE BABY PANTS, FLESH BABY PANTS, CRIB SHEET, CARRIAGE SHEET, AND ABSORBENT BIB. POLKASB MFG. CO., New York, N. Y.
Filed October 12, 1921. Serial No. 154,045. PUBLISHED APRIL 25, 1922.

156,913. CANNED FRUITS—VIZ, PEARS, APRICOTS, PEACHES, CHERRIES, PLUMS, AND GRAPES. H. G. PRINCE & Co., Oakland, Calif.
Filed December 7, 1921. Serial No. 156,402. PUBLISHED APRIL 18, 1922.

156,914. CANDY. GEORGE L. RASSIAS, Brooklyn, N. Y.
Filed October 26, 1921. Serial No. 154,618. PUBLISHED APRIL 4, 1922.

156,915. MEN'S AND BOYS' KNITTED UNDERWEAR IN ONE-PIECE GARMENTS. ROGERS PEET COMPANY, New York, N. Y.
Filed September 27, 1921. Serial No. 153,408. PUBLISHED APRIL 18, 1922.

156,916. CERTAIN NAMED TOYS. SACHEM MANUFACTURING COMPANY, INC., Brockton, Mass.
Filed January 21, 1922. Serial No. 158,263. PUBLISHED APRIL 25, 1922.

156,917. FLYING TOY. ALFRED L. SALVO, Augusta, Ga.
Filed March 1, 1922. Serial No. 160,028. PUBLISHED APRIL 25, 1922.

156,918. CIGARETTES. HARRY LINDSAY SAVORY, London, England; Reginald Shurey, executor of the estate of said Harry Lindsay Savory, deceased, assignor to H. L. Savory and Company Limited, London, England, a Corporation of Great Britain.
Filed December 5, 1919. Serial No. 125,635. PUBLISHED APRIL 25, 1922.

156,919. CIGARS. ESTATE OF JOSEPH J. SCHAEFER, Dayton, Ohio.
Filed April 29, 1921. Serial No. 146,990. PUBLISHED APRIL 25, 1922.

156,920. CIGARS. ESTATE OF JOSEPH J. SCHAEFER, Dayton, Ohio.
Filed April 29, 1921. Serial No. 146,991. PUBLISHED APRIL 25, 1922.

156,921. CREAMERY BUTTER, PURE LARD, HAMS, BACONS, SHOULDERS, SAUSAGES, PORK ROLLS, DRIED BEEF, AND CHEESE. THE WM. SCHLUDERBERG-T. J. KURDLE CO., Baltimore, Md.
Filed March 8, 1921. Serial No. 144,478. PUBLISHED APRIL 4, 1922.

156,922. CERTAIN ARTICLES OF CLOTHING. I. SCHOENEMAN, INCORPORATED, Baltimore, Md.
Filed August 23, 1921. Serial No. 152,098. PUBLISHED MARCH 28, 1922.

156,923. NATURAL SPRING WATER. SHELL ROCK SPRING WATER CO. INC., Perth Amboy, N. J.
Filed February 4, 1922. Serial No. 158,897. PUBLISHED APRIL 25, 1922.

156,924. COTTON GOODS IN THE PIECE. WM. SIMPSON, SONS & CO., Philadelphia, Pa.
Filed September 2, 1921. Serial No. 152,523. PUBLISHED APRIL 4, 1922.

156,925. FABRIC KNOWN AS A ROYAL TURKISH RUG. W. T. SMITH & SON, INC., Philadelphia, Pa.
Filed January 25, 1922. Serial No. 158,458. PUBLISHED APRIL 25, 1922.

156,926. CERTAIN NAMED MEDICINAL PREPARATIONS. MAGGIE S. SNOW, Charlottesville, Va.
Filed November 17, 1921. Serial No. 155,524. PUBLISHED MARCH 14, 1922.

156,927. LADIES' HATS. HARRY-SOLOMONS & SON, New York, N. Y.
Filed September 29, 1921. Serial No. 153,523. PUBLISHED APRIL 18, 1922.

156,928. CANDIES. SPRINGER CHOCOLATE CO. INC., New York, N. Y.
Filed November 19, 1921. Serial No. 155,644. PUBLISHED APRIL 25, 1922.

156,929. LADIES' TRIMMED HATS. STAADECKER & CO., Seattle, Wash.
Filed August 22, 1921. Serial No. 152,044. PUBLISHED APRIL 25, 1922.

156,930. CANNED FISH, CANNED FRUITS, AND CANNED VEGETABLES. STEELE PACKING COMPANY, San Diego, Calif.
Filed September 28, 1921. Serial No. 153,481. PUBLISHED APRIL 11, 1922.

156,931. STEAM-TRAP AIR VALVES FOR GENERAL USE. T. S. TODD & CO., New York, N. Y.
Filed October 19, 1921. Serial No. 154,337. PUBLISHED APRIL 25, 1922.

156,932. COTTON AND WOOL BLANKETS. ESTATE OF JOHN E. TOWNSEND, Milton, N. H.
Filed September 28, 1921. Serial No. 153,484. PUBLISHED APRIL 11, 1922.

156,933. COTTON GOODS IN THE PIECE. TRION COMPANY, Trion, Ga.
Filed December 27, 1921. Serial No. 157,187. PUBLISHED APRIL 25, 1922.

156,934. CERTAIN OIL-WELL TOOLS AND EQUIPMENT. UNION TOOL COMPANY, Torrance, Calif.
Filed March 4, 1922. Serial No. 160,215. PUBLISHED APRIL 25, 1922.

156,935. MEN'S, LADIES', AND CHILDREN'S COTTON, SILK, FIBER SILK, AND WOOL HOSE. LATIMER C. VAUGHAN, New York, N. Y.
Filed October 3, 1921. Serial No. 153,705. PUBLISHED APRIL 18, 1922.

156,936. LADIES', MISSES', AND CHILDREN'S DRESSES. JOHN WANAMAKER, NEW YORK, New York, N. Y.
Filed September 23, 1921. Serial No. 153,272. PUBLISHED APRIL 11, 1922.

156,937. UMBRELLA AND PARASOL FERRULES AND TIES. WANGER UMBRELLA CO., New York, N. Y.
Filed November 2, 1921. Serial No. 154,943. PUBLISHED MARCH 28, 1922.

156,938. COTTON PIECE GOODS. WARE SHOALS MFG. CO., Ware Shoals, S. C.
Filed December 27, 1921. Serial No. 157,200. PUBLISHED APRIL 25, 1922.

156,939. CANDY AND CHEWING GUM. JAMES WARING WOOD, Poughkeepsie, N. Y.
Filed May 23, 1921. Serial No. 148,101½. PUBLISHED APRIL 4, 1922.

156,940. FLAVORING EXTRACTS FOR FOOD PURPOSES. WEBB MANUFACTURING COMPANY, Nashville, Tenn.
Filed September 14, 1921. Serial No. 152,940. PUBLISHED FEBRUARY 14, 1922.

156,941. SILKWORM GUT LEADERS, AND LEADERS MADE OF OTHER MATERIAL FOR ARTIFICIAL FISH BAITS. THE WEBER LIFELIKE FLY CO., Stevens Point, Wis.
Filed February 8, 1922. Serial No. 159,067. PUBLISHED APRIL 25, 1922.

156,942. CANDY. WESTMORELAND CANDY COMPANY, Richmond, Va.
Filed November 14, 1921. Serial No. 155,379. PUBLISHED APRIL 25, 1922.

156,943. WOVEN FABRIC UNION SUITS, SHIRTS, AND DRAWERS, KNITTED UNION SUITS, SHIRTS, AND DRAWERS; RUNNING PANTS, NIGHT ROBES, PYJAMAS, AND NEGLIGEE SHIRTS. THE F. T. WOODMAN CO., Cambridge, Mass.
Filed October 10, 1921. Serial No. 153,964. PUBLISHED APRIL 25, 1922.

156,944. PEPPER, ALLSPICE, MIXED PICKLING SPICE, CINNAMON, TURMERIC, WHITE PEPPER, GINGER, SAVORY, CLOVES, MUSTARD, CAYENNE PEPPER, THYME, GROUND SAGE, CHILI POWDER, SPANISH PAPRIKA, GROUND NUTMEG, MARJORAM, CURRY POWDER, LEMON AND VANILLA EXTRACT. WORDEN GROCER COMPANY, Grand Rapids, Mich.
Filed April 18, 1921. Serial No. 146,349. PUBLISHED APRIL 11, 1922.

156,945. UNSHELLED, SHELLED, ROASTED, AND SALTED PISTACHIO NUTS. ZALOOM BROTHERS, New York, N. Y.
Filed August 11, 1921. Serial No. 151,695. PUBLISHED APRIL 4, 1922.

156,946. FRESH DECIDUOUS FRUITS, DRIED FRUITS, AND GRAPE SIRUP FOR FOOD PURPOSES. LORENZO ZERILLO, Healdsburg, Calif.
Filed July 14, 1920. Serial No. 134,994. PUBLISHED APRIL 4, 1922.

156,947. MEN'S AND CHILDREN'S HATS AND CAPS. D. E. LOEWE & CO., Danbury, Conn.
Filed August 17, 1921. Serial No. 151,877. PUBLISHED MARCH 28, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b).]

JULY 18, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

156,948. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO., INC., Cortland, N. Y.
Filed May 24, 1922. Serial No. 164,384.



Particular description of goods.—Fishing Lines.
Claims use since June 2, 1920.

156,949. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y.
Filed May 24, 1922. Serial No. 164,383.



Particular description of goods.—Fishing Lines.
Claims use since Mar. 15, 1919.

156,950. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y.
Filed May 24, 1922. Serial No. 164,380.



Particular description of goods.—Braided Enameled Japan-Silk Fishing Lines.
Claims use since June 1, 1918.

156,951. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y.
Filed May 24, 1922. Serial No. 164,377.



Particular description of goods.—Braided Enameled Japan-Silk Fishing Lines.
Claims use since June 8, 1920.

156,952. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,375.



Particular description of goods.—Braided Japan-Silk Enameled Fishing Lines.
Claims use since June 1, 1918.

156,953. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,372.



Particular description of goods.—Enameled Japan-Silk Fishing Lines.
Claims use since June 1, 1918.

156,954. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,365.



Particular description of goods.—Cuttyhunk Bass and Tarpon Fishing Lines.
Claims use since July 29, 1919.

156,955. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,364.



Particular description of goods.—Surfman's Cuttyhunk Fishing Lines.
Claims use since Dec. 24, 1920.

156,956. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,363.



Particular description of goods.—Cuttyhunk Fishing Lines.
Claims use since July 29, 1919.

156,957. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,362.



Particular description of goods.—Irish-Linen Braided Cuttyhunk Fishing Lines.
Claims use since July 29, 1919.

156,958. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & CO., New York, N. Y. Filed May 19, 1922. Serial No. 164,123.

FAMOUS

Particular description of goods.—Snapping Mottoes.
Claims use since about January, 1919.

156,959. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & CO., New York, N. Y. Filed May 19, 1922. Serial No. 164,122.

STANDARD

Particular description of goods.—Snapping Mottoes.
Claims use since 1918.

156,960. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE PISTON RING COMPANY, Muskegon Heights, Mich. Filed Apr. 1, 1922. Serial No. 161,645.

STA-TITE

Particular description of goods.—Piston Rings.
Claims use since July 1, 1912.

156,961. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE RICH PUMP AND LADDER COMPANY, Cincinnati, Ohio. Filed Mar. 24, 1922. Serial No. 161,202.

RICH

Particular description of goods.—Ladders.
Claims use since Dec. 1, 1901.

156,962. (CLASS 12. CONSTRUCTION MATERIALS.) STELWAGON MANUFACTURING CO., Philadelphia, Pa. Filed Mar. 8, 1922. Serial No. 160,365.

QUAKER CITY

Particular description of goods.—Felt Roofing.
Claims use since about Jan. 1, 1912.

156,963. (CLASS 12. CONSTRUCTION MATERIALS.) STELWAGON MANUFACTURING CO., Philadelphia, Pa. Filed Mar. 8, 1922. Serial No. 160,364.

STORMTITE

Particular description of goods.—Felt Roofing.
Claims use since about Jan. 1, 1913.

156,964. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IRVING BERKENFIELD, doing business under the name of The Field Laboratories, Erie, Pa. Filed Dec. 7, 1921. Serial No. 156,353.

Field's

Particular description of goods.—Food-Flavoring Extracts, Spices, and Sauces.
Claims use since February, 1920.

156,965. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWESTERN YEAST COMPANY, Chicago, Ill. Filed Sept. 19, 1921. Serial No. 153,106.

MRS. MCCULLOUGH'S

Particular description of goods.—Yeast.
Claims use since January, 1907.

156,966. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PERUNA COMPANY, Columbus, Ohio. Filed Feb. 19, 1921. Serial No. 143,835.

NO-AKE

Particular description of goods.—Medicinal Preparation for Use in the Relief of Headaches, Nervousness, and Other Disorders.
Claims use since Jan. 1, 1921.

156,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PERUNA COMPANY, Columbus, Ohio. Filed Feb. 19, 1921. Serial No. 143,834.

NO AKE

Particular description of goods.—Medicinal Preparation for Use in the Relief of Headaches, Nervousness, and Other Disorders.
Claims use since Jan. 1, 1921.

156,968. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANDREA H. TRIPI, Buffalo, N. Y. Filed Jan. 17, 1921. Serial No. 142,365.

Skinease

Particular description of goods.—A Preparation for the Treatment of Skin Diseases.
Claims use since Sept. 15, 1920.

156,969. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ACTO TRUCK SERVICE CO., INC., Milwaukee, Wis. Filed July 12, 1920. Serial No. 134,797.

GIANT EASY LIFT HOIST

Particular description of goods.—Dump Carts.
Claims use since Jan. 15, 1919.

156,970. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ERNEST & HERMAN LEVY, INC., New York, N. Y. Filed May 22, 1920. Serial No. 132,782.

Kamisol

Particular description of goods.—Ribbons for Making Camisoles.
Claims use since Aug. 1, 1919.

156,971. CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAFANDSHUR CHEMICAL CO., INC., New York, N. Y. Filed Nov. 25, 1919. Serial No. 125,307.

SafandShur

Particular description of goods.—Fire-Extinguisher Fluid.
Claims use since Aug. 23, 1919.

156,972. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore and Cumberland, Md. Filed Sept. 25, 1919. Serial No. 123,092.

American Wholesale Corporation
(Baltimore Bargain House)

Particular description of goods.—Crockery, Cooking Utensils, Flowerpots and Porcelain and Earthenware Vases, Porcelain Table and Kitchen Ware, Jardinières, Porcelain Toilet Sets, and Crockery Dishes.
Claims use since June 27, 1919.

156,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WYATT BROS., Chicago, Ill. Filed July 24, 1919. Serial No. 120,895.

HIGH MELT

Particular description of goods.—Cottonseed-Oil Stearin.
Claims use since about the 1st of May, 1918.

LABELS

REGISTERED JULY 18, 1922.

24,711.—*Title:* "AJEM CORN PASTE." (For a Proprietary Medicine for the Removal of Corns and the Like.) MATTHEW A. AJEMIAN, West New York, N. J. Filed April 14, 1922.

24,712.—*Title:* "AMERICAN 'E' PRODUCTS COMPANY." (For Powdered Soups.) AMERICAN 'E' PRODUCTS COMPANY, Minneapolis, Minn. Filed November 11, 1918.

24,713.—*Title:* "WHEATSWORTH WHOLE WHEAT GRAHAM CRACKERS." (For Crackers.) F. H. BISCUIT COMPANY, New York, N. Y. Filed June 7, 1922.

24,714.—*Title:* "MALTOID MILK-BONE PUPPY FOOD." (For Dog Biscuits.) F. H. BENNETT BISCUIT COMPANY, New York, N. Y. Filed June 7, 1922.

24,715.—*Title:* "HARRY'S FLORIDA PECAN ROLL." (For a Nut Confection.) HARRY BERNSTEIN, Tampa, Fla. Filed March 8, 1921.

24,716.—*Title:* "JACK'S FISH FERRETS." (For Fishing Tackle.) JOHN R. CUNNINGHAM, Kansas City, Mo. Filed June 9, 1922.

24,717.—*Title:* "JACK'S BAIT WIGGLE TAIL." (For Containers for Fishing Bait.) JOHN R. CUNNINGHAM, Kansas City, Mo. Filed June 9, 1922.

24,718.—*Title:* "DEATH-BLO CERTAINLY ANNIHILATES PESTS." (For Packages Containing a Preparation for Destroying Insects.) DANIEL F. DAVENPORT, under the name of The Davenport Company, Americus, Ga. Filed March 22, 1922.

24,719.—*Title:* "DEXTER'S MOTHER'S BREAD." (For Bread.) EUGENE A. DEXTER, Springfield, Mass. Filed December 23, 1921.

24,720.—*Title:* "VARICOSOL." (For a Box Containing a Medical Preparation in Powder Form for the Treatment of Hardening of the Arteries, Varicocele, Varicose Veins, and Rheumatism.) PETER T. DONOVAN, doing business under the name of P. T. Donovan Co., New York, N. Y. Filed May 19, 1922.

24,721.—*Title:* "FLOR DE GARCIA & CO. HAVANA." (For Cigars, Cigarettes, and Tobacco.) JOSEPH A. GARCIA & COMPANY, New York, N. Y. Filed June 7, 1922.

24,722.—*Title:* "G M C METALLIC GREASE." (For Lubricating Grease.) GEARO MFG. CO., Quincy, Ill. Filed January 27, 1922.

24,723.—*Title:* "GRIER'S GRINDING COMPOUND." (For Compounds for Grinding in Bearings.) THE GRIBURN CO., INC., Philadelphia, Pa. Filed June 5, 1922.

24,724.—*Title:* "DE LUXE VANITY." (For Powder Puffs.) HOCHSCHILD CORPORATION, Chicago, Ill. Filed February 23, 1922.

24,725.—*Title:* "HOLMES HONEY POPS." (For Confectionery.) HARRY G. HOLMES, doing business as The Holmes Confectionery Company, Middletown, Conn. Filed June 7, 1922.

24,726.—*Title:* "ON THE TRAIL OF A GOOD TIRE." (For Vehicle Tires, Being Applied to the Boxes or Packages Containing the Same.) THE IDEAL TIRE AND RUBBER COMPANY, Cleveland, Ohio. Filed January 26, 1920.

24,727.—*Title:* "VITAMINE TOMATOES." (For Canned Tomatoes.) KEMP BROS. PACKING CO., Frankfort, Ind. Filed April 24, 1922.

24,728.—*Title:* "GRAINO." (For Soap.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed June 8, 1922.

24,729.—*Title:* "KOREX." (For Soap.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed June 8, 1922.

24,730.—*Title:* "KENDENE." (For Soap.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed June 8, 1922.

24,731.—*Title:* "MURRAY'S FRAGRANT CREAM VIOLET FOR BEAUTIFYING THE COMPLEXION." (For 25ct., 35ct., and 50ct. Size Bottles Containing a Preparation for Beautifying the Complexion.) EMMETT L. MURRAY, doing business under the name of Murray's Pharmacy, Americus, Ga. Filed May 15, 1922.

24,732.—*Title:* "PURE SILK." (For Hosiery.) NON-RIP SILK HOSIERY MILLS INC., New York, N. Y. Filed June 8, 1922.

24,733.—*Title:* "STYLE NO. 2016, THE READI-SEW PACKAGE." (For an Envelope Containing Children's Ready-to-Sew Garments.) THE READI-SEW PACKAGE CO., INC., New York, N. Y. Filed May 3, 1922.

24,734.—*Title:* "RUGGIERO'S DENTATURA." (For Bottles or Cartons Containing a Mouth Wash.) ANTONIO RUGGIERO, Malden, Mass. Filed April 5, 1922.

24,735.—*Title:* "SQUARE D SAFETY SWITCH." (For Electric Switches.) SQUARE D CO., Detroit, Mich. Filed May 2, 1922.

24,736.—*Title:* "OLD VIRGINIA BRUNSWICK STEW." (For Canned Old Virginia Brunswick Stew.) FRANKLIN STURDIVANT, Brownsville, Tenn. Filed June 5, 1922.

24,737.—*Title:* "SUNSHINE MACARONI." (For Macaroni.) SUNSHINE MACARONI MFG. CO. INC., Brooklyn, N. Y. Filed June 6, 1922.

24,738.—*Title:* "A C T CHEMICAL PRODUCTS." (For Pieces of Paper or Other Material, Which are to be Attached to Bottles, Boxes, or Packages Containing Chemical Articles of Manufacture.) ALLAN C. THAYER, Detroit, Mich. Filed June 3, 1920.

24,739.—*Title:* "KILL-O-PEST." (For a Liquid Disinfectant for Destroying Ants, Moths, Flies.) UNIVERSAL PRODUCTS CO., Los Angeles, Calif. Filed May 1, 1922.

24,740.—*Title:* "ALL SEASON VEIL." (For Veils.) AUGUSTUS A. WEST, doing business under the name of West Electric Hair Curler Co., Philadelphia, Pa., assignor to David L. Short, Philadelphia, Pa. Filed May 31, 1919.

24,741.—*Title:* "THE WORLD'S FINEST FRUIT." (For Fruit Wrappers.) HENRY R. WILLIAR, San Francisco, Calif. Filed April 19, 1922.

24,742.—*Title:* "ZIEGLER'S AERO KISSES." (For Candy Kisses.) GEO. ZIEGLER CO., Milwaukee, Wis. Filed April 29, 1922.

PRINTS

REGISTERED JULY 18, 1922.

6,210.—*Title:* "VENUS THIN LEADS." (For Advertising Purposes for Lead Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed June 7, 1922.

6,211.—*Title:* "COAL." (For Advertising Purposes for Coal.) FRANK A. BASSETT, Holyoke, Mass. Filed May 12, 1922.

6,212.—*Title:* "THE WINNER'S CUP." (For Advertising Purposes for Gold and Silver Ware.) CHRICHTON BROS., New York, N. Y. Filed March 23, 1921.

6,213.—*Title:* "LEAPING BASS NO. 2." (For Advertising Purposes for Fishing Tackle.) THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed June 9, 1922.

6,214.—*Title:* "LEAPING BASS NO. 1." (For Advertising Purposes for Fishing Tackle.) THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed June 9, 1922.

6,215.—*Title:* "MADE MECHANICALLY CORRECT." (For Advertising Purposes for Steel Boats, Barges, Marine Engines, Boilers, and Equipment.) MARIETTA MANUFACTURING COMPANY, Point Pleasant, W. Va. Filed March 19, 1920.

6,216.—*Title:* "SCIENTIFIC CONTROL vs. INDISCRIMINATE FEEDING." (For Advertising Purposes for Mead's Infant Diet Materials.) MEAD JOHNSON & COMPANY, Evansville, Ind. Filed June 3, 1922.

6,217.—*Title:* "FEATURING THE NON RIP SILK HOSIERY." (For Advertising Purposes for Hosiery.) NON-RIP SILK HOSIERY MILLS INC., New York, N. Y. Filed June 8, 1922.

6,218.—*Title:* "SPORT TROUSERS." (For Advertising Purposes for White Duck Clothing.) THE JAMES E. RICHARDS COMPANY, Dayton, Ohio. Filed June 5, 1922.

6,219.—*Title:* "SINGER SEWING MOTOR." (For Advertising Purposes for Sewing Motors.) THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J. Filed May 19, 1922.

6,220.—*Title:* "SINGER PORTABLE ELECTRIC." (For Advertising Purposes for Portable Electric Sewing Machines.) THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J. Filed May 19, 1922.

6,221.—*Title:* "SINGER ELECTRIC FANS." (For Advertising Purposes for Electric Fans.) THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J. Filed May 19, 1922.

6,222.—*Title:* "DANDERCIDE." (For Advertising Purposes for Hair Tonic.) L. J. WANTLAND, Oklahoma, Okla. Filed April 26, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

IN RE SCHOLLENBERGER.

No. 1463. Decided March 6, 1922.

1. REJECTION—NEW GROUNDS—FAILURE TO REMAND WHEN NOT REQUESTED IS NOT ERROR.

Where the applicant did not request the Commissioner, who rejected the application on a ground not considered by the Examiner, to remand the case to the Examiner for amendment of the claims, but instead appealed from the Commissioner's decision, he cannot complain of the Commissioner's failure to remand.

2. PATENTABILITY—DOUBT RESOLVED IN FAVOR OF APPLICANT.

Where there is doubt as to the patentability of a claim, *Held* that the doubt should be resolved in favor of the applicant.

Mr. Paul Finckel and *Mr. Ray P. Scott* for Schollenberger.

Mr. T. A. Hostetler for the Commissioner of Patents.

SMYTH, *C. J.:*

This is an appeal from a decision of the Commissioner of Patents rejecting an application for a patent. The structure upon which the patent is sought is described in one claim, which reads as follows:

> In a sanitary closet, the combination with a room, of a toilet bowl therein, having a seat and hinged cover, a tank below said bowl, a relatively large tubular conducting member between said bowl and said tank, a primary vent pipe leading from the upper portion of said tank upwardly through said room, immediately back of the bowl and adjacent to it, and a comparatively small by-pass or secondary vent pipe connecting the upper rear interior of said bowl at the point nearest said primary vent pipe, with said primary vent pipe at an angle of substantially forty-five degrees.

The Primary Examiner and the Examiners in Chief denied the application, on the ground that the invention described was anticipated by patents to three persons, while the Commissioner proceeded on the assumption that—

> the specific coaction between the various details recited, which is necessary to a paentable combination,

was not shown.

Appellant says that since his application was not twice rejected or rejected at all by the Primary Examiner on the ground given by the Commissioner, the latter should have remanded the case to the former with directions that he, the appellant, be permitted to modify his claims so as to obviate the newly-raised objection. But the ready answer to this is that he did not ask that this be done, but appealed from the Commissioner to this court. It cannot be properly said that the Commissioner erred in failing to do that which he was not requested to do.

It seems to be the settled law that to constitute a combination, as distinguished from an aggregation, it is essential that there should be some joint operation performed by the combination which produces a new and useful result. (*American Chocolate Machinery Co.* v. *Helmstetter*, 142 Fed., 978; *in re Lower*, 49 App. D. C., 226; 263 Fed., 478; 272 O. G., 913.) But does not the device we are considering produce such a result? Dealing with this subject are affidavits of two disinterested engineers of broad experience in the heating and ventilating art. One of them is a graduate of the Massachusetts Institute of Technology, and the other, of the Nebraska State University. For nearly eighteen years they have studied problems of ventilation and movements of air. Each engineer carefully examined the references cited by the Office, and compared them, element by element, with the Shollenberger device. They pointed out the differences between the latter and the references, and said the differences were real, fundamental, and essential. According to them, the device of the application is original and accomplishes a new result. There are more than three thousand of the devices in use, a fact which tends to corroborate the testimony of the engineers that the device achieves results not reached by those of the references. Weight should be given to this on the question of patentability. (*In re Thomson*, 26 App. D. C., 419, 425; 120 O. G., 2756.) It would seem that Shollenberger has succeeded where others have failed, and this is evidence of invention. (*In re Rowell*, 48 App. D. C., 238, 241; 259 O. G., 778, and cases cited.)

In view of these things we have serious doubt as to the patentability of the device. And, following our rule that where there is such doubt it should be resolved in favor of the applicant, we hold the claim of the issue is patentable, and accordingly reverse the decision of the Commissioner.

Reversed.

U. S. Circuit Court of Appeals—Seventh Circuit.

CONDRON CO. v. CORRUGATED BAR CO.

Decided March 18, 1922.

[279 Fed. Rep., 867.]

1. PATENTS—1,005,756, CLAIMS 2, 4, 6, 7, FOR REINFORCED CONCRETE FLOOR CONSTRUCTION, HELD INVALID.
The Sinks patent, No. 1,005,756, claims 2, 4, 6, and 7, for an improvement in reinforced construction of floors resting on supporting posts, which differed from prior patents by substituting rods for heavy meshed wire and by a different arrangement of the rods, *Held* void for want of invention.

2. SAME—FACILITY IN ESTIMATING STRENGTH OR COST DOES NOT MAKE PATENTABLE A STRUCTURE NOT OTHERWISE DISCLOSING INVENTION.
The fact that a change in the arrangement of reinforcing rods for concrete floor construction made it easier to estimate the required strength of the materials and the cost of construction does not make it patentable, where the changes in the structure itself did not involve invention.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Illinois.

Suit for infringement of a patent by the Condron Company against the Corrugated Bar Company. From a decree dismissing the bill (256 Fed., 672), complainant appeals. Affirmed.

Mr. Melville Church and *Mr. Arthur M. Hood* for the appellant.

Mr. Wallace R. Lane for the appellee.

Before BAKER, ALSCHULER, and EVANS, Circuit Judges.

ALSCHULER, *Cir. J.:*

The action was for infringement of Sinks patent, No. 1,005,756, October 10, 1911. On the hearing claims 2, 4, 6 and 7 were relied on. The district court dismissed the bill for want of equity on the ground of invalidity.

[1] The patent is in the art of reinforced concrete construction of floors resting upon supporting posts. The patent calls it a "monolithic structure," the reinforced concrete of the supporting posts and of the floors being molded together. The claimed achievement is through such an arrangement of reinforcing bars, extending rectangularly from post to post, crossing each other above the posts, whereby this part of the structure will constitute what in the patent is termed "inclosing slabs," constituting part of the floor, and at the same time affording support for the intervening floor filling the space between these "inclosing slabs." The intervening slabs are directly strengthened and supported by transverse bars extending between and supported by the inclosing slabs, and are disposed within the slab, so as to be where the greatest tensile strength is necessary. But when completed the entire floor is in fact a single slab, without any deep supporting beams below, save only as the widely flaring post tops of the patent in a measure serve the function of such beams.

Advantage is claimed, not only in doing away with deep floor beams or girders, but also in enabling engineers more readily and accurately to figure strains and stresses. Reinforced-concrete floors, supported by succession of posts, without the deep floor beams or girders, were not new with Sinks. Norcross—Patent No. 698,542, 1902—showed such a floor. It does not appear that his supporting posts were monolithic with the floors; but this is a mere detail of construction, wherein patentability does not reside, and is not claimed. His reinforcing agent was not rods; but he describes a heavy meshed wire, and extends it rectangularly from post to post, thus having in the same sense as Sinks inclosing slabs, in that his heaviest reinforcement is directly from post to post. To substitute rods of varying dimensions, for taking care of the estimated strain, would not involve invention.

Patent No. 1,003,384, to Turner, September 12, 1911, though not necessarily in the prior art, shows a peculiar arrangement of rods just above the posts and for supporting the intervening floor he had rods extending diagonally from post to post instead of rectangularly between the inclosing slabs as in Sinks. He showed the same absence of floor beams and girders. The District Court of New Jersey (236 Fed., 252) held this patent and divisional patent to Turner No. 985,119 invalid, and in sustaining the decree in that case the court of appeals said:

> There is to-day neither invention nor novelty in merely placing metal reinforcement in concrete at places at which strains come. The very principle of reinforcement, as the word denotes, is to give force to or strengthen the place that is weak by adding something that is strong. Invention in reinforcement is to be found only in discovering a new principle or in employing new means embodying the old principle. Therefore one striving to find a new principle, or to invent a new means of concrete reinforcement under the old principle, enters a well-known and widely practiced art, and must do something more than care for tensile strains at places where they are known to come. (*Turner* v. *Lauter Piano Co.*, 248 Fed., 930; 161 C. C. A., 48.)

In *Turner* v. *Deere & Webber Building Co.* (249 Fed., 752; 161 C. C. A., 662, 8th C. C. A.) the court, passing upon claims of Turner's divisional patent, No. 985,119, said:

> The evidence of prior practice in building and prior publications and patents show that little was left for patentable invention in placing the customary pieces of metal here or there, or turning them this way or that, in the mass of concrete.

The decree was sustained, holding the claims there in issue void for want of invention.

[2] As to the contention of greater facility in the Sinks structure for figuring strains and stresses, this would not support the claims of the patent, particularly as no method for figuring them is pointed out by Sinks. We are not aware that an alleged improvement in a structure, not in itself involving invention, would be patentable merely because it might be more easy to estimate its strength, or to figure its cost. From a reading of the opinion of Judge A. L. Sanborn, who heard the case in the district court, we are satisfied that a proper disposition of the case was there made. (256 Fed., 672.)

The decree of the district court is affirmed.

PATENT SUITS.

[Notices under section 4912, Revised Statutes, as amended February 18, 1922.]

682,523, R. Bohn, Blue dye, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

715,662, M. H. Isler, Coloring matters, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

724,789, R. Bohn, Coloring matter, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

734,325, O. Hess, Dyestuff, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

734,866, E. Hepp and C. Hartmann, Dyestuffs, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C. *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

739,145, R. Bohn, Dye, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

739,579, R. Bohn, Coloring matter, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

753,659, R. Bohn, Coloring matter, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

754,768, E. Hepp and E. Wolpert, Dyestuffs, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

787,859, R. H. Scholl and O. Bally, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

796,393, O. Bally, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

809,892, O. Bally and M. H. Isler, Coloring matters, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

818,336, O. Bally and H. Wolff, Dyes, etc., suit filed U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

818,992, O. Bally and M. H. Isler, Coloring matters, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C. *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

828,778, R. H. Scholl, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

844,914, R. Bohn, Dye, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

856,811, R. H. Scholl, Dyes, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

863,397, M. Isler and F. Kacer, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C. *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

876,810, M. A. Kunz, Dyes, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

906,367, O. Bally and H. Wolff, Coloring matter, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

925,917, F. Kacer, Coloring matter, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

929,442, M. H. Isler, Dyes, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

948,204, R. Bohn, Coloring matter, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

955,105, R. Scholl and M. H. Isler, Dye, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

958,325, A. Schmidt and G. Kränzlein, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

961,048, F. Ullmann, Dyestuffs, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

961,612, M. H. Isler and H. Wolff, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

970,878, R. Bohn, Dye, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

980,062, F. Singer, Manufacture of anthranol, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

1,003,268. R. Just and H. Wolff, Dyes, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C. *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

1,063,172. C. Rampini, Producing amino anthraquinones, etc.. suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

1,063,173. C. Rampini, Producing amino anthraquinones, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

1,104,943. R. Uhlenhuth, Process of producing amino anthraquinones. suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

1,145,934. A. Steindorff and R. Welde, Dyestuffs, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391–C, *The Chemical Foundation, Inc.* v. *National Aniline & Chemical Co. & Frank White.*

1,367,152. M. C. La Bonte, Sun and rain shields for automobiles, suit filed June 26, 1922, U. S. D. C., N. D. Calif., Doc. 757–Eq., *Automobile Glass Association* v. *De Luxe Windshield Company.*

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 21, 1922.

Leslie & Welsh, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Flora W. Pinkus, of 93 Third Avenue, New York, for registration of a trade-mark and trade-mark registered November 6, 1894, No. 25,463, to Leslie & Welsh, 297 Main Street, Buffalo, N. Y., and a notice of such declaration sent by registered mail to said Leslie & Welsh at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Leslie & Welsh, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 26, 1922.

Paragon Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of the Pabst Corporation, Milwaukee, Wis., the Decatur Brewing Co., 604 Cantrell Street, Decatur, Ill., and the Pabst Brewing Company, 917 Chestnut Street, Milwaukee, Wis., for registrations of trade-marks and trade-mark registered March 5, 1907. No. 61,117, to the Paragon Malt Extract Co., 3553 Third Avenue, New York, N. Y., and a notice of such declaration sent by registered mail to the said Paragon Malt Extract Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Paragon Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

The Rhubaral Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The William S. Merrell Company, of Fifth and Pike Streets, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 2, 1914, No. 97,440, to The Rhubaral Company, of 1151 Market Street, Wheeling, W. Va., and a notice of such declaration sent by registered mail to said The Rhubaral Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Rhubaral Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

Andrew H. Hanford, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Eureka Metal Polish Co. (Inc.), of 1638 North Fairfield Avenue, Chicago, Ill., for registration of a trade-mark and trade-mark registered December 26, 1911, No. 84,627, to Andrew H. Hanford, of 30 Burling Slip, New York, N. Y., and a notice of such declaration sent by registered mail to said Andrew H. Hanford at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Andrew H. Hanford, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

George Schneibel, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Don F. Lauro, of 289 Washington Street, New York, N. Y., for registration of a trade-mark and trade-mark registered September 17, 1901, No. 87,077, to George Schneibel, of 748 South High Street, Columbus, Ohio, and a notice of such declaration sent by registered mail to said George Schneibel at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Schneibel, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 8, 1922.

The Diastatic Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Dimex Malt Extract Co., Inc., 71 Reservoir Avenue, Port Jervis, N. Y., for registration of a trade-mark and trade-mark registered October 20, 1914 No. 100,528, to the Diastatic Malt Extract Co., Room 1006, Hearst Building, Chicago, Ill., and a notice of such declaration sent by registered mail to said Diastatic Malt Extract Co., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Diastatic Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 11, 1922.

The I. C. Hunsicker & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Pittsburgh Dry Goods Company, No. 935 Penn Avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered January 17, 1893, No. 22,342, to The I. C. Hunsicker & Co., Fourth and Washington Streets, Reading, Pa., and a notice of such declaration sent by registered mail to said I. C. Hunsicker & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said I. C. Hunsicker & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Changes in Classification.

(ORDER No. 2,762.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 137, Water Distribution (Division XXXIX), abolish subclasses—

Cocks and faucets—
85. Thermal—
92. High temperature.

Rotary pumps—
176. Peripheral supply,
End supply—
177. Plural shafts—
Series—
178. Reversely rotating,
179. Single shaft—
180. Opposed delivery,
181. Opposed supply,
182. Series,
183. Tangential delivery,

Rotary pumps—
Center supply—
184. Plural shafts—
185. Series—
186. Reversely rotating,
187. Single shaft—
188. Series—
189. Concentric,
190. Opposed supply—
191. Tangential delivery—
192. Angular vane
193. Tube-wheel,

Rotary pumps—
Center supply—
Single shaft—
194. Single supply—
195. Angular vane—
196. Tangential delivery,
197. End flow,
198. End delivery,
199. Center delivery,
200. Tangential delivery,
201. Tube-wheel.

The patents formerly contained in these subclasses have been placed for the most part in class 103, Pumps, reclassified in this order, and class 280, Air and Gas Pumps, subclass 11, Fan blowers.

In class 103, Pumps (Division IX), abolish the existing subclasses and establish in lieu thereof the following subclasses and definitions:

103.—PUMPS.
1. **Miscellaneous.**
2. **Multiple suction or discharge.**
3. **Reversible flow.**
4. **Combined types—**
5. Series.
6. **Multiple fluids—**
7. Single pump—
8. Cooperating piston,
9. Separate pulsation chambers.
10. **Convertible types.**
11. **Regulators—**
12. Combined controlling devices,
13. Throttle valve—
14. Float,
15. Thermostatic,
16. Expansible-chamber operated—
17. Valve controlled—
18. Float,
19. Multiple fluid pressure—
20. Valve controlled,
21. Flow controlled,
22. Starting and stopping devices—
23. Connectors and disconnectors—
24. Belt shifter,
25. Electric motor—
26. Float controlled,
27. Explosive engine,
28. Float—
29. Reciprocating rack,
30. Curved rack,
31. Gravity vessel—
32. Float controlled,
33. Expansible-chamber operated—
34. Float controlled,
35. Speed control—
36. Overflow to motor,
37. Variable capacity—
38. Stroke regulators,
39. Load distribution—
40. Check-valve controller,
41. By-pass—
42. Pressure operated.

103.—PUMPS—Continued.
43. **With motor—**
44. Fluid transmission—
45. Pump and motor circuit,
46. Drilled-well type,
47. Reciprocating motor—
48. Direct connected—
49. Multiple units,
50. Single acting plunger—
51. Double plunger,
52. Common piston,
53. Electric motor,
54. Explosive motor,
55. Gravity vessel,
56. Buoyant motor,
57. Rotary motor,
58. Current motor—
59. Rotary—
60. Water wheel—
61. Water bucket attached,
62. Endless-chain pump,
63. Endless chain,
64. Tide or wave motor—
65. Vane or bucket—
66. Oscillating,
67. Rotary,
68. Float—
69. Pivoted,
70. Vertically guided,
71. Weight.
72. **Endless chain—**
73. Piston type—
74. Pistons.
75. **Momentum-liquid piston—**
76. Vibrating tube,
77. Hydraulic ram—
78. Multiple drive pipes,
79. With pump.
80. **Paddle.**
81. **Rocking channel.**
82. **Scoop.**
83. **Rotary—**
84. Viscosity type,
85. Dipping channel—
86. Helicoidal,
87. With motor,
88. Screw and centrifugal,

103.—PUMPS—Continued.
Rotary—
89. Screw—
90. Drilled-well type,
91. Rotary casing,
92. Multiple impellers—
93. Series,
94. Reversely rotating,
95. Centripetal,
96. Centrifugal—
97. Regulators,
98. With turbo diffuser,
99. Tube type—
100. Radiating channels,
101. Bowl type,
102. Drilled-well type,
103. Center intake—
104. Opposed intakes,
105. Multiple impellers—
106. Convertible,
107. Parallel,
108. Series—
109. Opposed intakes,
110. Concentric,
111. Elements—
112. Balancing devices,
113. Priming and venting devices,
114. Liners and materials,
115. Impellers.
116. **Expansible chamber—**
117. Rotary—
118. With motor,
119. Drilled-well type,
120. Variable capacity,
121. Rotary cylinder,
122. Movable abutment—
123. Reciprocating,
124. Oscillating,
125. Rotary,
126. Intermeshing impellers—
127. Beveled,
128. Helical,
129. Alternating pistons,
130. Planetary piston—
131. Nonrotating—
132. Movable abutment,
133. Nutating axis,

The patents formerly contained in these subclasses have been placed for the most part from class 137, Water Distribution, subclasses 34.3, Drain valves, Automatic control, By thermal element, and 161, High temperature, and the subclass indented thereunder, hereinafter established.

In class 137, Water Distribution (Division XXXIX), establish subclasses—

Drain valves—
34. Manual control,
34.1. Automatic control—
34.2. Liquid pressure,
34.3. By thermal element.
161. **High temperature—**
162. Valve closing, fuse operated.

The patents contained in subclasses 34, 34.1, and 34.2, above, have been taken for the most part from class 103, Pumps, subclass 60, Elements, Cut-off and drain devices, hereinafter abolished, and those contained in subclasses 34.3, 161, and 162 have been taken for the most part from class 137, Water Distribution, subclasses 35, Cocks and faucets, Thermal, and 92, Cocks and faucets, Thermal, High temperature, hereinbefore abolished.

Abolish class 160, Steam and Vacuum Pumps (Division XVIII), the patents formerly contained in this class having been placed for the most part in class 103, Pumps, reclassified in this order.

In class 253, Motors—Fluid (Division IX), abolish the following subclasses with their definitions:

163.—PUMPS—Continued.
Expansible chamber—
Rotary—
134. Movable vane—
135. Reciprocating—
136. Radial—
137. Diametrically cooperating—
138. Intersecting,
139. Axially moving,
140. Oscillating—
141. Radial pivot—
142. Axial,
143. Rotary,
144. Stationary pivot,
145. Oscillating piston—
146. Valved piston,
147. With motor,
148. Collapsible chamber—
149. Rotary compress,
150. Diaphragm—
151. Valved,
152. With motor,
153. Reciprocating piston—
154. Fuel-feeder types,
155. Drilled-well type—
156. Double acting,
157. Axially rotating,
158. Movable cylinder—
159. Oscillating,
160. Rotary—
161. Multiple cylinders—
162. Parallel,
163. Flow controlling,
164. Fluid transmission—
165. Liquid,
166. Opposing pistons,
167. Successive pistons—
168. Differential pistons,
169. Multiple cylinders—
170. Duplex,
171. Aligned—
172. Center inlet and delivery,
173. Annularly disposed,
174. Radiating,

163.—PUMPS—Continued.
Expansible chamber—
Reciprocating piston—
175. Double acting—
176. Multiple cylinders—
177. Parallel,
178. Valved piston—
179. Drilled-well type—
180. Valve puller,
181. Removable barrel,
182. Multiple cylinders—
183. Duplex,
184. Aligned cylinders—
185. Center supply,
186. Center delivery,
187. Solid piston combined,
188. Hollow piston rod—
189. Valved piston combined,
190. Solid piston combined,
191. Multiple cylinders,
192. Double-acting piston—
193. Hollow suction rod,
194. Successive pistons—
195. Combined solid piston—
196. Hollow piston rod,
197. Reversed valves,
198. Oppositely moving—
199. Reversed valves,
200. Aligned,
201. Solid piston combined.
202. Elements—
203. Priming and venting,
204. Agitating, flushing, and fluid packing,
205. Operating devices—
206. Power and load equalizers,
207. Multiple actuators,
208. Animal or vehicle,
209. Vehicle and cable,
210. Quick return,
211. Spring or weight,
212. Flexible transmission,
213. Cams and eccentrics,
214. Rack and pinion,
215. Oscillating lever,

163.—PUMPS—Continued.
Elements—
216. Cylinders, liners, and materials,
217. Stocks and casings,
218. Supports—
219. Tube-well types,
220. Sand traps and strainers,
221. Drain devices,
222. Accumulators,
223. Cushioning devices—
224. Air and vacuum chambers,
225. Valved pistons,
226. Releasable piston-rod and cable couplings,
227. Valve actuation,
228. Valves—
229. Standing,
230. Multiple.
231. Pneumatic displacement and air jet.
232. Aerated column—
233. Series.
234. Pneumatic displacement—
235. Vacuum and pressure,
236. Vacuum,
237. Hydraulic compression,
238. Multiple chambers—
239. Series.
240. Automatic valve actuation—
241. Electric motor,
242. Gravity vessel—
243. Movable pump chamber,
244. Rotary motor,
245. Reciprocating motor—
246. Float controlled,
247. Mechanically controlled,
248. Float.
249. Combustion—
250. Momentum liquid piston,
251. Vacuum.
252. Steam and vacuum—
253. Boiler feeders,
254. Steam loop.
255. With generator,
256. Multiple chambers—
257. Duplex.

WM. A. KINNAN, *Acting Commissioner.*

Changes in Classification.

(ORDER No. 2,763.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 22, 1922.

It is hereby directed that class 76, Metal Tools and Implements—Making, be transferred from Division XIII to Division XIV, to take effect immediately.

WM. A. KINNAN,
Acting Commissioner.

Changes in Classification.

(ORDER No. 2,768.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 5, 1922.

The transfer of the following classes is hereby directed, to take effect immediately:

Classes 9, Boats and Buoys; 114, Ships; 115, Marine Propulsion, and 124, Air Guns, Catapults, and Targets, from Division XLIV to Division XXII.

Classes 221, Dispensing, and 225, Dispensing Beverages, from Division XLIII to Division XLIV.

Class 107, Bread, Pastry, and Confection Making, from Division XV to Division XLIV.

WM. A. KINNAN,
Acting Commissioner.

Interference Defined.

RULE 93. An interference is a proceeding instituted for the purpose of determining the question of priority of invention between two or more parties claiming substantially the same patentable invention. In order to ascertain whether any question of priority arises the Commissioner may call upon any junior applicant to state in writing the date when he conceived the invention under consideration. All statements filed in compliance with this rule will be returned to the parties filing them. In case the applicant makes no reply within the time specified, not less than ten days, the Commissioner will proceed upon the assumption that the said date is the date of the oath attached to the application. The fact that one of the parties has already obtained a patent will not prevent an interference, for, although the Commissioner has no power to cancel a patent, he may grant another patent for the same invention to a person who proves to be the prior inventor.

THE
OFFICIAL GAZETTE
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Issue of July 25, 1922.

Patents	638—No. 1,423,507 to No. 1,424,144,	inclusive.
Designs	21—No. 61,266 to No. 61,286,	inclusive.
Trade-Marks	324—No. 156,974 to No. 157,297,	inclusive.
Labels	27—No. 24,743 to No. 24,769,	inclusive.
Prints	13—No. 6,223 to No. 6,235,	inclusive.
Reissues	10—No. 15,417 to No. 15,426,	inclusive.
Total	1033	

Disclaimers.

899,446.—*Robert Faries*, Williamsport, Pa. PRESSURE INDICATOR AND REGULATOR. Patent dated September 22, 1908. Disclaimer filed July 14, 1922, by the assignee, *A. Schrader's Son, Incorporated.*

Hereby disclaim claims 1, 2, 3, 4, 5, 7, 10, 11, 12, and 14 of the said Patent No. 899,446, the said claims reading as follows:

"1. The combination of movably mounted valve mechanism, comprising a valve and its seat, the valve being movable to and from its seat, and pressure-indicating means for showing varying pressures, operated by the movement of said mechanism.

"2. The combination of movably mounted valve mechanism, comprising a valve and its seat, the valve being movable to and from its seat, means for placing said mechanism in communication with the pressure-containing structure, at all points in the movement of said mechanism, and indicating means for showing varying pressures, operated by the movement of said mechanism.

"3. The combination of a stem or casing, adapted to be attached to a fluid-pressure receiving structure, a valve mechanism movably mounted in said casing, comprising a valve and its seat, to and from which the valve is movable, and indicating means for showing varying pressures within said structure, operated by the movement of said mechanism.

"4. The combination of a stem or casing adapted to be attached to a fluid-pressure receiving structure, an inwardly opening valve mechanism movably mounted in said casing, an extensible and contractible connection between said valve mechanism and the interior of the pressure-receiving structure, and indicating means operated by said valve mechanism.

"5. The combination of movably mounted valve mechanism, comprising a valve and its seat, the valve being movable to and from its seat, pressure-indicating means for showing varying pressures operated by the movement of said mechanism, and automatic means for relieving excess pressure.

"7. The combination of a stem or casing adapted to be attached to a fluid-pressure receiving structure, an inwardly opening valve mechanism movably mounted in said casing, an extensible and contractible connection between said valve mechanism and the interior of the pressure-receiving structure, indicating means operated by said valve mechanism, and a spring opposing the movement of the indicating means by pressure on the valve mechanism.

"10. The combination with a pneumatic tire, of a pressure indicator comprising a tube or casing attached to the tire for showing varying pressures within the tire, and a member slidably connected with said tube or casing, having a pressure-receiving part in communication with the interior of the tire.

"11. The combination of movably mounted valve mechanism, comprising a valve and its seat, to and from which the valve is movable, pressure indicating means operated by the movement of such mechanism, a spring yieldingly opposing the movement of the indicating means by pressure, and means to positively prevent movement of the indicator by pressure on said mechanism.

"12. The combination of movably mounted valve mechanism, comprising a valve and its seat, to and from which the valve is movable, pressure indicating means operated by the movement of such mechanism, a spring yieldingly opposing the movement of the indicating means by pressure, and a screw cap adapted to engage the valve mechanism and hold it from movement by pressure.

"14. The combination of a pressure indicator having a spring acting yieldingly in opposition to pressure to move the indicator, and means to positively hold the indicator from movement by such pressure."

Hereby further disclaim from the scope of claim 6 and of claim 13 (1) any combination which does not constitute an inflation valve for pneumatic tires which "is normally closed to prevent egress of air from within the tube, but yields inwardly to permit the ingress of air thereto, in the well known manner" and (2) any combination of elements in which the "valve mechanism" set forth in said claim 6 and in said claim 13 is not that "through which air is injected into the tire and therein retained."

1,035,185.—*William P. Hammond*, New York, N. Y., and *Theodore A. Hammond*, Passaic, N. J. VALVE FOR PNEUMATIC TIRES. Patent dated August 13, 1912. Disclaimer filed July 14, 1922, by the assignee, *A. Schrader's Son, Incorporated.*

Hereby disclaim from the scope of each and all of the claims of said Patent No. 1,035,185, (1) any combination which does not constitute a "valve for pneumatic tires" as such term is understood in the art, and was so understood at the date of said patent, that is to say, a valve or valve stem constructed and adapted for connection with a pump or other inflating means for the purpose of inflating the tire, and (2) any combination of elements in which the "valve mechanism" set forth in the claims does not comprise the inwardly-opening check valve and seat of such pneumatic tire valve or valve stem.

Condition of Applications Under Examination at Close of Business July 15, 1922.

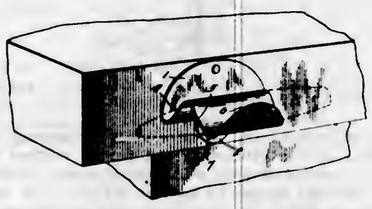
(Total number of applications waiting action, excluding Trade-Mark division, 67,657; Trade-Mark division, 8,522. Oldest new case, May 18; oldest amended, Apr. 18, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Dec. 3	*Jan. 12	929
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Aug. 5	July 21	1,950
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 16	Aug. 19	933
234	4. MERRITT, A. D., Conveyers; Conveyors, Fluid-Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 1	*Jan. 7	1,440
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 26	Oct. 7	1,128
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Oct. 5	*Jan. 6	1,342
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Oct. 3	Nov. 12	2,404
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 31	*May 12	907
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	June 2	*May 20	1,116
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 27	*Apr. 4	1,096
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 20	*Feb. 28	684
322	12. PIERCE, P. P., Machine Elements	Dec. 10	*Mar. 15	1,231
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 23	*Mar. 13	1,702
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	May 24	*Mar. 25	1,242
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 1	Sept. 9	1,750
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	July 20	July 16	2,309
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 26	Feb. 4	1,375
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	June 1	May 6	2,404
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	June 7	Dec. 12	1,291
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Feb. 1	*Jan. 20	1,800
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Sept. 21	Dec. 29	906
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	Nov. 1	*Mar. 25	649
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	July 6	Nov. 6	824
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Sept. 17	*Feb. 16	1,201
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 8	*Apr. 19	418
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Sept. 26	Dec. 31	1,054
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 19	Sept. 12	2,015
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 28	Sept. 16	1,663
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Oct. 15	*May 8	640
152	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	*Jan. 3	*Apr. 13	1,470
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 27	Sept. 12	2,152
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Sept. 2	*Apr. 1	970
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 30	*Feb. 10	922
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	*Mar. 22	*Mar. 22	548
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 13	*Apr. 26	858
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 8	*Jan. 13	1,794
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Sept. 6	Aug. 19	1,878
378	38. IDE, G. E., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Oct. 22	Oct. 20	1,756
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	May 18	June 8	2,315
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	July 30	Oct. 13	2,853
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Feb. 9	*Mar. 1	759
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Aug. 12	July 14	1,966
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 17	Oct. 4	1,858
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 25	*Mar. 20	645
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Dec. 19	*Feb. 3	1,241
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 19	Dec. 5	1,292
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Sept. 18	*Jan. 31	1,259
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Apr. 7	Apr. 18	2,837
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	Sept. 18	*Jan. 20	5,920
	Designs	Dec. 1	Dec. 20	2,484
	Labels and Prints	*June 24	*July 10	108

PATENTS

GRANTED JULY 25, 1922.

1,423,507. CIGAR REST. LOUISE ALLEN, Hawarden, Iowa. Filed Dec. 3, 1920. Serial No. 428,054. 1 Claim. (Cl. 131—51.)



As a new article of manufacture, a cigar holder consisting of an elongated strip of metal having a tongue formed within the body of the strip, said tongue and the adjacent end of the strip being aligned to permit of attachment to a vertical wall, and having openings for fasteners, the free end of the strip being bent to approximately right angles to the tongues and adjacent end of the strip and formed into a plurality of looped portions, the outermost of said looped portions being of suitable shape and size to hold a cigar and in a position spaced substantially apart from the wooden or other vertical wall to which the device may be attached.

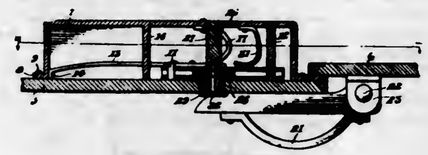
1,423,508. CAR-SEAT CONSTRUCTION. FRANK ANDRUSYSZYN, Revloc, Pa. Filed Dec. 1, 1921. Serial No. 519,173. 1 Claim. (Cl. 155—101.)



A car seat construction comprising a plurality of seats arranged in series, each seat comprising a base frame, a hinged back carried by each base frame, a connecting rod pivotally secured to the corresponding sides of the seat backs, means for shifting said rod to cause a simultaneous movement of the seat backs and spring devices associated with said connecting rod to prevent vibration thereof when arranged in a set position.

1,423,509. SLIDING-DOOR LOCK. FRANK ANDRUSYSZYN, Revloc, Pa., assignor of one-fourth to Wasyl Klymko, Nanty Glo, Pa., and one-fourth to Anna Senczak, Revloc, Pa. Filed Dec. 1, 1921. Serial No. 519,174. 5 Claims. (Cl. 70—31.)

3. In combination with a sliding door having a transversely swinging bolt connected thereto provided with oppositely extending shoulders, a sliding locking plate adapted to engage one of said shoulders, a member stationary with respect to said door and adapted to engage the other of said shoulders, said last named shoulder being engageable with said stationary member when the door is closed and releasable therefrom upon slight further movement of the door in the direction of its closing movement, means to move said locking plate to disengage the same from the first named shoulder of said bolt,

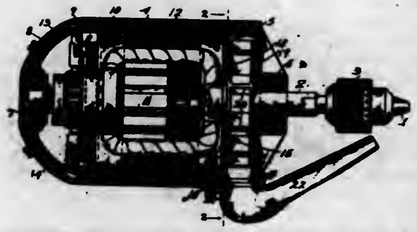


said locking plate and said stationary member having openings adapted to be alined by adjustment of the locking plate for admitting said bolt, and means to yieldingly urge the bolt outwardly through said openings upon alinement of said openings and such further movement of the door in the direction of its closing movement.

1,423,510. METHOD OF CONDUCTING THE AMMONIA-SODA PROCESS. EDWARD E. ARNOLD, Coventry, and PALMER ST. CLAIR, Jr., Providence, R. I., assignors to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 11, 1920. Serial No. 365,087. 9 Claims. (Cl. 23—22.)

8. The improvement in the ammonia soda process which comprises expanding a compressed gas in proximity to but separated from a body of ammoniated brine to absorb the heat generated by the reactions resulting in the production of sodium bicarbonate.

1,423,511. ROUTING TOOL. JAMES N. BAKER, Brooklyn, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed July 31, 1918. Serial No. 247,471. 3 Claims. (Cl. 90—12.)

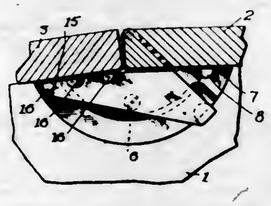


1. In a routing tool, the combination with a tool carrier, means for driving the carrier, a fan driven by the carrier, driving means for producing a current of air, and enclosed connections leading from the fan to the working end of the tool whereby an air current is directed to the tool point and the point kept free from chips.

1,423,512. TRANSMISSION AND MOTOR OIL. WALTER K. BOILEAU, Baltimore, Md., assignor to Pittsburgh Oil Refining Corporation, a Corporation of Delaware. Filed June 5, 1922. Serial No. 566,151. 2 Claims. (Cl. 87—9.)

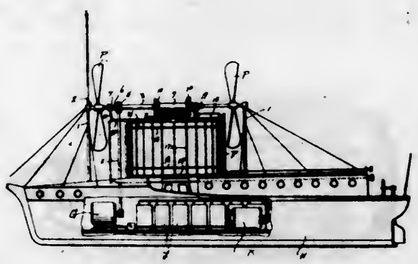
1. An oil for the lubrication of the cylinders, bearings, transmission and the fabric linings of transmission and brake bands of internal combustion engines having the planetary type of transmission used in propelling automobiles and the like, consisting of petroleum oil of the consistency ordinarily used for the lubrication of the cylinders of internal combustion engines, combined with 2 to 12% neutral wool fat.

1,423,513. COMBINED HINGE AND STOP FOR DESK LIDS AND THE LIKE. CHARLES A. BROWN, Gardner, Mass., assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 20, 1919. Serial No. 339,407. 2 Claims. (Cl. 16—191.)



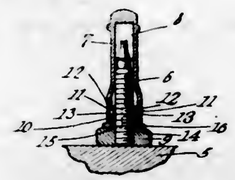
2. A hinge for the movable lid of a desk, said hinge having a stationary element bearing against the desk side, with its edge removed or offset therefrom, and a movable element secured to said lid and providing a portion embracing the offset edge of said stationary element, said portion cooperating with a stop on said stationary element to limit the opening movement of said lid, said movable element being removed from the plane of attachment of said stationary element, whereby to clear the attaching means of said stationary element.

1,423,514. POWER PLANT. WILLIAM PAUL BUTUSOV, Norfolk, Va. Filed Jan. 24, 1921. Serial No. 439,467. 2 Claims. (Cl. 170—10.)



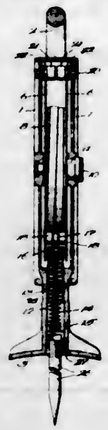
1. The combination with a movable body including a deck, an upstanding frame carried by the deck, the deck and frame having vertically opposed bearings, a wind driven element rotatably supported by said bearings, a shaft supported by the deck above the frame, a sleeve mounted upon the shaft for driven connection with the wind driven element, coacting means carried by the shaft and the sleeve for causing the shaft and sleeve to rotate in unison, said means including a member keyed to the shaft for rotation therewith and for movement lengthwise thereof, and means carried by the frame for imparting movement to the member lengthwise of the shaft.

1,423,515. DUST CAP. ALBERT B. CATTERALL, Ottumwa, Iowa. Filed Mar. 30, 1920. Serial No. 369,976. 1 Claim. (Cl. 152—12.)



In combination with a valve stem, a securing nut positioned on the valve stem and having resilient upwardly extending fingers, said fingers having enlargements, said nut having an annular groove, a cap of a diameter to engage the valve stem, said cap having an enlarged lower portion providing a clearance for the fingers and having a flange formed at its end, said flange adapted to be fitted in the annular groove, said cap having a groove providing a shoulder disposed in spaced relation with the lower end of the cap, said shoulder adapted to cooperate with the enlargements of the fingers, for forcing the flange of the dust cap into the annular groove of the securing nut, and an annular shoulder formed adjacent to the base of the cap to restrict movement of the cap with respect to the securing nut.

1,423,[illegible]. TAPE REEL. CARL F. DIECKMANN, Chicago, Ill., assignor to Eugene Dietzgen Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 25, 1921. Serial No. 447,712. 7 Claims. (Cl. 242—99.)



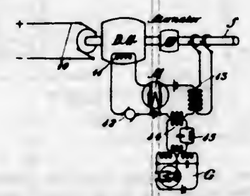
6. A tape reel having a frame, a reel journaled therein, the reel having cheek plates for confining the tape laterally, a member mounted in the frame and projecting radially inward between the cheek plates and a pair of friction elements mounted on said member, and adapted to engage the inner surface of said plate, said elements being spring pressed towards said plates for maintaining contact therewith and creating friction to prevent overthrow.

1,423,517. LAMINATED TALKING-MACHINE RECORD. VICTOR H. EMERSON, New York, N. Y., assignor to Emerson Phonograph Company, Inc., a Corporation of New York. Filed Sept. 27, 1920. Serial No. 413,100. 9 Claims. (Cl. 154—43.)



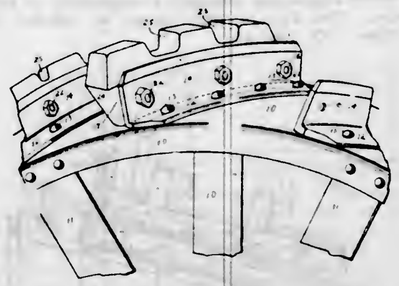
1. A talking machine record, including a base of relatively thin sheet material, an intermediate layer of fluxible bituminous material forming the principal bulk of the record, and a thin outer layer of record stock.

1,423,518. FREQUENCY REGULATOR. LLOYD ESPENSCHIED, Queens, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 11, 1920. Serial No. 388,305. 7 Claims. (Cl. 171—119.)



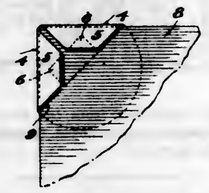
1. In a synchronizing system a mechanism undergoing a periodic cycle, means to generate an alternating current whose frequency is determined by the frequency of said cycle, means to generate an alternating current whose frequency is independently determined, means to produce a current proportional to the difference between said frequencies, and means responsive to said current for regulating the frequency of said periodic cycle.

1,423,519. DETACHABLE TREAD FOR TRACTOR WHEELS. EUGENE J. FARKAS, Detroit, Mich., assignor to Ford Motor Company, Highland Park, Mich., a Corporation of Delaware. Filed Jan. 13, 1921. Serial No. 436,889. 7 Claims. (Cl. 301—44.)



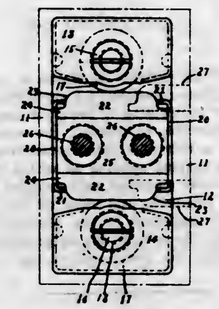
2. In a device of the class described a tractor wheel having a rim, a plurality of lugs secured thereto having blade portions extending from the rim, said blade portions having spaced openings therein, a supporting member of angular cross section having openings in one web thereof to register with the openings in said blade, attaching means removably mounted in said alined openings, diagonal brace members formed integral with the webs of the supporting member at the ends thereof and a somewhat resilient tread member vulcanized to said second web of the supporting member and provided with a plurality of channels therein whereby said tread member may be divided into a plurality of contact pads.

1,423,520. PAPER FASTENER. BENJAMIN H. FRIEDMAN, New York, N. Y. Filed Oct. 7, 1921. Serial No. 506,082. 3 Claims. (Cl. 24—67.)



3. A paper fastener comprising a sheet metal plate having a pair of wings inwardly bent to overlie sheets of paper to be secured together, said wings having points doubled over to form portions on said wings of double thickness.

1,423,521. DOOR BUFFER. JOSEPH GALAMB, Detroit, Mich., assignor to Ford Motor Company, Highland Park, Mich., a Corporation of Delaware. Filed Jan. 3, 1921. Serial No. 434,631. 6 Claims. (Cl. 16—85.)

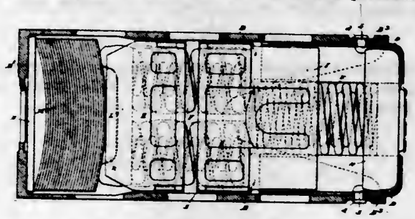


3. In a device of the class described, a supporting member adapted to be secured to a door frame comprising an intermediate portion and pockets formed at either end thereof, rollers mounted in said pockets adapted to project therefrom, a second assembly supporting member having flanges at either end thereof provided with ears at the ends of said flanges, contact members mounted between said flanges and provided with ears adapted to co-act with the first mentioned ears, and a compressible block mounted between said contact members and said flanges, whereby when said contact members are forced between said rollers said block may be compressed.

1,423,522. YIELDING RESISTANCE UNIT FOR CAR BUFFERS. RICHARD D. GALLAGHER, Jr., Flatbush, N. Y., assignor to Standard Coupler Company, New York, N. Y., a Corporation of New Jersey. Filed July 8, 1921. Serial No. 483,349. 8 Claims. (Cl. 213—64.)

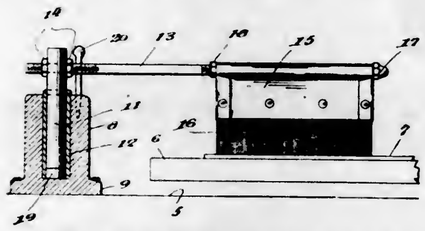
1. A self-contained resilient unit for car buffers, comprising a barrel open at one end, a series of followers movable longitudinally in the barrel and adapted to contact with each other, spring members normally holding the followers separated and of different yielding capacity whereby the followers will contact with each other successively, a dominant spring member for yieldingly resist-

ing the movement of the followers as a unit when brought together, and means connected with the barrel for partially closing the open end of the barrel and preventing



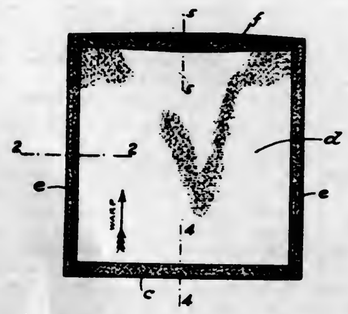
the escape of the followers from the barrel, the face of one of said followers being exposed through the partially closed end of the barrel.

1,423,523. BRUSH FOR TALKING MACHINES. THOMAS S. GROW, Allentown, Pa. Filed Apr. 7, 1921. Serial No. 459,432. 1 Claim. (Cl. 274—1.)



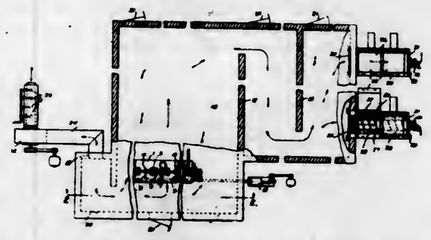
A brush device for talking machines of the disk type, employing a rotatable turntable for supporting the record disk; said device comprising a brush, a supporting arm for the brush adjustable to position the brush across the face of the disk, a rotatable spindle carrying the arm, a support having a bearing opening in which the spindle is loosely and removably mounted, said support being mounted alongside the turntable and clear of the same, and a member removably mounted in the bearing opening and positioned beneath the spindle for determining the elevation of the spindle, the lower end of the latter seating on said member.

1,423,524. WOVEN TUBULAR FABRIC. WILLIAM E. HILL, Philadelphia, and CARRODUS V. FIRTH, Ashbourne, Pa., assignors to Porter Brothers Textile Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 24, 1919. Serial No. 278,944. 1 Claim. (Cl. 139—72.)



A one piece bag or pillow cover having a substantially broad border on the four edges thereof, the border and the central portion surrounded by the border being of different weaves, the central portion and the border along one edge being woven in two plies, while the borders along the other three edges are woven in a single ply, so that the four borders are substantially the same in appearance to form a bag open at one end and closed along the other three ends with a surrounding broad border, which is arranged to project outwardly from the pillow to form a projecting edge trimming on the four edges of the pillow when the cover is in place and the faces of the two ply border are secured to each other to close the open end of the cover.

1,423,525. PROCESS FOR TREATING RUBBER-CONTAINING LATEX. ERNEST HOPKINSON, New York, N. Y., assignor to General Rubber Company, a Corporation of New Jersey. Filed Jan. 16, 1920. Serial No. 351,945. 33 Claims. (Cl. 18—50.)

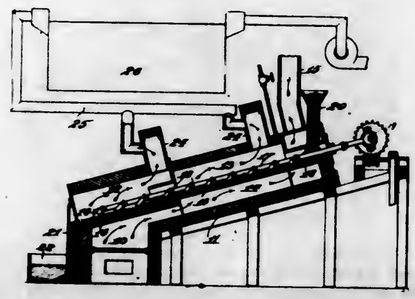


1. A process for treating latex or similar material which comprises subjecting finely divided latex to a drying gas, withdrawing moisture from the latex, precipitating solid particles of latex and compacting the particles.

1,423,526. PRODUCT OBTAINED FROM RUBBER-CONTAINING LATEX. ERNEST HOPKINSON, New York, N. Y., assignor to General Rubber Company, a Corporation of New Jersey. Filed Jan. 16, 1920. Serial No. 351,946. 16 Claims. (Cl. 18—50.)

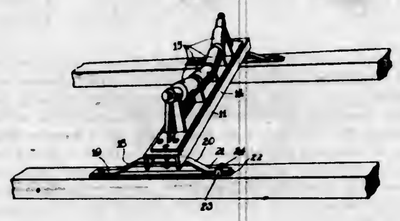
1. A crude rubber derived from masses of latex dried in comminuted form and compacted.

1,423,527. METHOD OR PROCESS OF DISTILLATION OF MATERIAL CARRYING A PERCENTAGE OF VOLATILE MATTER. GEORGE McD. JOHNS, St. Louis, Mo., assignor, by mesne assignments, to The Industrial Process Engineering Company, a Corporation of Delaware. Filed July 16, 1920. Serial No. 396,837. 10 Claims. (Cl. 196—21.)



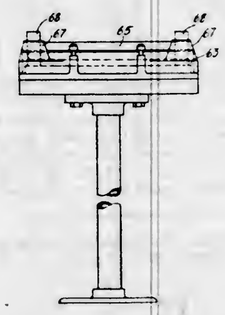
1. The method of distilling oil-bearing shale and other materials to obtain the volatile content thereof which comprises feeding the material in a pulverized condition and in a continuous layer of substantially uniform thickness over and upon a stationary heated inclined plane.

1,423,528. SELF-TRAINING BELT CONVEYER. MYRON A. KENDALL, Aurora, Ill., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill., a Corporation of Illinois. Filed July 8, 1921. Serial No. 483,270. 9 Claims. (Cl. 74—51.)



1. In a belt conveyer, the combination with a traveling load carrying belt, of a transverse carrier for the belt and a spring yielding downwardly and forwardly with respect to the direction of movement of the belt supporting each end of the carrier.

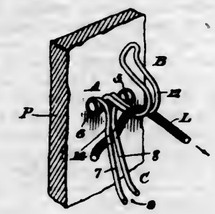
1,423,529. LEVEL INDICATOR FOR PLATFORMS. GEORGE W. KING, deceased, late of Marion, Ohio, by Sarah King, executrix, Marion, Ohio, and Charles B. King, Benjamin Jacoby, and Herbert E. Roush, Marion, Ohio, and Grant Holmes, Danville, Ill., assignors to The Marion Steam Shovel Co., Marion, Ohio. Original application filed June 2, 1917, Serial No. 172,355. Divided and this application filed Aug. 24, 1918. Serial No. 251,341. 3 Claims. (Cl. 33—206.)



1. A device to indicate the position of a tiltable platform comprising a shallow container for a fluid having a flat transparent top arranged parallel with the platform to cause the fluid in said container to form a chord-like line parallel with the axis about which said platform is tilted, and also having intersecting conduits containing a fluid and provided at their ends with vertical sockets and plungers mounted in said sockets and having parts adapted to project above the tops of the respective sockets.

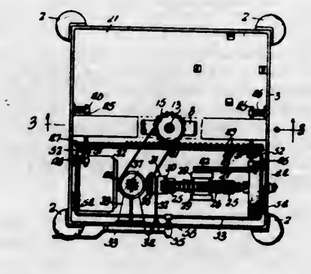
1,423,530. CLOTHESLINE HANGER. FRED O. LAKE, Park Lane, Va. Filed Nov. 15, 1921. Serial No. 515,266. 3 Claims. (Cl. 24—131.)

1. In clothes line supports, a base member comprising two eyelets, a line supporting member, and a line securing member bent to form a third point of support with the



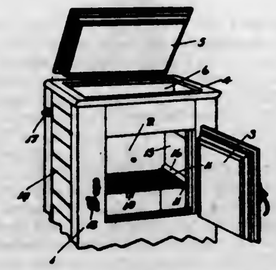
eyelets when under tension and then to diverge from the plane of the support to form a wedging recess therewith.

1,423,531. DRIVING MECHANISM FOR WASHING MACHINES. CHARLES C. LAMB, Chicago, Ill., assignor of one-half to Willard M. McEwen, Chicago, Ill. Filed Nov. 19, 1919. Serial No. 339,170. 4 Claims. (Cl. 74—50.)



1. In a gearing of the character described, the combination of a support, an upright operating shaft rotatably mounted in said support, two toothed wheels and a pulley fixed to said shaft, an endless chain having teeth part way around the same for alternately engaging said wheels for oscillating said shaft, a motor on said support for driving said chain and pulley in one direction, and a clutch mechanism for connecting either the chain or the pulley with said motor.

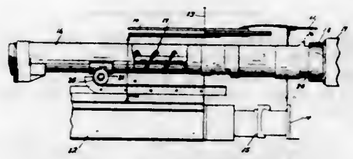
1,423,532. REFRIGERATOR. CHARLES H. LEONARD, Grand Rapids, Mich., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Apr. 16, 1919. Serial No. 291,408. 1 Claim. (Cl. 62—43.)



In a refrigerator, having an ice chamber, a coil formed of a plurality of parallel horizontal pipes connected together and located horizontally in the ice chamber a

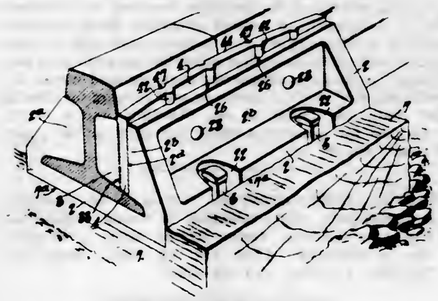
distance above the bottom of the chamber, a pipe supporting one end of the coil and having connection thereto whereby water entered into the pipe is carried to the coil, an outlet pipe connected to and leading from the coil through the front of the refrigerator, means at the front end of the outlet pipe to control the passage of water from the coil, means for supplying water to said supporting pipe from a point outside of the ice chamber, a cleat or block on which the opposite end of the coil rests, and a lining to the ice chamber lying vertically alongside of the cleat and of the coil, said lining having an inwardly struck portion coming over the ends of the coil, substantially as and for the purposes described.

1,423,533. LOCOMOTIVE STOKER. NATHAN M. LOWER, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Apr. 7, 1920. Serial No. 371,909. 6 Claims. (Cl. 198—15.)



1. In a locomotive stoker, the combination with a locomotive and tender, a fuel conduit comprising a section fixedly mounted on the locomotive, and a section having a sliding and flexible connection with the first-named section, means for supporting the second-named section on the ender and permitting its longitudinal and lateral movement, and a stop for limiting the backward movement of such section.

1,423,534. RAIL CHAIR. CHARLES MALITCH, Hamilton, Ohio. Filed Apr. 18, 1922. Serial No. 554,641. 4 Claims. (Cl. 238—207.)



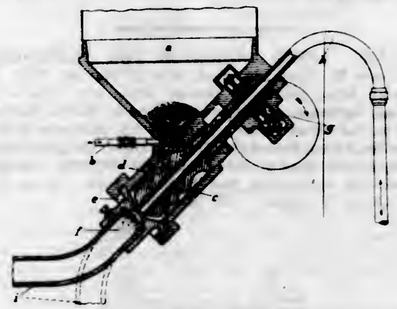
1. A combined rail chair and joint comprising a chair including a base adapted for being secured upon a rail tie, the said base having a seat, a pair of opposing rail ends whose base portions are received on the chair seat, the said chair having at each side a vertically extended longitudinal flange, one of the said flanges opposing the adjacent web faces at one side of the rail ends, a filler member at the other side of the webs of the rail ends, the said filler opposing its respective adjacent vertical chair flange, a wedge interposed between the said filler and the adjacent rail chair flange, and means for clamping the several parts in interlocked engagement, the said wedge member having its upper edge crowned from the ends toward the center whereby to present a top surface on the wedge adapted for being engaged by the flanges of passing car wheels when the said wedge works upwardly to bring the said upper edge in a plane of travel of the flanges of the car wheel.

1,423,535. BRACKET. FRANK P. MILLER, Meadville, Pa. Filed Dec. 16, 1919. Serial No. 345,430. 3 Claims. (Cl. 287—14.)



1. In a bracket, the combination of a mounting member and a yielding member; a joint between the members comprising joint plates with plane opposing surfaces, said plates being of resilient material; an interposed washer between the surfaces, said washer having a greater thickness at its outer periphery than at the center; and a connection between the plates at the axis of the joint, said connection springing the plate to effect a spring-pressed contact between the plates and washer at the periphery of the washer.

1,423,536. APPLIANCE FOR THROWING MORTAR FOR THE PLASTERING OF WALLS AND THE LIKE. THEODOR MOSER, Berlin-Grunewald, Germany. Filed Oct. 29, 1920. Serial No. 420,552. 2 Claims. (Cl. 72—130.)



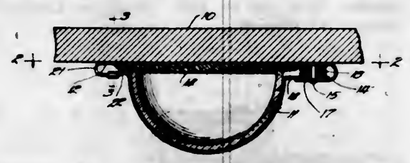
1. Mortar throwing apparatus comprising a hopper, a casing into which the hopper discharges, a nozzle leading from the casing, a screw conveyer arranged for rotation in the casing and the flight of which decreases in pitch toward the discharge end of said conveyer, means to discharge compressed air through the conveyer and the said nozzle, and driving means for the conveyer.

1,423,537. URINAL. GERHARD MÜLLER, Munich, Germany. Filed July 19, 1920. Serial No. 397,537. 3 Claims. (Cl. 128—295.)



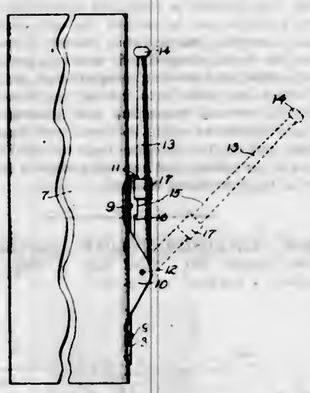
1. A urinal comprising a receptacle having a neck, a tube having its inner end arranged in and secured to the neck, an attaching element secured to said tube, and an elastic truncated-conical sleeve arranged in said tube and having its outer, larger end secured around the outer end of said tube.

1,423,538. ASH RECEPTACLE. RUDOLPH OZABAL, Chicago, Ill. Filed Mar. 10, 1921. Serial No. 451,111. 2 Claims. (Cl. 131—51.)



2. An ash receptacle comprising a ring adapted to be secured to the under side of a table top or the like, a tray having an outwardly extending apertured lug, and means for pivotally securing the tray to the ring, the means comprising a U-shaped member formed integrally with the ring, the lug being interposed between the legs of the U-shaped member, a pin secured in the legs of the U-shaped member and passing through the aperture in the lug, and a spring disposed around the pin and interposed between one of the legs of the U-shaped member and the lug.

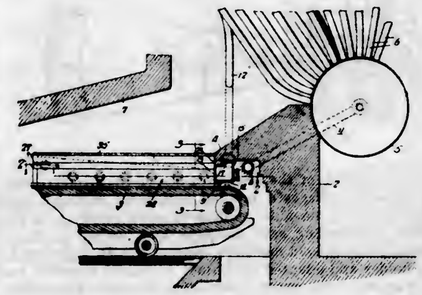
1,423,539. POCKETBOOK PROTECTOR. MARTIN J. PALMER, Chicago, Ill. Filed Sept. 3, 1921. Serial No. 498,510. 4 Claims. (Cl. 150—47.)



1. A protector for pocket books and the like comprising an elongated plate adapted to be secured to a book longitudinally thereon, said plate having at one of its ends a hook, an arm pivoted at one of its ends to the said plate below the hook thereon and having in its surface adjacent the hook a longitudinally disposed slot for the reception of said hook, and a sleeve slidably mounted on the arm and adapted for engagement with the hook.

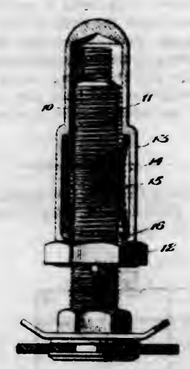
2. A protector for pocket books and the like comprising an elongated plate adapted to be secured to a book longitudinally thereon, said plate having at one of its ends an outwardly disposed hook, a spring actuated arm pivoted at one of its ends to the said plate below the hook thereon and having in its surface adjacent the hook a longitudinally disposed slot for the reception of said hook, said arm also having a stop member located at a distance from the upper end of said slot, and a sleeve slidably mounted on the arm above said stop member and adapted for engagement with the hook.

1,423,540. LIQUID-COOLED CONDUIT FOR FURNACES. HERMAN A. POPPENHUSEN, Hammond, Ind., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Dec. 22, 1919. Serial No. 346,473. 10 Claims. (Cl. 122—292.)



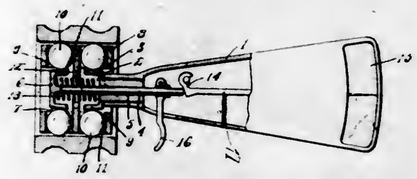
1. In a furnace, the combination with a combustion chamber and a grate therein, of a water-cooled conduit associated with one of the walls of said combustion chamber and having inlet and outlet openings, said conduit lying in direct contact with the fuel bed on the grate and having an enlarged portion projecting outward from the body portion of the conduit and forming a vapor collecting chamber in communication with said outlet, and means associated with said wall and extending in front of said enlarged portion to shield the same from the direct heat of the fuel bed.

1,423,541. VALVE-STEM CAP. EDWARD D. ROCKWELL, Bristol, Conn. Filed July 8, 1920. Serial No. 394,662. 3 Claims. (Cl. 152—12.)



3. The combination of a valve stem cap for threaded valve stems, longitudinally spaced annular shoulders on the interior of the cap, and a transversely distorted spring composed of a series of spaced helically disposed coils held within the cap between said shoulders and adapted to interlock with the threads on the valve stem, said spring being of greater length than the distance between said shoulders and compressed between said shoulders whereby the spring and cap are frictionally secured together and rattling of the cap prevented, and said cap being rotatable on the stem independently of the spring.

1,423,542. BORE GAUGE. HUGH M. ROCKWELL, Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Dec. 1, 1919. Serial No. 341,771. 15 Claims. (Cl. 33—178.)



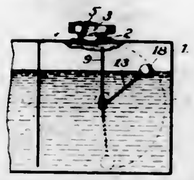
1. In a device of the character described, members having oppositely disposed tapered peripheral surfaces, said members being movable relative to each other, a holder loosely surrounding said members and having a rib extending between said members, contact elements carried by said holder and adapted to contact with said members and the material to be gaged, and indicator means operatively associated with said members.

1,423,543. HUSKING MITTEN. MICHAEL SAUTTER, Spokane, Wash. Filed Oct. 14, 1920. Serial No. 416,817. 2 Claims. (Cl. 2—102.)



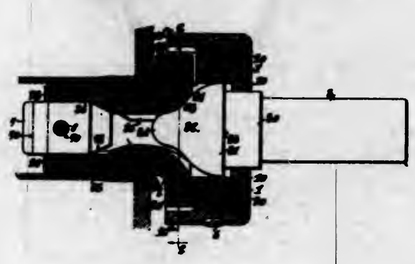
1. A husking mitten comprising a textile base, a reinforcing strip disposed upon the back of said base along the edges thereof, a facing member covering the palm portion of said base, the edges of the base being disposed between the reinforcing strip and the facing, headed fastening devices inserted through the said base and the palm facing, and other headed fastening devices inserted through the reinforcing strip.

1,423,544. TANK GAUGE. WILFRED J. SCHAEDLER, Brooklyn, N. Y. Filed Jan. 12, 1921. Serial No. 436,690. 2 Claims. (Cl. 73—82.)



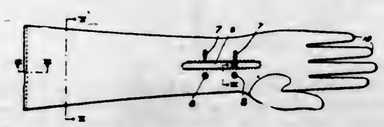
1. A liquid gauge comprising, in combination, a hollow head having a filling passage therethrough and adapted to be fixed in a filling opening in the top of a tank, an indicator portion carried by said head, a supporting rod depending from said head, a bracket fixed to the lower end of said supporting rod, a float member, a rod carrying said float member, said rod having a lateral portion journalled in said bracket about midway between the top and bottom of the tank so that said float member is adapted to swing through an angle of substantially 180 degrees, a vertical spindle journalled at its lower end in said bracket, a pointer fixed to the upper end of said spindle and working in the indicator portion of said head, and gears connecting said float-carrying rod and said vertical spindle.

1,423,545. COMBINED TUBE EXPANDER AND BEADING TOOL. JOHN JAMES SMITH, Winnipeg, Manitoba, Canada. Filed Dec. 20, 1921. Serial No. 523,794. 6 Claims. (Cl. 153—80.)



1. In a combined tube expanding and beading tool, a cup-shaped body having an axial opening, a cage including a tubular shank insertable into the tube end to be worked, the said cage having a plurality of radially extended chambers that open from the bore of the shank through the peripheral face thereof, a combined expanding and beading element mounted, one in each of the said chambers in the cage, an expanding mandrel that extends through the axial openings in the cup-shaped body and engages the combined tube expanding and beading elements and adapted, as it is being forced lengthwise into the body portion and the cage to hold the several expanding and beading elements in working engagement with the tool, and means mounted upon and cooperative with the cage for regulating the set of the said expanding and beading elements to suit the diameter of the tube being worked.

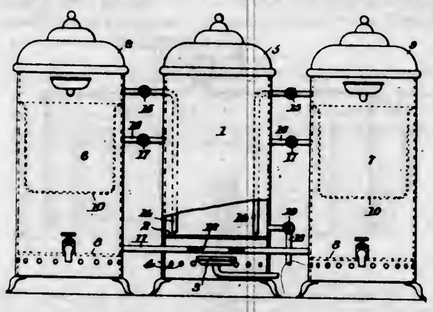
1,423,546. REVERSIBLE GLOVE. JEANNETTE LOWRIE SPERR, Trappe, Md. Filed Apr. 5, 1921. Serial No. 458,780. 4 Claims. (Cl. 2—9.)



1. A reversible glove, comprising inner and outer gloves fitting one within the other and united to form a single composite glove, the unfinished seams of the inner glove facing the unfinished seams of the outer glove whereby said single glove may be reversed and worn on the opposite hand.

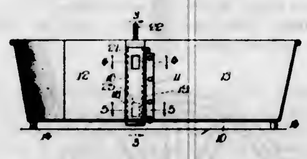
1,423,547. COFFEE URN. HENRY J. STROHBACH, New York, N. Y. Filed Dec. 9, 1921. Serial No. 521,164. 2 Claims. (Cl. 53—3.)

1. The combination with a boiler, of a burner for heating said boiler arranged a short distance below its bottom, of a percolator at one side of the boiler, and a conduit extending from the percolator to a point over the burner



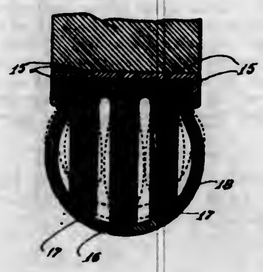
and spaced below the bottom of said boiler, whereby said burner heats said conduit as well as the entire bottom of said boiler.

1,423,548. DISHPAN. EDWARD GORDON TAYLOR, Madison, Wis. Filed Sept. 6, 1921. Serial No. 498,762. 6 Claims. (Cl. 141—11.)



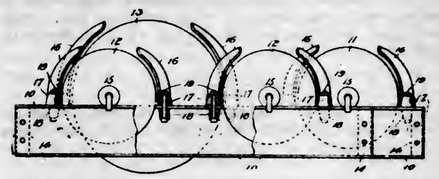
1. As a new article of manufacture, a dish pan having a transverse partition dividing the same into washing and rinsing compartments, a tubular valve casing mounted in said pan and formed with separate drain ports communicating with said washing and rinsing compartments respectively, and a hollow valve rotatable in said casing and opening at its lower end through the bottom of said pan, said valve having a drain port adapted to register with either drain port of said casing.

1,423,549. TIRE. JOHN J. P. WALSH, New York, N. Y. Filed June 2, 1920. Serial No. 385,923. 10 Claims. (Cl. 152—1.)



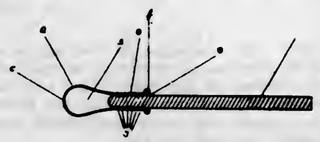
3. In a vehicle tire, comprising in combination, a plurality of individual flat resilient rings of varying outer diameters unyieldingly held together at their inner circumference, a normally closed annular slot provided in each of said rings, the outer diameters of the slots being smaller than the outer diameters of their respective rings, annular spaces provided between the individual slotted rings adapted to facilitate the spreading of the rings and the opening of the slots when pressure is applied.

1,423,550. CROWN BLOCK CABLE GUARD. VICTOR W. ZILEN, Chattanooga, Tenn., assignor to Lucey Manufacturing Corporation, Chattanooga, Tenn., a Corporation of Tennessee. Filed Sept. 13, 1921. Serial No. 500,465. 7 Claims. (Cl. 254—190.)



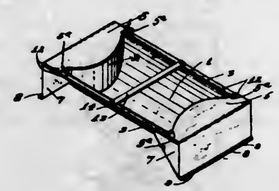
1. In a crown block, the combination of spaced frame members, sheaves journaled on the frame members and positioned in said spaces, guards for each of said sheaves, said guards being movable toward and away from their respective sheaves to vary the distance between the sheaves and their respective guards.

1,423,551. TOY ARROW. ADRIAN D. ADRIANCE, Brooklyn, N. Y. Filed Apr. 6, 1921, Serial No. 459,094. Renewed June 9, 1922. Serial No. 567,234. 1 Claim. (Cl. 102—26.)



A toy arrow comprising a flexible tubular, air filled tip, having an enlarged closed end and a contracted open end, a shaft having a grooved end firmly inserted in said contracted end and gripped thereby, and cement to fill said grooves, to assist in fastening said nipple to said shaft and to seal in the air.

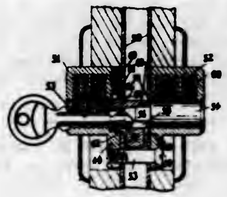
1,423,552. TROUGH. GEORGE G. BAYNE, Bushnell, Ill. Filed Feb. 24, 1920. Serial No. 360,554. 1 Claim. (Cl. 119—61.)



The combination of a feeding trough comprising an arcuate body of sheet metal and end closures integral therewith, a support therefor comprising an upright sheet metal piece at each end of the trough, triangular flanges on said upright sheets one at each end of each sheet, said flanges extending parallel to the length of the trough and having their upper edges bent to form fastening flanges extending toward the trough, the edges of said triangular flanges away from said upright pieces each extending obliquely upward and toward the other end of the trough, a foot flange on the lower end of each of said upright pieces extending away from the trough, a covering flange extending from the upper edge of each of said upright pieces toward the middle of the trough and covering the end closures, said covering flanges extending laterally as far as the planes of the triangular

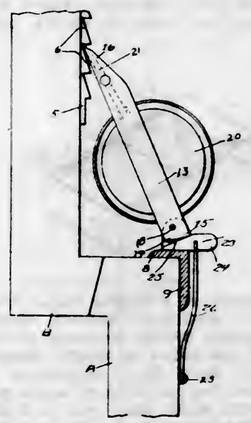
flanges, the lateral edges of the body of the trough having outwardly extending flanges given a thickness twice that of the body of the trough by being doubled upon themselves, said outwardly extending flanges entering between the cover flanges and the fastening flanges, fastening devices through the cover flanges, fastening flanges and outwardly extending flanges at each corner of the trough, and other fastening devices through the foot flanges at each end of the trough.

1,423,553. LOCK. ADOLF BOGS, Solingen, Germany. Filed Aug. 26, 1921. Serial No. 495,570. 14 Claims. (Cl. 70—46.)



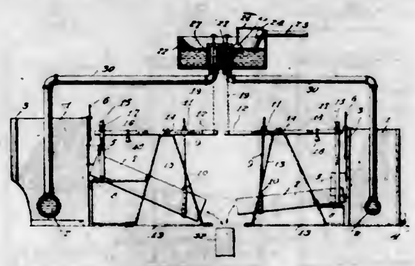
1. A safety lock comprising in combination a main lock, a key-bit remaining continuously therein and a cylinder lock mounted on each side of the main lock, the rotary cylinder of each side lock and the key-bit telescoping each other and having longitudinal, registering slots for jointly receiving the key.

1,423,554. COMBINED LOCK AND ALARM. ANDREW S. CUMMINGS, South Tacoma, Wash. Filed Mar. 28, 1921, Serial No. 456,074. Renewed Jan. 4, 1922. Serial No. 527,050. 5 Claims. (Cl. 116—16.)



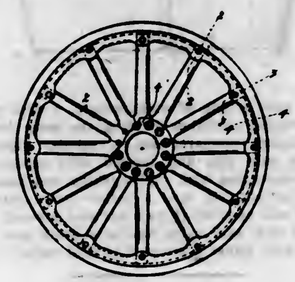
1. A lock and alarm of the character described comprising a rack carried by a support, a pawl carried by a second support and adapted to engage the rack, an alarm carried by the pawl, and trigger means carried by the pawl for actuating the alarm, said trigger means being disposed in engagement with the rack.

1,423,555. PAPER-STOCK REGULATOR. LEMUEL B. DECKER, Kenogami, Quebec, Canada. Filed Jan. 27, 1921. Serial No. 440,465. 4 Claims. (Cl. 92—46.)



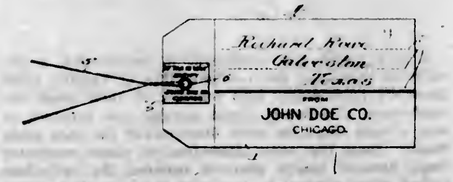
1. An apparatus of the character herein described, comprising means for automatically regulating the consistency and percentage of groundwood and sulphite stock used in the manufacture of paper.

1,423,556. WHEEL AND METHOD OF MAKING THE SAME. JOHN F. DODGE deceased, late of Detroit, Mich., by Matilda R. Dodge, Detroit, Mich., and Horace E. Dodge, Grosse Pointe, Mich., special administrators, assignors to Dodge Brothers, Detroit, Mich., a Corporation of Michigan. Filed Sept. 3, 1920. Serial No. 408,064. 3 Claims. (Cl. 29—87.)



1. The method of making a vehicle wheel having wooden spokes and a metal felloe, which consists in assembling in the wheel hub wooden spokes having ends encased in metal caps, successively presenting the ends of said caps to reducing means located at the desired uniform distance of said ends from the axis of rotation of said hub, whereby the seats for the metal felloe upon the metal caps are brought to uniform distances from the axis of rotation of the wheel, and then setting said metal felloe upon said metal seats.

1,423,557. SHIPPING TAG. ALFRED E. FISH, Chicago, Ill. Filed Apr. 2, 1920. Serial No. 370,627. 1 Claim. (Cl. 40—27.)



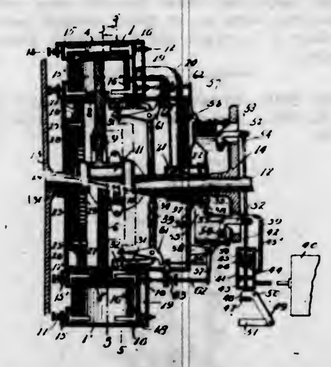
A shipping tag comprising a card and a piece of reenforcing material attached to the card and bearing identifying indicia, in combination with means for attaching the tag to the article to be shipped, said reenforcing material being secured to said card only at the outer portion of said material so as to permit it to separate from the card when drawn upon by the attaching means.

1,423,558. OIL-LEVEL INDICATING ATTACHMENT FOR CRANK CASES. ALEXIS F. GILLET, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr., a Corporation. Filed Oct. 4, 1920. Serial No. 414,447. 1 Claim. (Cl. 73—120.)



In an oil-level indicating attachment for a crank case, a tube having a convexed terminal and a circular groove, a rod provided with indicating characters, a disc disposed transversely of and mounted on the end of said rod, a circular cap provided with curved prongs, said cap having a lesser diameter than the diameter of the disc and having its top in engagement with the rod and disc, said rod being adapted to have a movement inwardly to dispose its circular cap outwardly of the tube, the curved prongs of the cap moving upon the convexed terminal and engaging in the circular groove of said tube.

1,423,559. FLUID-PUMP MECHANISM. FREDERICK CHARLES GUERLICH, Stamford, Conn. Filed Dec. 1, 1919. Serial No. 341,680. 10 Claims. (Cl. 230—37.)



1. In a pump mechanism, the combination of a plurality of pairs of cylinders spaced at angles to one another equal to 360° divided by the total number of cylinders, pistons in said cylinders, piston rods rigidly connecting the pistons of each pair of cylinders, a crank-shaft having a crank-pin, and a connector rotatably mounted upon said crank-pin and having pivotal connections with said rigid piston rods, the angle between lines joining the axis of the crank-pin and any two adjacent pivotal connections being equal to twice the angle between two adjacent cylinders.

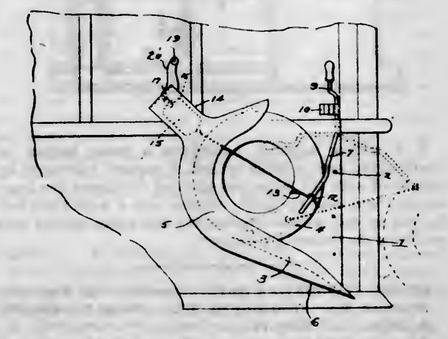
6. In a pump mechanism, the combination of a plurality of pairs of cylinders spaced at angles to one another equal to 360° divided by the total number of cylinders, pistons in said cylinders, piston rods rigidly connecting the pistons of each pair of cylinders, a crank-shaft having a crank-pin, a plurality of rigidly connected eccentrics equal in number to said piston rods and rotatably mounted on the crank-pin of said shaft and embraced by said rigid piston rods respectively, the centers of said eccentrics being displaced relatively to the axis of said crank by twice the angle between two adjacent cylinders and symmetrically arranged relatively to said crank, the distance between the centers of said eccentrics and said crank-pin being equal to the distance between the axis of said crank-pin and the axis of said shaft, regular inlet and outlet ports for said cylinders, supplemental outlet ports for said cylinders, an air chamber connected to said supplemental outlet ports, means for holding said regular outlet ports closed and opening said supplemental outlet ports successively to actuate said pump to charge said air chamber, and means for automatically closing the connection between said supplemental outlet ports and said chamber when the pressure in said chamber reaches a predetermined point.

1,423,560. MILK BOTTLE. JOHN G. HALL, Toronto, Ontario, Canada. Filed Apr. 8, 1921. Serial No. 459,562. 1 Claim. (Cl. 215—31.)



A bottle having a rim surrounding its mouth the greater thickness than the body of the bottle, said rim being of substantially even thickness throughout its circumference and having a substantially vertical ticket receiving recess formed entirely therein, the mouth of the recess extending through the upper edge of the rim.

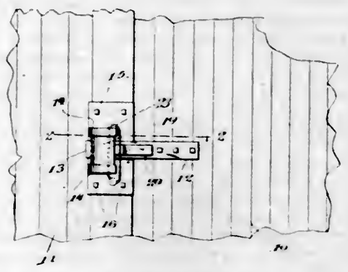
1,423,561. DEVICE FOR LAUNCHING RING LIFE BUOYS. SOPUS E. HANSEN, Seattle, Wash. Filed Mar. 25, 1922. Serial No. 546,871. 2 Claims. (Cl. 9—11.)



1. A ring buoy support including a housing for the buoy and an inclined trackway down which the buoy travels

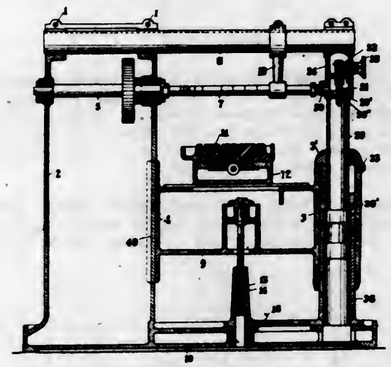
when released, a housing forming part of the support and adapted to receive a water-tight casing, a device carried by the housing and adapted to be connected to a plug in said casing, and a lever adapted to exert a pull upon said casing when operated to release the buoy.

1,423,562. CAR-DOOR LOCK. NIKALAI HILL, Park Falls, Wis. Filed May 18, 1921. Serial No. 470,494. 2 Claims. (Cl. 292—205.)



1. A car door lock comprising a door carried hook, a device carried by the door frame and comprising parallel side members each having a pair of openings therethrough, a cam lever mounted between the side members, a pivot pin disposed through an opening of each side member and through the cam lever, said cam lever being arranged to engage the hook between the side members, the cam lever having a transverse opening arranged to align with the other openings of the side members to receive a seal ribbon therethrough.

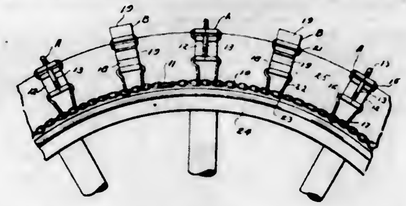
1,423,563. RIGID MILLING MACHINE. OSCAR HOPPE, Rorschach, Switzerland, assignor to Richard A. Kempin, Rorschach, Switzerland. Filed Mar. 28, 1921. Serial No. 456,383. 8 Claims. (Cl. 90—18.)



1. A milling machine, comprising a frame having an overhanging arm, a guide column, a support telescopically connected with the latter and adapted to connect the overhanging arm and the guide column, and a work-table bed having an end portion overlapping the guide column and enclosing the connecting support.

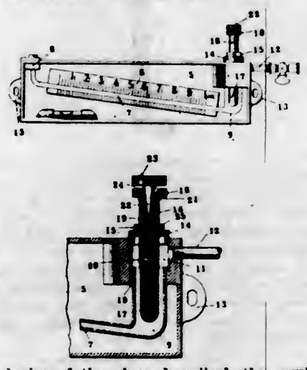
1,423,564. NONSKID CHAIN. MORRISON R. JOHNSON, Braymer, Mo. Filed July 21, 1921. Serial No. 486,339. 1 Claim. (Cl. 152—14.)

In a non-skid chain, the combination of side members, cross chains between the members respectively comprising a plurality of links each formed from a sheet metal blank folded upon itself to define overlapping portions providing an upstanding traction rib and bent at its ends to form pairs of companion hinge loops, and other links extending



through said pairs of loops pivotally connecting the first links with each other and with the side members as well as limiting the overlapping portions of the first links against spreading.

1,423,565. PRESSURE OR DRAFT GAUGE. WILLIAM KEMP, St. Louis, Mo. Filed Nov. 5, 1920. Serial No. 421,830. 4 Claims. (Cl. 73—31.)



1. In a device of the class described, the combination with a gauge glass having an integral upturned portion forming an oil well, of a regulator stem projecting into said well, supporting means for said stem, said stem being provided with an oil filling passage terminating intermediate of its length, and a removable plug in said oil passage.

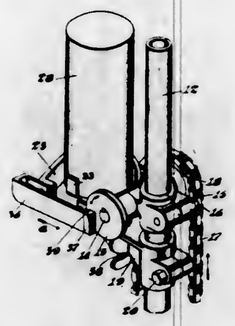
1,423,566. TOY. GUSTAVE A. KING, Chicago, Ill. Filed Jan. 4, 1921. Serial No. 434,992. 1 Claim. (Cl. 46—35.)



A figure toy comprising a plurality of separate sets of units which are detachably connected, one set of units

consisting of spheres and the other set consisting of double-ended pegs, the spheres having holes extending completely therethrough and intersecting each other at right angles, for insertion of the pegs thereinto, and the pegs having spherical enlargements intermediate their ends.

1,423,567. TOP GLUER. LEON E. LA BOMBARD, Chelsea, and MELVIN H. SIDEBOTHAM, Cliftondale, Mass., assignors to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Feb. 6, 1920. Serial No. 356,703. 16 Claims. (Cl. 91—51.)

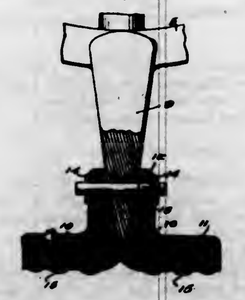


1. A device of the character described comprising a glue holder having a slotted end wall, means for continuously supplying a limited amount of glue to said holder, and a rotary applier a portion of which substantially fills the slot of said wall, means being provided for preventing glue from being carried out of the holder on the sides of the applier.

9. A device of the character described comprising a cup, a trough having a slot in one end wall, said trough communicating with the cup, a rotary disk partially located in and closely fitting said slot, and means for adjusting the relative vertical positions of the trough and disk to vary the space between the bottom of said slot and the periphery of the disk.

15. A device of the character described comprising a glue holder having a slotted wall provided with scrapers along the margins of the slot, and a rotary applier a portion of which substantially fills said slot.

1,423,568. TRACTION LUG. WILLIAM LEVY, Paterson, N. J. Filed Feb. 18, 1922. Serial No. 537,626. 6 Claims. (Cl. 301—44.)

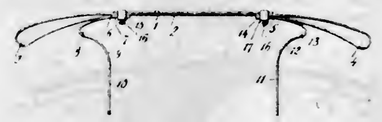


6. An attachment for vehicle wheels comprising a substantially radial lug secured to the wheel at one side thereof, said lug being tapered to decrease in thickness outwardly of the wheel and being provided with an opening, a pin mounted in said opening, and a pair of traction members each having a portion engaging one of the tapered sides of said lug, the lug engaging portions of said traction members being provided with slots arranged substantially radially of the wheel and adapted to receive the ends of said pin.

1,423,569. WALL BOARD AND PLASTER COMPOSITION ADAPTED THERETO. JAMES A. LOCKHART, Buffalo, N. Y., assignor to Pitho Plastic Board Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 8, 1921. Serial No. 459,737. 5 Claims. (Cl. 106—34.)

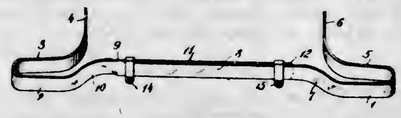
1. Plaster composition for wall board comprising plaster of Paris, lime and shredded wood fibres.

1,423,570. RESILIENT FRONT BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Jan. 16, 1920. Serial No. 351,818. Renewed Jan. 26, 1922. Serial No. 532,032. 9 Claims. (Cl. 293—55.)



2. The automobile buffer comprising a resilient buffer front formed of tempered spring steel strip having considerably greater vertical width than thickness and comprising a reenforced central impact receiving portion and end loop portions formed by bending such spring strip back upon itself and securing the ends of such spring strip close to the strip forming the ends of said central impact receiving portion and attaching members cooperating with said end loops and connected to said buffer front.

1,423,571. AUTOMOBILE BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Feb. 28, 1921, Serial No. 448,500. Renewed Jan. 26, 1922. Serial No. 532,033. 7 Claims. (Cl. 293—55.)

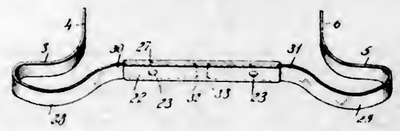


1. The automobile buffer consisting of two integral spring steel strips having greater vertical width than thickness and each comprising an attaching member and intermediate end loop in substantially the same horizontal plane and an impact receiving buffer front member adjustably arranged in overlapping reinforcing position adjacent the central part of the buffer, said strips being similarly upwardly arched between the connected end loops to form superimposed contact portions extending considerably above said end loops and attaching members, and clamping members to adjustably connect the contact portions of said buffer strips.

1,423,572. AUTOMOBILE BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed May 21, 1921, Serial No. 471,373. Renewed Jan. 26, 1922. Serial No. 532,034. 8 Claims. (Cl. 293—55.)

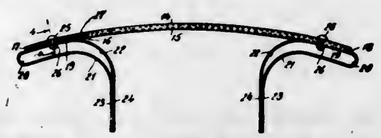
2. The automobile buffer comprising two integral spring steel strips having greater vertical width than thickness and each comprising an attaching member and interme-

diate end loop and an impact receiving buffer front member having a connecting portion arranged substantially in line with the corresponding connecting portion of the other strip adjacent the central part of the buffer, and connecting means connecting said connecting portions and forming substantially superimposed reenforced members



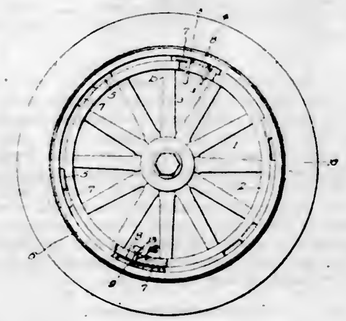
to strengthen this central contact part of the buffer, said impact receiving members being similarly upwardly bent between their end loops and connecting portions to form superimposed central contact portions vertically displaced with respect to said end loops and attaching members.

1,423,573. RESILIENT BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Feb. 24, 1920. Serial No. 360,585. Renewed Feb. 8, 1922. Serial No. 535,095. 14 Claims. (Cl. 293—55.)



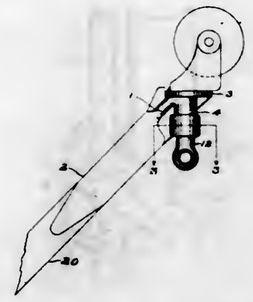
5. The resilient automobile buffer comprising two resilient strip end loop attaching elements, each having an attaching portion adapted to be secured to an automobile frame member and having an outwardly extending buffer end loop and an adjacent connector portion and intermediate resilient portions, and a resilient buffer front member cooperating with the connector portions of said attaching elements and adapted to extend adjacent said end loops and cooperating connecting devices detachably connecting said buffer front member with said attaching elements.

1,423,574. VEHICLE WHEEL. ALEXANDER MAILHIOT, Thorold, Ontario, Canada. Filed Nov. 5, 1921. Serial No. 513,071. 1 Claim. (Cl. 301—17.)



In a device as herein set forth, a wheel having a rim provided with spaced peripheral grooves and having notches from one of the sides thereof entering the grooves and one of the walls of each notch being in a line with one of the end walls of each groove, and a tire carrying rim having lugs designed to be passed through the notches and turned on the wheel rim to be received in the grooves thereof, blocks in the notches in contacting engagement with one end of the lugs, and means for securing the blocks in such position, spring means carried by the blocks contacting the inner walls of the grooves for partly projecting the blocks through the notches, and means for locking the blocks when fully received in the notches.

1,423,575. TROLLEY-ALIGNING HARP. SAMUEL S. MATTHES, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Sept. 3, 1921. Serial No. 498,228. 18 Claims. (Cl. 191—60.1.)



2. An aligning collector comprising a body member for attachment to a support, a member comprising means for mounting a collector and a stem for mounting the member on the body, means on the stem to rotate therewith to engage means rotatably mounted on the stem when the stem is rotated in one direction and to engage other means rotatably mounted on the stem when the stem is rotated in the other direction, and stop means to prevent the rotation of each of the two rotatable means in one but opposite direction and yielding means engaging the two rotatable means acting to rotate them in opposite direction.

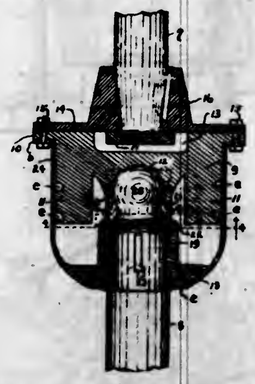
1,423,576. TOWING VESSELS. THOMAS SPENCER MILLER, South Orange, N. J. Original application filed Mar. 22, 1918, Serial No. 223,931. Divided and this application filed Nov. 10, 1920. Serial No. 422,990. 13 Claims. (Cl. 114—235.)



1. In combination, a towing vessel and a towed vessel, a hawser connecting said vessels, a line connected to said hawser at an intermediate point, and a yielding and recovering means connected to said line.

1,423,577. UNIVERSAL JOINT. WILLIAM C. MORTON, Omaha, Nebr., assignor of one-third to Joseph P. Condon and one-third to Ira O. Morton, both of Omaha, Nebr. Filed May 24, 1920. Serial No. 383,915. 1 Claim. (Cl. 64—96.)

A universal joint for drive and driven shafts, comprising a spherical head on the end of one shaft, a sleeve fitted over said shaft inwardly of the head and having cooperating means on the shaft to prevent end thrust thereof in either direction, said sleeve having a saucer-like flange and arms extending from the sleeve in a direction substantially parallel with the axis of both shafts and having facets disposed at substantially right angles and with rounded outer surfaces, provided with spaced notches therein, a block composed having a cylindrical portion with an inner annular wall extending about the spherical head and provided with a socket within the wall conforming and turning relatively to the head, said block having arms lying outwardly of the annular wall and extending between the first mentioned arms, said latter arms also having right angularly disposed facets parallel with opposed facets of the first mentioned arms and being further formed with substantially rounded outer surfaces having notches therein, coil springs lying



between the arms and having their ends engaged upon exposed facets, said springs having hooks extending into the notches of the respective arms, said block having a flange projecting outwardly at its edge portion, a disc fitting against the rear portion of the block and secured to said flange and provided with a sleeve fitted over the other shaft and secured to turn therewith, and a casing having a cylindrical portion fitting about said arms and upon the rounded surfaces thereof, and having a flange secured against the flange on said block, said casing also formed with a rounded end portion bearing against the saucer like flange, and having an opening to receive the shaft.

1,423,578. TWO-CYCLE INTERNAL-COMBUSTION ENGINE. ARTHUR G. L. NEIGHBOUR and HARRY C. W. NEIGHBOUR, Brighton, Victoria, Australia. Filed July 23, 1918. Serial No. 246,289. 7 Claims. (Cl. 123—73.)



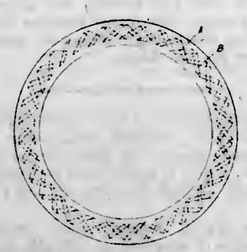
1. A two-cycle engine comprising a cylinder, a conical boss projecting inwardly and axially from the cylinder and ignition means in said conical boss, an annular combustion chamber of curved cross-section centrally disposed around said conical boss and having a maximum diameter greater than the cylinder diameter, the annular wall of the combustion chamber being inclined inwardly to the cylinder wall, a transfer port and a transfer passage in the wall of the cylinder, an annular series of exhaust openings in said cylinder wall, a hinged door and a detachable gas-tight cover permitting access to said transfer passage, a detachable casing enclosing said exhaust openings, an exhaust outlet in said detachable casing, a piston in said cylinder, a conical extension on said piston, a port at the side of said piston, a central hole in the apex of said conical extension, a passage connecting the said hole and the said port, and one or more packing rings in the piston between the exhaust openings and the transfer port when the piston is at the end of its power stroke, substantially as described.

1,423,579. CARBURETOR. CHARLES A. NORLANDER, Greenville, Ill., assignor of one-half to Charles E. Davidson, Greenville, Ill. Filed May 9, 1921. Serial No. 467,867. 6 Claims. (Cl. 48—180.)



1. In a carburetor the combination with a casing having an air inlet and a fuel outlet, of a diaphragm in the path of the air passing from the inlet to the outlet, a gas conducting tube within the casing, means movable with the diaphragm and normally engaging the end of the tube to close the gas outlet of the tube, an inner gas conducting tube having an outlet, and means within the inner gas conducting tube and movable with the diaphragm for regulating the flow of gas from the inner tube to the outer tube.

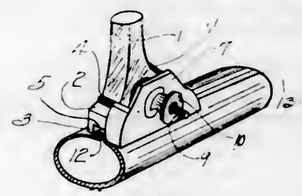
1,423,580. RESILIENT CORE FOR MOTOR TIRES. GEORGE ARTHUR HOWARD ROBBINS and STANLEY FERDINAND ERIC EINSIEDEL, Brisbane, Queensland, Australia. Filed Apr. 27, 1921. Serial No. 464,922. 1 Claim. (Cl. 152—5.)



An improved resilient core for motor tires composed of elastic material having a round base and provided with

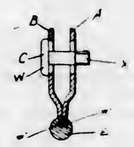
two interior endless and uninterrupted zig-zag air passages whereby constant air circulation is maintained and a uniform resiliency attained throughout the tire.

1,423,581. SEAM-SETTING TOOL. HENRY F. G. SCHUSKE, St. Joseph, Mo. Filed Dec. 9, 1920. Serial No. 429,325. 1 Claim. (Cl. 113—111.)



A seam setting tool, comprising a head and shank; a fixed jaw depending from one edge of the head; guide grooves cut inwardly and downwardly across the ends of the head; a combined jaw and set slidingly mounted in said guide grooves and moving opposite the fixed jaw; an ear extended up from the movable jaw; and a bolt extended from the head through said ear as means for adjusting the jaws.

1,423,582. MEANS FOR THE SUSPENSION OF ELECTRIC CONTACT WIRES. MARCO SEMENZA, Milan, Italy. Filed July 21, 1921. Serial No. 486,562. 3 Claims. (Cl. 191—42.)

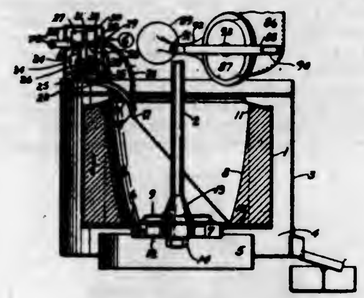


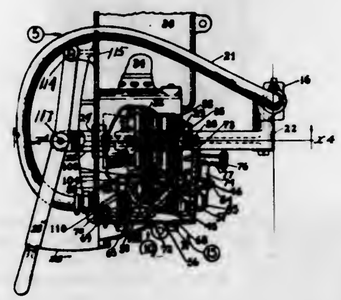
1. A contact-wire holding device comprising a pair of elastic plates fulcruming on each other and forming tongs, the lower ends of the plates being adapted to engage the contact wire when the upper ends of the plates are pressed together to a predetermined point, said elastic plates being placed under tension by further movement of the upper ends of the plates toward each other; and a locking pin having heads at a fixed distance and engageable with said plates while the latter are under tension, for holding said plates together under tension, said locking pin serving as a means for receiving a supporting device for the tongs.

1,423,583. METHOD OF AND MEANS FOR WASHING CENTRIFUGALS. ROBERT ALEXANDER STEPS, Los Angeles, Calif., assignor to Sugar Machinery Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 7, 1920. Serial No. 350,046. 58 Claims. (Cl. 210—67.)

12. In the art of washing sugar centrifugals, the method set forth of sweeping a vertically thin elongated spray of wash water substantially from top to bottom and from bottom to top of said centrifugal.

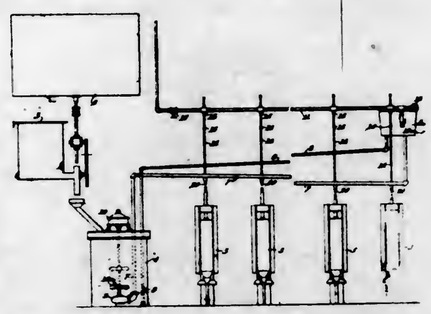
16. The combination with a centrifugal basket and means to revolve the basket; of an oscillating nozzle adapted to deliver water to the walls of the cavity of the centrifugals in the basket; and means to oscillate the





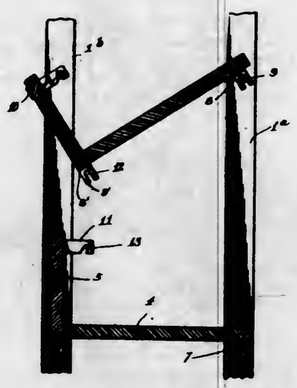
nozzle at a different speed varying at different levels in proportion to the thickness of the mass of sugar at such levels.

1,423,584. APPARATUS FOR ELECTROLYZING SOLUTIONS. KENNETH E. STUART, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, New York, N. Y., a Corporation of New York. Filed Jan. 28, 1921. Serial No. 440,740. 10 Claims. (Cl. 204—5.)



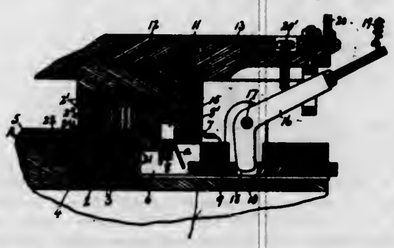
1. In a system for feeding a liquid to a container, the combination with a pipe and an orifice for dispensing liquid therefrom, said pipe and orifice constituting a continuous conduit, of means independent of said conduit and the flow of liquid therethrough for passing a cleaning fluid through the said orifice.

1,423,585. DISPLAY RACK. GEORGE A. TAYLOR, Weehawken, N. J., assignor to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 27, 1921. Serial No. 464,894. 7 Claims. (Cl. 211—14.)



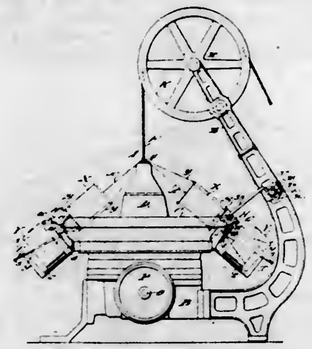
1. In a display rack, the combination of upright members, securing devices extending from the same at spaced intervals, and shelves adapted to extend between adjacent upright members, having bottom portions and back portions extending upwardly from the rear edges thereof, said shelf back and bottom portions having securing devices thereon adapted to coact with said first named securing devices, to support said shelves in horizontal position or in inclined position from back to rear, as desired.

1,423,586. MACHINE FOR MAKING CHAPLETS. ROBERT P. THRONE, Syracuse, N. Y. Filed Nov. 5, 1919. Serial No. 335,918. 4 Claims. (Cl. 153—13.)



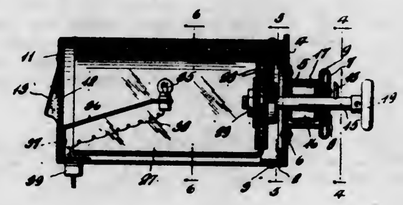
1. In a machine of the character described, the combination of a supporting bed having a female punching die, a forming-die and a horizontal longitudinally extending guide, all arranged in sequence along the bed, the female punching die being provided with a group of parallel vertical openings and a guide-way extending horizontally across said openings for receiving the work, a plunger movable vertically toward and from the supporting bed and provided with a male punching die and a forming-die arranged in sequence lengthwise of the bed, the male punching die having a group of punches vertically alined with the openings in the female die and movable across the work guide as the plunger is lowered, said female punching die and the openings therein extending above the work guide to form guides for the punches, the supporting bed and plunger being provided with cooperating bearing members in a vertical plane between the punching dies and said forming-dies, a supplemental plunger slidable in the first named horizontal guide to and from a position beneath the forming-die on the bed and toward and from the female die, and means actuated by the first named plunger when moved toward the bed for moving the supplemental plunger toward the female die.

1,423,587. YARN RETRIEVER FOR BRAIDING OR SIMILAR MACHINES. SIMON W. WARDWELL, Providence, R. I.; Carl V. J. Christensen, Edwin C. Smith, Arthur A. Armington, and Willard W. Bardsley executors of said Simon W. Wardwell, deceased. Filed Oct. 9, 1919. Serial No. 329,454. 12 Claims. (Cl. 96—5.)



1. In combination with a braiding or similar machine, a guide for directing the course of a yarn as it travels in a predetermined path, and means for retrieving the yarn when it escapes or becomes displaced from its guide, said means acting to replace the yarn in the guide.

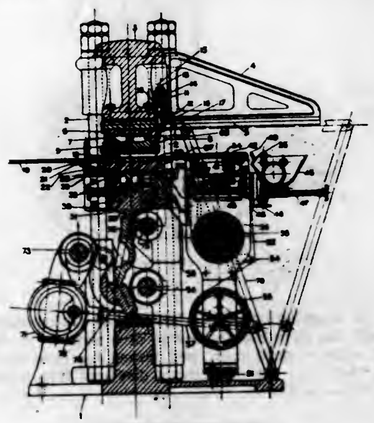
1,423,588. DIRECTION INDICATOR. JAMES WALTER WHEELER, Jr., Chattanooga, Tenn. Filed Apr. 3, 1922. Serial No. 549,135. 1 Claim. (Cl. 116—43.)



A direction indicator comprising a hollow cylindrical housing having end walls, a secondary housing concentrically located with relation to one of said walls, the outer end of said secondary housing and the corresponding end wall of said housing having aligned bearing openings therein, an operating shaft received through said bearing openings, anti-frictional bearing means arranged in said secondary housing engaging portions of said operating shaft, a hollow translucent drum fixedly mounted upon the inner end of said shaft and arranged within the housing having signalling matter presented upon its peripheral surface, said signalling matter being arranged in duplicate and disposed at diametrically opposite points thereon adapted to be simultaneously displayed through diametrically arranged windows in the side walls of the housing, an arcuate element fixedly mounted upon the

inner end of said shaft within the housing having a plurality of seats formed in one marginal portion thereof, a spring pressed arm pivoted at one end to the inner side of the housing and carrying a roller in its free end engageable with said seats, a light source supported within the housing and extending into said drum, a dial secured to the outer end of the secondary housing having indicia presented upon its face and an indicator carried upon the adjacent portion of the operating shaft cooperable with said dial.

1,423,589. DIE PRESS FOR PRINTING AND EMBOSSING. FREDERICK WILLIAM WOOD, Ashton-under-Lyne, England, assignor to Woods Die Press Improvements Company, Limited, London, England, a Company of Great Britain. Filed May 3, 1920. Serial No. 378,674. 6 Claims. (Cl. 101—165.)



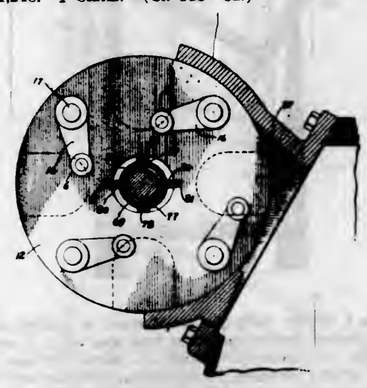
1. In a die press for use in printing from engraved plates or dies on paper or other materials, in combination a die acting face downwards and reciprocating in the plane of the die, inker and wiper devices with an interposed scraper immediately above the front edge of the ink reservoir and close to the rear edge of the wiper and means for operating said inker, scraper and wiper devices in unison so that for the operative stroke of the die the inking roller is not brought into contact with the die until after the forward edge of the die has passed its inking position.

1,423,590. GARMENT FASTENER. WALTER ZIMMERMAN, Kansas City, Kans. Filed Sept. 6, 1921. Serial No. 498,816. 2 Claims. (Cl. 22—224.)



1. As a new article of manufacture, a garment fastener socket member to receive a headed complementary member, said socket member consisting of stamped-up sheet metal forming a ring-shaped portion, a socket integral with the ring-shaped portion and having a slot in its edge and a slot in its end communicating with the first named slot, the width of the end slot being less than the diameter of the socket and the metal cut therefrom being integral with the ring to provide a tongue integral with and projecting from the ring-shaped portion to align with the end slot, the free end of the tongue being adjacent to the center of the end wall of the socket whereby the headed portion to be received therein will be held in intimate contact therewith.

1,423,591. APPARATUS FOR SEALING CONTAINERS. NEILS P. BACH, Millburn, N. J., assignor to Perfect Vacuum Canning Company, New York, N. Y., a Corporation of Maine. Filed Feb. 25, 1920. Serial No. 361,248. 1 Claim. (Cl. 113—82.)



In apparatus of the class described, the combination of a vacuumizing chamber, a port therein, a rotary inlet valve controlling said port, a seat for said valve, a shaft carrying said valve, said valve having movement radially of said shaft and held to its seat in the port by atmospheric pressure.

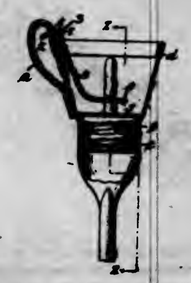
1,423,592. CLOSURE. FREDERIC E. BALDWIN, Philadelphia, Pa. Filed Jan. 10, 1922. Serial No. 528,216. 6 Claims. (Cl. 215—49.)



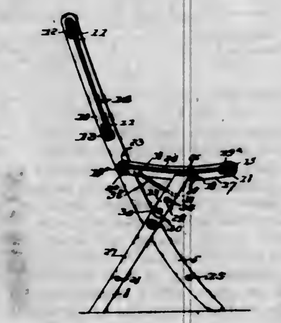
1. A closure having in combination a tapering socket of glass, a glass thread on the inside of the socket, a moulded glass plug having means adapted to loosely engage the thread, the plug being free for endwise movement provided by clearance between said means and thread, the wall of the plug where the mould seams occur being of such diameter as will provide space between the seams and the thread and to prevent the mould seams interfering with the closing action, a readily deformable gasket circular in cross-section, and a seat for the gasket adapted to compress the gasket toward the center of the closure, the gasket being capable of further compression by endwise pressure on the plug after the closure has been fully completed by screwing and said gasket adapted for the embedment of the mould seam therein.

1,423,598. HOLDER FOR HOT-WATER-BOTTLE STOPPERS. FREDERIC E. BALDWIN, Philadelphia, Pa. Filed Jan. 31, 1922. Serial No. 533,071. 1 Claim. (Cl. 215—99.)

An articulated holder for hot water bottle or bag stoppers comprising in combination a yoke adapted for insertion through a bag handle and consisting of a bar having at its ends angularly disposed arms provided with hinge elements, and a keeper for loosely embracing the neck of the stopper and comprising a split ring or ring section having at the sides of the split angularly disposed extensions provided at their ends with hinge elements and adapted to be sprung onto the neck and into engagement with the first mentioned hinge elements, substantially as described.

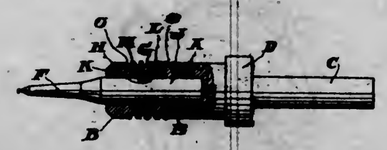


1,423,594. FOLDING CHAIR. HARRY E. BARROWS, Sheboygan, Wis., assignor to Dillingham Manufacturing Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed Nov. 16, 1921. Serial No. 515,545. 5 Claims. (Cl. 155—143.)



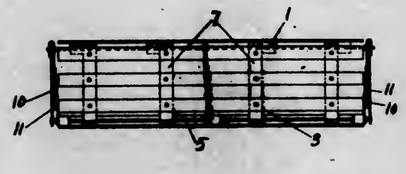
2. A folding chair of the character described comprising front and hind legs, a seat movably connected to the front legs, and arms mounted between and extending beyond the hind legs for supporting the seat independently of the hind legs.

1,423,595. PIN RETAINER FOR TOOL HOLDERS. LEWIS C. BAYLES, Boston, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 28, 1921. Serial No. 473,417. 8 Claims. (Cl. 279—97.)



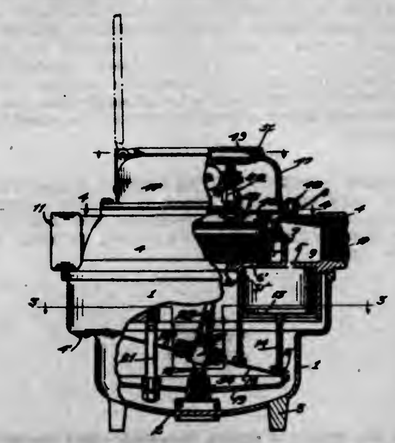
1. A device for removably retaining a tool in a holder, comprising in combination a holder having a hollow socket portion, a tool having a shank fitting said socket, a removable transverse pin loosely engaging both the holder and tool shank, and a longitudinally displaceable retaining member having a plurality of individually and longitudinally displaceable portions upon the periphery of the holder for holding said pin in position, provision being afforded for inserting and withdrawing the pin through the retaining member by longitudinally displacing parts of said retaining member.

1,423,596. FOLDING CRATE. ARTHUR H. BLANKMOR, St. Louis, Mo. Filed Sept. 20, 1919, Serial No. 325,152. Renewed May 18, 1922. Serial No. 562,034. 11 Claims. (Cl. 217—47.)



1. A folding crate, including collapsible end frames, each of the latter including two stepped, parallel, spaced and similarly positioned end braces, and parallel slats extended between and pivotally attached to the steps of said end braces, so that the ends of the slats upon one side of the crate will fall outwardly of one of the end braces, and inwardly of the other of the end braces.

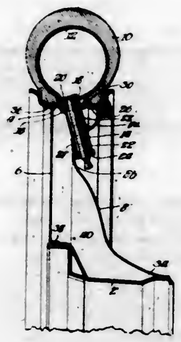
1,423,597. METER. HOSMER BLUM, San Francisco, Calif., assignor of one-half to Bryon C. Jay, Los Angeles, Calif. Filed June 17, 1919. Serial No. 304,774. 6 Claims. (Cl. 73—30.)



1. A meter comprising a casing provided on its interior with a chamber having a fluid inlet passage and formed with top and bottom walls, said top wall provided with an outlet opening and said bottom wall provided with a plurality of ports successively through which the fluid admitted under pressure into said chamber passes in opposite directions, and said casing provided with a fluid outlet passage communicating with said chamber through said opening in the chamber top wall, a ported disk valve movably mounted within said chamber and formed with a solid periphery and resting on said chamber bottom wall, a packing associated with the opposite face of said valve and cooperating with the chamber top wall, a plurality of cylinders associated with the underside of said chamber bottom wall, one cooperating with each of said ports, a piston within each cylinder, means cooperating with said pistons

for operating said valve within said chamber to successively position said ports successively in communication with said inlet passage and said outlet passage, and a register operated by the movement of said pistons.

1,423,598. METAL DISK WHEEL. JAMES A. CHARTER, Chicago, Ill. Filed Mar. 17, 1922. Serial No. 544,445. 7 Claims. (Cl. 301—63.)



1. A hollow metal wheel comprising a tire supporting rim carried from a hub by two separated metallic disks, the front disk having adjacent to the rim an annular groove so as to allow a straight inner tube valve stem which passes through a point approximately midway between the disks to extend diagonally through said front disk at a point in the side thereof, whereby the outer end of such a valve stem is free to receive conventional forms of valve nut and air chuck on an air supply hose, and yet is free from danger of being curbed while the wheel is in operation.

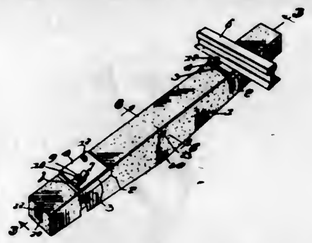
1,423,599. HOSE-SUPPORTER BUTTON AND METHOD OF MAKING SAME. LEWIS D. CHAISTIS, Nichols, Conn., assignor to Albert Oppenheim, New York, N. Y. Filed June 17, 1921. Serial No. 478,281. 6 Claims. (Cl. 29—148.)



1. The method of making clasp-studs which consists in forming the stud comprising a base, a shank and a substantially circular head from a wire blank with the head upturned at an acute angle to the shank, then slipping a tubular collet over the head and onto the shank, and then bending the head down to hold the collet in place.

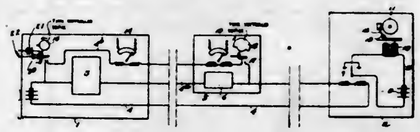
1,423,600. CEMENT TIE AND RAIL FASTENER. ADAM L. CRANE, Fort Mill, S. C. Filed Feb. 18, 1922. Serial No. 537,551. 3 Claims. (Cl. 238—91.)

1. In a tie, a plastic tie body, wherein its central portion is relatively thick and has its under surface tapered or inclined upwardly from said relatively thick portion to the ends of the tie, upper and lower reinforcing tie rods embedded in the tie body, the lower reinforcing tie rods conforming to the contour of the bottom of the tie, upper and lower transverse reinforcing plates or bars, the upper bar overlying the longitudinal-reinforcing rods, the lower bar underlying the lower longitudinal reinforcing rods, verti-



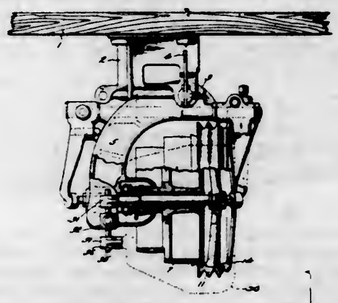
cal rods connecting the transverse bars, rails to rest upon the tie, which is provided with cushioning supports for the rails, and means for fastening the rails in position.

1,423,601. DETECTOR FOR ALARM SYSTEMS. FRANKLIN E. CRAWFORD, Winchester, Mass., assignor to Bankers Electric Protective Association, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 12, 1918. Serial No. 249,375. 5 Claims. (Cl. 177—314.)



1. In an electrical burglar alarm system, a guarded structure, an alarm station, an electrical circuit for controlling actuation of the alarm at said station, said circuit comprising two paths at the guarded structure, one a door circuit controlled by the door and the other a supplementary circuit excluding the door, means to control the supplementary circuit at said guarded structure, a detector station distant from said guarded structure, said supplementary circuit passing through said detector station, and mechanism at said station for controlling the supplementary circuit independently of said controlling means at said guarded structure, and a second guarded structure containing the control mechanism at the detector station.

1,423,602. DRESS GUARD. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Apr. 1, 1918, Serial No. 225,935. Divided and this application filed Oct. 30, 1918. Serial No. 260,251. 11 Claims. (Cl. 74—56.)



1. In a power-transmitting device, a bracket, a hanger adjustably suspended from said bracket, driving and

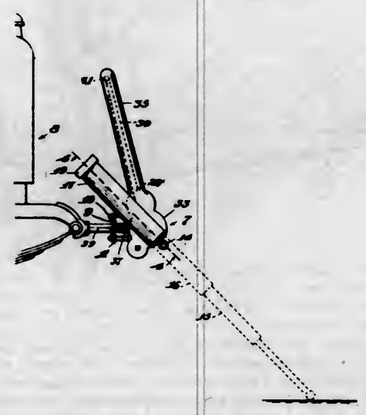
driven pulleys supported by said hanger, and a dress-guard mounted in said hanger to swing outwardly about a vertical axis to afford access to said pulleys.

1,423,603. PENCIL. WILLIAM P. DE WITT, Somerville, and DAVID J. LA FRANCE, Cambridge, Mass., assignors, by mesne assignments, to De Witt-La France Co., Cambridge, Mass., a Corporation of Massachusetts. Filed Oct. 2, 1919. Serial No. 327,839. 5 Claims. (Cl. 120—18.)



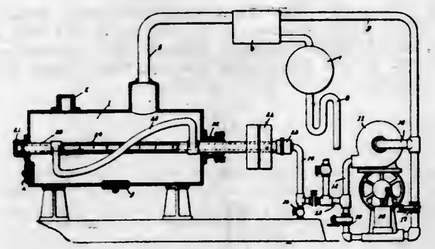
5. In a magazine pencil the combination of a tubular magazine having a circumferential groove; a tubular casing surrounding the magazine and having a rim engaging the circumferential groove of the magazine to permit rotation of the parts relatively to each other; a cap for the magazine covering the juncture of the magazine with the casing and effective to rotate the magazine; a lead guide co-axial with the casing and the magazine; an ejector in line with the lead guide; and means for translating rotary movement of the magazine into longitudinl movement of the ejector.

1,423,604. BUMPER-BAR FENDER. WILLIAM W. EDWARDS, Los Angeles, Calif. Filed Jan. 17, 1921. Serial No. 437,753. 6 Claims. (Cl. 293—25.)



1. In a vehicle fender, a frame embodying telescopic side portions, each of which comprises a plurality of tubes adapted to be telescoped together, a series of helical springs arranged in each tube adapted to act on the adjacent tubes, said springs being compressed when the tubes are in their telescoped position, means for holding the tubes telescoped in opposition to the springs adapted to be released, and a fender carried by said telescoping members adapted to be moved into operative position on extension of said telescoping members.

1,423,605. METHOD OF MAKING DRY SOLUBLE LIME-SULPHUR COMPOSITION. EDWARD H. FRENCH, Columbus, Ohio. Filed Aug. 11, 1919. Serial No. 316,615. 4 Claims. (Cl. 23—13.)



1. The method of preparing soluble lime-sulphur which consists in evaporating a lime-sulphur solution in an atmosphere of nonoxidizing gas.

1,423,606. HAIRPIN. THOMAS GREGORY, Cleveland, Ohio. Filed Aug. 25, 1921. Serial No. 495,242. 2 Claims. (Cl. 132—51.)

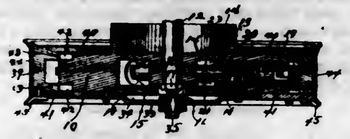


2. A hair pin formed of a piece of wire substantially U-shaped, said wire being split adjacent the upper end of one arm forming a pair of members, said members being extended to form loops spaced from each other in the plane of said arms, said members being then extended to form an arm substantially parallel to said first portion and being pivotally connected to each other adjacent said spaced loops, the portion of said members beyond said pivot being parallel to and normally contacting with each other.

1,423,607. TIRE-OPERATED MULTIPLE AIR PUMP. DANIEL F. GROAT, Fort Dodge, Iowa. Filed Apr. 17, 1920. Serial No. 374,561. 7 Claims. (Cl. 230—31.)

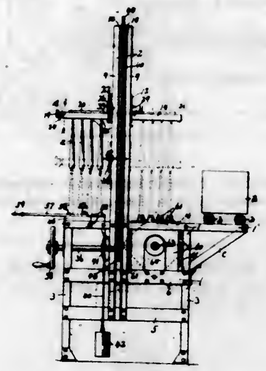
1. A tire operated air pump, comprising a non-tubular axle, a wheel member mounted on and for rotation with said axle and formed with radial cylinders and also formed with an annular air chamber communicating with said cylinders and devoid of communication with said axle, valves controlling the communication between said chamber and cylinders, pistons mounted for reciprocation in said cylinders and adapted to discharge air to said cham-

ber, means for returning said pistons from the compression strokes thereof, and a rim loosely mounted on said



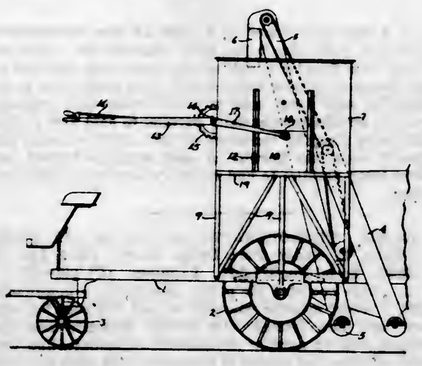
wheel member and adapted successively to engage and produce compression strokes of said pistons.

1,423,608. CANDLE-MAKING MACHINE. ROBERT GROSSMANN, Syracuse, N. Y., assignor to The Will & Baumer Candle Company, Syracuse, N. Y., a Corporation of New York. Filed Apr. 13, 1922. Serial No. 552,200. 12 Claims. (Cl. 18—27.)



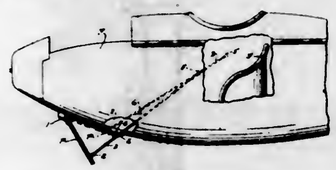
1. In a candle making machine, the combination of a candle cutting device having a multiplicity of cutters, a candle carrier having means for supporting a multiplicity of candles in alinements with the cutters, means for operating the carrier to bring the candles into position to be cut by the cutting device, and means for operating the cutters into cutting engagement with the candles.

1,423,609. GRAIN CARRIER. ORRIN B. HALL, Oatville, Kans. Filed Aug. 1, 1921. Serial No. 488,920. 2 Claims. (Cl. 198—12.)



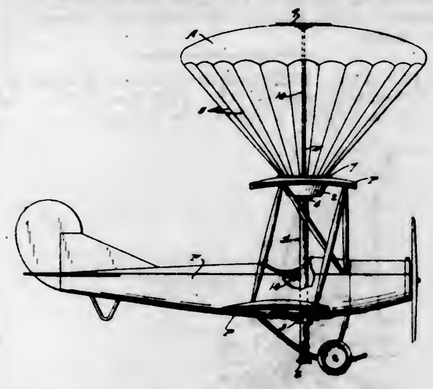
1. In combination with a combined grain harvester and separator including a framework, elevator and bull wheel; a grain tank arranged beneath the outlet of said elevator and supported above the bull wheel by frame elements; a downwardly and outwardly sloping floor for said tank, and a gate, normally closed, arranged in the outer wall of said tank in a plane parallel to but beyond the plane of the outer face of the bull wheel.

1,423,610. AEROPLANE. JOHN HAYES, Belle Vernon, Pa. Filed Feb. 15, 1922. Serial No. 536,723. 2 Claims. (Cl. 244—29.)



2. In combination with the nose portion of the fuselage of an aeroplane, the bottom wall of the fuselage being provided with an opening, a plane underlying said nose portion, means for hingedly connecting the forward marginal portion of the plane to the fuselage for swinging movement toward or from the fuselage, and a rod operatively engaged with the rear marginal portion of the plane and extending within the fuselage through the opening in the bottom wall thereof, said rod providing means within the fuselage for swinging the plane toward or from the bottom of the fuselage, said rod having a shoulder contacting with the bottom wall of the fuselage adjacent the slot when the plane has been moved away from the fuselage, said rod being movable within the opening to disengage the shoulder from the bottom wall of the fuselage, said opening being of a size to permit the shoulder when disengaged to pass therethrough.

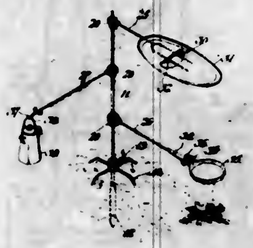
1,423,611. AEROPLANE. JOHN HAYES, Belle Vernon, Pa. Filed Feb. 15, 1922. Serial No. 536,724. 3 Claims. (Cl. 244—21.)



2. In combination with the fuselage of an aeroplane and a supporting plane therefor, said plane being provided with an opening, a parachute, flexible means for connecting said parachute to the portion of the plane defining the opening, said parachute when collapsed being insertable through the opening in the plane, a rod secured to the central portion of the parachute, a tubular standard carried by the fuselage and extending from the plane through the pit of the fuselage, said rod being telescopically engaged within the standard, means placed under tension when the rod is forced inwardly of the standard to force

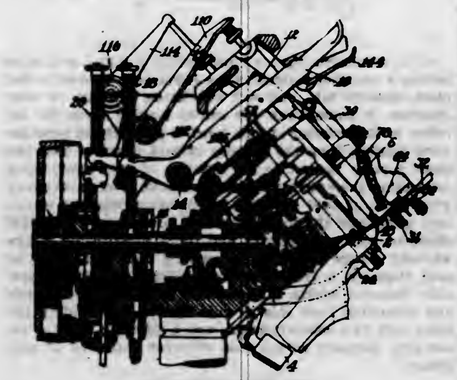
the rod and parachute outwardly through the opening in the plane, a sliding bolt carried by the standard, and means for constantly urging said bolt inwardly of the standard, the rod having a shoulder with which the bolt engages when the rod is moved inwardly of the standard.

1,423,612. CAMP UTENSIL. HAROLD H. JEWETT, Puente, Calif. Filed May 6, 1919. Serial No. 295,203. 1 Claim. (Cl. 126—30.)



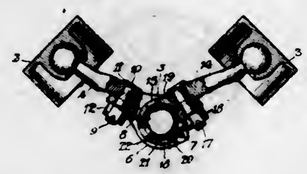
A camp utensil comprising a stake having a pointed end arranged to enter the ground, a spider on said stake having outwardly extending pivotally mounted legs arranged to engage the ground, a series of collars slidably mounted on said stake, means for fixing said collars in adjusted position on said stake, a head rotatably mounted on each collar, an arm mounted in each head extending outwardly therefrom, and means for securing said arms in said heads to prevent turning of the arms in the heads.

1,423,613. MACHINE FOR WORKING UPPERS OVER LASTS. BERNHARDT JORGENSEN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 25, 1918. Serial No. 264,038. 38 Claims. (Cl. 12—10.)



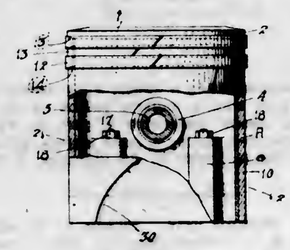
1. A machine for working an upper over a last and securing it to an insole by adhesion having, in combination, upper pulling means, means for bending the margin of the upper inwardly over the insole, said bending means being mounted for inward movement lightly along the surface of said margin without substantial pressure against the insole, and additional means constructed and arranged to engage the inwardly bent margin of the upper and to press it into adhering relation to the insole while the margin is thus lightly held by the bending means.

1,423,614. CONNECTING ROD FOR DRILLS, ETC. HENRY J. KINMAN, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 14, 1919. Serial No. 325,902. 7 Claims. (Cl. 74—17.)



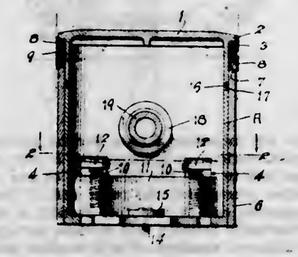
1. Connecting means between the crank shaft and pistons of a multiple cylinder engine consisting of two connecting rods, and a bushing cooperating with said rods and having a perforated projecting portion, the inner or bearing end of one of the rods having an opening to receive such projecting portion.

1,423,615. PISTON. HERMAN KISTNER, Elizabeth, N. J. Filed June 7, 1921. Serial No. 475,663. 12 Claims. (Cl. 74—108.)



1. A piston including a body having outwardly opening recesses in the walls thereof, a sleeve slidable on said body exteriorly thereof, and means arranged within said recesses for securing said body to said sleeve.

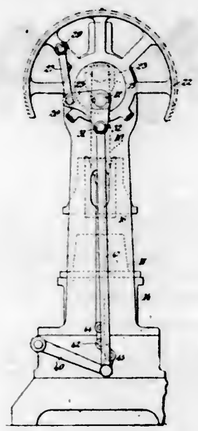
1,423,616. PISTON. HERMAN KISTNER, Elizabeth, N. J. Filed June 7, 1921. Serial No. 475,664. 8 Claims. (Cl. 74—108.)



1. A piston including a body having a plurality of lugs thereon, a sleeve slidable on said body exteriorly

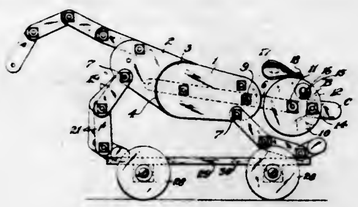
thereof, members adapted to be detachably connected to said lugs, and means carried by said members for securing said sleeve on said body.

1,423,617. PRESS. WILLIAM KLOCKE, Woodhaven, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of West Virginia. Filed May 15, 1920. Serial No. 381,777. 8 Claims. (Cl. 113—38.)



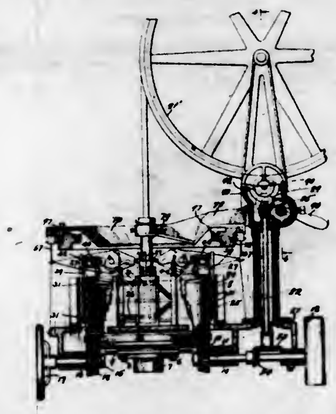
1. A press comprising a punch, a die, means for driving said punch with a uniform motion on its working stroke, said means comprising a part to which said punch is connected, having a crank motion, whereby said punch has definite limits to the extremes of its movement.

1,423,618. FIGURE TOY. JOSEPH C. LACKEY, Long Branch, N. J. Filed Mar. 2, 1921. Serial No. 449,084. 11 Claims. (Cl. 46—45.)



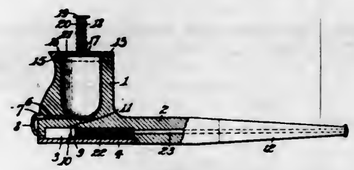
1. A figure toy including a body portion formed of a pair of parallel sections each comprising a pair of members arranged end to end, the inner end of one member of each section overlapping the inner end of the member at the opposite end of the other section, a strip arranged longitudinally between said sections movable with one pair of adjacent members of said sections and overlapping the joints between said members, and pivotal means extending through the said strip and the inner ends of the members at opposite ends of said sections.

1,423,619. LOOM. EVARTS G. LOOMIS, Newark, N. J., assignor to The Okonite Company, Passaic, N. J., a Corporation of New Jersey. Filed July 23, 1921. Serial No. 486,987. 28 Claims. (Cl. 139—7.)



1. In a loom for weaving tubular fabric, tension fingers cooperating with the wrap threads, a pivoted bearing for each finger, and locking mechanism for locking a finger out of operative position.

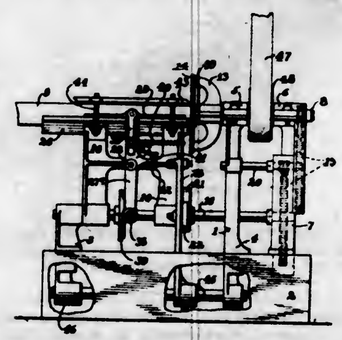
1,423,620. TOBACCO PIPE. JOHN MEGAROS, Wheeling, W. Va. Filed June 24, 1920. Serial No. 391,328. 4 Claims. (Cl. 131—12.)



4. In a tobacco pipe, a bowl having a stem, said bowl having a chamber formed in the lower part thereof, a flat plate slidable into and out of closing relation to said chamber, a passageway for smoke leading from the interior to the exterior of said bowl, a plurality of passageways leading from the interior of said chamber near the front portion thereof to the exterior of said bowl, tubes connecting the exterior openings of said bowl passageway with those of said chamber passageways whereby smoke may pass from the interior of said bowl to and into said chamber, said passageways and tubes constituting means whereby smoke is cooled in passing from said bowl to said chamber, a frame having a fabric covering removably disposed within said chamber intermediate its ends and extending from side to side thereof for dividing the same into two compartments, and a filtering packing removably disposed within said chamber rearward of said frame.

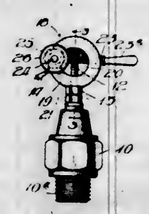
1,423,621. HEEL LOG CUTTING MACHINE. JOHN E. MITCHELL and DENNIS PARKS, St. Louis, Mo. Filed July 19, 1920. Serial No. 397,490. 12 Claims. (Cl. 143—52.)

1. In a heel log cutting machine, the combination of a frame, a shaft mounted to rotate therein, a spider carried by the end of the shaft, a cutter attached to the spider having a central opening formed with a cutting edge located with the center of the opening substantially on the axis of the shaft, movable log supporting means mounted on the frame for holding the heel log with its end projecting into the opening, and



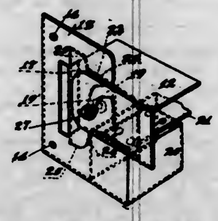
means for imparting a lateral rocking movement to the log supporting means to move the log against the edge of the cutter, and thereby sever a lift from the log, the said spider operating to permit the severed lift to fall after the same has been severed.

1,423,622. SPARK-TESTING DEVICE FOR GASOLINE ENGINES. WILLIAM P. MOTT, Chicago, Ill. Filed Mar. 29, 1919. Serial No. 286,097. 5 Claims. (Cl. 175—183.)



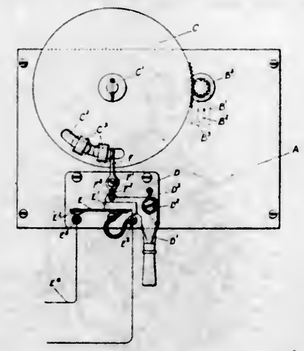
2. The combination with a threaded terminal, of an insulating member having a threaded engagement with said terminal, said insulating member having an aperture therethrough into which said terminal is adapted to project, a switch blade mounted on said insulating member and adapted to contact with said terminal within said aperture, and means for connecting said switch blade in a circuit.

1,423,623. BED-RAIL FASTENER. ALEXANDER S. PUTNAM, Los Angeles, Calif. Filed Oct. 1, 1921. Serial No. 504,556. 3 Claims. (Cl. 5—55.)



2. In a bed rail fastener, a corner post, a plate, having a portion seated in a slot in said post, means for securing said plate to said post, a flange projecting laterally from said plate and bearing against the outer face of the post, there being an inverted L-shaped slot formed in the outer portion of said plate, a side rail, a plate secured to the end of said side rail, and a rivet seated in said plate and side rail and adapted to occupy the slot in the first mentioned plate.

1,423,624. LIMIT SWITCH FOR ELECTRIC-DRIVEN HOISTS. ROY E. RICE, Bucyrus, Ohio, assignor to Roberts & Schaefer Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 16, 1919. Serial No. 318,018. 8 Claims. (Cl. 200—47.)



1. A limit switch for electric hoists comprising a switch element adapted normally to be in operative position, yielding means adapted to move it into inoperative position, a member, pivoted in unstable equilibrium, adapted to resist said yielding means, and means for tripping said member after a predetermined excursion of said hoist.

1,423,625. WELL-CLEANING DEVICE. FRANK JASPER ROGERS, Independence, Kans. Filed May 24, 1920. Serial No. 383,619. 8 Claims. (Cl. 166—18.)



1. A well cleaning device comprising a tubular member, a rod connected to the tubular member, a plurality of flexible arms connected to said rod, the free ends of which have a tendency to expand outwardly, a yoke

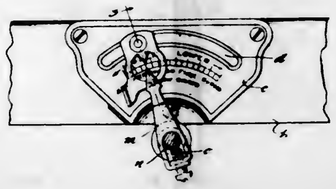
slidable with respect to the tubular member, and means carried by the yoke for engaging the free ends of the flexible arms when the yoke is at the limit of one movement with respect to said tubular member and for releasing the free ends of said arms to permit them to expand when the yoke is at the limit of its movement in an opposite direction.

1,423,626. **FASTENER-SETTING MACHINE.** WALTER SHAW, deceased, late of Dedham, Mass., by Helen A. Shaw, executrix, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 30, 1918. Serial No. 260,363. 22 Claims. (Cl. 218—15.)



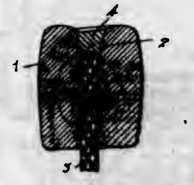
8. In a machine for setting compound fasteners, a member having a tapering hole of fixed dimensions, and two cooperative setting tools one of which is arranged to carry one of the component parts of a compound fastener through said tapering hole to the setting locality, said hole being adapted to correct the position of such fastener part relatively to its carrying tool without materially resisting the advancement of said part.

1,423,627. **BURNER REGULATOR.** ALVIN G. SHERMAN, Detroit, Mich., assignor to Detroit Vapor Stove Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 27, 1922. Serial No. 539,436. 8 Claims. (Cl. 116—125.)



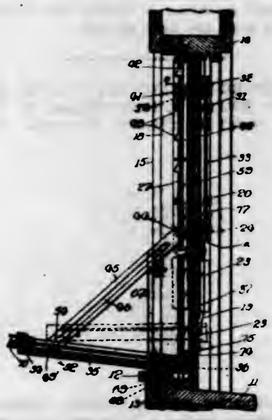
2. In a gas or vapor stove, the combination of a valve regulating the fuel feed, a handle connected with the valve, a pointer arm connected with the handle, a dial provided with indications to show the valve opening, and a slidable arrow fixable along said indications to fix the point of desirable valve opening.

1,423,628. **TUBE TOOTH AND CROWN.** AMOS H. SIBLEY, Shipbottom, and GEORGE L. VAN ALLEN, Newark, N. J., assignors to General Dental Mfg. Co., a Corporation of New Jersey. Filed Oct. 8, 1921. Serial No. 506,238. 7 Claims. (Cl. 32—30.)



1. A tube tooth or crown having the walls of the opening therein roughened in lines extending circumferentially and longitudinally of said opening.

1,423,629. **WINDOW.** JOSEPH SIROFSKE, Lafayette, Ind., assignor of one-fourth to Joseph Held, West Lafayette, Ind., and one-fourth to Christ Held, Lafayette, Ind. Filed May 2, 1919. Serial No. 294,161. 14 Claims. (Cl. 20—42.)

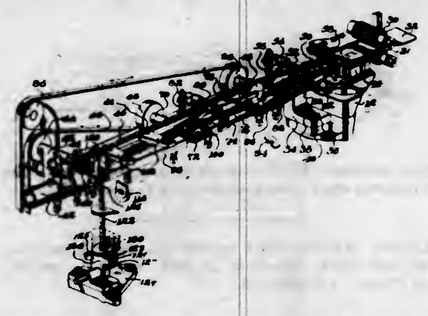


1. In a window structure, the combination of a frame, said frame having vertical channels in its opposite sides, a window sash in said frame, pins extending from the lower corners of said sash into said channels, a pin extending from one side of said sash into the adjacent channel and which pin is above the pin in the adjacent lower corner, a supporting bar slidably engaging at its upper end in said last named channel and at its lower end engaging said upper pin, and means whereby said upper pin may be withdrawn from its channel to release the sash for swinging movement away from the vertical plane, said bar supporting said sash in such position.

1,423,630. **BLANK-HANDLING MECHANISM.** RALPH C. SIMMONS, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 18, 1918. Serial No. 212,502. 27 Claims. (Cl. 164—22.)

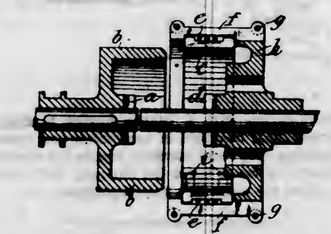
1. In a mechanism for stacking blanks, the combination of a portable, elongated holder member of non-circular cross section constructed and arranged to enter a non-circular aperture in a blank, means for receiving a blank having a non-circular aperture, turning it in its own plane until the longer axis of its aperture becomes parallel to the longer dimension of the cross section of said holder member, conveying it to said member and

stringing it thereon, and means for detachably supporting said member in blank receiving relation to the con-



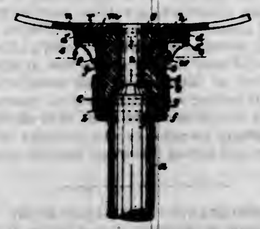
veying means, whereby said member with a stack of blanks strung thereon may be removed and transported without disturbing the relation of the blanks to each other.

1,423,631. **DOG CLUTCH.** WALTER SKAIFE, London, England. Filed Nov. 13, 1919. Serial No. 337,719. 6 Claims. (Cl. 192—53.)



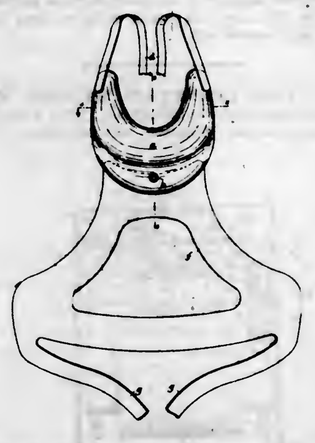
1. A clutch of the type herein referred to, comprising two rotary co-axial members provided with companion dog members one of which is adapted to be moved axially into the other, an annular friction clutch member comprising a plurality of segments carried by and adapted to rotate with one of said co-axial members and to act frictionally against the other co-axial member when one of such members is forced into the other and spring means holding said segments together.

1,423,632. **STEERING-WHEEL LOCK FOR VEHICLES.** HENRY LUND SMITH, Paterson, N. J. Filed Sept. 21, 1920. Serial No. 411,723. 2 Claims. (Cl. 70—129.)



1. In combination, a vehicle steering-post member having a lateral bearing flange, a steering wheel revolubly seated on the flange, a clutch member having a clutching portion forming a spline-connection with the flange and being movable up and down on said steering-post member into and out of locking engagement with the wheel, and means to hold the clutch member in its elevated position.

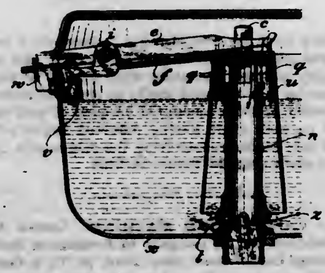
1,423,633. **SWIMMING HARNESS.** HENRY LUND SMITH, Paterson, N. J. Filed June 7, 1921. Serial No. 475,655. 1 Claim. (Cl. 9—17.)



Swimming harness including an elongated member tapered toward both ends and having its mid-portion flattened and adapted to bear flat against the wearer's throat and up against his lower jaw and girdling means attached to said ends of the member and also to the lowest part of its said mid-portion and adapted to extend around the wearer to hold said member flat against his throat.

1,423,634. **FLUSHING APPARATUS.** LEO SOLHEID, Duesseldorf, Germany. Filed Feb. 3, 1922. Serial No. 538,883. 4 Claims. (Cl. 4—5.)

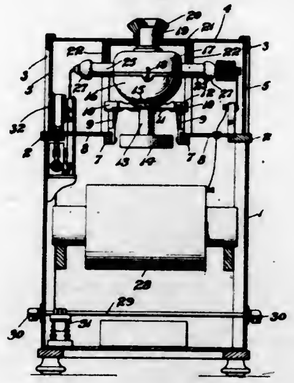




1. In a flushing apparatus of the character set forth, in combination with a siphon bell including a central stand-

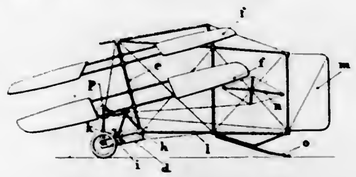
pipe presenting top and bottom ports, and means for operating said siphon bell, an aerating device for at will preventing air rarefaction within said siphon bell, and said aerating device adapted to be operated by a movement of said siphon bell operating means different from that for operating said siphon bell.

1,423,635. X-RAY CABINET AND MACHINE. WILLIAM H. THWAITES, Grand Rapids, Mich. Filed Jan. 3, 1921. Serial No. 434,448. 9 Claims. (Cl. 250—34.)



1. In combination, a cabinet having a horizontally located cylindrical upper portion formed with a transverse slot between its ends, a tube holding housing mounted to turn about a horizontal axis within said upper portion of the cabinet, said housing having a neck projecting therefrom through said slot, and an X-ray tube mounted horizontally within the housing.

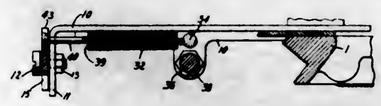
1,423,636. FLYING MACHINE. TRAJAN VUIA, Garches, France, assignor to Caius Brediceanu, Paris, France. Filed Oct. 19, 1920. Serial No. 417,943. 2 Claims. (Cl. (Cl. 244—19.)



1. A flying machine, comprising a framework, a pair of shafts at the opposite ends of said framework, said shafts being slightly inclined forwardly with respect to the vertical, means for rotating said shafts in opposite directions, and a plurality of blades mounted on each of said shafts, the blades on each shaft having different angles of incidence, and said blades constituting the sole means of propelling and sustaining the flying machine.

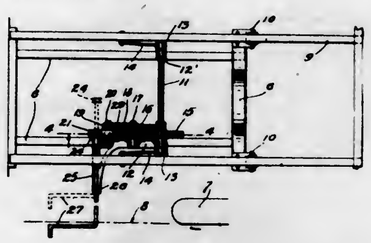
1,423,637. CALCULATING MACHINE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed June 9, 1921. Serial No. 476,198. 12 Claims. (Cl. 235—59.)

2 The combination of a totaliser truck having individual freedom in its runway and a tendency to move forward from its normal position when carrying totalizers, a type-
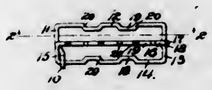


writer carriage, and an intervening adjustable connection for opposing the tendency of the truck to move forward.

1,423,638. MECHANICAL HOIST. FRANK E. ACKERMAN, St. Paul, Minn. Filed Aug. 25, 1921. Serial No. 495,191. 10 Claims. (Cl. 298—19.)



1. The combination with a vehicle having a dumping body, of a crank-shaft mounted on the vehicle and connected to the dumping body, and common means for operating the crank shaft to raise or lower the dumping body and for positively locking the same in a raised position.

1,423,639. SLIDE FOR THE STRAPS OF GARMENTS. CARL E. ANDERSON, East Orange, N. J., assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Filed Aug. 3, 1921. Serial No. 489,455. 3 Claims. (Cl. 24—200.)

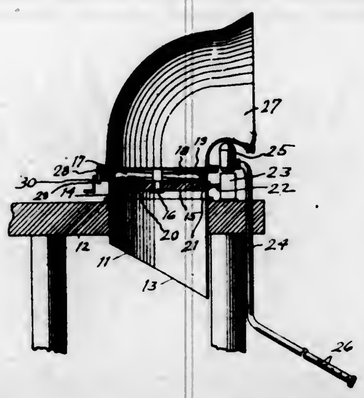


1. A slide for the straps of garments comprising a square wire forming an end strand, a top strand, a second end strand, a bottom strand which extends back to the point of beginning and around which the first mentioned end of the wire is wound, a strand extending upward and then transversely across between the top and bottom strands to form a central strand, at least one of said strands other than the end strands having separated portions thereof offset at right angles to the plane of the slide, said off-set portions being substantially parallel to the portions from which they are off-set and joined thereto by angular shoulders.

1,423,640. AUTOMATIC SURF-BREAKING APPARATUS. HERNDON O. BARLOW, Los Angeles, Calif. Filed May 5, 1921. Serial No. 466,890. 4 Claims. (Cl. 61—6.)

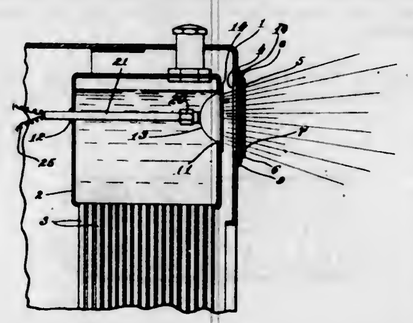
1. In a surf-breaking apparatus, the combination with an air compressor, of a delivery tube extending therefrom and beneath the water and having a series of discharge apertures, a tubular base member mounted on the wharf and having an open end beneath the wharf, a tubular sec-

tion on the base member, a transverse brace in the tubular section, a wind-wheel journalled in the brace member,



a funnel to direct the wind to the wind-wheel, a countershaft to drive the air compressor, and a pinion on the countershaft in engagement with the wind-wheel.

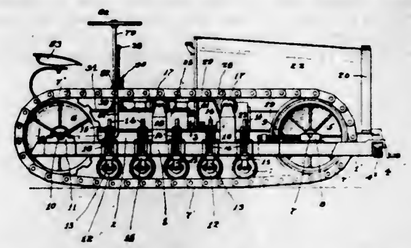
1,423,641. ILLUMINATED MARKER. EDWARD H. BAUSMAN, Baltimore, Md. Filed Dec. 24, 1921. Serial No. 524,648. 3 Claims. (Cl. 40—132.)



2. In combination with an automobile radiator having a shell and a tank, a cup in the front of the tank having a lamp socket, a lamp bulb therein, a conduit leading to the socket, and a transparent plate having a legend thereon seated in the shell in front of the cup.

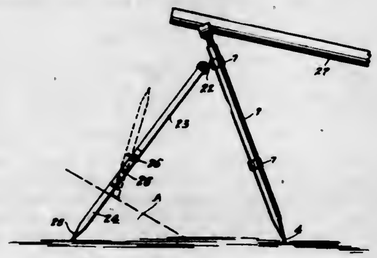
1,423,642. TRACTOR DRIVING AND MECHANISM THEREFOR. CARROLL N. BEAL and FAY C. BEAL, San Francisco, Calif. Filed Mar. 8, 1920. Serial No. 364,175. 4 Claims. (Cl. 180—9.2.)

1. A tractor including a frame, supporting and drive members carried thereby and arranged at opposite sides of said tractor, a power plant including a motor, a drive shaft associated therewith, a main clutch connecting the motor and drive shaft, a pair of independent variable speed power transmissions driven by said drive shaft through said main clutch, a driving connection between said power transmissions and the driven members at opposite sides of the tractor, a secondary clutch in each of said driving connections, a lever associated with each clutch, said levers arranged with their free ends overlap-



ping, and a single control member associated with said levers and capable of operation to selectively release said secondary clutch.

1,423,643. CHUTE SUPPORT. GEORGE BUCHAN, Sr., Mansfield, Ohio. Filed July 18, 1921. Serial No. 485,560. 2 Claims. (Cl. 248—2.)



1. In a coal chute support, tubular standards connected in spaced and parallel relation to each other, bars telescopically fitted within the tubular standards, a member connected to the telescopic members, a member pivoted to the connecting member to swing in a horizontal plane, cross braces connecting the standards in parallel relation, vertical bearings fitted to said braces, a bar attached to the cross connecting member and slidably fitted in said bearings.

1,423,644. HAIR SLIDE. OLGA EMILY BULEY, London, England. Filed Aug. 16, 1920. Serial No. 403,833. 9 Claims. (Cl. 132—22.)

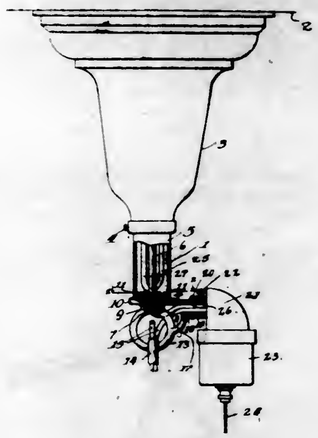


1. A combined hair slide and veil holder comprising a body portion, having means for securing the same to the hair, and at least one member adapted to be protruded from or retracted into the body portion and serving to secure the veil thereto.

1,423,645. SWITCH-SUPPORTING ATTACHMENT FOR ELECTRIC FIXTURES. FRANK LOWELL BUTLER, Chicago, Ill. Filed Apr. 25, 1921. Serial No. 464,090. 2 Claims. (Cl. 240—123.)

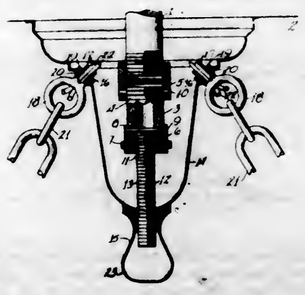
1. In an electric fixture, a stem comprising a vertically disposed rod supported at its upper end and threaded at its lower end, a tubular member arranged to encircle the rod, and means engaging with the rod at the lower end

thereof and contacting with the tubular member at its lower end for supporting the latter, said means comprising a flanged body portion provided with a threaded opening arranged to engage the threaded rod and formed with a lateral extension adapted for connection with a switch and with a loop portion adapted for connection



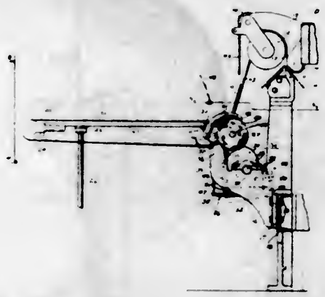
with means for supporting an element to depend therefrom, said body portion being formed with an opening therethrough adapted to guide an electrical conducting wire into the tubular member, and said lateral extension being formed with a bore for guiding an electrical conducting wire into the switch.

1,423,646. ELECTRIC FIXTURE. FRANK LOWELL BUTLER, Chicago, Ill. Original application filed Nov. 12, 1920, Serial No. 423,636. Divided and this application filed Sept. 2, 1921. Serial No. 498,125. 1 Claim. (Cl. 240—85.)



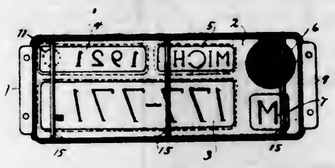
In an electric fixture, a coupling adapted to be secured to a fixed support, an exteriorly threaded insulating tubular member screwed into said coupling, a pin projected transversely through said coupling and tube, a cap having an interiorly threaded cylindrical portion adapted to receive the free end of said tube, a second pin projected transversely through said cap and said tube, whereby said cap and said coupling will turn as a unit, said cap having a threaded bore therein, and a threaded canopy supporting rod screwed into said bore, said rod being adapted to abut said second named pin.

1,423,647. DELIVERY MECHANISM FOR SIGNATURE-STITCHING MACHINES. MARTIN CHRISTENSEN, Racine, Wis., assignor to Christensen Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed June 3, 1920. Serial No. 386,236. 4 Claims. (Cl. 271—87.)



1. In apparatus of the class described, the combination of a frame including a horizontally extending portion having its inner end position adjacent the discharge end of a stitching machine or the like, rollers journaled in the inner and outer ends of said horizontal frame portion, a belt on said rollers, a shaft journaled in said frame, a feed finger mounted on said shaft, a bell crank fixed on said shaft, a drive shaft, a cam on said drive shaft, means to maintain one arm of said bell crank in operative engagement with said cam, a ratchet associated with one of said rollers, and a pawl carried by the other arm of said bell crank and adapted to engage said ratchet, whereby said belt is intermittently advanced and said feed finger is simultaneously oscillated, for the purpose specified.

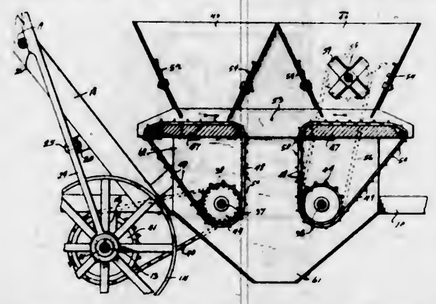
1,423,648. TAIL LIGHT AND NUMBER PLATE. RALPH S. CROSHAW, Grand Rapids, Mich. Filed Feb. 28, 1921. Serial No. 448,393. 2 Claims. (Cl. 40—133.)



1. In combination with a combined tail light and license number signal, an enclosing case having a curved reflecting back wall, an electric light bulb mounted within the case, a removable front plate mounted upon the case and having symbol openings therethrough, several detachable signal panels having symbol openings formed therethrough, said detachable panels connected with, and illuminated through the front plate, and readily detachable therefrom.

1,423,649. FERTILIZER DISTRIBUTER. DAVID C. DANIEL, Apex, N. C., assignor of one-half to Sylvester Brown Shepherd, Raleigh, N. C. Filed June 26, 1920. Serial No. 392,028. 1 Claim. (Cl. 198—52.)

A fertilizer distributer comprising a portable frame, aligned hoppers supported therein, said hoppers having common sides formed with parallel lower ends forming a common guide channel, guide members spaced apart longitudinally in said channel and transversely filling the same, a guide roller at the outer end of each guide member, conveyor chains operating over the guide members and rollers, a discharge chute common to both hoppers and having its discharge opening vertically aligned with the space intermediate the adjacent ends of said guide members, spaced shafts journaled in the frame and extending across the chute, gears connecting the shafts,



sprockets on said shafts engaged with the chains and means for driving one of said shafts, said conveyer chains operating in opposite directions whereby the fertilizer from the hoppers is mixed before being discharged from the chute.

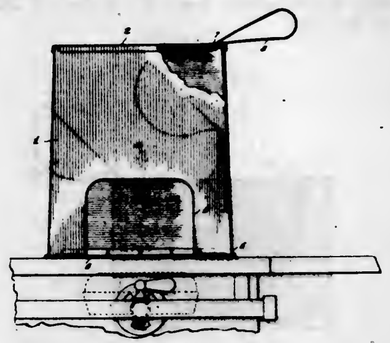
1,423,650. OIL BURNER. JOSEPH O. DECUIR, Houston, Tex. Filed May 11, 1920. Serial No. 380,623. 1 Claim. (Cl. 158—75.)



An oil burner including a tubular casing, a T-connection to which the same is anchored, a fuel pipe arranged concentrically therein and spaced therefrom forming a chamber, said fuel pipe being anchored to said connection, means for admitting fuel into said pipe, means for admitting steam into said chamber, a nozzle, formed with a bell-shaped discharge passageway and fitted within the discharge end of the casing formed with an annular shoulder which abuts against the adjacent end of the casing, forming a tight joint therewith, an elongated nipple formed integrally with said nozzle and anchored to said fuel pipe, said nozzle and nipple each having a circular row of ports through which steam may be discharged from said chamber through said nozzle.

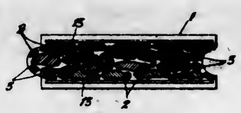
1,423,651. HEATING DRUM. CHARLES A. DE JACO, Newport, Ky. Filed Apr. 12, 1921. Serial No. 460,843. 2 Claims. (Cl. 126—95.)

1. A heating drum comprising a rectangular sheet metal structure adapted to be applied in an inverted position over a gas stove burner, provided with a flat top and opposing side walls tapering toward each other from



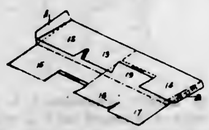
the base, and one wall thereof having an opening therethrough at the lower portion from the base edge.

1,423,652. PLATE FOR RESISTING FLAME AND CUTTING TOOLS. RALPH S. EDMONDSON, Elizabeth, N. J., assignor to American Abrasive Metals Company, a Corporation of New York. Filed Aug. 18, 1921. Serial No. 493,268. 8 Claims. (Cl. 109—1.)



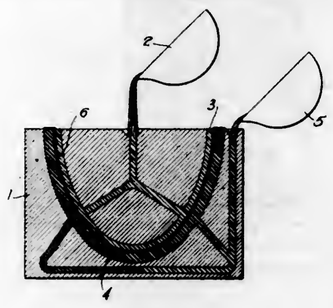
1. As an article of manufacture a slab or plate for use where combined powers of resistance to heat and cutting tools are required, which slab or plate is composed of a cast metal matrix in which is embedded a layer of particles of fused magnesia, and a layer of particles of fused aluminum oxide.

1,423,653. ENVELOPE. HENRY J. EICKOFF, Hamilton, Ontario, Canada. Filed May 13, 1922. Serial No. 560,759. 3 Claims. (Cl. 229—68.)



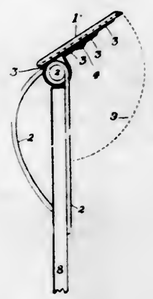
1. In a device of the class described, a rectangular blank having a plurality of opposed transverse cuts extending from the opposed longitudinal edges thereof and constituting flaps which when said blank is folded on longitudinal lines are adapted to interlock in staggered relation and gummed to contacting surfaces, said blank having tongues on opposite ends, the body subsequently to being longitudinally folded being folded on a central transverse line, one of said tongues being folded over the edge of an adjacent section and gummed to the opposite side thereof forming a correspondence pocket, the other tongue being folded over the latter tongue and inserted between an outer section of the body and an adjacent inner section thereof, and sealing wax fused between said tongue and said adjacent inner section.

1,423,654. CASTING PROCESS. GODFREY ENGEL, Sr., Brooklyn, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a Corporation of New York. Filed Nov. 2, 1920. Serial No. 421,241. 1 Claim. (Cl. 22—201.)



The herein disclosed process of casting a containing vessel which comprises casting a relatively thick outer layer of the external shape of the vessel and subsequently casting a thinner inner layer of the internal shape of the vessel within the thicker outer layer and permitting the inner thinner layer to cool before the outer thicker layer so as to cause the latter to shrink onto the former.

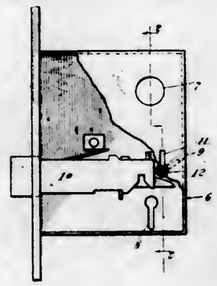
1,423,655. PRICE-TAG HOLDER. LOUIS E. ERICSON, San Diego, Calif., assignor to W. S. Rench, San Diego, Calif. Filed Oct. 24, 1921. Serial No. 509,877. 3 Claims. (Cl. 40—11.)



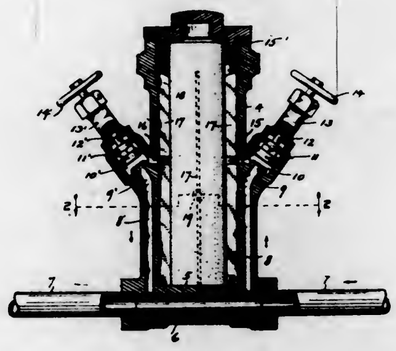
3. A price tag holder, comprising a clamp formed of spring wire with a forward and a rear leg so that said legs engage a support, and a coil joining the legs, a strap mounted on the coil of said clamp and frictionally engaging the coil so that it may be adjusted in the vertical plane and remain set, said strap being formed with a detent hole or lug and a pivot, and a tag holding plate formed with detent holes or lugs corresponding with the detent hole or lug of said strap and mounted on the pivot of said strap so that it may be turned thereon for lateral angular adjustment.

1,423,656. LOCK. ANDREW J. FALLON, Chicago, Ill. Filed Feb. 1, 1917. Serial No. 145,836. 3 Claims. (Cl. 70—14.)

2. A latch bolt and a casing, the outer and inner sides of which casing are each provided with a key-hole located in parallel planes and in directly reversed positions and adapted for one and the same key for locking and unlocking the bolt from the outside and for securing the bolt in its locked position from the inside by the direct contact of the key therewith.



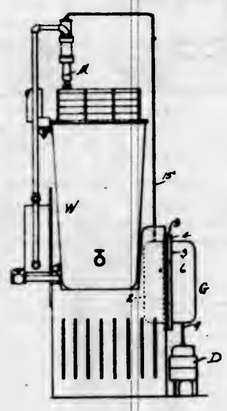
1,423,657. WATER SOFTENER. CHARLES B. HAINES, Indianapolis, Ind. Filed Aug. 10, 1921. Serial No. 491,250. 3 Claims. (Cl. 210—36.)



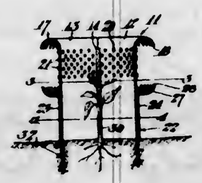
3. The combination with a water supply pipe, of a receptacle containing a substance in stick form to be acted on by flowing water, longitudinal ribs on the inner wall of the receptacle to space the stick from the said walls, a water passage from the supply pipe to a space in the receptacle, another water passage from another space in the receptacle to the water supply pipe, and valve means in each of said water passages to control the flow of water therethrough.

1,423,658. OZONE GENERATOR. HARRY BUXTON HARTMAN, Scottdale, Pa., assignor to Electric Water Steriliser and Ozone Company, Scottdale, Pa., a Corporation of Pennsylvania. Filed Jan. 24, 1920. Serial No. 353,858. 8 Claims. (Cl. 204—32.)

1. An ozone generator comprising a casing consisting of relatively separable sections provided with vertically disposed radial ribs and centrally arranged chamber-forming members, a generating unit consisting of spaced dielectric members and an intermediate electrode arranged between said sections and the dielectrics being provided with openings, and a terminal plug arranged in one of the chambers and electrically connecting with the electrode of the generating unit at the central portion thereof.



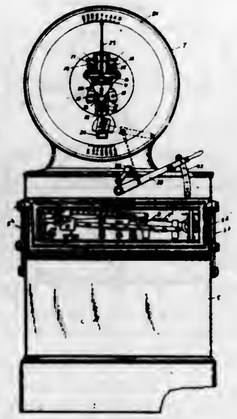
1,423,659. PLANT PROTECTOR. NELS H. HASSEL, Los Angeles, Calif. Filed May 31, 1921. Serial No. 473,588. 4 Claims. (Cl. 47—39.)



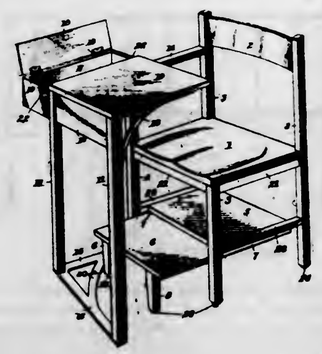
1. A plant protector comprising a circular casing open at each end, said casing being formed of two parts slidably connected; an outwardly and downwardly extending circular flange on the upper end of said casing; a series of teeth formed on the edge of said flange; a series of spurs formed on said casing under said flange; a circular sleeve on said casing formed of two parts slidably connected; an annular cup formed on the upper end of said sleeve; and a series of teeth formed in the edge of said cup.

1,423,660. WEIGHING SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed May 10, 1916. Serial No. 96,511. 39 Claims. (Cl. 265—62.)

1. In a scale, beam scale mechanism, pendulum weighing mechanism, and a detachable link adjustable in length for connecting said mechanisms to operate the pendulum mechanism from the beam mechanism when desired.



1,423,661. DESK AND CHAIR. OLIVE GRACE HENDERSON, Detroit, Mich. Filed Dec. 1, 1921. Serial No. 519,185. 2 Claims. (Cl. 155—128.)

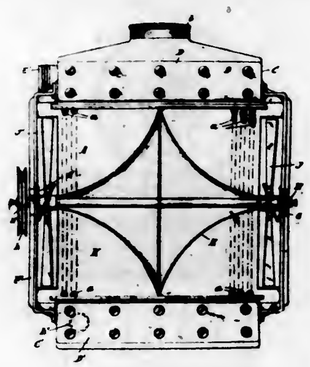


1. The combination with a chair, of a desk arranged in front of the same, one of the front legs of the chair being extended upwardly to support one of the adjacent corners of the desk, supporting means reaching to the floor from both of the remote corners of the desk, and a substantially L-shaped brace to extend along the floor and connect the bottom of said supporting means with the lower end of the leg having said upward extension.

1,423,662. RADIATOR FOR VEHICLES. EDWARD R. HEWITT, Midvale, N. J. Filed Apr. 10, 1919. Serial No. 288,906. 8 Claims. (Cl. 257—126.)

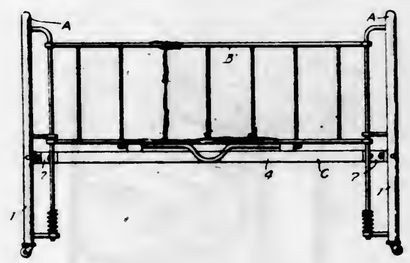
1. In a power vehicle, an engine cooling apparatus comprising two radiating sections laterally disposed, a medial

fan shaft and two oppositely pitched fans on said shaft, a stationary deflector intermediate said fans cooperating



with said radiating sections whereby either fan propels air to be deflected by the stationary deflector to the radiating section.

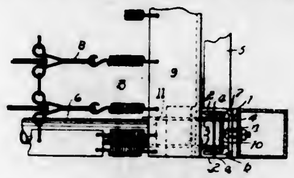
1,423,663. CRIB. ALEXANDER IZEN, St. Louis, Mo., assignor to Smith & Davis Mfg. Co., St. St. Louis, Mo., a Corporation of Missouri. Filed July 15, 1921. Serial No. 484,965. 1 Claim. (Cl. 5—58.)



In combination with a bed having end members provided with posts, pins projecting inwardly from said posts, a bed-bottom having corner-pieces projecting outwardly therefrom at an angle of substantially forty-five degrees, said corner-pieces comprising two metallic members bent substantially L-shaped, the legs of each L being connected by a neck, said L-shaped members being secured together at their necks so as to provide oppositely disposed forks, one of said forks engaging the corner of the bed-bottom and secured thereto, the other being adapted to embrace a bed-post, and one side of the last mentioned fork being provided with an inclined slot for receiving one of the aforesaid pins for supporting the bed-bottom.

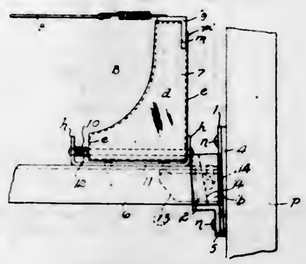
1,423,664. BED CORNER. ALEXANDER IZEN, St. Louis, Mo., assignor to Smith & Davis Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 24, 1921. Serial No. 502,877. 2 Claims. (Cl. —55.)

1. In combination with a bed-post and side rail adapted to be secured thereto, a plate secured to the post and inclined thereto, said plate being provided with a pair of inwardly projecting arms having oppositely disposed downwardly inclined surfaces in opposing relation



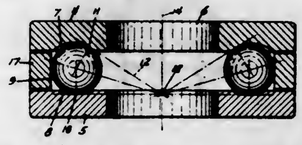
to the plate, and a bracket on the side rail adapted to be wedged between said surfaces.

1,423,665. BED CORNER. ALEXANDER IZEN, St. Louis, Mo., assignor to Smith & Davis Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 24, 1921. Serial No. 502,878. 2 Claims. (Cl. 5—63.)



1. In combination with a bedstead and bed-bottom adapted to be secured thereto, said bed-bottom being provided with side-rails and end rails, a bracket pivotally mounted on each end of a side rail and capable of longitudinal movement relative to the side rail, said bracket having a slotted connection with one end of an end rail, and means for securing the bracket to a bed-post.

1,423,666. BALL BEARING. LOUIS LANGHAAR, Cincinnati, Ohio. Filed June 26, 1920. Serial No. 391,938. 4 Claims. (Cl. 64—49.)

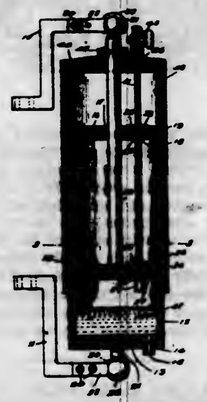


4. A ball thrust bearing comprising a row of balls, two opposed ball races each having a single spot of contact with each ball and at least one of said races having a ball track of curved cross section, and means for restraining the balls to travel on said races with their axes and the common tangents to said balls and races converging towards a point in the axis of the bearing at one side of a plane passing diametrically through the balls on opposite sides of said axis of the bearing.

1,423,667. SHOCK ABSORBER. EMMETT SYLVESTER LEHR, Salt Creek, Wyo. Filed Nov. 18, 1920. Serial No. 424,926. 7 Claims. (Cl. 188—88.)

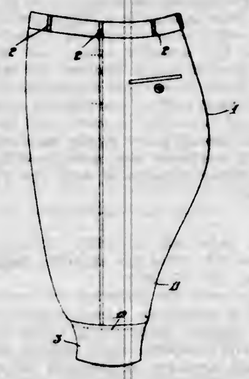
1. In a shock absorber of the character described, a bracket adapted to be secured to the vehicle body, a bracket adapted to be secured to the axle or the like, a cylinder having a lower cylinder head and an upper cylinder head provided with a piston rod opening and with

another opening having a valve seat, means for universally connecting said cylinder to said axle bracket, a piston reciprocable in said cylinder and having an opening therethrough provided with a valve seat, a piston rod for the piston, means for universally connecting the piston rod to the vehicle body bracket, a pressure operated valve cooperable with the valve seat of the piston and provided with an opening and having an elongated tubular valve stem adapted to coact with the lower head of the cylinder to positively operate said valve, a second pressure operated valve cooperable with the valve seat of the upper cylinder head and having an opening therethrough and a tubular valve stem, a stand pipe extending through the openings of said valves and their tubular valve stems to the atmosphere, a hand-cock controlling said stand pipe, and a cylindrical casing having a closed end secured to the piston rod at its upper end slidably enclosing said cylinder.



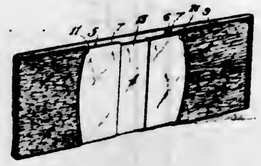
7. In a shock absorber of the character described, a cylinder, a piston reciprocable in said cylinder and having an opening therethrough provided with a valve seat, a pressure operated valve cooperable with the valve seat, a stand pipe extending through said pressure operated valve, and means for controlling communication of said stand pipe with the atmosphere.

1,423,668. KNICKERS. PHILIP LEIKEN, Brooklyn, N. Y., assignor to Peerless Smoking Jacket Company, New York, N. Y., a Corporation of New York. Filed Oct. 21, 1921. Serial No. 509,393. 1 Claim. (Cl. 2—122.)



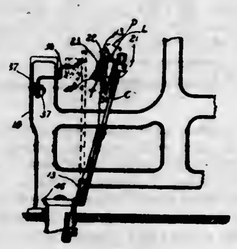
As an article of outer wearing apparel, a knickerbocker of woven material, each leg thereof being provided with a cuff extending substantially below said leg and comprising a continuous length of elastic tubular knitted material doubled back upon itself to form a folded edge, the two ends being permanently secured to the said leg.

1,423,669. BILL FOLD. CHARLES L'ENFANT, New York, N. Y. Filed Aug. 20, 1921. Serial No. 493,779. 7 Claims. (Cl. 150—38.)



1. A bill fold comprising body walls, one of said walls consisting of two sections disposed in alignment and having their inner opposed ends spaced apart and means permanently connecting the opposed ends of said wall sections to each other and foldable upon itself when said wall sections are moved into parallel relation to each other, said connecting means during the folding thereof permitting of the relative longitudinal movement of said wall sections toward and from each other with respect to said connecting means.

1,423,670. BOBBIN STRIPPER FOR AUTOMATIC LOOMS. JAMES T. MALLOY, Lowell, Mass., assignor, by direct and mesne assignments, of one-half to John J. Henderson, Dracut, Mass., and one-half to Samuel B. Haines, Brookline, Mass. Filed Mar. 13, 1920. Serial No. 365,516. 8 Claims. (Cl. 139—85.)

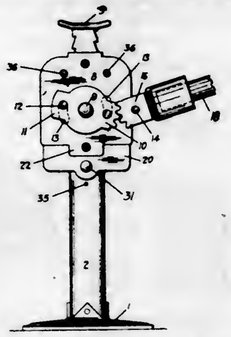


1. The combination with a weft replenishing loom having a frame, a breast beam, and a lay beam with a bobbin passage, of a trap comprising side bars pivoted to the lay beam and a cross bar connecting them, leaving a bobbin passage between, such cross bar and part of the side bars being located in the lay beam bobbin passage, a spring adapted to keep the trap normally closed, and a dagger attached to the frame in such position that it will so engage the trap as to open it during part of the period of the lay beam's movement to and from the breast beam.

1,423,671. QUICK-ACTION DOUBLE-GEAR JACK. ALEXANDER W. MARR, Canton, Ohio. Filed Oct. 8, 1920. Serial No. 415,620. 12 Claims. (Cl. 254—109.)

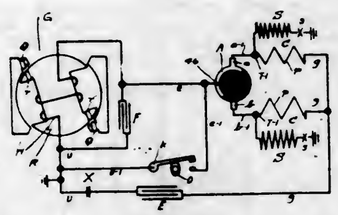
1. In a jack, the combination with a tubular standard, of a lifting bar therein having ratchet teeth on two opposite sides, the teeth on one side of said bar being disposed in zig-zag relation to the teeth on the other side of said bar, lifting elements for alternately engaging the

teeth on said bar, and reduction gear means for imparting an alternate up and down movement to said lifting



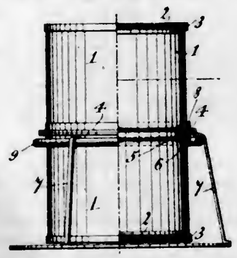
elements to raise the lifting bar, said reduction gear means and the zigzag disposed teeth on the lifting bar co-operating to lift a heavy load.

1,423,672. MAGNETO-IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. JOHN LEWIS MILTON, Cleveland, Ohio, assignor, by mesne assignments, to The Teagle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 18, 1913, Serial No. 749,173. Renewed Dec. 16, 1920. Serial No. 431,096. 9 Claims. (Cl. 123—148.)



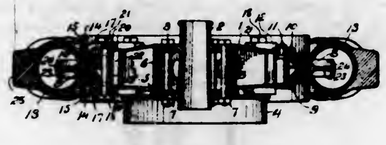
1. In an ignition generator, the combination with opposite field magnet poles and an armature operatively mounted between the poles, of a cover plate fitting between the said poles, a condenser and a spark gap structure, the said cover plate, condenser and spark gap structure forming a self-contained unit adapted to be assembled before the cover plate is mounted in the generator.

1,423,673. METAL CASK, DRUM, OR THE LIKE. SIDNEY CLARK MOUNT, Southall, England. Filed May 9, 1921. Serial No. 468,065. 4 Claims. (Cl. 220—8.)



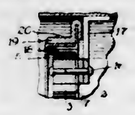
4. A metal cask comprising separable parts, internal jointing means therefor containing a medium having a relatively low melting point and external mechanical jointing means adjacent to the internal jointing means said external means being adapted to be supported by a tripod having a Bunsen ring by which heat can be applied externally to the barrel to melt the medium of the internal jointing means in order to make and break the same, substantially as described.

1,423,674. VEHICLE WHEEL. SWENEY MUNSON, Fowler, Colo. Filed Oct. 17, 1921. Serial No. 508,328. 9 Claims. (Cl. 152—10.)



1. In a vehicle wheel, a rim having an annular peripheral tire bearing surface, an inflatable tire having a longitudinally divided inner periphery and into which the rim extends, the tire when inflated being out of contact with said surface, and when deflated, being arranged to bear against said surface, two clamping rings which respectively press opposite sides of the tire against opposite sides of the rim, each of said rings having a relatively wide laterally extending horizontal annular portion against which the deflated tire is adapted to bear, and means for clamping said clamping rings against the tire and against said rim, substantially as set forth.

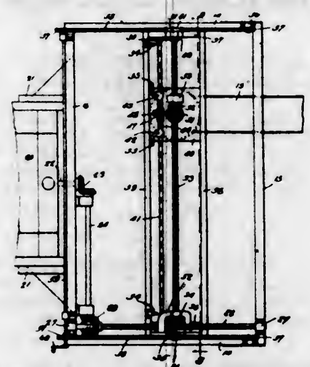
1,423,675. GEAR HOUSING. JOSEPH A. NEATHAMMER, Alhambra, Ill. Filed June 11, 1921. Serial No. 476,933. 1 Claim. (Cl. 74—7.)



A gear housing for use with a train of gears wherein one of the gears is fixed on a driven member for rotating the same, said housing comprising a stationary disc and a rotatable disc arranged axially and disposed in substantially parallel spaced relation, the opposed faces of said discs having interfitting annular flanges arranged to form a peripheral wall for said housing, said rotatable disc being adapted to be fixed to rotate with said driven member, and an arcuate guard rigidly mounted on the upper part of said stationary disc, said guard being formed to have interfitting engagement with the rim of said rotatable disc.

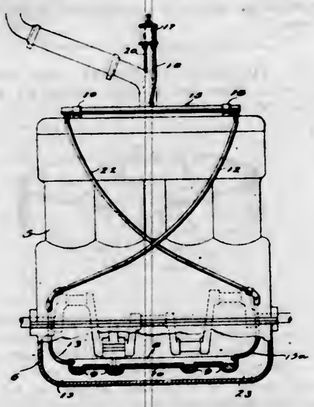
1,423,676. MANURE LOADER. ROMIE J. NEWCOMB, Baltimore, Md. Filed Apr. 19, 1921. Serial No. 462,630. 6 Claims. (Cl. 37—27.)

1. An apparatus for gathering and conveying material, comprising a supporting frame, movable gathering and conveying elements connected to travel together, a support for said elements, rails slidably supporting said support and arranged transversely of the supporting frame, supporting means for the rails carried by the supporting frame and movable in the direction of the length thereof, operating means for the supporting means, a feed screw carried by the supporting means and having reversely arranged threads, feed nuts carried by the aforesaid support and alternately engageable with the



respective threads of the feed screw, operating means for the feed-screw, and means for operating the gathering and conveying elements.

1,423,677. INTERNAL-COMBUSTION ENGINE. ALBERT E. NICHOLLS, Wilson Creek, Wash. Filed May 17, 1921. Serial No. 470,346. 5 Claims. (Cl. 184—13.)



1. The combination with an internal combustion engine having a crank case, of a horizontally arranged longitudinally extending manifold secured to the upper portion of the engine and extending for the major portion of the length of the engine, oil distributing pipes having their upper terminal portions extended into the terminal portions of said manifold and terminating above the lower wall of the interior of the manifold thereby providing an oil reserved space extending for the entire length of the manifold, said oil distributing pipes being crossed and having their lower terminal portions connected to said crank case.

1,423,678. BROOM HOLDER. JOHN LEE OEFINGER, Denver, Colo. Filed July 9, 1921. Serial No. 483,561. 1 Claim. (Cl. 24—249.)

A broom holder consisting of a support which is reversely bent intermediate its ends to form an eye for the support of a ring, one end of said support having a threaded portion, the other end being coiled about the threaded end just above the threaded portion thereof and



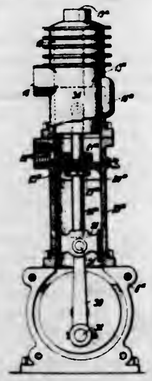
a wire ring having one end of the wire formed into an eyelet connected to the eye of said support.

1,423,679. DRAIN VALVE. STEVE PAVITCHICH, Woodriver, Ill. Filed Feb. 4, 1922. Serial No. 534,124. 3 Claims. (Cl. 182—14.)



1. The combination with a sewer pipe having an internal shoulder near its inlet end, of a tubular member extending downwardly into the sewer pipe, a flange on the upper end of said tubular member seated on the shoulder within the sewer pipe, a web extending across the upper end of said tubular member, a rod extending downwardly through said tubular member beyond the lower end of said member and having its upper end rigid with said web, a cage rigid with said flange and extending downwardly beyond the lower end of said tubular member, a valve element within said cage, and a tube within said valve element and opening through the upper end thereof and receiving the lower end of said rod and permitting said valve element to move upwardly to contact with the lower end of said tubular member.

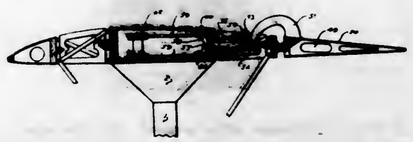
1,423,680. INTERNAL-COMBUSTION ENGINE. FRANK L. H. PFEIL, Philadelphia, Pa. Filed Mar. 12, 1920. Serial No. 365,272. 3 Claims. (Cl. 123—74.)



1. The combination with a two-cycle internal combustion engine having a piston rod, cross head, and connect-

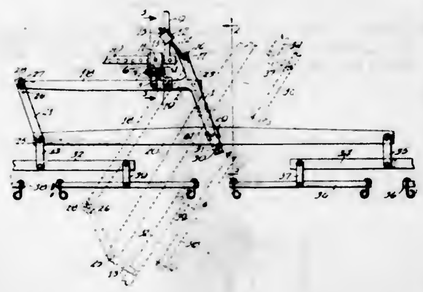
ing rod, of a structure adapted to be interposed between the explosive cylinder and the crank case of said engine, said structure including a hollow cylinder section with a partition located inwardly from one end thereof to provide a space between said end and the partition, said partition having a stuffing box through which the piston rod of the engine can extend for attachment to said cross head, said cylinder section having a guideway for said cross head and located between said partition and the opposite end of said cylinder section whereby the cross head can be connected to the connecting rod leading outward from the crank case, said first end of the cylinder section having a portion for attachment to the explosive cylinder of the engine whereby said space will form a compression chamber for the gas to permit compression of the latter during the movement of the piston in the explosive cylinder, the opposite end of said cylinder section having a portion for attachment to the crank case; substantially as described.

1,423,681. AIRPLANE. GEORGE B. POST, Ogdensburg, N. Y., assignor to Huff, Daland & Company, Inc., Ogdensburg, N. Y., a Corporation of Delaware. Filed Mar. 25, 1921. Serial No. 455,578. 18 Claims. (Cl. 244—12.)



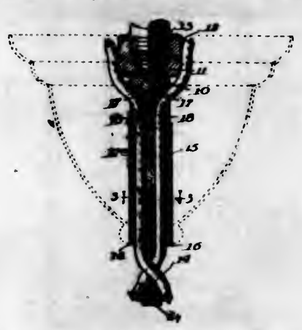
1. In a flying machine, a supporting plane comprising a fixed portion, an adjustable portion, an intermediate portion between the other portions, and adjusting connections including rigid elements extending through the intermediate portion and connecting the first mentioned portions, whereby the depth between the chord and supporting surface may be varied.

1,423,682. FOUR-HORSE EQUALIZER. JOHN ROBSON, Anita, Iowa. Filed May 20, 1921. Serial No. 471,039. 4 Claims. (Cl. 278—8.)



1. A device of the character described comprising a draft bar having a straight body portion adapted to be adjustably connected at one end with a vertical tongue, and an integral lateral extension adapted for connection with the outer end of the vertical tongue, a slide slidably mounted on said draw bar, a draft equalizing frame pivotally mounted on said slide member, and means associated with one end of said equalizing frame and said slide member for moving said slide member back and forward on said draw bar as said draft equalizer is pivoted as in turning the vehicle.

1,423,683. STEM FOR ELECTRIC-LIGHTING FIXTURES. ELIAS ROCKOFF, Chicago, Ill., assignor of one-half to Bernard Rockoff, Chicago, Ill. Filed July 6, 1920. Serial No. 394,206. 7 Claims. (Cl. 240—85.)



1. A lighting fixture stem, one end of which is provided with means for securing said stem in position, the opposite end having a pair of apertures which are separated by a wall which extends from said end to adjacent the opposite end of the stem, grooves arranged upon the opposite sides of the wall which separates said apertures, the opposite sides of said wall providing one face of each of said grooves, a supporting member projecting from the opposite end of said stem whereby another supporting member may be secured to the stem, said last mentioned supporting member being arranged in substantial alignment with said wall between the apertures provided at the lowermost end of the stem.

1,423,684. TROUSERS SUPPORT. ABEL ROSE, Cleveland, Ohio. Filed Feb. 4, 1921. Serial No. 442,420. 2 Claims. (Cl. 241—9.)



1. In a trousers support, the combination with a pair of trousers provided with a waistband, and a series of attaching devices extending along and detachably connected to the marginal edges of said waistband and provided with depending hooks; of a trousers supporting belt comprising two side sections adapted to be arranged within said waistband and provided on their outer portions with loops adapted to receive the hooks of said fastening devices.

1,423,685. CURTAIN-WINDOW LIGHT. JOHN B. SCHAAF, Cincinnati, Ohio, assignor of one-half to Charles Arbogast, Cincinnati, Ohio. Filed July 9, 1920. Serial No. 394,931. 1 Claim. (Cl. 296—145.)



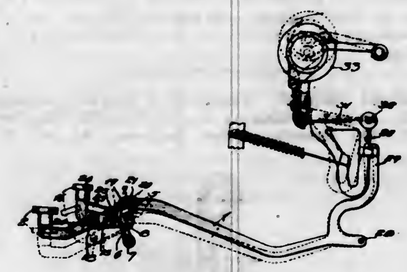
In a device of the class described, a base frame of substantially semi-circular cross section, adapted to surround a curtain opening, means integral therewith for removably fastening a window light therewithin against the concave side of said base frame and against its inner periphery, a clamping frame providing a semi-tubular and a flat clamping portion placed in opposition to the said base frame, the

concurrent peripheral edges of the two frames acting to clamp the said transparent material, and a means integral with the base frame for attaching the same about the opening and for clamping the two frames together.

1,423,686. ELECTROTINNING. LOUIS SCHULTE, Chicago, Ill. Filed July 12, 1920. Serial No. 395,682. 5 Claims. (Cl. 204—17.)

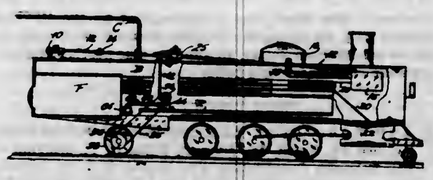
1. The method of making a plating electrolyte comprising the making of a solution of caustic potash in water, adding dilute hydrofluoric acid thereto until an acid reaction is obtained, diluting the resulting solution with water, and dissolving metallic tin in said solution by means of an electric current.

1,423,687. TYPEWRITER ATTACHMENT. JOHN M. SCHULTZ, Chicago, Ill., assignor, by direct and mesne assignments, to John S. Chenneour, Chicago, Ill. Filed July 9, 1919. Serial No. 309,708. 2 Claims. (Cl. 197—80.)



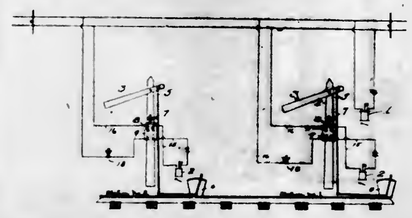
1. In a typewriting machine, a platen shift lever having a pin projecting from one side thereof, a rocking lock lever pivotally mounted on said shift lever having an integral extension projecting at right angles thereto, a finger key connected with said lever, a pivoted latch lever, said right angle extension portion of the lock lever being adapted to normally prevent locking cooperation between said pin and pivoted latch lever, but adapted upon the actuation of said lever to be moved rearwardly from said pin slidably on the upper portion of the latch lever to a position to permit a portion of the latch to ride over and engage said pin, said angle extension of said lock lever directly engaging the upper surface of the latch lever when the same cooperates with the pin to hold the latch lever in locked position.

1,423,688. STEAM DRIFTER MECHANISM FOR LOCOMOTIVES. FREDERICK B. STARLE, Denver, Colo. Filed June 11, 1920. Serial No. 388,232. 2 Claims. (Cl. 121—137.)



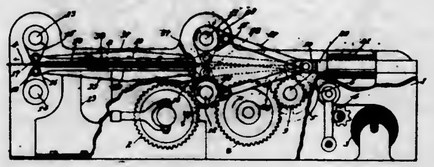
1. In a drifter lubricator for locomotives having a live steam conduit adapted to be connected with the cylinders of a locomotive, a pressure controlled valve in said conduit, and a source of compressed air, means operated by a moving part of said locomotive, when the latter is running, for intermittently transferring air from said compressed air source to said valve, said means comprising a cylinder, a reciprocating piston therein, a crank and connecting rod for reciprocating said piston, an annular pocket in said piston, an intake and an outlet pipe entering said cylinder and so located that the pocket engages alternately with first one and then the other whereby air is intermittently transferred from the intake pipe to the outlet pipe.

1,423,689. SIGNAL DEVICE FOR RAILWAY TRAIN-ORDER SEMAPHORES. HARRY A. SHLIN, Reading, Pa. Filed Jan. 7, 1921. Serial No. 435,614. 1 Claim. (Cl. 246—3.)



In a signal device for railway rain order semaphores, a hand actuated semaphore, an electric switch operatively connected with the semaphore, an inside circuit and an outside circuit, both of which are connected with the switch, whereby indications on both circuits may be given simultaneously, and a circuit breaker in the outside circuit, whereby the outside circuit may be deenergized while the inside circuit is left at the indication originally given.

1,423,690. ROTARY PUNCH. JOHN Q. SHERMAN, Dayton, Ohio. Filed Jan. 5, 1920. Serial No. 349,372. 9 Claims. (Cl. 164—90.)

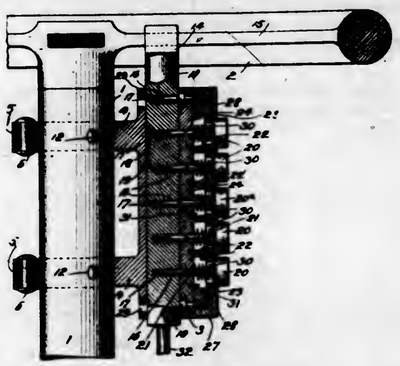


1. In a rotary punch, the combination with operating mechanism, of a single pair of punch bar elements extending lengthwise of a web of paper to be punched, the one bar carrying an extended number of longitudinally arranged punches, and the other bar provided with a similar number of longitudinally arranged matching holes for the punches, and means actuated by the operating mechanism for moving said bars toward and away from each other through a rotary path while maintaining them in parallel with relation to each other and means for controlling the amount of material fed between said bars, whereby the holes shall be punched in spaced series for the several punching operations.

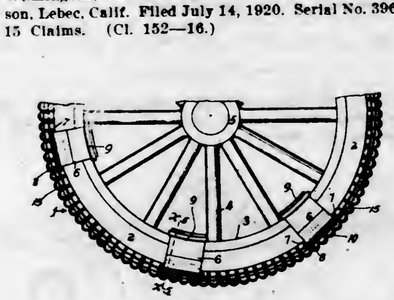
1,423,691. LOCK FOR AUTOMOBILES. JACOB SOKOLOV, Detroit, Mich., assignor to Defiance Combination Auto Lock Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 27, 1920. Serial No. 369,435. 11 Claims. (Cl. 70—54.)

1. In a lock, the combination with a bolt provided with a spring pressed tumbler, of a depressible key provided with a stem adapted to cooperate with said tumbler to release the bolt, said key being rotatable about its stem to

a predetermined angular position for releasing said bolt when depressed, cooperating members adapted for limiting the depression of the key, and means for adjusting the relation between said cooperating members, whereby the angular position of the key when depressed for releasing said bolt may be varied.



1,423,692. TIRE PROTECTOR. GEORGE W. SOMMERVILLE, Wilmington, Calif., assignor of one-half to Towal Nelson, Lebec, Calif. Filed July 14, 1920. Serial No. 396,080. 15 Claims. (Cl. 152—16.)

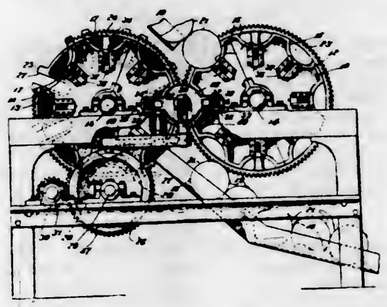


13. A tire protector composed of canvas strips sewed transversely to form pockets and arranged side by side in annular form to fit a wheel; said pockets having looped cord sections therein radial to the annulus thus formed; means to fasten the corded strips together and a cementing and protecting composition in said strips and cord sections.

1,423,693. MACHINE FOR APPLYING EARS TO PAILS. WILLIAM SPAIN, Riverside, Ill., assignor of one-half to Corn Products Refining Company, Argo, Ill., a Corporation of New Jersey. Filed Aug. 9, 1920. Serial No. 402,406. 22 Claims. (Cl. 113—1.)

1. In apparatus for applying handle-receiving ears to pails, the combination with a support for a pail body adapted to support said body in a position to receive an ear, of an ear-retaining device adapted to normally hold an ear out of contact with said pail body, and mechanism for producing relative movement as between said support and ear-retaining device to position said ear against the pail body.

4. In apparatus for applying handle-receiving ears to pails, the combination with a conveyor adapted to support a pail body together with its previously applied cover rim in a predetermined position, of ear-positioning devices adapted to move ears into contact with opposite sides of the pail body while the pail body is in said predetermined position and maintain said contact until the ears are attached to said body, and means for producing relative



movement as between said pail body and ears while the ears are held in contact with said body whereby the ends of said ears are forced between the wall and cover rim of the pail.

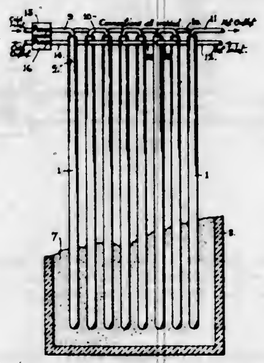
1,423,694. WHEEL. FREDERICK S. STAFFORD, Chicago, Ill., assignor to Henry G. Saal, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,642. 5 Claims. (Cl. 301—37.)



1. A wheel having a tire, spokes, and a hub which has a flange and a circular clamping plate between which hub elements the inner ends of the wheel spokes are disposed, and bolts that clamp said hub elements against the spokes; in combination with a disc substantially covering a face portion of the wheel that is surrounded by the tire and formed with an outwardly bulging annular swell near the wheel hub that surrounds an annular disc portion and covers ends of the aforesaid bolts.

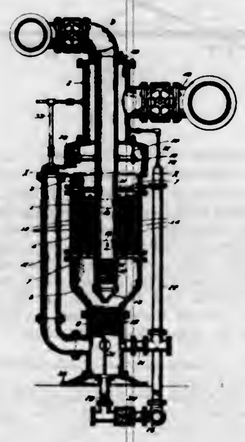
1,423,695. HEAT EXCHANGER OR CONDENSER. PALMER ST. CLAIR, Jr., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 9, 1919. Serial No. 329,466. 2 Claims. (Cl. 257—246.)

1. In an apparatus for exchanging heat between fluids, a plurality of heat exchanging devices connected in series and each comprising an inner tube or heat conductive material provided with a twisted ribbon-like element for dividing the interior thereof into winding conduits, a spirally wrapped strand upon the outer surface of said tubular member, a second tubular member covering said strand and co-acting therewith to form with said strand and first named member an exterior winding conduit, means for



connecting the said interior conduits, and means for connecting the said exterior conduits whereby a flow of liquid may be maintained in both conduits throughout the several heat exchanging devices.

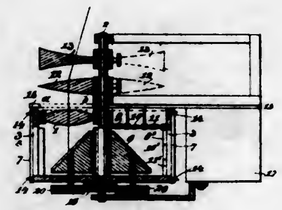
1,423,696. APPARATUS FOR AND PROCESS OF PURIFYING GAS. ARTHUR L. STEVENS, Chicago, Ill. Filed Sept. 22, 1919. Serial No. 325,442. 16 Claims. (Cl. 183—121.)



1. A gas purifying apparatus comprising in combination a reservoir for containing a purifying liquid, a by-pass pipe connected with said reservoir at an upper and lower level, a gas supply conduit discharging into said reservoir at an intermediate level, a grate in said reservoir above the discharge end of said supply pipe, a body of small objects of a configuration to provide voids between them supported by said grate for subdividing the gas into minute streams, and a gas discharge conduit connected with said reservoir for conducting away the cleaned gas.

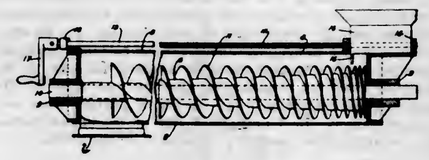
1,423,697. CINEMATOGRAPH. JAN SZCZEPANIK, Tarnow, Poland. Filed June 28, 1920. Serial No. 392,446. 4 Claims. (Cl. 88—168.)

1. In a cinematograph, a plurality of cameras symmetrically arranged about a common axis, a drum for a film band having a wall penetrable by light concentric with said axis, the plane of the objectives of the cameras being at an angle to said axis and said wall, and reflecting elements in the angle between said objectives and said wall,



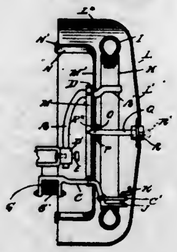
a film band on said drum, said plurality of cameras and said film band being movable, the one with respect to the other about said axis, and means to successively open and close the objectives of the cameras.

1,423,698. FEEDING DEVICE. FRANK S. THURSTON, Chicago, Ill. Filed Sept. 14, 1920. Serial No. 410,244. 2 Claims. (Cl. 198—213.)



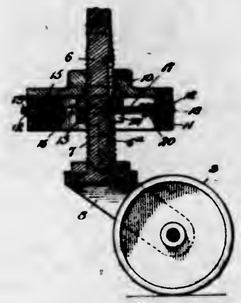
1. In a feeding device, a tubular housing, bearings supported at the ends of the housing, said housing having an opening formed in the upper surface thereof and having a discharge opening formed at one end thereof, a spiral conveyor operating within the tubular housing, a threaded shaft operating above the opening, a receiving hopper movable along the threaded shaft for accurately distributing material within the housing and means carried by the hopper for preventing material fed to the housing from being thrown therefrom.

1,423,699. TIRE CARRIER. HARRY B. TUTTLE, Jeannette, Pa. Filed Nov. 10, 1919. Serial No. 337,079. 8 Claims. (Cl. 224—29.)



6. In a device of the character described, the combination with a spare tire carrier member having a cover member with a rim portion for surrounding the tire, of a plurality of bracket members secured to a vehicle and interiorly engaging said rim portion to support the cover member, and means carried by said brackets within said cover member providing a support for the tire.

1,423,700. LOCKING MEANS FOR CASTER PINTLES. GEORGE F. VAN METER, Indianapolis, Ind., assignor to United States Caster Co., Incorporated, Indianapolis, Ind. Filed Sept. 12, 1921. Serial No. 500,087. 1 Claim. (Cl. 16—19.)



In a caster, the combination of a shank, a hanger secured thereto, a roller secured to the hanger, a slot provided longitudinally in the threaded portion of the shank, and a bearing threaded on the shank and adapted to move upwardly and downwardly on the shank, a cup shape portion formed on the bearing and an inner flange formed on the lower end of the bearing, an aperture formed in the flange, apertures formed in the cup-shaped portion, and a locking element adapted to seat in the apertures of the cup-shaped portion and also in the aperture of the flange, and having a portion that normally seats in the longitudinal slot of the shank, means for retaining the portion in the slot of the shank.

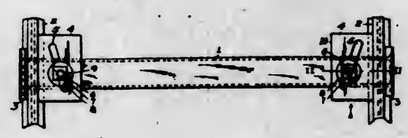
1,423,701. NAPKIN-DISPENSING DEVICE. CLAY R. VINSON, Tulsa, Okla. Filed June 6, 1921. Serial No. 475,271. 6 Claims. (Cl. 211—82.)



1. In a device of the character described, the combination of a horizontal support, an angular supporting member secured to one edge of said support and projecting both above and below the same, means for suspending a roll of material from the lower projecting portion of said member, a cover member applied to said supporting member and having means cooperating with the upper projecting portion of the latter to clamp the material while a portion is being torn therefrom, and guiding means between the source of material and said clamping means and including means for preventing rearward movement of the material after a portion has been torn therefrom.

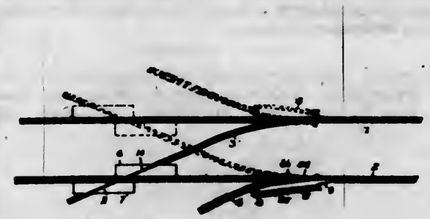
1,423,702. RAILWAY TIE AND SECURING DEVICE. SAMUEL WALLWORK, Sommerville, Pa. Filed Apr. 18, 1922. Serial No. 554,475. 5 Claims. (Cl. 238—347.)

1. The combination with a flanged rail and a metal tie having a perforation adjacent the flange of the rail, of a clamping plate of wrought metal having a cam slot over said perforation and lying at an angle to the line of the rail with its edge lying over the flange of the rail, and a



headed locking member extending through said perforation and slot and clamping the plate so that the plate is sprung or bent and applies yielding pressure to the rail.

1,423,703. SWITCH CONSTRUCTION. SAMUEL WALLWORK, Summerville, Pa. Filed Apr. 18, 1922. Serial No. 554,476. 5 Claims. (Cl. 238—12.)



1. The combination with a main line track, of a switch point device comprising a channel with upwardly extending flanges, a pivot at the rear end thereof, and a tongue secured between said flanges and having its forward end bevelled and adapted to lie over the rail of the main line track when the device is in closed position, the sides of said tongue being spaced away from said flanges so that a groove is provided for the wheel flanges on each side of the tongue and the parts on the opposite sides of the center line of the device being similar so that it may be used on either side of the track.

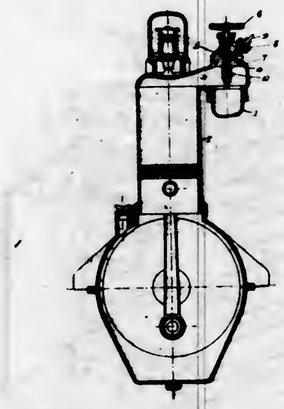
1,423,704. METHOD OF STERILIZING AIR. ALBERT WOLFF, Berlin, Germany. Filed Nov. 3, 1920. Serial No. 421,589. 1 Claim. (Cl. 183—117.)

The method of sterilizing air which consists in washing air on the counter-flow principle and in the finest possible state of distribution with a stable watery solution rich in ozone, renewing the percentage of ozone in the said washing liquid after use and using it anew for washing air.

1,423,705. INTERNAL-COMBUSTION AND HOT-AIR ENGINE. ALBERTO BAGNULO, Turin, Italy. Filed Sept. 23, 1919. Serial No. 325,670. 2 Claims. (Cl. 123—31.)

1. In a heavy oil, four stroke cycle, internal combustion engine, the combination with the engine cylinder; of a vaporising and combustion chamber arranged laterally of the cylinder and in constant communication therewith, and a fuel feeding device above the vaporising chamber and discharging vertically, said device comprising a fuel regulating valve and an automatic ball valve controlling

the fuel supply to the regulating valve, arranged to feed fuel to the vaporiser during the exhaust and suction



strokes of the engine when the pressure within the engine cylinder becomes less than the fuel pressure.

1,423,706. ANIMAL POKE. PHILIP BARNEY, Dollard, Manitoba, Canada. Filed Mar. 8, 1920. Serial No. 364,106. 4 Claims. (Cl. 119—142.)



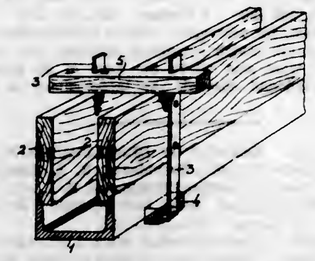
1. In an animal poke, the combination with a neck attaching part and a pair of upwardly extending diverging prongs carried by the neck part, of a pair of forwardly positioned members attached to the neck part and adapted to span the forehead of the animal and a nose part connected to the latter members and terminating in a piercing hooked end.

1,423,707. SOUND BOX. HENRY BERMAN, Ossining, N. Y., assignor of one-half to Emil Erik, Ossining, N. Y. Filed July 2, 1921. Serial No. 482,121. 4 Claims. (Cl. 274—35.)



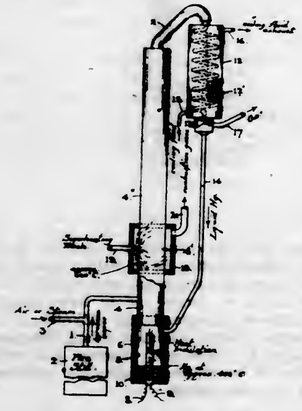
1. In combination in a phonograph, a reproducer having a metallic diaphragm, a flange integral with said diaphragm, and a wire enclosed by said flange, said wire having outwardly bent ends.

1,423,708. MOLD FOR CONCRETE BEAMS. SIGURD BRUUN, Fredericksberg, Denmark. Filed Mar. 23, 1921. Serial No. 455,515. 1 Claim. (Cl. 25—121.)



Mold for molding concrete beams of an ⊥-shaped section consisting of a U-shaped section iron, serving as mold for the head of the concrete beam to be molded, boards, forming the sides of the mold, adapted to be fitted on the edges of the flanges of said section iron, and means for holding the said members of the mold together and in a proper relative position to each other.

1,423,709. PROCESS FOR PRODUCING GASOLINE AND THE LIKE. JOHN COLLINS CLANCY, Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed July 31, 1919. Serial No. 314,434. 15 Claims. (Cl. 196—26.)



1. The process of cracking hydrocarbons, which comprises subjecting a hydrocarbon oil, while in vaporous condition, to the catalytic action of mercury vapor.

1,423,710. PROCESS OF DESULPHURIZING OIL. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed July 8, 1920. Serial No. 394,818. 19 Claims. (Cl. 196—26.)

1. The process of purifying mineral oil, which comprises, treating a mass of said oil with liquid anhydrous ammonia to cause the sulfur present in said oil to combine with said ammonia to form an ammonia-sulfur compound and separating said compound from the oil.

10. In a process of purifying mineral oil to step which comprises reacting upon said oil with ammonia in the presence of a catalyst to cause the sulfur present in the oil to combine with the ammonia.

1,423,711. PROCESS FOR OBTAINING SULPHUR COMPOUNDS FROM MINERAL OILS AND THE LIKE. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed July 14, 1920. Serial No. 396,220. 16 Claims. (Cl. 23—13.)

1. A process for recovering sulphur from sulphur bearing mineral oil, which comprises effecting the removal of sulphur from said oil in the form of an ammonia-sulphur compound through the intermediacy of liquid ammonia.

1,423,712. METHOD OF DESULPHURIZING OIL. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed July 17, 1920. Serial No. 397,056. 8 Claims. (Cl. 196—26.)

1. A process of desulphurizing mineral oil, which comprises treating a heated mass of said oil with ammonia vapor and steam.

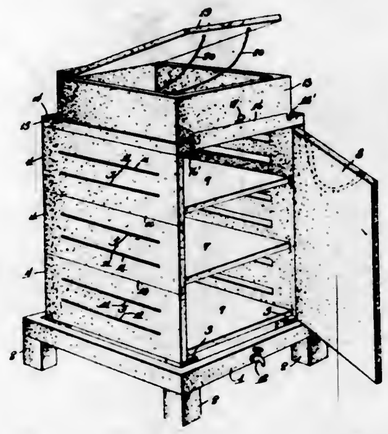
1,423,713. DETACHABLE BIT FOR DRILLS. HILTON HENRY DES ROCHES, Butte, Mont., assignor of one-half to Michael J. Scott, Butte, Mont. Filed June 6, 1920. Serial No. 386,690. 12 Claims. (Cl. 255—64.)



1. A drill or drill bit comprising a body or shank and a detachable cutting portion or bit fitting closely the end of said shank across the transverse end surface, the meeting surfaces being so formed as to have tongue and tongue and groove engagement at different transverse angles preventing relative lateral or rotary movement and causing a tight fit under end pressure and releasable locking means for preventing longitudinal movement of the bit away from the shank.

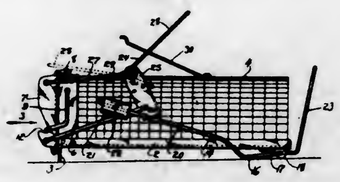
1,423,714. MILK OR CREAM CABINET. WILLIAM P. FRY, Marble Falls, Tex. Filed Oct. 25, 1920. Serial No. 419,404. 1 Claim. (Cl. 45—134.)

A cooling cabinet of the character described comprising a supporting basin, a series of superposed compartments mounted upon each other, the upper marginal edge of each compartment being provided with a beveled edge, the lower marginal edge of each compartment having a beveled flange adapted to fit the beveled edge of the adjacent compartment, the said walls of each compartment being equipped with angular slots extending downwardly from the inside walls of the compartment, the inner terminals of the said angular slot being considerably wider than the outer terminals which open on the outer surfaces of the said walls whereby air may pass freely into the said compartment but water flowing downwardly over the surface of the walls will be excluded from the said compartment, and a reservoir mounted upon the top of the uppermost compartment and provided with a trough around its side, the front flange of the trough being higher than the other



flanges thereof whereby water will flow only over the side and rear flanges and be permitted to flow down the side and rear walls of the said compartment.

1,423,715. ANIMAL TRAP. JOHN A. HEDBERG, Denver, Colo., assignor to The South Side Manufacturing Company, Denver, Colo., a Firm composed of Elmo E. Ridgley and John A. Hedberg. Filed Aug. 6, 1921. Serial No. 490,297. 8 Claims. (Cl. 43—61.)

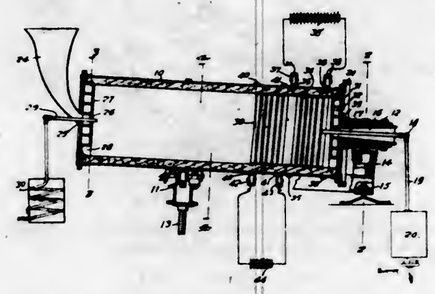


8. An animal trap comprising a lever, a tiltable platform supported at one end on an arm of the lever, a counterpoise on the other arm of the lever, a cage above the platform, having an entrance, a gate adapted to close said entrance, and mechanism to hold the gate in an open position and to allow of closing movement of the same, including a rocker-lever connected with the gate and composed of foldably connected members, a catch loosely engaging with an arm of the rocker lever, and a trigger on the supporting lever, engaging with the catch.

1,423,716. PROCESS OF DISTILLING SHALE. EDWARD E. HEDGES, New York, N. Y. Filed June 13, 1921, Serial No. 477,293. Renewed Apr. 8, 1922. Serial No. 550,795. 6 Claims. (Cl. 196—21.)

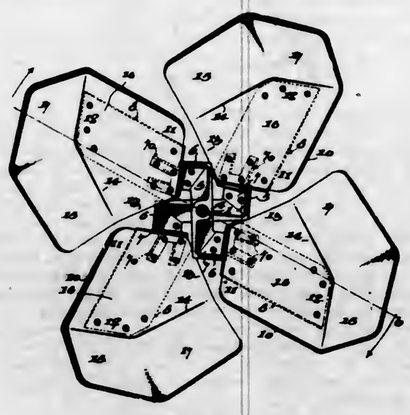
1. The process of distilling oil bearing shale, consisting in introducing raw shale into one end of an elongated retort, moving the shale along the retort under constant agitation, maintaining heat within said retort varying from a temperature to drive off the most volatile ingredients at the end of introduction to a temperature to decompose water in the presence of carbon at the opposite

end, conducting the released gases backwardly through progressively cooler areas, introducing steam into contact with the heated fixing carbon residuum at the hotter



end, commingling the gases released by decomposition with the released volatile gases, and discharging the spent shale residuum from said hotter end.

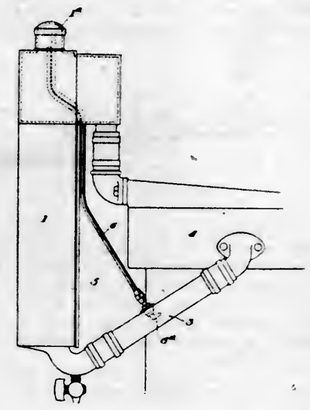
1,423,717. CURRENT MOTOR. ELIAS STANLEY HICKS, Yakima, Wash. Filed Mar. 29, 1919. Serial No. 285,970. Renewed Feb. 11, 1922. Serial No. 535,946. 5 Claims. (Cl. 170—170.)



1. A current motor comprising a shaft adapted to be projected in the direction of the current, a pair of paddles transversely mounted with respect to the shaft, a pair of supporting spokes or members fixedly attached to and projected radially from the shaft, the outer end of each supporting spoke including a bearing face disposed at an obtuse angle in a direction transverse to the shaft to the flow of the current, one of the aforesaid paddles being attached to each of the said bearing faces, the bearing face for one paddle being inclined at right angles in the same direction to the bearing face for the other paddle.

1,423,718. INTERNAL-COMBUSTION ENGINE. NORMAN ISACHSON, Albion, Idaho. Filed June 1, 1921. Serial No. 474,087. 3 Claims. (Cl. 123—175.)

3. In combination with an internal combustion engine and its radiator having connecting flow and return pipes, said radiator having a water overflow pipe, a steam pipe having one end connected with the interior of the radiator above the upper end of the overflow pipe, and its



other end connected to inject steam into the pipe which conveys water from the radiator to the engine.

1,423,719. STABLE FOAM FOR PREVENTING THE EVAPORATION OF STORED LIQUIDS. JAMES M. JENNINGS, Elizabeth, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Nov. 22, 1920. Serial No. 425,848. 9 Claims. (Cl. 23—11.)

1. A stable foam for preventing evaporation of volatile constituents of a liquid having as its base an aqueous solution containing 25% of glue, 10% of glycerine, 2% of ferrous sulfate, and a minute proportion of a preservative.

1,423,720. FOAM COVERING FOR PREVENTING THE EVAPORATION OF STORED LIQUIDS. JAMES M. JENNINGS, Elizabeth, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed May 24, 1921. Serial No. 472,297. 12 Claims. (Cl. 23—11.)

9. A substantially permanent fluent foam having as its continuous phase a liquid comprising less than 15% of water, glycerine and a body-forming material.

1,423,721. FOAM COVERING FOR PREVENTING THE EVAPORATION OF STORED LIQUIDS. JAMES M. JENNINGS, Elizabeth, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Oct. 26, 1921. Serial No. 510,627. 13 Claims. (Cl. 23—11.)

1. A liquid for producing stable foams comprising from 40 to 81% of glucose, from 6 to 12% of water, from 5 to 10% of glue and a small proportion of a setting agent.

1,423,722. SCREW DRIVER. JAMES E. MCCAFFERTY, Newark, N. J. Filed Dec. 30, 1920. Serial No. 434,009. 1 Claim. (Cl. 145—76.)

A screw driver comprising a blade, a handle associated with said blade so as to be capable of rotary and longitudinal movement relatively thereto, a positive clutch member fixed to said blade, a positive clutch member fixed to said handle, said clutch members be-

ing arranged to make a positive clutch connection with each other as they are made to engage each other by the exertion of a longitudinal thrust upon the handle, resilient means for holding said ratchet members out of operative relation, means to retain the handle and blade operatively associated, said last named means being operable at will to permit disengagement of the clutch mem-



bers by the influence of said resilient means or to lock the clutch members in engagement with each other against the action of said resilient means and comprising a cap rotatable on the handle and the blade and longitudinally slidable on the handle and having a bayonet slot, and a laterally projecting pin fixed to the handle and engaging in said slot, said cap engaging the clutch member of the blade.

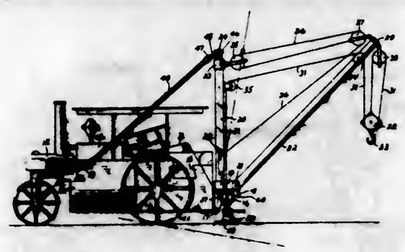
1,423,723. ADJUSTABLE WRENCH. WILLIAM ALEXANDER MARTIN, Commercial Cross, Prince Edward Island, Canada. Filed Dec. 10, 1921. Serial No. 521,416. 3 Claims. (Cl. 81—139.)



1. An adjustable wrench comprising a shank, formed with a shoulder provided with a recess, a serrated member slidably mounted in the shank, and formed with a pin engaging the recess, a handle pivotally attached to one end of the shank, and to the serrated member, a jaw formed integral with the opposite end of the shank, an adjustable jaw slidably mounted on the shank, an arm on the adjustable jaw extending along the serrated member, a pawl pivotally mounted on the arm, and formed with a lip on one side of its fulcrum, and a wedge point on the opposite side, a slotted arm carried by the pawl engaging the shank, and serrated member, and resilient means on the arm designed to force the wedge pointed pawl in engagement with the serrations.

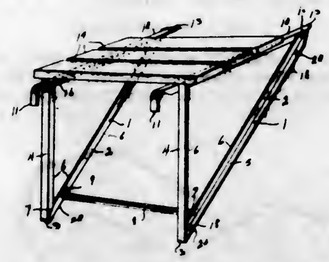
1,423,724. DERRICK ATTACHMENT FOR ROAD ROLLERS. JOSEPH MASCETTI, Torrington, Conn., assignor to Mascetti & Holley, Torrington, Conn., a Copartnership consisting of Joseph Mascetti and Irving B. Holley. Filed Oct. 27, 1920. Serial No. 419,860. 14 Claims. (Cl. 212—59.)

1. In a vehicle-derrick the combination of a mast, a mast bearing connected to the vehicle, stiff legs connected to said mast and extending therefrom to said vehicle at points spaced apart, connections at the vehicle and



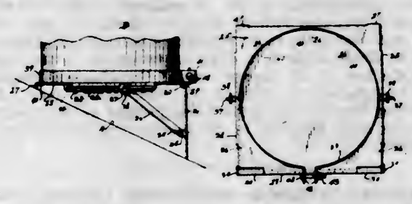
of the stiff legs, and means for independently adjusting and holding the ends in adjusted position.

1,423,725. LADDER PLATFORM AND ROOF JACK. CARL J. MOHR and URBAN J. MOHR, Dayton, Ohio. Filed Nov. 1, 1920. Serial No. 421,021. 3 Claims. (Cl. 304—34.)



1. As an article of manufacture, a ladder platform and roof jack comprising angle bars adapted to assume substantially horizontal positions with their lateral flanges facing toward each other, certain corresponding ends of the bars having means to engage the rung of a ladder, angle braces composed of angle bars and having their corresponding ends secured to the vertical flanges of the horizontal angle bars, said angle braces extending downwardly and having their lateral flanges extending outwardly in opposite directions, and a transverse brace connecting the angle braces, spacing them substantially equal to the distance between the side rails of a ladder, whereby the outward lateral flanges of certain arms of the angle braces may overlie and engage the side rails of the ladder.

1,423,726. PAINT-BUCKET HOLDER. CARL J. MOHR and URBAN J. MOHR, Dayton, Ohio. Filed Sept. 10, 1921. Serial No. 499,665. 3 Claims. (Cl. 248—41.)



1. A device of the character described comprising a base plate provided with supporting legs, means for supporting, a receptacle upon the base plate consisting of a contractible band provided with clamping means for

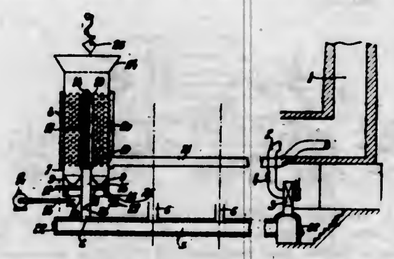
effecting contraction about a receptacle placed within the confines of the band, and connecting means between the band and the base plate, said connecting means being at that portion of the band most remote from the clamping means whereby to permit the contraction and expansion.

1,423,727. DANGER SIGNAL. WILLIAM F. MORAN, Frederick, Md. Filed Feb. 6, 1922. Serial No. 534,499. 3 Claims. (Cl. 116—116.)



3. In combination with the apparatus described in claim 2, a vertical slidable plate member mounted on the casing and adjustable to extend partially over and regulate the size of the wind opening.

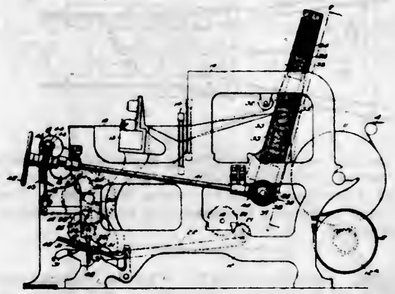
1,423,728. MEANS FOR CONTINUOUS PREDRYING OF FUEL. OTTO NORDSTRÖM, Matfors, and ARNE MÖRCK, Sundsvall, Sweden. Filed Nov. 10, 1920. Serial No. 423,146. 2 Claims. (Cl. 34—24.)



1. A fuel drying apparatus including a tower having a perforated wall, a tower-shaped trellis-work centrally arranged in said tower, means for introducing a current of hot gases at the bottom of said trellis-work, means for supplying wet fuel at the top of said tower, a rotary conical bottom in said tower, spirally arranged ribs on the upper surface of said conical bottom to cut away the lowermost layer of the mass dried and feed same out from the tower, and a gas collecting chamber surrounding the perforated tower.

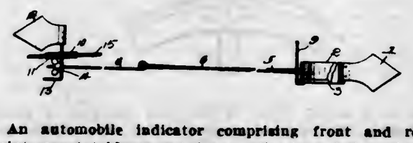
1,423,729. WARP TAKE-UP AND TENSIONING MECHANISM FOR LOOMS. SEWALL K. OLIVER, Columbia, S. C. Filed Mar. 14, 1921. Serial No. 451,977. 16 Claims. (Cl. 139—81.)

2. In a slack take up device for looms, the combination with the warp delivering and shed forming mechanisms, of normally inoperative means for taking up and tensioning the slack warp threads intermediate the warp delivering and shed forming mechanisms, and connections for positively actuating said take up and tensioning means,



said actuating connections being manually operable and independent of the warp delivering mechanism, whereby the slack warp threads may be placed under a tension independently of the warp delivering mechanism.

1,423,730. ACCESSORY FOR AUTOMOBILES. GEORGE D. ORR, Cincinnati, Ohio. Filed Feb. 16, 1921. Serial No. 445,554. 1 Claim. (Cl. 116—47.)



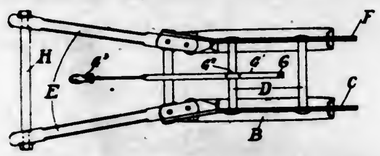
An automobile indicator comprising front and rear pointers rotatably mounted upon the top of the vehicle, the front pointer being mounted upon a wire extending down through the top and bent forwardly to form an operating handle, said wire having laterally extending ears to which are attached rearwardly extending rods, said rods being connected to the rear pointer by means of crossed wires, whereby the two pointers are caused to move in unison.

1,423,731. MOTOR VEHICLE. ALDEN E. OSBORN, New York, N. Y. Filed Feb. 21, 1921. Serial No. 446,917. 6 Claims. (Cl. 180—26.)



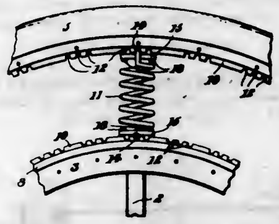
1. In a motor vehicle, the combination of a traction wheel, a support for said wheel about which said wheel can rotate, an axle on which said support is pivotally mounted, a propelling motor, means for transmitting the rotation of said motor to said traction wheel, means for supporting said motor connecting with said wheel support, and means for steadying said motor having a pivotal connection with the supporting means thereof above said traction wheel and with the pivot's axis substantially in line with the axis of said support's pivotal mounting.

1,423,732. ICE CONVEYER. LELAND F. PIXLEY, Afton, N. Y. Filed Sept. 7, 1920. Serial No. 408,768. 6 Claims. (Cl. 280—23.)



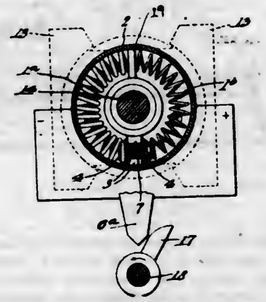
1. An ice conveyer comprising a plurality of runners each having a relatively wide base, and a longitudinal rib having a sharpened edge to receive and support a cake of ice and to prevent the same from shifting laterally of the conveyer.

1,423,733. SPRING WHEEL. WLADYSLAW PIERNIKOWSKI and STANISLAW GRUDZINSKI, Philadelphia, Pa. Filed Mar. 8, 1922. Serial No. 542,035. 4 Claims. (Cl. 152—8.)



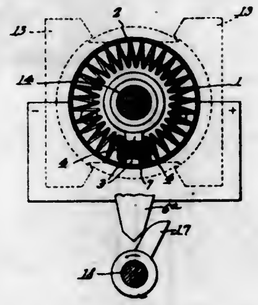
4. In a spring wheel of the type described, a spoke supported felly, a band secured to the felly, a rim surrounding the felly and spaced therefrom, flexible side sheets extending between the felly and rim, opposed circumferentially extending ribs formed on the felly band and rim, said ribs having spaced sets of transverse grooves formed therein, coil springs interposed between the felly band and rim and each carrying at opposite ends an angle arm positioned in an adjacent groove and a clamping block having a groove formed in the inner face thereof receiving the adjacent spring angle arm and anchored to the adjacent rib.

1,423,734. OSCILLATOR FOR MAGNETOS. HARLIE O. PUTT, Elkhart, Ind. Filed Dec. 9, 1919. Serial No. 343,542. 6 Claims. (Cl. 123—149.)



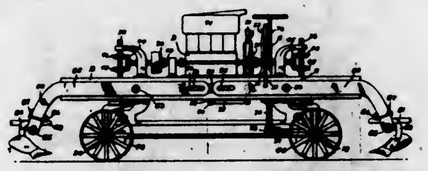
1. In a device of the class described, the combination of an annular housing, resilient means mounted in the housing, a disc for an oscillator, said disc having a stud in operative engagement with the spring means, and a slotted stop through which the aforesaid stud is freely movable.

1,423,735. OSCILLATOR FOR MAGNETOS. HARLIE O. PUTT, Elkhart, Ind. Original application filed Dec. 9, 1919, Serial No. 343,542. Divided and this application filed Feb. 20, 1922. Serial No. 538,008. 1 Claim. (Cl. 123—149.)



An oscillating mechanism for a magneto or other electric current generator, the mechanism comprising a pair of oscillating members, a coiled spring connected at its ends to said members, an arm operatively connected with the magneto shaft and adapted to move either member from its normal position against the tension of said spring, whereby the actuated member will impart an accelerated return movement to said arm under the action of the tensioned spring, and means for holding either member against movement during the operation of the other member.

1,423,736. TRACTOR AND PLOWING ATTACHMENT THEREFOR. PHILIP ADAM REINHOLD, Akron, Ohio. Filed May 21, 1920. Serial No. 383,223. 4 Claims. (Cl. 180—50.)

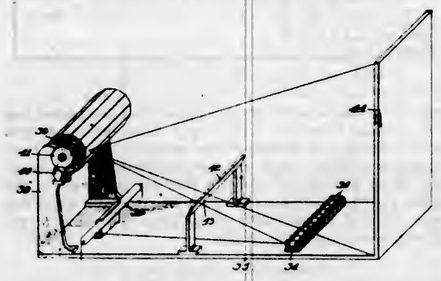


1. A tractor comprising a longitudinally extending frame, axle, housings carried by the frame adjacent to the terminals thereof, and arranged for swinging movement, drive axles rotatably mounted in said housings, vertically disposed rotatable and slidable counter shafts carried by the frame and arranged on opposite sides of the power plant, means operatively connecting the lower terminal of the counter shaft with the drive axle, bevelled gear wheels carried by the terminals of the drive shaft of the power plant, pairs of spaced bevelled gear wheels carried by the counter shaft, and means for simultaneously raising and lowering said counter shaft for bringing one of the pairs of gear wheels on said counter shaft in engagement with the bevelled gears on said drive shaft of the power plant.

1,423,737. ART OF TRANSMITTING PICTURES AND THE LIKE. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Sept. 10, 1919. Serial No. 322,815. 11 Claims. (Cl. 178—6.)

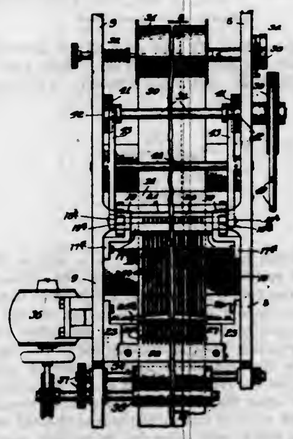
11. In combination, a transmitting device comprising a plurality of light responsive devices capable of producing

energy impulses, means for projecting rays of light to form a picture, a movable mirror adapted to receive rays of light from said picture, means for moving said mirror to successively reflect light rays from definite limited areas of the picture upon the light responsive devices, and an opaque screen interposed between the prism and the light responsive devices, said screen being provided with a slot adapted to limit the area reflected upon said devices, means for separately transmitting the impulses from the individual light responsive devices, and receiving means, said receiving means comprising a screen, a plurality of electro-magnets, mirrors mounted upon the armatures of said electro-magnets, a movable mirror adapted to receive



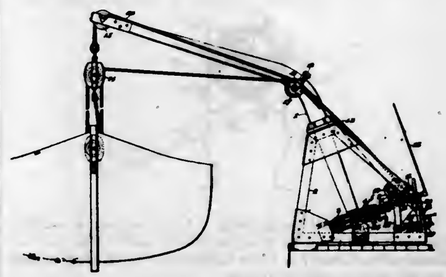
light rays reflected from said mirrors and to reflect said light rays upon definite areas of said screen in succession, an opaque screen mounted between the electro-magnet mirrors and the movable mirror, said screen being provided with a slot and normally obstructing the passage of said rays, means for projecting light rays against the electro-magnet mirrors, and means for separately receiving the energy impulses transmitted from the definite light responsive device of the transmitting device, and for transmitting said impulses to the individual electro-magnets of the receiving means to thereby actuate the electro-magnet mirrors to project light rays through the slot in the screen against the movable mirror.

1,423,738. SHEET-PERFORATING MACHINE. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Dec. 6, 1920. Serial No. 428,539. 9 Claims. (Cl. 164—113.)



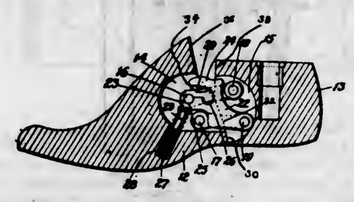
1. In a sheet-perforating machine, the combination with reciprocating punches, of actuating mechanism therefor including reciprocating means engaging the punches to positively advance and retract them, a lever fulcrumed between its ends and operatively connected at one end with said means, and a drive-shaft carrying an eccentric having an arm with which the opposite lever-end is pivotally connected for reciprocating said means.

1,423,739. AUTOMATICALLY-BRAKED DAVIT. ANE P. SCHAT, The Hague, Netherlands. Filed Feb. 1, 1921. Serial No. 441,618. 36 Claims. (Cl. 1—22.)



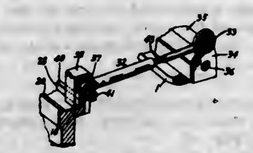
14. In a device of the character described, a davit adapted to swing outboard under the influence of its load; braking mechanism for the davit including a bellcrank lever for applying the brakes; a flexible member adapted at one end to support the load suspended from the davit, and operatively connected at its other end to said bellcrank lever, whereby to apply the brakes to the davit in proportion to the weight of the load; a loaded lever also connected with said bellcrank lever to additionally apply the brakes to the davit; and manually operated means for counteracting the influence of the load and of the loaded lever upon the braking mechanism.

1,423,740. LAST. JOHN CARL SCHELTER, Rochester, N. Y., assignor to Fits-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Dec. 21, 1918. Serial No. 267,757. 7 Claims. (Cl. 12—136.)



1. A hinge-last having a hinge pin and a member engaging therewith for positively locking the last in extended condition and impositively locking it in collapsed position.

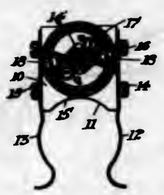
1,423,741. CALCULATING MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed June 11, 1921. Serial No. 476,767. 11 Claims. (Cl. 235—59.)



1. In a computing machine, the combination of a carriage, a totaliser truck, means for connecting the truck to

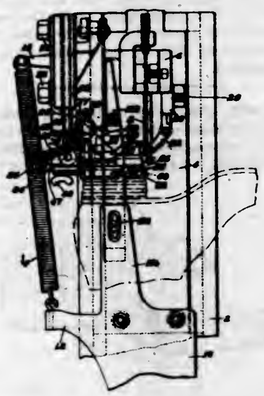
move with the carriage but enabling the truck to have a limited movement relatively to the carriage transversely of the line of travel of the truck, bearing rollers which guide the truck, and non-elastic links intermediate said carriage and truck.

1,423,742. HEATER UNIT. HARRY A. SILVERMAN, New York, N. Y. Filed May 5, 1921. Serial No. 467,059. 7 Claims. (Cl. 219—63.)



1. A heater unit comprising a block having a surface adapted to conform to a surface of a body to be heated, means for securing the block to the body to be heated, and a device for heating the block.

1,423,743. HEEL-BREASTING MACHINE. RALPH C. SIMMONS, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 20, 1919. Serial No. 305,583. 15 Claims. (Cl. 12—47.)

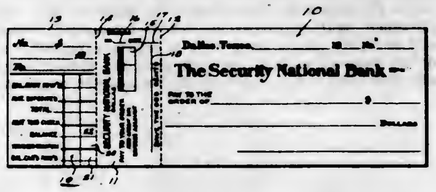


1. In a machine of the class described, the combination of a reciprocating knife, a shoe support, a tread plate, and means arranged to engage the central portion only of the breast end of the toplift on each side of the longitudinal median line of a heel located against the tread plate.

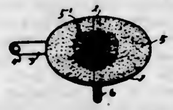
14. In a machine of the class described, a knife stop for engaging the shoe shank comprising a stem arranged for vertical adjustment, a foot pivoted to the stem, and a screw threaded through the stem and having its end arranged to engage a surface of the foot at one side of its pivot adjustment of the screw causing angular movement of said foot in the longitudinal median plane of the shoe.

1,423,744. BANK CHECK AND STUB. DON L. STERLING, Dallas, Tex. Filed May 28, 1921. Serial No. 473,559. 3 Claims. (Cl. 283—58.)

1. A sheet of paper having spaced transverse lines upon which the same is adapted to be torn, said lines forming a check, a saving coupon, and a stub; said check being provided with the usual check form; said stub having data provided thereon including a line designated balance brought forward, a line designated amount deposited, a line beneath the last named line designated total, a line beneath the last named line designated amount of this check, a line beneath the last named line designated balance, a line beneath the last named line designated savings coupon, and a line beneath the last named line designated balance carried forward; said coupon being provided with data indicating in substance the name of the same bank occurring upon the check, a space designated for the reception of an amount of money, a line for the name of the payer and instructions to deposit the amount appearing upon the stub to the credit of the savings account of the depositor who signs the coupon.



1,423,745. POWDER PUFF. MABEL W. WILLSON and ANDREW E. WILLSON, Grand Rapids, Mich. Filed Oct. 18, 1921. Serial No. 508,554. 5 Claims. (Cl. 132—78.5.)



1. In a powder puff, two pieces of fabric each having one plain surface and one fluffy surface, each of said pieces of fabric centrally folded with the plain surfaces outward and the folded edges stitched together in such a manner that the puff may be folded with both pairs of fluffy surfaces contacting and protected, or may be opened so one pair of said surfaces may be exposed and made to form a fluffy surface for the storage and application of powder.

1,423,746. LOCKING MEANS FOR NUTS, BOLTS, AND THE LIKE. HAROLD BATCHELOR, Jersey City, N. J. Filed Apr. 8, 1919. Serial No. 288,554. 4 Claims. (Cl. 151—25.)



1. In a device for locking a nut to a bolt or the like, comprising a resilient angular element, one corner of the nut being formed with a groove in substantial parallelism with the axis thereof providing a seat for one leg of said element, opposed edges of said groove extending over said leg so as to retain it therein, the free end of the leg having an outwardly directed offset portion coacting with said edges to control the free movement of the leg relatively to said seat, the other leg of the angular element reaching the bolt slantingly so as to engage the thread thereof on either side, the free end of said other leg biting into said thread when in advance of the seat, and admitting of being brought past a radial position by excessive pressure so as to oppose rotation in the reverse direction.

1,423,747. METHOD OF MAKING PRESSED-STEEL VEHICLE WHEELS. DAVID H. BELLAMORE, New York, N. Y., and THOMAS I. S. BOAK, East Orange, N. J., assignors, by direct and mesne assignments, to Steel Wheel Corporation, a Corporation of New York. Filed Sept. 15, 1919. Serial No. 323,836. 12 Claims. (Cl. 29—150.)



1. The method of making a disc wheel which consists in manipulating blanks of normalized alloy steel between dies to impart the desired shape thereto, thereafter hardening and tempering the resulting parts and assembling them to form the wheel.

1,423,748. SECTIONAL INNER STRIP FOR AUTOMOBILE TIRES. WOLF BERMAN, New York, N. Y. Filed Jan. 19, 1922. Serial No. 530,462. 2 Claims. (Cl. 152—5.)



1. A combination of a containing-strip which fits into automobile tires in connection with two supporting-strips, one cushion-strip and one plug-strip, all of which fit within the containing-strip and are of special designs, each part containing air-channels which furnish yieldability, and all parts fitting snugly and securely within one another, and functioning as one unit.

1,423,749. GARMENT-SUPPORTING DEVICE. ELIZABETH BOWLER, Westport, S. Dak. Filed Apr. 19, 1921. Serial No. 462,511. 2 Claims. (Cl. 241—12.)



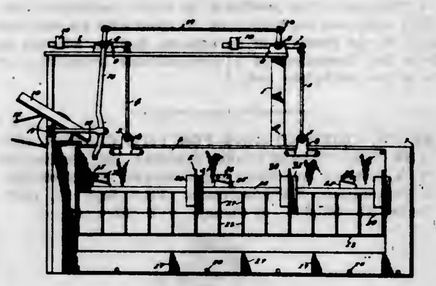
1. A device of the class described, including a pair of side clasps having approximately horisontal loops to receive shoulder straps of a garment and provided with depending portions having slots, inclined relative to said loops, a member provided with means for securing it to the clothing of the wearer and flexible means extending from the said member to the said clasps and secured in the inclined slots thereof.

1,423,750. PILOT-LIGHT BURNER. JULIUS BROMBACHER, Los Angeles, Calif. Filed Nov. 19, 1921. Serial No. 516,460. 5 Claims. (Cl. 158—115.)



5. A pilot light burner comprising a gas supply pipe having an internal shoulder, and a square bar loosely resting on the shoulder of, and extending beyond the end of, said pipe.

1,423,751. ORE-SEPARATING DEVICE. WILLIAM SHERMAN BROWN, Wallace, Idaho. Filed Apr. 17, 1920. Serial No. 374,689. 2 Claims. (Cl. 83—80.)

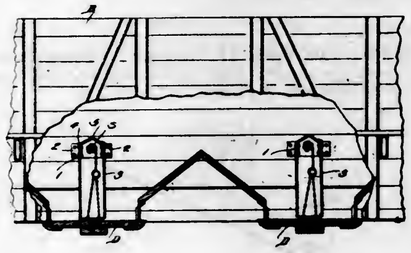


1. A sizing apparatus for ore comprising a tank having a plurality of partitions defining compartments, a basket within the tank and having upper and lower series of parallel spaced transversely extending slats and a screen held between the slats, pairs of cups attached to opposite sides of certain of said slats, one cup of each pair having its lower end open and spaced above the screen, the other cup having its lower end open and in contact with the screen, said slats notched to provide communication between the cups of each pair, and vertically adjustable gates having openings adapted for registration with said notches, said cups extending above the upper edge of said slats and constituting guides for said gates.

1,423,752. WINDING SHAFT AND CHAIN GUARD FOR DUMP CARS. OLIVER L. BURFORD and HUBERT DE BARDELEBEN, Ensley, Ala. Filed June 16, 1921. Serial No. 478,119. 1 Claim. (Cl. 105—292.)

The combination with a dump car having bottom closures movable vertically into and out of a closed position, a winding shaft extending through the car over the closures and chains wound upon the shaft and extending downwardly therefrom and connected with the closures; of an inverted channel-shaped guard extending through the car and extending above and upon opposite sides of the shaft, said guard being connected at its ends with the

walls of the car body, depending hollow arms connected with the guard and extending downwardly therefrom and positioned about the depending portions of said chains,

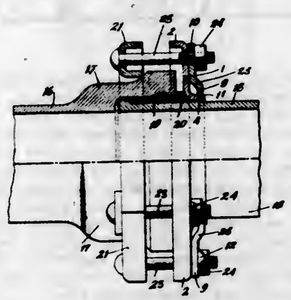


said channel-shaped guard being formed with inspection openings over said depending hollow arms, and hinged closures for said openings.

1,423,753. METHOD OF PRODUCING ACTIVE METHYLENE BODIES. CARNIS B. CARTER and ALBERT E. COXE, Pittsburgh, Pa., assignors, by mesne assignments, to S. Karpen & Bros., a Corporation of West Virginia. Filed Aug. 27, 1920. Serial No. 406,435. 11 Claims. (Cl. 23—24.)

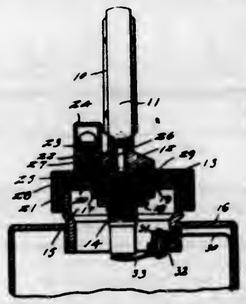
1. The method of producing an active methylene body which comprises reacting upon ethylene with an ozonized agent in the presence of an aqueous medium adapted to favor the formation of a preponderant proportion of the active methylene body.

1,423,754. DIVIDED RING FOR PIPE CLAMPS AND THE LIKE. JAMES CLARK, Bradford, Pa., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa., a Corporation of Pennsylvania. Filed Sept. 27, 1921. Serial No. 503,666. 5 Claims. (Cl. 285—142.)



1. A divided ring for pipe clamps and the like, comprising an annular plate member provided with bolt holes, said ring being formed in sections, the lines of separation between the ends of adjacent sections passing through bolt holes, said ring sections being provided adjacent to their inner edges with locking apertures and a bridge plate connecting said sections, each provided with means for connecting it with the plate member on opposite sides of the line of separation between adjacent sections and having its inner edge provided with locking fingers for engaging the locking apertures of the ring sections on opposite sides of said lines of separation.

1,423,755. ELECTRICALLY-LIGHTED MOTOR METER. CLARENCE HORTON CRAFT, Uniontown, Pa., assignor of one-third to Harmer D. Hutchinson, Uniontown, Pa., and one-third to John Q. Adams, Uniontown, Pa. Filed Aug. 25, 1921. Serial No. 495,188. 4 Claims. (Cl. 240—2.)



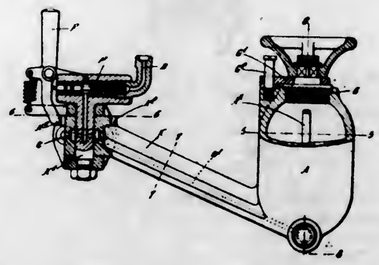
1. The combination with an automobile radiator, its closing cap, and a heat registering device disposed on and insulated from the cap, of an electrical lighting bulb above the cap to light the registering device, in electrical connection with the said registering device and with the cap, and an electrical contact member within the radiator engageable by a portion of the said heat registering device when the cap is in place on the radiator.

1,423,756. ELECTRIC HAIR CLIPPER. LEONCIO DAVID, Washington, D. C. Filed Feb. 20, 1922. Serial No. 538,013. 1 Claim. (Cl. 30—1.)



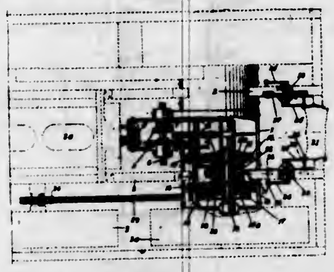
A hair clipper comprising a pair of juxtaposed blades secured together for relative longitudinal movement, one of said blades having inturned flanges, a drive shaft journaled in said flanges, a drive cam on said shaft, means on the other of said blades engaged by said cam, whereby said last mentioned blade is reciprocated when said shaft is rotated.

1,423,757. ORDNANCE. ARTHUR TREVOR DAWSON, Westminster, London, and JAMES HORNE, Barrow-in-Furness, England, assignors to Vickers Limited, Westminster, England. Original application filed Sept. 4, 1920, Serial No. 408,320. Divided and this application filed Oct. 25, 1921. Serial No. 510,391. 3 Claims. (Cl. 89—1.)



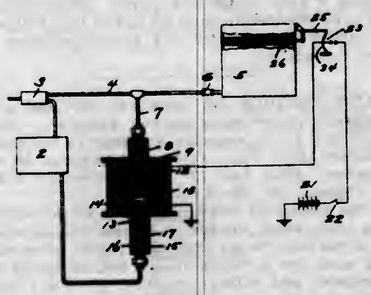
2. For use with ordnance, a device for spraying a substance into the bore of the gun, said device comprising in combination an arm pivoted to the rear part of the gun, a container for the said substance and an injector nozzle and a spraying nozzle all carried by said arm so as to be capable of being brought by movement of said arm from the inoperative or housed position in which they are out of the way of the breech mechanism, into the operative or spraying position with said spraying nozzle directed into the gun, means for locking the arm in either of its two positions and means for ensuring that the spraying device shall not be caused to operate until said arm occupies the position with the spraying nozzle directed into the gun.

1,423,758. DRIVING MECHANISM FOR TRACTORS. JOSEPH C. F. DICK, Stockton, Calif. Filed July 12, 1920. Serial No. 395,442. 6 Claims. (Cl. 180—17.)



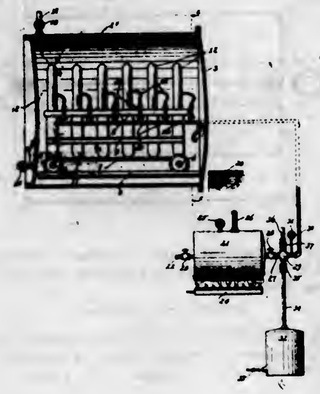
1. A driving mechanism for tractors comprising a drive shaft, drive wheels, an independent axle for each such wheel keyed thereto and parallel to the shaft, a faced member on the axle turned by the shaft in the opposite direction thereto, another faced member on the axle turned by said shaft in the same direction, thereas, both said members being turnable on the axle, friction discs on the axle on each of the faced members and adapted to bear thereagainst and held against turning on the axle, and means for causing either at a time of the faced members to be gripped between the corresponding discs.

1,423,759. APPARATUS FOR CONTROLLING THE FLOW OF WATER TO BOILERS. JOHN A. DOBLE, San Francisco, Calif., assignor to Doble Laboratories, San Francisco, Calif., a Corporation of California. Filed May 15, 1918. Serial No. 234,769. 3 Claims. (Cl. 103—97.)



1. An apparatus for controlling the temperature within a steam generator comprising means for introducing a liquid into the generator and a by-pass for the liquid, characterized by the fact that the by-pass is opened or closed solely by variations in the temperature of the steam whereby this temperature is kept within definite limits.

1,423,760. METHOD OF VULCANIZING PNEUMATIC TUBES. WALTER L. FAIRCHILD, New York, N. Y. Filed Sept. 3, 1920. Serial No. 408,017. 3 Claims. (Cl 18—53.)



1. The method of vulcanizing rubber tubes consisting in encasing them in suitable molds and subjecting the same to the heat of steam applied to them externally in a closed steam chest, and applying gaseous pressure to the tubes interiorly at the same time, and then connecting the interiors of the vulcanized tubes with a vacuum tank to free them from the molds.

1,423,761. MOLD FOR PNEUMATIC TUBES AND SIMILAR ARTICLES. WALTER L. FAIRCHILD, New York, N. Y. Filed Sept. 3, 1920. Serial No. 408,018. 8 Claims. (Cl. 18—38.)



1. A mold for pneumatic tubes comprising a plurality of members adapted to be fitted together so as to provide a tubular structure, one of said parts being provided with an aperture, a removable plate adapted to close said aperture, the edges of said aperture and plate being beveled to engage each other and provided with corresponding openings to receive a valve stem, and detachable means for maintaining the plate and aperture in engagement.

1,423,762. CLOTHESLINE SUPPORT. CHARLES F. FRANSEN, Chaska, Minn. Filed Aug. 1, 1921. Serial No. 488,840. 3 Claims. (Cl. 68—3.)

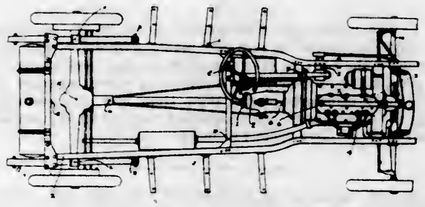
1. A clothes line support comprising laterally spaced line-supporting bars having means for attachment to supporting posts or the like and provided on their opposing faces with longitudinally spaced line guides, a line-tight-

ening device on one of said bars, two main lines attached to one of said bars and passed back and forth over the



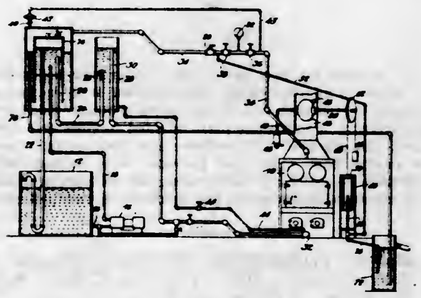
guides on the two bars, and a common tightening line attached to the inner ends of said main lines and to said tightening device.

1,423,763. IDENTIFICATION AND CODING SYSTEM. JOHN F. GELNAW, Cleveland, Ohio. Filed May 5, 1921. Serial No. 466,968. 9 Claims. (Cl. 40—2.)



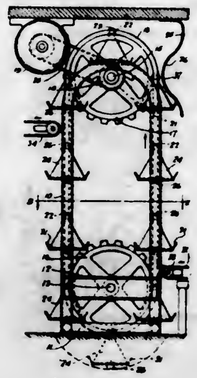
1. The herein described method of identifying articles, which consists in charting positions of identification upon said article, assigning a plurality of such positions individual to the article or class of articles, semi-permanently applying an identifying mark to the article in each of said positions, and making record thereof, substantially as set forth.

1,423,764. OIL-FIRED STEAM BOILER. BENJAMIN GREENFIELD, Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company. Filed Mar. 12, 1920. Serial No. 365,367. 12 Claims. (Cl. 158—36.)



1. A combustion regulator for oil fired boilers which comprises a closed feed tank for oil, means for admitting fluid under pressure to said tank, means governed by the steam pressure in said boiler for permitting the escape of fluid from said tank, and means governed by the fluid pressure existing in said feed tank for controlling the draft to said furnace.

1,423,765. LOADING AND UNLOADING APPARATUS. CHARLES B. HASTINGS, New York, N. Y. Filed Apr. 14, 1921. Serial No. 461,240. 3 Claims. (Cl. 198—154.)



2. A conveyor comprising a plurality of vertically movable buckets having transversely barred bottoms, endless means for supporting and moving said buckets, discharging and receiving platforms associated with the buckets for disposing objects upon and removing said objects from the buckets, and a shifting comb disposed intermediate the upper and lower ends of the upper run of the endless means for shifting the objects from the discharging to the receiving side of said buckets.

1,423,766. METHOD OF TREATING SLUDGE ACIDS. INGENUIN HECHENBLEIKNER and THOMAS C. OLIVER, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y., a Corporation of North Carolina. Filed Jan. 25, 1922. Serial No. 531,604. 20 Claims. (Cl. 23—1.)

10. The steps in the method of treating sludge acids or separated sludge acids which consist in heating and agitating a weak sludge acid thereby concentrating the same to an intermediate strength and in then heating the said partially concentrated acid without agitation at a higher temperature.

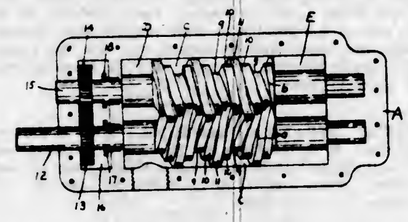
1,423,767. METHOD OF TREATING SLUDGE ACIDS. INGENUIN HECHENBLEIKNER and THOMAS C. OLIVER, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y., a Corporation of North Carolina. Filed Jan. 25, 1922. Serial No. 531,605. 13 Claims. (Cl. 23—1.)

1. The method of treating sludge acids or separated sludge acids which consists in heating and agitating a body of the acid thereby effecting a partial concentration of the same and in then heating a body of the partially concentrated acid without agitation effecting a further concentration thereof.

1,423,768. PUMP. WILLIAM S. HOLDAWAY, Salt Lake City, Utah. Filed Apr. 25, 1921. Serial No. 464,278. 2 Claims. (Cl. 103—44.)

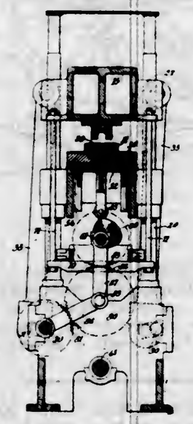
2. A pump comprising a casing having a one piece bottom and a three piece top and with its interior divided

to form a gear case on one end and two intersecting screw chambers in the other portion; parallel shafts mounted for rotation within said casing; screws having intermesh-



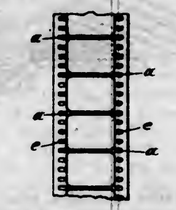
ing stepped threads on said shafts and rotatable therewith; an inlet and outlet chamber at the ends of said screws; and means for rotating said shafts synchronously.

1,423,769. PRESS. WILLIAM KLOCKE, New York, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of West Virginia. Filed May 25, 1920. Serial No. 384,224. 11 Claims. (Cl. 113—38.)



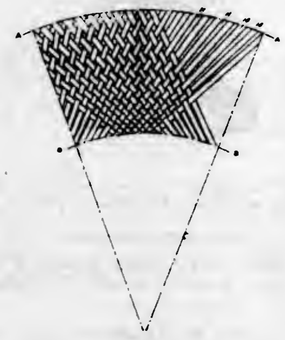
5. A press comprising a reciprocatory slide adapted to carry a blank holder or the like, a reciprocatory punch slide, and a cam adapted to actuate said blank holder slide, said cam being mounted to move with said punch slide, and means for rotating said cam during the movement of said punch slide.

1,423,770. CINEMATOGRAPHIC FILM. STANISLAUS KUCHARSKI, Charlottenburg, near Berlin, Germany, assignor to Richard A. Hansemann, Berlin, Germany. Filed Oct. 1, 1919. Serial No. 327,831. 3 Claims. (Cl. 88—19.5.)



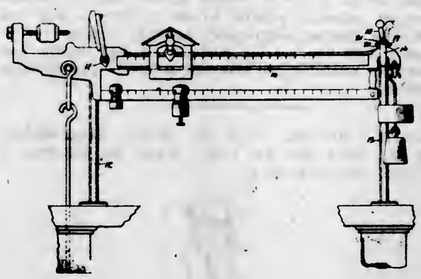
1. A film bearing a series of pictures provided with a number of holes near each edge for each picture one of which is larger than the others in a direction transverse to the length of the film but of the same dimensions in the longitudinal direction of the film.

1,423,771. PNEUMATIC-TIRE CASING. NELSON W. MCLEOD, New York, N. Y. Filed Jan. 15, 1920. Serial No. 351,712. 3 Claims. (Cl. 152—13.)



1. A pneumatic tire casing having a woven fabric strip extending lengthwise of the tread with the threads of the fabric diagonally crossing the center line of the tread and anchored at the beads, the weave of the fabric being sufficiently loose at the tread to permit the threads to come together and fill the space at the bead without material flattening or compacting.

1,423,772. AUTOMATIC LATCH FOR SCALE BEAMS. JOSEPH J. MAGRADY, Chicago, Ill. Filed Dec. 12, 1921. Serial No. 521,807. 4 Claims. (Cl. 265—55.)

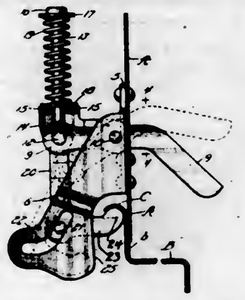


1. The combination with a scale beam, of a latch member supported adjacent thereto, having means engageable by the scale beam to automatically shift the latch member into effective position when the scale beam rises.

1,423,773. FASTENING DEVICE FOR AUTOMOBILE HOODS. FRED MATHEWS, Chicago, Ill. Filed Dec. 1, 1919. Serial No. 341,646. 3 Claims. (Cl. 292—113.)

1. The combination with a section of the hood of an automobile, and the body part thereof, of a handle having a fixed pivot connected to the inside of said section, a vertically reciprocal L-shaped latch, pivotally connected to the inner end of said handle, lugs projecting from the inner side of said section having slots extending at an angle to the direction of length of the vertical portion

of said latch, and pivotal members projecting from the angle of said latch that extend into said slots, and direct



the movement of said latch to lock with said body part in one position and unlock therefrom in another position.

1,423,774. VISE. JOHN J. MOORE, Batavia, N. Y. Filed Mar. 11, 1920. Serial No. 364,956. 10 Claims. (Cl. 81—41.)



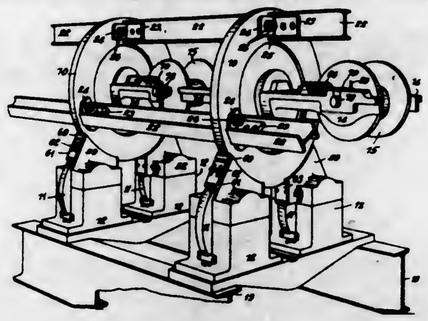
1. The combination with a vise having a bearing surface; of a saddle upon which the vise is mounted, said saddle having a pair of convex opposed bearing surfaces arranged angularly relative to one another, a base and said vise having counterpart bearing surfaces to cooperate with the bearing surfaces of said saddle, and means for retaining the vise and saddle in any adjusted position.

1,423,775. SPADE. EMIL W. MUNDT, Bernardsville, N. J. Filed May 24, 1920. Serial No. 383,786. 1 Claim. (Cl. 294—60.)



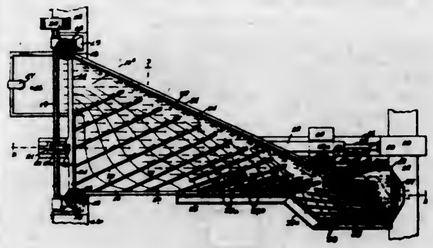
A spade, comprising the blade having its upper edge cut away at a point intermediate the side edges of the blade to form a recess, the remaining portions of the upper edge of the blade being curved and bent at right angles, and said bent portion again bent upon itself to define a curved, heel engaging reinforced upper edge for the blade, a pair of concave plates applied, one to each side of the blade with their concave sides directed toward each other and in registration with the recess, and a handle entering said recess and the space between said concave plates.

1,423,776. STRANDING MACHINE. MAX MORRISON, Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Aug. 2, 1921. Serial No. 489,322. 11 Claims. (Cl. 117—48.)



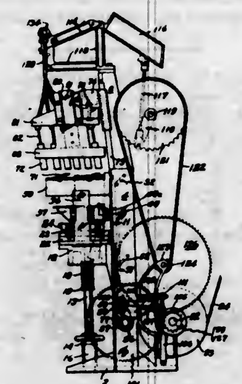
1. In a machine of the class described, a flyer including at least three cradle supporting discs joined to each other by discontinuous connecting members so as to permit the removal of one or more of the discs for replacement or repair without the necessity of dismantling the entire flyer.

1,423,777. CONCENTRATING TABLE AND METHOD. VICTOR F. NEWMAN and MERTON W. LOOMIS, Red Cliff, Colo. Filed Nov. 23, 1920. Serial No. 426,055. 36 Claims. (Cl. 83—88.)



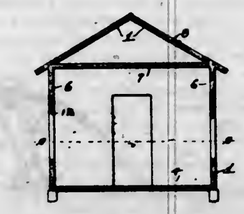
1. In a concentrating apparatus, means to stratify the material without wash water, and clarifying means by which the stratified material is received from the first means.

1,423,778. BOX-NAILING MACHINE. ELMER C. NORTHRUP, San Francisco, Calif. Filed Nov. 11, 1919. Serial No. 337,245. 10 Claims. (Cl. 4—15.)



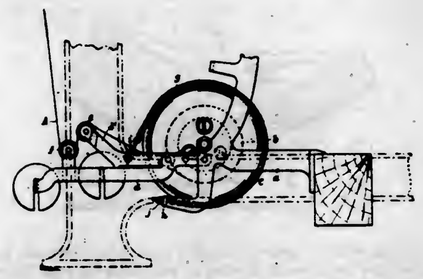
7. In a box nailing machine, a table, a pair of posts adjustably spaced on said table, a ledge slidably mounted on each post, means for vertically adjusting the ledge upon the post, means for supporting the box slidably mounted on said ledges, a lever pivoted on each ledge operatively engaging the supporting means thereon, means connecting said levers for unifying their operation, a spring connected to each supporting means for extending it into operative position, and automatically operated means for actuating said levers to retract said supporting means into inoperative positions.

1,423,779. CONCRETE BUILDING STRUCTURE. JAMES PARTEE, Santa Cruz, Calif. Filed Jan. 25, 1921. Serial No. 439,821. 1 Claim. (Cl. 72—1.)



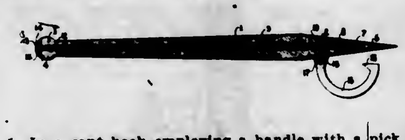
A concrete structure comprising a metallic frame work, reinforcing wires arranged in set formation so that its members are substantially parallel to the members of the frame work and a metallic reticulum stretched between adjacent members of the frame work allowing door and window openings to be cut into the same, concrete applied to said reticulum and embedding the reinforcing wires to form the walls, floor and roof of the structure, and door and window frames molded from concrete and secured in the openings provided therefor to receive suitable door and window casings.

1,423,780. FRICTION BAND FOR LET-OFF MECHANISM. CORNELIUS H. SLINGER, Hawthorne, N. J. Filed Oct. 2, 1920. Serial No. 414,319. 3 Claims. (Cl. 188—259.)



3. A friction band for a let-off mechanism of substantially the kind described consisting of a flexible helix of hard material having its coils each immovable longitudinally of the helix.

1,423,781. UNBREAKABLE CANT HOOK. JOHN WILLIAM STOLLE, Ashland, Me., assignor of one-third to Frank F. Stolle, Redding, Conn. Filed Oct. 10, 1921. Serial No. 506,906. 6 Claims. (Cl. 294—17.)



1. In a cant hook employing a handle with a pick and a pivoted hook, a reinforcing rod passed longitudinally through the handle and formed integral with the pick, said rod being held from movement longitudinally of the handle.

1,423,782. SHOE-BUTTONING DEVICE. JOSEPH SZIGETHY, Himlerville, Ky. Filed Apr. 15, 1922. Serial No. 552,954. 5 Claims. (Cl. 24—40.)

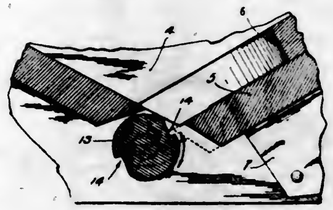


1. A button hook comprising a U-shaped frame, a bar arranged for swinging and sliding movement in said frame, and a compound hook member on said bar.

1,423,783. FEED ROLLER. PATRICK H. VAUGHN, Morris, Minn. Filed Dec. 20, 1919. Serial No. 346,326. 4 Claims. (Cl. 83—44.)

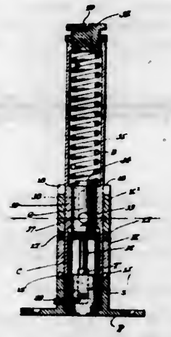
1. In a grain feeding device comprising a hopper having converging sides with an opening therebetween at their lower and adjacent ends, a feed roller having a smooth feeding surface interrupted by spaced pockets therein

comprising a radial side and a side extending substantially normal thereto rearwardly to the smooth surface, the ends of the hopper sides being beveled backwardly at an acute angle to their inside surface and the roller being disposed



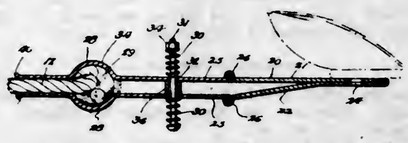
therebetween to leave a constant open space between the same and the smooth surface of the roller through which the material is fed which space is enlarged when the pockets come into alinement with the edges of the hopper sides.

1,423,784. HINGE CHECK. GEORGE VUILLE, Shelby, Ohio. Filed Mar. 2, 1921. Serial No. 449,024. 8 Claims. (Cl. 16—55.)



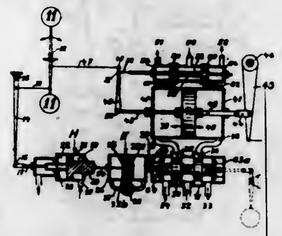
2. A hinge check comprising, a barrel, a rotatable cam and a reciprocating cam sustained on the barrel, a fluid container within the barrel, cylinders sustained within the container, ports and channels formed in the cylinders at and above the lower ends of the latter, pistons working within the cylinders, a plunger exteriorly of the container and operatively connected to the pistons, a spring for urging the plunger downwardly, and a pin carried by the plunger and operatively connected to the reciprocating cam in a manner to urge the cam downwardly with respect to the rotatable cam.

1,423,785. TRACTOR COUPLING. ADOLPH WILDE, Bellflower, Ill. Filed Apr. 1, 1922. Serial No. 548,779. 3 Claims. (Cl. 24—115.)



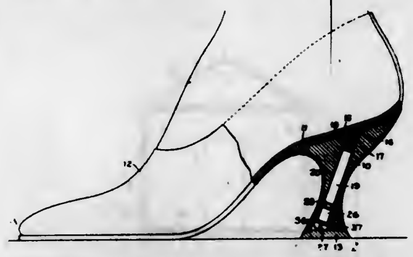
1. A plow rope coupling device for tractors comprising a bracket, a pair of arms horizontally hinged to said bracket and having their intermediate portions formed with sockets adapted for the reception of the knot formed on one end of the plow rope, said arms being provided with aligned openings, a bolt passed through said openings, coil springs mounted on said bolt on opposite sides of said arms and constituting a means to urge the arms together whereby to securely engage the knot on the rope, and a nut threaded on said bolt and constituting a means whereby to regulate the tension of said springs.

1,423,786. SERVO-MOTOR-CONTROLLING MECHANISM. HEINRICH ZOELLY and ANTON GAGG, Zurich, Switzerland. Filed Mar. 16, 1921. Serial No. 452,736. 6 Claims. (Cl. 114—126.)



1. A governing device for a servomotor adapted to regulate working conditions of a contrivance, comprising an auxiliary organ the position of which is dependent on the working conditions to be regulated, a controlling member for the servomotor, means operatively connecting said controlling member to said auxiliary organ and adapted to effect a displacement of said controlling member out of its mid position as soon as the velocity with which the auxiliary organ is moved in one or the other direction exceeds a certain limit and being further adapted to keep said controlling member out of its mid position as long as said velocity is exceeded, and means adapted to return said controlling member to its mid position when said velocity limit is no longer exceeded.

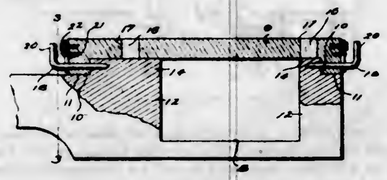
1,423,787. HEEL FASTENER. LESTER CRAF, Brooklyn, N. Y. Filed Dec. 22, 1920. Serial No. 432,527. 1 Claim. (Cl. 36—42.)



Means for detachably securing heels to footwear, said means comprising a plate adapted to engage the inner face of the sole of the footwear, a lug carried by said plate and adapted to project through the sole of the footwear, a screw-threaded member pivotally secured to said lug, a second screw-threaded member circular in cross-sectional form and adapted to receive the first-mentioned screw-threaded member, and means for securing said last-mentioned screw-threaded member in the heel of the footwear, said securing means comprising a hub member having a reduced screw-threaded extremity provided with oppositely disposed grooves, a U-shaped wire adapted to enclose the end of said reduced extremity and

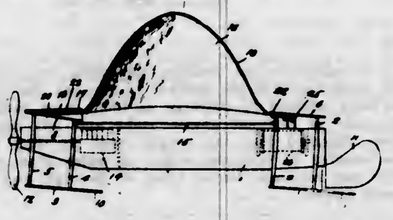
lie in said grooves, and a removable cap having a screw-threaded recess adapted to receive the reduced screw-threaded extremity of the hub member to secure said U-shaped wire therein in such a manner as to permit of its free ends engaging the internal threads of the circular screw-threaded member, as and for the purpose set forth.

1,423,788. CONNECTING ROD. FRANK ALVIN DREHER, Dover, Ohio. Filed Sept. 19, 1921. Serial No. 501,627. 5 Claims. (Cl. 287—93.)



1. A connecting rod comprising a head having an opening and end walls at the ends of the opening, a retaining strap extending over said opening and having its end portions provided with lugs engaging the end walls of said opening, said lugs and the end walls of said opening being provided with aligned openings, locking pins extending through said aligned openings and having notches, and springs connected to said strap and engaged in said notches whereby to prevent the accidental withdrawal of said pins.

1,423,789. ATTACHMENT FOR AEROPLANES. ANTON F. ERICKSON, Phillipsburg, Pa. Filed Oct. 25, 1920. Serial No. 419,335. 3 Claims. (Cl. 244—21.)



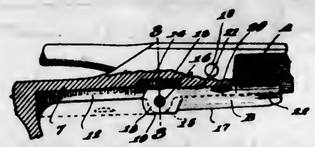
1. In a device of the class described, an aeroplane; a curtain connected at one end to the aeroplane, the other end of the curtain being formed into a roll; a flexible element connected to the last specified end of the curtain and rolled in with the curtain; a drum journaled on the aeroplane, the flexible element being connected to the drum; means for driving the drum; and mechanism under the control of an operator for rendering the drum responsive to said means, thereby to effect an unrolling of the curtain.

1,423,790. VEGETABLE-STEM REMOVER AND CRUSHER. ALEXANDER FLIS, Milwaukee, Wis. Filed Mar. 20, 1922. Serial No. 544,985. 8 Claims. (Cl. 146—5.)



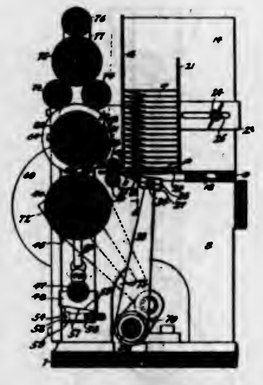
1. In a machine of the class described, a screw, a cutter member extending along adjacent said screw, and means for rotating said screw and cutter member in opposite directions, said cutter member being in the form of a bar of polygonal cross section.

1,423,791. STITCH CLIPPER FOR SCISSORS. CARY FRANCISCO, Porterville, Calif. Filed June 22, 1920. Serial No. 390,757. 2 Claims. (Cl. 30—13.)



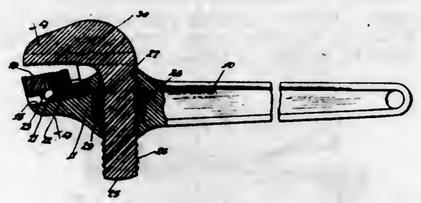
1. In combination, a pair of scissors having a longitudinally extending groove formed in the outer edge of one shank of one of its blades, a pair of depending ears formed on said shank intermediate the terminals of the groove, the inner wall of said groove having an inwardly extending notch positioned directly inwardly of said ears, a knife blade, a pivot pin connecting said knife blade to said ears, the shank of said knife blade having its edges arranged in parallel relation and flattened to form bearing bases, and an arcuate leaf spring having its terminals fitted in the opposite corners of said recessed portion and arranged to engage the flattened faces of the shank of the knife.

1,423,792. PRINTING PRESS. EDWARD J. GOWDY, Buffalo, N. Y. Filed May 22, 1919. Serial No. 298,889. 1 Claim. (Cl. 101—232.)



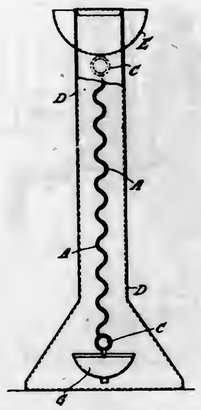
In a printing press, a printing roller journaled in normally fixed bearings, an impression roller co-operating with said printing roller and journaled in bearings which are movable toward and from the bearings of the printing roller, co-operating gear wheels connected with said printing and impression rollers and adapted to be engaged and disengaged upon moving said impression roller toward and from the printing roller and an article feed mechanism for delivering articles successively to said printing and impression rollers including a pair of co-operating feed rollers adapted to feed articles from a magazine to said printing and impression rollers, a pair of intermeshing gear wheels connected with said feed rollers, an intermediate gear wheel meshing with the gear wheel of one of said feed rollers and also with the gear wheel of said impression roller, and means for feeding the articles successively to said feed rollers and operating in time with said impression roller.

1,423,793. PIPE WRENCH. PAUL G. GREEN, Marshall, Mich. Filed Oct. 6, 1921. Serial No. 505,846. 2 Claims. (Cl. 81—165.)



1. In a wrench having a handle and a pair of gripping jaws extending approximately in longitudinal direction of said handle and with their gripping faces at a slight inclination to each other; one of said jaws being rigidly connected with said handle and the other jaw having transverse adjustment therewith, an element mounted to slide upon one of said jaws in parallel direction with the gripping side thereof and provided with a gripping surface, a cylindrical recess provided in said last named jaw, a compression spring lodged in said recess, a head on said element fitting said recess and abutting against said spring.

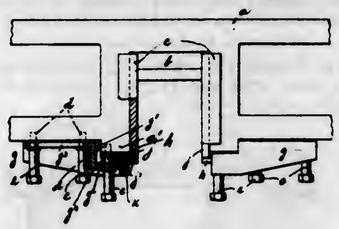
1,423,794. HEAT-EXCHANGE DEVICE FOR TREATING MILK, WORTS, AND THE LIKE. MAX GRUBENMANN, Zurich, Switzerland, assignor to Aluminum-Schweisswerk A.-G., Schlieren, Switzerland. Filed July 5, 1921. Serial No. 482,511. 1 Claim. (Cl. 257—187.)



In a heat exchange device, the combination of a pair of corrugated metal sheets, wires of the same metal fitting between the corrugations at opposite edges of the sheets, the sheets and the wires being welded together, and pipes welded to the other edges of the sheets and having in them orifices communicating with the space between the sheets.

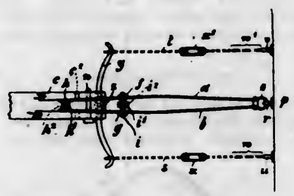
1,423,795. TOOL FOR FACILTATING THE ADJUSTMENT OF THE DRIVING SHOES OF LOCOMOTIVES. CARL GUGGENBUEHLER, Newark, N. J. Filed Sept. 27, 1920. Serial No. 413,205. 1 Claim. (Cl. 29—84.)

A tool for facilitating the adjustment of the driving shoes of locomotives, said tool including a block having an offset portion to conform with and bear against the lower surface of the bearing frame, and which has openings for the free passage of the bolts projecting from the said frame, a longitudinally slidable member mounted in



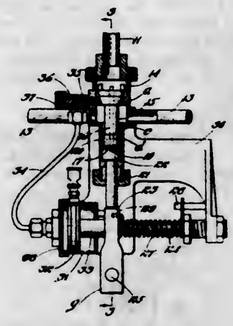
said offset portion, a vertical member removably engaged in said slidable member and serving to engage the lower edge of a driving shoe, and means for temporarily clamping said tool to the bearing frame.

1,423,796. CAR COUPLING. FRIEDRICH WILHELM HERMANN HAMANN, Hamburg, Germany. Filed Dec. 14, 1920. Serial No. 430,745. 2 Claims. (Cl. 280—33.44.)



1. An adjustable car coupling comprising two coupler rods connected with one another at one end, the other end being adapted to converge at their outer surfaces adjustably at different angles, right and left handed screws threaded into the coupler rods at their free ends adapted to vary the angle, at which these ends of the rods converge, central heads on the right and left handed screws.

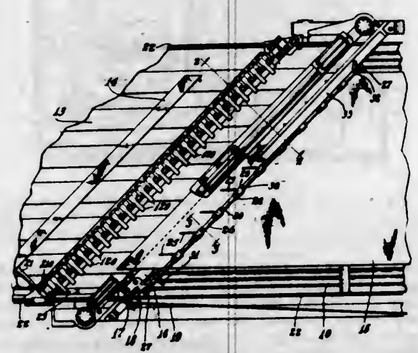
1,423,797. DRIFTING VALVE. JOHN H. HANLON, Somerville, Mass. Filed Oct. 24, 1917. Serial No. 198,217. 12 Claims. (Cl. 121—137.)



1. In a device of the character described, a casing containing a main valve, a main valve, connections from the boiler to the casing and from the casing to the cylinders of the locomotive and connections being controlled by

said main valve, a trip cylinder operatively connected with said main valve, steam connections from the main vave to the trip cylinder and throttle operated means for opening the main valve by the closing movement of the throttle.

1,423,798. FABRIC-CUTTING APPARATUS. JAMES F. HENNESSY, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 26, 1920. Serial No. 353,915. 8 Claims. (Cl. 164—48.)



1. In sheet-cutting apparatus, the combination of intermittently-acting sheet-feeding grippers, means for severing transverse strips from the end of the sheet, and sheet-recoil arresting means comprising a transverse series of sheet-operated, independently pivoted automatic checking devices individually operative to permit free passage of the sheet during its feeding movement and positively to grip the same due to an initial retracting movement thereof when the feeding grippers are released.

1,423,799. METHOD OF MAKING DICYANDIAMIDE. HARRY C. HETHERINGTON and JOSEPH M. BRAHAM, Washington, D. C. Filed June 28, 1921. Serial No. 481,058. 7 Claims. (Cl. 23—21.)

5. A process for the preparation of dicyandiamide, including extracting lime-nitrogen with water, filtering the extract, adding to the filtered extract sufficient sulphuric acid to combine with one-half the calcium in the extract, removing the calcium sulphate, adding to the remaining solution sulphuric acid in finely divided streams, removing the resulting calcium sulphate and recovering the dicyandiamide.

1,423,800. DRYING APPARATUS. RHUEL BRYANT HIBBARD, DENTON J. WATROUS, and JOHN G. BASSETTE, Groton, N. Y., assignors to Airdry Corporation, Groton, N. Y., a Corporation of New York. Filed Feb. 18, 1921. Serial No. 446,113. 22 Claims. (Cl. 34—26.)

1. A drying apparatus comprising a motor and heater box adapted to be embedded in a wall, a detachable face plate attached to said box and provided with a vertical slot, means for rotatably supporting a motor and heater element in said box, said element being provided with a discharge nozzle extending forwardly through the slot in said face plate and adapted to be moved up and down in said slot to position the nozzle, a switch box adapted to be embedded in a wall, a face plate detachably secured at the front of said switch box, a switch-operating element mounted on said face plate, a circuit-controlling switch within the switch box and connected to the operating ele-



ment, and circuit wires connected to the switch mechanism in the switch box and to the motor and heater element in the motor and heater box.

1,423,801. SPINNING, DOUBLING, AND TWISTING MACHINE. ROBERT E. HIKES, New York, N. Y., assignor to New Jersey Silk Machinery Company, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 9, 1921. Serial No. 490,868. 7 Claims. (Cl. 117—28.)

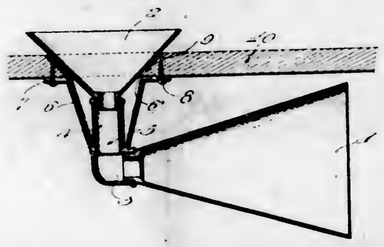


1. In combination, a spindle, a support therefor, a pair of spindles, a pair of supports for said pair of spindles pivoted concentrically with the first support, a driving belt arranged between the first spindle and the pair of spindles, and means to move the pair of supports back and forth together in reverse directions to cause the spindles to grip the belt or clear the same.

1,423,802. EAR TRUMPET FOR TRUCK DRIVERS. ERNEST W. HOFSTATTER, Nyack, N. Y. Filed Oct. 14, 1920. Serial No. 416,823. 2 Claims. (Cl. 181—27.)

1. An ear trumpet for truck drivers comprising a sound receiving horn, a sound emitting horn, a hollow elbow to whose ends said horns are secured with their discharge

ends at right angles to each other, and means carried by said elbow for attaching the entire device to a motor truck



with said receiving horn opening rearwardly outside of the truck and said emitting horn opening toward one of the driver's ears.

1,423,803. WRENCH. GEORGE D. ILLIG, Depew, N. Y. Filed Aug. 9, 1921. Serial No. 490,875. 8 Claims. (Cl. 81—165.)



1. In a wrench, the combination of two sheet metal portions secured together forming the handle and head of the wrench, a movable jaw, an adjusting nut, a metal insert member arranged between said sheet metal portions and forming therewith guide means for said movable jaw, and a bearing for said adjusting screw in said metal insert member.

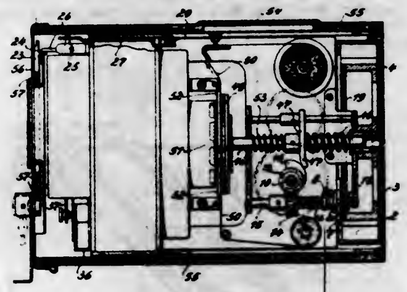
1,423,804. DRAWER ATTACHMENT FOR BEDS. CARL KONTOROWITZ, Rochester, N. Y. Filed July 20, 1921. Serial No. 486,161. 4 Claims. (Cl. 5—41.)



1. A drawer attachment for a bed having side rails, comprising a top plate arranged beneath the bed and having a pair of spaced parallel strips provided with L-shaped attaching brackets engaging one of the side rails, rods connected to said strips and having attaching brackets engaged with the other side rail, and a drawer slidably carried by said top plate.

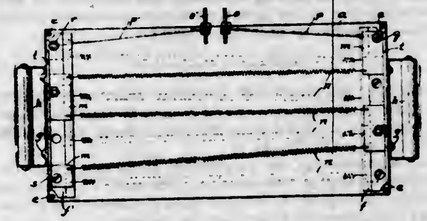
1,423,805. TIME RECORDER. GUSTAV KRUM, Duisburg-Beeck, Germany. Filed June 30, 1920. Serial No. 393,215. 4 Claims. (Cl. 234—36.)

1. Time recorder of the character set forth, comprising in combination with an enclosing case and a lid therefor, a rotary drum, a series of pockets forming the rim of said drum, means normally preventing rotation of said pocketed drum, means adapted to be inserted into said pockets for temporarily releasing said drum and means for advancing the latter during such temporary release the width of a



pocket, a clock work, time recording means driven by said clock work and actuated by said drum advancing means during the rotary advance of said drum, time record canceling means operating on unauthorized opening of said case lid, and means for arresting said clock work upon the recorder being repeatedly shaken.

1,423,806. ELECTRIC HEATING DEVICE. WILLIAM F. LESZELTER, Elizabethtown, Pa., assignor, by mesne assignments, to Earl M. Miller, Elizabethtown, Pa. Filed Sept. 3, 1921. Serial No. 498,262. 5 Claims. (Cl. 219—19.)

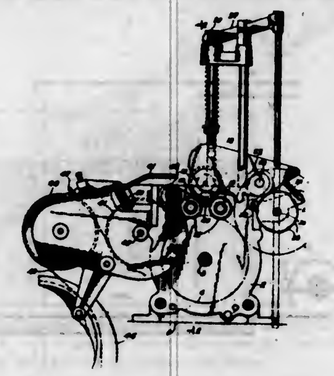


1. An electric heating device comprising, in combination, a body, oppositely disposed supports secured within the body, bus bars secured to the top and bottom of said supports, resistance elements extending between said supports in contact with said bus bars on the top and bottom of said supports respectively, and means serving to secure a bus bar on the top and bottom of one of said supports and adapted to transmit current through said support from one of said last mentioned bus bars to the other.

1,423,807. BALL-WINDING MACHINE. EVARTS G. LOOMIS, Newark, N. J. Filed Jan. 6, 1921. Serial No. 435,430. 19 Claims. (Cl. 242—3.)

6. In a machine of the class described, the combination of means for driving a ball or core from a plurality of points to rotate the same about a horizontal axis, means

for driving the ball or core from a plurality of other points to rotate the same about a vertical axis, and controlling



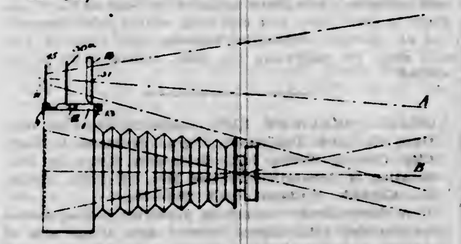
means for the ball driving mechanism to vary the rate and direction of rotation of the ball or core about the vertical axis with respect to its rotation about a horizontal axis.

1,423,808. MANIFOLDING SHEET. FRANK R. MCCLUSKY, Canfield, Ohio. Filed May 4, 1920. Serial No. 378,855. 4 Claims. (Cl. 282—27.)



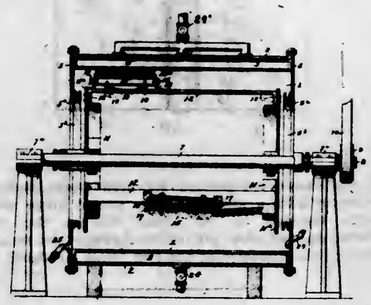
1. A manifolding sheet divided by lines of weakening into a plurality of substantially equal sections, a line parallel with the bottom of said sheet and located through all of said sections, said sheet being provided with printed forms above said line on alternate sections on the obverse side, and on the remaining sections on the reverse side of the sheet, the first and second sections having similar printed forms below said line and arranged to receive a carbon sheet therebetween, the remaining sections having different printed forms below said line and arranged to be filled in at different later intervals, one of the intermediate sections having a printed form upon each side of the sheet, the remainder of said sections being provided with carbon surfaces upon their backs extending down to said line, whereby at a single writing the first and second sections are filled out above and below said line and the remaining sections are filled out above the line only.

1,423,809. PHOTOGRAPHIC-VIEW FINDER. PAUL J. MARKS and WALTER O. MARKS, Rochester, N. Y. Filed Dec. 12, 1921. Serial No. 521,638. 16 Claims. (Cl. 33—64.)



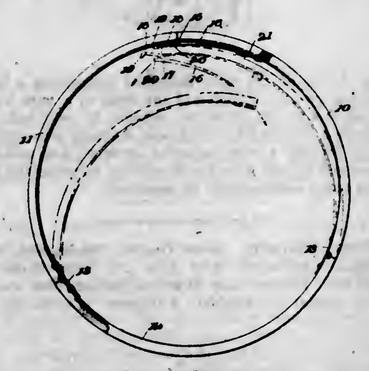
1. In a finder, the combination of a base member, a clamping member thereon, a supporting member slidably mounted on said base member, a plurality of sighting devices supported thereon, a clamping member on said supporting member, and resilient means for moving said clamping members into engagement with a camera.

1,423,810. METHOD OF PRODUCING A CONDENSED-MILK PRODUCT. HOWARD S. MELLOTT, Morenci, Mich., assignor to The By-Products Recovery Co., Toledo, Ohio, a Corporation of Ohio. Filed Apr. 11, 1916. Serial No. 90,393. 6 Claims. (Cl. 127—9.)



1. The method of treating milk to produce a condensed product consisting in subjecting the milk for a short period of time to a disrupting temperature, permitting the generated vapors to escape during the treatment, and finally subjecting the product while in its heated state to the action of a cooling agent.

1,423,811. COLLAPSIBLE RIM. WILLIAM E. MILLER, Savannah, Ga. Filed Apr. 1, 1919. Serial No. 286,711. 7 Claims. (Cl. 301—33.)

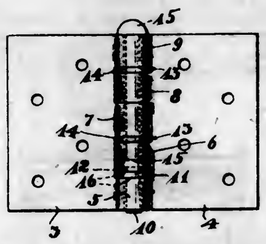


1. A collapsible wheel rim including a split rim body provided in one end portion thereof with an opening, a connecting lever swingingly mounted upon the opposite end portion of said rim body and movable to engage in said opening and connect the ends of the rim body, overlying the outer face of said first-mentioned end portion of the rim body and confronting the inner face of said second-mentioned end portion of the rim body, and means carried by the lever to oppose inward movement of the first-mentioned rim end away from the lever.

1,423,812. HINGE. JOHN R. MOODY, Los Angeles, Calif. Filed Oct. 24, 1921. Serial No. 509,993. 7 Claims. (Cl. 16—168.)

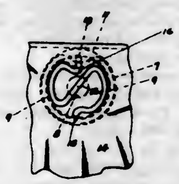
7. In a hinge, two oppositely arranged hinge members, each of the hinge members having knuckles normally spaced

when in engagement, a short engaging pin fitting into one knuckle of the one hinge member an dhaving a shouldered portion to rest on the first-named knuckle and having furthermore a short engaging end projecting be-



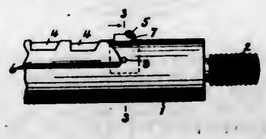
yond the shouldered portion for preliminary and slight engagement with a knuckle of the second hinge member, washers inserted in the space between the several knuckles, and another pin to fit through the remaining portion of the knuckles of the two hinge members.

1,423,813. GARMENT FASTENER. ROBERT J. MULVEY, Chicago, Ill. Filed July 12, 1920. Serial No. 395,598. 5 Claims. (Cl. 24—88.)



1. A device of the class described comprising a body; a securing member therefor in the form of a wire having one end secured in operative relation to said body, the free portion of said wire being bent laterally into tortuous form to provide a large engaging surface; and means at the free end of said wire for detachably securing the same to said body, substantially as described.

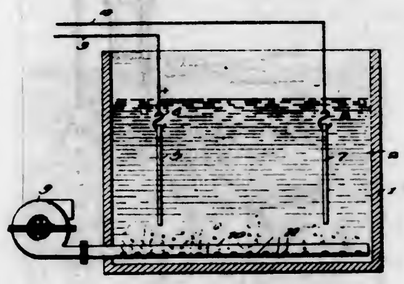
1,423,814. BROACH. JOHN OAKLEY, Springfield, Mass. Original application filed June 25, 1918, Serial No. 241,748. Divided and this application filed Oct. 6, 1920. Serial No. 415,010. 8 Claims. (Cl. 90—33.)



1. A broach comprising a shank provided with a row of teeth, and further provided with a detachable guiding member in advance of said teeth.

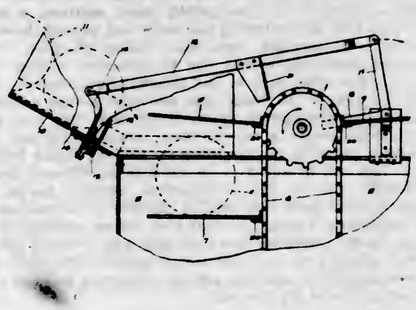
1,423,815. ELECTROPLATING PROCESS. NELSON V. PARK, Niles, Mich. Filed July 6, 1921. Serial No. 482,769. 2 Claims. (Cl. 204—11.)

1. The herein described process of electroplating which consists in introducing downwardly directed currents of air differing in pressure by means of a nozzle having openings of various diameters therein into an electrolyte containing cell having an anode and a cathode element im-



mersed therein whereby the currents of air will agitate the electrolyte and effect the continuous washing of metal from the anode for transfer to the cathode.

1,423,816. CAN-WASHING MACHINE. WALTER H. PAULSON, Chicago, Ill., assignor to Harry D. Lathrop, Chicago, Ill. Original application filed May 22, 1920. Serial No. 383,333. Divided and this application filed May 22, 1920. Serial No. 383,334. 4 Claims. (Cl. 198—26.)

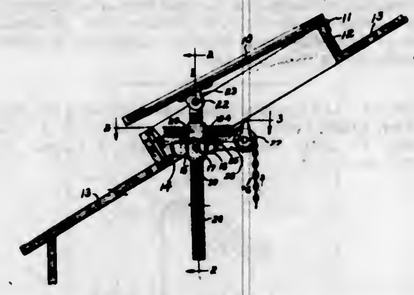


1. Apparatus of the class described comprising a conveyor; an inclined support leading to said conveyor; an oscillating shaft mounted under said support adjacent said conveyor; two stops mounted on said shaft at an angle to each other and operating within said support; and an operative connection between said conveyor and said shaft for oscillating the same, substantially as described.

1,423,817. SKYLIGHT LIFT. ADOLPH G. PITZ and OTTO X. SAUR, Bridgeport, Conn., assignors to Park City Cornice Works, Inc., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 17, 1921. Serial No. 452,912. 4 Claims. (Cl. 268—20.)

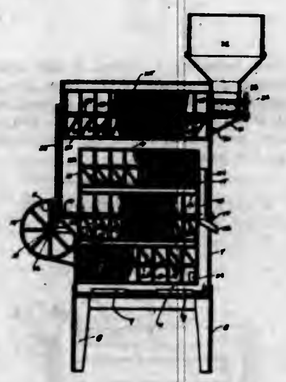
1. A closure device comprising a bracket having spaced arms provided with aligned recesses open at one side of the arms, a rocker pivotally mounted in said recesses, a lifting screw, a pulley carried by the rocker and having threaded engagement with said screw for moving the

latter, a flexible operating member cooperating with said pulley, a pair of guides for said operating member car-



ried by said rocker, and a locking member extending over the pulley and engaging under the arms of the bracket to prevent removal of the pulley and screw.

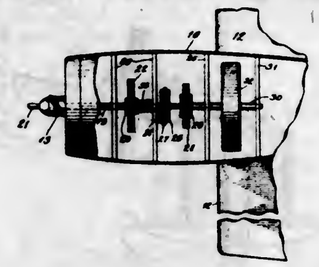
1,423,818. COFFEE ROASTER. NATHANIEL B. POST, Chicago, Ill. Filed Nov. 17, 1920, Serial No. 424,598. Renewed June 5, 1922. Serial No. 565,895. 11 Claims. (Cl. 34—5.)



6. A roaster comprising a plurality of revolving roasting chambers provided with openings whereby the material is delivered from each chamber to the next successive chamber; a plurality of substantially transverse partitions in each of said chambers dividing the same into a plurality of chambers, each partition being provided with a transfer opening and an inclined deflector for transferring the material through each chamber in one direction, and through successive chambers in opposite directons; and means for heating said chambers, substantially as described.

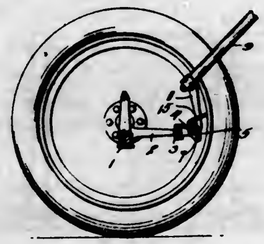
1,423,819. TOY. JACOB SHAPIRO and HARRY SHAPIRO, New York, N. Y. Filed Apr. 14, 1920. Serial No. 373,691. 1 Claim. (Cl. 46—45.)

A toy having a shaped body, front and rear traction wheels supported therefrom, and a driving mechanism mounted in the forward portion of the toy and adapted to hold the latter well balanced, said driving mechanism comprising a main shaft, a counter-shaft, means for operating said main shaft, means for transmitting motion from said main shaft to said counter-shaft, resilient means disposed on said main shaft for disposing said transmission means in operative relation, an energising shaft having an inertia wheel mounted thereon, means on said counter shaft for driving said front traction wheels from said main shaft and means for transmitting motion from said counter shaft to said energising shaft whereby the



operation of the main shaft simultaneously operates said inertia wheel and front traction wheels so that the latter are self-propelled when the toy is disposed for operation.

1,423,820. ANTILOCK DEVICE FOR STEERING GEARS. WILLIAM F. STAGGERS, Mannington, W. Va. Filed Aug. 15, 1921. Serial No. 492,421. 2 Claims. (Cl. 280—89.)



1. A device for preventing the steering wheel of an automobile of the type described from turning to a point likely to cause it to pass over a dead center, consisting of a stop frame having sides suitably spaced from the steering arm to limit its movement beyond a predetermined degree, said means being positioned on the cap of the ball socket which the steering arm engages.

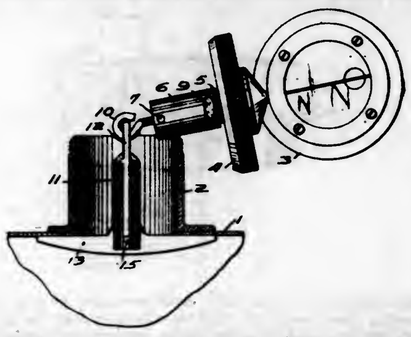
1,423,821. COATING OR SEALING COMPOSITION. MORTIMER I. STRAUSS, Cleveland, Ohio. Original application filed May 18, 1917, Serial No. 169,451. Divided and this application filed Jan. 31, 1921. Serial No. 441,511. 3 Claims. (Cl. 134—26.)

3. A composition of matter which is impervious to and unaffected by gasoline, oils and the like and which remains substantially permanently pliable or flexible when applied in coatings or layers, said composition comprising an alcoholic solution of the precipitated product of a caustic soda solution of shellac and sulphuric acid combined in homogeneous form with a fibrous inorganic body material.

1,423,822. MOTOR-METER LOCK. LEE L. WINTERS, Ann Arbor, Mich. Filed Dec. 13, 1920. Serial No. 430,133. 6 Claims. (Cl. 220—24.)

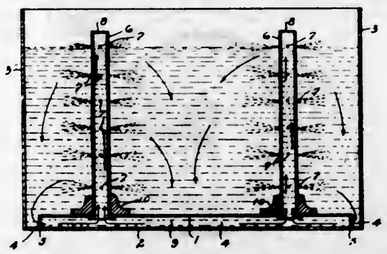
5. In an automobile motor meter lock, a shell adapted to be connected to the motor meter and to extend into the neck of the radiator of the automobile, and having slots located at the lower end of the shell and on opposite sides of the shell, a cross bar pivotally connected to the lower end of the shell and located in the slots, the cross bar having an ear extending into the shell and movable in the slots, the ear having a circular recess, a ball rota-

table in the shell in all directions and substantially fitting the shell and the recess and for locking the cross



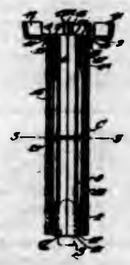
bar from movements relative to the shell, the cross bar being pivoted to the shell at a point below the ear.

1,423,823. WASHBOILER ATTACHMENT. JOHN T. WOOD, East St. Louis, Ill. Filed Apr. 28, 1921. Serial No. 465,098. 1 Claim. (Cl. 68—30.)



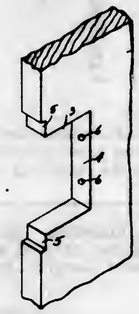
A wash-boiler attachment, composed of a rectangular false-bottom member having a series of vertical perforated tubes rising from its upper surface, and provided with straight downwardly-extending outwardly-flared marginal flanges between the adjacent ends of which at each corner of said member are V-shaped water-inlet openings; and combined weights and braces surrounding the lower portions of said tubes and securely fastened to the said rectangular false-bottom member.

1,423,824. COP OR BOBBIN HOLDER. EDWARD ADELL, Orange, Mass., and CARL A. BRINK, Cranston, R. I., assignors to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 13, 1920. Serial No. 409,898. 9 Claims. (Cl. 242—121.)



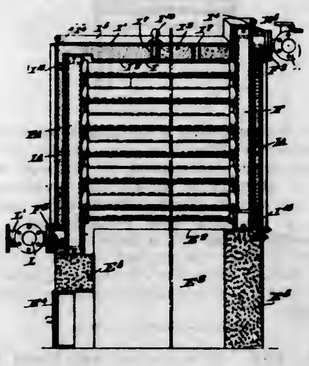
7. A cop- or bobbin-holder comprising a cylindrical sleeve having longitudinal slits forming ribs which are bowed outwardly to adapt them to act as spring elements to engage the interior of the cop-tube, and an inner tube arranged concentrically within the outer sleeve extending throughout its length and provided with an annular abutment adapted to serve as a stop-rest for the spring-members to limit the extent of their contraction to prevent impairment of their resiliency.

1,423,825. DOOR LOCK AND METHOD OF APPLYING THE SAME. WILLIAM ANDERSON, Newark, N. J. Filed May 19, 1921. Serial No. 470,877. 1 Claim. (Cl. 70—16.)



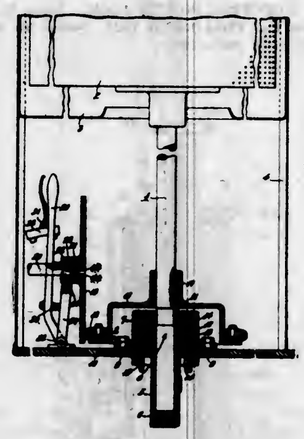
A door lock including a casing, a face plate carried thereby, anchoring pins projecting from the rear wall of said casing, in combination with a door recessed to receive said lock casing and face plate, and escutcheon plates disposed across said recess and secured to the door for enclosing the lock casing.

1,423,826. WASTE-HEAT ECONOMIZER. JOHN E. BELL, Brooklyn, N. Y. Filed Oct. 8, 1918. Serial No. 257,408. 5 Claims. (Cl. 122—421.)



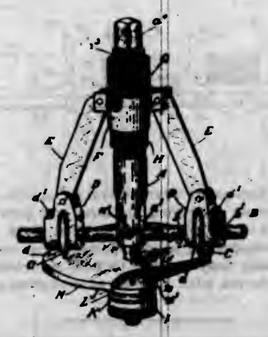
1. A horisontal economiser having side walls formed of long and narrow headers set vertically and in contact with each other to form solid unbroken side walls, in combination with vertical rows of horisontal water tubes connecting oppositely disposed vertical header so as to form with said headers a series of economiser sections, a heat insulating top wall supported on the tops of the vertical headers and means for supplying water to the headers on one side of each section and for carrying off the heated water from the opposite headers.

1,423,827. EXTRACTOR. DANA H. BENJAMIN, Cleveland Heights, and ARTHUR R. CURTIS, Cleveland, Ohio, assignors to Solomon D. Guggenheim, Cleveland Heights, Ohio. Filed June 8, 1918. Serial No. 238,928. 2 Claims. (Cl. 74—26.)



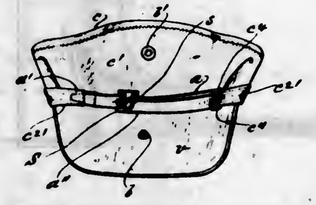
1. In an extractor, the combination of a stationary frame, an extractor spindle, cushioning devices between said spindle and frame adapted to permit and resiliently resist oscillation of said spindle about a center, said devices being disposed symmetrically around and above and below said center, a friction driven member carried by said spindle and rotatable upon a vertical axis and having a driving surface symmetrical with respect to a horisontal plane through said center, and a friction driving disc rotatable on a horisontal axis and contacting said driven member in said plane, whereby oscillation of said spindle about said center does not disturb the driving relation.

1,423,828. CIRCLE-CUTTING TOOL. MAURICE A. BUTTERFIELD, Lowell, Mass. Filed Feb. 9, 1921. Serial No. 443,660. 3 Claims. (Cl. 164—82.)



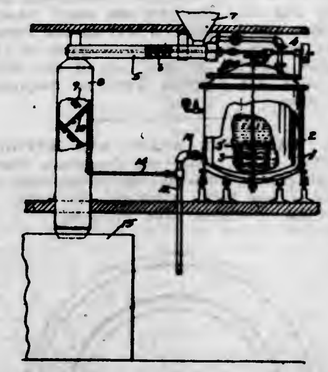
1. In a tool for cutting circular work from sheet material, the combination of a stock, cutters carried by said stock through a circle, by a single revolution of said stock, said stock being screw-threaded; a nut turning on said stock, on the opposite side of said work, from said cutters, washers loosely surrounding said stock between said nut and said work, a ball-cage surrounding said stock between said washers, and anti-friction balls carried by said cage and pressing against said washers.

1,423,829. CAP. JULIUS CARLSON, Brooklyn, N. Y. Filed Dec. 17, 1921. Serial No. 523,128. 2 Claims. (Cl. 2—106.)



1. A cap of the character designated, formed with a crown band having its ends free and forming integral frontal flaps, and adjustive means connecting the otherwise free ends of said flaps, consisting of a copulative strap rigidly attached to the end of one flap, a loop on the end of the other flap, said copulative strap extending through said loop on the end of the other flap, and a slidable buckle on the main strand of said copulative strap, and snap button connective means for detachably securing the free end of said copulative strap to said slidable buckle, substantially in the manner and for the purpose described.

1,423,830. RICE-PRESERVATION PROCESS. SANDER IVER CHRISTENSEN, Willows, Calif. Filed Sept. 19, 1921. Serial No. 501,760. 2 Claims. (Cl. 99—5.)

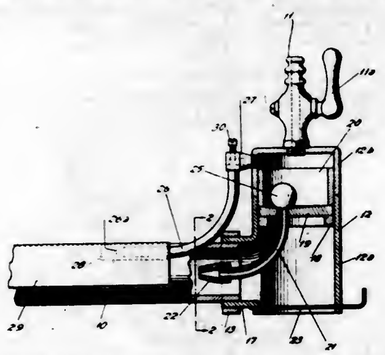


2. A process of treating rice which comprises agitating a body of rice, applying heat to a quantity of salt solution sufficient to cause it to steam, placing the rice in the steam from said solution, agitating the rice during the time it is passing through the steam ascending from said solution, and thereafter drying the steamed rice.

1,423,831. MEANS FOR CONTROLLING THE FLOW OF FLUIDS. CHARLES H. COCHRANE, New York, N. Y. Filed Mar. 17, 1921. Serial No. 453,007. 7 Claims. (Cl. 137—139.)

1. Apparatus for controlling the flow of fluids embody-

ing means controlled by the force of gravity when at rest and by vibratory movement imparted thereto when such



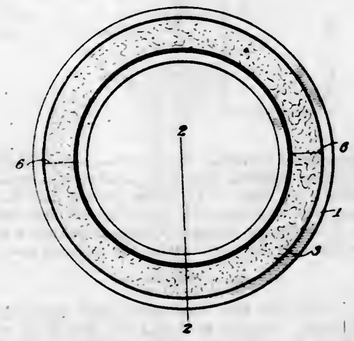
movement is sufficient to overcome the force of gravity by which it is normally controlled.

1,423,832. TONE MODIFIER FOR PHONOGRAPHS. FRED W. COOLEY, Minneapolis, Minn. Filed Apr. 4, 1921. Serial No. 458,432. 10 Claims. (Cl. 181—27.)



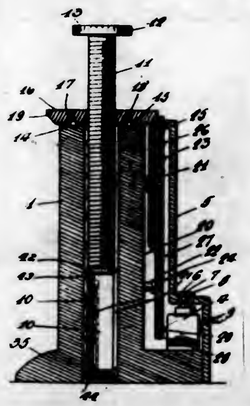
1. The combination with the tone arm of a sound reproducing machine, of concentric spaced tubes located where the sound waves will pass therethrough on their way from said tone arm into the sound chamber of said machine, and a connection between said tubes, said connection comprising a plurality of layers of yielding compressible material, at least one of the layers of material being of a different degree of compressibility than the other.

1,423,833. FASTENING MEANS AND METHOD OF APPLYING SAME. MAGRUDER CRAIGHEAD, Hartsdale, N. Y., assignor to Johns-Manville Incorporated, a Corporation of New York. Filed Mar. 24, 1920. Serial No. 368,255. 2 Claims. (Cl. 192—107.)



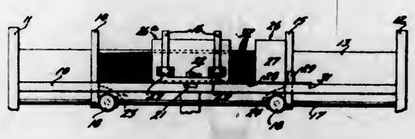
1. The combination of a base member having a ring-shaped groove with one wall under-cut, a second member conforming in curvature to the groove, and of a cross section similar to that of the groove but of slightly less width and a key adapted to fill the space between one wall of the base member and the opposing wall of the second member when the second member rests on the bottom of said groove.

1,423,834. ELECTRIC POWER JACK. JOHN M. CRUM, Johnstown, Pa. Filed Oct. 20, 1921. Serial No. 509,094. 6 Claims. (Cl. 254—103.)



1. An electric power jack comprising a body portion, spaced laterally extending wing portions formed integral therewith, a jack screw operable in said body, a nut or follower carried by said screw means for preventing said screw from rotating, an electric motor positioned between said spaced wing portions, and means connecting said motor with said nut for operating the jack.

1,423,835. AUXILIARY SHEET GAUGE FOR PLATEN PRESSES. ABRAHAM DANZIGER, New York, N. Y. Filed Nov. 19, 1921. Serial No. 516,430. 7 Claims. (Cl. 271—61.)



1. An auxiliary gauge of the character specified, adapted to rest on a sheet delivering platform of a printing press equipped with sheet positioning gauges, with said auxiliary gauge comprising a body portion, and means associated with said body portion to hold said body portion in effective relation with any one of said gauges and said platform.

1,423,836. SMALL ARM COMPRISING A STRIKER SLIDING IN A BREECH BOLT. JOSEPH DECLAYE, Liege, Belgium. Filed Sept. 9, 1920. Serial No. 409,174. 7 Claims. (Cl. 42—69.)

1. A small arm for rim fire cartridges, comprising a barrel, a receiver, a breech bolt, a striker sliding in said breech bolt, a firing pin actuated by said striker, and means for limiting the displacement of said striker during



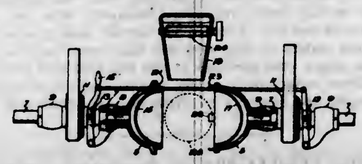
the firing before the latter has accomplished its full travel in the breech bolt.

1,423,837. BALL. ISAAC DE GOWIN, New Haven, Conn., assignor to The Seamless Rubber Company, Inc., New Haven, Conn., a Corporation of Massachusetts. Filed Apr. 23, 1920. Serial No. 376,165. 4 Claims. (Cl. 154—16.)



2. A ball comprising a center and molded hemispherical felt sections secured thereover.

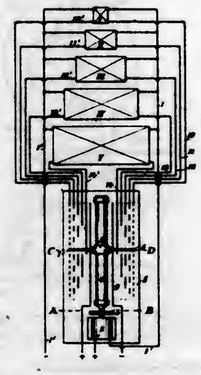
1,423,838. METHOD AND APPARATUS FOR COVERING BALLS. ISAAC DE GOWIN, New Haven, Conn., assignor to The Seamless Rubber Company, Inc., New Haven, Conn., a Corporation of Massachusetts. Filed May 12, 1920. Serial No. 380,882. 7 Claims. (Cl. 154—16.)



1. The method of covering balls comprising forming shell sections of felting fibers, supporting them externally, introducing a ball center between them and felting them about the same.

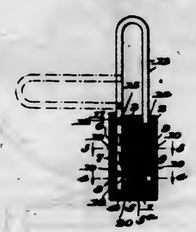
1,423,839. DEVICE FOR AUTOMATICALLY CONTROLLING THE OUTPUT OF ELECTRICAL PLANTS. MICHEL DOLOUKHANOFF, Charlottenburg, Germany. Filed Mar. 23, 1922. Serial No. 546,201. 5 Claims. (Cl. 171—119.)

1. Apparatus for automatically controlling electric plants, comprising transformers of different capacities arranged in parallel; a measuring device in series with the secondary circuit of said transformers; a double switch, one switch element being in circuit with the primary circuit and the other switch element in circuit with the sec-



ondary circuit, said double switch comprising contacts in the path of the switch elements arranged to control the output from the transformers in any predetermined series and means operated by the measuring device for operating said switch in any predetermined series.

1,423,840. PERMUTATION PADLOCK. FREDERICK A. DURBIN, Evansville, Ind., assignor of one-half to Joseph F. Maday, Evansville, Ind. Filed May 18, 1921. Serial No. 470,635. 1 Claim. (Cl. 70—113.)

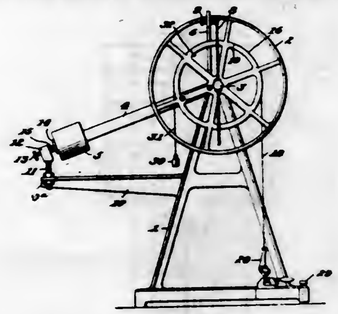


In a permutation padlock, the combination with a cylindrical body having enlarged heads at its ends and a longitudinally extending groove in its side, of a plurality of peripherally exposed annular tumblers each having an internal notch, said tumblers being rotatably mounted on said body between the heads thereof, and a shackle having a leg slidable in said groove and adapted to be locked by said tumblers, or released when their notches register with the groove aforesaid, said leg being provided with a lug at its inner end, there being provided in the body a pocket to loosely receive said lug and a shoulder overhanging said pocket, said pocket permitting the leg to be slid lengthwise of itself and the shoulder serving as a stop to engage the lug and prevent complete detachment of the shackle from the body, and peripherally exposed annular false tumblers associated with the locking tumblers but having no locking action on the shackle.

1,423,841. TEARING TESTER. ARMIN ELMENDORF, Madison, Wis. Filed Feb. 3, 1920. Serial No. 356,078. 7 Claims. (Cl. 265—17.)

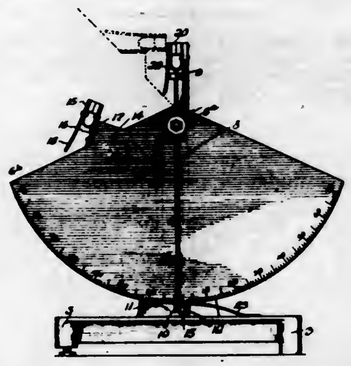
1. In a device of the kind described, means for testing the strength of material, comprising a wheel, a pendulum connected to said wheel, means for mounting the wheel to permit said wheel to turn and said pendulum to swing,

means adapted to hold the material to be tested, a connection between said wheel and said holding means, means to hold said pendulum means to release said pendulum allow-



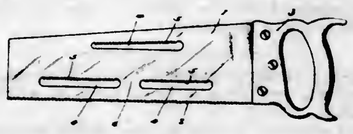
ing the movement of said pendulum to tear the material to be tested, and indicator means adapted to co-operate with said wheel.

1,423,842. TEARING TESTER. ARMIN ELMENDORF, Chicago, Ill. Continuation of application Serial No. 356,078, filed Feb. 3, 1920. This application filed Aug. 31, 1920. Serial No. 407,165. 6 Claims. (Cl. 265—17.)



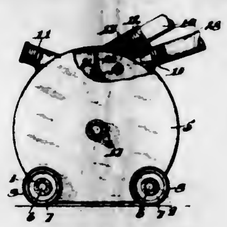
1. In a testing device, a frame, a pendulum mounted to rotate thereon, said pendulum being calibrated, a clamp attached to said pendulum, a second clamp attached to said frame and adapted to cooperate with said first clamp to hold material to be tested, and a pointer frictionally mounted on the hub of said pendulum and cooperating with said pendulum to measure the work done in tearing the material.

1,423,843. SAW. OLIVER D. ESHELMAN and WILLIAM F. BOAST, Casper, Wyo. Filed Jan. 17, 1921, Serial No. 437,803. Renewed June 9, 1922. Serial No. 567,192. 2 Claims. (Cl. 145—31.)



1. A saw blade provided with a plurality of slots disposed in staggered relation with respect to each other and each provided along one edge with teeth pointing in the same direction as the normal cutting teeth and their cutting edges running parallel with that of the normal cutting teeth.

1,423,844. VEHICLE-WASHING MACHINE. MARTIN J. FENELON, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,626. 4 Claims. (Cl. 15—24.)



1. A cleaning device comprising a housing; a hub rotatably mounted in said housing; cleaning members radially and adjustably mounted with respect to said hub; and separate means mounted on the opposite sides of said housing for directing fluid against either side of said members for rotating the same in either direction, substantially as described.

1,423,845. DISPENSING AND DISPLAY HOLDER FOR CONFECTIONERY. HERBERT D. FOSS, Brookline, Mass., assignor to H. D. Foss & Company, Inc., Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 25, 1922. Serial No. 546,582. 1 Claim. (Cl. 211—28.)



A dispensing and display holder comprising a casing composed of a bottom member, upright side members, and a front end member, closing the front end of the casing, the rear end being open, said members collectively forming a box holder proportioned to receive a relatively large candy box which is movable into and out of the casing through the open end thereof, the end and side members projecting above the space occupied by said box, and longitudinal upwardly facing rests, projecting inwardly from the side members below the upper edges thereof, and provided at their rear ends with stop ears, the said rests, the stop ears and the upper edge portions of the end and side members collectively constituting a tray-holder, adapted to support and display the contents of a tray removed from said box.

1,423,846. VEHICLE BRAKE. BERNHARD O. FREDERICK, Hibbing, Minn. Filed Mar. 1, 1921. Serial No. 448,750. 4 Claims. (Cl. 188—5.)

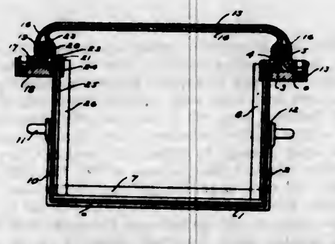


1. The combination with a vehicle having vertically suspended ground engaging shoes adjacent the wheels of said vehicle and means cooperatively engageable intermediate of the wheels and shoe whereby forward motion of the former may be employed in applying the latter as a brake, and means whereby the brake may be applied independently of the motion of the wheels.

1,423,847. METHOD OF PRODUCING SILICON-MANGANESE-CHROME STEEL. GUNNAR GUSTAFSON, Avesta, AXEL AUGUST JUNGMARKER, Stockholm, and KARL ALBERT CASPERSSON, Engelsberg, Sweden. Filed Mar. 17, 1921. Serial No. 452,995. 1 Claim. (Cl. 75—45.)

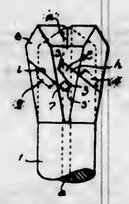
The method of making open hearth steel which comprises producing basic open-hearth steel, adding thereto ferromanganese and then adding to the metal a previously melted decarburized alloy of ferro-chrome and ferro-silicon.

1,423,848. COFFIN. JOSEPH H. HARPER, Springfield, Ohio. Filed Jan. 27, 1921. Serial No. 440,433. 9 Claims. (Cl. 27—17.)



3. In a coffin, a bottom and sides, said sides being projected at their upper edges laterally, upwardly, downwardly and outwardly, a brace adjacent either of the sides projecting above the lateral projection of the side, a top composed of an inner and outer wall adapted to embrace between their lower edges the upwardly projecting portion of the sides and the internal brace, a reinforcing means adjacent the point of union of the top members and the sides, and means for positively fastening together said top, sides and reinforcing means.

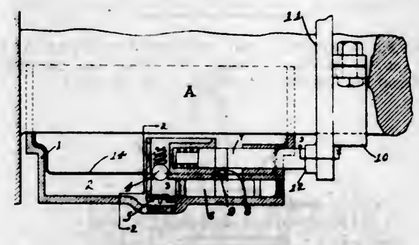
1,423,849. DRILL. ARTHUR L. HAWKESWORTH, Butte, Mont. Filed Nov. 21, 1921. Serial No. 516,783. 5 Claims. (Cl. 287—103.)



1. In combination with a drill bar or shank, a bit movable across the axis of the shank, said bit and drill bar each being provided with an inclined tapering tongue and groove disposed in superposed planes and complementary to the groove and tongue of the opposite member, said tongues and grooves being formed so as to wedge together with vertical pressure along the axis of the drill bar.

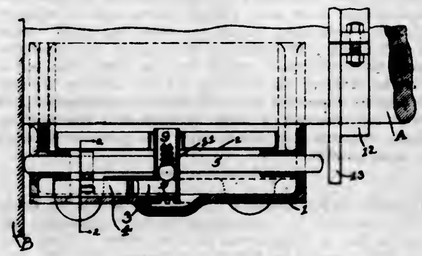
1,423,850. JOURNAL LUBRICATOR. JAMES J. HENNESSY, New York, N. Y. Filed Sept. 20, 1921. Serial No. 501,867. 1 Claim. (Cl. 64—24.)

In combination, a railway car journal, a journal lubricator including a waste receptacle held in contact with said journal, a lubricant reservoir adjacent to said receptacle, a pump for feeding lubricant from said reservoir to waste in said receptacle, a pump actuating rod extending parallel with said journal exteriorly of said reservoir



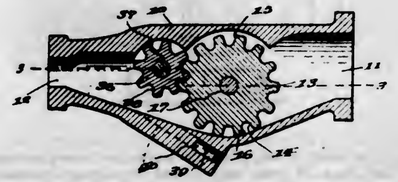
and receptacle, a cam mounted on said journal and contacting with said rod to move the latter axially in one direction with each revolution of the journal, and means energized by such movement to return said rod to its original position.

1,423,851. JOURNAL LUBRICATOR. JAMES J. HENNESSY, New York, N. Y. Filed Sept. 20, 1921. Serial No. 501,868. 1 Claim. (Cl. 64—24.)



In combination with the journal and hub of a car wheel, a collar adapted to be clamped to said journal at a point spaced from the wheel hub, a journal lubricator applied to said journal between the wheel hub and said collar, said lubricator comprising a lubricant reservoir and a pump for feeding lubricant from said reservoir to the journal, a pump operating rod extending through the opposite walls of said lubricator with its opposite ends respectively opposing the wheel hub and collar, and a connection between said rod and said pump.

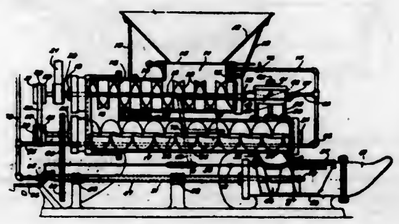
1,423,852. PUMP. KARL HERMAN, Chester, Pa. Filed May 2, 1921. Serial No. 466,274. 4 Claims. (Cl. 103—148.)



1. A pump comprising a casing, an impelling rotor mounted in the casing, the casing having inlet and outlet openings, a driving rotor operatively connected with the

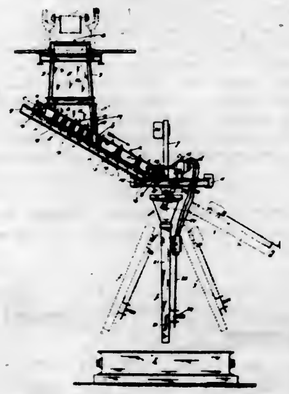
impelling rotor, means for admitting a motive fluid to the driving rotor, means for discharging the motive fluid from the driving rotor to the impelled fluid within the casing, and means actuated by the impelling rotor for preventing retrogression of the impelled fluid.

1,423,853. MIXING AND CONVEYING APPARATUS. CARL W. HODGSON, Chicago, Ill. Filed Jan. 24, 1921. Serial No. 439,450. 17 Claims. (Cl. 83—73.)



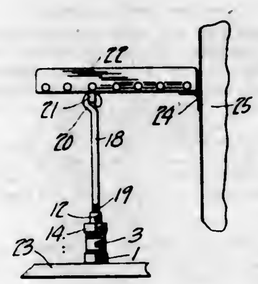
1. An apparatus of the character described embodying two chambers, one of the chambers discharging into the other, a combined mixer and conveyor in each of the chambers and embodying helicoids spaced in directions lengthwise of their axes, the proximate ends of adjacent helicoids overlapping, means for actuating them, means for delivering a dry mixture into one of the chambers, means for delivering a liquid into the other chamber, a receiving chamber for receiving the wet mixture, a delivery conduit connected with the last recited chamber, and means for directing a blast of fluid into the said receiving chamber for discharging the mixture through the said conduit.

1,423,854. SAND FEEDER. KARL S. HOWARD, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 16, 1918. Serial No. 267,074. 6 Claims. (Cl. 198—72.)



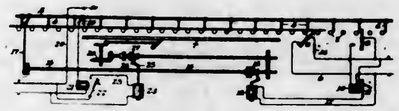
2. In a sand feeder, a supply hopper, a conveyor forming the floor of said hopper and extending outwardly therefrom, and a discharge chute at the end of said conveyor and formed in two sections, one section pivoted to swing in a vertical plane and the other section pivoted to said first-mentioned section to swing in a vertical plane at right angles to said first mentioned plane.

1,423,855. LOCOMOTIVE ENGINEER'S SEAT. OMAR JOHNSON, Laramie, Wyo. Filed Nov. 28, 1921. Serial No. 518,420. 1 Claim. (Cl. 155—51.)



A seat for locomotive engineers, comprising a seat base, a seat hinged above the base to one side of the locomotive cab; and a resilient element mounted between the seat and seat base, said element consisting of an interiorly threaded base cap to rest inverted upon the seat base; a pipe nipple exteriorly threaded at each end, one end being adapted to engage the base cap, two nested coil springs adapted to compress within the pipe nipple, a plunger to seat upon the springs compressed in the pipe nipple, the lower end thereof being tubular to receive the upper ends of the springs and the upper end being a reduced tubular shank threaded interiorly, a top cap for setting over the shank of the plunger, same having a hole through which the shank passes and being threaded interiorly to engage the upper end of the pipe nipple, and an eye bolt to engage the plunger shank, the eye of the bolt being secured to the under side of the seat.

1,423,856. DELIVERY MECHANISM FOR ROLLING MILLS. ALFRED E. JUPP and ROXIE S. CROOKS, Youngstown, Ohio, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio, a Corporation of Ohio. Filed Apr. 17, 1919. Serial No. 290,890. 9 Claims. (Cl. 198—21.)

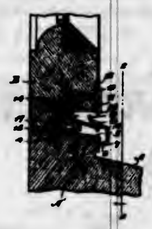


1. The combination with a cooling bed and its runway, of a push-off device for moving the hot workpieces from the runway to the cooling bed, and push-off controlling means on the runway actuated by but not materially checking the movement of the workpieces along the runway and operating upon engagement by a workpiece to start the push-off device, substantially as described.

1,423,857. WATERPROOFING DEVICE. GEORGE A. KAMPMANN, Brainerd, Minn. Filed Oct. 1, 1919. Serial No. 327,645. 5 Claims. (Cl. 20—69.)

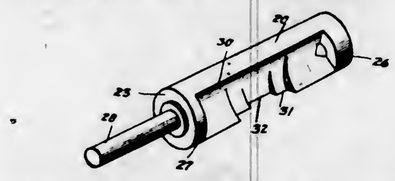
1. As a part of a weatherstrip device, a member comprising a substantially flat web arranged to be secured against the outside of a closure and having its material extending inwardly from the lower edge of the web as

the upper wall of a pocket portion arranged to seat against material of the closure to which the member is attached,



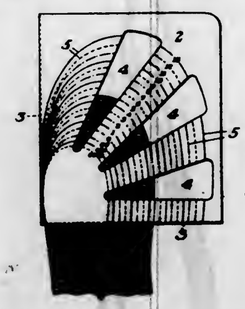
and having its material also extending outwardly and downwardly from the inner end of the pocket portion as the lower wall thereof.

1,423,858. THROTTLE VALVE. WALTER F. KASPER, Fairmont, Minn., assignor to Fairmont Gas Engine & Railway Motor Car Company, Fairmont, Minn., a Corporation of Minnesota. Filed Mar. 12, 1920. Serial No. 365,344. 6 Claims. (Cl. 123—59.)



6. A throttle valve for a two cycle internal combustion engine, comprising a rotatable cylindrical valve having a segmental port along one side, said port having an arcuate bottom wall, and a plurality of ports progressively decreasing in length and increasing in depth from the opposite ends of the segmental port and formed in one side edge thereof, the bottom walls of the second ports, being arcuate and merging into the bottom wall of the first port in progressively spaced order from said side edge thereof.

1,423,859. HEEL GAUGE. JOHN S. LANSILL, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a Corporation of Pennsylvania. Filed Apr. 5, 1921. Serial No. 458,808. 10 Claims. (Cl. 33—3.)



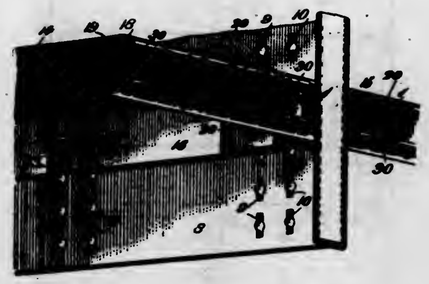
1. A gauge having a series of heel contour gauge or size lines or markings thereon, said lines or markings having a substantially common point of origin, substantially as described.

1,423,860. OIL-WELL PUMP. JOHN J. LARKIN, St. Louis, Mo., and ROBERT L. GORDON, Bartlesville, Okla., assignors to Bell Pump Company, Bartlesville, Okla., a Partnership composed of John J. Larkin, Robert L. Gordon, and A. W. Shulthis, Independence, Kans. Filed Sept. 1, 1921. Serial No. 497,570. 2 Claims. (Cl. 103—204.)



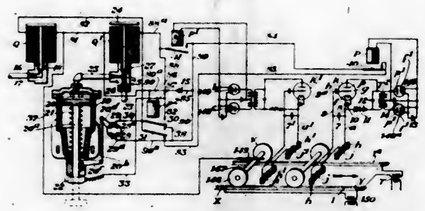
2. In an oil well, a pump device comprising a working barrel adapted to cooperate with the pump casing to form a pocket and provided with a standing valve seat at a substantial distance above the bottom of the pocket, a discharge chamber wall surrounding said barrel and extending into said pocket and provided with a toothed lower end which extends below said standing valve upon the down stroke of the pump.

1,423,861. LOCKING MECHANISM FOR SHELVING AND OTHER ARTICLES. ALBERT H. LEVENE, Philadelphia, Pa. Filed Oct. 2, 1919. Serial No. 327,904. 8 Claims. (Cl. 211—27.)



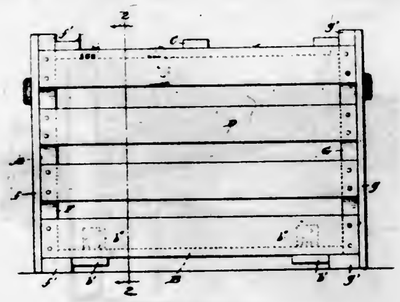
1. A shelving member having a double line of apertures, shelving members on opposite sides of said first shelving member, the side members each having an aperture to register with one line of apertures in the first shelving member, and locking devices to pass through registering apertures, the shelving member on one side being removable without affecting the locked condition of the member on the other side.

1,423,862. RAILWAY-TRAFFIC-CONTROLLING SYSTEM. LLOYD V. LEWIS, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Continuation of application Serial No. 230,424, filed Apr. 24, 1918. This application filed Dec. 31, 1920. Serial No. 434,319. 12 Claims. (Cl. 246—41.)



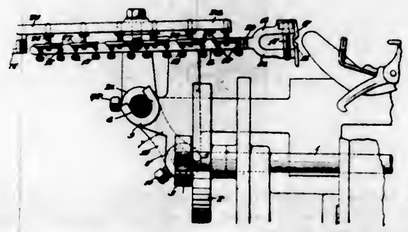
1. Railway traffic controlling apparatus comprising governing means on a train arranged normally to retard the train except when affected by energy received from the trackway, a portion of track equipped with means for supplying energy to the train and a portion of track not so equipped, electrical means adjacent the entrance end of the unequipped portion of the track for rendering said governing means ineffective to retard the train while the latter is passing through the unequipped portion of track, and mechanical means adjacent the exit end of said unequipped portion of track for restoring said governing means to its control of the train.

1,423,863. FOLDING CRATE. JOHN W. LUCABAUGH, near Hanover, Pa. Filed Sept. 16, 1921. Serial No. 501,128. 2 Claims. (Cl. 217—48.)



1. A folding crate including vertically pivoted side and end members in which one set of members is provided with pivot posts at their ends and the other set of members has horizontal pivot members extending over the ends of said posts, said pivot posts and members having complemental pivot recesses formed therein, pivot elements positioned between the ends of said pivot posts and the ends of said pivot members and extending into the recesses, and bottom and cover members for the crate.

1,423,864. COMBINED YARN CLEARER AND TENSION DEVICE. JOHN O. MCKEAN, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1921. Serial No. 457,728. 16 Claims. (Cl. 28—67.)



12. A combined yarn clearer and tension, comprising a plurality of pairs of horizontally disposed parallel knives, and a weighted disc resting on each pair of knives.

1,423,865. GARDEN TOOL. ARTHUR MILLER, Columbus, Ohio. Original application filed June 13, 1919, Serial No. 303,963. Divided and this application filed May 4, 1921. Serial No. 466,819. 5 Claims. (Cl. 55—39.)



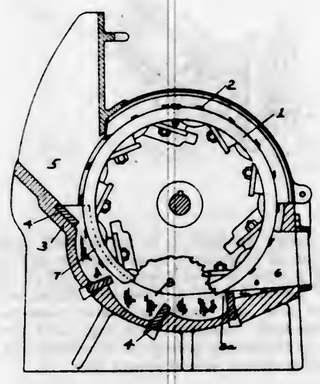
5. A garden tool having a clip arranged to engage the blade of a hoe, said clip comprising rigid members bent to form approximately an angle of 90°, each of said members having a yielding member bent to form a resilient bight between it and its respective rigid member.

1,423,866. BONE RESECTOR. FRANK E. MILLER, New York, N. Y. Filed Apr. 24, 1918. Serial No. 230,421. Renewed Dec. 22, 1921. Serial No. 524,295. 5 Claims. (Cl. 128—318.)



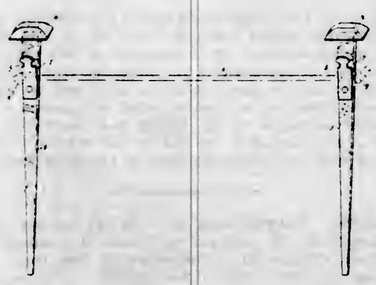
3. A resector comprising, a pair of blunt edged operating members; relatively pivotable necks for constraining said members to move in separated parallel planes; and a pair of manually operable handles for effecting the operative movement of said members.

1,423,867. CUTTING MACHINE. PHILIP S. MITTS and WILLIAM J. WINSTON, Saginaw, Mich., assignors to Mitts & Merrill, Saginaw, Mich., a Corporation of Michigan. Filed Dec. 27, 1921. Serial No. 525,204. 4 Claims. (Cl. 83—6.)



1. In a cutting machine including a casing having a knife-carrying drum rotatably mounted therein, stationary knives disposed around the lower periphery of the casing, an inlet at one side of the casing, and an outlet at the opposite side of the casing, a lateral retaining wall at each side of said casing, said wall extending from the inlet around the interior of the casing to the outlet, the distance between said walls slightly greater than the length of said drum, a scraping device carried by the rim of said drum and adapted to prevent material packing between the end of said rim and the face of said retaining wall.

1,423,868. LINE HOLDER. HENRY MONAHAN, Meriden, Conn. Filed Apr. 13, 1922. Serial No. 552,405. 3 Claims. (Cl. 24—115.)



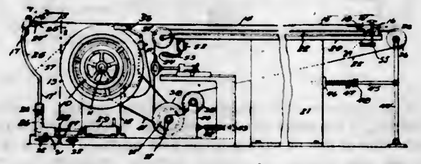
1. A line holder, comprising a pin formed in one side with a notch, and a finger secured to the notched side of the pin and projecting upward beyond the upper end of the notch.

1,423,869. ATTACHMENT FOR TOBACCO PIPES. JOSEPH CARROLL MONMONIER, Catonsville, Md. Filed Mar. 18, 1921. Serial No. 453,249. 2 Claims. (Cl. 131—12.)



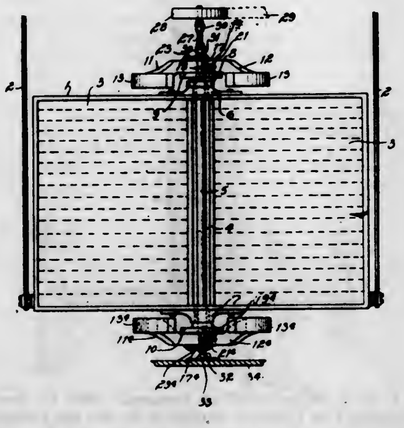
2. An attachment for tobacco pipes consisting of a wire coiled into a helix of oval form having laterally extended elastic fingers which bear against the wall of the bore, said attachment constituting a grate or grid adapted to rest on the bottom of the bowl cavity.

1,423,870. TIRE-MAKING MACHINE. FREDERIC C. MORTON, New Haven, Conn. Filed Oct. 7, 1918. Serial No. 257,227. 14 Claims. (Cl. 154—10.)



1. In a tire building machine, the combination of spaced stretching devices, means including dummy strips for connecting the ends of a strip of fabric to said spaced devices, and means to space said devices farther apart and thereby effect a stretching of the strip of fabric.

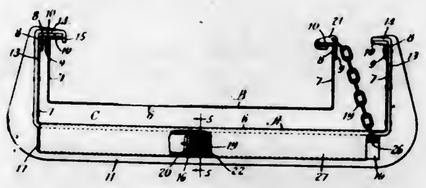
1,423,871. DRIVING MECHANISM FOR PRODUCING GYRATORY MOTION. BURTON NEAL, St. Louis, and GEORGE HOWARD HERRSAND, Kinloch, Mo. Filed Jan. 18, 1922. Serial No. 530,089. 4 Claims. (Cl. 74—14.)



1. Driving mechanism for producing a gyratory movement of a suspended body, comprising a driven shaft on

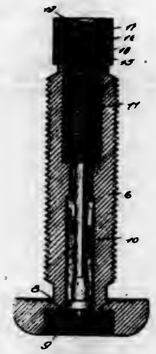
which said body is rotatably mounted, a plate fixedly secured on the end of said shaft, weighted arms pivotally mounted at one end on said plate eccentrically of said driven shaft and having geared relation at such pivoted ends, said weights being adapted to be thrown outward under the action of centrifugal force when said plate and driven shaft are rotated, a socket member movable by said arms simultaneously with and in the general direction of the movements of said weights, and a vertically disposed drive shaft having a driving connection at its lower end with said socket member for imparting rotation to said plates and the parts connected with and mounted thereon.

1,423,872. COAL CHUTE. ENOCH E. NEAL, Malden, Mass. Filed Mar. 23, 1921. Serial No. 454,825. 12 Claims. (Cl. 193—40.)



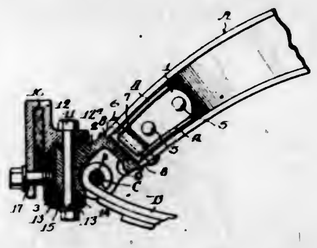
1. A device of the character described having, in combination, a plurality of chute sections, a tube fast to the underside of one of said sections and provided with a slot at one end thereof, a flexible member normally located within said tube, a portion thereof being adapted to be withdrawn therefrom and fastened within said slot, means located at the outer end of said flexible member adapted to be attached to another of said sections and means to pull said flexible member into said tube when the same is released from said last-mentioned section and removed from said slot.

1,423,873. VALVE DEVICE FOR PNEUMATIC TIRES. JOSEPH N. NEWSOM and HARRY E. HARDER, St. Louis, Mo., assignors to Newsom Valve Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 5, 1920. Serial No. 356,543. 4 Claims. (Cl. 152—12.)



1. In a device for filling pneumatic tires an element comprising an abutment adapted to fit into the housing of the tire valve for engagement with the stem of a chuck valve to positively open the chuck valve and to limit the depression of the stem of the tire valve.

1,423,874. AUTOMOBILE BUMPER-ATTACHING HANGER. WILLIAM G. PANCOAST, Wilmette, and WILLIAM J. GROTENHUIS, Chicago, Ill., assignors, by mesne assignments, to Bifiex Products Company, a Corporation of Delaware. Filed Sept. 9, 1921. Serial No. 499,473. 7 Claims. (Cl. 293—55.)



4. A hanger adapted to be permanently connected to the end of an automobile frame member, and comprising a shank portion, a head beyond the end of said frame member provided with a forwardly facing and curved abutment face, and bumper attaching members adapted to be pivotally connected with said head through the medium of interfitting bosses and depressions, and a pivot bolt, and to engage said abutment face.

1,423,875. RIM TOOL. PETER R. PETERSON, Salt Lake City, Utah, assignor to Ideal Rim Tool Co., Jacksonville, Fla., a Corporation of Florida. Filed June 29, 1921. Serial No. 481,315. 3 Claims. (Cl. 157—1.)



1. A rim tool, comprising a pair of rim engaging clamps, a lever for pivotal engagement on one of said clamps, and having a portion thereof adapted to bear against the inner face of one end of a rim while the clamp on which it is pivotally engaged holds the other end of the rim, coacting links pivoted together and to said clamps, a crank member journaled in one of the first mentioned links, and a link pivoted at one end to one of said first mentioned links and at the other end to the crank member.

1,423,876. POPPET VALVE. CARL PFANSTIEHL, Highland Park, Ill., assignor to Pfanstiehl Company, Inc., North Chicago, Ill., a Corporation of New York. Filed July 25, 1918. Serial No. 246,633. 1 Claim. (Cl. 123—188.)

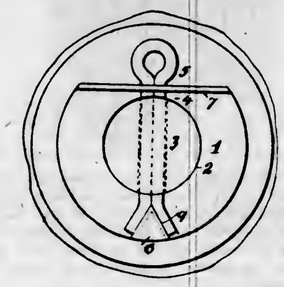
An exhaust valve for internal combustion engines including a stem having two parts formed of metals having differing co-efficients of expansion, the union between the metals being so positioned between the ends of the stem as to provide a total stem expansion which, under the temperature at which the stem operates, substantially

equals the expansion of the valve housing under the temperature at which it operates, whereby the clearance be-



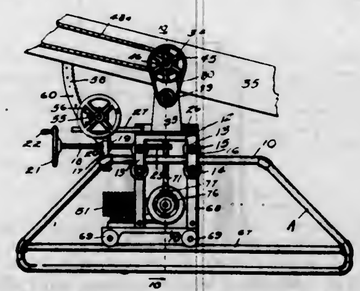
tween the end of the valve stem and its tappet will not be materially altered through changes in temperature.

1,423,877. WASHER FOR MINE-CAR WHEELS. ROBERT F. PHILLIPS and LOUIS J. MCCLOSKEY, Pittsburgh, Pa., assignors to Phillips Mine & Mill Supply Co., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 30, 1922. Serial No. 532,723. 3 Claims. (Cl. 295—50.)



1. A washer for mine car axles, provided with a lug on its face adapted to fit between the limbs of the linch or cotter pin, by which the wheel is retained on the axle and to maintain such limbs in divergent relation and interlock the pin and washer, the washer being provided with means to prevent lateral movement in relation to the pin and axle.

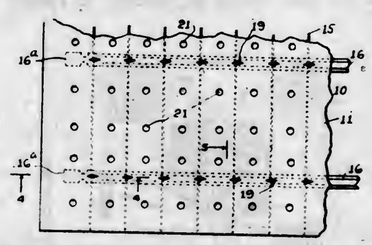
1,423,878. LOADER DEVICE. LAURENS DAY POTTER and THOMAS CHARLES NOLAN, Emmetsburg, Iowa. Filed July 19, 1920. Serial No. 397,283. 13 Claims. (Cl. 198—118.)



1. A loader device comprising a main frame, an auxiliary frame mounted thereon, a vertical shaft rotatably mounted in said auixilary frame, a conveyor frame mounted on said auxiliary frame for rotation about said vertical shaft as an axis, a conveyor member mounted in said conveyor frame, said conveyor member being so arranged that its center of gravity will at all times be substantially over said vertical shaft, an engine mounted on said auxiliary frame, and means for transmitting power to said conveyor member from said engine through said vertical shaft.

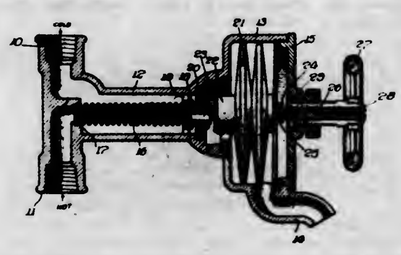
18. A loader device comprising a main frame, an auxiliary frame mounted thereon, a vertical shaft rotatably mounted in said auxiliary frame, a conveyor frame mounted on said auxiliary frame for pivotal movement around said vertical shaft, means whereby said conveyor frame will be held against any tendency to tip with relation to said auxiliary frame, said means including a sleeve surrounding the vertical shaft and passing through the auxiliary and conveyor frames, and lock nuts on the ends of said sleeve for holding the two frames securely together and still allow one of them to revolve freely in relation to the other, a horizontal shaft mounted in said conveyor frame, a conveyor member mounted thereon for pivotal movement in a vertical plane around said horizontal shaft as an axis, a supporting platform suspended below the auxiliary frame, an engine mounted thereon, and means operatively connecting the engine to the conveyor member through the said vertical and horizontal shafts, whereby motion may be transmitted thereto.

1,423,879. PLASTER SUPPORT FOR WALLS. STEPHEN J. POTTER, Syracuse, N. Y., assignor to Sheet Lathing Corporation, Syracuse, N. Y., a Corporation of New York. Filed Mar. 11, 1921. Serial No. 451,624. 4 Claims. (Cl. 72—116.)



1. A paper wall board comprising a strip of paper of laminated structure having transverse strengthening ribs spaced apart thereon and attached thereto, each rib being formed transversely into an arch through the greater part of its length, but flattened at the ends.

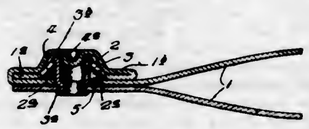
1,423,880. WATER MIXER. FRED W. POWERS, Chicago, Ill., assignor to The Powers Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed June 13, 1919. Serial No. 303,871. 9 Claims. (Cl. 236—12.)



6. In a fluid controller, the combination of a casing having a rigid inlet tube and a telescopic tube arranged

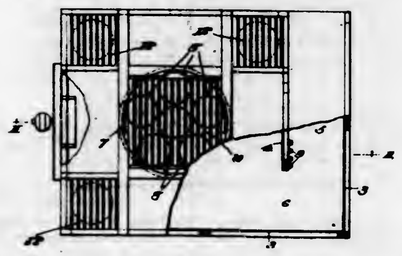
within the rigid tube, seats at the terminal points of the rigid and telescopic tubes, a thermostat within the casing, and a valve member carried by the thermostat, said valve member being adapted to sequentially contact said seats, substantially as described.

1,423,881. SEAL. HARRY R. ROGERS, Chicago, Ill., assignor to Chicago Car Seal Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1921. Serial No. 478,560. 4 Claims. (Cl. 292—322.)



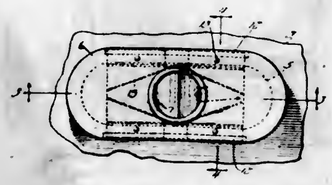
1. A seal comprising a shackle-strip, a locking stud carried by one end thereof, and a locking socket carried by the other end thereof, the metal of said strip being folded on itself so as to reverse the position of said socket and the double ply of metal thus formed being then folded on the adjoining portion of the strip, said adjoining portion being provided with a perforation to admit the locking stud to the socket, said stud and socket being located on opposite sides of the strip.

1,423,882. COLOR-MATCHING ROOM. GEORGE S. RADFORD, New York, N. Y., assignor, by mesne assignments, to Central Union Trust Company of New York, New York, N. Y., a Corporation of New York, trustee. Filed Nov. 23, 1921. Serial No. 517,265. 12 Claims. (Cl. 240—1.)



1. A color matching room comprising a matching chamber having an entrance for the user, a source of artificial daylight in said chamber, and a tubular light shield surrounding the artificial daylight source and of sufficient length to protect the eyes of the user.

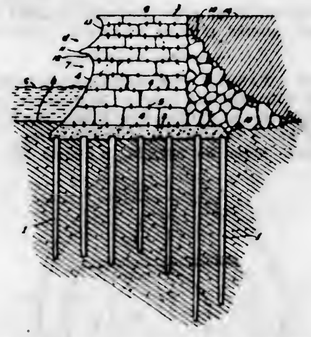
1,423,883. BEE ESCAPE. HERBERT D. ROGERS, Lewistown, Ill. Filed May 8, 1920. Serial No. 379,693. 5 Claims. (Cl. 6—4.)



1. A bee escape comprising a sheet metal base plate, a channel member comprising bottom and side walls forming with said base plate a longitudinal passage open at one end, there being provided an inlet opening through said base plate and flanges along the edges of said channel members having flatwise contact with the marginal portions of said base plate, the edges of said flanges and base plate being crimped together.

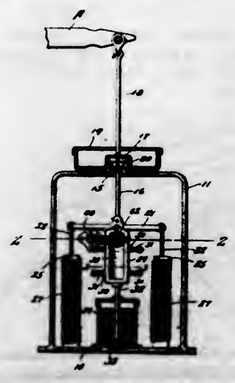
3. A bee escape comprising a sheet metal base plate provided with inturned marginal edges along opposite sides thereof, and a channel shaped plate comprising bottom and side walls, the latter having integral marginal flanges, bearing along the edges of said base plate and secured thereto by the crimping of the inturned edges of the base plate over the edges of the flanges.

1,423,884. OCEAN PIER. ALLAN CYRUS RUSH, Los Angeles, Calif., assignor of one-half to Henry L. Miller, Glendale, Calif. Filed Feb. 10, 1920. Serial No. 357,681. 4 Claims. (Cl. 61—49.)



1. A pier wall having an outer face provided with a bead, said face sloping from its base upward and inward toward the bead and from the ridge of the bead downward to said upwardly and inwardly sloping face, the upper face of the bead sloping upwardly and inwardly and a guard extending outwardly to intercept the splash and slosh.

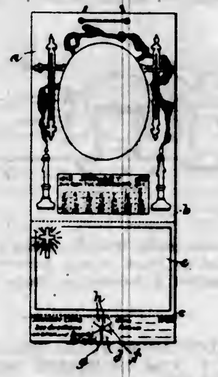
1,423,885. WEIGHT INDICATOR FOR SCALES. HENRY C. SCHAPER, St. Louis, Mo., assignor to The General Automatic Scale Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 24, 1920. Serial No. 360,571. 10 Claims. (Cl. 265—39.)



1. The combination with a weighing scale, of a vertically movable weight indicia bearing member connected to and adapted to be actuated by a movable part of the scale, a horizontally disposed lever connected to said
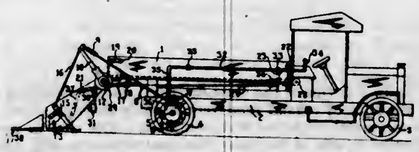
weight indicia member, means connected to said horizontal lever for yieldingly resisting the movement of said member in one direction, a screen, and means including a source of light and lenses for projecting the weight indicia onto said screen.

1,423,886. REMITTANCE REMINDER. HENRI M. STEWART, New York, N. Y. Filed June 8, 1921. Serial No. 476,106. 4 Claims. (Cl. 229—62.5.)



1. A new article of manufacture consisting of a remittance reminder formed of heavy paper stock including therein a main section having suitable matter impressed thereon, and a coin receiver section formed integrally with said main section, said paper stock having a weakened line extending across it whereby said coin receiver section is separable from said main section, said coin receiver section having an opening therein adapted to receive a coin and means adjacent said opening for retaining a coin therein.

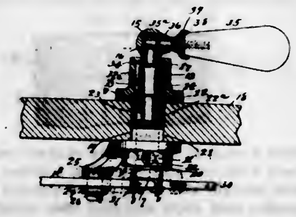
1,423,887. TRUCK LOADING AND UNLOADING MECHANISM. RICHARD F. STEWART, Briarcliff, N. Y. Filed Mar. 6, 1920. Serial No. 363,789. 10 Claims. (Cl. 214—81.)



1. The combination with a motor driven vehicle, of a scoop pivotally mounted thereon, and power driven means for moving said scoop on its pivotal axis from excavating position to a position in which the excavated material is dumped into said vehicle, said scoop moving means embodying ground engaging levers for initiating the raising of the scoop.

1,423,888. FLUSHING MECHANISM. OSCAR H. THELEN, Kenosha, Wis., assignor to Frost Manufacturing Company, Kenosha, Wis., a Corporation of Wisconsin. Filed Apr. 7, 1919. Serial No. 288,106. 10 Claims. (Cl. 4—5.)

1. In leverage mechanism, for closet tanks the combination with a fixed bearing, of a divided rock shaft journaled thereon, means cooperating with said fixed bearing for holding the shaft sections in fixed adjustment, a handle secured to one part of the shaft, said part adapted to



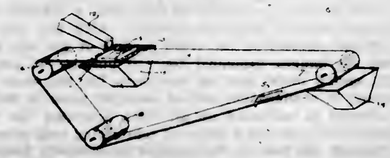
engage the other part of the shaft in longitudinally adjustable contact and transverse angular non-rotative engagement with each other and means whereby the rock shaft is held in the bearing.

1,423,889. POWER CABLE-REELING MECHANISM FOR SELF-PROPELLED MACHINES. JOHN S. TOWNSEND, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed Apr. 13, 1921. Serial No. 461,164. 4 Claims. (Cl. 191—12.)



2. In mechanism of the class described, a rotatable shaft, a cable reel carried by the shaft, a support for the shaft, a cable connected to the reel leading through said support to the other side thereof, and a sleeve enclosing the shaft and cable at said support rotatable in said support, for the purposes set forth.

1,423,890. SAMPLING APPARATUS. ROBERT K. WARNER, West Haven, Conn. Filed July 15, 1920. Serial No. 396,433. 1 Claim. (Cl. 73—21.)

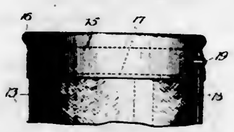


The combination with a delivery device and a receiver in line therewith and spaced therefrom, of a longitudinally-movable conveyor which carries material from the delivery device to the receiver, said conveyer formed with an opening of predetermined area for the passage through it of a sample of the material carried thereon.

1,423,891. GOLF BAG. JAMES S. WHITE, Chicago, Ill., assignor to Allied Golf Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1921. Serial No. 446,683. 1 Claim. (Cl. 150—1.5.)

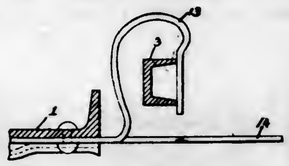
In a golf bag in combination, a top comprising a ring, a strip of rawhide doubled about said ring, flexible body material secured between the portions of said rawhide, stays secured to said body portion and extending between

the portions of said rawhide, rivets passed through said rawhide and said stays, a bottom comprising an end member having a downward turned annular flange, a strip



of rawhide formed in an annular channel enclosing said flange, said body material extending between the annular flange and rawhide, and rivets passed through the rawhide and engaging said stays and said body material.

1,423,892. BRAKE-BEAM RELEASE AND SUPPORT. CHARLES HAINES WILLIAMS, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Original application filed July 15, 1920, Serial No. 396,438. Divided and this application filed June 16, 1921. Serial No. 478,137. 3 Claims. (Cl. 188—213.)



3. A third or fourth point support for brake beams comprising a member secured to the car truck and extending under the beam, and a retractive means integral with said support and engaging the beam to force it to a released position.

1,423,893. HIGHWAY ROAD. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Aug. 11, 1920. Serial No. 402,864. 11 Claims. (Cl. 238—4.)



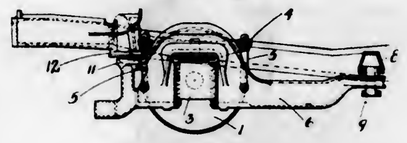
1. In a structure of the class described, a channel rail laid longitudinally with the roadway, with the web of the channel furnishing the tread surface of the rail and having its flanges expanded for the purpose of giving depth, saving metal and for apertures for the entry of concrete; in combination with a concrete mass in which the channel is embedded on all sides excepting the top surface of the web and a series of reinforcing rods extending through the web of the channel transversely binding the concrete on either side of the channel.

1,423,894. BUMPER FOR AUTOMOBILES. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill. Filed Oct. 3, 1921. Serial No. 504,842. 9 Claims. (Cl. 293—55.)



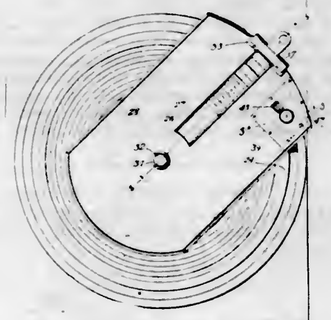
5. In a bumper beam, the combination with two vertically spaced parallel bars having their bodies approximately in a vertical plane and their end portions rearwardly curved and united in a medial horizontal plane, of a third parallel bar lying in the rear of the vertical space between the front bars and connected at its ends with the corresponding ends of the front bars, the three bars being connected to each other and to the car frame members, with which they are in substantial alinement.

1,423,895. TRAILER TRUCK FOR LOCOMOTIVES. WILLIAM E. WOODARD, Forest Hills, N. Y. Filed Jan. 14, 1922. Serial No. 529,227. 6 Claims. (Cl. 105—174.)



1. A locomotive trailer truck including a frame adapted to be supported by truck wheels between its ends and adapted to support a locomotive frame at both of its ends.

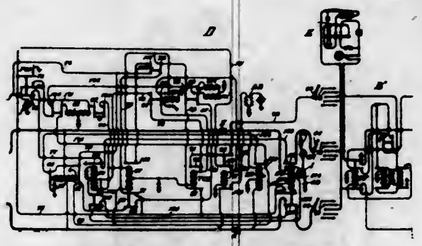
1,423,896. CALCULATING RULE. WILLIAM L. WYCKOFF, Brooklyn, N. Y. Filed Oct. 10, 1916. Serial No. 124,833. 6 Claims. (Cl. 235—84.)



1. In a device of the class described, the combination of a plurality of coaxial relatively movable circular scales, a scale coaxial with the first-mentioned scales and in fixed relation to one of the same, the graduations on said scale representing and bearing numbers between two integral powers of ten and being divided into equal parts, said numbers being divided into periods with those numbers on the same one of said equal parts having the same number of digits in the left hand period, and means for alining the graduations on the relatively movable scales.

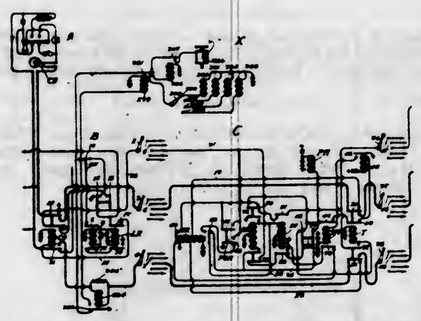
1,423,897. CONNECTOR SWITCH. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 1, 1917. Serial No. 183,870. 34 Claims. (Cl. 179—18.)

1. A telephone system including a called subscriber's line, a connector switch for extending a connection to said called subscriber's line, a test circuit for said connector switch, a test control relay and a test relay for said connector switch, means for momentarily energizing said test control relay, contact control by said test control relay for connecting said test relay to a test contact of the called



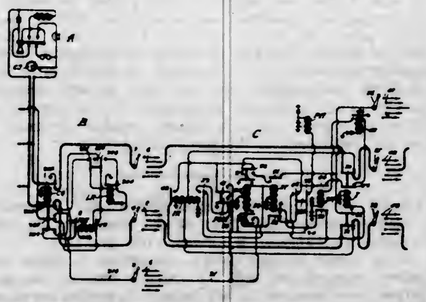
line, and means controlled by said test relay if said called line is busy to interrupt said test circuit.

1,423,898. AUTOMATIC TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed June 6, 1918. Serial No. 238,461. 23 Claims. (Cl. 179—9.)



1. A telephone system including subscribers' telephone lines provided with calling devices, switching means controlled by said calling devices for interconnecting said subscribers' telephone lines, and recording devices including means for automatically and permanently recording the numbers called by the calling devices.

1,423,899. AUTOMATIC TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed July 5, 1918. Serial No. 243,292. 21 Claims. (Cl. 179—18.)



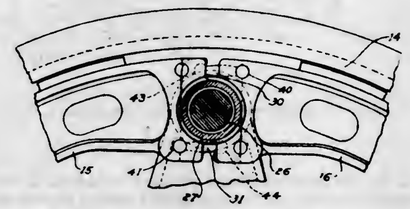
1. A telephone system including a trunking switch, a motor magnet for said trunking switch, a line relay for controlling said motor magnet, off-normal contacts for controlling the circuit of said line relay, a cut-off relay for said trunking switch, and a circuit for said cut-off relay including contacts of said line relay and contacts of said motor magnet.

1,423,900. TENNIS RACKET. GEORGE AGUTTER, Forest Hills, N. Y. Filed Jan. 6, 1921. Serial No. 435,333. 5 Claims. (Cl. 46—24.)



1. In a racket, the combination with a wooden head frame and depending handle of a reenforcing metallic binding engaged with and surrounding the outer periphery of said head-frame, the ends of said binding being engaged with and secured to the sides of said handle, said binding having on its opposite sides inwardly extending marginal skirts overlapping the sides of said head frame, and a longitudinally extending centrally disposed depressed rib on the inner side of said binding, said rib being countersunk in the outer periphery of said head frame.

1,423,901. BRAKE MECHANISM. WALTER C. BAKER, Cleveland, Ohio, assignor to Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 21, 1919. Serial No. 284,083. 4 Claims. (Cl. 188—78.)

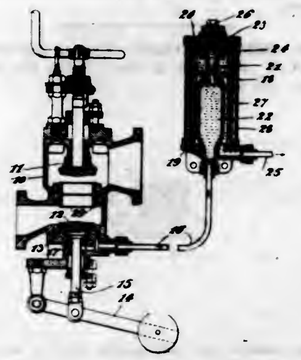


2. In brake mechanism, the combination of a brake drum, brake shoes each pivoted at one end and having their other ends in proximity, and means for separating said other ends of the brake shoes comprising a rotatable member having lever arms thereon and compression members cooperating with said lever arms and the ends of said brake shoes, each of said members being at all times substantially perpendicular to the line joining its point of contact with the brake shoe to the pivot point of the brake shoe.

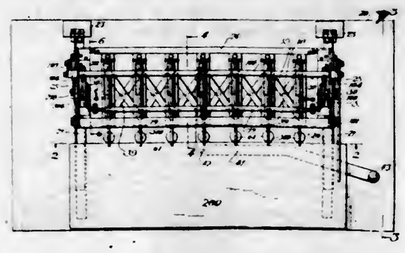
1,423,902. TESTING APPARATUS FOR INDICATING LEAKS. GUSTAV BAUER, Hamburg, and FRITZ KRAMER, Blankenese-Dockenhuden, near Hamburg, Germany. Filed Mar. 31, 1922. Serial No. 548,482. 5 Claims. (Cl. 137—77.)

1. A leak indicating apparatus for submarine fuel oil tanks maintained at sub-pressure, including a conduit for

connecting the tank to the apparatus for establishing and maintaining the sub-pressure, a valve for closing said conduit, a normally closed by-pass around said valve, and means in said by-pass for indicating the passage of water therethrough.



1,423,903. MARKING MACHINE. EMIL T. BENSON, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,213. 9 Claims. (Cl. 33—190.)

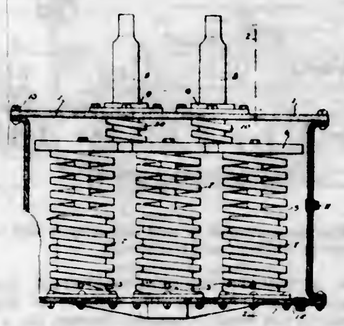


1. In a marking machine, a plurality of marking devices, means for equally spacing the marking devices through any predetermined distance within the range of the machine, each of the marking devices including a marking finger, a work-supporting table, the marking fingers normally lying to one side of the work-supporting table, and means for simultaneously moving the marking fingers over work supported on the work-supporting table and bringing the same into contact with such work.
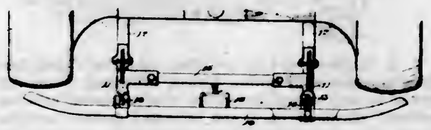
1,423,904. SHOCK ABSORBER. OGDEN F. BLYBURG, St. Joseph, Mich. Filed Feb. 16, 1921. Serial No. 445,278. 12 Claims. (Cl. 188—88.)

1. A shock absorber comprising a plunger, a chamber in which said plunger is arranged to reciprocate, forming a dash pot, and spring means held in place by the dash pot and adapted to yieldingly hold said plunger in normal position.

4. In a shock absorber, a housing to contain a liquid, a cylinder in said housing, a plunger in said cylinder, with a passage connecting the cylinder with the housing, so that the liquid flows back and forth between the housing and the chamber, a coil spring arranged for compression on the exterior surface of said cylinder, means connected to said plunger to bear upon said spring, so that the spring is compressed when the plunger expels the liquid from said chamber with clearance all around to prevent the spring from rubbing on the housing, a stuffing box on the housing, and a rod connected to said plunger to slide in said stuffing box.



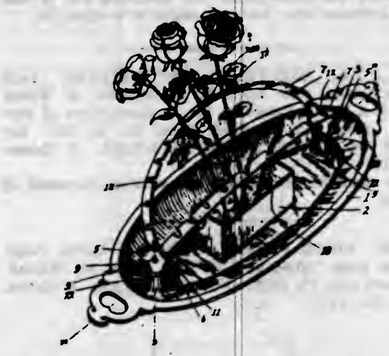
1,423,905. IDENTIFICATION FENDER FOR VEHICLES. LEWIS P. BRADDY, San Francisco, Calif. Filed Jan. 4, 1922. Serial No. 526,980. 6 Claims. (Cl. 116—82.)



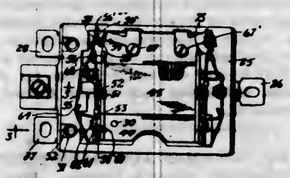
3. In a vehicle, in combination with a bumper bar yieldingly held with respect to the frame of the vehicle, of an identification plate holder fixed to said bumper bar, a movable retaining member pivotally connected to said holder and adapted to cooperate therewith in supporting an identification plate under normal conditions, means for sealing said retaining member in position, a cross-bar fixed to the frame of the vehicle at the rear of the bumper, and a releasing member fixed on said cross bar and adapted to engage said movable retaining member when movement is imparted to the bumper by force of impact, the engagement causing breakage of the seal and release of the identification plate.

1,423,906. FLOWER RECEPTACLE. JOSEPHINE BESTTSCHNEIDER, St. Paul, Minn. Filed Feb. 23, 1922. Serial No. 538,666. 9 Claims. (Cl. 47—18.)

1. A flower holding device, comprising a liquid container, supports for bows on opposite sides of said container, bows mounted on said supports to incline outwardly to opposite sides thereof, said bows extending between said supports and adapted to loosely embrace the stems of flowers extending from said container to hold the stems in spaced order, the mounting of said bows including frictional pivotal connections, between the bows and said supports whereby to enable said bows to be swung toward each other and be frictionally held at various positions on said supports.



1,423,907. ELECTRIC CONTROLLING APPARATUS. FREDERIC H. BULLINGER, Yonkers, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed Aug. 18, 1917. Serial No. 186,863. 15 Claims. (Cl. 200—90.)



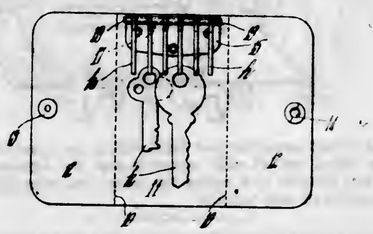
4. In a circuit controlling armature, a permeable member with an extension at one side, a resilient sheet metal member fastened to the permeable member and having an extension adjacent to the first mentioned extension and carrying a contact button, these two extensions having interengaging stops whereby the button may be moved over a definite limited range relatively to the permeable member, said sheet metal member having another extension on its opposite side adapted to be fastened to a fixed support and thus afford a hinge connection thereto for the permeable member and being further extended and bent around the permeable member and engaging the same to act as a retractile spring therefor.

1,423,908. ROBE FOR CHILDREN'S GOCARTS AND INVALID CHAIRS. EDITH RUSSELL CHURCH BURCHARD, Little Compton, R. I. Filed Apr. 6, 1922. Serial No. 550,249. 6 Claims. (Cl. 296—81.)



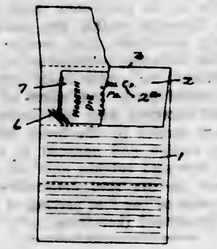
1. An adjustable robe having side openings substantially its whole length, combined with a foot-pocket made integral therewith, the upper edge of one of the portions of said robe forming a suitable case for the reception of a belt, and a belt for encircling the body contained in said case and freely removable therefrom.

1,423,909. KEY CASE. WARNER R. BUXTON, Longmeadow, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a Corporation of Massachusetts. Filed May 20, 1920. Serial No. 382,866. 7 Claims. (Cl. 150—40.)



6. A case for keys and the like, comprising, a foldable supporting strip, a member secured thereto and affording a pivotal support, and a plurality of snap hooks pivotally supported from the latter in longitudinally spaced relation and for swinging movement into and out of the case in arc-like paths of substantially constant radius, each of said hooks comprising a member having one end so engaged with said support as to permit swinging movement and restrain radial movement of the hook relative thereto and having a part extending away from such end and at a distance therefrom bent backwardly upon itself and extending in substantially converging relation to said part until in abutment therewith, said backwardly bent portion being then bent away from said part and terminating at a short distance therefrom.

1,423,910. LETTER SHEET. HOWARD B. CAMPBELL, Erie, Pa. Filed Oct. 6, 1920. Serial No. 414,901. 11 Claims. (Cl. 120—74.)

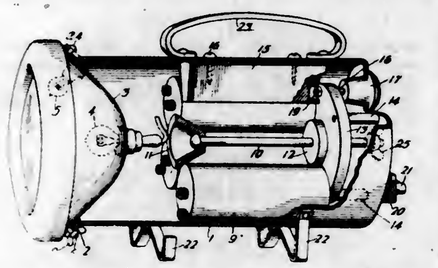


4. A letter sheet having a letter head formed on the outer face of a fold extending downwardly from the top of the sheet and display matter arranged on the underside of the fold and at the top of the sheet next the fold whereby when the fold is turned back the matter on the fold continues on to the sheet.

1,423,911. PORTABLE ELECTRIC LANTERN. ALLEN D. CARDWELL, Rockville Center, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 27, 1920. Serial No. 384,534. 10 Claims. (Cl. 240—8.5.)

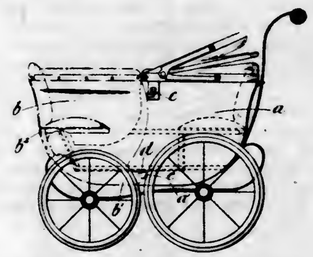
7. An electric lantern comprising a container having an open and a closed end, a battery mounted therein

and spaced from the ends of said container, a headlight mounted within the open end of said container, and a tail light projecting through an opening formed in the closed



end of said container and fitted within the space between the closed end of said container and the adjacent side of the battery, and means for connecting said lights in circuit with said battery.

1,423,912. CONVERTIBLE PERAMBULATOR AND PUSH CHAIR. WALLACE ERNEST CARTER, Dover, England. Filed Apr. 10, 1922. Serial No. 551,350. 1 Claim. (Cl. 296—63.)



A convertible perambulator and push chair including in combination with the main body having a seat, a detachable foot section also having a seat adapted to rest on the front edge of the main body while the rearwardly projecting sides telescope within the main body, means for holding said detachable foot section in place consisting of catches including socketed parts carried by the main body adjacent the upper front edge thereof and hook portions carried by the rear edges of the detachable foot section and engaging with said socketed parts, and a transverse rod carried by the lower rear edge of the detachable foot section and adapted to engage beneath the main body, the said catches and rod cooperating to prevent the seat in the said detachable section from rocking on the edge of the foot section of the main body and becoming disengaged therefrom.

1,423,913. FUEL-SUPPLY APPARATUS FOR INTERNAL-COMBUSTION ENGINES. WILLIAM C. CARTER, St. Louis, Mo. Filed Dec. 16, 1918. Serial No. 266,908. 21 Claims. (Cl. 158—36.)

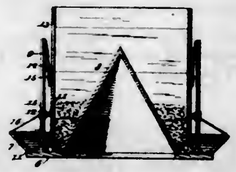


1. A fuel supply apparatus for internal combustion engines, comprising a diaphragm pump, a pipe communicating with the pressure chamber of the pump and with a means that creates pressure in said pipe intermittently, and automatic means for admitting air to said pipe to scavenge same when the engine is in operation.

1,423,914. ELECTRICAL ARC WELDING. JACK CHURCHWARD, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., a Corporation of New York. Filed Jan. 14, 1920, Serial No. 351,358. Renewed Feb. 3, 1922. Serial No. 533,981. 9 Claims. (Cl. 219—8.)

1. An electrode for electric arc welding composed of tungsten.

1,423,915. STOCK FEEDER. ARTHUR J. DAVIS, Cedar Rapids, Iowa. Filed Apr. 17, 1920, Serial No. 374,545. Renewed June 15, 1922. Serial No. 568,583. 4 Claims. (Cl. 119—53.)



1. In a stock-feeder, a continuous quadrangular trough, an inside pyramid to divert food thereto, standards adjacent to the corners of the pyramid, a magazine surrounding said pyramid and spaced away therefrom at the bottom, and flexible and adjustable means for suspending the magazine, connecting each corner thereof with an adjacent standard.

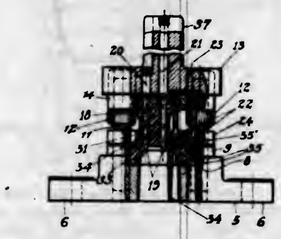
1,423,916. ONE-MAN AUTOMOBILE TOP. JAMES DAVIS, Gananoque, Ontario, Canada. Filed Apr. 18, 1921. Serial No. 462,293. 3 Claims. (Cl. 296—116.)



1. The combination with an automobile cover, of a back bow pivotally mounted at the lower end to an automobile, a bow pivotally mounted on the back bow intermediate of the length thereof, and formed with an internal apertured lug, a bracket on the said bow having lugs, a front bow having its inner end formed with a flanged extension, and T-shaped in cross section, levers connecting the flanged extension of the front bow to the said bracket lug, offset links pivotally mounted on one of the levers, the said links being provided with elongated slots, pins on the other lever engaging the slots, short bows carried by the links, and a pin on one of the levers designed to engage the apertured lug on the first said bow in collapsed position of the top.

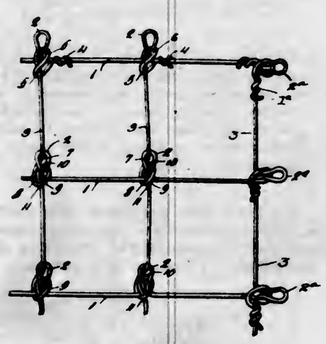
1,423,917. PUNCH AND DIE SET. SIDNEY DIAMANT, New York, N. Y. Filed Apr. 23, 1921. Serial No. 464,045. 3 Claims. (Cl. 164—29.)

1. A punch and die set comprising a die holder, a die blank arranged upon said holder, a stripper plate adapted to be secured upon the die blank in superposed relation thereto, said die holder having spaced openings, a punch holder, liner pins carried by the punch holder and engaged in said spaced openings, a punch plate secured to the punch holder, a punch mounted in the punch plate and adapted to operate through the stripper plate, said stripper plate having a longitudinally extending recess in its bottom face through which the work piece is adapted to



be moved, an automatic stop lever pivotally mounted intermediate of its ends and having one end movable through the stripper plate and across said recess to limit the movement of the work piece in said recess and an adjustable screw carried by the punch holder to engage the other end of the lever and displace the same from its normal position to permit of the adjustment of the work piece in said recess.

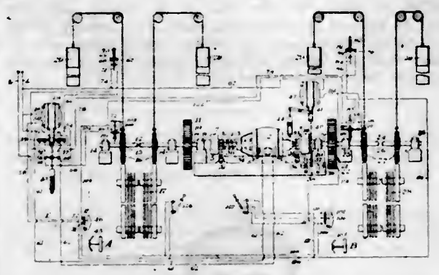
1,423,918. BED-BOTTOM FABRIC. EDWARD DREFS, Milwaukie, Oreg. Filed Dec. 31, 1919. Serial No. 348,558. 1 Claim. (Cl. 245—8.)



A wire fabric embodying crossed wires, one of said wires being bent to provide a loop, a second wire threaded through the loop from one side thereof to the other to engage opposite sides of the loop, said second strand of wire being extended toward the mouth of the loop and bent to form a coil therearound, said second strand of wire being then extended over the first wire and through said coil between portions of the loop and coil to form a knot around the mouth of the loop to close the same.

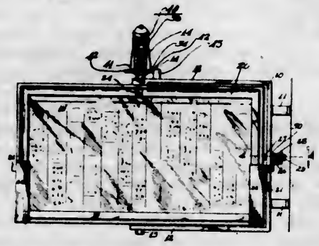
1,423,919. AUTOMATIC GATE MECHANISM FOR ELEVATOR AND MINE SHAFTS. CHARLES DRUM, California, Pa. Filed Dec. 19, 1919. Serial No. 346,036. 14 Claims. (Cl. 187—52.)

6. An operating mechanism for a plurality of gates, for elevator cages, comprising a motor, means for driving one of said gates by the motor, means for driving another of said gates by the motor, circuit closing devices actuated by the cages for controlling the operation of the motor, means controlled by one of said circuit closing devices for operatively connecting the driving means for



one of said gates to the motor, and means for preventing the operation of said motor until after said connection has been made, substantially as described.

1,423,920. DEVICE FOR HOLDING ENGINEERS' TIME TABLES. VERN W. DUFF, Moberly, Mo. Filed Feb. 7, 1921. Serial No. 443,170. 6 Claims. (Cl. 40—105.)



1. In a device of the class described, a bracket, a frame pivoted therein, one of said pivots comprising a pin rigidly secured to said frame, a lamp bracket pivoted on said pin, means for frictionally engaging said bracket and said pin so that as the said frame is rotated, the said bracket will be rotated.

1,423,921. MOLD GUIDE FOR ARTIFICIAL TEETH. CHARLES J. DUFFY, Yonkers, N. Y., assignor to The Dentists' Supply Company, a Corporation of New York. Filed Aug. 11, 1919. Serial No. 316,524. 5 Claims. (Cl. 211—34.)



2. The invention according to claim 1, wherein the detachable teeth supporting frames are hinged in parallel relation at a distance apart, so as to avoid direct contact but sufficiently close that the artificial teeth carried on the blocks of one supporting frame will overlap and rest upon the next adjacent supporting frame, whereby said teeth are fully exposed to inspection.

1,423,922. PROCESS FOR THE MANUFACTURE OF BRASS. PAUL DUTOIT, Lausanne, Switzerland, assignor of one-third to Alexis Boever, Lausanne, Switzerland. Filed Sept. 10, 1919. Serial No. 322,924. 3 Claims. (Cl. 75—1.)

1. The hereinbefore described process of manufacturing brass from raw elements, consisting in raising the

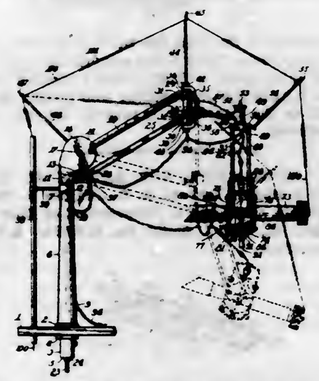
temperature of a salt sufficiently to make the same a molten mass, and introducing into the molten mass of salt in relatively small quantities at a time the raw materials in order that the heat of the molten salt bath may be utilized in melting the metal, the density of the salt being intermediate that of the raw elements and the slags thereof, whereby the metal is retained in the bath and the slags rise to the surface thereof.

1,423,923. DIVING APPARATUS. JAMES CLENDENIN ECKERT, Jr., Stamford, Conn. Filed Apr. 28, 1921. Serial No. 465,306. 3 Claims. (Cl. 61—70.)



1. In a diving apparatus of the kind herein described, a valve adapted for use and connection with the flexible tubing between the floating air vessel and the diver, comprising a receptacle with two partitions having valves therein opening away from the inlet at the top which is adapted for connection with the floating air vessel, the bottom of said receptacle containing perforations and a side outlet between said two partitions.

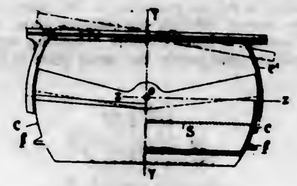
1,423,924. ADJUSTABLE X-RAY-TUBE HOLDER. EDWIN L. EDWARDS, Indianapolis, Ind., assignor to Edwards X-Ray Corporation, Indianapolis, Ind., a Corporation of Indiana. Filed Mar. 20, 1920. Serial No. 367,301. 15 Claims. (Cl. 250—34.)



1. An X-ray tube holder including an arm, a hanger head connected to the arm and having four pivots on one and the same horizontal plane thereon, four hanger rods connected to and extending downward from the pivots respectively, and an X-ray tube frame provided with four pivots on one and the same horizontal plane and supported by the lower portion of the hanger rods respectively.

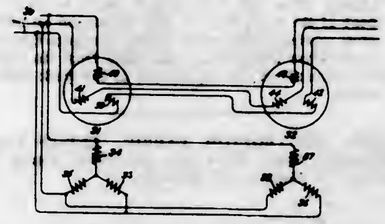
1,423,925. RECEIVER AND STENCH TRAP FOR SEWERS. JEANTY ETCHEBERRIGARAY, Biarritz, Basses-Pyrenees, France. Filed Mar. 30, 1921. Serial No. 456,932. 3 Claims. (Cl. 182—19.)

1. In a sewer mouth, a basin, a longitudinal partition in said basin, ears on the outer face of said basin adapted to be engaged in the masonry, a cover, also provided with a partition, said partitions being secured together by



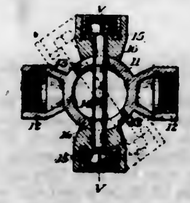
means of a bolt, and a perforated plate covering the sewer top.

1,423,926. VOLTAGE-REGULATING SYSTEM. GIUSEPPE FACCIOLI, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 31, 1921. Serial No. 497,232. 3 Claims. (Cl. 171—119.)



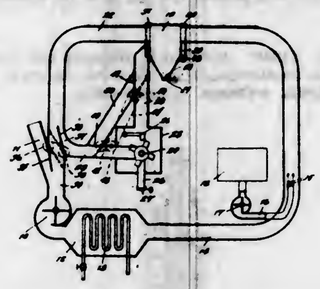
1. In combination, an alternating current circuit and voltage regulating means therefor comprising a plurality of induction regulators having interconnected windings and independently rotatable rotors so that voltages varying in magnitude and phase are produced in said circuit by varying the relative positions of the rotors of said induction regulators.

1,423,927. FITTING FOR RAILINGS AND THE LIKE. ANDREW FALK, Pittsburgh, Pa., assignor of three-tenths to Michael Pfaff, Homestead, Pa. Filed May 31, 1919. Serial No. 300,910. 4 Claims. (Cl. 287—54.)



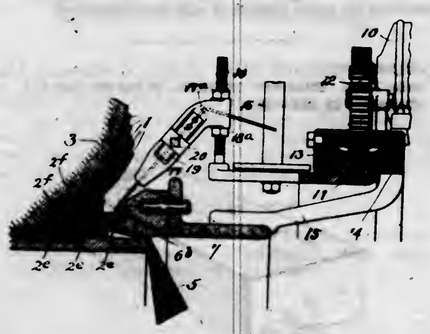
1. An adjustable fitting device for inclined railings and the like, comprising a hollow body portion having a socket member integral therewith and having a slot for the attachment of an adjustable socket member, an adjustable socket member, and a T-shaped bolt extending from the adjustable socket member through the slot and having its head received in the hollow body portion, the head of the bolt being oblong and longer than the width of the slot, and the inside of the body portion at the sides of the slot being formed to engage the ends of the bolt head and prevent it being turned, substantially as described.

1,423,928. DRYING PROCESS AND APPARATUS. CROSBY FIELD, Washington, D. C., assignor to Chemical Machinery Corporation, New York, N. Y. Filed Jan. 21, 1919. Serial No. 272,287. 5 Claims. (Cl. 127—9.)



1. In a drying apparatus, a conduit, means for supplying a heated drying medium to said conduit, means for spraying the material to be dried into the drying medium, a primary collector for the dried material interposed in said conduit, a secondary collector connected to said conduit in spaced relation to the primary collector, and optionally operable means for either recirculating the drying medium through said conduit and the primary collector, but not through the secondary collector or for directing the drying medium through the secondary collector.

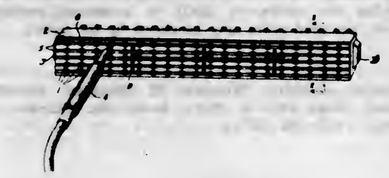
1,423,929. METHOD OF AND APPARATUS FOR FORMING A TIRE BEAD. WILLIAM G. FORDING, Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 19, 1916. Serial No. 104,391. Renewed Mar. 20, 1922. Serial No. 545,345. 21 Claims. (Cl. 154—14.)



1. The method of forming a tire bead which comprises winding a plurality of turns or convolutions of bead-forming material in an annular space of a partially formed tire carcass while the latter is being built up on a tire-forming core.

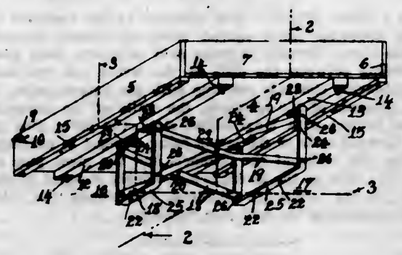
1,423,930. TELEPHONE SWITCHBOARD APPARATUS. BRUCE FARIES, Bogota, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 28, 1920. Serial No. 406,982. 2 Claims. (Cl. 179—91.)

1. A test block comprising a plurality of parallel rows of conductive bars placed side by side, each conductive bar terminating at one end in a grooved contact face, and at the other end terminating in a lug adapted to receive conductor wiring; and a block of insulating material in which said bars are insulatingly imbedded said block being



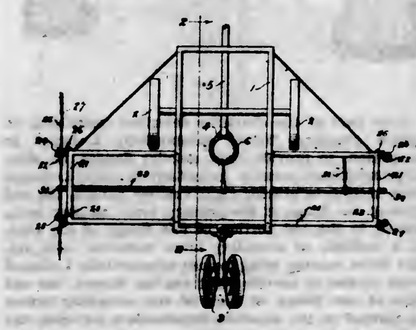
provided with a groove for each row of conductive bars, said groove registering with the grooves in the contact faces of the said conductive bars in each such row.

1,423,931. TRUCK ATTACHMENT FOR AUTOMOBILES. DANIEL J. FUHARR, Leanna Township, Logan County, Ill. Filed Feb. 23, 1922. Serial No. 538,727. 1 Claim. (Cl. 296—28.)



A truck attachment comprising a box-like body; two parallel longitudinal sills and two marginal longitudinal battens fixed on and strengthening the body; a relatively narrow leg comprising a horizontal member provided with holes to receive attaching bolts, and vertical members secured on one sill; a relatively wide leg comprising a horizontal member provided with holes to receive attaching bolts and vertical members secured on the other sill; crossed straight braces connecting one vertical member of each leg on one side; and crossed braces connecting the other vertical member of each leg and curved to accommodate a can or the like.

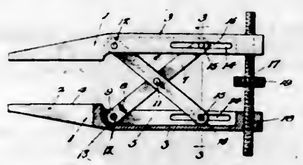
1,423,932. CORN PLANTER. PERRY I. GARNER, Eureka, Kans. Filed July 30, 1920. Serial No. 400,061. 1 Claim. (Cl. 221—121.)



In a planter, a seed box, a seed plate pivoted thereto, a spring for normally retaining said seed plate in a closed

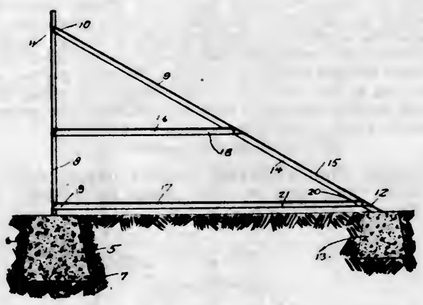
position, an oscillatory shaft, means connecting said shaft and said seed plate for operating the latter, and a coiled spring connected to the shaft and planter for returning the oscillatory shaft to a normal position whereby the seed plate may be closed by its spring.

1,423,933. CLAMP. WILLIAM C. HEATLIE, Beverly, Mass. Filed July 6, 1921. Serial No. 482,864. 1 Claim. (Cl. 144—297.)



In a clamp, a pair of jaw members having channels in their opposing sides, spaced pairs of crossed pivoted toggle levers disposed between said members, pivot pins extending between the ends of the levers and provided with bearing elements coacting with the bottom walls of the channels of the members, the walls of the channels being formed with longitudinal slots, the pivot pins at the forward ends of the levers being engaged in openings in the side walls of the channels and the pivot pins at the rear ends of the levers being slidably engaged in the slots in the respective channels, and means for relatively adjusting the said jaw members.

1,423,934. FENCEPOST. WILLIAM P. HECKLER, Napoleon, Ohio. Filed May 14, 1921. Serial No. 469,545. 1 Claim. (Cl. 189—31.4.)



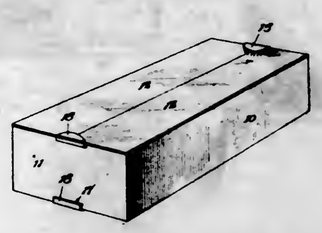
A fence post of the character described comprising an elongated standard formed substantially L-shaped in cross section, to provide right angular flanges, an elongated primary brace member formed substantially L-shaped in cross section to provide right angular flanges, the end portion of one flange of the primary brace member being connected to the end portion of one flange of the standard, a multiple of secondary brace members, each secondary brace member being formed substantially L-shaped in cross section to provide right angular flanges, one end portion of one flange of each of the secondary braces being pivoted to the standard intermediate its ends, the opposite end of said flange of the secondary braces being beveled and detachably connected to the primary brace, the remaining flange of each of the secondary braces having one end thereof engaged with the remaining flange of the primary brace to prevent relative movement of the secondary braces and primary brace, said secondary braces being detachable from the primary brace to permit movement of the primary brace and secondary braces substantially into parallel relation with the standard.

1,423,935. PUMP. RICHARD F. HOPKINS and ORIAN F. DEVOLLD, Bartlesville, Okla. Filed Oct. 24, 1921. Serial No. 509,931. 4 Claims. (Cl. 103—80.)



1. In a pump for oil wells, an outer casing, a working barrel arranged in the lower portion thereof, a traveling tube mounted therein, valves arranged in said barrel and tube, and a floating tube arranged in said casing and surrounding the upper portion of said working barrel.

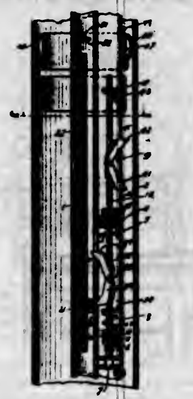
1,423,936. STORAGE FILE. SAMUEL C. HUFFMAN, Lincoln, Nebr. Filed Feb. 26, 1921. Serial No. 447,914. 3 Claims. (Cl. 229—47.)



1. A storage file including a box body having a closure flap and provided in a wall thereof with a slot, and a substantially U-shaped clip having one wing thereof extending through said slot and the other wing thereof overlying said flap securing the flap closed, the clip being freely removable bodily to release said flap.

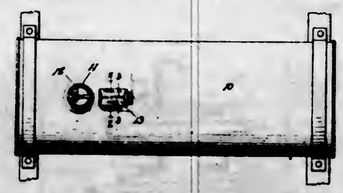
1,423,937. TUBING BLEEDER. GEORGE C. IRONS, McKittrick, and ALBERT LARSON, Bakersfield, Calif. Filed Aug. 8, 1921. Serial No. 490,760. 4 Claims. (Cl. 103—60.)

1. Valve actuating means, comprising a stationary element, a valve stem and sliding means mounted in opposite sides of the stationary element and means associated with the valve-stem adapted to be engaged by the sliding means



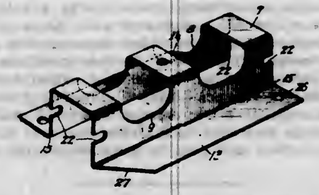
for actuating the valve and to be disengaged from the sliding means by the stationary element.

1,423,938. NUMBER PLATE FOR MOTOR-VEHICLE FUEL TANKS. NICHOLAS W. JACOBS, Stanton, Nebr. Filed May 6, 1921. Serial No. 467,443. 3 Claims. (Cl. 40—20.)



1. In a device of the character described, a plate, and fastening means coacting with the plate at one side thereof, the plate being provided with an opening entering through its opposite side whereby means may be introduced through the plate to coact with said fastening means for locking the plate upon the fastening means.

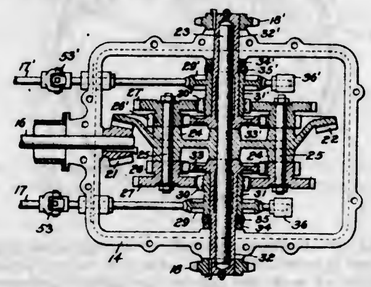
1,423,939. PLASTER-BOARD SUPPORT. MARVIN H. JESTER, Philadelphia, Pa. Filed Feb. 2, 1920. Serial No. 355,866. 10 Claims. (Cl. 72—122.)



1. A plaster board support comprising a series of clip members arranged in spaced relation, each provided with plaster board supporting clips, and a series of wire loops, each embracing two of said members to maintain the members in definite spaced relation.

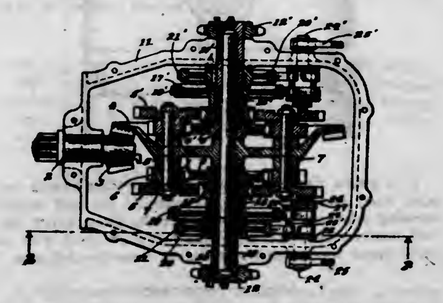
5. A plaster board support, comprising a channel-shaped member provided with laterally extending flanges, said flanges being free from the walls of said member throughout a portion of their length permitting said free portions to be folded upon the remaining portions into plaster board supporting position.

1,423,940. DIFFERENTIAL TRANSMISSION MECHANISM. GEORGE C. JETT, Watertown, Wis., assignor, by mesne assignments, of two-fifths to Walter H. Stiemke, Milwaukee, Wis. Filed June 8, 1918. Serial No. 238,977. 38 Claims. (Cl. 180—17.)



1. In a vehicle, the combination with a power plant and a pair of driven members, of a differential transmission comprising main and auxiliary drive mechanisms delivering power to said members and provided with means whereby said mechanisms are capable of being simultaneously or independently actuated to increase or decrease the common rate of speed of said driven members, when the vehicle is moving in a straight line, said auxiliary mechanism consisting of gearing sets adapted when independently actuated by said plant to create a variance in the speed ratios of said driven members to turn the vehicle.

1,423,941. DIFFERENTIAL MECHANISM. GEORGE C. JETT, Milwaukee, Wis., assignor, by mesne assignments, of two-fifths to Walter H. Stiemke, Milwaukee, Wis. Filed Oct. 31, 1918. Serial No. 260,581. 7 Claims. (Cl. 180—17.)

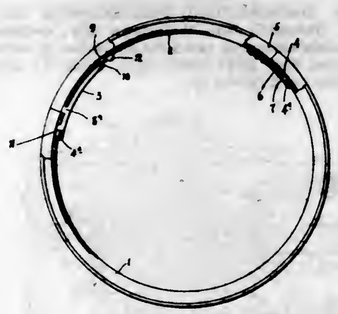


1. In a driving mechanism the combination of a driving means, a driven shaft, differential mechanism between said driving means and said driven shaft, including a rotatable member and means for controlling the rotation of said member, means for controlling the rotation of said shaft, and a single means for controlling both of said controlling means.

1,423,942. DEMOUNTABLE TIRE RIM. JOSEPH H. JONES, Cleburne, Tex. Filed Sept. 18, 1919. Serial No. 324,525. 1 Claim. (Cl. 301—31.)

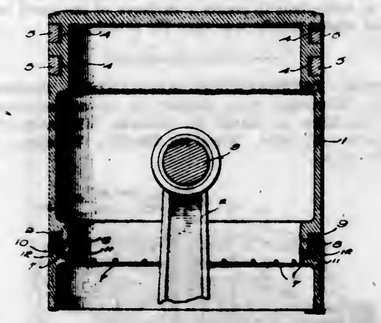
A demountable tire rim, comprising a main circular portion, a segment, and a link member; said circular portion

having a socket on each end with a lip overhanging the socket; said segment having an arm projecting from one end and provided with an angular flange adapted to be conformably received into and engage with one of said sockets on the circular portion; the opposite end of the segment



having a socket with an inwardly extending recess and a socket set inwardly therefrom; said link having angular projections on each end and an intermediate projection, said projections adapted to be conformably received into the sockets in the rim and segment and means for locking the link and segment in position.

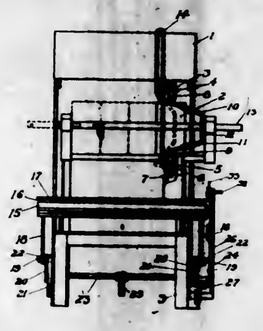
1,423,943. PISTON RING. THOMAS B. JONES, Turlock, Calif. Filed May 25, 1921. Serial No. 472,833. 2 Claims. (Cl. 74—109.)



1. A piston ring comprising a body portion having parallel front and rear walls and parallel top and bottom forming relatively sharp corners at the inner upper edge and lower outer edge, said ring being provided with an outer upper beveled edge and a lower inner beveled edge.

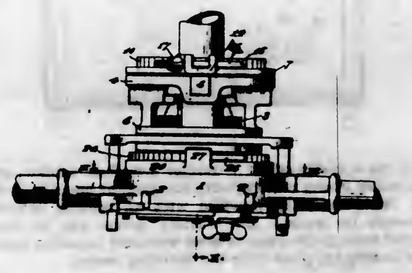
1,423,944. CAN-FILLING APPARATUS. WILLIAM L. JONES, Gallipolis, Ohio. Filed Jan. 23, 1918. Serial No. 213,302. 3 Claims. (Cl. 226—127.)

1. Apparatus for filling cans comprising a main reservoir, a plurality of intermediate feed tanks positioned directly below said reservoir, a delivery nozzle for each feed tank, a separate inlet nozzle connecting each intermediate tank with said reservoir, valves controlling the said nozzles whereby when one set of nozzles is closed the other set is open, and a vent pipe extending from each intermediate tank to a point above the highest liquid level in said main reservoir and having its inlet end terminating immediately below the delivery nozzle of each intermediate tank and of such construction in relation to said delivery nozzle that it will enter the receptacle to be filled, whereby the filling of said receptacle will finally bring about cutting off of the intermediate tank



from the atmosphere which will be immediately followed by a complete cessation of flow to the said receptacle by the covering of the end of the said delivery nozzle.

1,423,945. DIESTOCK. JOSEPH KONIGSBERG, New York, N. Y., assignor to Lena Konigsberg, New York, N. Y. Filed Aug. 24, 1920. Serial No. 405,574. 7 Claims. (Cl. 10—123.)

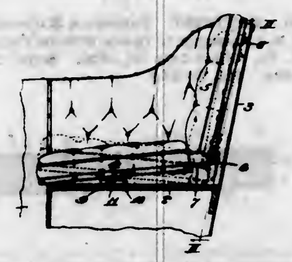


4. The combination with a stock having a leader screw, of one centering device located at a distance from the cutting chasers, said device comprising a plurality of radially movable blocks having a common operating means, said means being controlled by a ratchet and pawl connection for maintaining said blocks in a relatively fixed position, and another centering device carried by the leader screw located in close proximity to the cutting chasers and between the first named device, said intermediate device comprising a plurality of swingingly movable arms having a common operating means, said means being controlled by a ratchet and pawl connection for maintaining said arms in a relatively fixed position.

1,423,946. SHOCK ABSORBER. JOSEPH KONIGSBERG, New York, N. Y., assignor to Lena Konigsberg, New York, N. Y. Filed May 14, 1921. Serial No. 469,897. 2 Claims. (Cl. 155—6.)

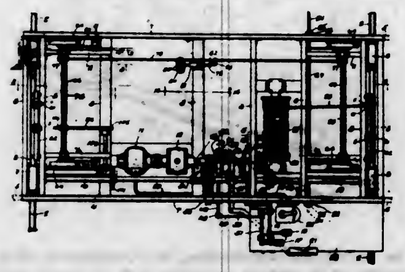
1. In an automobile, fixed seat and back supports, a seat, a rocking connection between the bottom of the seat and the top of the support spacing the seat from the support, the engagement of front and back portions

of the bottom of the seat with its support serving to limit the rocking movement of the seat, a back connected at its bottom to the back of the seat, and an antifriction



connection between the top of the back and its support whereby a combined rocking and vertically reciprocating movement is imparted to the back by the rocking of the seat.

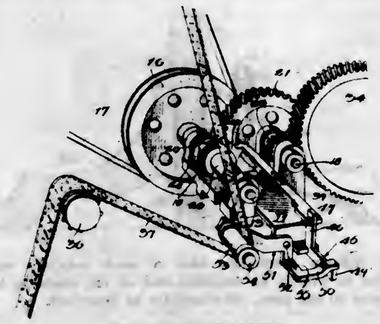
1,423,947. POWER TRUCK. JULIUS KRAMER, FRED O. KUEHNS, Jr., and WALTER H. KOPPLIN, Chicago, Ill., assignors to Pullman Davenport and Upholstered Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 19, 1922. Serial No. 530,272. 8 Claims. (Cl. 105—177.)



1. A transfer truck having two sets of wheels arranged to travel on separate tracks respectively which are disposed at an angle, and means for adjusting the elevation of one of said sets of wheels relative to the car body, the said one set of wheels being mounted on vertically movable parallel axes, and links being provided for each of the movable axes, said links each having one end secured by a pivot which is stationary relative to the truck frame, and the other end being attached to the corresponding movable axis, and rotary lifting means arranged to coact between the movable ends of said links respectively and the frame of the truck.

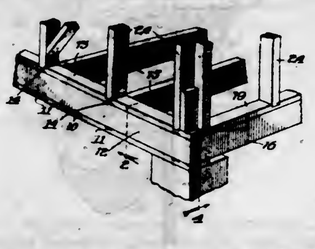
1,423,948. AUTOMATIC STOP FOR MOVING-PICTURE MACHINES. JAMES BERNARD KERN, Cameron, W. Va. Filed Aug. 8, 1921. Serial No. 490,630. 8 Claims. (Cl. 88—17.)

1. An automatic stop for motion picture machines comprising a shaft, a clutch section mounted thereon, a longitudinally movable arm having a fork engaging said clutch section, a bell crank engaged with said arm and a film engaging member detachably engaged with said



crank and adapted to swing the same on its pivot when the tension on the film exceeds a predetermined point.

1,423,949. BUILDING CONSTRUCTION. EDWARD A. LAUGHLIN, Port Arthur, Tex. Filed Feb. 2, 1921. Serial No. 441,724. 8 Claims. (Cl. 20—1.)



1. In a building construction, sills notched at regular intervals on their upper faces, plates notched at corresponding and registering regular intervals on their lower faces, and joists embraced at their ends in the respective pairs of notches thereof.

1,423,950. ANTIFRICTION BALL OR ROLLER BEARING. KARL OSKAR LJUNG, Stockholm, Sweden, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Filed Nov. 3, 1919. Serial No. 335,460. 4 Claims. (Cl. 64—36.)

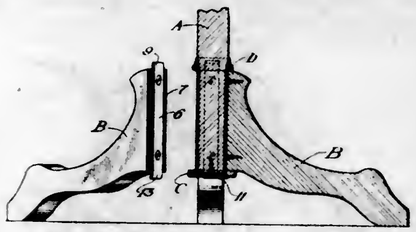


1. The combination with antifriction ball or roller bearing, of means for rendering said bearing resilient including a surrounding supporting ring provided with inwardly directed yielding flanges, said flanges sloping relatively to the side surfaces of the race ring so as to form hollow spaces between the flanges and the adjacent surfaces of the outer race ring.

1,423,951. PEDESTAL. JOHN LUETS, Chicago, Ill. Filed Oct. 22, 1921. Serial No. 509,667. 2 Claims. (Cl. 155—138.)

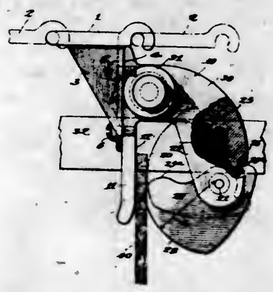
1. In combination, a recessed base, a lug, and a connection therebetween comprising a plate secured to the

leg and adapted to lie freely within the base recess, and two members carried by the base, one stationary and the



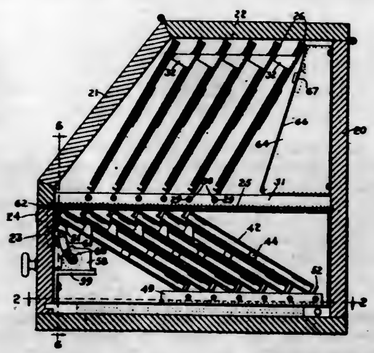
other slidable thereupon, each of said members being adapted to overlie an opposite end of the plate to lock the same to the base, substantially as described.

1,423,952. PAPER-CONVEYING MECHANISM. JAMES D. MCCRACKEN, Cincinnati, Ohio, assignor to The United States Playing Card Company, Norwood, Ohio, a Corporation of Ohio. Filed June 9, 1921. Serial No. 476,332. 7 Claims. (Cl. 271—79.)



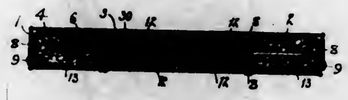
1. A unit carrier link, comprising a detachable link section, a housing detachably secured to said link section, and gravity-actuated clamping means carried by said housing.

1,423,953. CREDIT-ACCOUNT REGISTER. HAAKON A. MARTIN, Christiania, Norway, assignor to The National Cash Register Company, Dayton, Ohio. Filed Apr. 8, 1916, Serial No. 89,774. Renewed Sept. 26, 1919. Serial No. 326,557. 28 Claims. (Cl. 45—2.)



1. A filing device comprising two series of corresponding filing units movable independently of each other, locking means for rendering one of said series inaccessible, and the two series arranged whereby the inaccessible units are visible singly only when the corresponding accessible unit is exposed.

1,423,954. MATTRESS. FREDERICK MAUSANER, Collingswood, N. J., assignor to Henry Wilhelm Company, Pittsburgh, Pa. Filed July 10, 1920. Serial No. 395,824. 2 Claims. (Cl. 5—13.)



1. A mattress or the like comprising, a casing divided into sections each of which forming a compartment, said sections adapted to be arranged edge to edge, one of said compartments being a multiple of a smaller compartment, removable filling portions arranged in superimposed layers within each compartment, and said filling layers adapted to be interchangeable by placing the upper and lower filling layers of the smaller compartment in the same plane to form an upper or lower filling layer for the larger compartment and by placing an upper or lower filling layer of the larger compartment in different planes within the smaller compartment to form upper and lower filling layers.

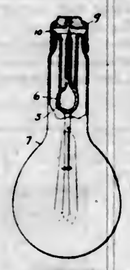
1,423,955. AUTOMOBILE LOCK. STANLEY G. MILLER, Chatham, Ontario, Canada. Filed May 28, 1921. Serial No. 473,289. 1 Claim. (Cl. 70—128.)



In a lock for automobiles, the combination with a support, of a padlock provided with a shank and a shackle, the latter adapted to embrace a controlling member of the automobile to be locked, a hinge operatively connecting the shank and the support, whereby the shank may assume a substantially perpendicular position adjacent the face of the support, a spring member substantially U-form having its transverse portions engaged with the shank and the extremities of its arms engaged with said support, the arms of the spring member having at their substantially intermediate portions spring coils operatively connected to the hinge pins of the hinge for holding the shank in a substantially perpendicular position adjacent the stationary part of the automobile, when the shackle of the padlock is disengaged from said controlling member.

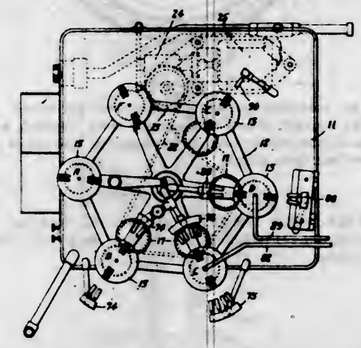
1,423,956. TIPLESS INCANDESCENT LAMP AND SIMILAR ARTICLE. LOUIS EDWIN MITCHELL and ARTHUR JAMES WHITE, Cleveland, Ohio, assignors to General Electric Company, a Corporation of New York. Filed Mar. 20, 1919. Serial No. 283,801. 24 Claims. (Cl. 176—86.)

1. The method of glass working which comprises inserting a glass tube into another hollow glass body, applying heat to cause the formation of a solid glass mass closing off the tube and glass body and then forming a



passage extending entirely through said mass and communicating with the passage in said tube.

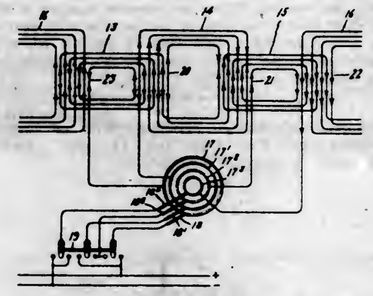
1,423,957. STEM-MAKING MACHINE. LOUIS EDWIN MITCHELL and ARTHUR JAMES WHITE, Cleveland, Ohio, assignors to General Electric Company, a Corporation of New York. Original application filed Mar. 20, 1919, Serial No. 283,801. Divided and this application filed June 24, 1920. Serial No. 391,503. 18 Claims. (Cl. 49—2.)



8. In a machine for making parts for lamps and similar articles, the combination of a rotatable carrier, a rotatable head thereon for supporting tipless stem parts comprising means for supporting a stem tube, means for supporting an exhaust tube within said stem tube, means for supporting leading-in wires between said exhaust tube and said stem tube and means for supporting a glass rod with an end thereof aligned with the ends of said stem tube and said exhaust tube, means for rotating said head, means for fusing the aforesaid parts at their aligned ends, means for clamping the fused mass thus produced to form a seal about the leading-in wires, means for fusing said tubes adjacent to said seal, and means for directing a flow of gas into the open end of said exhaust tube to expand and form an aperture in said fused portion.

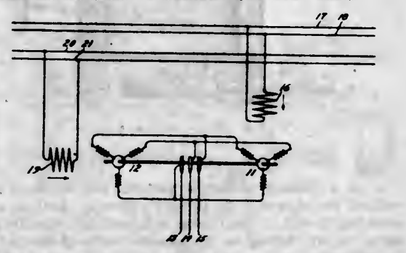
1,423,958. DYNAMO-ELECTRIC MACHINE. ALBERT H. MITTAG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,483. 2 Claims. (Cl. 172—274.)

2. In a dynamo electric machine, a field member comprising a magnetic core n, distributed exciting winding adapted to be supplied from a source of direct current and arranged in slots in said core, each of said slots carrying conductors belonging to adjacent exciting windings, means for reversing the direction of current flow



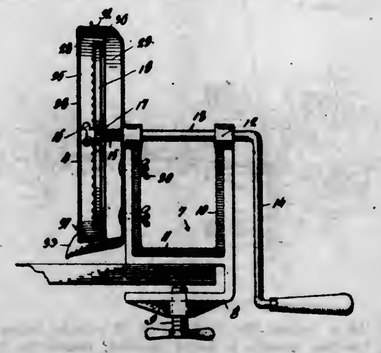
in alternate pairs of exciting windings, whereby the number of poles produced may be made either n or $\frac{n}{2}$.

1,423,959. FREQUENCY CHANGER. ALBERT H. MITTAG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,695. 7 Claims. (Cl. 172—281.)



2. In a frequency changer, in combination, a pair of single phase induction motor elements comprising a pair of parallel connected secondary members, primary members cooperating therewith, said secondary members being relatively movable as a unit with respect to the primary members, means for supplying said primary members with dephased currents and taps from the connections of said secondary members for supplying an external load.

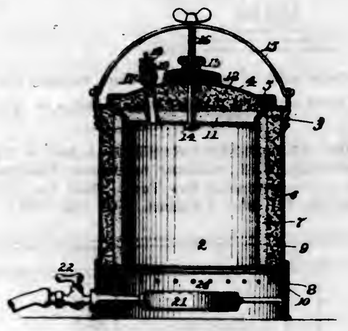
1,423,960. VEGETABLE CUTTER. ANDREY I. MOHNACS, Passaic, N. J. Filed Jan. 28, 1922. Serial No. 532,380. 2 Claims. (Cl. 146—11.)



2. A vegetable cutter comprising an attaching device including a bearing, a shaft journalled therein, a cutting

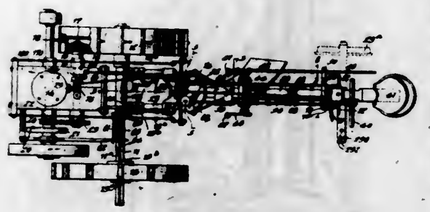
element carried by the shaft, a casing enclosing the cutting element and consisting of front and rear detachable concentrically arranged guards fitting one within the other, the rear guard having a central opening to fit upon the shaft and being secured to the attaching device, and one guard having a feed opening therein whereby the vegetables can be pressed into engagement with the cutting element.

1,423,961. COOKING UTENSIL. WILLIAM J. MURPHY, Philadelphia, Pa. Filed Oct. 14, 1918. Serial No. 258,003. 2 Claims. (Cl. 126—39.)



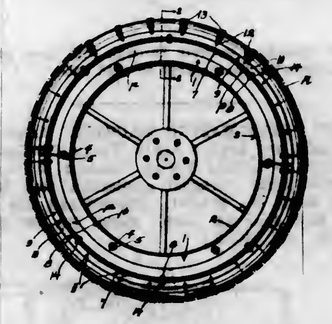
1. In a cooking utensil, a portable pot having a metal bottom unobstructed so as to be directly heated, a surrounding jacket of fixed form composed of refractory material tightly fitting to the outside walls of the pot, and an enclosing outer metal casing having a non-conducting packing extended about the refractory jacket, the said casing secured to the pot and mechanically holding the refractory jacket against downward displacement, combined with a hollow lid making a tight closure to the pot and also provided with heat non-conducting materials, and separate means carried by the pot to positively clamp the lid tightly in place, whereby a steam pressure may slowly build up within the pot after the same has been quickly heated and removed from the fire.

1,423,962. TRACTOR. FRED C. OLIN, Buffalo, N. Y. Filed May 15, 1920. Serial No. 381,620. 15 Claims. (Cl. 180—12.)



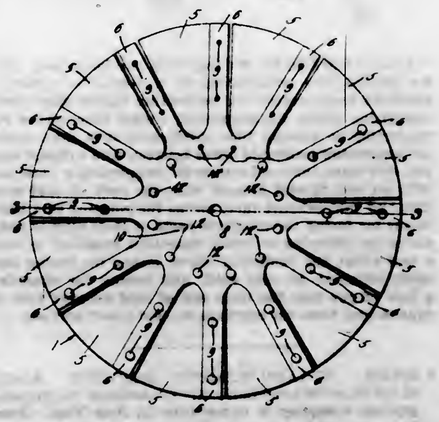
1. In a tractor, the combination of a main frame having traction wheels, a motor thereon, means for transmitting power from the motor to the traction wheels including a clutch, a supplemental frame pivotally connected to said main frame, and means for operating said clutch including an actuating member carried by the main frame and having its axis arranged eccentric to the pivot of said main frame and supplemental frame, said actuating member being capable of a rotary and sliding movement and controlled from said last-named frame, the axis of the pivotal connection between the main and supplemental frames and the axis of the actuating member being parallel and vertical.

1,423,963. ANTISKID DEVICE. THOMAS J. O'NEIL, Pittsburgh, Pa. Filed Nov. 25, 1921. Serial No. 517,562. 3 Claims. (Cl. 152—14.)



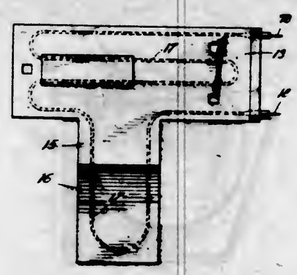
3. In combination with an automobile wheel, plates secured to said wheel at opposite sides thereof, arcuate strips detachably secured to said plates, and cross chains connecting said strips.

1,423,964. FAN WHEEL. RICHARD W. OSWALD, Pittsburgh, Pa. Filed July 13, 1921. Serial No. 484,475. 4 Claims. (Cl. 170—158.)



1. A fan wheel comprising like disks provided with arms and with blades projecting from the arms, the disks being placed together, to bring the arms into alinement; and means for connecting the disks.

1,423,965. TRACK SWITCH. JASON PAGE, Evanston, Ill. Filed Dec. 24, 1921. Serial No. 524,572. 4 Claims. (Cl. 246—428.)



3. A slide plate for track switches comprising a body portion adapted to form a rail bearing, a lateral wing portion, and an electrical resistance element embedded therein and adapted to heat said slide plate.

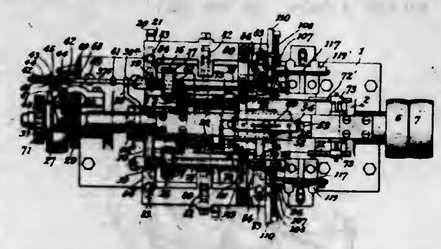
1,423,966. VALVE. NICHOLAS PALMAFFY, West Orange, N. J. Filed May 14, 1919. Serial No. 297,080. 3 Claims. (Cl. 251—27.)



1. In a valve, a casing having a bore terminating at one of its ends in an elongated valve seat and a laterally extending outlet passage communicating with said seat, and a hollow conical valve member normally held upon said seat solely by fluid pressure acting against the inner surfaces of the valve walls, the walls of said conical valve member being imperforate and spaced from said seat when the valve member is in open position to permit passage of the fluid into the outlet, said imperforate wall extending circumferentially over the end of the outlet passage and closing the same when the valve is in its normal position.

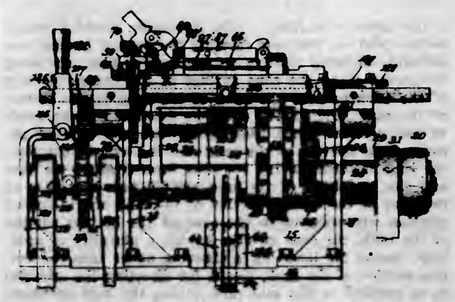
1,423,967. COMB-CUTTING MACHINE. HERMAN SCHELHAMMER, Whitestone Landing, N. Y., assignor to American Hard Rubber Co., New York, N. Y., a Corporation of New York. Filed July 1, 1921. Serial No. 481,767. 12 Claims. (Cl. 144—26.)

1. In a comb cutting machine, cutters for forming teeth in a comb blank, means for feeding said cutters longitudinally of said blank, and means for reversing the longitudinal feed of said cutters on the completion of the cutting operation comprising a reversing clutch, and



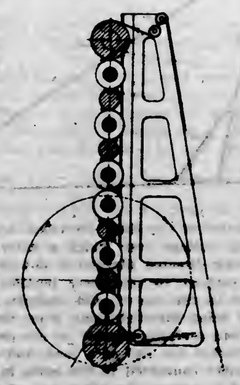
means operatively connecting said longitudinal feed means to said clutch.

1,423,968. COMB-CUTTING MACHINE. HERMAN SCHELHAMMER, Whitestone Landing, N. Y., assignor to American Hard Rubber Co., New York, N. Y., a Corporation of New York. Filed Sept. 7, 1921. Serial No. 499,001. 17 Claims. (Cl. 144—26.)



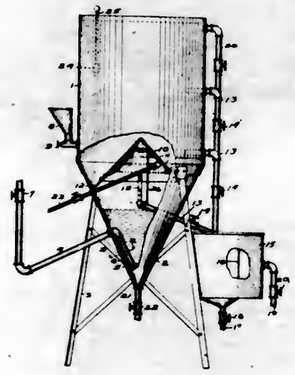
1. In a comb cutting machine, a cutter for cutting teeth in a comb blank, an oscillatory cutter carrying frame, a stop on said frame, and an H-shaped gauge plate arranged to allow said stop to clear the legs thereof during the cutting of said teeth, and to cause said legs to engage said stop for preventing further oscillation of said frames on the completion of the cutting operation.

1,423,969. MULTIPLE-ROLL SUPERCALENDER. CARL SCHURMANN, Dusseldorf, Germany. Filed Aug. 29, 1921. Serial No. 496,686. 3 Claims. (Cl. 92—73.)



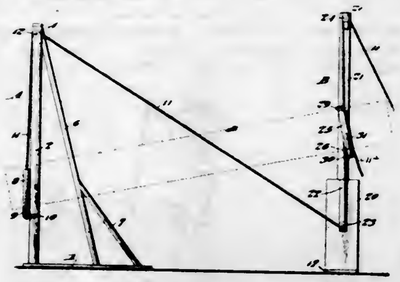
1. In a multiple roll calender an elastic terminal roll disposed below or at the top, or both below and at the top.

1,423,970. GASOLINE PURIFIER. WILLIAM J. SEDELBAUER, Toledo, Ohio. Filed Dec. 22, 1921. Serial No. 524,125. 1 Claim. (Cl. 210—58.)



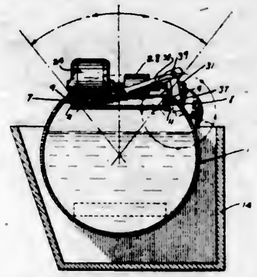
In a gasoline purifier, a tank having an inverted conical bottom portion, the cone forming the bottom having considerable altitude relative to its base, a pipe extending downward along the cone surface of the bottom portion of the tank to near the apex of the cone of the bottom of the tank, and having openings extending at an angle to the vertical plane passing through the axis of the cone of the bottom of the tank and the axis of the pipe, the cone member having its apex located above its base and the periphery of its base located near the base of the cone of the bottom portion of the tank and in spaced relation with respect to the cone of the bottom portion of the tank, the cone member having a plurality of openings, means for inserting a cleaning agent into the bottom portion of the tank, means for directing the material to be purified to the said pipe having the said openings, and means for drawing off the liquid at different levels.

1,423,971. HOISTING APPARATUS. CURTIS E. SMITH, St. Joseph, Mo. Filed Sept. 15, 1921. Serial No. 500,888. 6 Claims. (Cl. 254—139.)



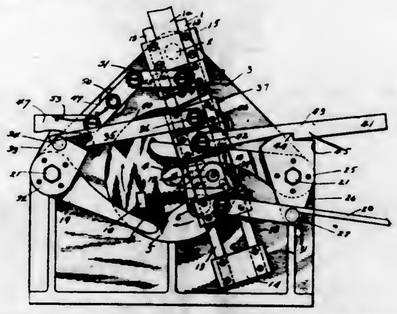
1. In a device of the class described, spaced supports provided with pulleys over which a cable is entrained, the cable being directed diagonally downward from the top of one support to the lower portion of the other support, then to the top of said support, the free ends of the cable being directed away from the tops of the supports, a load carrying member on one end of the cable adapted to engage one end of a load, and a second load carrying member connected to the cable intermediate its ends, adapted to engage the other end of the load, said cable moving both ends of the load simultaneously when one end of the load is moved in a predetermined direction.

1,423,972. WASHING MACHINE. ANDREW SORENSEN, Oakland, Calif. Filed June 16, 1921. Serial No. 477,966. 3 Claims. (Cl. 74—14.)



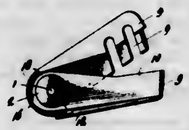
1. In a motor driven device a pivotally mounted element, a vertical arm secured thereto, a crank shaft mounted transversely to said arm, an operative connection between the crank shaft and the arm whereby a rocking motion is imparted to the latter, a spring latch for establishing and severing said connection and means for rotating the crank shaft.

1,423,973. MECHANICAL MOVEMENT. JAY C. STONE, Spokane, Wash. Filed Dec. 10, 1921. Serial No. 521,345. 5 Claims. (Cl. 74—14.)



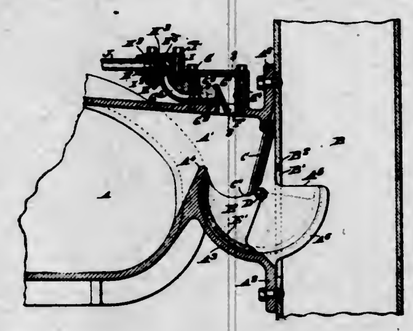
1. The combination with a pivoted operating lever, a rotary driven shaft and crank disk and a crank arm pivoted on said disk, of a slidable member carried by said lever and pivoted to said arm, a pair of opposed bell crank levers adapted to alternately engage said slidable member, and means actuated by said lever for actuating said bell crank levers.

1,423,974. CHAIN LOCK. LEO J. WAND, Elizabeth, Ill. Filed Oct. 28, 1921. Serial No. 511,085. 5 Claims. (Cl. 24—241.)



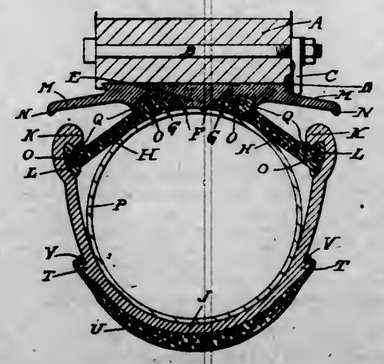
1. In combination, a pivot, an inner section pivoted on the pivot, an outer section comprising a pair of spaced plates connected at one end and fulcrumed on the pivot at their other ends, a spring extension formed on one longitudinal edge of one of the plates so as to extend over the longitudinal edge of the other plate and a shoulder formed on the pivoted end of the inner section for engagement with the spring extension.

1,423,975. WATER SEAL FOR GAS RETORTS. ARTHUR W. WARNER, Media, Pa., assignor to The American Gas Company of New Jersey, Camden, N. J., a Corporation of New Jersey. Filed Nov. 2, 1918. Serial No. 260,839. 5 Claims. (Cl. 48—126.)



1. In combination with a gas retort and a standpipe, a downwardly inclined lateral conduit connecting the retort with the standpipe and so formed that liquids contained therein will flow freely into the standpipe, said conduit having a front wall extending down below the top of its rear wall and movable means operating to dam up liquid in the lower end of the inclined conduit to a height above the bottom of its front wall.

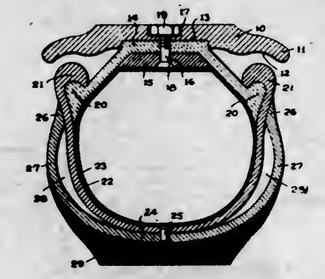
1,423,976. NONPUNCTURABLE TIRE. GEORGE A. WEBER, Stamford, Conn. Filed Feb. 21, 1919. Serial No. 278,384. 12 Claims. (Cl. 152—33.)



1. A tire having an outer metallic casing capable of enclosing a resilient medium, a rim having bearing portions adapted to cooperate with the substantially continuous inner edges of the casing if the resilient body should give way and permit contact between said bearing portions and edges, and resilient means for connecting the casing to the rim.

1,423,977. NONPUNCTURABLE TIRE. GEORGE A. WEBER, Stamford, Conn. Filed Nov. 7, 1919. Serial No. 336,489. 7 Claims. (Cl. 152—33.)

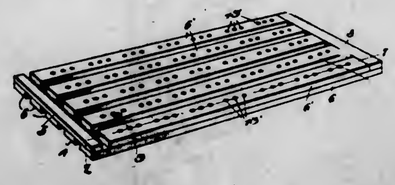
1. In a device of the class described, in combination, a rim, a metallic casing, a single unitary member interlocked with said casing for centering said casing upon said rim, said metallic casing and said member forming a substantially unbroken interior chamber, and a resilient medium mounted within said chamber formed by said casing and said member.



1,423,978. PROCESS OF PREPARING CATALYZING MATERIAL. EZECHIEL WEINTRAUB, New York, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 26, 1918. Serial No. 224,897. 3 Claims. (Cl. 23—28.)

3. The method of depositing nickel upon a fibrous support which consists in permeating said support with nickel carbonyl in the gaseous state under pressure less than atmospheric and then heating said carbonyl to the decomposition temperature.

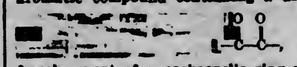
1,423,979. SEED AND GROUND TESTER. JOSEPH BYRON WHITE, deceased, late of Clarion, Iowa, by Ida E. White, administratrix, Clarion, Iowa. Filed July 3, 1920. Serial No. 393,947. 3 Claims. (Cl. 47—30.)



1. A recording frame for use in testing seeds comprising an elongated strip provided at spaced points therealong with a plurality of series of openings, a second strip slidably mounted on the first named strip, said second strip being also provided with a plurality of series of openings, the series of openings of the second strip registering with the series of openings of the first strip when the second strip is moved in one direction.

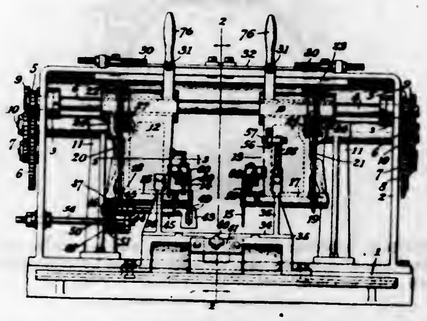
1,423,980. PRODUCTION OF DICARBOXYLIC ACIDS. ARTHUR G. WILLIAMS, Grantwood, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Mar. 22, 1921. Serial No. 454,479. 19 Claims. (Cl. 260—108.)

1. The process of producing a dicarboxylic acid from an aromatic compound containing a diketonic group,



forming part of a carbocyclic ring structure, which comprises dissolving the said compound in a suitable alkaline reducing solution, and oxidizing the solution.

1,423,981. MACHINE FOR MAKING COMBS. CLAUDE E. WING, College Point, and HERMAN SCHELHAMMER, Whitestone Landing, N. Y., assignors to American Hard Rubber Co., New York, N. Y., a Corporation of New York. Filed Apr. 22, 1921. Serial No. 463,708. 13 Claims. (Cl. 144—26.)



1. A comb cutting machine comprising in combination a plurality of revolubie cutters, means for oscillating said cutters, and means for feeding said cutters simultaneously in opposite directions longitudinally of said machine.

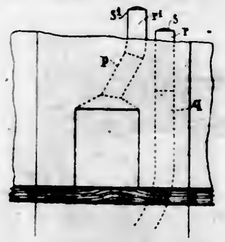
1,423,982. SUPPORTING AND ACTUATING MEANS FOR AUTOMOBILE RADIATOR SHUTTERS. ARTHUR P. WOLFE, Lockport, N. Y., assignor to Harrison Radiator Corporation, a Corporation of New York. Filed Mar. 28, 1921. Serial No. 456,310. 10 Claims. (Cl. 189—62.)



2. A pivoting support for automobile radiator shutters comprising a pair of sheet metal strips having integral therewith a plurality of hollow pivot members, substantially as described.

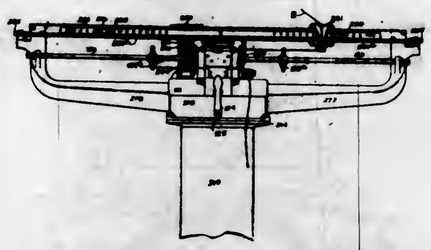
1,423,983. MOLDING OF CONCRETE PRODUCTS SUCH AS BLOCKS, PANELS, STRUCTURES, AND THE LIKE. JOHN WOOLCOCK, London, England, assignor to William John Stewart, London, England. Filed June 16, 1920. Serial No. 389,447. 8 Claims. (Cl. 25—128.)

2. Apparatus for molding pipes, drains, sewers and other conduits, comprising in combination a central contour determining member extensible by an axial pull to produce transverse contraction and a tubular covering member therefor constructed of rubber substance and extensible under tension.



8. A core for molding holes in concrete products and comprising a tube constructed throughout of rubber substance and adapted to be maintained at a determined size by a filling comprising a helical supporting coil which upon removal permit a sufficient contraction to provide for axial withdrawal of the core.

1,423,984. MACHINE FOR MAKING SHOE LACES AND THE LIKE. GEORGE H. ARMITAGE, Lincoln, R. I., assignor to United Lace & Braid Manufacturing Company, Auburn, in the town of Cranston, R. I., a Corporation of Rhode Island. Filed Sept. 20, 1918. Serial No. 254,991. 8 Claims. (Cl. 153—1.5.)



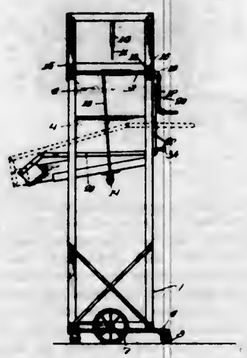
6. In a machine of the character described, the combination with tip applying mechanism, of means for feeding measured lengths of a continuous lace cord or the like to said mechanism comprising a reciprocating shuttle continuously engaging said cord or the like and means for operating said shuttle to cause it to deliver measured stretches of said cord or the like directly into position to be operated upon by said mechanism.

1,423,985. CEMENTING AND PROTECTING COMPOSITION. LAWRENCE E. BARRINGER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 18, 1919. Serial No. 338,909. 5 Claims. (Cl. 106—14.)

1. An electrical insulating composition capable of withstanding elevated temperature without damage, consisting largely of a silicate of an alkali metal and a lesser proportion of a natural resin.

1,423,986. COAL-HANDLING DEVICE. HARRY D. BARTLETT, Chicago, Ill. Filed Feb. 21, 1921. Serial No. 446,560. 6 Claims. (Cl. 198—29.)

1. A device for handling coal comprising a supporting frame having a hopper slidably mounted therein, mechanism carried by said frame for vertically shifting said hopper, the bottom of said hopper being inclined to form a chute having an outlet at one side of said frame, a hinged gate mounted in said outlet and arranged to form a continuation of said chute, means for shifting said

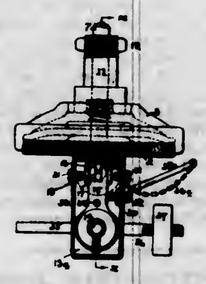


gate into position to close said outlet, and a follower slidably arranged in said chute and connected to said gate so as to be actuated thereby.

1,423,987. SYSTEM OR METHOD OF FEEDING COMBUSTION ENGINES FOR AIRSHIPS. ARNO BORRNER, Scheveningen, Netherlands. Filed June 3, 1919. Serial No. 301,589. 1 Claim. (Cl. 244—1.)

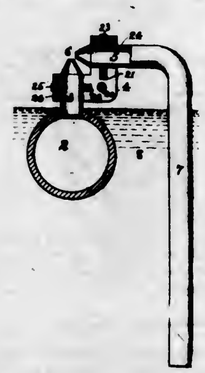
The method of feeding internal combustion engines for airships which consists in charging the combustion chambers of the engines with lifting gas drawn from the balloon and a compressed gas containing oxygen, the compressed gas containing the oxygen being obtained from a supply of the same on the balloon, the compressed gas being supplied in such quantities as to compensate by loss in weight the loss in buoyancy caused by the use of the lifting gas, substantially as set forth.

1,423,988. VALVE DEVICE. HERMAN C. BREHMER, Philadelphia, Pa., assignor to H. W. Butterworth and Son's Company, a Corporation of Pennsylvania. Filed Feb. 20, 1919. Serial No. 278,220. 10 Claims. (Cl. 137—139.)



1. A valve device for motors, consisting of a main frame having two relatively fixed parts providing a space between them open to the atmosphere, one of said parts having a flat seating surface and a port therethrough, an adjustable bushing held in the other part of the main frame and having a seating surface and a port in said surface in alinement with the first mentioned port in the other part of the frame, said bushing extending to the outside of the frame whereby it may be adjusted when the valve is in operation, combined with a rock shaft journalled in the main frame, and a valve piece secured to the rock shaft adapted to be oscillated thereby, said valve piece unconfined and oscillating in the atmosphere and having its controlling portion made with opposite parallel surfaces of relatively small area having a transverse port extending from surface to surface adapted to come into alinement with the ports in the main frame and bushing, and also having one of its surfaces provided with an exhaust passage close to the port, whereby the valve piece oscillates transversely to and between the port of the frame and the port of the bushing and so as to bring its transverse port and exhaust passage alternately into operative position.

1,423,989. ATOMIZER. HERMAN C. BREHMER, Philadelphia, Pa., assignor to H. W. Butterworth & Son's Co., a Corporation of Pennsylvania. Filed July 31, 1919. Serial No. 314,583. 9 Claims. (Cl. 299—86.)

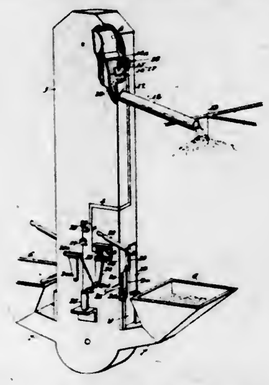


1. An atomizer consisting of a liquid holding tank, a vertical blast nozzle rigidly positioned in the tank, combined with an adjustable horizontal liquid supplying nozzle arranged at an angle to the blast nozzle and above the liquid level in the tank, said nozzles having conical ends so as to be capable of having the two nozzle apertures brought very close together under adjustment, said liquid nozzle having a downward pipe extending a substantial distance into the tank, a connecting frame adjustably secured upon the vertical blast nozzle so as to be raised or lowered in respect thereto and having an upwardly extending part for supporting the horizontal portion of the liquid supplying nozzle, and means for adjusting the liquid supplying nozzle upon the frame.

1,423,990. BIN-FILLING SHUT-OFF. MARTIN L. BREMER and ALVIN L. BREMER, Elberon, Iowa. Filed Nov. 7, 1921. Serial No. 513,516. 5 Claims. (Cl. 198—232.)

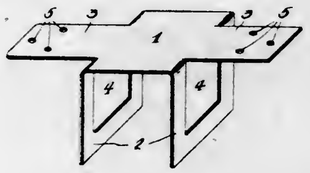
1. Combined with bin-filling mechanism, a switch-closer actuated by the rise of grain, a gate to regulate the flow of material to the bin-filler, means adapted to hold

the gate in open position, trip-mechanism to release the gate-holder, a magnet-actuated latch therefor, a source of



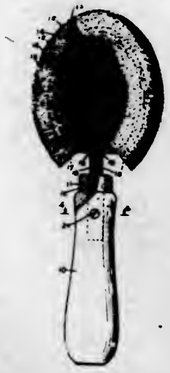
electrical energy, and a magnet in circuit therewith and with the switch.

1,423,991. SCREED HOLDER. GEORGE W. BROOKS, Topeka, Kans. Filed July 16, 1921. Serial No. 485,238. 7 Claims. (Cl. 72—101.)



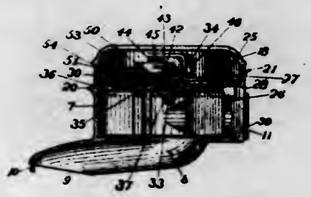
1. A screed holder or clip embodying a body portion, a normally depending flange, and a normally outturned substantially horizontal flange adapted to be bent in a vertical position to engage a screed after the latter has been placed in position.

1,423,992. SOAP-HOLDING BRUSH. FREDERICK S. BROWN, Torrington, Conn. Filed July 2, 1921. Serial No. 482,042. 6 Claims. (Cl. 15—122.)



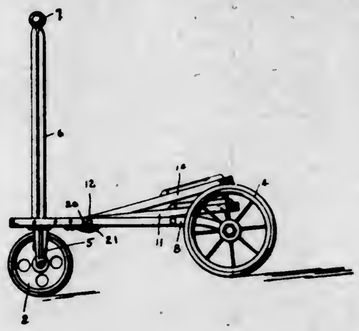
1. A device of the character described comprising a handle, a plurality of brush elements carried thereby and arranged side by side, and a soap container between the brush elements, said container having perforated walls.

1,423,993. SUCTION DUSTER. RAFAEL DIAS BUITRAGO, New York, N. Y. Filed Mar. 9, 1921. Serial No. 450,910. 2 Claims. (Cl. 230—11.)



1. A manually held and operated suction duster comprising a two chambered casing adapted to be grasped by the hand, the suction chamber containing a suction fan, a shaft carrying the fan and extending into the other chamber, multiplying gears in the second chamber adapted to rotate said shaft, a fly wheel on said shaft, an operating lever extending exterior to the casing and adapted to be reciprocated by the muscles of the hand which grasps the casing, and a device by which the operating lever effects rotation of the multiplying gears, and the shaft flywheel, and suction fan.

1,423,994. SCOOTER CAR. WILLIAM BUNDE, Rochester, N. Y. Filed June 2, 1921. Serial No. 474,565. 3 Claims. (Cl. 208—33.)

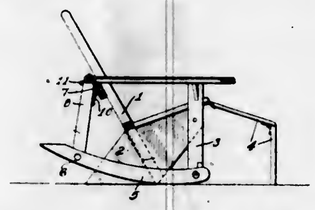


1. In a scooter car the combination of a frame, a stationary platform mounted at one end of said frame, a pair of pedals mounted to swing in the other end of said frame, a steering fork mounted to rotate in said stationary platform, a wheel mounted on the end of said steering fork and supporting said stationary platform, a crank shaft mounted at the rear end of said frame, a wheel at each end of said crank shaft adapted to support the rear of said frame, connecting rods between the free end of each of said pedals and said crank shaft, each of said connecting rods having a loose fit with said pedals to permit a lost motion thereof, and means to throw said crank shaft past the dead center on the downward movement of said pedals.

1,423,995. CONVERTIBLE CHAIR. HORAY C. BUNNELL, Westport, N. Y. Filed Apr. 14, 1922. Serial No. 552,544. 2 Claims. (Cl. 155—73.)

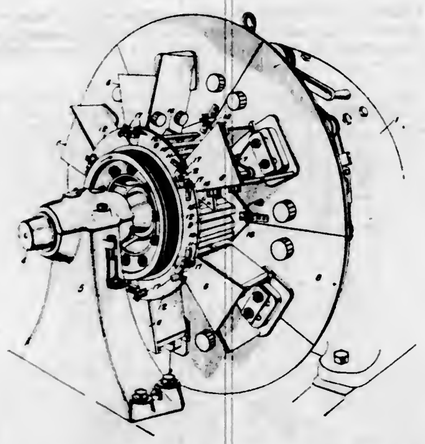
1. The combination with a chair, of rockers pivoted to said chair at their forward ends, a cross piece at the rear

of the chair, a rod connecting the rear portion of the rockers, a bar pivotally carried by said rod, the bar being



notched to engage the upper edge of the cross piece and beveled to fit under said cross piece, and means for locking the bar in place.

1,423,996. ARC BARRIER FOR DYNAMO-ELECTRIC MACHINES. JOSEPH L. BURNHAM, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 7, 1922. Serial No. 527,700. 15 Claims. (Cl. 171—321.)

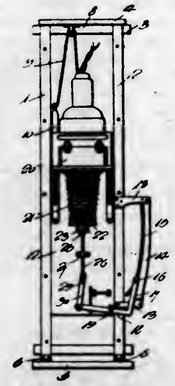


1. In combination, a commutator, sets of brushes therefor, and arc barriers located between adjacent sets of brushes, each of said barriers comprising a member of insulating material mounted so as to be in close proximity to said commutator and inclined thereto at an obtuse angle having reference to the direction of rotation of the commutator, and an arc splitter of insulating material located between the ends of such first mentioned member and extending at substantially right angles thereto and at substantially right angles to said commutator and toward said set of brushes in front of which said barrier is located having reference to the direction of rotation of said commutator.

1,423,997. AUTOMATIC FOCUSING DEVICE FOR ENLARGING CAMERAS. FELIX J. CALLIES, Brush, Colo. Filed Mar. 21, 1921. Serial No. 453,874. 6 Claims. (Cl. 88—24.)

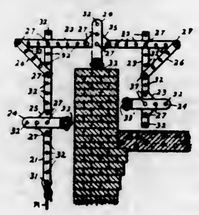
6. A device of the character described comprising a track, a camera carrier movable longitudinally thereof, a lever pivoted to said camera carrier, means for imparting swinging movement to the lever as the camera carrier moves longitudinally of the track, a rod extending longitudinally of said camera carrier and slidably connected

therewith, lens board engaging means adjustably connected with said rod and extending therefrom for connection



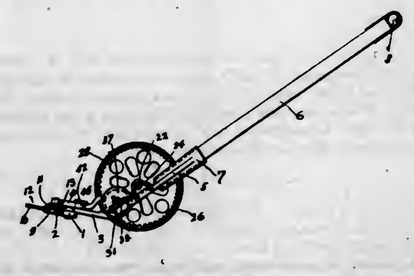
with the lens board of a camera, and means connecting the lower end of the rod with the inner end portion of said lever.

1,423,998. SCAFFOLD CARRIER. ARTHUR E. CAMP, Binghamton, N. Y. Filed Dec. 29, 1921. Serial No. 525,680. 8 Claims. (Cl. 304—17.)



1. An expansible scaffold supporting hook in combination with roller members arranged for attachment thereof to project various distances from and at any of various points along the length of the inner faces of said hook, whereby such rollers will be adapted to serve both for supporting and stabilizing said hook in cooperating with the top of a wall or the like.

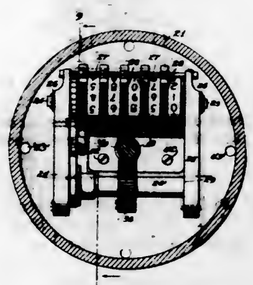
1,423,999. LAWN MOWER. PHILIP ALEXANDER CAMPBELL, Vancouver, British Columbia, Canada. Filed June 24, 1921. Serial No. 480,072. 2 Claims. (Cl. 56—259.)



1. A lawn mower comprising a wheeled frame forked at its lower front end and provided in each forked arm with

a transverse slot, a transverse plate secured to the forks of the frame having a slot in its front edge and a slot registering with one of the fork slots, a lower knifed bar having its rear edge slidably mounted in said front edge slot, an upper knifed bar superposed on said plate having a slot registering with the fork and plate slots aforesaid, a vertical pin secured to said lower knifed bar projecting through the upper knife slot, the plate slot, and the fork slot, a vertical pin secured to the upper knifed bar projecting through the other fork slot, and means for simultaneously imparting opposite reciprocating motion to said pins.

1,424,000. HUB ODOMETER. CLARENCE CARSON, New Rochelle, N. Y., assignor to Johns-Manville Incorporated, a Corporation of New York. Filed June 17, 1920. Serial No. 389,551. 8 Claims. (Cl. 235—95.)



1. In a hub odometer, the combination of a closed cylindrical casing mounted for rotary movement about its axis, an odometer mechanism including a numeral wheel set contained within said casing, a relatively fixed shaft extending axially into said casing, a driving connection between the numeral wheel set and said shaft and a lubricant-travel-limiting partition disposed between the numeral wheel set and the shaft at the axis.

1,424,001. TOOL. BERT W. CHRISTIAN, Delavan, Wis. Filed Apr. 6, 1920. Serial No. 371,641. 2 Claims. (Cl. 137—70.)



1. A trap clean out tool comprising a rigid S shaped member, the arms of said member extending in opposite directions in the same plane, cutting edges carried by the ends of said arms, said arms forming hand grips whereby the tool may be oscillated in a trap passage when the opposite arm is disposed in said trap passage.

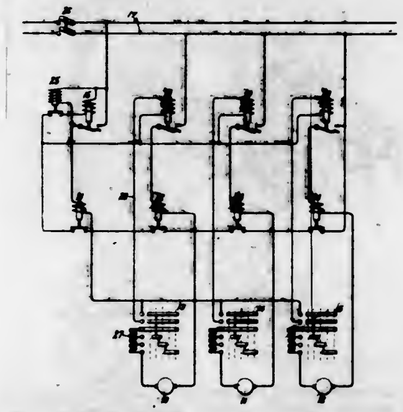
1,424,002. PISTON. JOHN ALBERT COLE and LEO JOSEPH SHORTER, Coventry, England. Filed Nov. 14, 1921. Serial No. 515,057. 1 Claim. (Cl. 123—197.)

A piston for an internal combustion engine in which the whole of the crown of the piston is flat and the plane thereof is oblique to the axis of the cylinder, the piston having a wrist pin bearing cutting the piston axis; the direction of slope of the crown being such that the edge thereof nearest the mouth of the cylinder is against that



side of the cylinder which takes the whole side thrust during the entire working stroke.

1,424,003. CONTROL SYSTEM. CHARLES B. CONNELY, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 23, 1921. Serial No. 517,405. 2 Claims. (Cl. 171—97.)



1. The combination with a plurality of electric translating devices, of a separate controller for each of said devices, a normally closed electromagnetic line switch under the control of all of the said controllers in a common conductor for the said translating devices, a separate normally open electromagnetic line switch under the control of its corresponding one of said controllers in each of the separate return conductors for said devices, an electromagnetic relay having its winding connected across the circuit making contacts of the said line switch in the common conductor, current responsive means, and connections whereby the operation of the current responsive means deenergizes the said line switches and the said relay is energized to maintain the said line switch in the common conductor in the open position until all of the said controllers are first returned to their respective off positions.

1,424,004. PUMP. EVERETT CUSHMAN CUMMINGS, Electra, Tex. Filed Dec. 13, 1921. Serial No. 522,098. 7 Claims. (Cl. 103—179.)

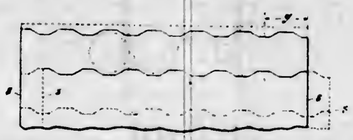
1. A pump of the class described, comprising a barrel, a plunger slidably mounted in the barrel, a valve located

near the lower end of the barrel, a polish rod attached to the plunger for operating it, a valve located near the upper end of the polish rod, and means in conjunction with



the plunger for enclosing the barrel valve to protect it from being packed with sand when the pump is not in operation.

1,424,005. MANUFACTURE OF BLANKS OF SHEET METAL. FRANK DRURY, Altrincham, Liverpool, England, assignor to G. H. Williamson & Sons, Limited, Worcester, England, a Corporation of Great Britain. Filed Sept. 11, 1920. Serial No. 409,727. 1 Claim. (Cl. 164—48.)



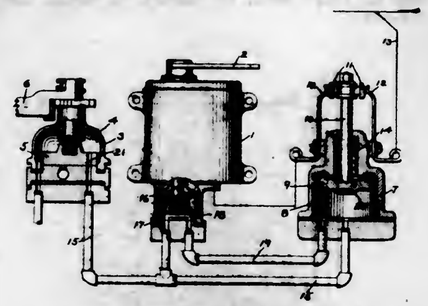
A shearing machine for the production of sheet metal strips with zig-zag or waved longitudinal edges having in combination shearing tools the cutting edges of which are the requisite zig-zag or waved contour, an adjustable stop to limit the forward movement of said sheet metal, and adjustable stops to limit the sidewise movement of the sheet metal, said last mentioned stops being so set that the metal may be shifted for alternate cutting operation to right or left a distance equal to one-half the pitch of the zig-zag or waved longitudinal edges.

1,424,006. MANUFACTURE OF ARSENICAL COMPOUNDS. KARL BASIL EDWARDS, Eltham, London, England. Original application filed Jan. 26, 1921, Serial No. 440,168. Divided and this application filed Oct. 22, 1921. Serial No. 509,749. 4 Claims. (Cl. 23—18.)

2. A process for the manufacture of salts of the formula $R_2As_2O_2S_2$, R_2AsOS_3, where R is an alkali metal or ammonium, which comprises treating arsenious oxide with a solution of alkaline polysulphide and reducing the salts to an anhydrous condition.

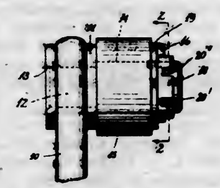
1,424,007. PNEUMATIC CUT-OUT DEVICE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 7, 1920. Serial No. 401,896. 8 Claims. (Cl. 303—6.)

1. The combination with a controller and a brake valve, of a fluid pressure operated switch device for controlling the power circuit to the controller and means controlled by said controller for controlling a communication through which fluid under pressure is supplied from the brake valve to said switch device.



7. In a brake and power control apparatus, the combination with a controller, of a fluid pressure operated switch for controlling the power circuit to said controller, a brake valve for supplying fluid under pressure to said switch device in release position and for venting fluid under pressure from said switch device in the brake applied positions of the brake valve, and a valve operated by said controller for supplying fluid under pressure to said switch device only in the off position of the controller.

1,424,008. WASHER. PAUL W. FLEISCHER, Weehawken, N. J. Filed July 21, 1921. Serial No. 486,379. 1 Claim. (Cl. 85—50.)



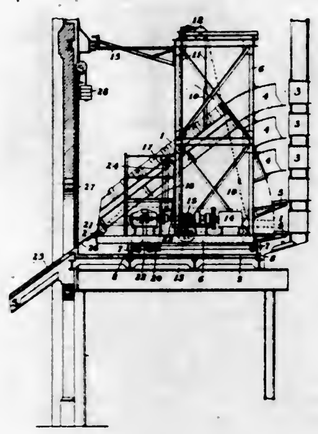
A washer comprising a tubular or neck portion and a flange extending outwardly at one end of said neck portion, the said neck portion being provided with a plurality of pairs of notches, open at the end of said portion opposite to the flanged end, and having their bottom walls at different distances from said flanged end.

1,424,009. BASKET HANDLE AND LID FASTENER. GEORGE R. FOWLER, Marlboro, N. Y. Filed Nov. 30, 1921. Serial No. 518,952. 6 Claims. (Cl. 217—125.)



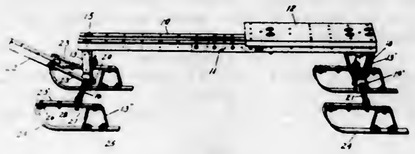
1. A basket having a pliable handle, coacting fastening means adjacent the free ends of the handle, and one of said means being pivotable to the other means to engage the basket lid.

1,424,010. DISCHARGE CHUTE. RALPH ERNEST GIBSON and HERBERT NICOLL, Liverpool, England. Filed May 13, 1922. Serial No. 560,691. 5 Claims. (Cl. 214—18.)



1. A discharge chute mechanism for furnaces of the type having carbonizing chambers arranged in superposed tiers, comprising in combination, a carriage arranged to travel along the furnace front; a plurality of superposed tubular guides mounted on said carriage in position to register with successive tiers of said chambers; and a tube movably mounted on said carriage so as to be capable of registering selectively with said tubular guides.

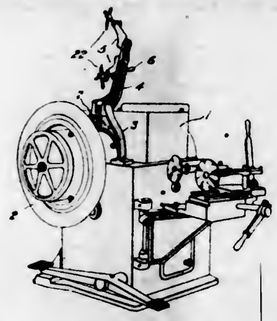
1,424,011. SLED. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 10, 1919. Serial No. 288,948. 19 Claims. (Cl. 280—14.)



17. A detachable runner frame for a toy vehicle including a bearing member secured thereon comprising a strip having an end thereof bent to form a circular loop.

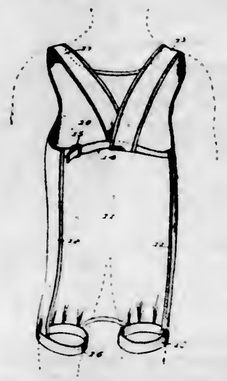
1,424,012. TRIMMING DEVICE. FRANK H. GROVE, Columbiana, Ohio, assignor to The Banner Machine Company, Columbiana, Ohio, a Corporation of Ohio. Filed Mar. 16, 1920. Serial No. 366,269. 6 Claims. (Cl. 164—38.)

1. In combination with a rotatable tire building core, a trimming device including a swinging arm pivoted adjacent said core and arranged to be swung into position above the core, means for automatically stopping the arm in the desired position, individual arms pivotally mounted upon said swinging arm and arranged to be located upon opposite sides of the core when the swinging arm is moved into operative position and trimming knives carried by



said individual arms and arranged to be moved toward the core by the swinging movement of the individual arms.

1,424,013. CREEPER BIB. METHEL F. HALE, Grover Hill, Ohio. Filed Apr. 18, 1922. Serial No. 554,844. 2 Claims. (Cl. 2—54.)



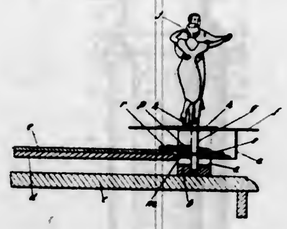
1. A garment of the type indicated having front body and skirt members and a looped strap formed as an extension of the body member at the upper edge of the latter and opposite sides of the same to provide right and left shoulder straps, a belt connecting the opposite edges of the skirt member and extending through the loop of the shoulder strap, and leg engaging members provided through the lower edge of the skirt member.

1,424,014. SPRING GUARD FOR VEHICLES. LOUIS H. B. HAND, Harvey, Ill. Filed Jan. 23, 1922. Serial No. 531,263. 10 Claims. (Cl. 293—55.)



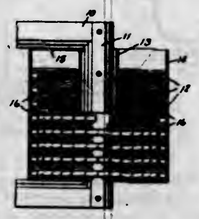
4. A guard comprising a pair of elliptical spring members, each having a secondary loop at an end thereof, each having reversely curved front and back portions diverging from the ends of the loop toward the transverse medial line of the spring member an additional spring member of general arcuate or bow-shape, means for clamping the end portions of the second named spring member to the front portions of the elliptical spring members intermediately of the latter, and means for attaching the back portions of the elliptical spring members to a support.

1,424,015. MECHANICAL TOY OPERATED BY GRAMOPHONES. HERBERT JOSEPH HASTINGS and CHARLES ST. VINCENT SMITH, East Twickenham, England. Filed Sept. 2, 1921. Serial No. 498,030. 6 Claims. (Cl. 46—40.)



1. A mechanical toy for use in combination with a phonograph of the disc-record type, comprising a weighted frame, a stationary horizontal table of non-magnetic material carried thereby, an upright magnetized spindle mounted to revolve in bearings in said frame, the upper end of said spindle projecting through an aperture in the table, a disc fixed concentrically upon the spindle, a floating disc of non-magnetic material centrally apertured so as to give free passage to said spindle and to be adapted to rest upon the margin both of said fixed disc and also of a phonograph-turntable, an armature of magnetic material adapted to rest upon and slide easily over the surface of said table, and a figure carried by said armature, substantially as and for the purpose set forth.

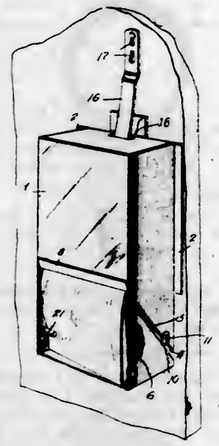
1,424,016. ELECTRICAL APPARATUS. LAWRENCE A. HAWORTH, Dalton, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 13, 1920. Serial No. 416,677. 5 Claims. (Cl. 175—356.)



1. In an electrical apparatus, the combination with windings composed of coils in assembled relation, of spacing devices for holding said windings in spaced relation, each of said devices comprising a member having portions extending over the faces of a coil, and filling members engaged in interlocked relation with said first member.

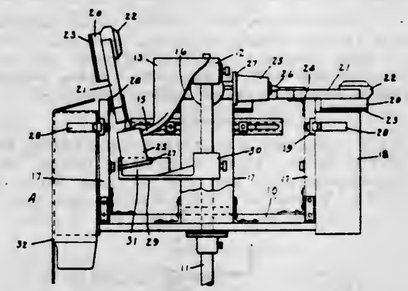
1,424,017. BAG HOLDER. CARL R. HELLSTROM, Minneapolis, Minn. Filed Jan. 23, 1922. Serial No. 531,238. 10 Claims. (Cl. 24—2.)

1. A dispensing device comprising, in combination, a casing, an opening in the front of the casing, a bar adjacent one end of the opening to retain the ends of objects to be dispensed, a depressed edge at the opposite side of the opening, and means in said casing to move said objects toward said opening.



2. A dispensing device comprising, in combination, a casing having an opening adjacent one end of its front, means in said opening to retain the ends of objects to be dispensed, a diagonal guide-way carried by the side walls of said casing opposite said opening, means working in said guide way to press objects towards said opening.

1,424,018. CARTON SEALER. GEORGE K. HENDERSON, Indianapolis, Ind., assignor to International Printing Company, Indianapolis, Ind., a Corporation. Filed July 2, 1921. Serial No. 482,079. 10 Claims. (Cl. 93—36.)

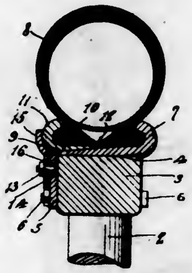


1. A sealing machine for paper receptacles having means for supporting a receptacle, means for clamping and sealing said receptacle under pressure, and a separate means for actuating said clamp and sealing means for causing the same to automatically release said receptacle for permitting its removal and replacement, and thereafter causing said clamping and sealing means to be automatically brought to operative position.

1,424,019. SECTIONAL TIRE RIM. HAL HENRY HIVELY, Tar River, Okla. Filed Dec. 30, 1916. Serial No. 139,728. 1 Claim. (Cl. 301—11.)

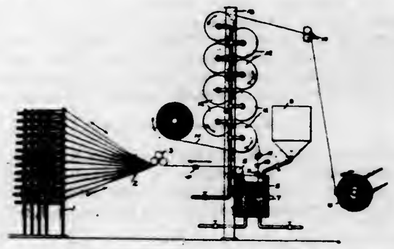
A demountable rim comprising a major section having a tire retaining flange and a radially inwardly extending flange, a tire retaining section seated on the major sec-

tion and a plurality of clips pivoted to the inwardly extending flange of the major section so as to engage or disengage the tire retaining section, the inwardly extend-



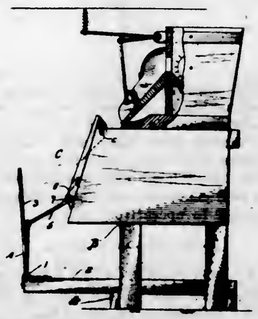
ing flange of the major section being provided with holes intermediate of the clips for the reception of means to secure the rim to the wheel.

1,424,020. PROCESS FOR THE PRODUCTION OF FABRICATIONS OF RUBBER AND FILAMENTARY MATERIAL AND PRODUCTS OBTAINED THEREFROM. ERNEST HOPKINSON, New York, N. Y. Filed Apr. 22, 1921. Serial No. 463,694. 17 Claims. (Cl. 154—2.)



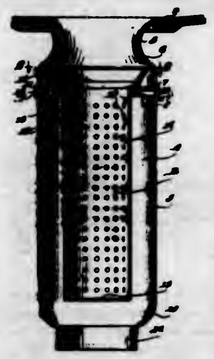
1. A process of the kind described which comprises coating warplike elements with rubber latex, maintaining the warplike elements in unwoven relationship and forming an unwoven sheet in which the warplike elements are joined together by rubber deposited from latex.

1,424,021. BREAST-ACTUATING MECHANISM FOR COTTON GINS. JAMES R. HUBBARD, Duncan, Okla. Original application filed Aug. 25, 1919, Serial No. 319,666. Divided and this application filed Sept. 2, 1920. Serial No. 407,774. 1 Claim. (Cl. 19—48.)



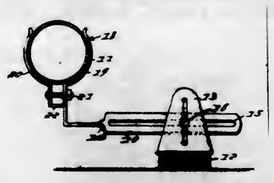
The combination with a gin having a base, beams extending from said base, a pivoted breast hung from its fulcrum, of a rock shaft journaled on said beams, an arm on said rock shaft, a handle for said rock shaft, a link pivoted to said arm and to said breast below the fulcrum of the latter, whereby the breast will move upwardly from its lower end in opening and will return to closed position of itself and by gravity.

1,424,022. SINK STRAINER. PATRICK LACOSTE, San Antonio, Tex. Filed Mar. 8, 1920. Serial No. 365,987. 4 Claims. (Cl. 4—35.)



1. The combination of a body having a drain aperture, of an attachment therefor including a casing arranged to surround the drain aperture, a strainer associated with the casing and spaced from the casing throughout its entire length, and a transversely curved bead formed on the upper end of the casing arranged above the strainer and to partially overhang said strainer.

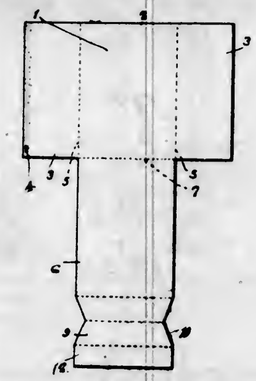
1,424,023. RECORD-WIPER FOR PHONOGRAPHS. CHARLEY LANDGRAF and JOHN HERNACKI, Chicago, Ill. Filed Apr. 17, 1922. Serial No. 553,375. 2 Claims. (Cl. 274—1.)



1. A record wiper for phonographs and similar machines having a supporting arm provided with means for engagement with a phonograph sound arm, and a brush having a body portion consisting of a plate arranged in contact with said arm and adjustably mounted thereon for arrangement in advance of the sound box needle, the supporting arm having a longitudinal slot and the body portion of the brush being provided with a corresponding slot extending at right angles thereto for mutual engagement by a set screw to provide for adjustment of the brush in directions parallel with and transverse to the length of the supporting arm.

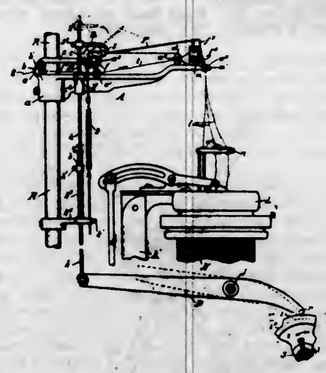
1,424,024. ENVELOPE. REUBEN A. LARSEN, Pasadena, Calif. Filed May 3, 1918. Serial No. 232,232. 1 Claim. (Cl. 229—66.)

An envelope formed from a blank and having a front wall, laterally extending wing means on said front wall foldable thereover to provide a compartment, a rear wall substantially similar to said front wall extending therefrom at substantially a right angle to said wing means and foldable over and against said wing means, a closure flap extending from the rear wall folded into a loop, said loop being insertible into one end of the envelope intermediate said front wall and said wing means, where-



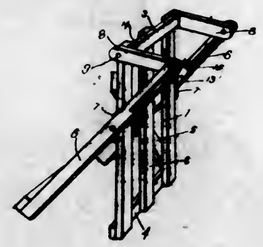
by a pocket is afforded exteriorly of said compartment adapted to be torn along the fold line between said loop and the rear wall during opening thereof without danger of tearing the contents of said compartment.

1,424,025. AUTOMATIC TENSION-CONTROLLING MEANS FOR KNITTING MACHINES. JOHN LAWSON, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Mar. 2, 1914. Serial No. 821,867. 1 Claim. (Cl. 66—9.)



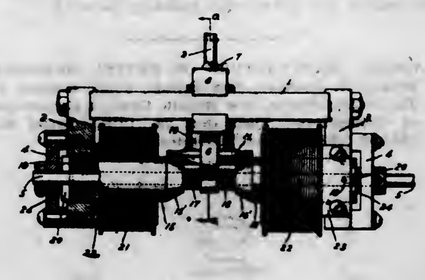
A circular knitting machine having in combination a plurality of guides for a corresponding plurality of threads, a corresponding plurality of take-ups, and a corresponding plurality of pivoted tension devices, one for each of said threads, each take-up and its corresponding tension device being structurally distinct and independent from all the other said take-ups and tension devices, and each pivoted tension device having a part to be engaged by the corresponding take-up, thereby to render the same active or inactive, a cam shaft, means thereon having a corresponding plurality of cam elevations and depressions, said elevations and depressions controlling the position of the corresponding take-up and tension device for circular work and the position of the take-ups and tension devices for reciprocating work, a corresponding plurality of levers adapted to engage said cam elevations and depressions respectively, link like members extending upwardly from said levers and having rectilinear movement, a controller member carried by each of said link like members and movable therewith, and a separate spring to act on each controller member, each of said controller members being structurally free from but adapted periodically to be brought into pushing contact with its take-up to depress the same and to release the corresponding tension device.

1,424,026. BAG HOLDER. BENJAMIN F. MILLER, Vienna, Va. Filed June 22, 1921. Serial No. 479,556. 4 Claims. (Cl. 83—26.)



1. In a bag holder, a frame comprisign an inclined back piece, a pair of legs secured to said back piece and forming with the lower edge of said back piece a base of support for said bag holder, means secured to said back piece extending above the plane of said back piece for holding the mouth of a bag in opened position, said legs being constructed to support the back piece at an angle to the vertical of sufficient acuteness that the center of mass of a bag held thereby will be without the base of support of said bag holder.

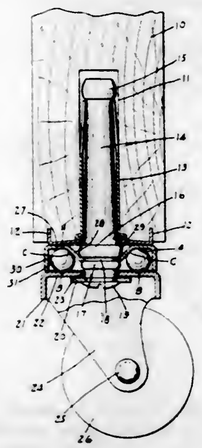
1,424,027. ELECTROMAGNETIC CLUTCH AND REVERSING MECHANISM. EDWIN J. MURPHY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,587. 4 Claims. (Cl. 74—26.)



1. An electro-magnetic gear clutch and reversing mechanism, comprising a driving shaft, two gears of magnetic material splined to the shaft so as to be capable of moving independently lengthwise of the same, a driven shaft supporting a gear of magnetic material in proximity to the driving shaft gears, springs for holding the latter gears normally out of engagement with the driven shaft

gear, and means for establishing selectively a local magnetic short-circuit including either of the driving shaft gears and the driven shaft gear.

1,424,028. BALL-BEARING CASTER. WILLIAM H. NOBLTING, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Jan. 27, 1922. Serial No. 532,165. 6 Claims. (Cl. 16—21.)



5. A caster including a pivot with a reduced portion, a centrally apertured cup having an inwardly and angularly extending annular portion surrounding the aperture and an outer annular depending apron portion, said cup being seatable in said reduced portion, a trackplate apertured and receivable by said pivot and pivotally supported thereby, and a plurality of balls in the raceway formed by said cup and said plate, said balls being of less diameter than the width of the raceway, whereby each ball will contact the cup and the yoke and but one of the annular cup portions, said apron portion being greater in depth than the radius of said balls and less in depth than the diameter of said balls for retaining the same in the raceway and guarding the same.

1,424,029. MANUFACTURE OF SWIVEL MEMBERS. STUART W. PARSONS, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 28, 1919. Serial No. 333,950. 1 Claim. (Cl. 59—9.)



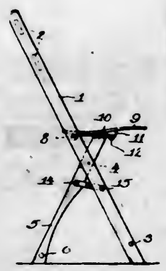
The improved method of manufacturing swivel members for hasp fasteners which consists in punching from a flat sheet of metal a blank having an unbroken ring and an integral post extending therefrom, then by suitable dies simultaneously shaping the ring and the post so that the blank is substantially circular in cross section and of uniform diameter in all parts, and then reducing one end of the post to thus form a pintle.

1,424,030. SHOEHORN. HARRY E. PECK, Waverly, N. Y. Filed June 24, 1921. Serial No. 480,046. 3 Claims. (Cl. 132—7.)



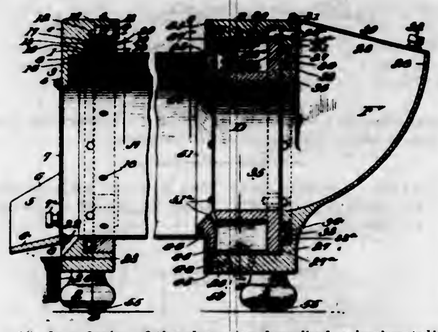
1. A shoe horn comprising a handle member, a plurality of transversely and longitudinally flexible fingers pivotally connected to one end of the handle member and adapted to be spread apart at their free ends for forming a shoe horn.

1,424,031. FOLDING CHAIR. PETER H. PETERS, Downers Grove, Ill. Filed Sept. 23, 1921. Serial No. 502,665. 4 Claims. (Cl. 155—143.)



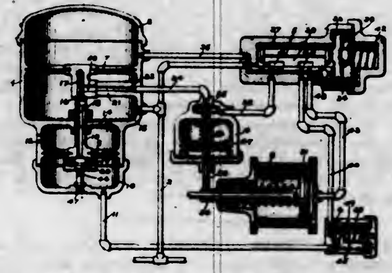
1. In a folding chair, a pair of tall risers connected by cross-bars, a pair of shorter legs pivoted thereto and adapted to aline therewith when the chair is folded, a seat, pivot straps secured to the seat and diverging downwardly from the seat forwardly thereof, and wedges disposed respectively between the straps and the bottom of the seat.

1,424,032. VEGETABLE PEELER. THEODORE H. PICKERING, Rochester, N. Y., assignor to Josiah Anstice & Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 14, 1921. Serial No. 500,547. 25 Claims. (Cl. 146—14.)



18. In a device of the character described, a horizontally supported rotatable peeling cylinder having open ends, and a water-actuated member surrounding the opening at one end of the cylinder.

1,424,033. FLUID-PRESSURE BRAKE. EARL M. RICHARDS, Wilkinsburg, Pa. Filed July 23, 1920. Serial No. 398,436. 18 Claims. (Cl. 303—36.)



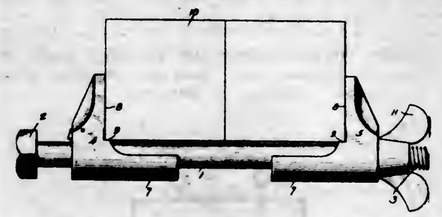
1. In a fluid pressure brake, the combination with a brake pipe, of means subject to the opposing pressures of the brake pipe and a chamber normally charged with fluid from the brake pipe for controlling the brakes and means operated upon an increase in brake pipe pressure above normal for preventing the charging of said chamber from the brake pipe.

11. In a fluid pressure brake, the combination with a brake pipe, brake cylinder, and valve mechanism subject to the opposing pressures of the brake pipe and a chamber normally charged with fluid under pressure from the brake pipe for controlling the application and release of the brakes, of means normally establishing communication through which fluid from the brake cylinder is released by said valve mechanism and operated upon an increase in brake pipe pressure above normal for cutting off said communication and for opening another communication through which fluid is released from the brake cylinder.

14. In a fluid pressure brake, the combination with a brake pipe, brake cylinder, and a valve mechanism subject to the pressures in the brake pipe and brake cylinder for controlling the brakes, of means operated upon an increase in brake pipe pressure above normal for controlling the release of the brakes.

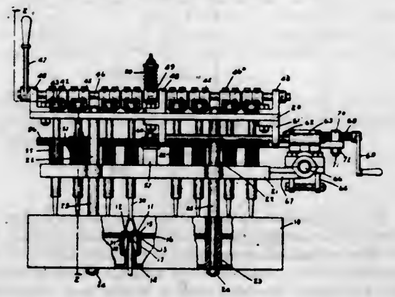
1,424,034. CLAMP. HERMAN RIGERT, Brooklyn, N. Y. Filed May 4, 1921. Serial No. 466,714. 2 Claims. (Cl. 144—303.)

1. As a new article of manufacture, a clamp including a rod, a pair of clamping jaws slidable and rotatable on the rod, substantially semi-cylindrical bearing bosses integral with the jaws and presented towards each other, said



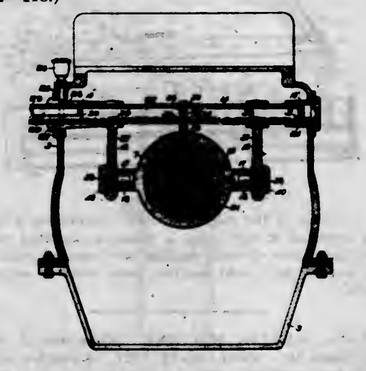
bosses and jaws being located on opposite sides of the rod, whereby to brace the jaws against strain.

1,424,035. MULTIPLE-VALVE-GRINDING MACHINE. ROBERT M. ROOF, Anderson, Ind. Filed Oct. 29, 1920. Serial No. 420,459. 6 Claims. (Cl. 51—29.)



1. In a valve grinder, a frame, a valve engaging and driving member, a holder in said frame for said driving member, a pin and slot connection between said holder and said valve engaging member permitting longitudinal but preventing rotational movement therebetween, yielding means associated with said valve engaging member and said holder for normally maintaining the valve engaging member in valve engaging position, means for oscillating said holder, and means for raising and lowering said holder in said frame.

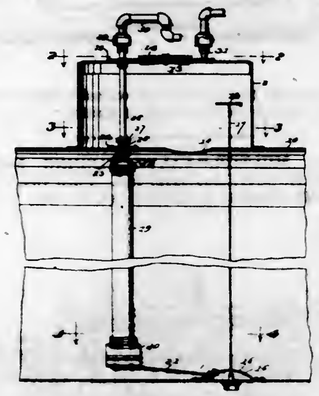
1,424,036. CLUTCH. DELMAR G. ROOS, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Aug. 8, 1918. Serial No. 248,878. 9 Claims. (Cl. 192—113.)



1. In a clutch, the combination of a rotatable thrust member, a thrust collar, a thrust collar operating rock

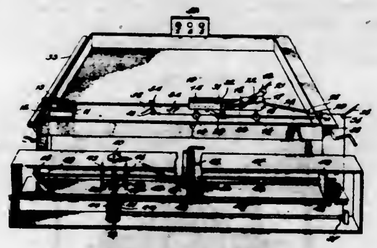
shaft, and thrust collar lubricating means including an oil reservoir and oil absorbing means interposed between said reservoir and said thrust collar.

1,424,037. TANK-CAR-LOADING DEVICE. EMETT H. RUDOLPH, Pershing, Okla. Filed Nov. 18, 1920. Serial No. 424,954. 6 Claims. (Cl. 220—86.)



6. The combination with a tank car having a hull and a dome surmounting the hull and in communication therewith by a manhole in the shell of the hull, said dome being provided with a manhole fitted with a removable plug, and the hull being provided with a bottom vent valve and a guard strap spanning the same, of a loading and unloading device having relatively enlarged and reduced pipe sections arranged respectively in the hull and dome and connected by a reducer arranged adjacent to the top of the hull and supported thereon by a flange nipple, and a vacuum vent pipe in communication with the interior of said dome.

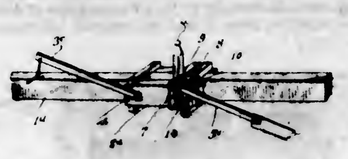
1,424,038. SWIMMING RACE. RYUJI SATO and CHIYOSABURO MATSUI, New York, N. Y. Filed Jan. 3, 1921. Serial No. 434,664. 6 Claims. (Cl. 46—56.)



2. A device of the class described, comprising a tank, a track mounted in said tank, a manikin mounted on said track, and means operable to draw said manikin along said track and to move said manikin from erect to swimming posture.

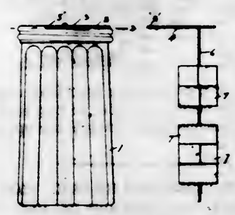
1,424,039. SAWING MACHINE. FLETCHER J. SCOTT. Hurdland, Mo. Filed June 27, 1921. Serial No. 480,875. 2 Claims. (Cl. 143—68.)

1. A cross-head or guided means constituting a connection between a means for producing reciprocating motion, and a saw reciprocated thereby, and an element pivoted to



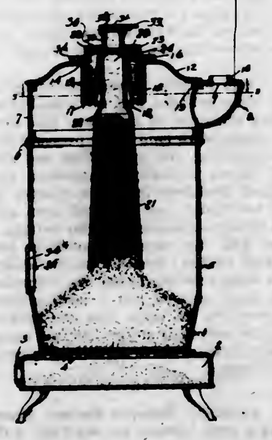
said cross-head on an axis parallel to its reciprocating motion, to which element the saw is attached.

1,424,040. SALTCELLAR. JOHN E. SCOTT, Philadelphia, Pa. Filed Sept. 20, 1921. Serial No. 501,957. 1 Claim. (Cl. 65—37.)



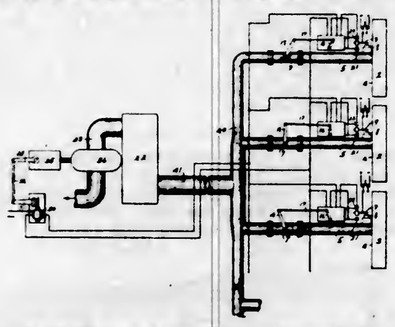
In a salt cellar, a receptacle, a cover therefor having a segmental delivery slot in the side thereof, a quadrant-shaped metallic member pivoted to the under side of the central portion of the cover and including an offset portion movable through the slot and acting as an operating member and a slot cleaner, the edge portion of the plate being in the plane of the delivery slot and adapted to close the latter, and an agitator formed with the metallic plate and constituting a strip projecting downwardly therefrom, said agitator including angular cutting blades deflected laterally in various directions by bending the metal of which the strip is formed.

1,424,041. FUEL FEED FOR HEATING DEVICES. FREDERICK SANFORD SEYMOUR, Manchester, Iowa. Filed Oct. 8, 1921. Serial No. 506,280. 7 Claims. (Cl. 126—73.)



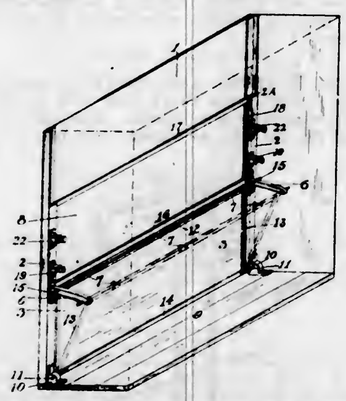
1. In a heating device, the combination with the fire pot, of a fuel feed tube depending towards the centre of the fire pot and having an open upper end, a steam generator into which the open upper end of the feed tube extends, and means for directing the water overflow into the fire pot.

1,424,042. AUTOMATIC REGULATOR FOR COKE OVENS. WILMER M. SHALLCROSS, Milwaukee, Wis., assignor to Northwestern Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 27, 1919. Serial No. 326,847. 8 Claims. (Cl. 48—173.)



1. The method of automatically regulating the pressure of gas in a series of gas producing chambers having separate connections with a common outlet, consisting in continuously exhausting gas from the outlet, separately throttling the connections between the respective chambers and the outlet, in inverse correspondence to the pressure in such chambers, and separately varying the rate of gas withdrawal at the outlet when the degree of variation in any duct exceeds a predetermined limit.

1,424,043. PROTECTING DEVICE FOR SHOW WINDOWS. MAX A. SKALL, New York, N. Y. Filed July 25, 1921. Serial No. 487,280. 5 Claims. (Cl. 20—40.)

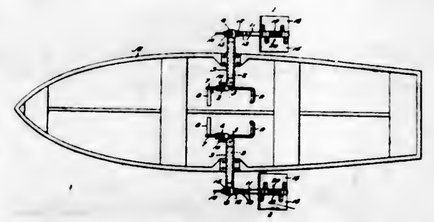


1. In a device of the kind described a glass plate forming the front of a show window, a movable frame holding a second plate or screen slidably mounted parallel to said first plate, and a vertical glass shield adapted to rotate about its lower horizontal edge and forming means to support said frame.

1,424,044. BOAT. JOSEPH SOLACK, Scranton, Pa. Filed Apr. 26, 1921. Serial No. 464,659. 3 Claims. (Cl. 115—21.)

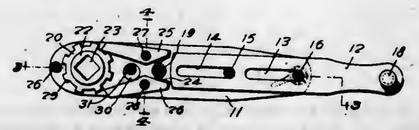
1. A propelling apparatus for boats comprising a shaft arranged in a horizontal bearing and having the latter

secured to one side of a boat, a socket member secured to the outer end of said shaft and a crank secured to the inner end thereof, a guideway provided on said crank, a flat bar slidably mounted in the latter and a handle provided on said bar at the upper end and a foot piece at the lower end thereof, means for holding the bar in



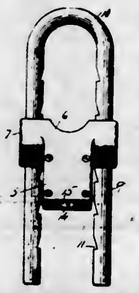
adjusted position in said guideway, a stem adapted to engage the socket member and adjustaly mounted therein, means for preventing turning movement of the stem in the socket member, a pair of blades hinged to the lower end of said stem, stops provided on said blades and a projection provided on said stem for engaging said stops.

1,424,045. RATCHET CRANK. GEORGE EDWIN SPRAGUE, Cambria, Ill. Filed Sept. 12, 1921. Serial No. 499,888. 1 Claim. (Cl. 74—54.)



A ratchet crank comprising plates spaced apart by members holding such plates rigidly in spaced position, a ratchet rotatable between the plates and having hubs extending outwardly through the plates perforated by a multi-angular opening, ratchet detents pivoted between the plates, a spring tending to hold the ratchet detents in engagement with the perimeter of the ratchet, a cam operable from the exterior of the plates capable of throwing either of the ratchets out of operating relation, an arm slidable longitudinally between the plates, means to secure the arm at an adjusted position, and a handle adjacent the end of the arm.

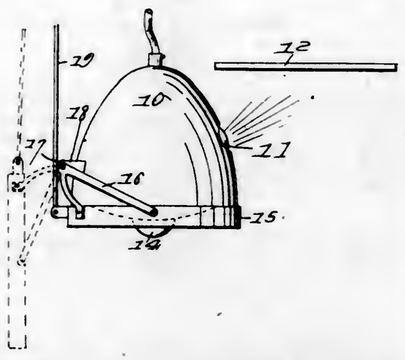
1,424,046. LOCK. ELMER B. STONE, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Dec. 16, 1921. Serial No. 522,738. 6 Claims. (Cl. 70—108.)



3. A lock case including a stem member and a cross member providing wings on opposite sides of said case,

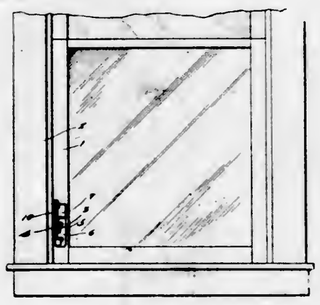
said members being located at an oblique angle each to the other, a shackle comprising arms extending through the wings on opposite sides of said stem, mechanism located in said stem to be operated by a key positioned at an oblique angle to said shackle arms, and members included in said mechanism and adapted to engage and hold said shackle arms.

1,424,047. TAIL LIGHT FOR AUTOMOBILES. AUGUST O. SVEDAHL, Marmarth, N. Dak. Filed July 12, 1920. Serial No. 395,586. 1 Claim. (Cl. 240—7.)



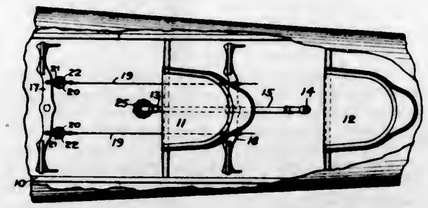
A tail light for automobiles and similar vehicles having a lamp of which the casing is provided with a rearwardly directed illuminating lens and an annular frame adapted for arrangement in co-extensive relation with a rear end of the casing and having a pivoted carrying bracket, means for moving the said frame into and out of position in registration with the casing, and a signal lens carried by said frame for displacement in light intercepting relation with the illuminating lens, and disposed in a light penetrable medium co-extensive with said illuminating lens.

1,424,048. WINDOW LATCH. JOSEPH SZALAY, Vicksburg, Miss. Filed Mar. 14, 1921. Serial No. 452,105. 1 Claim. (Cl. 292—228.)



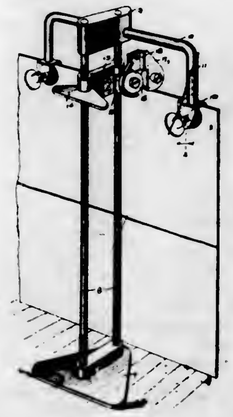
A sash lock comprising a stud on the frame, a plate on the sash, a second plate pivoted to the first plate and arranged at right angles thereto, an offset portion provided on said plate and having a recess therein and rolled over to provide an eye, said plate including a movable plate and a pivot pin carried thereby with which the eye engages so that the movable plate is pivotally secured, a spring engaging said pivot pin and having one end bent over to engage a small hole in the movable plate and its other end engaging a notch formed in the first mentioned plate, a pin carried by the movable plate to engage the offset portion of the first mentioned portion of the first mentioned plate for limiting the movement of the movable plate, the pivoted plate having a notch therein and beveled edge leading to the notch and a stud adapted to be secured to the opposite part of which the plate is secured and arranged to engage the beveled edge of the plate when the sash is being closed to force said plate outwardly and to come opposite the notch at the end of the closing movement so that the spring will place the notch in engagement with the stud.

1,424,049. DUAL CONTROL FOR AIRPLANES. BENJAMIN DOUGLAS THOMAS, Ithaca, N. Y., assignor of one-tenth to Thomas-Morse Aircraft Corporation, Ithaca, N. Y., a Corporation of New York. Filed July 3, 1919. Serial No. 308,584. 8 Claims. (Cl. 244—29.)



1. In an airplane, the combination of dual manual control members, one for instructor and one for pupil, and a connection between said members normally adapted to move the same in unison, said connection including an elastic element adapted to yield under a greater than normal stress, and to return to normal condition when said greater stress is removed, independently of the amount of flexure.

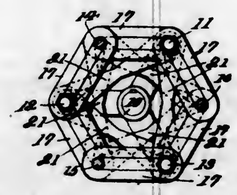
1,424,050. SUPPORT AND CUTTER. HOCKLEY M. THOMAS and MARTIN FOGEL, New York, N. Y.; said Fogel assignor to said Thomas. Filed JAN. 3, 1921. Serial No. 434,659. 10 Claims. (Cl. 164—73.)



1. A supporting device for material adapted to lie in a vertical plane, including a base, a column extending upwardly from said base, a traveler slidably mounted upon said column, cutting means for said material secured to said traveler and means connecting said column with the material to be cut at a point adjacent the upper edge of the latter.

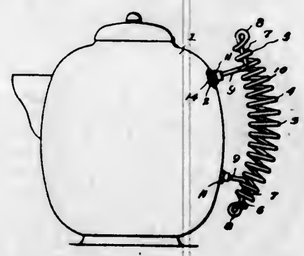
1,424,051. UNIVERSAL JOINT. HERBERT N. WAYNE, Washington, D. C. Filed Dec. 23, 1920. Serial No. 432,672. 9 Claims. (Cl. 64—97.)

9. In a power coupling, a series of studs extending from each coupling member, and a flexible loop for connecting pairs of said studs, said loop being formed of cords laid one upon the other and the loops formed by joining each side portion thereof between the ends with the opposite side portions to form a crossing of said



intermediate portion, the cords of the several layers in one portion joining with the cords of the other portion in reverse arrangement, as and for the purpose set forth.

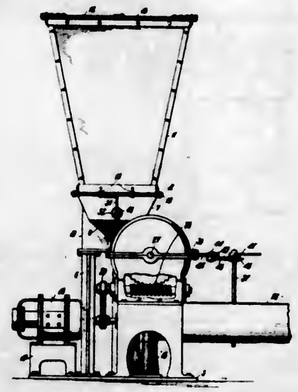
1,424,052. HANDLE. EMIL A. WEIBEL, Fairbank, Iowa. Filed Apr. 8, 1921. Serial No. 459,815. 1 Claim. (Cl. 16—120.)



A detachable handle constructed from wire bent to form convolutions, and L shaped ends a portion of which is arranged within certain of said convolution, and nuts for clamping the ends to an article.

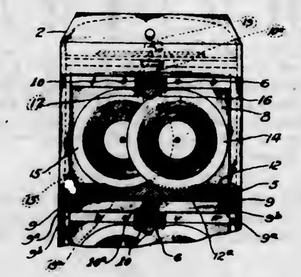
1,424,053. PULVERIZED-FUEL CARBURETOR AND FEEDER. WILLIAM H. WHITAKER, Shelbyville, Ill., assignor to American Atomized Fuel Company, Shelbyville, Ill., a Corporation of South Dakota. Filed Oct. 5, 1920. Serial No. 414,926. 2 Claims. (Cl. 302—42.)

1. A fuel feeder and carburetor comprising a hopper, a cylindrical chamber at its lower end and communicating therewith, a roller in the chamber having a plurality of parallel grooves in its periphery, a plurality of slidable members mounted in the grooves and capable of filling all or part of the latter, a slidable member to which the slidable members are connected, a fan having an inlet and outlet, an air pipe communicating therewith, a passageway communicating with the chamber and fan, a shaft journaled in the air pipe, a valve fixed thereto, a forked lever pivotally mounted at one end and having operative connection with the slidable member, a link pivotally connected with the opposite end of the lever, an arm fixed to the shaft and operatively connected with the link, an operating handle on the shaft whereby to simultaneously control the valve and shift the slidable



member to position the slidable members at the desired point in the grooves, a motor for driving the fan, and driving means between the motor and feed roller.

1,424,054. PHONOGRAPH-RECORD CABINET. ALFRED WIEHL, Brooklyn, N. Y. Filed Oct. 11, 1920. Serial No. 416,126. 6 Claims. (Cl. 211—16.)

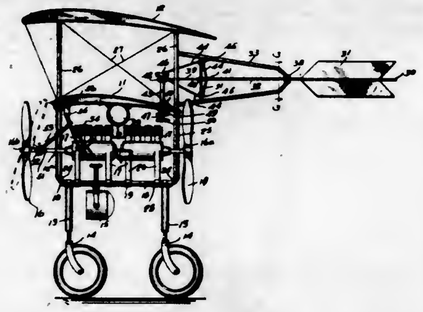


2. A phonograph record cabinet comprising a drawer, a fixed front and floor therefor and a fixed medial longitudinal member extending from the top of the front and rigidly connected to the floor at the rear, a series of parallel grooves in said floor and extending inwardly from each side thereof, a relatively depressed grooved section formed in adjacent grooves alternately on opposite sides of the middle of the drawer, adapted to engage a substantial portion of the periphery of a record.

1,424,055. AEROPLANE. EUGENE WILDER, Boulder, Colo. Filed Aug. 9, 1921. Serial No. 490,907. 2 Claims. (Cl. 244—14.)

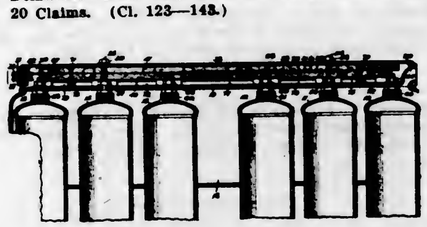
1. An aeroplane comprising a body frame enclosed by screen material and separated by vertical partitions into compartments, said frame comprising bottom members and standards rising from the bottom members, upper and lower planes, the lower plane being supported on said

body frame and the standards of said body frame being extended upwardly beyond the bottom plane and con-



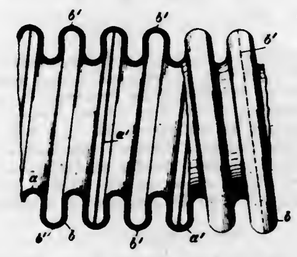
stituting supporting posts for the upper plane, there being additional posts between the upper and lower planes beyond the body frame.

1,424,056. IGNITION APPARATUS FOR INTERNAL-COMBUSTION ENGINES. NIKLAS WINBLAD, Stepney, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed July 18, 1918. Serial No. 245,489. 20 Claims. (Cl. 123—143.)



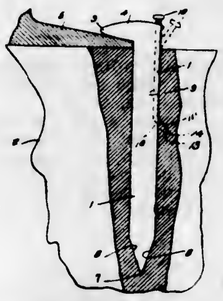
1. In an ignition apparatus for internal combustion engines, the combination of a spark-plug, a cable leading to said spark-plug, and a divided housing presenting a longitudinal chamber formed partly within each division and enclosing said cable, the latter being received partly in each division.

1,424,057. FLEXIBLE METAL HOSE. EMIL WITTENMANN, Pforzheim, Germany. Filed Apr. 29, 1921. Serial No. 465,515. 2 Claims. (Cl. 137—70.)



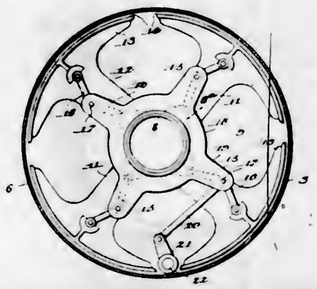
1. A flexible metal hose, consisting of two single hose one arranged inside the other and each formed by winding a metal band of a similar corrugated cross-section into the shape of a cylindrical spiral, the adjacent edges of the windings of the band forming the outer hose being joined by welding and the edges of the inner hose being adapted to be displaced relatively to each other.

1,424,058. SPIKE. WILLIAM W. YEHLING, Butte, Mont. Filed June 29, 1920. Serial No. 392,705. 1 Claim. (Cl. 85—23.)



A spike having a substantially longitudinally disposed grooves in a side wall thereof, and a deflecting surface at the base of said groove, an anchoring pin for insertion into said groove, said pin having a deflected surface at its lower end for cooperation with said surface to deflect the lower end of said pin into the element receiving the spike, said pin being provided with a bevelled surface extending from the opposite side of the spike to its deflected end aforesaid in order to prevent engagement of the lower end of the pin with said element until deflected thereinto through coaction of the deflecting surface.

1,424,059. BRAKE. GEORGE B. YOUNGS, New York, N. Y. Filed May 11, 1920. Serial No. 380,458. 4 Claims. (Cl. 188—79.)

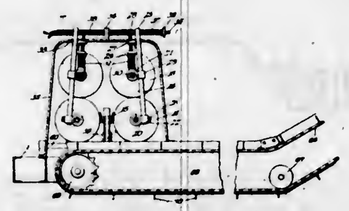


1. In a device of the class described, the combination of a brake drum; a plurality of brake blocks movable radially thereof; a pair of toggle links for each of said blocks, each of said pairs having one link pivoted to the respective block and the other to a stationary part; and a web mounted for rotary movement and connected to each pair of toggle links at their knuckle.

1,424,060. HUSKER. GEORGE W. ZEISS, Ethan, S. Dak. Filed Mar. 4, 1922. Serial No. 541,151. 2 Claims. (Cl. 130—5.)

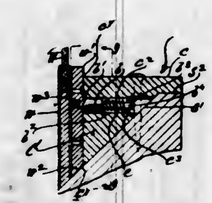
1. In a corn husking machine the combination, a wheeled frame, snapping rolls supported at a downward angle from the front thereof, said rolls having fluted bodies and conical threaded lower ends, a guard to the outer side of each of the rolls, husking rolls horizontally supported in superimposed pairs on the frame, spring means influencing the upper toward the lower husking rolls, a trough at the outer side of the snapping rolls and between the cooperating

pairs of husking rolls, an endless conveyor in the trough, means for operating the same, means for simultaneously revolving the snapping and husking rolls, means receiving



the corn from the husking rolls to deliver the same to one side of the frame, and operating means for said last mentioned means.

1,424,061. SECURING MEANS FOR AUTOMOBILE TOP CLOSURES. HARRY E. ADAMS, New York, N. Y. Filed Mar. 7, 1921. Serial No. 450,375. 4 Claims. (Cl. 296—45.)



1. Securing means for an automobile top closure panel of the character designated, comprising a plurality of automatic locking devices each consisting of a dovetail coupling tongue secured to the lower member of the panel frame, said coupling tongue being formed with a bolt mortise, a casing mounted on the car sill and formed with a dovetail groove for the reception of said dovetail coupling tongue on the panel, and a peak nosed spring bolt mounted in said casing and adapted to engage the said mortise in the coupling tongue, for the purpose described.

1,424,062. HIGH-TEMPERATURE DEVELOPMENT OF PHOTOGRAPHIC MATERIALS. ALEXANDER JOHNSTON AGNEW and FRANK FORSTER RENWICK, Ilford, England, assignors to Ilford Limited, Ilford, England. Filed Feb. 28, 1919. Serial No. 279,882. 10 Claims. (Cl. 95—88.)

1. A composition for treating gelatine-surfaced photographic materials for hardening them only, comprising a substance adapted to yield formaldehyde together with a relatively greater amount of a salt of the known class which tends to raise the melting point of a gelatine jelly and to retard or restrict the swelling of gelatine in water.

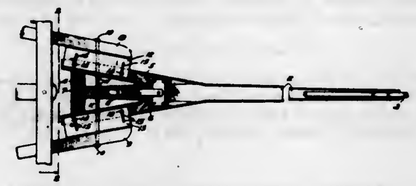
1,424,063. SHIM. JEFFERSON H. AKINS, Lewistown, Mont. Filed Oct. 23, 1916. Serial No. 127,282. 5 Claims. (Cl. 301—20.)

1. An auxiliary for clamping lugs of demountable rims comprising a strip of sheet metal having one end portion provided with a longitudinal slot to receive a bolt, the intermediate portion of the strip being bent to extend at right angles to said end portion a distance, the other end portion being bent inward over the said intermediate portion at an acute angle, and away from the first named end



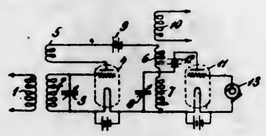
portion, and being extended beyond the junction of said intermediate portion and first mentioned end portion.

1,424,064. WAGON TONGUE. JOHN H. ANDERSON, St. Paul, Minn. Filed Apr. 3, 1918. Serial No. 226,421. 1 Claim. (Cl. 278—43.)



The combination, with the wagon hounds, of angle plates having their vertical flanges seated against the inner faces of said hounds and their horizontal flanges projecting into the space between said hounds, a tongue adapted to lie between said wagon hounds and having tongue hounds on which said horizontal flanges are seated, said horizontal flanges each having a plurality of transverse rows or holes therein through which the proper places for the bolt holes in the tongue hounds may be marked, bolts passing vertically through the holes in said horizontal flanges and through the holes made in said tongue hounds, and a horizontal bolt passing transversely through said wagon and tongue hounds and the vertical flanges of said plates.

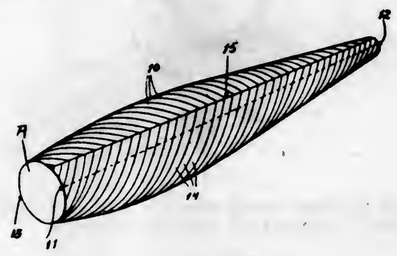
1,424,065. SIGNALING SYSTEM. EDWIN H. ARMSTRONG, Yonkers, N. Y. Filed June 27, 1921. Serial No. 480,563. 17 Claims. (Cl. 179—171.)



1. The method of amplifying varying electric currents which comprises impressing the varying potential of the current to be amplified upon a feedback system having a certain degree of damping, and periodically altering the relation between the amount of feedback and the degree of damping of the system, whereby super-regenerative action is obtained.

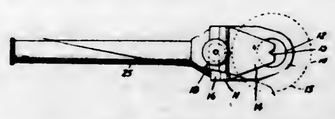
16. A vacuum tube regenerative system comprising a feedback circuit having damping and adjusted near the point of oscillation, an oscillating feedback circuit associated therewith and means by which it causes a periodic variation in both the amount of feedback and the damping of said first circuit, whereby super-regenerative action is obtained.

1,424,066. AEROPLANE FUSELAGE AND PROCESS OF BUILDING SAME. ERNOLD G. BAHL, Lincoln, Nebr. Filed June 24, 1921. Serial No. 480,215. 6 Claims. (Cl. 244—30.)



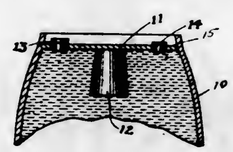
1. An aeroplane fuselage comprising a plurality of superposed layers secured together permanently, each layer being formed of a plurality of sections with the joints of the sections of the successive layers arranged in staggered relation, each section being formed of a plurality of strips.

1,424,067. GAUGE FOR LAMPS. RALPH BEMAN, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Mar. 20, 1920. Serial No. 367,507. 4 Claims. (Cl. 33—180.)



1. In a device for gauging the light center length of an incandescent lamp, the combination of sighting means, a holder mounted thereon for receiving the said lamp and means whereby said holder may be moved with reference to said sighting means, said device being provided with means whereby the extent of said movement may be indicated.

1,424,068. ATTACHMENT FOR HYDROCARBON CONTAINERS. JOHN BINGMAN, Mount Tabor, Wis. Filed June 19, 1919. Serial No. 305,250. 2 Claims. (Cl. 220—85.)



1. The combination with a liquid containing barrel, and the head thereof, of a downwardly flaring pocket mounted on the lower face of said head and projecting downwardly, its upper end being closed and its lower end open, for the purpose described.

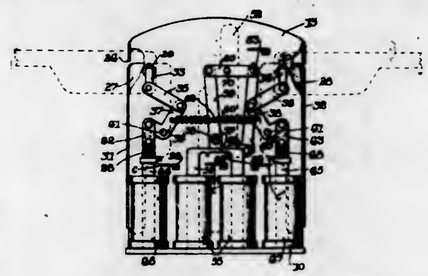
1,424,069. WRENCH. FRED W. BLACKMAR, Providence, R. I., assignor of one-half to Lewis M. Blackmar, Providence, R. I. Filed Apr. 22, 1921. Serial No. 463,628. 3 Claims. (Cl. 81—121.)

1. A socket wrench comprising a cylindrical head, a handle, and a shank connecting one side of the head and the handle, the said handle and one end of the head occupying substantially parallel planes, and the said shank extending diagonally beyond the said end of the head and between the same and the handle, and the juncture of the shank with the side of the head being spaced inwardly from the plane of the opposite end of the head,



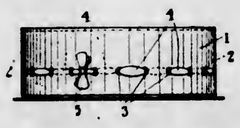
the internal wall of the head being provided with a circumferential series of notches to receive the corners of a nut or the like, and the head being exteriorly tapered circumferentially in the direction away from the juncture of the shank with the head.

1,424,070. AUTOMOBILE DIRECTION INDICATOR. JAMES B. BLAIR, Decatur, Ill.; Ora Mueller Blair administratrix of said James B. Blair, deceased. Filed Sept. 20, 1917. Serial No. 192,268. 3 Claims. (Cl. 177—337.)



1. In an indicator, the combination with a plurality of electromagnets adapted to be actuated upon change of motion of a vehicle, of a series of levers connected at one end to said electromagnets, crank arms connected at the opposite end to said levers, signal members on said crank arms indicating change of motion either lateral or cessational, two of said signal members projecting outwardly for lateral change and the other projecting upwardly for cessational change and common spring means for assisting the return of said signal members.

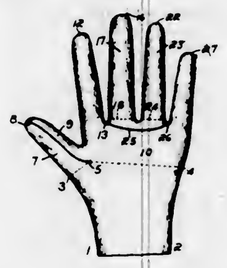
1,424,071. BOX AND THE LIKE. STANLEY SEPTIMUS BOOTT, London, England. Filed July 7, 1920. Serial No. 394,452. 1 Claim. (Cl. 229—46.)



A box comprising lid and body portions adapted to be telescopically engaged one with the other and having curved walls, holes spaced apart circumferentially in the wall of the lid portion, a band threaded through the
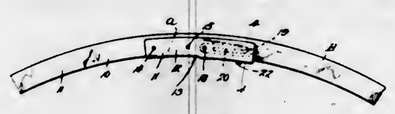
holes and stretched sufficiently taut between them to secure a firm frictional connection between the lid and body portions.

1,424,072. GLOVE AND METHOD OF MAKING SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed Sept. 6, 1918. Serial No. 252,965. 2 Claims. (Cl. 66—4.)



1. A knitted glove formed in one continuous piece and having a circularly knitted, seamless wrist and hand, and a thumb, and fingers integral with the hand, each finger being knitted as a flat, oppositely selvaged strip, the first and fourth fingers each being formed of a flat, oppositely selvaged strip of sufficient width to encircle the finger, and seamed only along their inner edges and being integral continuations of the hand, and the second and third finger strips being integral continuations of the back of the hand and being each of twice the length of the finger and seamed along their opposite edges, said second and third finger strips having as an integral knitted continuation thereof a strip of the width of both fingers, said continuation being seamed across the palm of the hand from the first to the fourth finger strips.

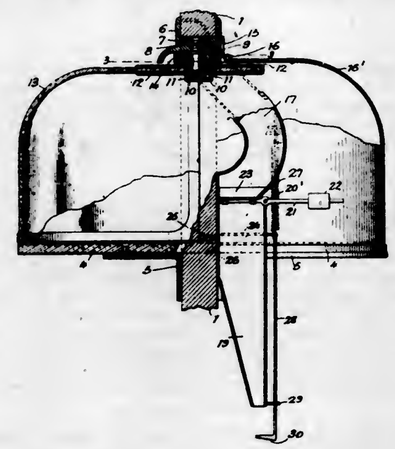
1,424,073. COLLAPSIBLE TIRE RIM. JOHN H. BOWLES, New York, N. Y. Filed Sept. 3, 1921. Serial No. 498,221. 3 Claims. (Cl. 301—34.)



1. A tire rim split at one point, the tire rim being trough-shaped in cross section, a lever trough-shaped in cross section and having longitudinally extending ears pivoted to one of the sections of the rim at their extremities and pivoted intermediate their extremities to the other section of the rim, whereby upon an oscillation of the lever the rim sections may be shifted into or out of alignment with each other, a socket formed in that end of the lever remote from its pivotal connection to the first named section, and means for locking the lever in a radial position with the rim sections in offset relation to each other.

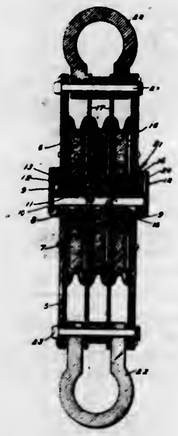
1,424,074. VENDING APPARATUS. EDWARD COLTON BOYCE, Washington, D. C. Filed June 7, 1922. Serial No. 566,574. 7 Claims. (Cl. 194—1.)

1. In a vending apparatus, the combination of a support provided with an opening, a shelf extending from one side of said opening, a rotatable cover for said shelf, means for securing said cover in closed position, coin



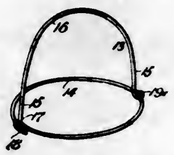
operated means for releasing said cover, and means for moving said cover to open position when released.

1,424,075. TRAVELING BLOCK. BURWELL BOYKIN, Jr., Beaumont, Tex. Filed Dec. 16, 1920. Serial No. 431,216. 1 Claim. (Cl. 254—192.)



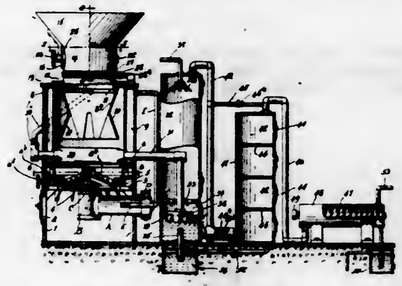
In a device of the character described, side plates having openings, a hollow shaft extending through the openings, said shaft having threaded ends, cups having threaded openings positioned over the threaded ends and adapted to engage the side plates to secure the same in position, spacing plates supported on the shaft and disposed between the side plates, said shaft having openings extending through the wall thereof, bearing members having openings and mounted on the shaft, pulleys disposed between the spacing plates and mounted on the bearings, said pulleys having openings to receive a lubricant from the hollow shaft.

1,424,076. CARRIER FOR BOTTLES, ETC. ANTHONY F. BRAUTIGAM, Buffalo, N. Y., assignor of one-half to Abraham M. Rudiger, Buffalo, N. Y. Filed Sept. 10, 1919. Serial No. 322,822. 1 Claim. (Cl. 215—108.)



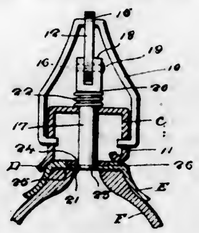
A bottle carrier constructed from a single piece of wire which is bent to form an upright U-shaped handle having two vertical upright arms and a bow connecting the upper ends of said arms, a horizontal supporting ring having a single split one end of which is integrally connected with the lower end of one of said arms and forms a corner therebetween, a hook formed integrally on the other end of said ring and engaging detachably with said corner, and an eye formed integrally with the lower end of the other arm of said handle and permanently embracing said ring diametrically opposite the hook thereof.

1,424,077. GAS PRODUCER AND PROCESS. ELBERT M. BRAXTON, Fort Worth, Tex., assignor of one-half to Mabel R. Spellman, Dallas, Tex. Filed Nov. 18, 1921. Serial No. 516,147. 4 Claims. (Cl. 48—66.)



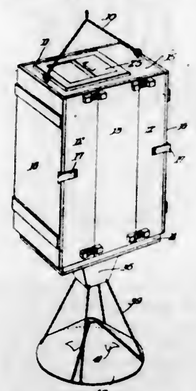
4. The herein described process for producing gas from lignite, which involves ignition of a bed of lignite of substantially cone shape on its under side and the constant rotation thereof to form gas, superheating the gas at a point adjacent to the apex of the under side of the bed, and then in conducting the gas after superheating to be cleaned, cooled and dried.

1,424,078. RIM FASTENER. WILLIAM BROADWAY and THOMAS C. PLEDGER, Oklahoma, Okla.; said Broadway assignor to said Pledger. Filed Apr. 11, 1921. Serial No. 460,215. 2 Claims. (Cl. 301—21.)



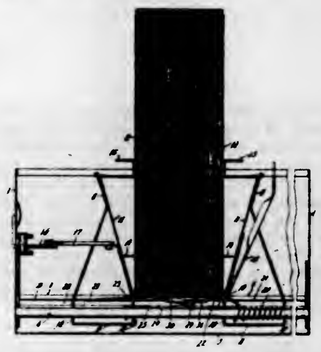
1. In a wheel including a felly and a demountable rim disposed thereon, means for locking the rim upon the felly comprising a series of locking devices disposed throughout the inner periphery of the felly and each comprising a spring pressed plunger slidable through the felly, a socket member carried by the inner periphery of the rim at each locking member and adapted to receive the plunger, and cam means for forcing said plunger outwardly into engagement with the socket.

1,424,079. POULTRY FEEDER. CHARLES EDWARD CANELL, Portland, Oreg., assignor of one-half to Edward T. White, Everett, Wash. Filed Oct. 24, 1921. Serial No. 509,909. 5 Claims. (Cl. 161—10.)



1. A feeder of the character described comprising a casing provided with filling means whereby grain may be introduced thereinto, the casing being provided in its bottom with an outlet opening, a trap door normally closing said opening, a spring-pressed catch engaging said trap door whereby to hold the same closed, and time controlled electrically operated means mounted within the casing for moving said catch out of engagement with the trap door, said means including a clock switch mounted directly within the casing.

1,424,080. FILING TRAY OR DRAWER. CHARLES C. CARPENTER, Cincinnati, Ohio, assignor to The Samuel C. Tatum Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 21, 1918. Serial No. 235,876. 11 Claims. (Cl. 129—16.)

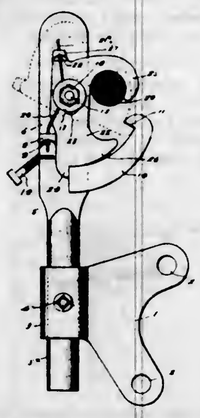


2. In a card filing drawer or tray, a casing, a pair of followers movably supported within the casing between which the cards to be filed are packed, each follower comprising a frame member, and a card engaging plate

hingedly mounted upon said frame for supporting the cards in inclined or upright positions.

9. In a device of the class described, a casing for supporting a pack of cards, a platform mounted within the casing beneath the cards, composed of two hingedly united sections, and means for moving said sections to relatively oppositely inclined positions to elevate the cards engaged thereby to bring their fingering edges in an offset relation to one another.

1,424,081. CLUTCH-LEVER RETAINER. MARTIN L. CLINE and FRANK HERGE, Malinta, Ohio. Filed July 8, 1921. Serial No. 483,347. 5 Claims. (Cl. 74—81.)



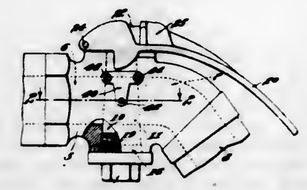
1. The combination in a retainer, of a frame having stops, a sliding and swinging dog connected and movable with respect to the frame and having an arm to engage a device to be held and also having a stop, the latter for cooperation with the stops of the frame, and a spring to move the dog clear of the device to be held thereby for the release of said device.

1,424,082. RING GAUGE. MORTIMER L. CLOPTON, Wichita Falls, Tex. Filed May 6, 1921. Serial No. 467,382. 1 Claim. (Cl. 33—178.)



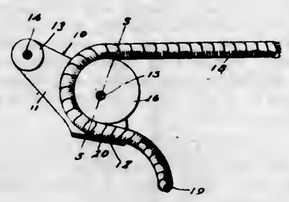
A ring gauge comprising a hollow tapered tube of a material susceptible to distortion to change the shape thereof when a ring has been inserted thereover and forcibly brought thereagainst and adapted to conform itself to the shape of the ring without changing the circumference of the tube.

1,424,083. SHUT-OFF VALVE FOR AIR-BRAKE PIPES. ALBERT L. COLE, Auburndale, Mass., assignor of one-fourth to Francis J. V. Dakin, Newtonville, Mass., and one-fourth to Frank A. Tilton, South Braintree, Mass. Filed July 6, 1920. Serial No. 394,106. 4 Claims. (Cl. 251—94.)



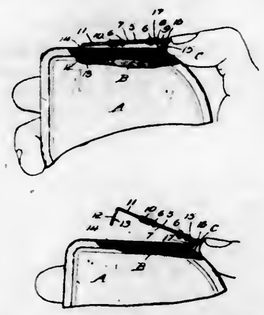
1. A shut-off valve for air-brake pipes on railroad cars comprising a valve casing, a valve mounted in said casing, said valve casing and said valve being each provided with a port, said ports being so arranged that a clear and unobstructed passage is provided for the air to escape from the pipe on one side of said valve when the latter is in a closed position and means affixed to the outside of said valve casing for closing the outer end of said port in said valve casing; said means being flat and substantially flush with the outer surface of said valve casing and rigidly fixed against lateral movement yet resilient to permit the escape of compressed air from said last mentioned port.

1,424,084. CLOTHESLINE ADJUSTER. GLAUDEL COLB, Poughkeepsie, N. Y. Filed Mar. 19, 1920. Serial No. 367,059. 1 Claim. (Cl. 24—134.)



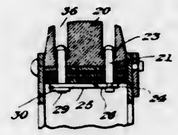
A device of the class described comprising a bracket formed from a single piece of material and bent to provide a pair of parallel inclined side bearing plates having aligned openings therein, a transverse web connecting one end of said plates and provided with a plurality of transverse inwardly extending projections, a rivet passing through said openings in said bearing plates, a roller eccentrically mounted on said rivet and cooperating with said projections to provide a clamp, spaced ears extending from the opposite ends of said plates and having aligned openings therein, a rivet extending through the openings in said ears and a roller rotatably mounted on the last mentioned rivet.

1,424,085. LATCH RELEASE FOR TAPES. CHARLES W. CROGAN, Bangor, Me. Filed Oct. 16, 1920. Serial No. 417,307. 16 Claims. (Cl. 83—138.)



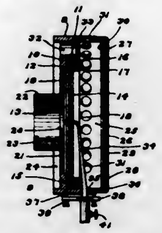
1. In a line terminal for engagement with a casing, a latching element and a fulcrum connection between the element and the line to coact with the casing for the automatic release of said element when manually actuated.

1,424,086. VEHICLE WHEEL AND RESILIENT TIRE THEREFOR. FELIX DE BORGGRAVE, Chicago, Ill. Filed June 17, 1921. Serial No. 478,376. 4 Claims. (Cl. 152—8.)



4. In a vehicle wheel, the combination of a plurality of circular leaf springs, flanges for preventing relative lateral movement of said springs, spokes carried by said flanges, bolts connecting said flanges, a locking ring for locking said bolts and flanges in position, a plurality or cushioning tread members mounted upon the outermost of said springs in circumferentially spaced relation one to another, bolts extending through said springs and tread members, locking members engaging said bolts for preventing relative movement of the tread members and springs, handles formed upon said ring for moving the same, links pivoted to said handles and adapted to be bolted to certain of said spokes for locking the locking ring against movement.

1,424,087. REPRODUCER. CHARLES J. DEL'MARMOL, Frankford, Pa. Filed Sept. 6, 1921. Serial No. 498,775. 2 Claims. (Cl. 274—27.)

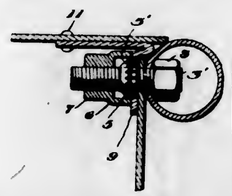


1. A sound box comprising a cylindric body, an apertured wall closing one end of said body and formed with a peripheral enlargement, a diaphragm, a supplemental diaphragm closing the other end of the cylindric body and forming an amplifying chamber, said enlargement being apertured and said cylindric body being apertured around the amplifying chamber.

1,424,088. COMPOSITION FOR COATING METALS FOR THE PURPOSE OF PERMITTING ELECTRIC CURRENTS TO OPERATE BY THE ACTION OF LIGHT. HILBERT L. FALK, New Orleans, La., assignor to Lyndon D. Wood, Philadelphia, Pa. Filed Dec. 10, 1921. Serial No. 521,477. 3 Claims. (Cl. 219—76.)

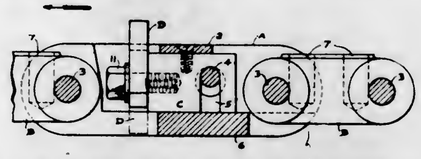
1. A composition for coating surfaces for the purpose of permitting electric currents to operate by the action of light comprising a mixture of platinum-barium-cyanide of potassium crystals, crude sulphur, tungstate of soda, calcium chloride, and selenium crystals.

1,424,089. RAIL-FASTENING DEVICE FOR BEDS AND THE LIKE. JOHN FINDURA, Pittsburgh, Pa., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 3, 1921. Serial No. 442,041. 9 Claims. (Cl. 5—55.)



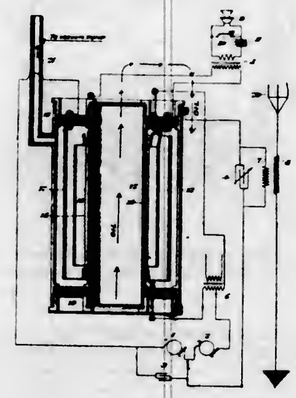
1. In a bed, a post having a lateral hole therein, a threaded stud mounted in said hole, means securing the stud in position and located inside said post, a foot or head rail mounted on said stud outside said post, a nut or support holding said rail in position on said stud and against the outer face of said post, a second or side rail having a recessed end portion with a face having a contour corresponding to the contour of the said post, such recessed portion fitting over the said nut or support, a clamping member loosely mounted on the stud and another nut on said stud arranged to bear against the clamping member and force it against the said end portion of the second rail to hold it on said second nut or support and against said post.

1,424,090. FEEDING CHAIN FOR WOODWORKING AND OTHER MACHINES. CHESTER B. FOSTER and FRANK H. CLEMENT, Rochester, N. Y.; Louisa S. Clement, Mary G. Clement, and Benj. H. Clement executors of said Frank H. Clement, deceased; said executors assignors of the entire right of said Frank H. Clement, deceased, to American Woodworking Machinery Company, Rochester, N. Y., a Corporation of Pennsylvania; said Foster assignor of his entire right to American Woodworking Machinery Company, Rochester, N. Y., a Corporation of New York. Filed May 27, 1919. Serial No. 300,146. 6 Claims. (Cl. 198—176.)



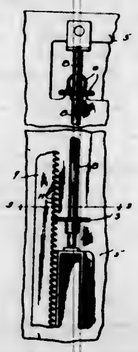
1. The combination in a feeding chain of a main link, a block fitted to slide longitudinally in said link, a feeding dog made vertically adjustable on the sliding block and means for positively adjusting the sliding block longitudinally in the main link.

1,424,091. RADIOELECTRON OSCILLATOR. CLAUDE R. FOUNTAIN, Macon, Ga. Filed Jan. 21, 1919. Serial No. 272,357. 4 Claims. (Cl. 250—27.)



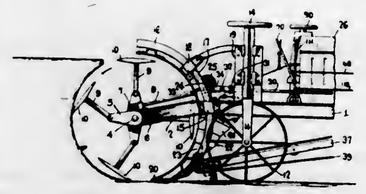
1. In a radio-electron oscillator, a source of electrons, an attracting medium, a grid in front and a medium behind said source and possessed of the capacity of synchronous action to change the speed of electrons toward the attracting medium, the said attracting medium being so perforated that some of the electrons may pass on to another medium, where their impacts may free other electrons, and the said second named medium.

1,424,092. CALL CLOCK. CHESTER B. GAINS, Colfax, Iowa, assignor of one-half to Samuel A. Potts, Muscatine, Iowa. Filed June 7, 1921. Serial No. 475,751. 1 Claim. (Cl. 58—116.)



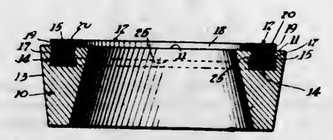
The combination with a rotatable shaft, of a longitudinaly movable rack bar having the teeth thereof beveled obliquely with respect to the horizontal, at one side thereof, a disk fixed to rotate with the shaft, a plurality of spaced horizontally arranged teeth carried thereby and having their edges beveled so as to pass the beveled face of the teeth on the rack bar, the latter being adapted to successively rest upon the upper face of the disk and to subsequently pass between two adjacent teeth of the latter.

1,424,093. EXCAVATOR. JOHN A. GILMAN, American Lake, Wash. Filed Sept. 4, 1920. Serial No. 408,202. 7 Claims. (Cl. 37—11.)



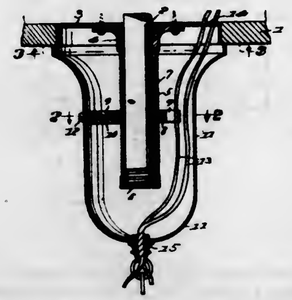
1. An excavator comprising a supporting frame, a bracket mounted upon the frame, means for moving the bracket transversely of the frame, a plurality of sets of cutters carried by the bracket, the sets being spaced apart and means for operating the cutters.

1,424,094. VALVE SEAT. ROBERT W. GUNN and WILLSIE A. S. THOMPSON, Los Angeles, Calif. Filed May 17, 1920, Serial No. 381,808. Renewed June 19, 1922. Serial No. 569,574. 3 Claims. (Cl. 251—167.)



3. A valve member with a seating ring groove having a middle portion of uniform width, an inner portion wider than the middle portion, and an outer portion diverging outwardly from the middle portion.

1,424,095. ELECTRIC-LIGHTING FIXTURE. PLINY L. HAISLIP, Washington, D. C. Filed Oct. 11, 1921. Serial No. 507,059. 5 Claims. (Cl. 240—85.)



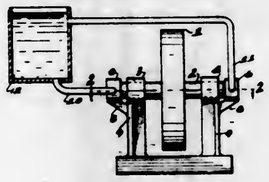
1. An electric light fitting including supporting means, a sleeve of insulating material carried by the supporting means and having external threads, a ring adjustably mounted on said sleeve and having internal threads engaging the threads of the sleeve, a fixture cap carried by said ring, and means accessible from the exterior of said cap for securing the cap to the ring.

1,424,096. PENCIL ATTACHMENT. CHARLES B. HANSEN, Providence, R. I. Filed Apr. 5, 1922. Serial No. 549,845. 6 Claims. (Cl. 24—12.)



1. In a pencil attachment, a cap having a closed end with a struck-out ring and having a bead intermediate its ends, said cap being formed to frictionally engage over a pencil end, a sleeve formed to frictionally fit over the outer end of the cap and to engage the bead of the cap at one end and having its opposite end open, a coil spring capable of being housed within the sleeve and having one end connected to the ring, and a safety pin connected to the other end of the spring and disposed without the sleeve for securement to the garment of the user.

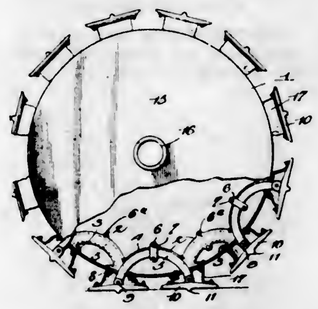
1,424,097. WATER-COOLED BEARING. JOHN HERMAN, Los Angeles, Calif. Filed July 22, 1920. Serial No. 398,166. 2 Claims. (Cl. 257—1.)



2. The combination with a rotatable member, of means for circulating a cooling fluid through said rotatable member, said circulating means including a thermosiphon circulation of said fluid, and also means for pumping said liquid actuated by the rotation of said member.

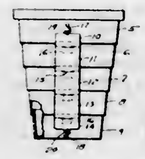
1,424,098. TRACTOR WHEEL. HARRY G. HOWARD, Greenwich, N. Y. Filed Sept. 14, 1920. Serial No. 410,139. 4 Claims. (Cl. 305—13.)

1. In a device of the class described, the combination of a rim, a plurality of series of arcuate members slidably mounted in said rim, a plurality of tread members each



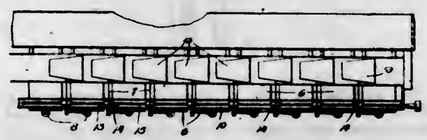
pivotally secured to a plurality of said arcuate members, and arcuate housings for said arcuate members.

1,424,099. COLLAPSIBLE SHIPPING CONTAINER. NANNIE K. HUNT, Adolphus, Ky. Filed Mar. 21, 1922. Serial No. 545,553. 2 Claims. (Cl. 220—8.)



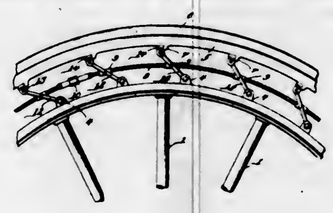
1. A collapsible container comprising a plurality of annular interengaging elements and a plurality of braces, each of said braces comprising a plurality of sections, means for connecting the several sections of said braces detachably together in such manner that when said sections are connected the braces are vertically rigid, said means comprising slots formed in some of the sections and offset projections upon other of the sections engageable in said slots and interengaging elements between the uppermost and lowermost sections of the container and the uppermost and lowermost sections of the braces.

1,424,100. ATTACHMENT FOR CONE-WINDING MACHINES. ADOLPH A. JOHNSON, Hanes, N. C., assignor of one-fifth to S. B. Hanes and one-fifth to D. A. Ricks, both of Hanes, N. C. Filed July 26, 1921. Serial No. 487,795. 1 Claim. (Cl. 28—59.)



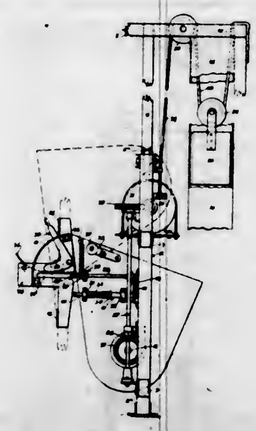
A cone winding machine for winding a plurality of cones, means for winding yarn upon said cones, means for moistening the yarn, said last mentioned means comprising a water containing trough mounted adjacent the cones, a fixed shaft extending longitudinally of the trough, said shaft being partially submerged in the water, enlargements rotatably mounted on said shaft, there being an enlargement for each cone, said enlargements arranged in the path of the yarn and being engaged and rotated by the yarn as the yarn is being wound on the cones.

1,424,101. RESILIENT WHEEL. CARL JOHNSON, San Francisco, Calif. Filed Nov. 12, 1920. Serial No. 423,528. 3 Claims. (Cl. 152—32.)



3. In a resilient wheel structure, the combination of inner and outer annular bands, an annular cable interposed between and spaced from the said bands, and levers pivotally connected with the inner band and similarly connected with the outer band at points in advance of the inner connections and receiving the said cable.

1,424,102. AGITATING AND DUMPING BUCKET. GEORGE JOHNSON, Brier Hill, Pa. Filed Mar. 28, 1922. Serial No. 547,504. 5 Claims. (Cl. 83—73.)



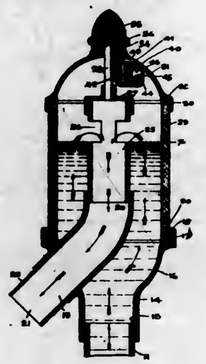
1. In an apparatus of the character described, in combination with a supporting structure, a frame mounted on said structure for movement along the same, a bucket mounted in the frame, a shaft extending through the bucket and supporting the same for tilting movement into discharging and receiving positions, means for releasably securing the bucket in receiving position, agitating members secured on the shaft within said bucket, and means for rotating said shaft during travel of the bucket.

1,424,103. LINGERIE CLASP. HAROLD R. JOHNSON, Edgewood, R. I., assignor to Oscar R. Johnson Company, Cranston, R. I. Filed Jan. 21, 1922. Serial No. 530,822. 3 Claims. (Cl. 24—248.)



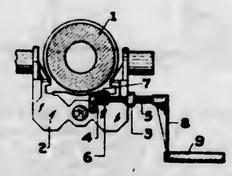
3. In a clasp, a pair of members one of which has a doubled slotted end and a curved end, the other member having a tongue at one end hingedly engaged in the slot and having its opposite end formed to snap into engagement with the curved end of the first member.

1,424,104. VISIBLE FLUID GAUGE. MARSHALL W. JOY, San Francisco, Calif. Filed Sept. 2, 1920. Serial No. 407,757. 9 Claims. (Cl. 221—102.)



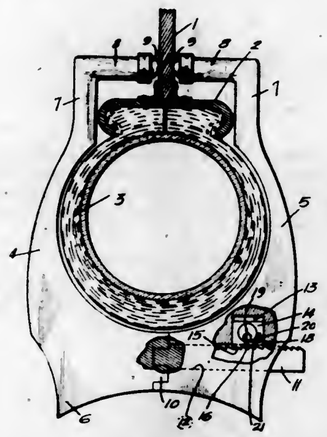
1. A fluid gauge comprising an open ended casing adapted to detachably engage the priming column of a fluid pump; an outlet conduit formed integrally with said casing and substantially in the center thereof; a transparent cylindrical member adapted to be mounted on said casing around said outlet and a closure adapted to be secured to said outlet and to engage said cylindrical member.

1,424,105. GUN RETRACTING MECHANISM. BRYAN P. JOYCE, Washington, D. C. Filed May 19, 1922. Serial No. 562,240. 4 Claims. (Cl. 89—40.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



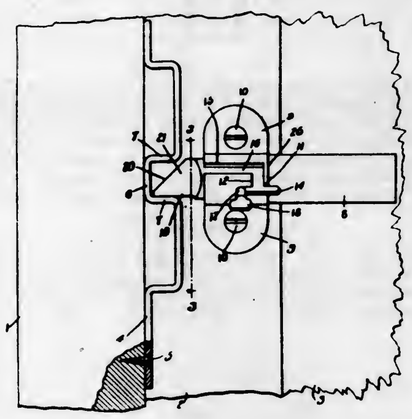
1. A gun retracting mechanism, including a gun barrel, a rack formed thereon and extending longitudinally thereof, a support for the gun barrel, a shaft journaled in said support, a pinion rigid on the shaft and in mesh with the rack and means for rotating the shaft.

1,424,106. AUTOMOBILE THEFT SIGNAL. HARRY M. LAKE and OWEN C. BETRY, Los Angeles, Calif. Filed May 26, 1921. Serial No. 472,843. 5 Claims. (Cl. 70—90.)



1. A device of the character described comprising separable sections adapted to form an annulus, one of said sections having a toothed bolt extending through a bore of the other section, and a locking block in said second section adapted to engage said toothed bolt.

1,424,107. WINDOW LOCK. WILLIAM MARCUS LOWTHORP, Summertown, Tenn. Filed Jan. 11, 1922. Serial No. 528,391. 3 Claims. (Cl. 292—60.)



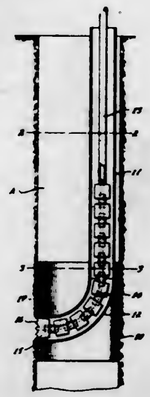
1. The combination with a frame and a slidable sash, of a rack strip on the frame and having a seat provided with parallel portions; a guide on the sash and having a T-shaped slot including a transverse body, a longitudinal head at one end of the body and a transverse arm at the other end of the body; a bolt slidable in the guide, and a stud projecting from the bolt, the bolt cooperating with one of the parallel portions of the seat to hold the sash against downward movement and the bolt having a beveled end which is so positioned with respect to the other parallel portions of the seat that the sash may be raised when the stud is at one end of the head of the slot, the stud being movable to the other end of the head of the slot to permit a lowering of the sash, the bolt having parallel surfaces, and being rotatable to permit said surfaces to coact with the parallel portions of the seat thereby to hold the sash against upward movement and downward movement, the stud being adapted to enter the extension of the slot by way of the body of the slot, thereby to hold the bolt against rotation; and spring means in the guide for advancing the bolt.

1,424,108. HYDROMETER. JOSEPH O. LUTHY, San Antonio, Tex. Filed Sept. 22, 1916. Serial No. 121,617. 7 Claims. (Cl. 265—45.)



1. A hydrometer or the like, comprising a shell or body portion of celluloid.

1,424,109. DRILLING DEVICE. WILLIAM S. MCBRIDE, Caldwell, Ohio. Filed Feb. 7, 1921. Serial No. 443,115. 5 Claims. (Cl. 255—19.)



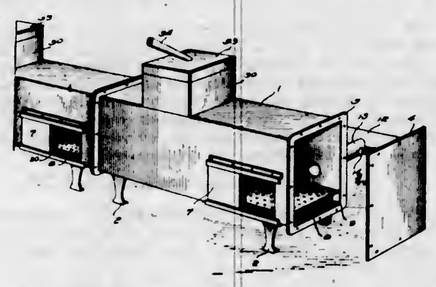
1. A device of the character described comprising a casing insertable within a well, a tube secured to said casing and serving as a handle for governing the position thereof, a hollow flexible shaft extending through said tubing, the lower end of said tubing being curved and extending to the peripheral wall of the casing, and a bit carried by said flexible shaft.

1,424,110. BELT. MICHEAL J. MAAKESTAD, Chicago, Ill. Filed Jan. 20, 1921. Serial No. 438,640. 10 Claims. (Cl. 241—8.)



1. A belt including a plurality of pliable elements comprising a body portion and a plurality of integral tongues extending therefrom, said body portion and tongues being provided with openings, the tongues of each element being threaded through openings of a pair of adjacent elements and folded back for the passage of tongues of succeeding elements.

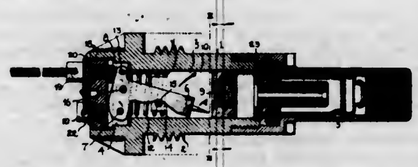
1,424,111. MEDICINAL APPARATUS. AUGUSTUS F. W. MACMANUS, San Antonio, Tex., assignor of one-tenth to J. E. Greer and J. B. Stafford, both of San Antonio, Tex. Filed Jan. 8, 1921. Serial No. 435,847. 9 Claims. (Cl. 167—3.)



1. A medicinal apparatus comprising a fire box, a settling chamber arranged adjacent said fire box, a plurality of baffle plates arranged therein, and a conditioning chamber arranged adjacent said settling chamber and communicating therewith.

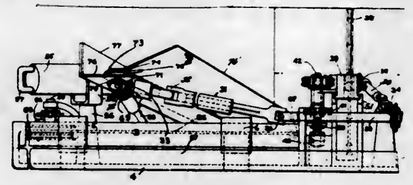
4. A medicinal apparatus comprising a casing, a fire box arranged adjacent one end of said casing, a settling chamber arranged adjacent said fire box, a plurality of baffle plates arranged therein, said plates being alternately secured to the top and bottom of the casing to produce a tortuous passage, and a conditioning chamber arranged adjacent said settling chamber and communicating therewith.

1,424,112. IMPACT FUSE. SETH G. MALBY, U. S. Army, assignor to Secretary of War of the United States of America, trustee. Filed Nov. 16, 1918. Serial No. 262,892. 20 Claims. (Cl. 102—39.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



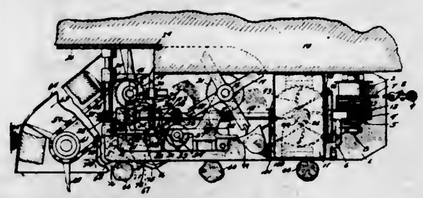
18. A fuse for projectiles, including a movable percussion pellet carrying a primer and a pivotally mounted firing pin normally held with its pin out of alinement with the primer, the pellet and pin cooperating upon movement of the pellet in one direction to bring the firing pin and primer into operative relation.

1,424,113. MINING MACHINE. EDMUND C. MORGAN, Morgan Park, Ill. Filed June 27, 1910, Serial No. 569,173. Renewed May 18, 1916. Serial No. 98,438. 85 Claims. (Cl. 262—9.)



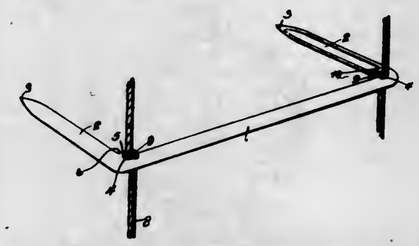
1. In a mining machine, the combination with a supporting frame, of cutting mechanism mounted thereon and movable bodily therewith into positions to cut horizontal kerfs, an additional supporting frame connected to said first-named supporting frame in fixed relation thereto but movable relatively thereto, cutting mechanism mounted on said additional frame and movable bodily therewith into positions to cut upright kerfs transverse to the coal face, and means for operating said cutting mechanisms.

1,424,114. MINING MACHINE. EDMUND C. MORGAN, Morgan Park, Ill. Filed June 27, 1910, Serial No. 569,168. Renewed Jan. 7, 1918. Serial No. 210,796. 59 Claims. (Cl. 262—9.)



1. In a machine of the character described, the combination with means for making two horizontal kerfs in the material to be mined, of means for making a vertical kerf intersecting said horizontal kerfs to form a column, and picking means disposed between the horizontal kerf-making means and operating from the machine directly against the exposed surface of the mine wall for breaking down sections from said column.

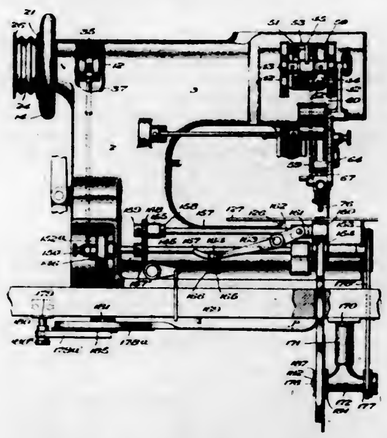
1,424,115. ROPE LADDER CONSTRUCTION. RICHARD D. NILSON, Bell, Pa. Filed June 24, 1921. Serial No. 480,062. 2 Claims. (Cl. 228—40.)



1. A rope ladder construction comprising a ladder rung having its ends bent at right angles from the main portion of the rung, the portion of the rung at which the bend is formed, being provided with a V-shaped notch forming a retaining tongue, one corner of the notch being equipped

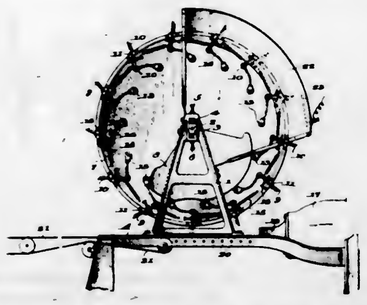
with a circular recess, the rope being provided with a single loop and slipped over the said tongue before the bend is formed, a wedging member also formed on the bent portion, the said wedging member binding the said rope in said recess and in the space between the retaining tongue and the recess when the said bend is formed.

1,424,116. PAPER-FEEDING MECHANISM. DONALD NOBLE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Continuation in part of application Serial No. 232,744, filed May 6, 1918. This application filed Feb. 12, 1919. Serial No. 276,609. 4 Claims. (Cl. 242—55.)



4. In a perforating machine, in combination, a supporting bench, a machine frame mounted thereon and carrying a perforating tool and a slotted work-support cooperating therewith, and a pair of paper-feeding rolls beneath said work-support, a paper-receiving reel disposed beneath the supporting bench with its axis in substantial parallelism with those of said feeding rolls, a driving connection between said reel and feeding rolls, and a paper supply reel mounted beneath said supporting bench and rotatable upon a substantially vertical axis, means being provided whereby a strip of paper is led from the supply reel through said bench and the slots of said work-support to the feed-rolls and thence through the bench to the receiving reel.

1,424,117. AUTOMATIC BUTTER-CUTTING MACHINE. ISAAC C. POPPER, New York, N. Y. Filed Apr. 23, 1921. Serial No. 463,851. 21 Claims. (Cl. 31—65.)



1. An automatic butter-cutting machine including a rotatable wheel or cutter-head, knives pivotally connected therewith which successively come into the path of the butter, means for holding a knife in fixed relation to the wheel or cutterhead during the entire operation of cutting, and means for feeding the butter against the intermittently fixed knife, whereby the wheel or cutter-head is revolved, and the butter is cut into lengths.

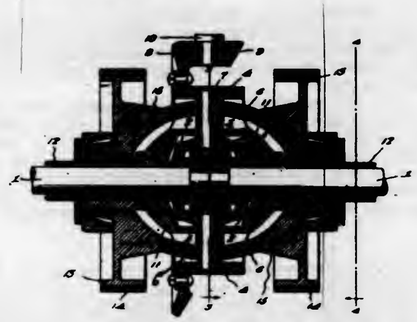
4. An automatic butter cutting machine including an automatic feed for the material to be cut, and a wheel or cutter-head carrying pivotally mounted knives which are intermittently fixed and which come in the path of the butter, whereby the wheel is revolved, and the butter is automatically cut into lengths, and name-plates secured to the periphery of the wheel or cutter-head between the knives for imprinting the butter.

8. The combination with a table having rollers and conveyors thereon, a former, a former-head, and means for feeding the material into, and discharging it from, the former-head upon the rollers, of a rotatable wheel or cutter-head carrying pivoted cutters, and means connected with each cutter for holding said cutters in fixed relation successively in the path of the fed material whereby the wheel is turned and the material is cut into lengths.

12. In an automatic butter cutting machine, a rotatable wheel carrying fixed name-plates on its periphery and knives, the latter pivotally supported, and means for controlling the position of the knife-holders, during the functioning of the knife.

16. Means for shaping and cutting plastic material including a rotatable device presenting cutting means in the path of the oncoming material and following cutting means successively to sever the fed plastic material, and means for holding the cutters rigidly during the cutting operation, thus providing an abutment in position to receive the impact of the fed material, whereby the rotation of the device is effected.

1,424,118. EQUALIZING AND STEERING GEARING FOR MOTOR VEHICLES. JACOB B. RAMER, Chambersburg, Pa. Filed May 24, 1921. Serial No. 472,180. 1 Claim. (Cl. 180—17.)



Equalizing and steering gearing for motor vehicles comprising axles arranged in alinement and opposed relation, bevel gears fast on said axles, a rotary member between said gears and loose upon the inner opposed portions of the axles, an annulus surrounding and spaced from said rotary member, shafts extending between and carried by the rotary member and the annulus, inner bevel gears on said shafts intermeshed with the gears fast on the axles, outer comparatively large bevel gears on the shafts and fixed to said inner gears, housing sections enclosing the gears on the axle and the gears intermeshed therewith and having sleeves receiving the axles, said housing sections having their inner portions arranged between the inner and outer gears on the shafts, brake wheels loosely mounted on the said sleeves and having inwardly extending annular bevel gear portions surrounding the housings

and intermeshed with the comparatively large outer gears on the shafts, and manually-controlled means complementary to the brake wheels and independently operable to retard either brake wheel.

1,424,119. THRASHING MACHINE. GEORGE E. RICHMOND, Enid, Okla. Filed July 28, 1919. Serial No. 313,695. 2 Claims. (Cl. 130—22.)

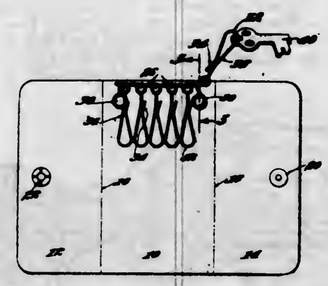


1. In a thrashing machine, the combination of a casing, a plurality of concaves arranged one in front of the other in the casing and respectively made up of transverse rods spaced apart; the rods of the rearmost concave being comparatively small in cross-section, and arranged comparatively close together, rotary beaters complementary to the concaves, cleaning means, means for conducting grain and tailings from the concaves to the cleaning means, and means for returning tailings from the cleaning means to the rearmost concave.

1,424,120. MAKING OF ZINC RETORTS AND OTHER REFRACTORY SHAPES. WILLIAM F. ROSSMAN, St. Louis, Mo., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo., a Corporation of Maine. Filed May 16, 1921. Serial No. 470,102. 4 Claims. (Cl. 106—10.)

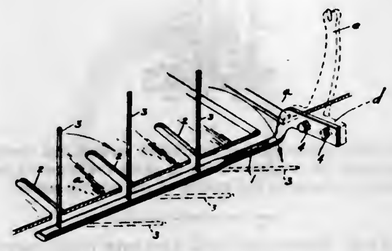
1. A refractory material for zinc retorts and the like, composed of plastic clay, a proportion of finely pulverized silica, and a proportion of ground grog about equal to the proportion of silica mixed together in a plastic state.

1,424,121. KEY HOLDER. WILLARD G. STAPLES, Newburyport, Mass., assignor of one-half to Timothy Harrington, Newburyport, Mass. Filed Apr. 25, 1921. Serial No. 464,419. 2 Claims. (Cl. 150—40.)



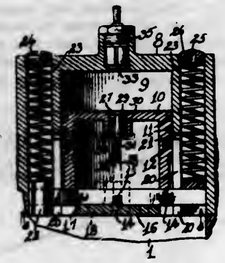
1. A key holder comprising a foldable cover of flexible material, a wire secured to the inner face of said cover and in engagement therewith, said wire being bent to form a series of closed loops all lying in the same plane, and a plurality of key-carrying hooks mounted one in each of said loops.

1,424,122. GRAIN HOLDER FOR BINDERS. LAWRENCE H. STOWELL, Wheatland, N. Dak. Filed Nov. 10, 1920. Serial No. 423,084. 6 Claims. (Cl. 56—443.)



1. A grain holding device for a binder adapted to be disposed on the head side of the sheaf supporting grain deck thereof, which comprises spaced members extending upwardly from the surface of said deck.

1,424,123. AIR PUMP. WILLIS A. SWAN, Port Huron, Mich. Filed May 17, 1920. Serial No. 382,165. 4 Claims. (Cl. 230—27.)



1. In an air pump, the combination of a casing, an eccentric rotatably mounted therein, a cylinder secured to the casing having a large central chamber and a series of smaller diametrically opposed chambers arranged thereabout, a hollow piston reciprocably mounted in the central chamber, a check valve in the upper end thereof, a check valve in the upper end of the cylinder, a series of arms extending from the piston through the portion of the cylinder wall between each of the smaller and the large chamber, a member engaging over the extreme end of each arm fitting the chamber, and a spring in each smaller chamber engaging the members on the said arms, the said smaller chambers providing an air inlet to the interior of the casing.

1,424,124. TENSION DEVICE AND YARN CLEANER. GEORGE N. TAYLOR, East Providence, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed May 23, 1921. Serial No. 471,765. 15 Claims. (Cl. 28—71.)

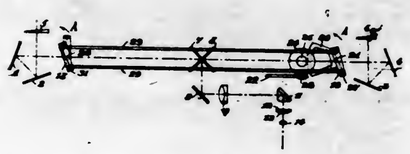
1. In a tension-device, the combination of a tension-element adapted to bear against a running yarn to cause

resistance to its draft, gravity-operated means for applying pressure on the tension-element to cause it to act on the



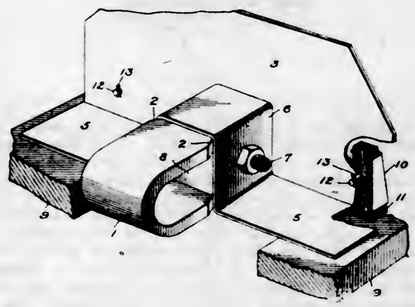
yarn, and resilient means interposed between the gravity-means and the tension-element to adapt the latter to yield without overcoming the inertia of the gravity-means.

1,424,125. RANGE-FINDING AND THE LIKE INSTRUMENT. HAROLD DENNIS TAYLOR, York, England, assignor of one-half to Alfred Taylor, York, England. Filed May 28, 1918. Serial No. 237,127. 12 Claims. (Cl. 88—2.7.)



1. A range finder comprising in combination a pair of prisms, an optical eye-piece receiving images from said prisms, means to move said prisms in unison in planes substantially at right angles to their own planes, means to indicate the amount of said movement, prismatic windows receiving light prior to refraction by said prisms.

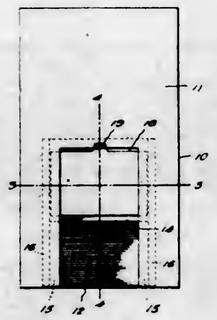
1,424,126. FLIGHT FOR CONVEYER CHAINS. SAMUEL V. TENCH, Wilkes-Barre, Pa. Filed Feb. 4, 1920. Serial No. 356,198. 17 Claims. (Cl. 198—176.)



1. The combination with the link of a conveyer chain; of a flight detachably mounted directly on the link and comprising a body portion having a recess substantially conforming to the cross-sectional area of the link, to accommodate the link; a housing, including two sides and a connecting member, projecting at approximate right angles to the body portion of the flight, around the recess, the sides of the housing being substantially equal in length to the cross-sectional height of the link to embrace the opposite sides of the link, the connecting member lying in contact with one face of the link, to brace the body portion of the flight; flanges projecting at substantially right angles to the body portion of the flight, along one edge thereof; and a fastening means passing through the sides of the housing and through the link, to secure the flight to the link.

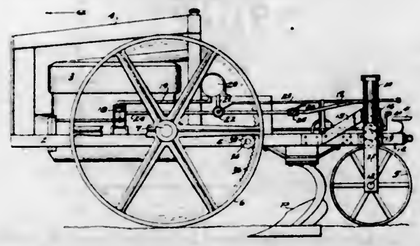
17. The combination with a link chain; of a flight detachably mounted on a link, and including a body portion extending across the link, and lying in a plane at substantial right angles to the direction of travel of the chain, side members connected with the body portion and adapted to embrace the sides of the link, the side members lying at substantial right angles to the body portion and in vertical planes substantially parallel with the direction of travel of the chain; and fastening means passing through the side members, and through the link to removably secure the flight to the link.

1,424,127. BOX. EDWARD J. THOLE, Evansville, Ind. Filed Sept. 28, 1920. Serial No. 413,315. 1 Claim. (Cl. 229—7.)



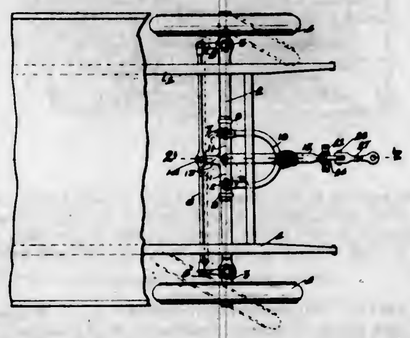
A box provided in one end with an opening, a U-shaped member secured at said opening at the inner side of the end and including a bight portion partly covering the opening and further arms extending along the sides of the opening, spacing strips secured between said ends and said U-shaped member whereby to space said arms away from the inner sides of the ends, and a plate slidable between said ends and the U-shaped member and provided with a tab serving to form a handle.

1,424,128. TRACTOR. GEORGE J. ZIEGLER, Los Angeles, Calif., assignor of one-third to Sherwin Gibbons, one-third to Ernest Stewart, and one-third to Frederick C. Beutel, all of Los Angeles, Calif. Filed Feb. 25, 1920. Serial No. 361,347. 8 Claims. (Cl. 97—30.)



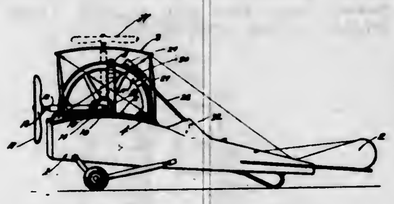
1. A tractor comprising, in combination, a frame supported intermediately of its length on a wheeled axle upon which it is tiltable, the parts thereon so constructed and arranged to render the tilting facile; an agricultural implement carried by the frame to the rear of the wheeled axle, a jacking device at the rear end of the frame for tilting the frame upon its axle, said jacking device including fluid pressure means, and means on the tractor frame for preventing swerving of said jacking device.

1,424,129. STEERING GEAR FOR TRAILERS. ABRAHAM ARBETBLATT, Los Angeles, Calif. Filed July 29, 1920. Serial No. 399,970. 4 Claims. (Cl. 280—33.5.)



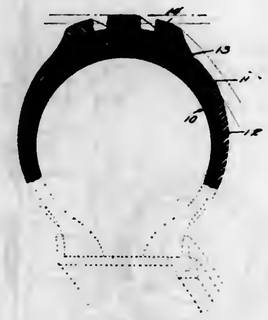
1. The combination with a trailer having steering knuckles and a rod connecting said steering knuckles, or a pin secured to the front axle of the trailer, a sleeve journaled on said pin, an arm projecting rearwardly from said sleeve, which arm is pivotally connected to said connecting rod, arms projecting laterally from said sleeve, a yoke having the rear ends of its arms pivotally connected to the arms that project laterally from the sleeve, a draw bar having its rear end pivotally connected to the pin, and a flexible connection between the forward end of said draw bar and said yoke.

1,424,130. AEROPLANE. GEORGE L. BANKS, Walnut Park, Calif. Filed June 2, 1920. Serial No. 386,002. 2 Claims. (Cl. 244—15.)



2. In an aeroplane, a wing provided with a centrally arranged opening, one side of which extends to the forward edge of said wing, an arcuate member pivotally mounted on the body of the aeroplane below said opening, means for shifting said arcuate member through a vertical plane, a propeller shaft carried by said arcuate member, means for driving said propeller shaft, a propeller on the forward end of said shaft, the length of which propeller shaft permits the propeller to occupy a position above the opening in the wing when said shaft is shifted into a vertical position, and the opening in said wing having a diameter greater than the combined length of the propeller blades.

1,424,131. PNEUMATIC-TIRE TREAD. BURGESS DARROW, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 6, 1918. Serial No. 220,753. 10 Claims. (Cl. 152—13.)

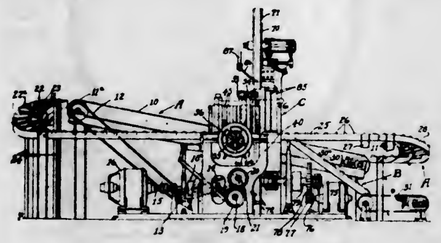


8. In a tire casing, the combination with a tire carcass, and a tread member, of an interposed cushion member having portions in sliding engagement with the tire carcass.

1,424,132. PROCESS OF COOKING GRAIN AND A PRODUCT FOR EFFECTING THE SAME. HERBERT M. GREENE, Portland, Oreg. Filed Oct. 18, 1920. Serial No. 417,625. 4 Claims. (Cl. 99—10.)

2. The process of cooking grain which consists in first mixing the grain with a substance that is quickly convertible by the application of water and heat into a viscous boiling medium and then boiling the mixture in water, thereby converting said mixture into a mucilaginous envelope for each particle, and cooking the grain.

1,424,133. CUTTING APPARATUS. NEAL M. JOHNSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 20, 1919. Serial No. 325,050. 14 Claims. (Cl. 146—11.)

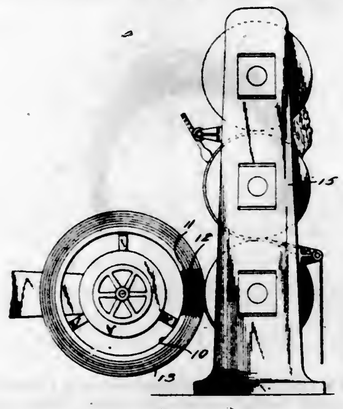


1. An apparatus of the character described comprising in combination an endless track, bundle conveying mechanism included in said track, means interposed in said track for cutting a slice of material from said bundle, and means for moving the bundle laterally of the track to gage the thickness of the slice to be cut.

1,424,134. METHOD OF BUILDING TIRES OF THE SOLID TYPE. PAUL W. LITCHFIELD, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 21, 1918. Serial No. 255,113. 6 Claims. (Cl. 154—12.)

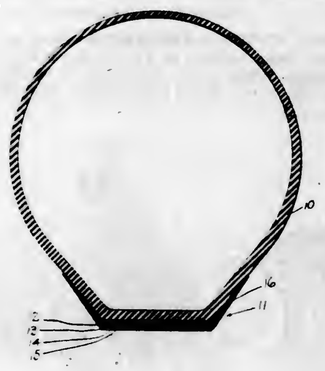
6. The method of building a solid tire comprising, filling in the space between the sides of a tire rim having

vertical side flanges with rubber compound to provide a resilient flush surface across the face of the rim, apply-



ing windings of material of a different rubber compound upon said flush surface through rotation of the rim, and exerting pressure against each winding as it is applied.

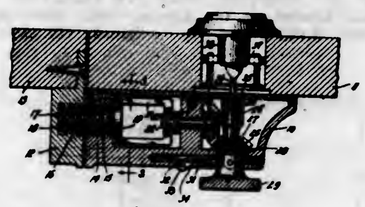
1,424,135. INNER TUBE FOR PNEUMATIC TIRES. CLIFFORD B. OAR, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 11, 1919. Serial No. 303,404. 5 Claims. (Cl. 152—13.)



5. An inner tube for tires, having incorporated therewith a longitudinally stretchable element positioned exteriorly of the inner periphery thereof, and composed of laminated unwoven material whereby the tube is equipped to perform the function of a tire flap.

1,424,136. LOCK. BERNARD MORGENTHAU, New York, N. Y. Filed May 12, 1921. Serial No. 469,029. 2 Claims. (Cl. 70—46.)

1. In a lock, the combination with a casing, of a longitudinally shiftable and rotatable locking-bolt therein, the outer end of said bolt being screw-threaded and adapted to project through said casing for engagement with a screw-threaded keeper, a disk-shaped head upon the inner end of said bolt having in diametrically opposite portions peripheral notches, a rotatable spindle in said casing extending in the longitudinal axis of said bolt, a fork-shaped member fixed to said spindle having its prongs extend-



ing parallel to the longitudinal axis of said spindle, said prongs being seated in said notches, a knob rotatably mounted in said casing disposed outside of the same, and a driving connection between said knob and said spindle.

1,424,137. POLYGLYCEROL RESIN. LOUIS WEISBERG and RALPH S. POTTER, Grantwood, N. J., assignors to The Barrett Company, a Corporation of New Jersey. Filed Feb. 19, 1921. Serial No. 446,509. 6 Claims. (Cl. 23—24.)

1. The process which comprises heating a polyglycerol and a polybasic acid of the aromatic series until a water-resistant product results.

1,424,138. PURIFICATION OF SUBSTANCES BY DISTILLATION WITH A SOLVENT. GEORGE C. BAILEY, Woodcliff-on-Hudson, CHARLES W. FISCHER, Grantwood, N. J., and JOHN F. W. SCHULER, Edgewood, Md., assignors to The Barrett Company, a Corporation of New Jersey. Filed Feb. 9, 1921. Serial No. 443,674. 8 Claims. (Cl. 260—122.)

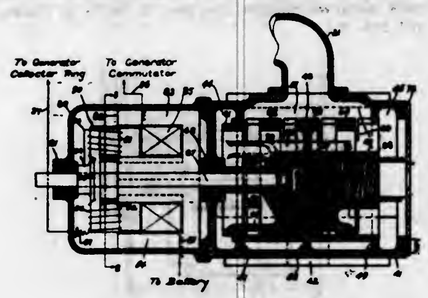
8. The process of purifying maleic acid mixed with benzoquinone, which comprises distilling said acid in the presence of xylol.

1,424,139. WATCH-CHAIN FASTENER. JOHN LOMAN, Bristol, Conn. Filed July 23, 1921. Serial No. 487,014. 1 Claim. (Cl. 24—3.)



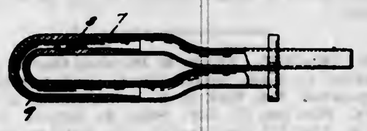
A watch chain fastener for being applied to a belt comprising a single piece of metal, one end position of said piece serving as the front wall, the other end portion thereof being divided to provide individual hooks in spaced relation and being positioned in front of said front wall, a part of said piece serving as the back wall and being spaced from the front wall by a belt receiving space, a top connecting portion connecting the uper ends of said walls and serving to close the upper end of said belt receiving space, and a bottom portion extending from the bottom end of said back wall across the lower end of said belt receiving space and merging with said individual hooks.

1,424,140. ENGINE GOVERNOR. JAMES B. REPLOGLE, Detroit, Mich., assignor to The Remy Electric Company, a Corporation of Indiana. Filed June 14, 1919. Serial No. 304,275. 8 Claims. (Cl. 137—139.)



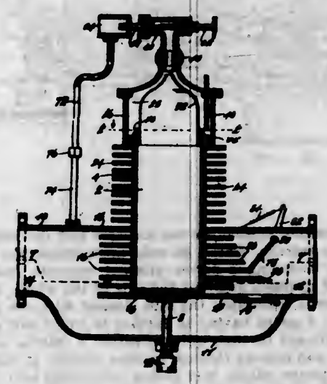
1. In a throttle governor, the combination with a port member; of a valve; electromagnetic means for controlling the position of the valve; and windings adapted to be connected with an alternating current source for reducing hysteresis in said electromagnetic means.

1,424,141. ELECTRICAL OSCILLATION GENERATOR. LEONARD F. FULLER, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed June 16, 1919. Serial No. 304,600. 7 Claims. (Cl. 250—36.)



7. In an electrical oscillation generator, an anode tip comprising a U-shaped metallic tube.

1,424,142. KEROSENE VAPORIZER. WILLIAM H. HILL, Manati, P. R. Filed Aug. 28, 1918. Serial No. 251,765. 11 Claims. (Cl. 48—107.)



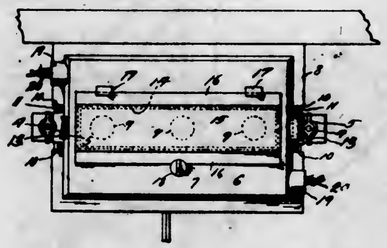
1. In an apparatus of the character described, the combination with the exhaust chamber of an internal combustion motor, of means arranged in the path of the gases through said chamber for absorbing a portion of the heat of said gases, said heat absorbing means offering resistance to the passage of the gases, and a valve-controlled by-pass arranged to relieve excessive back pressure, said valve being yieldingly held in closed condition and arranged to open under a predetermined pressure.

1,424,143. STEERING WHEEL FOR AEROPLANES. WILLIAM C. HURST, New York, N. Y. Filed May 23, 1921, Serial No. 471,601. Renewed June 9, 1922. Serial No. 567,235. 5 Claims. (Cl. 244—29.)



1. In an aeroplane having oppositely disposed planes and a rudder, of a steering device therefor, comprising a steering shaft, means for axially rotatably mounting said steering shaft, means for bodily rotatably mounting said steering shaft, gearing operated upon axial rotation of said steering shaft and controlling said planes, a controlling element for operating said rudder, and means for mounting said controlling element on said steering shaft to operate said controlling element upon axial rotation of said steering shaft and for rendering said rudder controlling element ineffectual upon bodily rotation of said steering shaft.

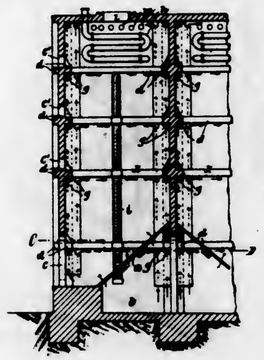
1,424,144. BATTERY COVER. BERT KUNKEL, Hart, Mich. Filed Feb. 11, 1921. Serial No. 444,225. 1 Claim. (Cl. 204—29.)



The combination with an electric battery for motor driven vehicles, said battery having aligned filling openings substantially centrally thereof, of a cover for said battery, said cover comprising a main cover and an auxiliary cover, said main cover entirely enclosing the upper side of the battery and provided with an elongated opening disposed above the battery filling openings, said auxiliary cover being detachably connected to the main cover and normally closing the elongated openings in the main cover.

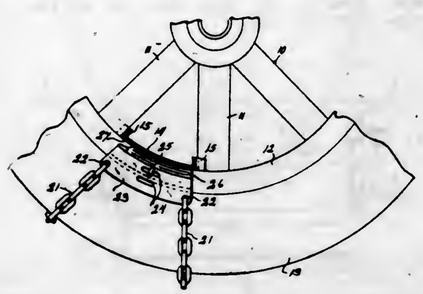
REISSUES.

15,417. APPARATUS FOR WORKING GARBAGE AND REFUSE OF TOWNS. GIUSEPPE BECCARI, Florence, Italy, assignor to Società Anonima Brevetti Beccari, Florence, Italy, an Association. Filed Feb. 1, 1922. Serial No. 533,422. Original No. 1,329,105, dated Jan. 27, 1920, Serial No. 85,567, filed Mar. 21, 1916. 11 Claims. (Cl. 71—1.)



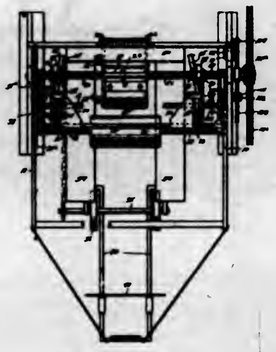
6. A hollow structure including a fermentation chamber and a vapor cooling means arranged within said structure in the course of the vapors rising from the fermenting mass therein.

15,418. NONSKID ATTACHMENT FOR VEHICLE TIRES. JAMES N. BURRIS, deceased, by Henry E. Voss, administrator, Davenport, Iowa. Filed Nov. 30, 1920. Serial No. 427,412. Original No. 1,298,001, dated Mar. 25, 1919, Serial No. 163,290, filed Apr. 19, 1917. 4 Claims. (Cl. 152—14.)



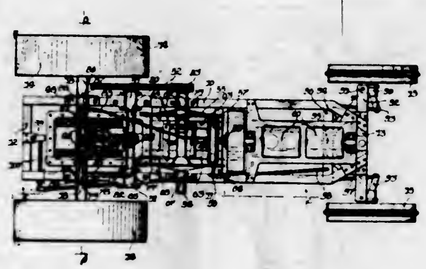
2. A non-skid device embodying a saddle to engage a wheel felly, an attaching member, one side portion of the saddle being provided with an outstanding rotatable part, said part having a cross head, the attaching member having an opening through which said part extends when the cross head is in one position, said cross head when in a second position coacting with the attaching member for detachably holding the same to the saddle, and anti-slipping means connected to said attaching member and to the saddle.

15,419. ENVELOPE-FEEDING MECHANISM. CLIFTON CHISHOLM, Cleveland, Ohio, assignor, by mesne assignments, to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 4, 1920. Serial No. 356,279. Original No. 1,285,623, dated Nov. 26, 1918, Serial No. 202,094, filed Nov. 15, 1917. 62 Claims. (Cl. 271—2.)



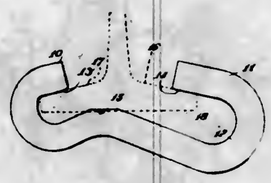
1. In an envelope feeding device, the combination of pivoted means adapted to swing toward the ends of an envelope to engage the envelope between its flap and the adjacent face, means for moving said engaging means into and out of engaging position, and means for moving said engaging means in another direction to feed the envelope engaged.

15,420. TRACTOR. JOSEPH M. DENNING, Denver, Colo., assignor, by mesne assignments, to General Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 10, 1920. Serial No. 350,674. Original No. 1,207,875, dated Dec. 12, 1916, Serial No. 49,099, filed Sept. 4, 1915. 14 Claims. (Cl. 74—98.)



1. Propelling mechanism for tractors and the like, embodying a traction wheel, an axle upon which the wheel is loosely mounted, a driven element separate from the wheel and disposed adjacent the axis of the wheel, rigidly acting means connecting the said element with the rim of the wheel, a casing having an opening in which said driven element fits and through which it passes, a driving element fitting in and passing through another opening in said casing, and means within said casing connecting said driven and driving elements whereby the former is responsive to the movement of the latter, said means including a differential and reduction gearing between said differential and said driven element.

15,421. CREEP CHECK. LEWIS O. HENGGI, Oakmont, Pa., assignor to The P. & M. Company, Chicago, Ill., a Corporation of Illinois. Filed June 7, 1922. Serial No. 566,538. Original No. 1,167,299, dated Jan. 4, 1916, Serial No. 46,258, filed Aug. 19, 1915. Continuation in part of application Serial No. 825,244, filed Mar. 17, 1914. 20 Claims. (Cl. 238—330.)



1. An anti-creeper for rails comprising a body and inwardly extending jaws so arranged that lateral clearance is provided for applying the device transversely to a rail with the body contacting with the bottom face and with the jaws in preliminary engagement with the upper faces of the flanges of the rail, and so arranged that the device is movable in right lines transversely of the rail from its position of preliminary engagement into its operative engaging position and is thereby forced into strong gripping engagement.

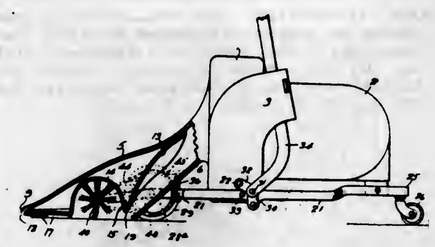
15,422. SLITTING ATTACHMENT FOR CIGARS. WALTER M. JACKSON, New York, N. Y. Filed Sept. 26, 1921. Serial No. 503,458. Original No. 1,345,677, dated July 6, 1920, Serial No. 307,516, filed June 30, 1919. 2 Claims. (Cl. 131—20.)



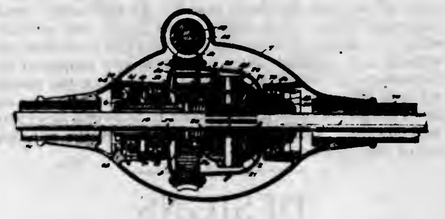
2. A sheet metal puncturing and slitting attachment for cigars consisting of a body portion having projections formed therein and extending from one face thereof, said body portion adapted to be applied against the end surface of the cigar and the projections thereon to penetrate into such end surface, said body portion also having arms to engage over and embrace the cigar end, each of said arms formed with a cutting point or projection at the extremity thereof, said cutting points or extremities bent into substantially right angular relation to the planes of the arms and adapted to penetrate the body of the cigar whereby the withdrawal of the attachment from the cigar leaves the end surface of the cigar punctured and the exterior surface of the cigar end slitted longitudinally.

15,423. SUCTION CLEANER. WILLIAM V. ORR, Cleveland, Ohio. Filed Mar. 14, 1921. Serial No. 452,298. Original No. 1,346,972, dated July 20, 1920, Serial No. 142,837, filed Jan. 17, 1917. 15 Claims. (Cl. 15—8.)

12. In a suction cleaner, in combination, a frame having at least three wheels arranged to support the same in stable equilibrium upon a horizontal surface, one of such wheels being a caster and pivoted for movement about a vertical axis, a cleaner-casing supported by said frame and having a collecting nozzle which overhangs the forward part of the frame, and means for raising and lowering said nozzle relatively to said frame.

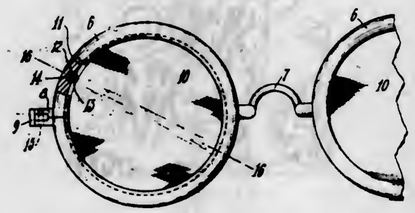


15,424. DRIVING MECHANISM FOR MOTOR VEHICLES. CHARLES E. STARR, Oakland, Calif., assignor to Perfecto Gear Differential Co., Seattle, Wash., a Corporation of Washington. Filed May 16, 1922. Serial No. 561,515. Original No. 1,362,360, dated Dec. 14, 1920, Serial No. 293,189, filed Apr. 28, 1919. 17 Claims. (Cl. 74—99.)



11. The combination with a differential gear system, of a planetary gear system having its intermediate gears journaled on the differential casing, and a housing enclosing both gear systems for mounting the master gear of the planetary system.

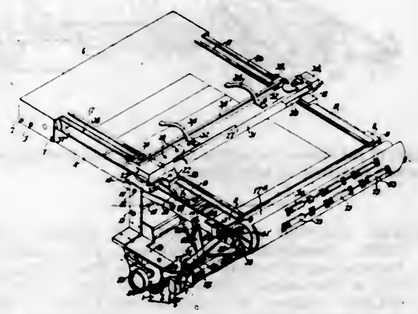
15,425. OPHTHALMIC MOUNTING. FREDERICK A. STEVENS, Providence, R. I., assignor to Stevens and Company, Incorporated, Providence, R. I., a Corporation of Rhode Island. Filed Dec. 8, 1921. Serial No. 520,985. Original No. 1,383,872, dated July 5, 1921, Serial No. 328,102, filed Oct. 3, 1919. 7 Claims. (Cl. 88—47.)



1. An ophthalmic mounting comprising a circular rim, a circular lens in the rim and ground on its surface to cor-

rect visual defects of the eye, and compressible means, intermediate the rim and the lens, for locking the lens within the rim.

15,426. TYPEWRITER. JOHN ASHLAND WHERRY, New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 15, 1921. Serial No. 461,657. Original No. 1,351,081, dated Aug. 31, 1920, Serial No. 258,146, filed Oct. 15, 1918. 41 Claims. (Cl. 197—126.)



1. The combination with a platen which is bodily movable to and from operative position, of a collating board connected at one of its ends to the platen and movable with it to assume substantially vertical and horizontal positions, said collating board being pivotally supported intermediate its ends, and means for actuating the platen when in operative position, said means being disengageable from the platen to permit the latter to be swung forwardly and upwardly to its inoperative position with the collating board face upward.

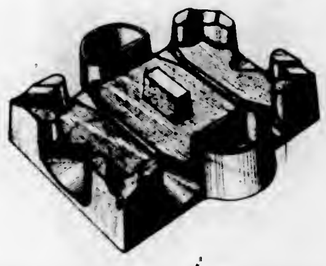
DESIGNS.

61,266. TEXTILE FABRIC. GEORGE BARCI, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,047. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

61,267. ASH TRAY. WILLIAM M. CHAPMAN, Hartford, Ind. Filed Jan. 6, 1922. Serial No. 62. Term of patent 7 years.



The ornamental design for an ash tray, as shown.

61,268. STOCKING BABY DOLL. J OLIVE ENOCH, Los Angeles, Calif. Filed Nov. 28, 1921. Serial No. 517,366. Term of patent 7 years.



The ornamental design for a stocking baby doll substantially as shown.

61,269. TEXTILE FABRIC, WALL PAPER, WRAPPING PAPER, OR ARTICLE OF SIMILAR NATURE. EDMOND GAUDIOS, Watford, England, assignor to Witcombe, McGeachin & Co., New York, N. Y., a Partnership. Filed Mar. 2, 1922. Serial No. 992. Term of patent 7 years.



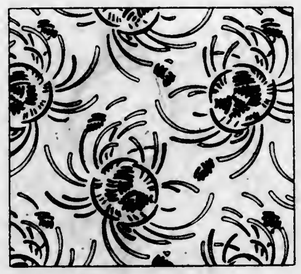
The ornamental design for textile fabric, wall paper, wrapping paper, or article of similar nature, substantially as shown and described.

61,270. PAPER OR SIMILAR ARTICLE. FERNAND JAVAL, Paris, France. Filed Apr. 7, 1922. Serial No. 1,617. Term of patent 14 years.



The ornamental design for paper or similar article, substantially as shown.

61,271. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,039. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

61,272. VALANCE. HAROLD H. LINDNER, New York, N. Y., assignor to Montague & Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 1, 1922. Serial No 1,487. Term of patent 7 years.



The ornamental design for a valance, substantially as shown.

61,273. TOY DOLL. CATHERINE B. LOCKWOOD, Washington, D. C. Filed Apr. 14, 1922. Serial No. 1,751. Term of patent 14 years.



The ornamental design for a toy doll, as shown.

61,274. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Mar. 2, 1922. Serial No. 975. Term of patent 7 years.



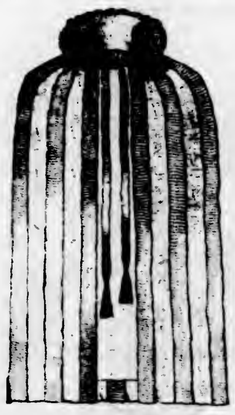
The ornamental design for a ring or similar article, as shown.

61,275. SAFETY PAPER. FRANK MEYER, Lakewood, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,316. Term of patent 3½ years.



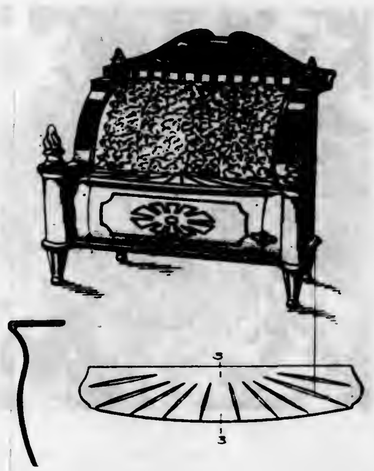
The ornamental design for safety paper, as shown.

61,276. KNITTED CAPE. JOSEPH PELT, Newark, N. J. Filed Feb. 16, 1922. Serial No. 738. Term of patent 3½ years.



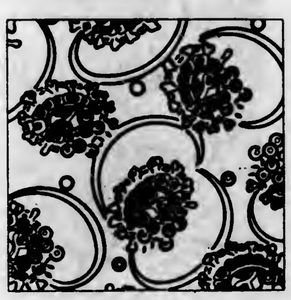
The ornamental design for a knitted cape as shown.

61,277. GAS HEATER. CLARENCE V. ROBERTS and KENNETH C. FARNSWORTH, Philadelphia, Pa., assignors to Roberts and Mander Stove Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 7, 1921. Serial No. 475,733. Term of patent 14 years.



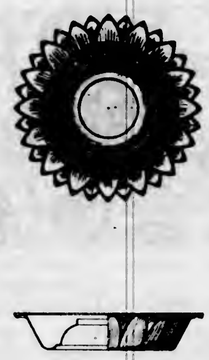
The ornamental design for a gas heater, substantially as shown.

61,278. TEXTILE FABRIC. GLADYS ROWLAND, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,040. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

61,279. HUSK FOR LIGHTING FIXTURES. JOHN WILLIAM SCHULER, Providence, R. I., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed June 13, 1921. Serial No. 477,289. Term of patent 14 years.



The ornamental design for a husk for lighting fixtures, as shown.

61,280. FINGER RING. DAVID SHIMAN, New York, N. Y., assignor to Shiman Bros. & Co. Inc., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1922. Serial No. 1,569. Term of patent 3½ years.



The ornamental design for a finger ring as shown.

61,281. TEXTILE FABRIC. WILLIAM STRASSER, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,041. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

61,282. TEXTILE FABRIC. WILLIAM STRASSER, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,042. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

61,283. TEXTILE FABRIC. WILLIAM STRASSER, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,043. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

61,284. TEXTILE FABRIC. WILLIAM STRASSER, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,044. Term of patent 3½ years.



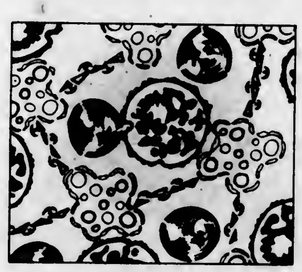
The ornamental design for a textile fabric, as shown.

61,285. TEXTILE FABRIC. VIOLA TARDY, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,045. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

61,286. TEXTILE FABRIC. VIOLA TARDY, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,046. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 25, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 123,579. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS HUBBUCK & SON. LIMITED, London, England. Filed Oct. 9, 1919. Under ten-year proviso.

HUBBUCK.

Particular description of goods.—Sulphates, Chlorides, and Acetates of Metals, Refined Tar, Perfumes, Toilet Waters, Perfume Extracts and Powders, Laundry Bluing, Laundry Soda, Borax, Starch, and Laundry Glazes.
Claims use since 1775.

Ser. No. 125,959. (CLASS 43. THREAD AND YARN.) KEMP & BEATLEY, INC., New York, N. Y. Filed Dec. 13, 1919.



Particular description of goods.—Embroidery Yarns.
Claims use since Nov. 1, 1919.

Ser. No. 126,029. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HERFELD-PHILLIPSON COMPANY, doing business as Milwaukee Boston Store, Milwaukee, Wis. Filed Dec. 15, 1919.



No claim is made to the words "Boston Store" apart from mark.
Particular description of goods.—Razor Strops.
Claims use since Jan. 1, 1916.

Ser. No. 130,822. (CLASS 39. CLOTHING.) ALBERT C. FISCHER, doing business as Servicised Products Company, Chicago, Ill. Filed Apr. 8, 1920.

SERVICISED
LOOK FOR IT ON ALL PURCHASES

No claim is made to words "Look for It on All Purchases" apart from mark.
Particular description of goods.—Garters, Men's, Women's, Children's Neckties, Collars, Hose; Men's Women's, Children's Underwear, Knitted, Netted, and Woven, in One and Two Piece Garments; Ladies' and Infants' Suits, Dresses, and Coveralls; Men's Suits and Coveralls, Men's Shirts.
Claims use since Jan. 15, 1920.

Ser. No. 136,044. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SCINTILLA, Solothurn, Switzerland. Filed Aug. 12, 1920.

SCINTILLA

Trade-mark "Scintilla."

Particular description of goods.—Physical and Meteorological Instruments—viz, Anemometers, Humidity-meters, Altimeters, and Compasses, and Parts Thereof; Registering Instruments—viz, Revolving and Speed Counters and Kilometers; Recording Apparatus; Indicating and Measuring Apparatus—viz, Pressure Gauges, Ampere and Volt Meters, Oil Gauges; Automatic Switches, Weighing Machines, and Moving-Picture Machines, and Parts Thereof.

Claims use since June 19, 1917.

Ser. No. 138,036. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1920.

Molquilt

Particular description of goods.—Pile Fabrics in the Piece.

Claims use since Jan. 15, 1920.

Ser. No. 139,429. (CLASS 32. FURNITURE AND UPHOLSTERY.) RIP VAN WINKLE WALL BED COMPANY, Oakland, Calif. Filed Nov. 9, 1920.

RIP VAN WINKLE

Particular description of goods.—Wall Beds.

Claims use since May 1, 1918.

Ser. No. 139,493. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Nov. 11, 1920.

UNION

Particular description of goods.—Bagging Manufactured from Jute Fiber.

Claims use since Dec. 31, 1909.

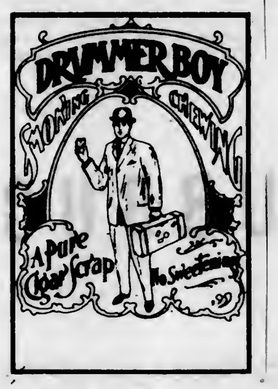
Ser. No. 140,430. (CLASS 39. CLOTHING.) DREIFUS, TICHNER & ECKSTEIN, New York, N. Y., assignor, by mesne assignments, to Louis Tichner, Bertram Tichner, and Milton J. Tichner, copartners, trading as Tichner Bros., New York, N. Y. Filed Nov. 30, 1920.

Linen-weave

Particular description of goods.—Hosiery.

Claims use since 1910.

Ser. No. 141,000½. (CLASS 17. TOBACCO PRODUCTS.) EXCELSIOR TOBACCO CO., St. Louis, Mo. Filed Dec. 13, 1920.



The words "Smoking," "Chewing," "A Pure Cigar Scrap," and "No Sweetening" as shown in mark are disclaimed.

Particular description of goods.—Smoking and Chewing Tobacco.

Claims use since Feb. 1, 1903.

Ser. No. 142,357. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PNEUMATIC SCALE CORPORATION, LIMITED, Norfolk Downs, Mass. Filed Jan. 17, 1921.

PNEUMATIC

Particular description of goods.—Mechanical Packaging Machinery—Namely, Machines for Feeding Carton Blanks, Machines for Sealing the Top and Bottom Flaps of Carton Blanks, Machines for Inserting Linings Into Cartons, Machines for Drying Labels on Containers, Machines for Applying Wrappers to Containers, Machines for Filling Cartons by Volume, Machines for Applying Caps to Containers, Machines for Applying Labels to Containers, Devices for Inserting Coupons Into Containers, and Devices for Applying Dates or Distinguishing Marks to Packages.

Claims use since 1904.

Ser. No. 143,095. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS DAVIS KAIN, Chicago, Ill. Filed Feb. 2, 1921.



Trade-mark consists in the representation of a seal, the seal itself being printed in blue with a representation of tapes or ribbons depending therefrom in red, and with the words "Blue Seal" printed in red upon a transverse band of white or other light contrasting color, all as indicated by the conventional lining of the accompanying drawing.

Particular description of goods.—Chemical Exterminators for Rats, Mice, and Vermin.

Claims use as early as Apr. 1, 1917.

Ser. No. 144,041½. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE OTTERSON AUTO-EDUCTOR CO., Springfield, Ohio. Filed Feb. 25, 1921.

THE OTTERSON AUTO-EDUCTOR

Particular description of goods.—Vehicular Apparatus Having Means Adapted to be Lowered Into Sewer Catch Basins and the Like for Removing the Contents Thereof.

Claims use since November, 1916.

Ser. No. 144,526. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JULIAN B. JENSEN, doing business as Pacific Engineering Co., Oakland, Calif. Filed Mar. 9, 1921.

PECO

Particular description of goods.—Rotary and Centrifugal Pumps.

Claims use since Jan. 21, 1921.

Ser. No. 145,054. (CLASS 39. CLOTHING.) BANNER SHIRT CO. INC., New York, N. Y. Filed Mar. 22, 1921.

Banner

Particular description of goods.—Dress, Negligee, Soft, and Sport Shirts.

Claims use since on or about Feb. 15, 1921.

Ser. No. 145,481. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEENDERT VERMEULEN, Waddinxveen near Gouda, Netherlands. Filed Mar. 30, 1921.



All wording excepting the word "Erica" is disclaimed apart from the mark.

Particular description of goods.—Ointment for Treatment of Burns, Scalds, and Other Wounds.

Claims use since Mar. 1, 1920.

Ser. No. 145,545. (CLASS 39. CLOTHING.) ELMER J. BLISS, Boston, Mass. Filed Apr. 1, 1921.

RESCO

Particular description of goods.—Boots and Shoes Made of Leather or Fabric or of a Combination of Leather and Fabric.

Claims use since on or about Sept. 10, 1919.

Ser. No. 145,645. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) POWER SUPPLY COMPANY, Terre Haute, Ind. Filed Apr. 2, 1921.



The words "Guarantee Satisfaction" and "Service Always" are disclaimed.

Particular description of goods.—Electrical Apparatus, Machines, and Supplies, as follows: Fuse Cut-Outs, Telephone Bells, Brush Pigtails, Carbon Brushes, Burning-In Machines, Buzzers, Annunciator Cable, Circuit Breakers, Armored Conductors, Conduit Boxes, Cut-Out Boxes, Cut-Outs, Columbia Dry Batteries, Flash Lights, Nonarcing Inclosed Fuses, Electric Bells, Generator Motor Sets, Glass Insulators, Electric Lamps, Electric Locomotives, Electric Motors, Attachment Plugs, Rosettes, Fluted-Catch Sockets, Power and Lighting Switchboards, Battery-Charging Switches, Telephones, Trolley-Wire Supports, Electric Wire, Electric Cable, Electric Switches, Switchboards, Porcelain Insulators, and Electric Rail Bonds.

Claims use since December, 1919.

Ser. No. 146,087. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE ANONYME DES PRODUITS DU LION NOIR, Montrouge near Paris, France. Filed Apr. 12, 1921.



Exclusive use of printed words appearing in drawing, with exception of the words "Lion Noir," is disclaimed apart from the mark.

Particular description of goods.—Bleaching Compounds, Powders, and Fluids; Chemical Products for Removing Rust Stains, Dyestuffs, Lye, and Chemical Preparations for Cleaning and Sterilizing Fabrics Containing Rubber.

Claims use since May, 1884.

Ser. No. 146,089. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE ANONYME DES PRODUITS DU LION NOIR, Montrouge near Paris, France. Filed Apr. 12, 1921.

LION NOIR

Particular description of goods.—Bleaching Compounds, Powders, and Fluids; Dyestuffs, Lye, Chemical Preparations for Cleaning and Sterilizing Fabrics Containing Rubber.

Claims use since May, 1884.

Ser. No. 146,433. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ELI F. GOLDBERG, Rochester, N. Y. Filed Apr. 20, 1921.

LEWGOLD

Particular description of goods.—Razors, Shears, and Files.

Claims use since Dec. 14, 1920.

Ser. No. 148,510. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921.

SERICHROME

Trade-mark, "Serichrome." Applicant disclaims exclusive right to the word "Chrome" apart from the mark shown.

Particular description of goods.—Dyes, Dyestuffs, and Colors.

Claims use since Feb. 4, 1911.

Ser. No. 148,624. (CLASS 39. CLOTHING.) A. STEIN & COMPANY, Chicago, Ill. Filed June 8, 1921.

HICKORY

Trade-mark "Hickory."

Particular description of goods.—Household Aprons, Girdle Supporters, and Baby Pants.

Claims use since January, 1913.

Ser. No. 148,745. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP CO., Los Angeles, Calif. Filed June 6, 1921.

WHITE CHUNK



Particular description of goods.—Laundry Soap.

Claims use since Mar. 23, 1921.

Ser. No. 149,363. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SUM-SHINE POLISH CO., Columbus, Ohio. Filed June 18, 1921.

SUM SHINE

Particular description of goods.—Metal Polish.

Claims use since May 1, 1921.

Ser. No. 149,668. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. ARENDT DRUG CO., Chicago, Ill. Filed June 23, 1921.

GOLDEN NERVINE

The word "Nervine" is disclaimed apart from the mark.

Particular description of goods.—Medicinal Preparation for Treatment of Nerves, Stomach, Liver, Kidneys, Blood, and Catarrhal Affections.

Claims use since 1872.

Ser. No. 150,195. (CLASS 39. CLOTHING.) GOLDSTEIN & LEVIN, Philadelphia, Pa. Filed July 7, 1921.



Particular description of goods.—Outer Skirts.

Claims use since March, 1913.

Ser. No. 150,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES EDWIN ROGERS, doing business as Rogers Drug Store, Geary, Okla. Filed July 12, 1921.



Particular description of goods.—Foot Powder.

Claims use since Oct. 1, 1906.

Ser. No. 150,501. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMICAL PRODUCTS COMPANY, Kent, Wash. Filed July 19, 1921.



No claim is made to the exclusive use of the words "Kent" and "Wash," apart from the mark as shown.

Particular description of goods.—Chemical Products Consisting of a Solution of Cresylic Acid, Resin, and Kerosene to be Used for the Destruction of Noxious Weeds.

Claims use since Jan. 1, 1921.

Ser. No. 150,729. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BERT CARLISLE, Santa Ana, Calif. Filed July 21, 1921.



No claim is made to the words "Pony Blimp" and illustration of toy apart from the mark.

Particular description of goods.—Toy Flying Machines.

Claims use since June 21, 1921.

Ser. No. 150,970. (CLASS 37. PAPER AND STATIONERY.) LINTON & SCOTT, New York, N. Y. Filed July 26, 1921.



The words "Finest Quality," "Crepe," and "Tissue" are disclaimed and the word "Luxury" is the subject of a separate trade-mark application by the same registrants and forms no part of present registration.

Particular description of goods.—Toilet Paper.

Claims use since Apr. 15, 1917.

Ser. No. 151,076. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BENEKE & KROPF MANUFACTURING COMPANY, Chicago, Ill. Filed July 29, 1921.



Particular description of goods.—Carburetors, Thermostatic Controls for Internal-Combustion Engines, Cooling Systems for Hydrocarbon Engines, Dash Controls for Carburetors.

Claims use since about Aug. 1, 1910.

Ser. No. 151,765. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JAMES ORDWAY MIDDLEWORTH, doing business as Carnahan Manufacturing Company, San Diego, Calif. Filed Aug. 13, 1921.



No claim to the words "Oil Gauge" apart from the mark.

Particular description of goods.—Oil Gauges.

Claims use since July 1, 1921.

Ser. No. 151,954. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MIDLAND CHEMICAL LABORATORIES, INC., Dubuque, Iowa. Filed Aug. 19, 1921.



No claim to the words "Guaranteed Basic Products" apart from mark. Drawing represented with shading.

Particular description of goods.—Liquid Soap, Soft Soap, Automobile Soap, Surgical Soap, Scrubbing Compound, Potash Cleaning Compound for General Cleaning and Scrubbing Purposes, Pine Cleanser for General Cleansing Purposes, Metal Polish, Brass Polish, Silver Polish, Dust-Layer Compounds, and Sweeping Compounds.

Claims use since Oct. 22, 1917.

Ser. No. 152,415. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAMPION TOOL COMPANY, Meadville, Pa. Filed Aug. 31, 1921.

OUR PRIDE

Particular description of goods.—Farriers' Tools—Namely, Hammers, Nippers, Pincers, Hoof Parers, Hoof Shears, Tongs, Knives, Hardies, Pritchels, and Buffers.

Claims use since 1908.

Ser. No. 152,416. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAMPION TOOL COMPANY, Meadville, Pa. Filed Aug. 31, 1921.

CRITICS'

Particular description of goods.—Farriers' and Cobblers' Tools—Namely, Hammers, Nippers, Pincers, Hoof Parers, Hoof Shears, Tongs, Knives, Hardies, Pritchels, and Buffers.

Claims use since 1912.

Ser. No. 152,418. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAMPION TOOL COMPANY, Meadville, Pa. Filed Aug. 31, 1921.

CHAMPION

Particular description of goods.—Farriers' Tools—Namely, Hammers, Nippers, Clinch Tongs, Hoof Parers, Hoof Shears, Pincers, Knives, Hardies, Pritchels, Buffers, and Tongs; Blacksmith Tools—Namely, Anvil Tools, Tongs, Hand Hammers, Nippers, and Pincers; Blacksmiths' and Machinists' Wrenches; Hammers—Namely, Machinists', Carpenters', and Cobblers'; and Riveting Clippers, Cold Chisels, Hand Punches, and Cobblers' Tools—Namely, Hammers, Nippers, and Pincers.

Claims use since 1887.

Ser. No. 153,816. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM M. LADD, Lake City, Iowa. Filed Oct. 6, 1921.



The portrait is that of applicant.

Particular description of goods.—Dry-Cleaning Preparation for Cleaning Fabric and Like Goods.

Claims use since Mar. 1, 1921.

Ser. No. 153,875. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DEEP RIVER MILLS, INC., Randleman, N. C. Filed Oct. 8, 1921.

POLLYANNA

"Pollyanna" (trade-mark.)

Particular description of goods.—Ginghams in the Piece.

Claims use since June 20, 1921.

Ser. No. 154,387. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SMALLWOOD STONE COMPANY, Steubenville, Ohio. Filed Oct. 20, 1921.

EMPIRE

Particular description of goods.—Pulp Stones for Wood-Pulp-Working Machines, Machinery, and Tools, and Parts Thereof.

Claims use since Jan. 1, 1906.

Ser. No. 154,474. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BIOSONE SYNDICATE LIMITED, London, England. Filed Oct. 24, 1921.

BIOZONE

Particular description of goods.—Salts, Used for the Following Ailments: Gout, Rheumatism, Sciatica, Rheumatoid Arthritis in Hands and Feet, Neuritis, Influenza, Malarial Fever, Gas Poisoning, Psoriasis, Eczema, and Other Kindred Ailments; Medicinal Bath Salts, Used Externally in Connection with the Salts Which Are Taken Internally in All the Above-Mentioned Diseases Except Malarial Fever; the Bath Salts Are Also Used in Hot Fomentations in Rheumatic Cases; Nasal Douche, Used for Colds, Nasal Catarrh, and Kindred Ailments; Gargle, Used for Throat Troubles and as a Disinfectant; Cattle Salts, Used for Foot and Mouth Disease, Cattle Fever, Etc.

Claims use since Feb. 25, 1910.

Ser. No. 154,900. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) N. SOLOW, New York, N. Y., assignor to William Prym Co., Ltd., Stolberg, Rhineland, Germany. Filed Nov. 3, 1921.



Particular description of goods.—Pins of All Kinds—Namely, Solid-Head Pins, Safety Pins, Hooks and Eyes, and Snap Fasteners.

Claims use since July 1, 1921.

Ser. No. 155,286. (CLASS 39. CLOTHING.) ALEXANDER WOLFF & CO., New York, N. Y. Filed Nov. 10, 1921.



No claim to the word "Clothes" apart from mark.

Particular description of goods.—Men's and Boys' Suits.

Claims use since Aug. 29, 1921.

Ser. No. 155,446. (CLASS 17. TOBACCO PRODUCTS.) LEO L. POST, Forest Hills, N. Y. Filed Nov. 16, 1921.



Particular description of goods.—Cigarettes.

Claims use since Sept. 1, 1921.

Ser. No. 155,649. (CLASS 38. PRINTS AND PUBLICATIONS.) WILBUR N. VAN SANT, Baltimore, Md. Filed Nov. 19, 1921.



Particular description of goods.—Monthly Publication.
Claims use since July 1, 1921.

Ser. No. 155,741. (CLASS 37. PAPER AND STATIONERY.) THE ESTERBROOK STEEL PEN MFG. CO., Camden, N. J. Filed Nov. 22, 1921.



Consisting of a rectangular red label in two parts, designed to cover the top and bottom, respectively, of a rectangular box or container, crossed on its upper portion by a black band having gilt edges. On the upper portion of the label appears the portrait of R. Esterbrook, the founder of applicant's business, and the numerals "1858," the name "Esterbrook," and certain printed matter of a descriptive character. The lower portion of the label contains a panel embodying certain printed and decorative matter, and on both the upper and lower portions of the label appears the signature "R. Esterbrook & Co." in the handwriting of R. Esterbrook. The colors and arrangement thereof substantially as described and shown in the accompanying drawing are claimed as features of the mark. No claim is made to the exclusive use, apart from the mark shown in the drawing, of the words "Pens," "Reg. U. S. Pat. Off.," "Made in U. S. A.," or the printed matter in the lower panel, except the facsimile signature "R. Esterbrook & Co." and the name "The Esterbrook Steel Pen Mfg. Co."

Particular description of goods.—Pens and Fountain Pens.
Claims use since about November, 1919.

Ser. No. 155,951. (CLASS 39. CLOTHING.) BENNETT & WEDMER INC., New York, N. Y. Filed Nov. 26, 1921.



Particular description of goods.—Hosiery; Knitted and Textile Fabric Underwear for Men, Women, and Children; Knit Goods—Namely, Bathing Suits and Sweaters; Leather, Rubber, Fabric, and Knitted Gloves; Dress, Negligee, and Work Shirts; Neckwear—Namely, Neckties and Scarfs; Shoes Made from Leather, Rubber, Fabric, and Composite Materials; Cloaks, Suits, Dresses, Waists; Hats and Caps for Men, Women, and Children.
Claims use since about July 22, 1921.

Ser. No. 156,439. (CLASS 11. INKS AND INKING MATERIALS.) CARL A. BLACK, doing business as J. Peck & Co., Cleveland, Ohio. Filed Dec. 8, 1921.

Century

Particular description of goods.—Writing Ink and Ink Powder Known as Ink Essence.
Claims use since about the fall of 1900.

Ser. No. 156,602. (CLASS 39. CLOTHING.) SAMEK & LOBEL, New York, N. Y. Filed Dec. 12, 1921.

Salo

Particular description of goods.—Ladies' Silk Undergarments, Negligees, and Corsets.
Claims use since Nov. 1, 1916.

Ser. No. 156,731. (CLASS 39. CLOTHING.) BARNETT ARK, North Adams, Mass. Filed Dec. 15, 1921.

ARKTEX

Particular description of goods.—Coats, Overcoats, Trousers, and Knickerbockers.
Claims use since Feb. 1, 1921.

Ser. No. 156,745. (CLASS 39. CLOTHING.) KNICKERBOCKER MANUFACTURING CO. INC., New York, N. Y. Filed Dec. 15, 1921.

PANTYBLOOMER

Particular description of goods.—A Garment of the Type Known as Knickers, Worn as an Outer Garment by Men, Women, and Children or Worn as Underwear Bloomers and Gymnasium Bloomers by Women and Children.
Claims use since Nov. 1, 1921.

Ser. No. 157,051. (CLASS 42. KNITTED, NETTED, AND TEXTILE FEBRICS. THE WILBY-BICKFORD-SWEET CO., Worcester, Mass. Filed Dec. 22, 1921.



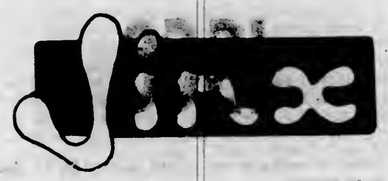
No claim to the word "Fabrics" apart from the mark. The lining in drawing is for shading only.
Particular description of goods.—Knit Goods in the Piece, Made of Cotton, Silk, Wool, or Mixtures of the Same.
Claims use since June 1, 1921.

Ser. No. 157,208. (CLASS 39. CLOTHING.) ALFRED BOEHM, doing business as Lynx Knitting Mills, New York, N. Y. Filed Dec. 28, 1921.



Particular description of goods.—Hosiery, Knitted and Woven Underwear and Undersuits for Men, Women, and Children.
Claims use since about Dec. 15, 1921.

Ser. No. 157,238. (CLASS 11. INKS AND INKING MATERIALS.) SUPER SAFTEE INK CORPORATION, New York, N. Y. Filed Dec. 28, 1921.



Particular description of goods.—Writing Ink.
Claims use since about Nov. 22, 1921.

Ser. No. 157,596. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) L. D. BERGER, doing business as L. D. Berger Company, Philadelphia, Pa. Filed Jan. 7, 1922.



The words "Quality-Brand" and "Trade-Mark" are disclaimed apart from mark shown.
Particular description of goods.—Eaves-Trough Hangers, Conductor Hooks and Fasteners.
Claims use since December, 1919.

Ser. No. 157,835. (CLASS 38. PRINTS AND PUBLICATIONS.) HENRY W. GRIMM, New York, N. Y. Filed Jan. 12, 1922.



Particular description of goods.—Vocal-Music Exercises or Articles of Publication on the Voice and Hearing to be Issued from Time to Time.
Claims use since Dec. 19, 1921.

Ser. No. 157,874. (CLASS 39. CLOTHING.) AARONS & HOMES, New York, N. Y. Filed Jan. 13, 1922.

HOEBE FOSTER

The lining in drawing is for shading only.
Particular description of goods.—Women's, Girls', and Misses' Dresses, Tailored Suits, Walking Suits, Sport Suits, Golf Suits, Riding Suits, Coats, Raincoats, Sport Coats, Skirts, and Capes.
Claims use since Dec. 1, 1921.

Ser. No. 157,085. (CLASS 39. CLOTHING.) HARRY COLLINS, INC., New York, N. Y. Filed Jan. 16, 1922.



The name "Harry Collins" shown in drawing is a facsimile of autograph signature of applicant.

Particular description of goods.—Ladies' Dresses, Suits, Wraps, and Fur Pieces.

Claims use since 1917.

Ser. No. 158,016. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HENRY SKANTZE & Co., Gottenberg, Sweden. Filed Jan. 16, 1922.



The words "Simply Won't Rub Off, Stays White, No Mess, Dries Quickly, Economical, Shoe Cream, Stay White" are disclaimed apart from the mark.

Particular description of goods.—Shoe Creams.

Claims use since July 30, 1921.

Ser. No. 158,159. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) CHARLES STEIN, New York, N. Y. Filed Jan. 19, 1922.



No claim is made to word "Umbrella" apart from the mark.

Particular description of goods.—Umbrellas and Parasols.

Claims use since Sept. 1, 1921.

Ser. No. 158,189. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LOGAN-JOHNSON, LTD., Boston, Mass. Filed Jan. 20, 1922.

AMBROSIA PUNCH

No claim to exclusive use of word "Punch" apart from the mark.

Particular description of goods.—Nonalcoholic, Maltless Fruit Sirups for Making Soft Drinks.

Claims use since 1905.

Ser. No. 158,270. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VERNON MANUFACTURING CO., Mount Vernon, N. Y. Filed Jan. 21, 1922.

SILVER CLOUD

Particular description of goods.—Ammonia.

Claims use since 1909.

Ser. No. 158,271. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VERNON MANUFACTURING CO., Mount Vernon, N. Y. Filed Jan. 21, 1922.

HOWLAND'S 20TH CENTURY

Particular description of goods.—Ammonia.

Claims use since 1909.

Ser. No. 158,333. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE QUEEN CITY BOTTLING COMPANY, Cincinnati, Ohio. Filed Jan. 23, 1922.



No claim to the word "Cola" apart from the mark.

Particular description of goods.—A Nonintoxicating, Nonalcoholic, Noncereal, Maltless Fruit Beverage Sold as a Soft Drink and Sirups Used in the Preparation of Same.

Claims use since Mar. 1, 1921.

Ser. No. 158,394. (CLASS 39. CLOTHING.) CHARLES ISKOWITZ, New York, N. Y. Filed Jan. 24, 1922.

ISCO

No claim to exclusive use of the word "Knit" apart from mark shown.

Particular description of goods.—Hosiery.

Claims use since Jan. 3, 1922.

Ser. No. 158,469. (CLASS 39. CLOTHING.) DAVENPORT HOSIERY MILLS, Chattanooga, Tenn. Filed Jan. 26, 1922.



Particular description of goods.—Knitted, Cloth, and Woven Underwear, for Men, Ladies, and Children.

Claims use since December, 1921.

Ser. No. 158,480. (CLASS 39. CLOTHING.) THE LAMB KNIT GOODS CO., Colon, Mich. Filed Jan. 26, 1922.



No claim is made to the word "Knit" apart from the mark.

Particular description of goods.—Men's, Women's, and Children's Sweaters, Bathing Suits, Caps, and Gloves Made from Wool and Saxony Yarn.

Claims use since 1911.

Ser. No. 158,675. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) FRANKENTHALER & FRANKENTHALER, New York, N. Y. Filed Jan. 31, 1922.



This trade-mark consists of the word "Pollyana" arranged within a rectangular figure containing the words "Dainty Hair Ribbons, Happiness in Every Bow, Regulation Length, Price 59¢." Back of and in the center of the rectangular figure is a fanciful picture of a girl with outstretched hands and a ribbon bow of suitable length in her hair. In front of the girl a wreath of flowers is arranged, which is tied with a ribbon forming a number of loops. No claim to use of words "Dainty Hair Ribbons," "Happiness in Every Bow," "Regulation Length," "Price," and numerals "59¢."

Particular description of goods.—Hair Ribbons.

Claims use since Mar. 17, 1920.

Ser. No. 158,879. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCINNES-WALKER CO., Milwaukee, Wis. Filed Feb. 4, 1922.



Particular description of goods.—Coffee.

Claims use since January, 1922.

Ser. No. 158,927. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INDEPENDENT PRODUCTS CO., New York, N. Y. Filed Feb. 6, 1922.

Golden-Eagle

Particular description of goods.—Barley Malt.

Claims use since Sept. 1, 1921.

Ser. No. 159,010. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PEANUT COMPANY, Oakland, Calif. Filed Feb. 8, 1922.



Particular description of goods.—Salted Peanuts.

Claims use since 1910.

Ser. No. 159,042. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BEST McDOWELL CO., Sacramento, Calif. Filed Feb. 8, 1922.



Particular description of goods.—Groceries and Grocery Specialties—viz, Vinegar, Spices, Canned Fruit, Canned Vegetables, Table Sirup, Canned Fish, Prepared Mustard, Salad Oil, and Cooking Oil.
Claims use since 1916.

Ser. No. 159,059. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. K. SMALL COMPANY, Los Angeles, Calif. Filed Feb. 8, 1922.

Sweetie

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Aug. 5, 1921.

Ser. No. 159,061. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRI-STAR NOODLE FACTORY, Chicago, Ill. Filed Feb. 8, 1922.



The picture in drawing is fanciful.
Particular description of goods.—Noodles.
Claims use since Jan. 15, 1921.

Ser. No. 159,165. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. C. RICH, INC., New York, N. Y. Filed Feb. 9, 1922.

PRESTO!
Jell

Particular description of goods.—Gelatin.
Claims use since Dec. 26, 1921.

Ser. No. 159,143. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CAMEO RECORD CORPORATION, New York, N. Y. Filed Feb. 10, 1922.

Cameo

Particular description of goods.—Phonograph Records.
Claims use since Jan. 2, 1922.

Ser. No. 159,263. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) A. J. HAGUE & CO. INC., New York, N. Y. Filed Feb. 13, 1922.

Marvel

Particular description of goods.—Hand Sewing Needles.
Claims use since 1906.

Ser. No. 159,264. (CLASS 40. FANCY GOODS, FURNISHINGS AND NOTIONS.) A. J. HAGUE & CO. INC., New York, N. Y. Filed Feb. 13, 1922.

HOMESTEAD

Particular description of goods.—Hand Sewing Needles.
Claims use since October, 1921.

Ser. No. 159,280. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES B. NICHOLS, Memphis, Tenn. Filed Feb. 13, 1922.

Lung-Life

Particular description of goods.—Preparation for Treatment of Lung Trouble.
Claims use since Feb. 22, 1920.

Ser. No. 159,301. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD F. WHITE, doing business as The White Products Company. (a Firm,) Norfolk, Va. Filed Feb. 13, 1922.



Particular description of goods.—Preparation for the Treatment of Coughs, Colds, Bronchitis, Croup, Rheumatism, Pneumonia, Headache, Neuralgia, and Sore Joints and Muscles.
Claims use since Jan. 1, 1922.

Ser. No. 159,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) McLEOD & NIESZ, Buffalo, N. Y. Filed Feb. 14, 1922.

Healiment

Particular description of goods.—Medicinal Ointment for Piles, Sunburn, Burns, Cuts, Varicose Veins, Chapped Hands, Boils, Bruises, Insect Bites, Abscesses, Running Sores, Eczema, and All Skin Irritations.
Claims use since Oct. 15, 1921.

Ser. No. 159,334. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AULD ACQUAINTANCE CO., Grand Rapids, Mich. Filed Feb. 15, 1922.

Auld Acquaintance

Particular description of goods.—Toilet and Pharmaceutical Preparations—Namely, Talcum Powder, Tooth Paste, Hair Tonic, Face Powder, Cream Lotion, Cold Cream, and Vanishing Cream.
Claims use since Jan. 11, 1922.

Ser. No. 159,402. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILFRID I. BOOTH, Elmira, N. Y. Filed Feb. 16, 1922.



Particular description of goods.—Candy.
Claims use since about 1901.

Ser. No. 159,659. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 21, 1922.

KENDENE

Particular description of goods.—Detergent Preparations—Namely, Soap Products.
Claims use since Jan. 26, 1922.

Ser. No. 159,799. (CLASS 39. CLOTHING.) HOLTITE MANUFACTURING CO., Baltimore, Md. Filed Feb. 25, 1922.



Particular description of goods.—Rubber Heels for Shoes.
Claims use since Oct. 4, 1921.

Ser. No. 159,998. (CLASS 27. HOROLOGICAL INSTRUMENTS.) DR FRECH BERNSTEIN, New York, N. Y. Filed Mar. 1, 1922.

D.F.B.

Exclusive use of representation of watchcase is disclaimed apart from mark.

Particular description of goods.— Watchcases and Watches.

Claims use since Jan. 12, 1922.

Ser. No. 160,018. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) INTERNATIONAL TOY COMPANY, LIMITED, Montreal, Quebec, Canada. Filed Mar. 1, 1922.

GALLOPING-GEE-GEE

"Galloping-Gee-Gee" (trade-mark).

Particular description of goods.—Velocipedes and Go-carts for Children.

Claims use since May 21, 1921.

Ser. No. 160,040. (CLASS 39. CLOTHING.) ARMSTRONG CORK COMPANY, Pittsburgh and Lancaster, Pa. Filed Mar. 2, 1922.

KEYSTONE

Particular description of goods.—Rubber Heels.

Claims use since Feb. 4, 1922.

Ser. No. 160,156. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MARTIN SCHWEIBOLD and JACOB SCHWEIBOLD, Philadelphia, Pa. Filed Mar. 3, 1922.

Boldo

Particular description of goods.—Radioreceiving Apparatus.

Claims use since Jan. 16, 1922.

Ser. No. 160,167. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VOX-SCHALLPLATTEN-UND SPRECHMASCHINEN-AKTIENGESELLSCHAFT, Berlin, Germany. Filed Mar. 3, 1922.



Particular description of goods.—Talking Machines, Dictating Machines, and Records for Talking Machines.

Claims use since Jan. 12, 1920.

Ser. No. 160,222. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOLVERINE SUPPLY AND MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Mar. 4, 1922.

"DUMPING SANDY"

Particular description of goods.—Sand and Marble Operated Mechanical Toys.

Claims use since July 8, 1915.

Ser. No. 160,223. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOLVERINE SUPPLY AND MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Mar. 4, 1922.

"BIZZY ANDY"

Particular description of goods.—Sand and Marble Operated Mechanical Toys.

Claims use since Feb. 17, 1917.

Ser. No. 160,224. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOLVERINE SUPPLY AND MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Mar. 4, 1922.

BOWLER ANDY

Particular description of goods.—Sand and Marble Operated Mechanical Toys.

Claims use since June 28, 1917.

Ser. No. 160,232. (CLASS 39. CLOTHING.) J. W. CARTER & CO., Nashville, Tenn. Filed Mar. 6, 1922.

J.W. Carter AND COMPANY

Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather.

Claims use since Apr. 1, 1921.

Ser. No. 160,234. (CLASS 39. CLOTHING.) J. W. CARTER & CO., Nashville, Tenn. Filed Mar. 6, 1922.

My Boy

Trade-mark "My Boy."

Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather.

Claims use since Apr. 1, 1921.

Ser. No. 160,361. (CLASS 38. PRINTS AND PUBLICATIONS.) MUSICAL COURIER COMPANY, INC., New York, N. Y. Filed Mar. 8, 1922.

MUSICAL COURIER

Particular description of goods.—Musical Magazine Published Weekly.

Claims use since Jan. 1, 1892.

Ser. No. 160,427. (CLASS 11. INKS AND INKING MATERIALS.) THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Filed Mar. 9, 1922. Under ten-year proviso.

QUEEN CITY

Particular description of goods.—Printing Inks.

Claims use since 1862.

Ser. No. 160,473. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

Glossiwave

Particular description of goods.—Brilliantine.

Claims use since 1914.

Sr. No. 160,531. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURTON BROS. & CO., New York, N. Y. Filed Mar. 11, 1922.

EVERWEAR GOLF

Particular description of goods.—Cotton Shirting in the Piece.

Claims use since July, 1921.

Ser. No. 160,554. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KRANISH BROS., New York, N. Y. Filed Mar. 11, 1922.

"Silver Girl"

Trade-mark "Silver Girl."

Particular description of goods.—Woven and Narrow Fabrics—viz, Binding Tapes, Elastic Webbing, and Dress Belting.

Claims use since December, 1921.

Ser. No. 160,655. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BUCK MIX PRODUCTIONS, INC., New York, N. Y. Filed Mar. 14, 1922.



Trade-mark consists of words "Buck Mix" in connection with picture of a saddle.

Particular description of goods.—Motion-Picture Films.

Claims use since Mar. 9, 1922.

Ser. No. 160,703. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Mar. 15, 1922.

VAPOCIDE

Particular description of goods.—Fumigating Materials, Fungicides, and Insecticides.
Claims use since December, 1921.

Ser. No. 160,710. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEXANDER KANTAR, Pittsburgh, Pa. Filed Mar. 15, 1922.

NOZOL
(NOSE ALL)

Particular description of goods.—Liquid Used for Antiseptic Purposes, as a Deodorizer, Germicide, and Lubricant for Use in the Nose.
Claims use since Jan. 1, 1922.

Ser. No. 160,739. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. T. GRANT COMPANY, New York, N. Y. Filed Mar. 16, 1922.

TAP-X

No claim to exclusive right to representation of goods apart from mark.
Particular description of goods.—Stair Carpeting and Tapestry Rugs.
Claims use since Feb. 17, 1922.

Ser. No. 160,776. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed Mar. 16, 1922.

FLEXATOR

Particular description of goods.—Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or other Fabric Construction.
Claims use since Feb. 16, 1922.

Ser. No. 160,779. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed Mar. 16, 1922.

LAFAYETTE

Particular description of goods.—Talking Machines and Phonographs.
Claims use since on or about Nov. 1, 1921.

Ser. No. 160,842. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOMER L. ASAELIN, doing business as Raelin Products Company, San Francisco, Calif. Filed Mar. 18, 1922.

RAELIN

Particular description of goods.—Liver Tablet.
Claims use since Dec. 1, 1920.

Ser. No. 160,976. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABSALOM SMITH, Eau Claire, Wis. Filed Mar. 20, 1922.

ABSMITHS
OINTMENT

No claim to the word "Ointment" apart from the mark shown.
Particular description of goods.—Ointment for Eczema, Ulcers, Itch, Sores, Ringworm, Piles, Rashes, and All Skin Diseases.
Claims use since Feb. 17, 1922.

Ser. No. 161,015. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) TONEPEN COMPANY, New York, N. Y. Filed Mar. 21, 1922.

"TONEPEN"

No claim is made to words "Trade-Mark" or to representation of phonograph needle apart from mark.
Particular description of goods.—Phonograph Needles.
Claims use since May 21, 1921.

Ser. No. 161,023. (CLASS 39. CLOTHING.) T. D. BARRY COMPANY, Brockton, Mass. Filed Mar. 22, 1922. Under ten-year proviso.

Barry

Trade-mark "Barry."
Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since prior to 1895.

Ser. No. 161,063. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARPENTER-MORTON COMPANY, Boston, Mass. Filed Mar. 22, 1922.

BLEACHITE

"Bleachite," trade-mark.
Particular description of goods.—Bleaching Compounds.
Claims use since Feb. 20, 1922.

Ser. No. 161,038. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. DUNLEAVY, Cambridge, Mass. Filed Mar. 22, 1922.

PREDOL

Particular description of goods.—Hair Tonics.
Claims use since Mar. 10, 1922.

Ser. No. 161,079. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE C. WILSON, doing business as The Wilson Chemical Company, Tyrone, Pa. Filed Mar. 22, 1922.

PERSIAN GARDEN

Particular description of goods.—Face Cream.
Claims use since 1914.

Ser. No. 161,102. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN COMPANY FOR INTERNATIONAL COMMERCE, New York, N. Y. Filed Mar. 23, 1922.



No claim to word "Brand" apart from mark.
Particular description of goods.—Cotton Sheeting.
Claims use since Dec. 30, 1918.

Ser. No. 161,110. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN CAMPBELL & CO., New York, N. Y. Filed Mar. 23, 1922.

CAMELITE

Trade-mark "Camelite."
Particular description of goods.—Color-Stripping and Dye-Removing Compound.
Claims use since Mar. 10, 1922.

Ser. No. 161,133. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM M. KONIKOV, doing business as The Konikov Chemical Laboratories, Boston, Mass. Filed Mar. 23, 1922.

PRE-KON-SOL

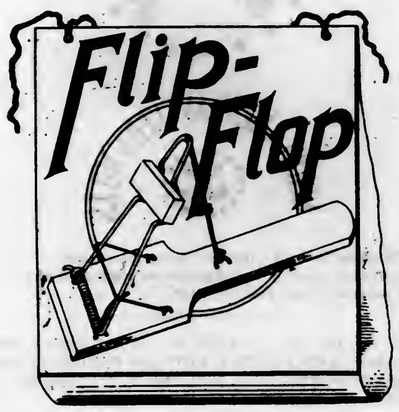
Particular description of goods.—Medicated Compound for Female Ailments.
Claims use since Jan. 20, 1922.

Ser. No. 161,135. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LIVERPOOL BORAX CO., LIMITED, Liverpool, England. Filed Mar. 23, 1922.

LISSOM

Particular description of goods.—Size for use in Connection with Woolen Warps and for Finishing Textile Piece Goods.
Claims use since Feb. 17, 1912.

Ser. No. 161,154. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CLARENCE R. STEWART, Spokane, Wash. Filed Mar. 23, 1922.



No claim is made to representation of a catapult and target apart from the mark shown.
Particular description of goods.—Toy Catapults and Targets.
Claims use since Mar. 16, 1922.

Ser. No. 161,166. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JULIUS BERBECKER & SONS, INC., New York, N. Y. Filed Mar. 24, 1922.

WARWICK CASTLE

Particular description of goods.—Hand Sewing Needles.
Claims use since on or about Jan. 12, 1922.

Ser. No. 161,208. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE M. SHAFFER COMPANY, Philadelphia, Pa. Filed Mar. 24, 1922.

HILARIS

Particular description of goods.—Hair Tonic.
Claims use since on or about May 16, 1915.

Ser. No. 161,279. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J. Filed Mar. 25, 1922.

GARÇA

Particular description of goods.—Petrolatum, Petrolatum Greases, and Petrolatum Oils.
Claims use since Sept. 27, 1921.

Ser. No. 161,288. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED STATES DENTAL SPECIALTY CO., San Francisco, Calif. Filed Mar. 25, 1922.

LUSTRODENT

"Lustrodent."
Particular description of goods.—Tooth Paste.
Claims use since Nov. 15, 1921.

Ser. No. 161,295. (CLASS 37. PAPER AND STATIONERY.) BLAKE, MCFALL COMPANY, Portland, Oreg. Filed Mar. 27, 1922.

TRY THE DRUG STORE FIRST

Particular description of goods.—Wrapping Paper.
Claims use since Nov. 8, 1921.

Ser. No. 161,318. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN F. KETELS, doing business as Amber-o-latum Laboratory, Springfield, Oreg. Filed Mar. 27, 1922.

AMBER-O-LATOM

Particular description of goods.—Ointment for Colds, Croup, Pneumonia, and Influenza.
Claims use since Aug. 20, 1921.

Ser. No. 161,344. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH M. ABOUSSLEMAN, doing business as Youth-Ami Laboratories, New York, N. Y. Filed Mar. 28, 1922.

Youth-Ami

Particular description of goods.—Toilet Preparations—viz, Liquid Skin Peel and Hair Tonic.
Claims use since Mar. 15, 1922.

Ser. No. 161,365. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Mar. 28, 1922.

ORCHITRIN

Trade-mark "Orchitrin."
Particular description of goods.—Medicinal Preparation for use as an Aphrodisiac and Metabolic Stimulant.
Claims use since Mar. 11, 1922.

Ser. No. 161,367. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Mar. 28, 1922.

AMYTAL

Trade-mark "Amytal."
Particular description of goods.—Medicinal Preparation in Tablet Form for Use as a Sedative and Hypnotic.
Claims use since Feb. 23, 1922.

Ser. No. 161,393. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE TAPPAN STOVE COMPANY, Mansfield, Ohio. Filed Mar. 28, 1922.



Particular description of goods.—Gas and Coal Ranges and Stoves.
Claims use since Mar. 3, 1922.

Ser. No. 161,435. (CLASS 17. TOBACCO PRODUCTS.) THOMAS A. HENDERSON, Merchantville, N. J. Filed Mar. 29, 1922.



Mark consists of a red band with blue circle in the middle, said band and circle being surrounded by a border of gold, said circle having a star in gold inclosed therein, and having in white letters the words "The Choice of the Nation" and "Legionnaire." At right of said circle are two service stripes in gold, and at left of said circle three service stripes in gold.
Particular description of goods.—Cigars.
Claims use since Feb. 20, 1922.

Ser. No. 161,441. (CLASS 39. CLOTHING.) MORSE & BURT CO., INC., Brooklyn, N. Y. Filed Mar. 29, 1922.



No claim to exclusive use of the mere representation of a shoe.
Particular description of goods.—Shoes of Leather, Fabric, and Combinations.
Claims use since Sept. 21, 1920.

Ser. No. 161,443. (CLASS 38. PRINTS AND PUBLICATIONS.) SARAH M. MORGAN, Belvedere, Calif. Filed Mar. 29, 1922.

MERRY MAKERS

Particular description of goods.—Recipes Which are Issued from Time to Time as Desired.
Claims use since Feb. 18, 1922.

Ser. No. 161,453. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROGERS BROTHERS, New York, N. Y. Filed Mar. 29, 1922.

ROGERS

Particular description of goods.—Face Powder, Talc Powder, Almond Lotion, Cold Cream, Vanishing Cream, Massage Cream, Dental Cream, Lip Stick, Rouge, Hair Tonic, Hair Shampoo, and Hair Dye.
Claims use since July 15, 1920.

Ser. No. 161,462. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, trading as A. C. Meyer & Co., Baltimore, Md. Filed Mar. 29, 1922. Under ten-year proviso.

Dr. John W. Bull's

Particular description of goods.—Medicinal Preparation in Dry Form—Namely, Pills Having Laxative and Tonic Properties.
Claims use since 1858.

Ser. No. 161,506. (CLASS 42, KNITTED, NETTED, AND TEXTILE FABRICS.) NEW ENGLAND COMMERCIAL CO., INC., New York, N. Y. Filed Mar. 30, 1922.



Trade-mark consists of the representation of a tropical landscape with a tiger in the foreground in connection with the word "Necco."
Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 11, 1922.

Ser. No. 161,[illegible] (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE VALLEY REMEDY CO., Sullivan, Ind. Filed Apr. 1, 1922.

FLU-KAPS

Particular description of goods.—Cold Capsules.
Claims use since Jan. 15, 1920.

Ser. No. 161,704. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE ROBERT-MORTON COMPANY, San Francisco, Calif. Filed Apr. 3, 1922.

ROBERT-MORTON

Particular description of goods.—Orchestral Pipe Organs.
Claims use since May 2, 1917.

Ser. No. 161,708. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE VEGA COMPANY, Boston, Mass. Filed Apr. 3, 1922.

WHYTE LAYDIE

Particular description of goods.—Banjos.
Claims use since January, 1890.

Ser. No. 161,709. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE VEGA COMPANY, Boston, Mass. Filed Apr. 3, 1922.

TU-BA-PHONE

Particular description of goods.—Banjos.
Claims use since January, 1906.

Ser. No. 161,717. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) BEAR HOPS, MALT & EXTRACT CO., Brooklyn, N. Y. Filed Apr. 4, 1922.

BEAR BRAND



No claim to the word "Brand" apart from mark.
Particular description of goods.—Malt Sirup.
Claims use since Mar. 10, 1920.

Ser. No. 161,719. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMER, FETTERALY & CO. INC., Union Hill, N. J., and New York, N. Y. Filed Apr. 4, 1922.

ENZYDYN

Particular description of goods.—Pharmaceutical Preparation Composed of Medicinal Digestive Sustances for the Correction of Faulty Gastrointestinal Digestion.
Claims use since Sept. 15, 1921.

Ser. No. 161,725. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID H. FULTON & BRO., Baltimore, Md. Filed Apr. 4, 1922.

HI-SPEED

Particular description of goods.—Laxative Tablets.
Claims use since May, 1919.

Ser. No. 161,726. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID H. FULTON & BRO., Baltimore, Md. Filed Apr. 4, 1922.

DRECO

Particular description of goods.—Laxative Tablets.
Claims use since May, 1919.

Ser. No. 161,757. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIP J. SCHLICHTMANN, doing business as The Slick Drug Co., Philadelphia, Pa. Filed Apr. 4, 1922.

Slick-Oyl



Particular description of goods.—Preparation Used for Gargling.
Claims use since Oct. 20, 1914.

Ser. No. 161,775. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HANCOCK-SMITHS, INCORPORATED, Baltimore, Md. Filed Apr. 5, 1922.

Dental-Ade

Particular description of goods.—Liquid Antiseptic and Mouth Wash.
Claims use since Feb. 7, 1922.

Ser. No. 161,793. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. PALMER, doing business as Floramol Chemical Co., Baltimore, Md. Filed Apr. 5, 1922.

FLORAMOL

Particular description of goods.—Antiseptic Healing Ointment for Treatment of Sores, Cuts, Burns, Scalds; Chapped Hands, Face, and Lips; Sunburn, Catarrh, Itching Piles, Eczema, Itching Skin, and Insect Bites.
Claims use since on or about Feb. 1, 1922.

Ser. No. 161,823. (CLASS 38. PRINTS AND PUBLICATIONS.) DOG WORLD PUBLISHING CO., Chicago, Ill. Filed Apr. 6, 1922.

DOG WORLD
DEVOTED TO DOGS

Particular description of goods.—Monthly Publication.
Claims use since Jan. 2, 1922.

Ser. No. 161,836. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOOKER ELECTROCHEMICAL COMPANY, Niagara Falls, N. Y. Filed Apr. 6, 1922.

PARACIDE

Particular description of goods.—Insecticides.
Claims use since Mar. 27, 1922.

Ser. No. 161,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOOKER ELECTROCHEMICAL COMPANY, Niagara Falls, N. Y. Filed Apr. 6, 1922.

PARADI

Particular description of goods.—Insecticides.
Claims use since Mar. 27, 1922.

Ser. No. 161,841. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAY RITÉ LABORATORY, St. Louis, Mo. Filed Apr. 6, 1922.

LayRité

Particular description of goods.—Face Powder and Perfumes.
Claims use since Dec. 1, 1921.

Ser. No. 161,847. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Eukodal

Particular description of goods.—Dihydrooxycodeinonchlorhydrate.
Claims use since January, 1917.

Ser. No. 161,848. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Choleval

Particular description of goods.—Colloidal Sliver Preparation Combined with Sodium Cholate as Protective Colloid.
Claims use since June 15, 1912.

Ser. No. 161,849. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Argochrom

Particular description of goods.—Methylene Blue Silver Compound.
Claims use since February, 1917.

Ser. No. 161,850. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Theacylon

Particular description of goods.—Acetylsalicyloyltheobromine.
Claims use since July, 1915.

Ser. No. 161,851. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Citobaryum

Particular description of goods.—Preparation of Barium Sulphate (Purest) for Ready Administration, Used in X-Ray Diagnosis.
Claims use since June, 1915.

Ser. No. 161,852. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Incarbon

Particular description of goods.—A Suspension of Animal Charcoal of the Highest Adsorptive Power Ready for Injections.
Claims use since December, 1916.

Ser. No. 161,869. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STEPHEN K. WATTS, New York, N. Y. Filed Apr. 6, 1922.

BARMANCO

Particular description of goods.—Cotton Goods, Linens, Madras, and Other Cotton Fabrics in the Piece.
Claims use since Feb. 24, 1922.

Ser. No. 161,889. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LECAR CARBON COMPANY, Springfield, Ohio, assignor to Walter K. Jamison, Stanley B. Mathewson, Howard F. Marston, Mrs. W. K. Jamison, and Mrs. S. B. Mathewson, trustees of the Lecar Carbon Company, Springfield, Ohio, a Trust Estate. Filed Apr. 7, 1922.

LECAR

Particular description of goods.—Carbonizing Compounds.
Claims use since Feb. 13, 1922.

Ser. No. 161,896. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ORSEMUS S. RIMER, doing business as Sweetola Company, Dayton, Ohio. Filed Apr. 7, 1922.

SWEETOLA

Particular description of goods.—Powder Preparation for Use as a Body Deodorant.
Claims use since Apr. 1, 1921.

Ser. No. 161,902. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHERING & GLATZ, INC., New York, N. Y. Filed Apr. 7, 1922.

PERALGA

Particular description of goods.—Medicinal Preparation Recommended as a Pain Alleviator.
Claims use since Mar. 1, 1922.

Ser. No. 161,927. (CLASS 39. CLOTHING.) THE A. T. LEWIS & SON DRY GOODS COMPANY, Denver, Colo. Filed Apr. 8, 1922.

FLEXION

Particular description of goods.—Leather Shoes.
Claims use since about Mar. 1, 1922.

Ser. No. 161,931. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MILLER-FATLAND NOVELTY CO., Chicago, Ill. Filed Apr. 8, 1922.

KICK-ITY-KICK

Trade-mark, "Kick-Ity-Kick."
Particular description of goods.—Combination Inhalers, Remedy for Catarrh, Hay Fever, Colds in the Head, Headaches, and Other Ailments.
Claims use since Sept. 1, 1921.

Ser. No. 161,940. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. ODELL & SONS COMPANY, Newark, N. J. Filed Apr. 8, 1922.

GLOSSINE

Trade-mark, "Glossine."
Particular description of goods.—Liquid Preparation for Controlling Stubborn Hair.
Claims use since Sept. 15, 1921.

Ser. No. 161,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REIDAR G. SEEL, New York, N. Y. Filed Apr. 8, 1922.

Somnacetin

Particular description of goods.—Medicinal Preparation for Internal Use of a Sedative Character.
Claims use since Apr. 15, 1921.

Ser. No. 161,946. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GERTRUDE I. SAMPSON, doing business as Ambercrude Products Co., Philadelphia, Pa. Filed Apr. 8, 1922.

AMBERCRUDE

Particular description of goods.—Preparation for the Treatment of the Hair and Scalp.
Claims use since about Nov. 4, 1921.

Ser. No. 161,956. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEACH CHEMICAL COMPANY, St. Louis, Mo. Filed Apr. 10, 1922.

BRO-ASPRIN

The lining of drawing indicates the color blue.
Particular description of goods.—Medicinal Preparation in Tablet Form for Relief of Colds, La Grippe, Fever, Headache, and Like Ailments.
Claims use since October, 1920.

Ser. No. 161,974. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOSEPH HENRY CALISHER, doing business as The Angelus Powder Puff Co., New York, N. Y. Filed Apr. 10, 1922.

ANGELUS

Particular description of goods.—Powder Puffs of All Descriptions.
Claims use since Feb. 1, 1922.

Ser. No. 162,000. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE T. HASTINGS, doing business as The G. T. Hastings Company and The Snowite Laboratories, New York, N. Y. Filed Apr. 10, 1922.

SNOWITE

Particular description of goods.—Perfume, Face Powder, Rouge, Talcum, Lip Sticks, Camphor-Ice Sticks, Powder Compacts, Rouge Compacts, Day Cream (Vanishing), Cold Cream.
Claims use since Mar. 27, 1922.

Ser. No. 162,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE T. HASTINGS, doing business as The G. T. Hastings Company and The Snowite Laboratories, New York, N. Y. Filed Apr. 10, 1922.

ALICIA

Particular description of goods.—Perfume, Face Powder, Rouge, Talcum, Lip Sticks, Camphor-Ice Sticks, Powder Compacts, Rouge Compacts, Day Cream (Vanishing), Cold Cream.
Claims use since Mar. 27, 1922.

Ser. No. 162,023. (CLASS 38. PRINTS AND PUBLICATIONS.) THOMAS LEVISH, Chicago, Ill. Filed Apr. 10, 1922.

FLAPPER

Particular description of goods.—Monthly Magazine.
Claims use since Apr. 1, 1922.

Ser. No. 162,032. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MISSURA MANUFACTURING CO., Detroit, Mich. Filed Apr. 10, 1922.

WY-Oma

The picture in drawing is fanciful.
Particular description of goods.—Toilet Specialties—viz, Face Creams, Toilet Waters, Shampoo, and Hair Tonics.
Claims use since Nov. 15, 1921.

Ser. No. 162,067. (CLASS 37. PAPER AND STATIONERY.) FRED. C. STRYPE, New York, N. Y. Filed Apr. 10, 1922.

Try The Drug Store First

Trade-mark is not lined for color.
Particular description of goods.—Wrapping Paper, Writing Paper, Writing Tablets, Envelopes, Typewriter Paper, Bond Paper, Ledger Paper, and Blank Books.
Claims use since Oct. 8, 1921.

Ser. No. 162,077. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VAN EPS-RUSS CORPORATION, New York, N. Y. Filed Apr. 10, 1922.

Van Eps

Trade-mark consists of the name "Van Eps" in handwriting of Fred F. Van Eps, president of the corporation.
Particular description of goods.—Banjos.
Claims use since Oct. 6, 1921.

Ser. No. 162,094. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ARGO FABRICS CORPORATION, Philadelphia, Pa. Filed Apr. 11, 1922.

ARGO

Particular description of goods.—Knitted Fabrics—Namely, Jersey Cloth, Chinchilla, Astrakhan, Eider Down, Velour, Tweeds, Suitings, Overcoating, Dress Goods, Cloth for Hats and Caps, and Millinery and Dress Trimmings, All of the Above Being Composed in Whole or in Part of Textile Fibers—Namely, Cotton, Linen, Wool, Worsted, Silk, Artificial Silk, or Animal Hair or a Combination of Two or More of These Textile Fibers.
Claims use since Mar. 22, 1922.

Ser. No. 162,095. (CLASS 11. INKS AND INKING MATERIALS.) ALCHEMIC GOLD COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 11, 1922.

Alchemic Gold

Applicant disclaims exclusive right to the word "Gold" apart from the mark.
Particular description of goods.—Printing Ink, Ink Pigments, and Vehicles Used with Pigments for Compounding Inks.
Claims use since Apr. 1, 1922.

Ser. No. 162,120. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANZ E. LOEB, New York, N. Y. Filed Apr. 11, 1922.

NEOTUSSIN

Particular description of goods.—Sirup for Cough and Catarrh.
Claims use since Feb. 2, 1922.

Ser. No. 162,121. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LINGNER-WERKE AKTIENGELLSCHAFT, Dresden, Germany. Filed Apr. 11, 1922.

Pitralon

Particular description of goods.—Medicinal Preparations for Skin Diseases, Periostitis, Infected Wounds, Insect Bites, Discharging Eczema, Seborrhœa, Herpes Tonsurans, Herpes Labialis, Sycosis Parasitaria, Septic Putrid Processes of the Mouth and Teeth, Lupus of the Face, Chronic Acne, Scabies, Impetigo, and the Like Diseases and Affections.
Claims use since Nov. 26, 1919.

Ser. No. 162,143. (CLASS 17. TOBACCO PRODUCTS.) JOHN SINCLAIR LTD., Newcastle-on-Tyne, England. Filed Apr. 11, 1922.



No claim to words "Trade-Mark" and "Newcastle on Tyne" apart from the mark.
Particular description of goods.—Smoking Tobacco and Cigarettes.
Claims use since May 31, 1905.

Ser. No. 162,406. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HESS, GOLDSMITH & CO. INC., New York, N. Y. Filed Apr. 17, 1922.



Particular description of goods.—Silk, Satin, and Crepe Piece Goods.
Claims use since Nov. 19, 1921.

Ser. No. 162,438. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ORIENTAL SILK PRINTING COMPANY, Haledon, N. J., and New York, N. Y. Filed Apr. 17, 1922.

CHECK-O

Particular description of goods.—Silk, Cotton and Silk and Cotton Goods in the Piece.
Claims use since Jan. 5, 1922.

Ser. No. 162,445. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) TOM A. PALMER, Akron, Ohio. Filed Apr. 17, 1922.

Strikalite

Particular description of goods.—Friction Matches.
Claims use since Apr. 11, 1922.

Ser. No. 162,538. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. ERLANGER, BLUMGART & CO., INC., New York, N. Y. Filed Apr. 19, 1922.

POPLINEN

Particular description of goods.—Cotton Textiles in the Piece.
Claims use since Mar. 31, 1922.

Ser. No. 162,539. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. ERLANGER, BLUMGART & CO., INC., New York, N. Y. Filed Apr. 19, 1922.

IRELIN

Particular description of goods.—Cotton Textiles in the Piece.
Claims use since Mar. 31, 1922.

Ser. No. 162,582. (CLASS 20. LINOLEUM AND OILED CLOTH.) RINGWALT WORKS, INC., New Brunswick, N. J. Filed Apr. 19, 1922.

Waltona

Particular description of goods.—Felt-Base Floor Coverings in the Nature of Linoleum.
Claims use since Mar. 30, 1922.

Ser. No. 162,711. (CLASS 37. PAPER AND STATIONERY.) ROBERT WILLIAM SMITH, Salt Lake City, Utah. Filed Apr. 21, 1922.

PAPE-LOPE STATIONERY

The word "Stationery" is disclaimed apart from the mark Paper-Lope" (trade-mark).
Particular description of goods.—Combined Writing Paper and Envelope.
Claims use since Jan. 1, 1922.

Ser. No. 162,880. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) E. & F. KING & COMPANY, INCORPORATED, Boston, Mass. Filed Apr. 25, 1922.



No claim to the words "Bolted" and "Boston, Mass." apart from mark.
Particular description of goods.—China Clay and Plain and Colored Bases for Dressing, Whitening, and Fulling Compounds.
Claims use since about March, 1917.

Ser. No. 162,916. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THOMAS CARTER & SONS, INC., New York, N. Y. Filed Apr. 26, 1922.

The Country Gentleman Handkerchief

The word "Handkerchief" is disclaimed apart from mark.
Particular description of goods.—Handkerchiefs.
Claims use since April 1, 1922.

Ser. No. 162,921. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE DECOATER COMPANY, Chicago, Ill. Filed Apr. 26, 1922.

The Decoater
The New Era Tooth Brush

No claim to the words "The New Era Tooth Brush" apart from the mark.
Particular description of goods.—Toothbrushes.
Claims use since Mar. 24, 1922.

Ser. No. 163,053. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PERLMANN, SCHAL & STERN, New York, N. Y. Filed Apr. 28, 1922.

Aida

Particular description of goods.—Doilies.
Claims use since Apr. 6, 1922.

Ser. No. 163,075. (CLASS 12. CONSTRUCTION MATERIALS.) THE ATLAS PORTLAND CEMENT COMPANY, North Hampton, Pa., and New York, N. Y. Filed Apr. 29, 1922.

ATLAS

Particular description of goods.—Stucco.
Claims use since Apr. 8, 1922.

Ser. No. 163,078. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) F. E. ASHMUN COMPANY, Providence, R. I. Filed Apr. 29, 1922.

SHEIK

Particular description of goods.—Finger Rings.
Claims use since Mar. 17, 1922.

Ser. No. 163,093. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed Apr. 29, 1922.

PURITAN WHITE

The word "White" is disclaimed apart from the mark.
Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since July, 1900.

Ser. No. 163,151. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HUP MFG. CO. INC., New York, N. Y. Filed May 1, 1922.

HUP

Particular description of goods.—Golf-Ball Markers.
Claims use since Apr. 20, 1922.

Ser. No. 163,215. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DASCO IMPORT CO., INC., New York, N. Y. Filed May 2, 1922.

Dasco

Particular description of goods.—Smoking Pipes, Cigar Holders, Cigarette Holders, Pipe Cleaners, Cigar and Cigarette Cases, Tobacco Pouches, and Ash Trays.
Claims use since Mar. 3, 1922.

Ser. No. 163,338. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JITSUTARO KOIKE, doing business as Nippon Dry Goods Co., San Francisco, Calif. Filed May 4, 1922.

Nipponlex

Particular description of goods.—Silk, Cotton, and Fiber Textiles in the Piece and Mixtures Thereof.
Claims use since Mar. 15, 1921.

Ser. No. 163,397. (CLASS 38. PRINTS AND PUBLICATIONS.) HATFIELD ELECTRIC COMPANY, Indianapolis, Ind. Filed May 5, 1922.



Particular description of goods.—Periodical Publications.
Claims use since May 1, 1921.

Ser. No. 163,400. (CLASS 31. FILTERS AND REFRIGERATORS.) JOHNSON-RANDALL CO., Traverse City, Mich. Filed May 5, 1922.

BATTLESHIP

Particular description of goods.—Refrigerators and Ice Boxes.
Claims use since Jan. 1, 1922.

Ser. No. 163,592. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MODERN BEVERAGE COMPANY, Chicago, Ill. Filed May 9, 1922.

Oh! Henry

Particular description of goods.—Nonalcoholic Maltless Beverages.
Claims use since Apr. 12, 1922.

Ser. No. 163,685. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MORRIS FINKELSTEIN, doing business as Victory Malt Company, Brooklyn, N. Y. Filed May 11, 1922.

Victory Brand

The word "Brand" is disclaimed apart from the mark.
Particular description of goods.—Barley-Malt Sirup for Beverage Purposes.
Claims use since July 1, 1920.

Ser. No. 163,686. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MORRIS FINKELSTEIN, doing business as Victory Malt Company, Brooklyn, N. Y. Filed May 11, 1922.

EXELSIOR
BRAND

The word "Brand" is disclaimed apart from the mark.
Particular description of goods.—Hop and Malt Sirup for Beverage Purposes.
Claims use since July 1, 1920.

Ser. No. 163,687. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MORRIS FINKELSTEIN, doing business as Victory Malt Company, Brooklyn, N. Y. Filed May 11, 1922.

National Brand

The word "Brand" is disclaimed apart from the mark.
Particular description of goods.—Barley-Malt Sirup for Beverage Purposes.
Claims use since July 1, 1920.

Ser. No. 163,799. (CLASS 17. TOBACCO PRODUCTS.) R. HASEL CIGAR CO., Richmond Hill, N. Y. Filed May 13, 1922.

La Ha-Sel

Particular description of goods.—Cigars.
Claims use since Sept. 1, 1921.

Ser. No. 163,866. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE FAULTLESS RUBBER COMPANY, Ashland, Ohio. Filed May 15, 1922.

"Wearever"

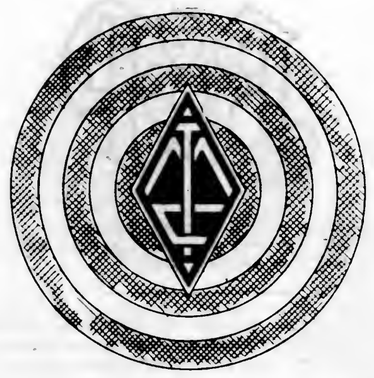
Particular description of goods.—Playing Balls Formed of Rubber and Its Compounds—Namely, Golf Balls.
Claims use since Apr. 22, 1922.

Ser. No. 163,868. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) FOLD-O-LOCK STEERING WHEEL MFG. CORP., Wichita, Kans. Filed May 15, 1922.

FOLD-O-LOCK

Particular description of goods.—Steering Wheels for Motor Vehicles.
Claims use since Jan. 26, 1922.

Ser. No. 163,898. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich. Filed May 15, 1922.



Particular description of goods.—Windshield Wipers of the Squeegee Type.
Claims use since June, 1, 1921.

Ser. No. 163,947. (CLASS 17. TOBACCO PRODUCTS.) SIMON REESE, Sioux City, Iowa. Filed May 16, 1922.

LA CURRENCY

Particular description of goods.—Cigars.
Claims use since about Jan. 21, 1914.

Ser. No. 164,105. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GENERAL PHONOGRAPH CORPORATION, New York, N. Y. Filed May 19, 1922.

PETMECKY

Particular description of goods.—Needles for Talking Machines and Phonograph Needles.
Claims use since on or about 1907.

Ser. No. 164,127. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & CO., New York, N. Y. Filed May 19, 1922.

FAIRY

Particular description of goods.—Souvenir or Favor Containers Sold as a Whole with the Souvenirs or Favors Therein and Known as Jack Horner Pies.
Claims use since May 1, 1922.

Ser. No. 164,220. (CLASS 17. TOBACCO PRODUCTS.) SAMUEL BENADERET, San Francisco, Calif. Filed May 22, 1922.

B&P

The lining on drawing indicates shading only.
Particular description of goods.—Egyptian Cigarettes.
Claims use since February, 1918.

Ser. No. 164,226. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed May 22, 1922.

Tapeston

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Mar. 23, 1922.

Ser. No. 164,238. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DICKINSON & CO., INC., Minneapolis, Minn. Filed May 22, 1922.

LEDIX

Particular description of goods.—Glare Shields, Storm Shields, and Windshields and Wind-Deflecting Wings.
Claims use since about June 1, 1921.

Ser. No. 164,254. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHARLES F. MARTIN, Fairmont, W. Va. Filed May 22, 1922.

Yep, It Gives You Pep
Drink VITOLA
The NEW Vitamine Beverage

The words "Yep, It Gives You Pep," "Drink," and "The New Vitamine Beverage" are disclaimed apart from mark.
Particular description of goods.—Nonalcoholic Maltless Beverage Sold as Soft Drink.
Claims use since Jan. 1, 1922.

Ser. No. 164,283. (CLASS 17. TOBACCO PRODUCTS.) JULIUS WIX, doing business as J. Wix & Sons, London, England. Filed May 22, 1922.



The words "Your Cigarettes Sir," apart from the mark, are disclaimed.
Particular description of goods.—Cigarettes.
Claims use since Oct. 18, 1920.

Ser. No. 164,329. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 23, 1922.

TATSU

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since October, 1908.

Ser. No. 164,330. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 23, 1922.

Waukon

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since November, 1908.

Ser. No. 164,332. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 23, 1922.

ASSET

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since Apr. 27, 1922.

Ser. No. 164,333. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 23, 1922.

UTILITY

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since November, 1907.

Ser. No. 164,335. (CLASS 37. PAPER AND STATIONERY.) MACNIVEN AND CAMERON LIMITED, Edinburgh, Scotland. Filed May 23, 1922.

LASSOLETTRE

Particular description of goods.—Writing Paper, Note Paper, Envelopes, Notebooks, Stationery Cabinets, and Writing Pads.
Claims use since February, 1919.

Ser. No. 164,391. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive words "Extra Strong," "Very Durable," or "The Line of Luster," apart from the mark.
Particular description of goods.—Fishing Lines.
Claims use since Apr. 29, 1916.

Ser. No. 164,392. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim made to exclusive use of words "A Casting Line of Pure Hard Braid Silk," "Strength," or "Durability" apart from mark.
Particular description of goods.—Silk Fishing Lines.
Claims use since May 3, 1916.

Ser. No. 164,393. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim made to exclusive use of words, "Standard Bait Casting Japan Silk," "Strong and Durable," "50 Yds.," "Waterproof," "No. 0000," or "Test 28 Lbs." apart from mark shown.
Particular description of goods.—Silk Fishing Lines.
Claims use since Sept. 1, 1916.

Ser. No. 164,394. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words "King of Hard Braid Silks," or "Waterproof Casting Line," apart from the mark shown.
Particular description of goods.—Silk Fishing Lines.
Claims use since May 3, 1916.

Ser. No. 164,396. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words, "First Quality Japan Silk," "For Lake or Stream," "50 Yds.," "No. 1," or "Test 18 Lbs.," apart from the mark.

Particular description of goods.—Japan-Silk Fishing Lines.

Claims use since May 3, 1916.

Ser. No. 164,397. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words "Pure Japan Silk," "Extra Hard Braid," "25 Yds.," "No. 0," or "Test 12 Lbs."

Particular description of goods.—Japan-Silk Fishing Lines.

Claims use since June 6, 1916.

Ser. No. 164,398. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim made to exclusive use of words "Medium Hard Braid Casting Line," "50 Yds.," "No. A," or "Test 15 Lbs." apart from mark shown.

Particular description of goods.—Fishing Lines.

Claims use since Dec. 6, 1916.

Ser. No. 164,413. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORT DUMMER MILLS, Brattleboro, Vt. Filed May 24, 1922.

DISTAFF

Particular description of goods.—Cotton Piece Goods.

Claims use since Mar. 8, 1922.

Ser. No. 164,414. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORT DUMMER MILLS, Brattleboro, Vt. Filed May 24, 1922.

NOCTURNE

Particular description of goods.—Cotton Piece Goods.

Claims use since Mar. 8, 1922.

Ser. No. 164,419. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.

TULIP

Particular description of goods.—Hair Nets.

Claims use since May 1, 1922.

Ser. No. 164,424. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.

The Iris

Particular description of goods.—Hair Nets.

Claims use since May 1, 1922.

Ser. No. 164,486. (CLASS 37. PAPER AND STATIONERY.) BROWN & BIGELOW, St. Paul, Minn. Filed May 25, 1922.

Junior

Particular description of goods.—Pencils.

Claims use since May 1, 1919.

Ser. No. 164,487. (CLASS 37. PAPER AND STATIONERY.) BROWN & BIGELOW, St. Paul, Minn. Filed May 25, 1922.

Aristocrat

Particular description of goods.—Pencils.

Claims use since May 1, 1921.

Ser. No. 164,646. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed May 29, 1922.

As You Like It

Particular description of goods.—Silk in the Piece.

Claims use since May 19, 1922.

Ser. No. 164,659. (CLASS 37. PAPER AND STATIONERY.) NOESTING PIN TICKET COMPANY, INCORPORATED, Mount Vernon, N. Y. Filed May 29, 1922.

"MILLIONS DAILY"

Particular description of goods.—Paper Clamps, Paper Clips, Thumb Tacks, Pin Tickets, and Ring Clips.

Claims use since Oct. 19, 1921.

Ser. No. 164,688. (CLASS 37. PAPER AND STATIONERY.) THE PAUL M. ADAMS CO., Baltimore, Md. Filed May 31, 1922.

The "HANDY" Line

Particular description of goods.—Writing Paper, Envelopes, Paper Napkins, Paper Blotters, Wax Paper, Loose-leaf Fillers, Typewriting Paper, Crepe-Paper Table Cloths, Legal-Cap Paper, and Toilet Paper.

Claims use since on or about Oct. 1, 1915.

Ser. No. 164,709. (CLASS 37. PAPER AND STATIONERY.) THE MARVELLUM COMPANY, Holyoke, Mass. Filed May 31, 1922.



Particular description of goods.—Cover Paper.

Claims use since Mar. 8, 1922.

Ser. No. 164,710. (CLASS 37. PAPER AND STATIONERY.) THE MARVELLUM COMPANY, Holyoke, Mass. Filed May 31, 1922.

MARVELLUM

Particular description of goods.—Cover Paper.

Claims use since Mar. 8, 1922.

Ser. No. 164,736. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS WALTHER MANUFACTURING COMPANY, Philadelphia, Pa. Filed May 31, 1922.

Bordr Lana

Particular description of goods.—Worsted Piece Goods, Woolen Piece Goods, Worsted and Cotton Piece Goods, Woolen and Cotton Piece Goods, and Worsted and Silk Piece Goods.

Claims use since on or about May 12, 1922.

Ser. No. 164,739. (CLASS 37. PAPER AND STATIONERY.) WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed May 31, 1922.

Fabreen

Particular description of goods.—Toilet Paper.
Claims use since Feb. 21, 1922.

Ser. No. 164,740. (CLASS 37. PAPER AND STATIONERY.) WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed May 31, 1922.

FEATHERDOWN

Particular description of goods.—Toilet Paper.
Claims use since Feb. 21, 1922.

Ser. No. 164,741. (CLASS 37. PAPER AND STATIONERY.) WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed May 31, 1922.

Mileen

Particular description of goods.—Toilet Paper.
Claims use since Feb. 21, 1922.

Ser. No. 164,771. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PLAZA MUSIC CO., New York, N. Y. Filed June 1, 1922.

JEWEL

Trade-mark, "Jewel."
Particular description of goods.—Player-Piano Rolls.
Claims use since May 3, 1922.

Ser. No. 164,845. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE VEGA COMPANY, Boston, Mass. Filed June 2, 1922.

VEGA

Particular description of goods.—String, Wind, and Percussion Musical Instruments, Especially Band and Orchestral Instruments, Banjos, Guitars, Harps, Mandolins, Violins, Violoncellos, Zithers, Lutes, Horns, Bugles, Basses, Clarinets, Cornets, Flutes, Fifes, Oboes, Mellophones, Piccolos, Saxophones, Trombones, Trumpets, Tambourines, Bells, Cymbals, and Drums.
Claims use since 1889.

Ser. No. 164,878. (CLASS 17. TOBACCO PRODUCTS.) FALK TOBACCO COMPANY, INCORPORATED, New York, N. Y. Filed June 3, 1922.

Radia

Trade-mark, "Radia."
Particular description of goods.—Cigarettes.
Claims use since on or about Sept. 27, 1912.

Ser. No. 164,879. (CLASS 17. TOBACCO PRODUCTS.) FALK TOBACCO COMPANY, INCORPORATED, New York, N. Y. Filed June 3, 1922.

Radio

Trade-mark, "Radio."
Particular description of goods.—Cigarettes.
Claims use since on or about June 25, 1921.

Ser. No. 164,898. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRAZAR & COMPANY, New York, N. Y. Filed June 3, 1922.

ZARCO

Particular description of goods.—Human-Hair Nets.
Claims use since Mar. 10, 1922.

Ser. No. 164,934. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed June 3, 1922.

KLO-KA

Particular description of goods.—Silk Piece Goods.
Claims use since December, 1921.

Ser. No. 164,968. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SCHNEIDER, BATTINUS & SIMON, Chicago, Ill. Filed June 3, 1922.

LADY WEAR

Particular description of goods.—Hair Nets.
Claims use since July 1, 1921.

Ser. No. 165,005. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed June 5, 1922.

PARICHIFFON

Particular description of goods.—Piece Goods of Silk, Cotton, Wool and Hairs.
Claims use since Mar. 23, 1922.

Ser. No. 165,006. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed June 5, 1922.

PARIVOILE

Particular description of goods.—Piece Goods of Silk, Cotton, Wool, and Hairs.
Claims use since Mar. 23, 1922.

Ser. No. 165,007. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed June 5, 1922.

PARICRÊPE

Particular description of goods.—Piece Goods of Silk, Cotton, Wool, and Hairs.
Claims use since Mar. 23, 1922.

Ser. No. 165,019. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed June 5, 1922.

LUSTROSA

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since Jan. 1, 1922.

Ser. No. 165,065. (CLASS 45. BEVERAGES, NONALCOHOLIC.) DUFFY-MOTT COMPANY, INC., New York, N. Y. Filed June 6, 1922. Under ten-year proviso.

MOTT

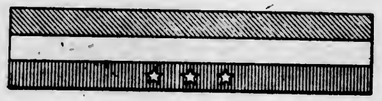
Trade-mark "Mott."
Particular description of goods.—Ciders and Fruit Juices.
Claims use since about 1850.

Ser. No. 165,248. (CLASS 17. TOBACCO PRODUCTS.) JULIUS WIX, doing business as J. Wix and Sons, London, England. Filed June 9, 1922.

KENSITAS

Trade-mark "Kensitas."
Particular description of goods.—Smoking and Chewing Tobacco, Cigarettes, Cigars, and Snuff.
Claims use since Oct. 28, 1920.

Ser. No. 165,275. (CLASS 17. TOBACCO PRODUCTS.) DE NOBILI CIGAR CO., INC., Long Island City and New York, N. Y. Filed June 10, 1922.



The lines on drawing are for green and red.
Particular description of goods.—Cigars.
Claims use since Jan. 3, 1922.

Ser. No. 165,413. (CLASS 45. BEVERAGES, NONALCOHOLIC.) PITTSFIELD COCA COLA BOTTLING CORPORATION, also doing business as Mohawk Bottling Company, Pittsfield, Mass. Filed June 12, 1922.

MOHAWK

Particular description of goods.—A Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverage Consisting of Sterilized Water, Sugar, Jamaica Ginger, Caramel, and Fruit Flavors Sold as a Soft Drink and Sirups Used in the Preparation of Same.

Claims use since 1921.

Ser. No. 165,467. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LUCIEN F. TURCOTTE, doing business as Coca-Cola Bottling Co., Lowell, Mass. Filed June 13, 1922.

GLORIA

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup for Making the Same.

Claims use since Mar. 1, 1921.

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TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 25, 1922.

156,974. BOOTS, SHOES, AND SLIPPERS MADE OF LEATHER, RUBBER, FABRIC, AND LEATHER AND RUBBER, LEATHER AND FABRIC, AND RUBBER AND FABRIC. ABBOTT SHOE CO., North Reading, Mass.
Filed December 12, 1921. Serial No. 156,730. PUBLISHED APRIL 18, 1922.

156,975. A MIXTURE FOR MAKING PIES, PUDDINGS, CUSTARDS, AND CAKE FILLING. ADAM INT HOUT, Chicago, Ill.
Filed December 15, 1920. Serial No. 141,112. PUBLISHED MARCH 14, 1922.

156,976. MEN'S AND YOUNG MEN'S COATS, WAISTCOATS, TROUSERS, AND OVERCOATS. DAVID ADLER & SONS CO., Milwaukee, Wis.
Filed August 2, 1920. Serial No. 135,682. PUBLISHED APRIL 11, 1922.

156,977. COTTON, LINEN, AND HALF-SILK PIECE GOODS. AKTIENGESELLSCHAFT CILANDER, Herisau, Switzerland.
Filed November 18, 1921. Serial No. 155,540. PUBLISHED APRIL 25, 1922.

156,978. COTTON, LINEN, AND HALF-SILK PIECE GOODS. AKTIENGESELLSCHAFT CILANDER, Herisau, Switzerland.
Filed November 18, 1921. Serial No. 155,541. PUBLISHED APRIL 25, 1922.

156,979. COTTON, LINEN, AND HALF-SILK PIECE GOODS. AKTIENGESELLSCHAFT CILANDER, Herisau, Switzerland.
Filed November 18, 1921. Serial No. 155,542. PUBLISHED APRIL 25, 1922.

156,980. COTTON, LINEN, AND HALF-SILK PIECE GOODS. AKTIENGESELLSCHAFT CILANDER, Herisau, Switzerland.
Filed November 18, 1921. Serial No. 155,543. PUBLISHED APRIL 25, 1922.

156,981. WATERPROOF CLOTHING—NAMELY, RAINCOATS, CAPES, JACKETS, OVERALLS, HATS, CAPS, AND PONCHOS. ALLIGATOR OIL CLOTHING COMPANY, St. Louis, Mo.
Filed August 15, 1921. Serial No. 151,778. PUBLISHED APRIL 25, 1922.

156,982. MAYONNAISE. BENJAMIN ALPERIN, Red Bank, N. J.
Filed July 29, 1921. Serial No. 151,073. PUBLISHED FEBRUARY 14, 1922.

156,983. MEN'S AND BOYS' CAPS AND HATS. AMBASSADOR CAP CO., New York, N. Y.
Filed April 30, 1921. Serial No. 147,001. PUBLISHED APRIL 11, 1922.

156,984. DUSTLESS CRAYONS. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed November 29, 1921. Serial No. 156,044. PUBLISHED APRIL 25, 1922.

156,985. NAVAL AND ARMY UNIFORMS AND HATS; MEN'S SUITS, HATS, AND DUCK PANTS, AND RAINCOATS FOR MEN, WOMEN, AND CHILDREN. AMERICAN NAVAL UNIFORM CO., Hyde Park, Mass.
Filed September 8, 1921. Serial No. 152,692. PUBLISHED APRIL 11, 1922.

156,986. RAZORS, SAFETY RAZORS, AND SAFETY-RAZOR BLADES. AMERICAN SAFETY RAZOR CORPORATION, New York and Brooklyn, N. Y.
Filed December 16, 1921. Serial No. 156,815. PUBLISHED APRIL 25, 1922.

156,987. SPOOL COTTON, SEWING COTTON, THREAD, AND COTTON YARN. THE AMERICAN THREAD COMPANY, Jersey City, N. J.
Filed July 15, 1921. Serial No. 150,392. PUBLISHED JANUARY 31, 1922.

156,988. ELECTRIC-CURRENT DETECTOR. THE AM-O-METER COMPANY INC., Smithville, Tex.
Filed June 25, 1921. Serial No. 149,622. PUBLISHED APRIL 25, 1922.

156,989. SHOES MADE OF LEATHER, FABRIC, OR RUBBER FOR WOMEN. D. ARMSTRONG & CO., INC., Rochester, N. Y.
Filed November 4, 1921. Serial No. 155,006. PUBLISHED APRIL 4, 1922.

156,990. PIPE VISES AND STOCKS AND DIES FOR PIPE THREADING. THE ARMSTRONG MANUFACTURING CO., Bridgeport, Conn.
Filed August 23, 1921. Serial No. 152,059. PUBLISHED APRIL 25, 1922.

156,991. TIES AND SCARFS. LOUIS AUERBACH, New York, N. Y.
Filed August 31, 1921. Serial No. 152,407. PUBLISHED APRIL 18, 1922.

156,992. TIES AND SCARFS. LOUIS AUERBACH, New York, N. Y.
Filed August 31, 1921. Serial No. 152,408. PUBLISHED APRIL 18, 1922.

156,993. AUTOMOBILE TIRES AND TUBES OF RUBBER AND A COMBINATION OF FABRIC AND RUBBER. AUSTIN, NICHOLS & CO. INC., Richmond, Va.
Filed October 8, 1921. Serial No. 153,865. PUBLISHED DECEMBER 27, 1921.

156,994. TEN POUND CAKES OF SWEET-CHOCOLATE COATINGS. WALTER BAKER & COMPANY, LTD., Boston, Mass.
Filed June 26, 1920. Serial No. 134,232. PUBLISHED JUNE 14, 1921.

156,995. CANVAS TENTS AND CANVAS COVERS USED FOR COVERING MERCHANDISE, TRUCKS, AND HORSES AND SIMILAR PURPOSES. BARNETT CANVAS GOODS & BAG CO. INC., Philadelphia, Pa.
Filed October 3, 1921. Serial No. 153,640. PUBLISHED JANUARY 31, 1922.

156,996. VENDING MACHINES. THE BARR COMPANY, Chillicothe, Ohio.
Filed September 22, 1921. Serial No. 153,198. PUBLISHED APRIL 25, 1922.

156,997. VAULT LOCKERS FOR THE STORAGE OF VALUABLES, VAULT CHESTS, SAFETY-DEPOSIT BOXES, SAFES, AND COIN LOCKERS. THE BARSHAL COMPANY, Cleveland, Ohio.
Filed March 7, 1921. Serial No. 144,377. PUBLISHED APRIL 25, 1922.

156,998. MOCCASINS. G. H. BASS & COMPANY, Wilton, Me.
Filed March 28, 1921. Serial No. 145,308. PUBLISHED AUGUST 23, 1921.

156,999. OLIVE OIL. BAY BEE OIL CO., New York, N. Y. Filed November 26, 1920. Serial No. 140,160. PUBLISHED APRIL 4, 1922.

157,000. BLANKETS OF DOUBLE THICKNESS. BEACON MANUFACTURING COMPANY, Providence, R. I. Filed March 1, 1921. Serial No. 144,173. PUBLISHED APRIL 25, 1922.

157,001. DOLLS. GEO. F. BERKANDER, Providence, R. I. Filed January 6, 1921. Serial No. 141,894. PUBLISHED AUGUST 30, 1921.

157,002. HOSIERY. REUBEN BERMAN, New York, N. Y. Filed September 3, 1921. Serial No. 152,533. PUBLISHED MARCH 28, 1922.

157,003. SHEET STEEL. BETHLEHEM STEEL COMPANY, Bethlehem, Pa. Filed May 25, 1921. Serial No. 148,195. PUBLISHED OCTOBER 25, 1921.

157,004. WOMEN'S AND CHILDREN'S UNDERWEAR, MADE OF TEXTILE FABRICS, CHILDREN'S DRESSES, AND WOMEN'S SHIRT WAISTS OR BLOUSES. BIRKENFELD, STRAUSS & CO., New York, N. Y. Filed May 13, 1921. Serial No. 147,652. PUBLISHED MARCH 28, 1922.

157,005. KNIT UNDERWEAR OF WOOL, COTTON, SILK, AND MIXTURES THEREOF FOR WOMEN AND CHILDREN. BLUE STAR KNITTING CO., Milwaukee, Wis. Filed August 27, 1921. Serial No. 152,231. PUBLISHED APRIL 18, 1922.

157,006. HATS FOR MEN. BONAR-PHELPS COMPANY, New York, N. Y. Filed July 26, 1921. Serial No. 150,952. PUBLISHED APRIL 18, 1922.

157,007. HATS FOR MEN. BONAR-PHELPS COMPANY, New York, N. Y. Filed July 26, 1921. Serial No. 150,953. PUBLISHED APRIL 18, 1922.

157,008. HATS FOR MEN. BONAR PHELPS COMPANY, New York, N. Y. Filed July 26, 1921. Serial No. 150,954. PUBLISHED APRIL 18, 1922.

157,009. HATS FOR MEN. BONAR-PHELPS COMPANY, New York, N. Y. Filed July 26, 1921. Serial No. 150,956. PUBLISHED APRIL 18, 1922.

157,010. CUT GLASS. GEORGE L. BORDEN, Trenton, N. J. Filed November 23, 1921. Serial No. 155,801. PUBLISHED JANUARY 31, 1922.

157,011. ARTIFICIAL-SILK THREADS. THE BRAINERD & ARMSTRONG COMPANY, New London, Conn. Filed February 16, 1921. Serial No. 143,634. PUBLISHED FEBRUARY 28, 1922.

157,012. SHOES FOR MEN, WOMEN, AND CHILDREN, MADE OF LEATHER AND OF FABRIC AND OF A COMBINATION THEREOF. BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed August 29, 1921. Serial No. 152,310. PUBLISHED APRIL 4, 1922.

157,013. MEN'S SHOES MADE OF LEATHER. BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed August 29, 1921. Serial No. 152,311. PUBLISHED APRIL 4, 1922.

157,014. SHOES MADE OF LEATHER AND LEATHER AND CLOTH. BROWN SHOE COMPANY, St. Louis, Mo. Filed January 13, 1922. Serial No. 157,880. PUBLISHED APRIL 18, 1922.

157,015. GARMENT TO BE WORN BOTH AS A SLEEPING ROBE AND LOUNGING ROBE. BROWNSTEIN-LOUIS CO., Los Angeles, Calif. Filed September 3, 1921. Serial No. 1[illegible],534. PUBLISHED MARCH 28, 1922.

157,016. BEARINGS AND BUSHINGS. THE BUCKEYE BRASS AND MANUFACTURING COMPANY, Cleveland, Ohio. Filed December 22, 1921. Serial No. 157,018. PUBLISHED APRIL 25, 1922.

157,017. CHOCOLATE-COVERED CANDIES. BUHR AND SMITH, Cincinnati, Ohio. Filed December 12, 1921. Serial No. 156,564. PUBLISHED APRIL 18, 1922.

157,018. HOSIERY. BURSON KNITTING COMPANY, Rockford, Ill. Filed March 5, 1921. Serial No. 144,311. PUBLISHED MARCH 28, 1922.

157,019. CONDENSED AND EVAPORATED MILK. THE BURT OLNEY CANNING COMPANY, Oneida, N. Y., assignors to New York Canners Inc., Rochester, N. Y., a Corporation of New York. Filed December 9, 1918. Serial No. 114,553. PUBLISHED APRIL 4, 1922.

157,020. SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS THEREOF. FERGUS A. BUTLER, New York, N. Y. Filed December 21, 1921. Serial No. 156,982. PUBLISHED APRIL 11, 1922.

157,021. CERTAIN ARTICLES OF CLOTHING. J. P. CAREY & CO., INC., New York, N. Y. Filed December 22, 1920. Serial No. 141,413. PUBLISHED APRIL 25, 1922.

157,022. LADIES' KIMONOS, HOUSE DRESSES, HOUSE APRONS, BUNGALOW APRONS; MEN'S, WOMEN'S, AND CHILDREN'S BATH ROBES. CARO & COMPANY INC., New York, N. Y. Filed August 26, 1921. Serial No. 152,201. PUBLISHED APRIL 25, 1922.

157,023. TOOL STEELS IN BARS, BILLETS, AND SHAPES. THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920. Serial No. 134,570. PUBLISHED OCTOBER 25, 1921.

157,024. KANSAS-HARD-WHEAT CLEAR FLOUR. EDGAR O. CHALLENGER, New York, N. Y. Filed May 9, 1919. Serial No. 118,295. PUBLISHED JUNE 14, 1921.

157,025. UNION SUIT, THE UPPER PART OF WHICH IS MADE OF "POROSKNIT" KNITTED FABRIC AND THE LOWER PART OF WOVEN FABRIC. CHALMERS KNITTING COMPANY, Amsterdam, N. Y. Filed August 18, 1921. Serial No. 151,908. PUBLISHED APRIL 25, 1922.

157,026. PYROPHORIC IGNITERS. CHASTERN, INC., New York, N. Y. Filed January 25, 1921. Serial No. 142,748. PUBLISHED DECEMBER 27, 1921.

157,027. METAL-WORKING SMALL TOOLS—NAMELY, SOCKETS, DRILL HOLDERS, DRILL CHUCKS, ARBORS, MANDRELS, TAPS, MILLS, MILLING CUTTERS, COUNTERSINKS, AND COUNTERBORES. THE CLEVELAND TWIST DRILL COMPANY, Cleveland, Ohio. Filed December 13, 1921. Serial No. 156,619. PUBLISHED APRIL 25, 1922.

157,028. TENTS, AWNINGS, PAULINS, TARPAULINS, AND DETACHED WATERPROOF WAGON COVERS. CLIFTON MFG. COMPANY, Waco, Tex. Filed June 6, 1921. Serial No. 148,717. PUBLISHED February 28, 1922.

157,029. ORDINARY LEAD PENCILS AND MAGAZINE LEAD PENCILS. ALOYSIUS J. COLEMAN, New York, N. Y. Filed February 17, 1921. Serial No. 143,682. PUBLISHED APRIL 25, 1922.

157,030. LEATHER BOOTS AND SHOES. COMMONWEALTH SHOE AND LEATHER COMPANY, Boston, Mass. Filed September 22, 1921. Serial No. 153,202. PUBLISHED APRIL 4, 1922.

157,031. COATS, VESTS, TROUSERS, AND OVERCOATS. COOMBES & LEVISON, New York, N. Y. Filed February 19, 1921. Serial No. 143,805. PUBLISHED MARCH 28, 1922.

157,032. BRAKE LININGS. ALBERT J. CONARD, Kansas City, Mo. Filed December 29, 1921. Serial No. 157,256. PUBLISHED APRIL 25, 1922.

157,033. COFFEE. G. G. CORNWELL & SON, INC., Washington, D. C. Filed October 22, 1920. Serial No. 138,671. PUBLISHED APRIL 4, 1922.

157,034. UNDERWEAR OF ALL KINDS — NAMELY, THOSE MADE OF SILK, COTTON, WOOL, FOR MEN, WOMEN, AND CHILDREN. THE COTTON STATES HOSIERY MILLS, Chattanooga, Tenn. Filed October 31, 1919. Serial No. 124,389. PUBLISHED APRIL 25, 1922.

157,035. MEN'S AND BOYS' SHOES OF LEATHER OR OF LEATHER AND FABRIC. CRADDOCK-TERRY COMPANY, Lynchburg, Va. Filed September 3, 1921. Serial No. 152,546. PUBLISHED APRIL 4, 1922.

157,036. BED SHEETS, PILLOWCASES, AND BOLSTER CASES, KNOWN AS BED SETS. ROYLE CRAVEN COMPANY, Philadelphia, Pa. Filed December 23, 1921. Serial No. 157,077. PUBLISHED APRIL 25, 1922.

157,037. CERTAIN ARTICLES OF CLOTHING. A. CUNNINGHAM LIMITED, Stewarton, Scotland. Filed July 20, 1921. Serial No. 150,656. PUBLISHED APRIL 4, 1922.

157,038. AIRPLANES. CURTISS AEROPLANE AND MOTOR CORPORATION, Buffalo and Garden City, N. Y. Filed October 28, 1920. Serial No. 138,808. PUBLISHED DECEMBER 27, 1921.

157,039. TROUSERS AND PANTS. DADD & LADD TROUSER COMPANY, Davenport, Iowa. Filed August 20, 1921. Serial No. 151,982. PUBLISHED APRIL 11, 1922.

157,040. TURNING LATHES. DALTON MANUFACTURING CORPORATION, Sound Beach, Conn. Filed November 10, 1921. Serial No. 155,258. PUBLISHED APRIL 25, 1922.

157,041. PHOTOGRAPHIC PAPER. DEFENDER PHOTO SUPPLY COMPANY, INC., Rochester, N. Y. Filed October 12, 1920. Serial No. 138,213. PUBLISHED FEBRUARY 8, 1921.

157,042. CANDY. THE DE KLYN CANDY CO., Cleveland, Ohio. Filed April 12, 1920. Serial No. 131,018. PUBLISHED FEBRUARY 21, 1922.

157,043. CERTAIN NAMED BOTTLE STOPPERS AND BOTTLE LIDS. THOMAS DE LA RUE AND COMPANY, LIMITED, London, England. Filed December 10, 1920. Serial No. 140,880. PUBLISHED JANUARY 31, 1922.

157,044. STEAM AND INTERNAL-COMBUSTION ENGINES, AIR COMPRESSORS, AND AIR PRESSING AND RECEIVING OUTFITS. VERGNE MACHINE COMPANY, New York, N. Y. Filed November 5, 1920. Serial No. 139,196. PUBLISHED APRIL 25, 1922.

157,045. MEN'S HATS. DENZER, GOODHART & CO., York, N. Y. Filed January 6, 1921. Serial No. 141,[illegible]. PUBLISHED APRIL 18, 1922.

157,046. CERTAIN ARTICLES OF CLOTHING. WENT MILLS LIMITED, Matlock Borough, [illegible]. Filed October 5, 1920. Serial No. 137,[illegible]. PUBLISHED APRIL 11, 1922.

157,047. FERROUS AND NONFERROUS METAL CASTINGS AND METAL FORGINGS, BUT NOT INCLUDING TEXTILE MACHINERY OR PARTS THEREOF. DUNBAR DROP FORGE COMPANY, Chicago, Ill. Filed May 16, 1919. Serial No. 118,540. PUBLISHED MAY 10, 1921.

157,048. MEN'S AND BOYS' OUTER WEARING NEGLIGEE AND WORK SHIRTS. SIGMUND EISNER COMPANY, Red Bank, N. J. Filed January 17, 1921. Serial No. 142,335. PUBLISHED MARCH 28, 1922.

157,049. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND PURIFIED DRINKING WATER. THE ELECTROZONE WATER COMPANY, Oklahoma, Okla. Filed January 24, 1921. Serial No. 142,701. PUBLISHED AUGUST 30, 1921.

157,050. BURNERS FOR LIGHTING, HEATING, AND COOKING PURPOSES. ELEKTRIZITÄTSWERKE [illegible], Gampel, Switzerland. Filed March 16, 1921. Serial No. 144,804. PUBLISHED JANUARY 31, 1922.

157,051. A GARMENT CONSISTING OF APRONS FOR NURSES, HOUSE[illegible] MALES GENERALLY. THE [illegible] COMPANY, Cincinnati, Ohio. Filed January 26, 1921. Serial [illegible]. PUBLISHED APRIL 25, 1922.

157,052. RUBBER SOLES [illegible] COMPANY, Trustee, N. J. Filed December 2, 1921. [illegible]. PUBLISHED APRIL 11, 1922.

157,053. STEEL COAL [illegible] OF COAL AND [illegible] RANGES. [illegible] and St. Louis, [illegible]. Filed November [illegible]. PUBLISHED [illegible].

157,054. STEEL [illegible] COAL AND [illegible] Mo. Filed [illegible]. PUBLISHED [illegible].

157,055. [illegible]

156,989. OLIVE OIL. BAY BEE OIL CO., New York, N. Y.
Filed November 26, 1920. Serial No. 140,160. PUBLISHED APRIL 4, 1922.

157,000. BLANKETS OF DOUBLE THICKNESS. BEACON MANUFACTURING COMPANY, Providence, R. I.
Filed March 1, 1921. Serial No. 144,173. PUBLISHED APRIL 25, 1922.

157,001. DOLLS. GEO. F. BERKANDER, Providence, R. I.
Filed January 6, 1921. Serial No. 141,894. PUBLISHED AUGUST 30, 1921.

157,002. HOSIERY. REUBEN BERMAN, New York, N. Y.
Filed September 3, 1921. Serial No. 152,533. PUBLISHED MARCH 28, 1922.

157,003. SHEET STEEL. BETHLEHEM STEEL COMPANY, Bethlehem, Pa.
Filed May 25, 1921. Serial No. 148,195. PUBLISHED OCTOBER 25, 1921.

157,004. WOMEN'S AND CHILDREN'S UNDERWEAR, MADE OF TEXTILE FABRICS, CHILDREN'S DRESSES, AND WOMEN'S SHIRT WAISTS OR BLOUSES. BIRKENFELD, STRAUSS & CO., New York, N. Y.
Filed May 13, 1921. Serial No. 147,652. PUBLISHED MARCH 28, 1922.

157,005. KNIT UNDERWEAR OF WOOL, COTTON, SILK, AND MIXTURES THEREOF FOR WOMEN AND CHILDREN. BLUE STAR KNITTING CO., Milwaukee, Wis.
Filed August 27, 1921. Serial No. 152,231. PUBLISHED APRIL 18, 1922.

157,006. HATS FOR MEN. BONAR-PHELPS COMPANY, New York, N. Y.
Filed July 26, 1921. Serial No. 150,952. PUBLISHED APRIL 18, 1922.

157,007. HATS FOR MEN. BONAR-PHELPS COMPANY, New York, N. Y.
Filed July 26, 1921. Serial No. 150,953. PUBLISHED APRIL 18, 1922.

157,008. HATS FOR MEN. BONAR PHELPS COMPANY, New York, N. Y.
Filed July 26, 1921. Serial No. 150,954. PUBLISHED APRIL 18, 1922.

157,009. HATS FOR MEN. BONAR-PHELPS COMPANY, New York, N. Y.
Filed July 26, 1921. Serial No. 150,956. PUBLISHED APRIL 18, 1922.

157,010. CUT GLASS. GEORGE L. BORDEN, Trenton, N. J.
Filed November 23, 1921. Serial No. 155,801. PUBLISHED JANUARY 31, 1922.

157,011. ARTIFICIAL-SILK THREADS. THE BRAINERD & ARMSTRONG COMPANY, New London, Conn.
Filed February 16, 1921. Serial No. 143,634. PUBLISHED FEBRUARY 28, 1922.

157,012. SHOES FOR MEN, WOMEN, AND CHILDREN, MADE OF LEATHER AND OF FABRIC AND OF A COMBINATION THEREOF. BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed August 29, 1921. Serial No. 152,310. PUBLISHED APRIL 4, 1922.

157,013. MEN'S SHOES MADE OF LEATHER. BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed August 29, 1921. Serial No. 152,311. PUBLISHED APRIL 4, 1922.

157,014. SHOES MADE OF LEATHER AND LEATHER AND CLOTH. BROWN SHOE COMPANY, St. Louis, Mo.
Filed January 13, 1922. Serial No. 157,880. PUBLISHED APRIL 18, 1922.

157,015. GARMENT TO BE WORN BOTH AS A SLEEPING ROBE AND LOUNGING ROBE. BROWNSTEIN-LOUIS CO., Los Angeles, Calif.
Filed September 3, 1921. Serial No. 152,534. PUBLISHED MARCH 28, 1922.

157,016. BEARINGS AND BUSHINGS. THE BUCKEYE BRASS AND MANUFACTURING COMPANY, Cleveland, Ohio.
Filed December 22, 1921. Serial No. 157,018. PUBLISHED APRIL 25, 1922.

157,017. CHOCOLATE-COVERED CANDIES. BUHR AND SMITH, Cincinnati, Ohio.
Filed December 12, 1921. Serial No. 156,564. PUBLISHED APRIL 18, 1922.

157,018. HOSIERY. BURSON KNITTING COMPANY, Rockford, Ill.
Filed March 5, 1921. Serial No. 144,311. PUBLISHED MARCH 28, 1922.

157,019. CONDENSED AND EVAPORATED MILK. THE BURT OLNEY CANNING COMPANY, Oneida, N. Y., assignors to New York Canners Inc., Rochester, N. Y., a Corporation of New York.
Filed December 9, 1918. Serial No. 114,553. PUBLISHED APRIL 4, 1922.

157,020. SHOES OF LEATHER, RUBBER, FABRIC AND COMBINATIONS THEREOF. FERGUS A. BUTLER, New York, N. Y.
Filed December 21, 1921. Serial No. 156,982. PUBLISHED APRIL 11, 1922.

157,021. CERTAIN ARTICLES OF CLOTHING. J. P. CAREY & CO., INC., New York, N. Y.
Filed December 22, 1920. Serial No. 141,413. PUBLISHED APRIL 25, 1922.

157,022. LADIES' KIMONOS, HOUSE DRESSES, HOUSE APRONS, BUNGALOW APRONS; MEN'S, WOMEN'S, AND CHILDREN'S BATH ROBES. CARO & COMPANY INC., New York, N. Y.
Filed August 26, 1921. Serial No. 152,201. PUBLISHED APRIL 25, 1922.

157,023. TOOL STEELS IN BARS, BILLETS, AND SHAPES. THE CARPENTER STEEL COMPANY, Reading, Pa.
Filed July 6, 1920. Serial No. 134,570. PUBLISHED OCTOBER 25, 1921.

157,024. KANSAS-HARD-WHEAT CLEAR FLOUR. EGGAR O. CHALLENGER, New York, N. Y.
Filed May 9, 1919. Serial No. 118,295. PUBLISHED JUNE 14, 1921.

157,025. UNION SUIT, THE UPPER PART OF WHICH IS MADE OF "POROSKNIT" KNITTED FABRIC AND THE LOWER PART OF WOVEN FABRIC. CHALMERS KNITTING COMPANY, Amsterdam, N. Y.
Filed August 18, 1921. Serial No. 151,908. PUBLISHED APRIL 25, 1922.

157,026. PYROPHORIC IGNITERS. CHASTERN, INC., New York, N. Y.
Filed January 25, 1921. Serial No. 142,748. PUBLISHED DECEMBER 27, 1921.

157,027. METAL-WORKING SMALL TOOLS—NAMELY, SOCKETS, DRILL HOLDERS, DRILL CHUCKS, ARBORS, MANDRELS, TAPS, MILLS, MILLING CUTTERS, COUNTERSINKS, AND COUNTERBORES. THE CLEVELAND TWIST DRILL COMPANY, Cleveland, Ohio.
Filed December 13, 1921. Serial No. 156,619. PUBLISHED APRIL 25, 1922.

157,028. TENTS, AWNINGS, PAULINS, TARPAULINS, AND DETACHED WATERPROOF WAGON COVERS. CLIFTON MFG. COMPANY, Waco, Tex.
Filed June 6, 1921. Serial No. 148,717. PUBLISHED February 28, 1922.

157,029. ORDINARY LEAD PENCILS AND MAGAZINE LEAD PENCILS. ALOYSIUS J. COLEMAN, New York, N. Y.
Filed February 17, 1921. Serial No. 143,682. PUBLISHED APRIL 25, 1922.

157,030. LEATHER BOOTS AND SHOES. COMMONWEALTH SHOE AND LEATHER COMPANY, Boston, Mass.
Filed September 22, 1921. Serial No. 153,202. PUBLISHED APRIL 4, 1922.

157,031. COATS, VESTS, TROUSERS, AND OVERCOATS. COOMBES & LEVISON, New York, N. Y.
Filed February 19, 1921. Serial No. 143,805. PUBLISHED MARCH 28, 1922.

157,032. BRAKE LININGS. ALBERT J. CONARD, Kansas City, Mo.
Filed December 29, 1921. Serial No. 157,256. PUBLISHED APRIL 25, 1922.

157,033. COFFEE. G. G. CORNWELL & SON, INC., Washington, D. C.
Filed October 22, 1920. Serial No. 138,671. PUBLISHED APRIL 4, 1922.

157,034. UNDERWEAR OF ALL KINDS — NAMELY, THOSE MADE OF SILK, COTTON, WOOL, FOR MEN, WOMEN, AND CHILDREN. THE COTTON STATES HOSIERY MILLS, Chattanooga, Tenn.
Filed October 31, 1919. Serial No. 124,389. PUBLISHED APRIL 25, 1922.

157,035. MEN'S AND BOYS' SHOES OF LEATHER OR OF LEATHER AND FABRIC. CRADDOCK-TERRY COMPANY, Lynchburg, Va.
Filed September 3, 1921. Serial No. 152,546. PUBLISHED APRIL 4, 1922.

157,036. BED SHEETS, PILLOWCASES, AND BOLSTER CASES, KNOWN AS BED SETS. ROYLE CRAVEN COMPANY, Philadelphia, Pa.
Filed December 23, 1921. Serial No. 157,077. PUBLISHED APRIL 25, 1922.

157,037. CERTAIN ARTICLES OF CLOTHING. A. CUNNINGHAM LIMITED, Stewarton, Scotland.
Filed July 20, 1921. Serial No. 150,656. PUBLISHED APRIL 4, 1922.

157,038. AIRPLANES. CURTISS AEROPLANE AND MOTOR CORPORATION, Buffalo and Garden City, N. Y.
Filed October 28, 1920. Serial No. 138,898. PUBLISHED DECEMBER 27, 1921.

157,039. TROUSERS AND PANTS. DADD & LADD TROUSER COMPANY, Davenport, Iowa.
Filed August 20, 1921. Serial No. 151,982. PUBLISHED APRIL 11, 1922.

157,040. TURNING LATHES. DALTON MANUFACTURING CORPORATION, Sound Beach, Conn.
Filed November 10, 1921. Serial No. 155,258. PUBLISHED APRIL 25, 1922.

157,041. PHOTOGRAPHIC PAPER. DEFENDER PHOTO SUPPLY COMPANY, INC., Rochester, N. Y.
Filed October 12, 1920. Serial No. 138,213. PUBLISHED FEBRUARY 8, 1921.

157,042. CANDY. THE DE KLYN CANDY CO., Cleveland, Ohio.
Filed April 12, 1920. Serial No. 131,018. PUBLISHED FEBRUARY 21, 1922.

157,043. CERTAIN NAMED BOTTLE STOPPERS AND BOTTLE LIDS. THOMAS DE LA RUE AND COMPANY LIMITED, London, England.
Filed December 10, 1920. Serial No. 140,880. PUBLISHED JANUARY 31, 1922.

157,044. STEAM AND INTERNAL-COMBUSTION ENGINES, AIR COMPRESSORS, AND AIR COMPRESSING AND RECEIVING OUTFITS. DE LA VERGNE MACHINE COMPANY, New York, N. Y.
Filed November 5, 1920. Serial No. 139,198. PUBLISHED APRIL 25, 1922.

157,045. MEN'S HATS. DENZER, GOODHART & CO., New York, N. Y.
Filed January 6, 1921. Serial No. 141,898. PUBLISHED APRIL 18, 1922.

157,046. CERTAIN ARTICLES OF CLOTHING. DERWENT MILLS LIMITED, Matlock Borough, England.
Filed October 5, 1920. Serial No. 137,921. PUBLISHED APRIL 11, 1922.

157,047. FERROUS AND NONFERROUS METAL CASTINGS AND METAL FORGINGS, BUT NOT INCLUDING TEXTILE MACHINERY OR PARTS THEREOF. DUNBAR DROP FORGE COMPANY, Chicago, Ill.
Filed May 16, 1919. Serial No. 118,540. PUBLISHED MAY 10, 1921.

157,048. MEN'S AND BOYS' OUTER WEARING NEGLIGEE AND WORK SHIRTS. SIGMUND EISNER COMPANY, Red Bank, N. J.
Filed January 17, 1921. Serial No. 142,335. PUBLISHED MARCH 28, 1922.

157,049. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND PURIFIED DRINKING WATER. THE ELECTROZONE WATER COMPANY, Oklahoma, Okla.
Filed January 24, 1921. Serial No. 142,701. PUBLISHED AUGUST 30, 1921.

157,050. BURNERS FOR LIGHTING, HEATING, AND COOKING PURPOSES. ELEKTRIZITÄTSWERK LONZA, Gampel, Switzerland.
Filed March 16, 1921. Serial No. 144,804. PUBLISHED JANUARY 31, 1922.

157,051. A GARMENT CONSISTING OF BUNGALOW APRONS FOR NURSES, HOUSEWIVES, AND FEMALES GENERALLY. THE ELIAS AND LOWENSTEIN COMPANY, Cincinnati, Ohio.
Filed January 26, 1921. Serial No. 142,781. PUBLISHED APRIL 25, 1922.

157,052. RUBBER SOLES AND HEELS. ESSEX RUBBER COMPANY, Trenton, N. J.
Filed December 2, 1921. Serial No. 156,189. PUBLISHED APRIL 11, 1922.

157,053. STEEL COAL, WOOD, AND COMBINATION OF COAL AND GAS AND WOOD AND GAS RANGES. EUREKA STEEL RANGE CO., O'Fallon, Ill., and St. Louis, Mo.
Filed November 25, 1921. Serial No. 155,876. PUBLISHED FEBRUARY 28, 1922.

157,054. STEEL COAL, WOOD, AND COMBINATION COAL AND GAS AND WOOD AND GAS RANGES. EUREKA STEEL RANGE CO., O'Fallon, Ill., and St. Louis, Mo.
Filed November 25, 1921. Serial No. 155,877. PUBLISHED FEBRUARY 28, 1922.

157,055. COFFEE, TEA, SPICES, VINEGAR, AND FLAVORING EXTRACTS FOR FOODS. DAVID G. EVANS COFFEE COMPANY, St. Louis, Mo.
Filed January 27, 1920. Serial No. 127,636. PUBLISHED FEBRUARY 8, 1921.

157,056. SHOES AND BOOTS MADE OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS OF THOSE MATERIALS. THE EXCELSIOR SHOE COMPANY, Portsmouth, Ohio.
Filed September 30, 1921. Serial No. 153,546. PUBLISHED APRIL 4, 1922.

157,057. EXCELSIOR, EXCELSIOR PRODUCTS—NAMELY, PADS, AND PARTICULARLY EXCELSIOR PADS FOR EGG PACKING. EXCELSIOR WRAPPER COMPANY, Chicago, Ill.
Filed January 16, 1922. Serial No. 157,991. PUBLISHED MARCH 21, 1922.

157,058. WATCH BLANKS—THAT IS, THE PLATES AND BRIDGES FORMING THE WATCH CASINGS AND THE UNFINISHED GEARS (STAMPED WHEELS AND PINIONS). FABRIQUE D'HORLOGERIE DE FONTAINEMELON S. A., Fontainemelon, Switzerland.
Filed September 30, 1920. Serial No. 137,771. PUBLISHED MAY 2, 1922.

157,059. WATCH BLANKS—THAT IS, THE PLATES AND BRIDGES FORMING THE WATCH CASINGS AND THE UNFINISHED GEARS (STAMPED WHEELS AND PINIONS). FABRIQUE D'HORLOGERIE DE FONTAINEMELON S. A., Fontainemelon, Switzerland.
Filed September 30, 1920. Serial No. 137,772. PUBLISHED MAY 2, 1922.

157,060. FRESH GRAPES. FAIRVIEW GRAPE GROWERS ASS'N, Sanger, Calif.
Filed June 3, 1921. Serial No. 148,589. PUBLISHED APRIL 4, 1922.

157,061. MEN'S OUTER GARMENTS—NAMELY, MEN'S SUITS AND OVERCOATS. JOSEPH JACOB FATT, New York, N. Y.
Filed February 9, 1920. Serial No. 128,149. PUBLISHED APRIL 25, 1922.

157,062. COMBINED SPONGE AND WASH RAG. GEORGE FIERHELLER, Toronto, Ontario, Canada.
Filed September 24, 1921. Serial No. 153,284. PUBLISHED MARCH 21, 1922.

157,063. RUBBER TIRES, PARTICULARLY THE OUTER CASINGS OF AUTOMOBILE TIRES. THE FISK RUBBER COMPANY, Chicopee Falls, Mass.
Filed October 24, 1921. Serial No. 154,497. PUBLISHED JANUARY 31, 1922.

157,064. THREAD AND YARN. THE FLOCK MANUFACTURING COMPANY, Philadelphia, Pa.
Filed November 22, 1921. Serial No. 155,745. PUBLISHED FEBRUARY 28, 1922.

157,065. DIAPERS AND DIAPER MATERIAL. FORNEY & CO., INC., New York, N. Y.
Filed August 27, 1921. Serial No. 152,244. PUBLISHED MARCH 28, 1922.

157,066. LOCKS, LATCHES, AND PADLOCKS. THE E. T. FRAIM LOCK COMPANY, Lancaster, Pa.
Filed May 26, 1921. Serial No. 148,264. PUBLISHED APRIL 25, 1922.

157,067. LOCKS, LATCHES, AND PADLOCKS. THE E. T. FRAIM LOCK COMPANY, Lancaster, Pa.
Filed May 26, 1921. Serial No. 148,265. PUBLISHED APRIL 25, 1922.

157,068. METAL TERMINALS OR ELECTRODES FOR SPARK PLUGS. HARDY M. FREDRIKSEN, Tacoma, Wash., assignor to Spark-O-Metals Company, Seattle, Wash.
Filed May 16, 1918. Serial No. 110,922. PUBLISHED NOVEMBER 5, 1920.

157,069. HATS AND CAPS FOR MEN AND BOYS. FRED & COMPANY, Chicago, Ill.
Filed July 21, 1921. Serial No. 150,741. PUBLISHED APRIL 4, 1922.

157,070. ICE-MAKING AND REFRIGERATING MACHINERY. FRICK COMPANY, Waynesboro, Pa.
Filed May 23, 1921. Serial No. 148,062. PUBLISHED APRIL 25, 1922.

157,071. TIES, CRAVATS, AND FOUR-IN-HAND TIES. FRIEDMAN BROS. & SON NECKWEAR COMPANY INC., New York, N. Y.
Filed June 11, 1921. Serial No. 148,985. PUBLISHED APRIL 11, 1922.

157,072. MEN'S NAINSOOK ATHLETIC UNDERWEAR, BOTH ONE AND TWO PIECE GARMENTS. MAX J. FRIEDMAN, New York, N. Y.
Filed August 25, 1921. Serial No. 152,167. PUBLISHED MARCH 28, 1922.

157,073. TOILET BRUSHES—NAMELY, HAIR AND TOOTH BRUSHES. GEO. R. GIBSON CO., New York, N. Y.
Filed December 8, 1920. Serial No. 140,794. PUBLISHED NOVEMBER 1, 1921.

157,074. WOMEN'S COTTON APRONS AND DRESSES. I. GINSBERG & BROS, New York, N. Y.
Filed August 5, 1921. Serial No. 151,455. PUBLISHED MARCH 28, 1922.

157,075. WOMEN'S, MISSES', AND CHILDREN'S DRESSES, SKIRTS, AND WAISTS MADE OF COTTON FABRIC. I. GINSBERG & BROS., New York, N. Y.
Filed August 5, 1921. Serial No. 151,456. PUBLISHED MARCH 28, 1922.

157,076. FABRIC SLIPPERS. ISAAC GOLDBERG, New York, N. Y.
Filed October 12, 1921. Serial No. 154,020. PUBLISHED APRIL 4, 1922.

157,077. LEATHER, KID, FABRIC, SUEDE, AND SILK GLOVES. GOODHAND, SMITH & JOHN, INC., Wilmington, Del., and New York, N. Y.
Filed July 19, 1921. Serial No. 150,614. PUBLISHED APRIL 11, 1922.

157,078. BOOTS, SHOES, LEGGINGS, SPATS, RUBBERS, GAITERS, AND OVERSHOES, EACH OF SAID ARTICLES OF GOODS BEING EITHER OF LEATHER, RUBBER, FABRIC, OR OF COMBINATION OF THE SAID MATERIALS. HYMAN GORDON, New York, N. Y.
Filed December 19, 1921. Serial No. 156,898. PUBLISHED APRIL 11, 1922.

157,079. CANDY. GRAMERCY CHOCOLATE COMPANY, INC., New York, N. Y.
Filed September 16, 1919. Serial No. 122,772. PUBLISHED APRIL 11, 1922.

157,080. LEATHER BELTING. GRANT LEATHER CORPORATION, Kingsport, Tenn.
Filed September 12, 1921. Serial No. 152,845. PUBLISHED DECEMBER 27, 1921.

157,081. FANCY YARNS AND ACETYLCELLULOSE THREAD. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed December 7, 1921. Serial No. 156,378. PUBLISHED FEBRUARY 28, 1922.

157,082. WOOD HEELS. GRAY-HATHAWAY WOOD HEEL COMPANY, Lynn, Mass.
Filed January 17, 1922. Serial No. 158,040. PUBLISHED APRIL 18, 1922.

157,083. AUTOMOBILES AND THEIR STRUCTURAL PARTS. GRAY MOTOR CORPORATION, Detroit, Mich.
Filed December 9, 1921. Serial No. 156,490. PUBLISHED FEBRUARY 28, 1922.

157,084. MEN'S DRESS, WORK, AND NEGLIGEE SHIRTS. GREENBAUM, WEIL & MICHELS, San Francisco, Calif.
Filed August 16, 1921. Serial No. 151,828. PUBLISHED APRIL 25, 1922.

157,085. CONDIMENTS AND SPICES—NAMELY, PEPPER SAUCE, PICKLED PEPPERS, GROUND CAYENNE PEPPER, CHOWCHOW—AND CANNED FRUITS. THE GREEN TOP COMPANY, New Iberia La.
Filed December 7, 1921. Serial No. 156,382. PUBLISHED APRIL 18, 1922.

157,086. CLOTH GLOVES. GREWEN FABRIC COMPANY, INC., Johnston, N. Y.
Filed October 28, 1921. Serial No. 154,685. PUBLISHED APRIL 18, 1922.

157,087. GARMENT HANGERS. JOHN GRIMBERG, New York, N. Y.
Filed October 27, 1921. Serial No. 154,643. PUBLISHED JANUARY 31, 1922.

157,088. TEXTILE FABRIC COATED WITH WATERPROOF MATERIAL AND HAVING AN ORNAMENTAL FINISH, FOR USE IN MILLINERY AND FOR DECORATIVE PURPOSES, SOLD IN THE PIECE. MAURICE W. GRINNELL, New York, N. Y.
Filed July 9, 1921. Serial No. 150,191. PUBLISHED MARCH 21, 1922.

157,089. BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER AND CLOTH. J. J. GROVER'S SONS COMPANY, Lynn, Mass.
Filed November 12, 1921. Serial No. 155,306. PUBLISHED APRIL 4, 1922.

157,090. DISTILLED WATER, NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. H-2-O STILL COMPANY, Baltimore, Md.
Filed December 15, 1920. Serial No. 141,107. PUBLISHED AUGUST 30, 1921.

157,091. FIRE FENDERS, FURNACE BARS. HADFIELDS LIMITED, Sheffield, England.
Filed August 19, 1920. Serial No. 136,262. PUBLISHED DECEMBER 27, 1921.

157,092. LEATHER SHOES. J. S. HALL'S SONS, Knoxville, Tenn.
Filed December 3, 1921. Serial No. 156,224. PUBLISHED APRIL 4, 1922.

157,093. MEN'S, WOMEN'S, AND CHILDREN'S SHOES OF LEATHER AND FABRIC. WM. HAHN & CO., Washington, D. C.
Filed July 8, 1921. Serial No. 150,147. PUBLISHED APRIL 11, 1922.

157,094. FINGER-PIECE EYEGLASS MOUNTINGS. F. A. HARDY & COMPANY, Chicago, Ill.
Filed November 3, 1921. Serial No. 154,980. PUBLISHED APRIL 25, 1922.

157,095. PLUMBERS' TABLES AND VISE SUPPORTS. GEORGE L. HARGEY, trading as Standall Works, Pottsville, Pa.
Filed December 15, 1921. Serial No. 156,743. PUBLISHED APRIL 25, 1922.

157,096. MEN'S AND BOYS' DRESS AND NEGLIGEE SHIRTS. THE HERZFELD-PHILLIPSON COMPANY, Milwaukee, Wis.
Filed December 15, 1919. Serial No. 126,028. PUBLISHED MARCH 28, 1922.

157,097. WORK CLOTHES IN THE NATURE OF OVERALLS, PANTS, AND SHIRTS. HIGGINBOTHAM-BAILEY-LOGAN COMPANY, Dallas, Tex., and New York, N. Y.
Filed August 2, 1921. Serial No. 151,269. PUBLISHED APRIL 25, 1922.

157,098. BEDROOM SLIPPERS MADE OF FABRIC WITH SOFT-LEATHER BOTTOMS. SAMUEL JAMES HILL, Atlanta, Ga.
Filed November 5, 1921. Serial No. 155,058. PUBLISHED APRIL 11, 1922.

157,099. TROUSERS, SHIRT, COAT, GOWN, AND SUIT HANGERS, SINGLY AND IN COMBINATION. HINCHER MANUFACTURING COMPANY OF INDIANA, Washington, Ind.
Filed December 24, 1920. Serial No. 141,493. PUBLISHED DECEMBER 27, 1921.

157,100. FIRECRACKERS. HITT FIREWORKS COMPANY, INC., Seattle, Wash.
Filed March 30, 1921. Serial No. 145,448. PUBLISHED APRIL 25, 1922.

157,101. COFFEE AND TEA. HOFFMAN-HATMAN COFFEE COMPANY, San Antonio, Tex.
Filed September 7, 1920. Serial No. 136,889. PUBLISHED MARCH 28, 1922.

157,102. CLOTHS OF WOOL MADE BY THE YARD OR IN THE PIECE. WILLIAM HOLLINS & COMPANY, LIMITED, London and Mansfield, England.
Filed April 29, 1921. Serial No. 146,964. PUBLISHED APRIL 25, 1922.

157,103. RUBBER HEELS. HOOD RUBBER COMPANY, Watertown, Mass.
Filed November 9, 1921. Serial No. 155,227. PUBLISHED APRIL 4, 1922.

157,104. CLOTH IN THE PIECE OF WOOL, COTTON, OR MIXTURES OF THE SAME. HOWARD AND JONES, INC., New York, N. Y.
Filed June 20, 1921. Serial No. 149,401. PUBLISHED APRIL 11, 1922.

157,105. TROUSERS. H. & S. MANUFACTURING COMPANY, Los Angeles, Calif.
Filed August 27, 1921. Serial No. 152,256. PUBLISHED MARCH 28, 1922.

157,106. RUBBER TIRES. HUDSON TIRE CO. INC., Newark, N. J.
Filed August 18, 1921. Serial No. 151,914. PUBLISHED FEBRUARY 21, 1922.

157,107. WOOLEN AND CANVAS CAMPING OR SLEEPING BAGS. F. C. HUYCK & SONS, Albany, N. Y.
Filed September 9, 1921. Serial No. 152,750. PUBLISHED APRIL 11, 1922.

157,108. WOOLEN AND CANVAS CAMPING OR SLEEPING BAGS. F. C. HUYCK & SONS, Albany, N. Y.
Filed September 9, 1921. Serial No. 152,751. PUBLISHED APRIL 11, 1922.

157,109. SHOES MADE FROM LEATHER, RUBBER, AND FABRIC OR COMBINATIONS THEREOF. IDEAL SHOE MANUFACTURING COMPANY, Milwaukee, Wis.
Filed July 30, 1921. Serial No. 151,168. PUBLISHED APRIL 4, 1922.

157,110. COAL, WOOD, COKE, OIL, AND GAS STOVES, RANGES, FURNACES, AND COMBINATION COAL AND GAS STOVES. THE INDEPENDENT STOVE COMPANY, Owosso, Mich.
Filed December 19, 1921. Serial No. 156,968. PUBLISHED MARCH 21, 1922.

157,111. CHEWING GUM. THE INDIA COMPANY, Newark, N. J.
Filed March 8, 1921. Serial No. 144,458. PUBLISHED APRIL 4, 1922.

157,112. AUTOMOBILE LUGGAGE CARRIERS AND AUTOMOBILE TIRE CARRIERS. THE INTERLOCK HARDWARE COMPANY, INC., New Haven, Conn.
Filed March 11, 1921. Serial No. 144,621. PUBLISHED DECEMBER 27, 1921.

157,113. SHOES FOR MEN, WOMEN, AND CHILDREN. MADE OF LEATHER, RUBBER, FABRIC, OR THE COMBINATION THEREOF. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed July 19, 1921. Serial No. 150,617. PUBLISHED APRIL 11, 1922.

157,114. GLASS MILK BOTTLES. WALTER L. JOHNSON, Endicott, N. Y.
Filed September 21, 1921. Serial No. 153,181. PUBLISHED DECEMBER 27, 1921.

157,115. YARNS, WARPS, FLOSSES, THREADS, AND TINSEL PRODUCTS—NAMELY, TINSEL THREADS. THE J. R. MONTGOMERY COMPANY, Windsor Locks, Conn.
Filed May 20, 1921. Serial No. 147,971. PUBLISHED FEBRUARY 28, 1922.

157,116. HOSIERY. SIMON KAPLAN, New York, N. Y.
Filed August 24, 1921. Serial No. 152,129. PUBLISHED MARCH 28, 1922.

157,117. CERTAIN NAMED AEROPLANES AND PARTS THEREOF. HORACE KEANE AEROPLANES, INC., New York, N. Y.
Filed November 6, 1920. Serial No. 139,278. PUBLISHED MARCH 21, 1922.

157,118. TRACTORS AND CARBURETORS. HORACE KEANE AEROPLANES, INC., New York, N. Y.
Filed November 6, 1920. Serial No. 139,279. PUBLISHED APRIL 25, 1922.

157,119. HOSIERY OF ALL KINDS. KERSEY HOSIERY COMPANY, Mount Holly, N. J.
Filed June 27, 1921. Serial No. 149,705. PUBLISHED APRIL 18, 1922.

157,120. WOMEN'S UNDERGARMENTS AND SANITARY PANTALETTES. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed August 15, 1921. Serial No. 151,800. PUBLISHED MARCH 28, 1922.

157,121. INTERNAL-COMBUSTION ENGINES AND PARTS THEREOF AND CERTAIN ACCESSORIES THEREFOR. KNOX MOTORS COMPANY, Springfield, Mass.
Filed November 6, 1920. Serial No. 139,283. PUBLISHED MARCH 22, 1921.

157,122. CERTAIN NAMED CARS AND PARTS THEREOF. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppell and Pittsburgh, Pa.
Filed May 13, 1920. Serial No. 132,392. PUBLISHED JANUARY 31, 1922.

157,123. LADIES' AND MISSES' LEATHER SHOES. THE KRIPPENDORF-DITTMANN CO., Cincinnati, Ohio.
Filed August 22, 1921. Serial No. 152,016. PUBLISHED APRIL 4, 1922.

157,124. CHILDREN'S GARMENTS CONSISTING OF GIRLS' ROMPERS, PLAY GARMENTS, AND DRESSES. KUH BROTHERS, San Francisco, Calif.
Filed July 12, 1921. Serial No. 150,274. PUBLISHED APRIL 11, 1922.

157,125. CUT LEATHER SOLES. R. S. LAWRENCE, London, England.
Filed July 28, 1920. Serial No. 135,478. PUBLISHED APRIL 25, 1922.

157,126. PAPER TABLETS, PAPETERIES, ENVELOPES, AND BOXES OF SHEET PAPER. CHARLES LEICH & CO., Evansville, Ind.
Filed January 23, 1922. Serial No. 158,316. PUBLISHED APRIL 25, 1922.

157,127. CERTAIN ARTICLES OF CLOTHING. NATHAN LEVIN, Pittsburgh, Pa.
Filed April 4, 1921. Serial No. 145,695. PUBLISHED MARCH 14, 1922.

157,128. CERTAIN NAMED PIECE GOODS. LEWIS MANUFACTURING CO., Walpole, Mass.
Filed April 19, 1921. Serial No. 146,380. PUBLISHED APRIL 25, 1922.

157,129. RUBBER TIRES. B. LICHTIG & SON, INC., Oakland, Calif.
Filed November 8, 1921. Serial No. 155,179. PUBLISHED FEBRUARY 28, 1922.

157,130. GAS MANTLES. LINDSAY LIGHT COMPANY, Chicago, Ill.
Filed March 14, 1921. Serial No. 144,720. PUBLISHED FEBRUARY 28, 1922.

157,131. GAS MANTLES. LINDSAY LIGHT COMPANY, Chicago, Ill.
Filed November 10, 1921. Serial No. 155,267. PUBLISHED FEBRUARY 28, 1922.

157,132. WOMEN'S AND CHILDREN'S HATS. W. H. LITTLEFIELD AND COMPANY INC., Buffalo, N. Y.
Filed July 28, 1921. Serial No. 151,047. PUBLISHED APRIL 4, 1922.

157,133. WOMEN'S AND CHILDREN'S HATS. W. H. LITTLEFIELD AND COMPANY INC., Buffalo, N. Y.
Filed July 28, 1921. Serial No. 151,048. PUBLISHED APRIL 4, 1922.

157,134. WOMEN'S AND CHILDREN'S HATS. W. H. LITTLEFIELD AND COMPANY INC., Buffalo, N. Y.
Filed July 28, 1921. Serial No. 151,049. PUBLISHED APRIL 4, 1922.

157,135. WOMEN'S AND CHILDREN'S HATS. W. H. LITTLEFIELD AND COMPANY INC., Buffalo, N. Y.
Filed July 28, 1921. Serial No. 151,050. PUBLISHED APRIL 4, 1922.

157,136. SAFETY-RAZOR-BLADE-STROPPING HOLDERS. JOHN J. LOCHMAN, Carlstadt, N. J.
Filed October 4, 1921. Serial No. 153,731. PUBLISHED APRIL 25, 1922.

157,137. MEN'S AND CHILDREN'S HATS AND CAPS. D. E. LOEWE & CO., Danbury, Conn.
Filed August 17, 1921. Serial No. 151,878. PUBLISHED APRIL 25, 1922.

157,138. SILK DRESSES. DAVID H. LOWENTHAL & CO., New York, N. Y.
Filed September 2, 1921. Serial No. 152,512. PUBLISHED MARCH 28, 1922.

157,139. GRATES AND STOKERS. MCCLAVE-BROOKS CO., Scranton, Pa.
Filed October 4, 1921. Serial No. 153,732. PUBLISHED JANUARY 31, 1922.

157,140. WATERPROOFED TEXTILE FABRICS SUITABLE FOR RAINCOATS. EDWARD MCCONNELL & CO., New York, N. Y.
Filed October 11, 1919. Serial No. 123,706. PUBLISHED FEBRUARY 21, 1922.

157,141. BOATS. MCINTYRE BROS., Cranford, N. J.
Filed January 26, 1922. Serial No. 158,485. PUBLISHED FEBRUARY 28, 1922.

157,142. MEN'S, LADIES', CHILDREN'S, AND INFANTS' HOSIERY. WM. T. MCVAUGH COMPANY, INC., New York, N. Y.
Filed May 23, 1921. Serial No. 148,082. PUBLISHED APRIL 11, 1922.

157,143. RAZOR-STROP DRESSING. JOHN M. MCVOY, Springhill, Ala.
Filed July 30, 1921. Serial No. 151,185. PUBLISHED FEBRUARY 7, 1922.

157,144. RUBBER BELTING AND RUBBER HOSE. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J.
Filed April 11, 1921. Serial No. 146,025. PUBLISHED FEBRUARY 21, 1922.

157,145. SHOCK ABSORBERS FOR AUTOMOBILES. THE MARVEL SHOCK ABSORBER COMPANY, Cleveland, Ohio.
Filed April 25, 1921. Serial No. 146,721. PUBLISHED JANUARY 31, 1922.

157,146. CANDIES AND CHOCOLATES. MASON, AU & MAGENHEIMER CONF. MFG. CO., Brooklyn, N. Y.
Filed February 19, 1919. Serial No. 115,994. PUBLISHED MARCH 9, 1920.

157,147. MOPS. MASSASOIT MANUFACTURING COMPANY, Fall River, Mass.
Filed March 4, 1920. Serial No. 129,222. PUBLISHED NOVEMBER 2, 1920.

157,148. SHOES AND MOCCASINS MADE OF LEATHER AND ALSO MADE OF FABRIC FOR BABIES. THE MATER-MACK CO., INC., Rochester, N. Y.
Filed October 12, 1921. Serial No. 154,039. PUBLISHED APRIL 4, 1922.

157,149. ELECTRICAL TOYS. MECCANO LIMITED, Liverpool, England.
Filed October 21, 1920. Serial No. 138,647. PUBLISHED DECEMBER 20, 1921.

157,150. LADIES' DRESSES. MEYER CLOAK & DRESS CO. INC., Baltimore, Md.
Filed July 11, 1921. Serial No. 150,243. PUBLISHED MARCH 28, 1922.

157,151. CERTAIN ARTICLES OF CLOTHING. MILL-RICH SERVICE, New York, N. Y.
Filed August 1, 1921. Serial No. 151,227. PUBLISHED APRIL 11, 1922.

157,152. FABRIC GLOVES. MILLS & GIBB CORPORATION, New York, N. Y.
Filed September 22, 1921. Serial No. 153,219. PUBLISHED APRIL 11, 1922.

157,153. COTTON, SILK, LINEN, AND MIXTURES OF COTTON AND SILK AND LINEN AND SILK PIECE GOODS. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed December 12, 1921. Serial No. 156,588. PUBLISHED APRIL 25, 1922.

157,154. LEATHER SLIPPERS AND SHOES. LAURENCE WILNOR MORRISON, Milwaukee, Wis.
Filed April 21, 1921. Serial No. 146,491. PUBLISHED APRIL 11, 1922.

157,155. A LENS. WALTER E. MOULTON, Geneva, Ohio.
Filed January 3, 1922. Serial No. 157,437. PUBLISHED FEBRUARY 28, 1922.

157,156. NATURAL AND ARTIFICIAL VANILLA FLAVORING COMPOUNDS. THE MULLER-HOUSEMAN COMPANY, Grand Rapids, Mich.
Filed December 17, 1920. Serial No. 141,231. PUBLISHED MARCH 7, 1922.

157,157. CERTAIN ARTICLES OF CLOTHING. CHARLES MUNTER, New York, N. Y.
Filed December 20, 1920. Serial No. 141,323. PUBLISHED APRIL 11, 1922.

157,158. MEN'S, WOMEN'S, AND CHILDREN'S KNITTED OR TEXTILE UNDERWEAR; SWEATERS, NECKTIES, CORSETS, HATS, CAPS, AND SCARFS. MYERS DRY GOODS CO., Morristown, Tenn.
Filed November 24, 1920. Serial No. 140,130. PUBLISHED APRIL 18, 1922.

157,159. LEATHER SHOES, FABRIC SHOES, AND SHOES FORMED OF BOTH LEATHER AND FABRIC. NATHAN, MORPHY & CO., INC., Lewiston, Me.
Filed July 29, 1921. Serial No. 151,096. PUBLISHED APRIL 4, 1922.

157,160. MEN'S AND BOYS' DRESS AND NEGLIGEE SHIRTS. NORTH BROS. & CO., Baltimore, Md.
Filed August 22, 1921. Serial No. 152,033. PUBLISHED APRIL 11, 1922.

157,161. AUTOMOBILES AND MOTOR TRUCKS. NORTHWAY MOTORS CORPORATION, Natick, Mass.
Filed June 10, 1921. Serial No. 148,947. PUBLISHED DECEMBER 27, 1921.

157,162. HEELS OF RUBBER AND LEATHER IN COMBINATION. NOVA HEEL MANUFACTURING CO., Berkeley, Calif.
Filed October 13, 1921. Serial No. 154,063. PUBLISHED APRIL 18, 1922.

157,163. TROUSERS. D. M. OBERMAN MFG. CO., Jefferson City, Mo.
Filed April 22, 1921. Serial No. 146,582. PUBLISHED APRIL 11, 1922.

157,164. SALT. THE OHIO SALT COMPANY, Wadsworth, Ohio.
Filed December 3, 1921. Serial No. 156,237. PUBLISHED MARCH 21, 1922.

157,165. OLIVE OIL. OLEICOLA TARRAGONA S. A., Tarragona, Spain.
Filed June 25, 1921. Serial No. 149,660. PUBLISHED APRIL 4, 1922.

157,166. BATHING SUITS. OLIVER KNITTING COMPANY, Philadelphia, Pa.
Filed August 31, 1921. Serial No. 152,440. PUBLISHED MARCH 28, 1922.

157,167. HOSIERY. OLIVER KNITTING COMPANY, Philadelphia, Pa.
Filed August 31, 1921. Serial No. 152,441. PUBLISHED MARCH 28, 1922.

157,168. TABLE KNIVES, FORKS, AND SPOONS OF BASE METALS FOR HOUSEHOLD USE; POCKET-KNIVES, SCISSORS; DIES FOR ENGRAVING, STAMPING, OR EMBOSSING STATIONERY. OVINGTON BROS. COMPANY, New York, N. Y.
Filed January 18, 1921. Serial No. 142,400. PUBLISHED APRIL 25, 1922.

157,169. CHINAWARE, EARTHENWARE, AND PORCELAIN. OVINGTON BROS. COMPANY, New York, N. Y.
Filed January 18, 1921. Serial No. 142,410. PUBLISHED APRIL 4, 1922.

157,170. CANDIES AND ICE CREAM. PANGBURN COMPANY, INC., Fort Worth, Tex.
Filed June 21, 1921. Serial No. 149,478. PUBLISHED APRIL 11, 1922.

157,171. PISTON RINGS. THE PERFECTION PISTON RING COMPANY, Ravenna, Ohio.
Filed March 11, 1921. Serial No. 144,635. PUBLISHED FEBRUARY 28, 1922.

157,172. CANNED FRUITS, VEGETABLES, SCALE AND SHELL FISH, AND VINEGAR. J. C. PERRY & COMPANY, Indianapolis, Ind.
Filed December 7, 1921. Serial No. 156,400. PUBLISHED APRIL 18, 1922.

157,173. CERTAIN NAMED CONSTRUCTION MATERIALS. THE PHILIP CAREY MANUFACTURING CO., Lockland, Ohio.
Filed September 26, 1921. Serial No. 153,339. PUBLISHED FEBRUARY 7, 1922.

157,174. INTERNAL-COMBUSTION ENGINES AND PARTS THEREOF. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed October 7, 1920. Serial No. 138,060. PUBLISHED APRIL 25, 1922.

157,175. TOY AEROPLANES. PERCY PIERCE, Philadelphia, Pa.
Filed October 30, 1919. Serial No. 124,355. PUBLISHED SEPTEMBER 7, 1920.

157,176. BOOTS, SHOES, AND SLIPPERS MADE EITHER WHOLLY OF LEATHER OR OF FABRIC, SUCH AS CANVAS, SATIN, OR CLOTH OR A COMBINATION OF LEATHER AND FABRIC. THE PLAUT-BUTLER COMPANY, Cincinnati, Ohio.
Filed October 24, 1921. Serial No. 154,530. PUBLISHED APRIL 4, 1922.

157,177. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed November 19, 1921. Serial No. 155,635. PUBLISHED APRIL 4, 1922.

157,178. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed November 19, 1921. Serial No. 155,636. PUBLISHED APRIL 4, 1922.

157,179. REBUILT TYPEWRITERS, TYPEWRITER REPAIR PARTS, PLATEN ROLLERS, TYPEWRITER REPAIR AND MAINTENANCE KITS. ABRAM H. POST, Chicago, Ill.
Filed November 10, 1921. Serial No. 155,274. PUBLISHED APRIL 25, 1922.

157,180. LADIES' HATS. QUAKER HAT COMPANY, New York, N. Y.
Filed July 12, 1921. Serial No. 150,289. PUBLISHED APRIL 11, 1922.

157,181. RAILWAY SPIKES. RAILWAY LOCK-SPIKE CO., Atlanta, Ga.
Filed August 5, 1921. Serial No. 151,478. PUBLISHED APRIL 25, 1922.

157,182. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS. RAUH BROS. & CO., Pittsburgh, Pa.
Filed March 30, 1921. Serial No. 145,477. PUBLISHED DECEMBER 20, 1921.

157,183. BRAKE LINING. THE RAYBESTOS COMPANY, Bridgeport, Conn.
Filed July 16, 1921. Serial No. 150,469. PUBLISHED FEBRUARY 21, 1922.

157,184. AUTOMOBILE TEXTILE FAN BELTS. RAYDEO BELT CO., Pleasant Ridge, Ohio.
Filed October 17, 1921. Serial No. 154,237. PUBLISHED MARCH 21, 1922.

157,185. [WITHDRAWN.]

157,186. SKIN GLOVES. REYNIER & CIE., Grenoble, France, assignor to Etablissements Reynier, Grenoble, France, a Corporation of France.
Filed March 16, 1921. Serial No. 144,835. PUBLISHED APRIL 11, 1922.

157,187. THREADS AND YARNS OF SILK AND ARTIFICIAL SILK. A. H. RICE COMPANY, Pittsfield, Mass.
Filed October 18, 1921. Serial No. 154,285. PUBLISHED DECEMBER 27, 1921.

157,188. COFFEE. RIDENOUR-BAKER GROCERY COMPANY, Kansas City, Mo.
Filed May 24, 1921. Serial No. 148,166. PUBLISHED OCTOBER 4, 1921.

157,189. LEATHER SHOES AND LEATHER SHOE SOLES. R. K. L. COMPANY, Grand Rapids, Mich.
Filed October 6, 1921. Serial No. 153,825. PUBLISHED APRIL 4, 1922.

157,190. WOMEN'S DRESSES. CHARLES H. D. ROBBINS CO., INC., New York, N. Y.
Filed November 23, 1920. Serial No. 140,068. PUBLISHED APRIL 25, 1922.

157,191. MILLINERY AND LADIES' READY-TO-WEAR GARMENTS. MAY ROBINS, Fort Smith, Ark.
Filed June 16, 1921. Serial No. 149,244. PUBLISHED APRIL 18, 1922.

157,192. TRUCK BODIES. LORENA W. ROBINSON, Dallas, Tex.
Filed February 2, 1920. Serial No. 127,871. PUBLISHED DECEMBER 27, 1921.

157,193. WORK SHIRTS. ROMBRO BROTHERS, Baltimore, Md.
Filed August 26, 1920. Serial No. 136,532. PUBLISHED FEBRUARY 1, 1921.

157,194. COMBINATION SPORT SHIRT AND DRAWERS. ROTHSCHILD & SONS, Kansas City, Mo.
Filed August 5, 1921. Serial No. 151,479. PUBLISHED JANUARY 31, 1922.

157,195. BOOTS AND SHOES OF A COMBINATION OF LEATHER, RUBBER, AND FABRIC. RUBBERHIDE COMPANY, Boston, Mass.
Filed November 18, 1920. Serial No. 139,818. PUBLISHED MARCH 28, 1922.

157,196. RESILIENT HEELS FOR FOOTWEAR. ARTHUR L. RUNTAN, Omaha, Nebr., assignor to The Anchor Grip Heel Company, Willoughby, Ohio.
Filed November 7, 1917. Serial No. 107,254. PUBLISHED APRIL 25, 1922.

157,197. SHOES MADE OF LEATHER AND ALSO OF COMBINATIONS OF LEATHER AND FABRIC. THE SACHS-SHOE MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed July 22, 1921. Serial No. 150,830. PUBLISHED APRIL 4, 1922.

157,198. WOMEN'S HATS. SAKS & COMPANY, New York, N. Y.
Filed August 23, 1921. Serial No. 152,103. PUBLISHED APRIL 11, 1922.

157,199. PAPER LUNCHEON SETS. THE SANITARY PRODUCTS CORPORATION OF AMERICA, Philadelphia, Pa.
Filed February 10, 1921. Serial No. 143,412. PUBLISHED DECEMBER 27, 1921.

157,200. LIFTING JACKS AND LIFTING-JACK BASES. THE O. P. SCHRIVER COMPANY, Cincinnati, Ohio.
Filed December 14, 1921. Serial No. 156,717. PUBLISHED APRIL 25, 1922.

157,201. WOMEN'S BLOUSES AND WAISTS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed August 29, 1921. Serial No. 152,349. PUBLISHED MARCH 28, 1922.

157,202. WOOL, SHETLAND FLOSS, WORSTED, MOHAIR, ALPACA, CAMEL HAIR, SILK, AND FIBER SILK PIECE GOODS. OTTO SEISS, doing business under the name of Newark Knitting Works, Newark, N. J.
Filed February 12, 1921. Serial No. 143,509. PUBLISHED APRIL 25, 1922.

157,203. WOOL, SHETLAND FLOSS, WORSTED, MOHAIR, ALPACA, CAMEL HAIR, SILK, AND FIBER SILK PIECE GOODS. OTTO SEISS, doing business under the name of Newark Knitting Works, Newark, N. J.
Filed February 12, 1921. Serial No. 143,510. PUBLISHED APRIL 25, 1922.

157,204. COTTON GLOVES AND MITTENS. THE SENECA GLOVE & MITTEN MANUFACTURING COMPANY, Tiffin, Ohio.
Filed May 4, 1920. Serial No. 132,032. PUBLISHED MARCH 28, 1922.

157,205. MEN'S, YOUNG MEN'S, AND BOYS' SUITS, COATS, TROUSERS, KNICKERBOCKERS, OVERCOATS, RAINCOATS, SPORT COATS, TOPCOATS, GABERDINE COATS, AND MACKINTOSHES. THE SIEBLER CLOTHES COMPANY, Cincinnati, Ohio.
Filed October 3, 1921. Serial No. 153,608. PUBLISHED APRIL 18, 1922.

157,206. MOTOR CYCLES, SIDE CARS, AND TRAILERS. SINCLAIR MILITOR CORPORATION, New York, N. Y.
Filed January 12, 1922. Serial No. 157,854. PUBLISHED FEBRUARY 28, 1922.

157,207. CINEMATOGRAPH FILMS FOR EXHIBITION. SOCIETA ANONIMA ITALA FILM, Turin, Italy.
Filed November 8, 1921. Serial No. 155,196. PUBLISHED APRIL 25, 1922.

157,208. PYJAMAS, ROBES, AND COMBINATION SETS OF PYJAMAS AND ROBES. STADIUM UNDERWEAR CO. INC., Baltimore, Md.
Filed August 9, 1921. Serial No. 151,596. PUBLISHED APRIL 4, 1922.

157,209. MACHINE TOOLS—NAMELY, GAUGE GRINDERS AND SHAPERS, JIGS, MACHINE-TOOL FIXTURES, AND METAL-WORKING DIES. THE STEEL PRODUCTS ENGINEERING COMPANY, Springfield, Ohio.
Filed May 31, 1921. Serial No. 148,463. PUBLISHED APRIL 25, 1922.

157,210. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. STERLING HOSIERY CO., Chicago, Ill.
Filed May 27, 1921. Serial No. 148,353. PUBLISHED APRIL 11, 1922.

157,211. CULINARY AND KITCHEN UTENSILS MADE OF METAL—NAMELY, PANS, KETTLES, POTS, BOWLS, DISHES, BATHTUBS, BASINS, TRAYS, AND PLATES. ERNEST STEVENS LIMITED, Cradley Heath, England.
Filed May 10, 1921. Serial No. 147,533. PUBLISHED MARCH 7, 1922.

157,212. WOMEN'S, MISSES', AND CHILDREN'S SUITS, DRESSES, COATS, SKIRTS, BLOUSES, WAISTS, GYMNASIUM SUITS, BLOOMERS, AND BOYS' SUITS. THE STROUSE-BAER CO., Baltimore, Md.
Filed July 17, 1920. Serial No. 135,115. PUBLISHED MARCH 28, 1922.

157,213. SWEATERS. SUNBEAM KNITTING MILLS INC., New York, N. Y.
Filed September 7, 1921. Serial No. 152,690. PUBLISHED MARCH 28, 1922.

157,214. MEN'S, BOYS', WOMEN'S, MISSES', AND CHILDREN'S KNIT UNDERWEAR. SUPERIOR KNITTING COMPANY INC., Port Carbon, Pa.
Filed August 4, 1921. Serial No. 151,430. PUBLISHED MARCH 28, 1922.

157,215. KNITTED UNDERWEAR FOR WOMEN. SYLVA KNITTING COMPANY, Hamburg, Pa.
Filed June 4, 1921. Serial No. 148,677. PUBLISHED APRIL 25, 1922.

157,216. BOYS' AND CHILDREN'S PLAY SUITS. TAUBER, LIPTON & CO., New York, N. Y.
Filed August 27, 1921. Serial No. 152,289. PUBLISHED MARCH 28, 1922.

157,217. A MALTLESS, NONALCOHOLIC BEVERAGE SOLD AS A SOFT DRINK AND SIRUPS FOR THE MANUFACTURE OF THE SAME. THEONETT & CO. INC., Chicago, Ill.
Filed April 1, 1921. Serial No. 145,598. PUBLISHED JULY 19, 1921.

157,218. COAL AND COKE. THERMOT COAL & COKE CO., Binghamton, N. Y.
Filed September 20, 1919. Serial No. 122,954. PUBLISHED FEBRUARY 8, 1921.

157,219. CERTAIN CUTTING TOOLS FOR WORKING WOOD AND METAL. JOSEPH THOMPSON, by Timothy Shaw Woodcock, William Thompson, and Ernest Thompson, executors, doing business under the name of Joseph Thompson, Sheffield, England.
Filed March 7, 1921. Serial No. 144,438. PUBLISHED APRIL 25, 1922.

157,220. COMMERCIAL MOTOR VEHICLES—NAMELY, TRUCKS AND AUTOMOBILES USED FOR CARRYING MERCHANDISE OR THE LIKE. JOHN I. THORNYCROFT & CO. LIMITED, Westminster, England.
Filed July 25, 1921. Serial No. 150,943. PUBLISHED DECEMBER 13, 1921.

157,221. HAIR NETS. THURN, BROWNE & COHEN INC., New York, N. Y.
Filed November 16, 1920. Serial No. 139,725. PUBLISHED APRIL 25, 1922.

157,222. MEN'S SUITS, CHILDREN'S SUITS, WOMEN'S OUTER SKIRTS, OUTER WAISTS, SUITS, AND DRESSES, ALL THE ABOVE GARMENTS USED FOR BURIAL PURPOSES. THEO. TIEDEMANN & SONS, INC., New York, N. Y.
Filed August 12, 1921. Serial No. 151,729. PUBLISHED APRIL 4, 1922.

157,223. MOTOR TRUCKS AND TRAILERS. TRAYLOR ENGINEERING & MANUFACTURING COMPANY, Allentown, Pa.
Filed December 15, 1920. Serial No. 141,139. PUBLISHED DECEMBER 27, 1921.

157,224. AUTOMOBILE ACCESSORIES — NAMELY, TIRE CARRIERS. THE TREXLER COMPANY, Philadelphia, Pa.
Filed May 13, 1921. Serial No. 147,755. PUBLISHED MARCH 21, 1922.

157,225. BOOTS AND SHOES MADE OF LEATHER AND FABRIC. TRI-PLEX SHOE COMPANY, Philadelphia, Pa.
Filed October 11, 1921. Serial No. 154,001. PUBLISHED APRIL 4, 1922.

157,226. PLAY FROCKS FOR LITTLE GIRLS. TUB-STUFF COMPANY INCORPORATED, Seattle, Wash.
Filed August 2, 1921. Serial No. 151,296. PUBLISHED MARCH 28, 1922.

157,227. RUBBER TIRES FOR AUTOMOBILES. THE TUSCAN TIRE & RUBBER COMPANY, Carrollton, Ohio.
Filed April 7, 1920. Serial No. 130,762. PUBLISHED FEBRUARY 28, 1922.

157,228. THUMB TACKS. TWISTOUT THUMB TACK COMPANY, Germantown, Pa.
Filed July 23, 1921. Serial No. 150,882. PUBLISHED APRIL 25, 1922.

157,229. GAS ENGINES AND CERTAIN OIL-WELL TOOLS AND EQUIPMENT. UNION TOOL COMPANY, Torrance, Calif.
Filed April 11, 1921. Serial No. 146,049. PUBLISHED APRIL 25, 1922.

157,230. HOSIERY. UNITED MILLS COMPANY, INCORPORATED, Louisville, Ky.
Filed November 6, 1920. Serial No. 139,330. PUBLISHED MARCH 28, 1922.

157,231. OVERALLS, OVERALL COATS, OVERALL TROUSERS, OVERALL SUITS, COVERALLS, AND WORK SHIRTS. THE UNITED STATES OVERALL MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed July 22, 1921. Serial No. 150,835. PUBLISHED APRIL 4, 1922.

157,232. SHEET-RUBBER PATCHES. UNITED STATES SALES CORPORATION, St. Louis, Mo.
Filed December 16, 1920. Serial No. 141,198. PUBLISHED DECEMBER 27, 1921.

157,233. MERCERIZED AND COTTON YARNS AND ARTIFICIAL AND THROWN SILK. U. S. YARN CO. INC., Brooklyn, N. Y.
Filed October 27, 1921. Serial No. 154,674. PUBLISHED JANUARY 31, 1922.

157,234. MECHANICALLY-OPERATED BOAT LOWERING AND HOISTING GEAR. GEORGE A. VAUGHAN & Co., Putnam, Conn.
Filed November 14, 1921. Serial No. 155,375. PUBLISHED APRIL 25, 1922.

157,235. A MEDICINAL SALVE FOR CERTAIN NAMED AILMENTS. VICK CHEMICAL COMPANY, Greensboro, N. C.
Filed October 26, 1921. Serial No. 154,627. PUBLISHED MARCH 7, 1922.

157,236. SMOKED MEATS, BACON, SMOKED SAUSAGES, CANNED AND DRIED SLICED BEEF, SMOKED FRANKFURTERS, LARD AND SHORTENING, AND SALAD OIL. VIRDEN PACKING COMPANY, San Francisco, Calif.
Filed January 12, 1921. Serial No. 142,185. PUBLISHED APRIL 11, 1922.

157,237. BOYS' RIBBED HOSE. JOSEPH P. VOORHEES, New York, N. Y.
Filed September 8, 1921. Serial No. 152,731. PUBLISHED APRIL 11, 1922.

157,238. FRUIT-JAR RINGS. WALKER-MATTESON COMPANY, Joliet, Ill.
Filed December 29, 1919. Serial No. 126,602. PUBLISHED FEBRUARY 28, 1922.

157,239. CIGARS. WALKER-MATTESON COMPANY, Joliet, Ill.
Filed December 29, 1919. Serial No. 126,607. PUBLISHED MAY 31, 1921.

157,240. WOMEN'S AND CHILDREN'S ONE, TWO, AND THREE PIECE KNITTED UNDERWEAR, BATHING SUITS, HOSIERY, AND SWEATERS. ARTHUR M. WEBB, New York, N. Y.
Filed August 8, 1921. Serial No. 151,567. PUBLISHED APRIL 11, 1922.

157,241. COATS, VESTS, TROUSERS, SKIRTS, HATS, AND CAPS MADE FROM LEATHER OR LEATHER PRODUCTS. JENS WEIMANN, Odense, Denmark.
Filed May 16, 1921. Serial No. 147,810. PUBLISHED APRIL 11, 1922.

157,242. CERTAIN ARTICLES OF CLOTHING AND PROTECTIVE APPAREL. JENS WEIMANN, Odense, Denmark.
Filed May 16, 1921. Serial No. 147,811. PUBLISHED APRIL 25, 1922.

157,243. TARPAULIN, WAGON COVERS, AND TENTS. H. WENZEL TENT & DUCK COMPANY, St. Louis, Mo.
Filed December 31, 1920. Serial No. 141,738. PUBLISHED JANUARY 31, 1922.

157,244. BICYCLES AND PARTS THEREOF. WESTFIELD MANUFACTURING COMPANY, Westfield, Mass.
Filed September 1, 1921. Serial No. 152,491. PUBLISHED DECEMBER 27, 1921.

157,245. WRITING PAPERS AND MAILING ENVELOPES. WHITING PAPER COMPANY, Holyoke, Mass.
Filed January 21, 1922. Serial No. 158,278. PUBLISHED APRIL 25, 1922.

157,246. SHOES, SLIPPERS, LADIES' OXFORDS, BOOTS, PUMPS, MADE FROM LEATHER, FABRICS, OR COMBINATIONS OF SUCH MATERIALS. WICHERT & GARDINER, Brooklyn, N. Y.
Filed May 31, 1921. Serial No. 148,472. PUBLISHED APRIL 11, 1922.

157,247. CANDIES. A. G. WILLIAMS HOME MADE CANDY CO. INC., New Orleans, La.
Filed December 17, 1921. Serial No. 156,872. PUBLISHED APRIL 18, 1922.

157,248. GAS AND COAL STOVES. WINCROFT STOVE WORKS, Middletown, Pa.
Filed April 28, 1921. Serial No. 146,942. PUBLISHED DECEMBER 27, 1921.

157,249. HEADLIGHT LENSES. RUSSELL T. WING, St. Cloud, Minn.
Filed September 27, 1921. Serial No. 153,423. PUBLISHED DECEMBER 27, 1921.

157,250. PUMPING MACHINERY, PUMPS, VACUUM PUMPS, AND AIR AND GAS COMPRESSORS. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y.
Filed September 26, 1921. Serial No. 153,381. PUBLISHED APRIL 25, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JULY 25, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

157,251. (CLASS 39. CLOTHING.) AMERICAN COLLAR CO., Troy, N. Y. Filed Nov. 19, 1921. Serial No. 155,585.

DOUBLE WEAR

Particular description of goods.—Collars, Cuffs, and Shirts.
Claims use since Mar. 10, 1905.

157,252. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ATLAS TACK CORPORATION, Fairhaven, Mass. Filed Mar. 31, 1921. Serial No. 145,492.

WHEN YOU GET A GOOD THING, REMEMBER WHERE YOU GOT IT.

Particular description of goods.—Tacks, Nails, and Rivets.
Claims use since on or about Jan. 1, 1914.

157,253. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BAY STATE STAMPING COMPANY, Worcester, Mass. Filed Oct. 24, 1921. Serial No. 154,470.

BENNETT'S

Particular description of goods.—Curtain Fixtures and Curtain Brackets.
Claims use since January, 1900.

157,254. (CLASS 25. LOCKS AND SAFES.) WILSON BOHANNAN, INC., Brooklyn, N. Y. Filed Jan. 7, 1922. Serial No. 157,598.

WELL WB BUILT

Particular description of goods.—Locks.
Claims use since Oct. 30, 1920.

157,255. (CLASS 39. CLOTHING.) BONAR-PHELPS COMPANY, New York, N. Y. Filed July 26, 1921. Serial No. 150,955.

BARKHALU

Particular description of goods.—Hats for Men.
Claims use since about December, 1919.

157,256. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES J. BRADLEY, New York, N. Y. Filed Mar. 23, 1922. Serial No. 161,106.

ENGLISH TUB SOAP

Particular description of goods.—Toilet Soap.
Claims use since about May, 1913.

157,257. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER MARSHALL DAVIS, doing business as The D. S. Co., Coeur d'Alene, Idaho. Filed Oct. 29, 1921. Serial No. 154,728.

DAVIS' STOMACH POWDERS

Particular description of goods.—A Preparation for the Relief of Dyspepsia, Indigestion, Gas, and All Disorders Arising from Indigestion.
Claims use since Jan. 1, 1917.

157,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WESLEY J. GALLOWAY, Sheffield, Ala. Filed Feb. 20, 1922. Serial No. 159,574.

GALLOWAY Embrocation

Particular description of goods.—A Liquid Preparation for the Treatment of Whooping Cough, Croup, Hoarseness, and Bronchitis.
Claims use since Oct. 10, 1917.

157,259. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. T. GRANT CO., New York, N. Y. Filed Nov. 15, 1921. Serial No. 155,401.

WILLARD SAW COMPANY

Particular description of goods.—Saws.
Claims use since December, 1919.

157,260. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GUARANTEED LIQUID MEASURE COMPANY, Rochester, Pa. Filed Jan. 5, 1922. Serial No. 157,520.

GUARANTEE VISIBLE

Particular description of goods.—Liquid-Dispensing Apparatus—Namely, Measuring Pumps for Gasoline and Oil.
Claims use since 1918.

157,261. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY HATCHET & JENKINS, Thomasville, Ga. Filed June 11, 1921. Serial No. 149,005.

Mary Hatchet & Jenkins

Particular description of goods.—Preparation Used in the Treatment of Indigestion.
Claims use since 1910.

157,262. (CLASS 39. CLOTHING.) HAUSER & WEIL, New York, N. Y. Filed Feb. 8, 1922. Serial No. 159,035.

THE MARK OF QUALITY H W DISTINCTLY SUPERIOR

Particular description of goods.—Belts for Men, Women, and Children.
Claims use since Nov. 4, 1915.

157,263. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE HESS AND HOPKINS LEATHER COMPANY, Rockford, Ill. Filed Mar. 28, 1922. Serial No. 161,360.

Honest Leather

Particular description of goods.—Packings, Gaskets, and Washers of Leather.
Claims use since Aug. 20, 1912.

157,264. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HOCHSCHILD, KOHN AND CO., INC., Baltimore, Md. Filed July 12, 1921. Serial No. 150,269.

Belmont

Particular description of goods.—Vacuum Cleaning Machines.
Claims use since May 9, 1921.

157,265. (CLASS 45. BEVERAGES, NONALCOHOLIC.) F. HOFFMAN & SONS, INC., Newark, N. J. Filed Apr. 14, 1922. Serial No. 162,296.

Hoffman Beverages

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Jan. 1, 1911.

157,266. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. HOYT & CO., Philadelphia, Pa. Filed Jan. 21, 1922. Serial No. 158,235.



Particular description of goods.—Cologne Water.
Claims use since about Apr. 1, 1918.

157,267. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IROKESE TRADING CORPORATION, New York, N. Y. Filed May 12, 1921. Serial No. 147,620.

Funny Faces

Particular description of goods.—Boxed Sets of Changeable-Feature Games.
Claims use since Apr. 1, 1921.

157,268. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IROKESE TRADING CORPORATION, New York, N. Y. Filed May 12, 1921. Serial No. 147,621.

Funny Fellows

Particular description of goods.—Packaged Set of Changeable-Feature Folding Cards.
Claims use since Apr. 1, 1921.

157,269. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. G. JOLLEY & SON, Denver, Colo. Filed Nov. 15, 1921. Serial No. 155,406.

Jolley's PRESCRIPTION

Particular description of goods.—Preparation for Treating Rheumatism and Purifying the Blood.
Claims use since Sept 18, 1919.

157,270. (CLASS 39. CLOTHING.) A. KEENEY CLARKE, New York, N. Y. Filed Sept. 3, 1921. Serial No. 152,538.

"VERISTRONG"

Particular description of goods.—Hosiery.
Claims use since 1909.

157,271. (CLASS 39. CLOTHING.) J. K. KRIBO COMPANY, New York, N. Y. Filed July 26, 1921. Serial No. 150,966.

SCAFE

Particular description of goods.—Combination Leather and Rubber Heels for Shoes.
Claims use since 1899.

157,272. (CLASS 32. FURNITURE AND UPHOLSTERY.) LAPSLEY & BRO. COMPANY, Baltimore, Md. Filed Mar. 31, 1922. Serial No. 161,557.

KUMPAKT

Particular description of goods.—Window Shade.
Claims use since Dec. 10, 1914.

157,273. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MEDICO DISTRIBUTING CO., INC., New York, N. Y. Filed Nov. 27, 1920. Serial No. 140,343.

MEDICO BRAND

Elixer

Particular description of goods.—A General Medicinal Tonic.
Claims use since Nov. 6, 1920.

157,274. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NATIONAL BILLIARD CHALK CO., Chicago, Ill. Filed Feb. 16, 1922. Serial No. 159,426.

NATIONAL TOURNAMENT

Particular description of goods.—Billiard Chalks.
Claims use since Jan. 1, 1916.

157,275. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) N. O. NELSON MANUFACTURING COMPANY, St. Louis, Mo. Filed Aug. 11, 1921. Serial No. 151,685.

CAN'T SPLIT SEAT

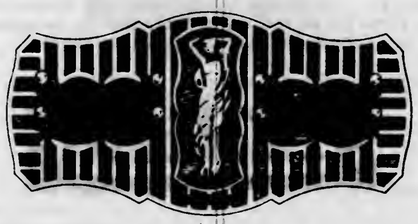
Particular description of goods.—Water-Closet Seats.
Claims use since 1911.

157,276. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ORANGE-SMASH CO., Birmingham, Ala. Filed May 13, 1922. Serial No. 163,821.



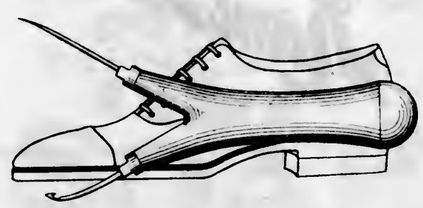
Particular description of goods.—Nonalcoholic, Maltless, Carbonated Beverage Not of a Cereal Nature Sold as a Soft Drink and Sirup for Same.
Claims use since 1915.

157,277. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHEL PASQUIER, New York, N. Y. Filed Dec. 27, 1921. Serial No. 157,170.



Particular description of goods.—Cold Creams, Face Powders, Eyebrow Pencils, Vanishing Creams, Perfumes, Toilet Waters, Sachet Powders, Rouges, Lip Sticks, Talcum Powders, Mouth Washes, Shampoo Preparations, Liquid Dressing for the Hair of the Brilliantine Type, Massage Creams, Dentifrices, and Pomades.
Claims use since August, 1913.

157,278. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WENDEL PASS, Export, Pa. Filed Apr. 1, 1921. Serial No. 145,581.



Particular description of goods.—Combination Awl Tools for Shoemakers and Leather Workers.
Claims use since Feb. 8, 1921.

157,279. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RELIANCE DIE AND STAMPING COMPANY, Chicago, Ill. Filed Feb. 12, 1921. Serial No. 148,516.



Particular description of goods.—Punch Presses.
Claims use since Nov. 15, 1920.

157,280. (CLASS 39. CLOTHING.) M. SAMUELS & CO., Baltimore, Md. Filed Jan. 20, 1922. Serial No. 158,198.

Newark

Particular description of goods.—Leather, Rubber, and Fibrous Boots, Shoes, and Slippers.
Claims use since January, 1905.

157,281. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) VICTOR SARASQUETA, Eibar, Spain. Filed Aug. 16, 1921. Serial No. 151,853.

EDER

Particular description of goods.—Hunting Guns.
Claims use since Jan. 30, 1911.

157,282. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SCRANTON GLASS INSTRUMENT COMPANY, INC., Scranton, Pa. Filed Feb. 23, 1922. Serial No. 159,725.

Kant-Stick

Particular description of goods.—Hydrometer Syringes.
Claims use since Jan. 1, 1921.

157,283. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SIMONS MANUFACTURING COMPANY, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 144,104.

BRAKE-JUICE

Particular description of goods.—A Lubricant for Increasing Friction Between Brake Bands and Drums and Upon Belts and the Like.
Claims use since Feb. 19, 1921.

157,284. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIOUX CANDY CO., Sioux City, Iowa. Filed Jan 3, 1922. Serial No. 157,444.

BETTER CANDIES

Particular description of goods.—Candies.
Claims use since Nov. 28, 1919.

157,285. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE CIVILE DES HERITIERS DE P. BASSET, Tassin la Demi-Lune (Rhone), France. Filed Oct. 11, 1921. Serial No. 153,998.

CACHETS DU DOCTEUR FAIVRE

Particular description of goods.—A General Analgesic and Medicine for Neuralgia, Headache, Toothache, Rheumatism, and Grippe.
Claims use since 1910.

157,286. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOENKSEN-WOLFF-SPIERS COMPANY, INC., Aurora, Ill. Filed Jan. 26, 1921. Serial No. 142,811.

OIL CUSHION TAPPETS

Particular description of goods.—Oil-Cushion Tappets.
Claims use since Nov. 15, 1919.

157,287. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ST. LOUIS PUMP & EQUIPMENT COMPANY, St. Louis, Mo. Filed Feb. 25, 1922. Serial No. 159,821.

St. Louis Pump and Equipment Co.
ST. LOUIS, MISSOURI.
ST. LOUIS
LIQUID HANDLING EQUIPMENT
Better Design • Better Service

Particular description of goods.—Fluid-Measuring Pumps and Meters.
Claims use since Jan. 22, 1921.

157,288. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STANDARD AUTO PARTS CO. OF AMERICA, Newark, N. J. Filed Apr. 22, 1922. Serial No. 162,777.

SIGNALITE

Particular description of goods.—Electric Signal Lamps Particularly Adapted for Use Upon Motor Vehicles.
Claims use since about April, 1920.

157,289. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) STERLING PARTS MFG. CO., Providence, R. I. Filed Apr. 12, 1922. Serial No. 162,210.

STERLING

Particular description of goods.—Oil Gauges.
Claims use since May, 1921.

157,290. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) STERLING TOY WORKS, Sterling, Ill. Filed Mar. 6, 1922. Serial No. 160,265.

TITE-LOK

Particular description of goods.—Stilts.
Claims use since about January, 1921.

157,291. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EDWIN B. STIMPSON COMPANY, Brooklyn, N. Y. Filed Feb. 9, 1921. Serial No. 143,365.

SPLIT RIVETS

Particular description of goods.—Rivets.
Claims use since prior to Dec. 1, 1919.

157,292. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TREADWELL ENGINEERING COMPANY, Easton, Pa. Filed Oct. 20, 1921. Serial No. 154,392.

TREADWELL

Particular description of goods.—Machinery—Namely, Pipe-Bending Machines, Pipe-Threading Machines, Hoists, Cableways, Rolling Mills, Gear Drives, Rope Drives, Chain Conveyers, Rope Transfers, Roller Tables, Hotbeds, Plate Turnovers, Shears, Rod Mills, and Hydraulic Accumulators.
Claims use since about Feb. 1, 1921.

157,293. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JAMES VERNOR COMPANY, Detroit, Mich. Filed Apr. 25, 1921. Serial No. 146,747.



Particular description of goods.—Ginger Ale and Ginger-Ale Extract.
Claims use since Apr. 14, 1921.

157,294. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM W. WADDELL, Chicago, Ill. Filed Feb. 13, 1922. Serial No. 159,392.

WADDELL'S REX MINERAL REX SOAP

No claim is made to the exclusive right to use the word Soap" apart from the mark as shown on the drawing.
Particular description of goods.—Soap.
Claims use since on or about Dec. 15, 1911.

157,295. (CLASS 39. CLOTHING.) WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed Nov. 18, 1921. Serial No. 155,581.

ATHLETIC

Particular description of goods.—Hosiery.
Claims use since Sept. 1, 1915.

157,296. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) M. J. WHITE, Lees Summit, Mo. Filed Jan. 23, 1922. Serial No. 158,348.

WHITE'S SUPERIOR

Particular description of goods.—Metal-Alloy Compositions—viz, Metal Solder and Aluminum Solder.
Claims use since about Mar. 1, 1920.

157,297. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROBERT L. WILSON, Tyler, Tex. Filed Feb. 20, 1922. Serial No. 159,641.

Robert L. Wilson Good Luck Washing Powder

Particular description of goods.—Washing Powder.
Claims use since about June 1, 1910.

LABELS

REGISTERED JULY 25, 1922.

24,743.—*Title:* "STRATTON'S LINIMENT." (For Bottles Containing Liniment.) F. P. BARBER and R. K. KIRBY, Brattleboro, Vt. Filed May 20, 1922.

24,744.—*Title:* "STAFFNOTE." (For Boxes Containing Player Rolls for Piano Player.) BILLINGS PLAYER ROLL COMPANY, Milwaukee, Wis. Filed January 29, 1921.

24,745.—*Title:* "KB HANDY SHOE SHINER CLOTH." (For Paper-Box Container and on Label Affixed to Cloth.) JOSEPH A. CALLAHAN, Lynn, Mass. Filed March 14, 1922.

24,746.—*Title:* "CRE-CAL CO." (For Containers of a Solution Decausticated Creosote.) GEORGE MCDANIEL CALLAWAY, San Antonio, Tex. Filed June 13, 1922.

24,747.—*Title:* "TASTEE." (For Cantaloupes.) ROSARIO DI GIORGIO, Los Angeles, Calif. Filed June 12, 1922.

24,748.—*Title:* "BUNGALOW BRAND." (For Salad Dressings.) FRED HALLBERG, Chicago, Ill. Filed July 29, 1921.

24,749.—*Title:* "HOME MADE ORANGE MARMALADE." (For Orange Marmalade.) JANE HARTMANN, Roundbrook, N. J. Filed June 14, 1922.

24,750.—*Title:* "ZANZIBAR-CARBON CRYSTAL LAUNDRY BLUE." (For Containers Holding Zanzibar-Carbon Crystal Laundry Blue, a Blue Used for Laundry Purposes.) B. HELLER & COMPANY, Chicago, Ill. Filed June 13, 1922.

24,751.—*Title:* "ZANZIBAR-CARBON NON-SOUR BLUE." (For Containers Holding Zanzibar Carbon Non-Sour Blue, a Blue Used for Laundry Purposes.) B. HELLER & COMPANY, Chicago, Ill. Filed June 13, 1922.

24,752.—*Title:* "ZANZIBAR-CARBON COMBINATION LAUNDRY BLUE." (For Containers Holding Zanzibar-Carbon Combination Laundry Blue, a Blue Used for Laundry Purposes.) B. HELLER & COMPANY, Chicago, Ill. Filed June 13, 1922.

24,753.—*Title:* "ROGUE RIVER VALLEY FRUIT CRATER LAKE BRAND." (For Packages Containing Fresh Deciduous Fruits.) CLARENCE A. KNIGHT, Medford, Oreg. Filed April 24, 1922.

24,754.—*Title:* "RICHMOND MAID." (For Baking Powder.) THE LAIRD MANUFACTURING CO., INC., Richmond, Va. Filed January 11, 1922.

24,755.—*Title:* "DEXTRO MALTO NO. 3." (For Infants' Food.) MEAD JOHNSON & CO., Evansville, Ind. Filed June 12, 1922.

24,756.—*Title:* "QUEEN." (For Cartons of Japanese Hull-less Popcorn.) NORTHRUP, KING & CO., Minneapolis, Minn. Filed June 9, 1922.

24,757.—*Title:* "OLD STYLE PUREST & BEST MALT EXTRACT." (For Malt Extracts.) OLD STYLE MALT EXTRACT CO., Chicago, Ill. Filed May 3, 1920.

24,758.—*Title:* "LONG BRANCH." (For Saltine Flakes.) PACIFIC COAST BISCUIT COMPANY, Seattle, Wash. Filed June 12, 1922.

24,759.—*Title:* "LA NAPOLETANA." (For Peeled Tomatoes.) P. PASTENE & CO. INC., Boston, Mass. Filed June 12, 1922.

24,760.—*Title:* "CREAM OF BRAN." (For Cereals.) PHOSPHO FOOD CO. INC., Los Angeles, Calif. Filed June 12, 1922.

24,761.—*Title:* "CREAM OF BRAN." (For Cereals.) PHOSPHO FOOD CO. INC., Los Angeles, Calif. Filed June 12, 1922.

24,762.—*Title:* "BEN-GAY." (For a Medicinal Preparation for Rheumatism, Gout, Neuralgia.) THEODORE SELTZER, West Hoboken, N. J. Filed April 22, 1922.

24,763.—*Title:* "KING MIDAS." (For Toasted Wheat Cereal.) SHANE BROS. & WILSON CO., Minneapolis, Minn. Filed April 17, 1922.

24,764.—*Title:* "PINELAND." (For Apples.) SPOKANE VALLEY GROWERS UNION, Opportunity, Wash. Filed June 12, 1922.

24,765.—*Title:* "HUDSON REFINED PURE LARD." (For Pure Lard.) JOSEPH STERN & SONS' INC., New York, N. Y. Filed May 21, 1921.

24,766.—*Title:* "PURE HONEY." (For Honey.) SAMUEL FREDRICK VON SCHUETZ, doing business as the North American Honey Distributors, Council Bluffs, Iowa. Filed April 22, 1922.

24,767.—*Title:* "CATARACT BRAND." (For Fresh Fruit.) WESTERN NEW YORK FRUIT GROWERS' CO-OPERATIVE PACKING ASS'N., Rochester, N. Y. Filed June 14, 1922.

24,768.—*Title:* "WIDLAR'S GENUINE." (For Mocha and Java Coffee.) THE WIDLAR CO., Cleveland, Ohio. Filed June 12, 1922.

24,769.—*Title:* "SOMBRERO." (For Cantaloupes.) WITHERS BROTHERS, Los Angeles, Calif. Filed June 12, 1922.

PRINTS

REGISTERED JULY 25, 1922.

6,223.—*Title:* "AMPICO." (For Advertising Purposes for Pianos, Piano Players, and Player Pianos.) AMERICAN PIANO COMPANY, Jersey City, N. J., and New York, N. Y. Filed May 17, 1922.

6,224.—*Title:* "CREAM OF WHEAT." (For Advertising Purposes for Wheat Breakfast Food.) CREAM OF WHEAT CO., Minneapolis, Minn. Filed May 8, 1922.

6,225.—*Title:* "LITTLE SIMON." (For Advertising Purposes for Wheat Breakfast Food.) CREAM OF WHEAT Co., Minneapolis, Minn. Filed June 12, 1922.

6,226.—*Title:* "HEINZ VINEGARS EVERY DROP AWAKENS FLAVOR." (For Advertising Purposes for Heinz Vinegars.) H. J. HEINZ CO., Pittsburgh, Pa. Filed June 15, 1922.

6,227.—*Title:* "'THE PIE IN THE PIEVELOPE'." (For Advertising Purposes for Pies.) HOLBROOK PIE BAKING CO., INC., Albany, N. Y. Filed June 14, 1922.

6,228.—*Title:* "'THE PIE IN THE PIEVELOPE'." (For Advertising Purposes for Pies.) HOLBROOK PIE BAKING CO., INC., Albany, N. Y. Filed June 14, 1922.

6,229.—*Title:* "WHAT IS THE MATTER WITH YOUR HAIR?" (For Advertising Purposes for Shampoo.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed June 10, 1922.

6,230.—*Title:* "WHAT IS SHE SAYING?" (For Advertising Purposes for Sealpax Athletic Underwear.) THE SEALPAX CO., Baltimore. Md. Filed May 5. 1922.

6,231.—*Title:* "NO HOME COMPLETE WITHOUT A SUM-VIL DRY MOP." (For Advertising Purposes for Mops.) SOMERVILLE BRUSH COMPANY, Somerville, Mass. Filed June 10, 1922.

6,232.—*Title:* "UNIVERSITY." (For Advertising Purposes for Cigars.) THE J. C. STOWELL COMPANY, Ithaca, N. Y. Filed November 21, 1921.

6,233.—*Title:* "KNITTED OUTERWEAR DESERVES THE PREFERENCE." For Advertising Purposes for Knitted Outerwear.) SWEATER & KNITTED TEXTILE PUBLICITY BUREAU, INC., Baltimore, Md. Filed August 27, 1921.

6,234.—*Title:* "HYPEX." (For Advertising Purposes for Sleeve Valves for Internal-Combustion Engines.) WALLACE W. TOMPKINS, Buffalo, N. Y. Filed May 6, 1920.

6,235.—*Title:* "VIN-ROU." (For Advertising Purposes for a Fruit Beverage.) WESTERN FRUIT PRODUCTS Co., Dubuque, Iowa. Filed June 12, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

DOWELL *v.* DOMAN.

No. 1470. Decided April 3, 1922.

1. PATENTS—BURDEN IS ON APPELLANT TO SHOW CONCURRENT CONCLUSIONS OF TRIBUNALS OF PATENT OFFICE WERE WITHOUT SUBSTANTIAL SUPPORT.

Where the three tribunals of Patent Office found against the appellant in interference proceedings, the burden is on him clearly to establish that the Commissioner's conclusion is without substantial basis in the testimony.

2. SAME—STRUCTURE NOT CONTAINING ELEMENT OF ISSUE IN INTERFERENCE HELD NOT REDUCTION TO PRACTICE OF INVENTION.

Where one of the elements of the issue in interference in an air-cooling system for internal-combustion engines was a port connecting a chamber with the intake of the engine to regulate the capacity of the cooling system, a structure built and tested by the junior applicant before the filing date of the senior applicant, which did not have such a port, was not a reduction to practice of the invention in issue.

Mr. William F. Hall for Dowell.

Mr. Howard P. Denison for Doman.

SMYTH, *C. J.:*

From a decision of the Commissioner of Patents awarding priority to Doman, Dowell brings the case here.

The invention relates to an air cooling system, and is described in a single count, as follows:

The combination of an internal combustion engine, a cooling system therefor, means for varying the capacity of the cooling system, a motor for actuating the capacity varying means, having a chamber connected with the intake of the engine, a port connecting this chamber with the atmosphere, and thermostatic means adapted to close the port, thereby controlling the degree of vacuum in said chamber.

There are two questions in the case: First, was the testimony of Dowell's wife sufficient to corroborate him with respect to the time of his disclosure; and second, was he diligent when Doman came into the field? We find it necessary to answer only the second. Doman is the senior party. He took no testimony, but rested on his filing date, November 28, 1916. The three tribunals of the Office found against Dowell, and therefore the burden is on him to clearly establish that the Commissioner's conclusion is without a substantial basis in the testimony. (*Kennicott* v. *Caps*, 49 App. D. C., 187; 271 O. G., 361; 262 Fed., 641; *Ruth* v. *Groch*, —— App. D. C., ——; 296 O. G., 839; 279 Fed., 1013, and cases cited therein.)

Assuming, without deciding, that Dowell conceived, as he claims, in the summer of 1916, he did not actually reduce to practice before Doman filed. But to overcome this situation he urges that in an earlier interference it was shown that a structure built and tested by him before Doman filed formed an actual reduction to practice, and that the structure so reduced was an equivalent of the one defined by the claim. The Commissioner pointed out that the claim of the issue calls for a port so located in the device that it may be manipulated so as to govern the vacuum conditions in the motor which actuates the means that regulate the capacity of the cooling system. The device, which it is claimed was reduced to practice by Dowell, did not have such a port, and hence the claimed equivalency of that device and the one of the issue does not exist.

We agree with the Commissioner and affirm his decision.

Affirmed.

Court of Appeals of the District of Columbia.

GRAY *v.* MCAFEE.

No. 1461. Decided March 6, 1922.

INTERFERENCE—EVIDENCE REVIEWED.

Evidence reviewed and award to McAfee.

Mr. J. Edgar Bull and *Mr. R. J. Dearborn* for Gray.

Mr. Alfred M. Houghton and *Mr. Melville Church* for McAfee.

SMYTH, *C. J.:*

From a decision of the Commissioner of Patents in an interference proceeding, Gray appeals. The contest is between an application of McAfee and patents to Gray issued while McAfee's application was pending. The subject matter of the interference relates to the conversion of high-boiling petroleum hydrocarbons into lower-boiling petroleum hydrocarbons under certain conditions. There are eight counts of the issue, of which 1 and 6 are examples.

1. The process of converting hydrocarbons having higher-boiling points into naphtha, which consists in heating said hydrocarbons in the presence of anhydrous aluminum chlorid to a temperature producing vapor having a temperature not substantially above the end-boiling point of naphtha and maintaining them at such temperature.

6. The process of converting hydrocarbons having higher-boiling points into naphtha, which consists in heating said

hydrocarbons in the presence of anhydrous aluminum chlorid to a temperature producing vapor having a temperature above the end-boiling point of naphtha, but below the end-boiling point of illuminating oil, condensing the illuminating oil driven off in a preliminary cooling chamber, returning said oil to the still to be further acted on whereby higher-boiling oil is converted into naphtha and conducting the naphtha driven off to a condenser.

Gray was successful before the Examiner of Interferences, but lost on appeal to the Examiners in Chief, whose decision was affirmed by the Commissioner. It is agreed by the three tribunals that the essence of the invention lies in a proper temperature control in the vapor line, and that the present process converts substantially all the higher-boiling hydrocarbons into any desired specific lower-boiling hydrocarbon, such, for example, as gasoline.

Gray and McAfee are highly-trained chemists, and were employed by The Texas Company, which was engaged in producing and refining petroleum products. Gray says in his preliminary statement that he conceived and disclosed the invention as "early as November 5, 1912." He does not claim that he personally reduced it to practice, but asserts that what McAfee did in perfecting the process was done in accordance with a general plan disclosed by him to McAfee. From this it appears that the question to be solved is one of originality. Whether or not Gray should prevail must be determined by the consideration of a letter sent by him to McAfee on November 5, 1912. By that letter, he says, he disclosed to McAfee. No claim of a later disclosure is put forward by him. If, then, the letter did not disclose the invention Gray can not succeed.

The Examiner of Interferences found that it did, but, as we have said, the Examiners in Chief and the Commissioner held otherwise. With great thoroughness the Examiners in Chief analyzed the letter, and compared its disclosures with the claims of the issue. We do not think it necessary to do much more than follow in substance their opinion.

Gray wrote to McAfee on October 29, 1912, giving directions with respect to certain experiments which he desired him to carry out. He said that McAfee was evidently posted on all the literature relating to the subject, and that if he went ahead he would "probably accomplish something." McAfee responded, making some suggestions, part of which did not meet with Gray's approval. The latter then wrote the letter of November 5, in which he advised that McAfee take some tar or residuum from Oklahoma crude and place it in a small experimental still, but gave no intimation that aluminum chloride, or any other catalyst, should be mixed with it. He recommended that the vapor line be so placed that the vapor would have to pass up through probably eight or ten feet of pipe before reaching the condenser, and that the oil in the still be held at a temperature of 625 to 675° F. He thought that, if his suggestion was followed, it would produce cracking, and that the product passing over through the vapor line would be light hydrocarbon having a gravity lighter than 50° Baumé. He further said that the pipe should slope upward, so that nothing which condensed in it would reach the condenser, but would return to the still. The still, according to him, was to be held at the temperature specified for at least forty-eight hours, and, if this was done, he said, the distillate thrown over would contain a very large percentage of cracker products, which should be hydrogenized very rapidly. The plan thus outlined by Gray is nothing more than a cracking process to be followed by hydrogenization. This is emphasized by his further statement that,

> the distillates can probably be hydrogenized by passing a catalyzing agent in that part of the vapor line furthest from the fire, keeping this part of the line at a temperature of probably 350 degrees F.

This is all upon which he bases a disclosure of that feature of the invention which requires the maintenance in the vapor line of a temperature not substantially above the end-boiling point of naphtha. But we do not think it is open to such an interpretation. What he writes about is hydrogenization, and if the specific temperature mentioned has any significance it can only be in connection with the process of producing a hydrogenized product which is not the matter in issue here.

It should also be borne in mind that Gray is not discussing a process in which a catalyst is mixed with the oil in the still, for he specifically states that the catalyzing agent should be placed in that part of the vapor line furthest from the fire. He does not suggest a temperature below 350° F., higher for the purpose of preventing the catalyst from passing over to the condenser with the light hydrocarbons or for the purpose of allowing the naphtha products to pass over while the higher-boiling products condense and flow back to the still. Nor does he advise the use of aluminum chloride as a catalyzing agent. As just noted, he does not direct that the catalyst shall be mixed with the oil in the still. Gray attempts to explain this by saying that any one skilled in the art of refining oil, as McAfee was, would know that if aluminum chloride was to be employed as a catalyst, it should be placed in the still. But he, Gray, directs that the catalyzing agent should be placed at a point in the vapor line furthest from the fire. However, it is clear that Gray's letter does not mention the substance aluminum chloride, called for by all of the interference counts, and is specific to a mode of procedure different from that of the issue and involving the use of a catalyst other than that employed in the process in issue.

After stating that the process should be continued forty-eight to sixty hours, with a constant temperature, the letter concludes by saying:

> You will thus obtain some cracked distillates which will give you an idea of what they look like, how they smell, how they react with sulphuric acid, and when you receive your materials you will know better what is taking place.

The products mentioned in this quotation appear to be what would be produced by the treatment of heavy oils in the absence of a catalyzing agent. Finally, this letter discloses nothing in such detail as would enable McAfee to work out the process of the issue without invention.

Admittedly the invention was reduced to practice by McAfee during the month of December, 1912, and there is evidence that Gray saw demonstration of it on or about the 22d of that month. Prior to that Gray had been informed over the telephone by McAfee of a successful test of the invention which occurred about December 11 or 12. Gray does not deny this, but, as we have said, claims that what McAfee did by way of reducing it to practice inured to his benefit. In other words, he relies upon McAfee's reduction to practice had about the 11th or 12th of December.

Now happens a very significant thing: On January 23, 1913, a little over a month after McAfee's reduction to practice, Gray filed two applications for patents on this subject matter, yet he does not say one word in either about vapor control, which, as we have remarked, is conceded to be the essence of the invention. On the contrary, he describes therein the mixture of gas, oil, and anhydrous aluminum chloride in the still. In one he states that the mixture is heated to a temperature not substantially above 325 to 350° F., and in the other, not substantially above the end-boiling point of naphtha. Thus the applications remained until January 22, 1915, nearly two years, when they were amended to aver a control of vapor temperature. If Gray had the invention on the 5th of November, it seems

incredible that he would not have embodied in his applications the idea of temperature control of the vapors in the vapor line. We do not think he possessed it at that time. He knew what he wanted, but did not know how to get it. McAfee, independently of him, conceived and reduced to practice the process by which to achieve the desired end, and is entitled to priority.

The decision of the Commissioner of Patents was right, and it is affirmed.

Affirmed.

VAN ORSDEL, *J.* (dissenting):

I am unable to agree with my associates in the conclusions reached in this case.

All the apparatus used by McAfee in conducting his successful experiments, as well as that shown in his application, were constructed and operated essentially as described in Gray's letter of November 5th. A careful reading of this letter, in the light of the conversations and correspondence preceding it, demonstrates that Gray had a clear conception of the means of accomplishing the result. Much is attempted to be made of a sentence of the letter to the effect that—

> the distillates can probably be hydrogenized by passing a catalyzing agent in that part of the vapor line furthest from the fire.

If Gray had added the injunction that when aluminum chloride is used as a catalyst it should be mixed with the oil in the still instead of placed in the vapor line, a fact concededly known to both at the time the letter was written, his disclosure would have been complete. But Gray had not in mind any particular catalyzing agent, since by his direction, a number had been ordered by McAfee with which experiments were to be made.

It must be remembered that the breaking of oil, was old in the art as well as the making of gasoline by condensation. The whole invention here was to construct an apparatus in which condensation would take place at a point productive of the largest percentage of gasoline. In other words, locating a condensation point sufficiently distant from the fire that the temperature would be 350 degrees. Such an apparatus was described in Gray's letter of November 5th. It is the apparatus shown as Gray's Exhibit "A" sketched by McAfee on the witness stand. It shows a reflux or air-cooled condenser with a thermometer located at the top of the condenser to maintain a constant temperature of 350 degrees, all as described in Gray's letter. This is the apparatus shown in Gray's patents in interference, as the applications were originally filed.

McAfee, a learned chemist, but with little or no knowledge of treating oils, was working under the supervision and direction of Gray. All information which he possessed on the subject he had derived in conversation or by correspondence with Gray. Gray in his letter of November 5th, described the apparatus to be used in accomplishing the desired result and advised McAfee as to the method of experimenting with it. It, therefore, results that anything derived from those experiments is the invention of Gray, and not McAfee.

The Examiner of Interferences after a thorough analysis of the testimony, reached a conclusion which in my opinion epitomizes this case:

> From the evidence submitted it is concluded that during the time when the invention in controversy was developed, McAfee was under the immediate supervision of Gray and was responsible to him directly; that Gray disclosed the plan of the invention to McAfee; that what McAfee did in developing the said process was no more than the duty of his position required of him, and was in accordance with the plan outlined and suggested to him by Gray; and that what McAfee did under those conditions inures to Gray under the well established principle of law enumerated and reiterated in the decisions indicated above. (Citing a number of decisions from this court.)

Whatever mistakes Gray may have made in filing his applications are beside the case since McAfee was not an original inventor, and, therefore, in no position to profit by Gray's mistakes. Gray, therefore, should be awarded priority.

ADJUDICATED PATENTS.

(U. S. C. C. A. Mo.) The Ballman patent, No. 1,239,249, for improvement in rectifiers of alternating current, not infringed. *Fore Electrical Mfg. Co.* v. *St. Louis Electrical Works*, 280 Fed. Rep., 49.

(U. S. C. C. A. Mo.) The Eberle patent, No. 1,304,951, for swing, *Held* anticipated. *Eberle* v. *Stix, Baer & Fuller Dry Goods Co.*, 280 Fed. Rep., 117.

(U. S. C. C. A. Ill.) The Fulton patent, No. 907,770, for electric-light switch, *Held* not to disclose invention. *Jesmurun* v. *Peerless Light Co.*, 280 Fed. Rep., 113.

(U. S. C. C. A. Mo.) The Girtanner patent, No. 986,455, claims 1 to 3, for furnace arch, *Held* anticipated. *Laclede-Christy Clay Products Co.* v. *City of St. Louis*, 280 Fed. Rep., 88.

(U. S. D. C. Mich.) The Jay patent, No. 1,132,273, claims 9 and 14, for vacuum-feed tank for automobiles, *Held* valid and infringed. *Jay* v. *Ireland & Matthews Mfg. Co.*, 280 Fed. Rep., 166.

(U. S. C. C. A. N. J.) The Schroder patent, No. 1,007,146, for prepared roofing, *Held* anticipated. *Stuso Laminated Slate Co.* v. *Stowell Mfg. Co.*, 280 Fed. Rep., 107.

Adverse Decisions in Interference.

PATENT NO. 1,277,178.

On June 14, 1922, a decision was rendered that Charles F. Bernhard and Harry I. Bernhard were not the first inventors of the subject matter covered by claims 1, 2, and 3 of their Patent No. 1,277,178, subject, "Lubricating systems for internal-combustion engines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,377,225.

On June 20, 1922, a decision was renderd that Arthur J. Seymour was not the first inventor of the subject matter covered by claim 8 of his Patent No. 1,377,225, subject, "Semiautomatic telephone system," and no appeal having been taken within the time allowed such decision has become final.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 26, 1922.

Paragon Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of the Pabst Corporation, Milwaukee, Wis., the Decatur Brewing Co., 604 Cantrell Street, Decatur, Ill., and the Pabst Brewing Company, 917 Chestnut Street, Milwaukee, Wis., for registrations of trade-marks and trade-mark registered March 5, 1907, No. 61,117, to the Paragon Malt Extract Co., 3553 Third Avenue, New York, N. Y., and a notice of such declaration sent by registered mail to the said Paragon Malt Extract Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Paragon Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

The Rhubaral Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The William S. Merrell Company, of Fifth and Pike Streets, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 2, 1914, No. 97,440, to The Rhubaral Company, of 1151 Market Street, Wheeling, W. Va., and a notice of such declaration sent by registered mail to said The Rhubaral Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Rhubaral Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

Andrew H. Hanford, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Eureka Metal Polish Co. (Inc.), of 1638 North Fairfield Avenue, Chicago, Ill., for registration of a trade-mark and trade-mark registered December 26, 1911, No. 84,627, to Andrew H. Hanford, of 30 Burling Slip, New York, N. Y., and a notice of such declaration sent by registered mail to said Andrew H. Hanford at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Andrew H. Hanford, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

George Schneibel, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Don F. Lauro, of 289 Washington Street, New York, N. Y., for registration of a trade-mark and trade-mark registered September 17, 1901, No. 37,077, to George Schneibel, of 748 South High Street, Columbus, Ohio, and a notice of such declaration sent by registered mail to said George Schneibel at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Schneibel, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 8, 1922.

The Diastatic Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Dimex Malt Extract Co., Inc., 71 Reservoir Avenue, Port Jervis, N. Y., for registration of a trade-mark and trade-mark registered October 20, 1914, No. 100,523, to the Diastatic Malt Extract Co., Room 1006, Hearst Building, Chicago, Ill., and a notice of such declaration sent by registered mail to said Diastatic Malt Extract Co., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Diastatic Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 11, 1922.

The I. C. Hunsicker & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Pittsburgh Dry Goods Company, No. 935 Penn Avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered January 17, 1893, No. 22,342, to The I. C. Hunsicker & Co., Fourth and Washington Streets, Reading, Pa., and a notice of such declaration sent by registered mail to said I. C. Hunsicker & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said I. C. Hunsicker & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 12, 1922.

Rainbow Ale Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Keystone Fruit Products Company, of 106 West Second Street, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered February 26, 1907, No. 60,913, to the Rainbow Ale Company, of 34 Madison Avenue, Atlanta, Ga., and a notice of such declaration sent by registered mail to said Rainbow Ale Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Rainbow Ale Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 13, 1922.

Monte W. Burd, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Marshall Field & Company, of 219 West Adams Street, Chicago, Ill., and Hunter Mfg. & Com. Co., of 58 Worth Street, New York, N. Y., for registration of certain trade-marks and trade-marks registered March 20, 1906, No. 50,537, and February 14, 1905, No. 44,166, to Monte W. Burd, of 631 West Main Street, Louisville, Ky., and a notice of such declaration sent by registered mail to said Monte W. Burd at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Monte W. Burd, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 13, 1922.

Harry Pennington, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of William F. Huff, 1445 West 25th Street, Los Angeles, Calif., for patent and the application of Harry Pennington, 614 Ninth Street, Wichita Falls, Tex., for patent, and a notice of such declaration sent by registered mail to Pennington at his last address of record, 3640 Stratford Avenue, Highland Park, Dallas, Tex., having been returned by the post office undeliverable, notice is hereby given that unless said Pennington, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abele, Joseph B., Philadelphia, Pa. Game. No. 1,421,656; July 4.

Abrams, John M., Brooklyn, N. Y. Screw cap. No. 1,421,885; July 4.

Acland, Edward H., Toronto, Ontario, Canada. Guard for billiard-table pockets. No. 1,421,361; July 4.

Advance Rumely Company. (See Ross, James, assignor.)

Aeolian Company, The. (See Collyer, Louis G., assignor.)

Aktiebolaget Svenska Kullagerfabriken. (See Olsson, Nils J., assignor.)

Aldrich, Alonzo, and A. L. Larson, Beloit, Wis.; said Larson assignor to said Aldrich. Paper-making machine. No. 1,421,752; July 4.

Aldrich, Alonzo, Beloit, Wis. Paper-making machine. No. 1,421,753; July 4.

Aldrich, Alonzo, Beloit, Wis. Paper-making machine. No. 1,421,754; July 4.

Allan, Alexander, Middletown, R. I. Method of and apparatus for raising sunken ships. No. 1,421,887; July 4.

Allan, Hugh L., Ayr, Scotland. Fractionating apparatus. No. 1,421,886; July 4.

Allan, Percy, Montclair, N. J., assignor to A. B. Sands & Son Co., New York, N. Y. Marine closet. No. 1,421,362; July 4.

Alldredge, Francis B., Des Moines, Iowa. Bailer structure. No. 1,421,363; July 4.

Allen, Alfred, Birmingham, England. Pencil and pen clip. No. 1,421,657; July 4.

Allen, Carlton H., assignor of one-half to Great Northern Paper Company, Millinocket, Me. Pulp-thickening machine. No. 1,421,364; July 4.

Allen, William H., Detroit, Mich. Weatherproofing clay. No. 1,421,888; July 4.

Allwork, Robert H., New York, N. Y. Flat-top roll-cover desk. No. 1,421,357; July 4.

Aluminum Company of America. (See Sherwin, Ralph S., assignor.)

American Hardware Corporation, The. (See Hurd, Norman B., assignor.)

American Optical Company. (See Schumacher, Elmer L., assignor.)

American Telephone and Telegraph Company. (See McCurdy, Ralph G., assignor.)

Anderson, E. D., Inc. (See Elder, Earl B., assignor.)

Anderson, Ivan, East Elmhurst, N. Y. Liquid-level gauge. No. 1,421,365; July 4.

Anderson, Peter F., assignor of one-half to P. S. Lound, Prentice, Wis. Wrench. No. 1,421,366; July 4.

Anderson, Ulrich, Wausau, Wis. Cushion tire and rim therefor. No. 1,421,755; July 4.

Anderson, William J., Hyde, England. Showcard, calendar and the like. No. 1,421,367; July 4.

Anthony, George H., Sykesville, Pa. Dirigible headlight for locomotives. No. 1,421,368; July 4.

Apollo Magneto Corporation. (See Fuegel, G., and Schmid, assignors.)

Arcadia Trailer Corporation. (See Collier, Joseph W., assignor.)

Ardo, Joseph, Newhall, W. Va., assignor of one-half to Kalman Horvath, Newhall, W. Va. Submersible flying boat. No. 1,421,369; July 4.

Arnao, Charles, Brooklyn, N. Y. Massage apparatus. No. 1,421,756; July 4.

A/S. Labrador. (See Mejdell, Thor, assignor.)

Ashworth, Thomas, Millersburg, Ohio. Bench and floor clamp. No. 1,421,370; July 4.

Attaway, Sidney C., Thomasville, Ga. Disk plow. No. 1,421,371; July 4.

Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co. Inc., New York, N. Y. Gripper mechanism for envelope-making machines. No. 1,421,889; July 4.

Austin, Frederick C. (See Bager, Frederic E., assignor.)

Austin, Frederick C. (See Bentson, Hans J., assignor.)

Auto Sales and Service Company. (See Penrod, William F., assignor.)

Avery, Thomas J., Albia, Iowa. Combination scraper, charger, and tamper. No. 1,421,358; July 4.

Backhaus, Arthur A. (See Whitaker, M. C., and Backhaus.)

Bacon, Raymond F. (See Davis, H. S., and Bacon.)

Badger, Le Roy H., Oak Park, Ill., assignor to De Remer Blatchford Company, Chicago, Ill. Ladder construction. No. 1,421,372; July 4.

Bager, Frederic E., Kanosha, Wis., assignor to Frederick C. Austin, Chicago, Ill. Liquid-distributor discharge mechanism. No. 1,421,373; July 4.

Bagnell, Robert A., St. Louis, Mo. Trough. No. 1,421,374; July 4.

Baines Engineering Company, The. (See Baines, Henry C., assignor.)

Baines, Henry C., East Cleveland, assignor to The Baines Engineering Company, Canal Dover, Ohio. Transmission. No. 1,421,375; July 4.

Baker, George W., Jacksonville, Fla. Self-leveling stove for ships. No. 1,421,890; July 4.

Baker, Howard H., assignor to United States Fuse Corporation, Buffalo, N. Y. Fuse. No. 1,421,376; July 4.

Baker, Joseph, and Sons Limited. (See Prescott, William E., assignor.)

Baker, Newton D., Secretary of War. (See Milligan, Lowell H., assignor.)

Ball, John P., Chicago, Ill. Sewage purifier. No. 1,421,891; July 4.

Baner, Carl O., San Francisco, Calif. Rotary steam engine. No. 1,421,892; July 4.

Barber Asphalt Company, The. (See Browne, Frank A., assignor.)

Barr, Stevenson E., Tacoma, Wash. Combined thimble and stovepipe holder. No. 1,421,359; July 4.

Barry Company. (See Barry, Thomas F., assignor.)

Barry, Thomas F., assignor to Barry Company, Muscatine, Iowa. Split loose pulley bushing. No. 1,421,377; July 4.

Barta, Otto, New York, N. Y. Sterilizer for instruments and dressings. No. 1,421,893; July 4.

Barth, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,421,378; July 4.

Bartlett, Samuel O., New York, N. Y. Calendar. No. 1,421,379; July 4.

Bastin, L. A., et al. (See Hull, Horace, assignor.)

Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Power transmission and electric braking. No. 1,421,894; July 4.

Bateman, Arthur R., Lynchburg, Va. Aligning instrument for crosshead guide bars. No. 1,421,895; July 4.

Bateman, William H., London, England. Separator employed for the separation of liquids of different density. No. 1,421,658; July 4.

Bauer, John G. (See Roeling, H. W., Williams, and Bauer.)

Baum, Henry, East Cleveland, Ohio. Scraper. No. 1,421,380; July 4.

Baum, J. Safe & Lock Company. (See Freyberg, J., and Wubbolding, assignors.)

Bawtree, Alfred E., Sutton, assignor of one-half to A. S. Legg, Thornton Heath, England. Means for regulating the flow of compressed gases. No. 1,421,381; July 4.

Beard, Richard M., New York, N. Y. Electric-light fixture. No. 1,421,382; July 4.

Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill. Sand gathering and elevating machine. No. 1,421,383; July 4.

Beat, John, et al. (See Chladek, Joseph C., assignor.)

Beat, Roy A., et al. (See Chladek, Joseph C., assignor.)

Beatty, Henry B., Brooklyn, and C. L. Johnson, New York, assignors to Laplante & Dunklin Printing Company, New York, N. Y. Display container. No. 1,421,384; July 4.

Beecken, Charles, New York, N. Y. Rope clamp. No. 1,421,385; July 4.

Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension for vehicles. No. 1,421,758; July 4.

Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension. No. 1,421,759; July 4.

Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension for vehicles. No. 1,421,760; July 4.

Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Power-transmitting mechanism. No. 1,421,761; July 4.

Bell, John E., Brooklyn, N. Y. Utilizing waste heat gases of cement kilns. No. 1,421,386; July 4.

Benedict, John W., Grand Ledge, Mich. Flour feeder. No. 1,421,896; July 4.

Beneke & Knapf Manufacturing Company. (See Rayfield, Charles L., assignor.)
Benoit, Joseph F., Sanford, Me. Wire motion for looms. No. 1,421,897; July 4.
Bentley, C. M., et al. (See Schaefer, Frank M., assignor.)
Bentson, Hans J., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Self-shifting track. No. 1,421,387; July 4.
Bergman, Lars H., Chicago, Ill. Pulverized-fuel furnace. No. 1,421,898; July 4.
Bianchi y Reche, Fernando, Madrid, Spain. Office desk. No. 1,421,564; July 4.
Biery, Harvey V., Oklahoma, Okla. Rotary photogravure press. No. 1,421,360; July 4.
Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, Transformer. No. 1,421,899; July 4.
Becker, Walter S., assignor to Little Falls Fibre Company, Little Falls, N. Y. Lapping machine. No. 1,421,650; July 4.
Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Motor vehicle. No. 1,421,757; July 4.
Bippart, Achill, East Orange, N. J. Jewelry coupling. No. 1,421,388; July 4.
Birket, William E., Peoria, Ill. Sound recording and reproducing machine. No. 1,422,022; July 4.
Bischof, Bernhard, Geneva, Switzerland. Device for preventing the penetration of air into centrifugal pumps. No. 1,421,389; July 4.
Blackburn, Thomas B., et al. (See Sykes, George, assignor.)
Blake, Eli J., Buffalo, N. Y., assignor to Gould Coupler Company. Governor. No. 1,421,660; July 4.
Blake, Eli J., Buffalo, N. Y., assignor to Hall Switch & Signal Co. Train control system. No. 1,421,762; July 4.
Blangey, Louis. (See Römer, A., and Blangey.)
Boe, Edd, assignor of one-fourth to I. D. Kretser, Clearbrook, Minn., one-fourth to D. W. McNabb, Winnipeg, Canada, and one-fourth to E. A. Haiseth, Clearbrook, Minn. Thrashing machine. No. 1,422,023; July 4.
Bogdanoff, Paul G., Battle Creek, Mich. Split lubricating bearing for shafts, etc. No. 1,421,661; July 4.
Bosque, José V., and P. Giró y Casañas, Habana, Cuba. Speed-indicating device. No. 1,421,390; July 4.
Bossert, Charles P., assignor to Pfister & Vogel Leather Co., Milwaukee, Wis. Machine for treating hides and skins. No. 1,421,662; July 4.
Boureau, Désiré V., Detroit, Mich. Snubber. No. 1,421,900; July 4.
Bower, Chester A., Castor, Alberta, Canada. Display rack for phonograph disks. No. 1,421,391; July 4.
Bowler, Frank W., Chicago, Ill. Combination comb case. No. 1,421,392; July 4.
Bowman, A. M. (See Sturm, E. J., and Surnson, assignors.)
Boyd, James S., Spray, N. C. Register. No. 1,422,024; July 4.
Boykin, Herbert C. (See Ritchie, O. N., and Boykin.)
Boyle, Louis M., Los Angeles, Calif. Camp stove. No. 1,421,393; July 4.
Boyuls, Cecil H., Louisville, Ky. Shirt bosom and body machine. (Reissue.) No. 15,395; July 4.
Brackney, William S., Elizabethton, Tenn. Film holder. No. 1,422,029; July 4.
Breuker & Kessler Company. (See Kessler, Harry C., assignor.)
Broel, Louis G., Leichardt, near Sydney, New South Wales, Australia. Handling kapok. No. 1,421,663; July 4.
Brogden, Alvey L., Abbeville, S. C. Dirigible headlight. No. 1,420,025; July 4.
Brothers, Eli, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,421,394; July 4.
Brotsch, Frederick A., Jr., Rochester, N. Y. Pavement. No. 1,421,901; July 4.
Brown, Charles S., Bethel, Me. Feed wheel for spool machines. No. 1,421,395; July 4.
Brown Company. (See Brown, O. B., Moore, Parker, and Martinson, assignors.)
Brown, George R., Bondi, near Sydney, New South Wales, Australia, assignor to Electrostatic Separation Company, Limited, Sydney, New South Wales, Australia. Process and apparatus for electrostatic separation of finely-divided discrete material. No. 1,422,026; July 4.
Brown, John. (See Myer, B., and Brown.)
Brown, John H., Spaulnaw Creek, Okla. Heating system. No. 1,421,902; July 4.
Brown, Orton B., H. K. Moore, and H. Parker, Berlin, N. H., and H. M. Martinson, La Tuque, Quebec, Canada, assignors to Brown Company, Portland, Me. Method of and apparatus for washing pulp. No. 1,421,664; July 4.
Brown, Robert J., assignor of one-half to J. F. Walden, Merryville, La. Oil-well drill bit. No. 1,421,396; July 4.
Browne, Frank A., Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Tandem roller. No. 1,421,665; July 4.
Bruck, William A., Pearl River, N. Y. Fowl cleaner. No. 1,421,397; July 4.
Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
Bryon, William J., New York, N. Y. Door closer and check. No. 1,421,666; July 4.
Buberl, Carl, Detroit, Mich. Apparatus for indicating porosity. No. 1,421,903; July 4.
Bucher, William W., Chicago, Ill., assignor, by mesne assignments, to Kohler Company, Kohler, Wis. Automatic electric generating unit. No. 1,422,027; July 4.
Buckham, George T. (See Dawson, A. T., and Buckham.)
Budd, Edward G., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Making wheel disks. No. 1,421,667; July 4.
Budd Wheel Company. (See Budd, Edward G., assignor.)
Buedingen, William L., Milwaukee, Wis. Box-tray support. No. 1,422,028; July 4.
Buehle, Erich, San Francisco, and E. C. Hutchinson, Oakland, assignors to Pelton Water Wheel Co., San Francisco, Calif. Safety control for hydraulic pipe lines. No. 1,421,904; July 4.
Burchess, Charles L., assignor of one-half to H. M. Dirks, Lincoln, Nebr. Christmas-tree support. No. 1,421,398; July 4.
Burgess Battery Company. (See Burgess, Charles F., assignor.)
Burgess, Charles F., assignor to Burgess Battery Company, Madison, Wis. Battery handlamp. No. 1,421,399; July 4.
Burns, Frank L., Three Rivers, Mich. Vehicle top curtain. No. 1,421,400; July 4.
Burnstine, Abraham, Washington, D. C. Second-hand-setting mechanism for watches. No. 1,421,668; July 4.
Busse, Edwin G. (See Williams, C. H., and Busse.)
Byers, Benjiman O., assignor of one-half to W. St. John, Cleveland, Ohio. Auto lock. No. 1,421,401; July 4.
Cade, Enos B., Portland, Oreg. Meter. No. 1,421,905; July 4.
Cadman, Addi B., Beloit, assignor to Warner Manufacturing Company, South Beloit, Wis. Trailer truck. No. 1,421,402; July 4.
Caldwell, Warren A., Oskaloosa, Iowa. Grain crib. No. 1,421,763; July 4.
Calef, Heman A., Portland, Oreg. Comforter or wadded quilt. No. 1,421,906; July 4.
Calhoun, John W., Chester, Pa. Meter-box cover. No. 1,421,669; July 4.
Callais, Julian C., St. Louis, Mo. Amusement device. No. 1,421,907; July 4.
Campbell, Charles S., New Haven, and W. H. Day, East Haven, assignors to Index Visible, Inc., New Haven, Conn. Index or file. No. 1,421,670; July 4.
Campbell, Sarah W. (See Linden, Alfred R., assignor.)
Caps, Arthur W. (See Hawley, J. E., and Caps.)
Capstan Glass Company. (See Kucera, Pater, assignor.)
Carlson, Gustaf, assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Switchboard signal. No. 1,421,403; July 4.
Carmichael, Duncan, Ancoats, Manchester, England. Acetylene-gas-lighting plant. No. 1,422,030; July 4.
Cartier, Charles E., et al. (See Putney, William W., assignor.)
Cattol, Louis C., Hurley, Wis. Gearless transmission mechanism. No. 1,421,908; July 4.
Caulkins, Theodore P., assignor to E. T. Wray, Chicago, Ill. Drilling machine. No. 1,422,031; July 4.
Chambers, Charles E., Wichita, Kans. Milk skimmer. No. 1,421,909; July 4.
Chapman, Frank, Brooklyn, N. Y. Amusement device. No. 1,422,032; July 4.
Chemical Construction Company. (See Hechenbleikner, I., and Oliver, assignors.)
Chemical Foundation, Inc., The. (See Goldschmidt, H., and Müller, assignors.)
Chemical Foundation, Inc., The. (See Lobeck, Oskar, assignor.)
Chemical Foundation, Inc., The. (See Löw-Beer, Oscar, assignor.)
Chemical Foundation, Inc., The. (See Minck, Paul H., assignor.)
Chemical Foundation, Inc., The. (See Röhm, Otto, assignor.)
Chemical Foundation, Inc., The. (See Römer, A., and Blangey, assignors.)
Chemical Foundation, Inc., The. (See Stuer, B. C., and Grob, assignors.)
Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Motor for talking machines. No. 1,421,404; July 4.
Cheney Talking Machine Company. (See Cheney, Forest, assignor.)
Chernikeeff, Basil, London, England. Ship's log. No. 1,421,405; July 4.
Chester Machine Co. (See Augustine, Addison E., assignor.)
Chicago Automatic Conveyor Co. (See Shaw, Arthur L., assignor.)
Chicago Railway Equipment Company. (See Williams, C. H., and Busee, assignors.)
Chladek, Joseph C., assignor of one-fourth to R. A. Beat and one-fourth to J. Beat, Mount Horeb, Wis. Dual rotary snowplow. No. 1,421,671; July 4.
Christmas, Allen J., Rayville, La. Lamp. No. 1,421,406; July 4.
Cichon, Max, assignor to V. M. Cichon, Chicago, Ill. Emergency brake, antiskidding, and antitheft device. No. 1,421,910; July 4.
Cichon, Virginia M. (See Cichon, Max, assignor.)

Clark, Warren H., West Burlington, N. Y. Bail. No. 1,421,407; July 4.
Clarke, William E., Buffalo, N. Y. Deep-sea sounder. No. 1,421,672; July 4.
Claus, Emil L., Milwaukee, Wis. Gas cock and jet plug therefor. No. 1,422,033; July 4.
Clymer, Earl H. (See Dinning, T. W., and Clymer.)
Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Can-capping tool. No. 1,421,673; July 4.
Cochrane, Sanders V., Bridgetown, Tex. Band cutter. No. 1,421,764; July 4.
Cockrell, William D. (See Sharp, A. H., and Cockrell.)
Cohen, Abraham B., Far Rockaway, N. Y. Tooth-cleaning device. No. 1,421,911; July 4.
Cohen, Alice H., executrix. (See Cohen, Stanley A.)
Cohen, Harry. (See Wolfe, Daniel D., assignor.)
Cohen, Solomon. (See Shirk, A. J., and Cohen.)
Cohen, Stanley A., deceased, by A. H. Cohen, executrix, New York, assignor to The New York Consolidated Card Company, Long Island City, N. Y. Plating machine. No. 1,421,912; July 4.
Colburn, Glen I., Geneva, N. Y. Nursery label. No. 1,421,674; July 4.
Coleman, George D., deceased, Buffalo, N. Y., by N. S. Coleman, executrix, Revere, Mass. Antifouling composition. No. 1,421,914; July 4.
Coleman, Nellie S., executrix. (See Coleman, George D.)
Collier, Joseph W., assignor to Arcadia Trailer Corporation, Newark, N. Y. Vehicle. No. 1,422,034; July 4.
Collins, Lester W., St. Paul, Minn. Refrigerator car. No. 1,421,913; July 4.
Collyer, Louis G., Upper Montclair, N. J., assignor to The Aeolian Company. Adjustable connection for actuating arms. No. 1,421,408; July 4.
Columbia Graphophone Manufacturing Company. (See Hinckley, Frank C., assignor.)
Colven, James M., Yonkers, N. Y., and A. Lowy, Newark, N. J., assignors to New York Engineering Company. Soot blower. No. 1,421,675; July 4.
Concentrators Limited. (See Ondra, Frank, assignor.)
Conrader, Rudolph, Erie, Pa. Pumping apparatus. No. 1,421,409; July 4.
Cook, Charles L., Louisville, Ky. Grinder. No. 1,422,035; July 4.
Cook, Stanley S. (See Parsons, C. A., and Cook.)
Cooke, Frank V., Detroit, Mich. Vehicle spring. No. 1,421,410; July 4.
Cooke, James H., Hartford, Conn. Chain. No. 1,421,915; July 4.
Corbitt, Lester J., Detroit, Mich. Indicator lock. No. 1,421,411; July 4.
Cory, Harvey, and O. D. Gray, Chicago, Ill. Friction lining. No. 1,421,412; July 4.
Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Photographic-printing machine. No. 1,421,413; July 4.
Craig, Charles F., San Francisco, Calif., assignor to Craig Golfmeter Co., Wilmington, Del. Captive-ball practice device. No. 1,421,414; July 4.
Craig Golfmeter Co. (See Craig, Charles F., assignor.)
Craig, Louis B., Davenport, Iowa. Saddler's chest. No. 1,421,916; July 4.
Crane Company. (See Lindberg, Sam J., assignor.)
Crane, Joshua, et al., trustees. (See Waterhouse, Harold D., assignor.)
Crane, Walter S., et al., trustees. (See Waterhouse, Harold D., assignor.)
Crowley, Joseph P., and C. A. Rowley, assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for producing sheet glass. No. 1,422,036; July 4.
Crucet, Joseph M., New York, N. Y. Lamp shade. No. 1,421,415; July 4.
Cunningham, Emry L., Sikeston, Mo. Faucet valve. No. 1,421,765; July 4.
Curry, Robert, New York, N. Y. Resilient tire. No. 1,421,917; July 4.
Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Bearing for steam turbines. No. 1,421,918; July 4.
Daniel, Edward W., Cleveland, Ohio. Wire-rope socket. No. 1,421,676; July 4.
Davidson, Alexander H., Colma, and S. Sundelius, San Francisco, Calif. Cremation furnace. No. 1,421,919; July 4.
Davis, Harold S., and R. F. Bacon, Pittsburgh, Pa., assignors to Texas Gulf Sulfur Company, Bay City, Tex. Process and apparatus for melting sulphur. No. 1,421,416; July 4.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,422,037; July 4.
Day, David T., Washington, D. C. Treatment of hydrocarbon oils. No. 1,422,038; July 4.
Day, William H. (See Campbell, C. S., and Day.)
Dean, Charles L., assignor to Stearns-Roger Manufacturing Company, Denver, Colo. Drum for drying pulp and the like. No. 1,422,039; July 4.
Deegan, Daniel J., Youngstown, Ohio. Perforator for printing presses. No. 1,421,417; July 4.
Delco-Light Company. (See Kellholtz, Lester S., assignor.)
De Launty, Reuben H., Chicago, Ill. Trailer-steering device. No. 1,422,040; July 4.
De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
De Minico, Frank, assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Printing machine. No. 1,421,920; July 4.
Denmire, Harold A., assignor of one-half to The General Tire and Rubber Company, Akron, Ohio. Collapsible tire core. No. 1,421,418; July 4.
De Remer Blatchford Company. (See Badger, Le Roy H., assignor.)
Dersom, John J., Columbus, Ohio. Mechanical stoker. No. 1,421,419; July 4.
Dery, Theodore J., Windsor, Ontario, Canada. Pressure-retaining dust cap for pneumatic-tire valves. No. 1,421,420; July 4.
Detroit Sheet Metal Works. (See Ehmka, William C., assignor.)
Di Le Compte, Onesime H., assignor to Universal Car and Hose Coupler Company, Oklahoma, Okla. Car-coupling knuckle. No. 1,421,421; July 4.
Dinning, Thomas W., and E. H. Clymer, Renton, Wash. Vehicle sled. No. 1,422,041; July 4.
Dirks, H. M. (See Burchess, Charles L., assignor.)
Doerr, Carl F., Yonkers, N. Y. Rotary glass cutter. No. 1,421,921; July 4.
Donat, Joseph L., Chicago, Ill. Antiskid device. No. 1,421,922; July 4.
Donnelly, John R., Fairfield, Me. Game board. No. 1,422,042; July 4.
Douros, Peter. (See Scarborough, Donald S., assignor.)
D. P. Company. (See Gamage, Harry C., assignor.)
Dunning, Parker, Bloomfield, N. J., assignor to General Electric Company. Starting compensator. No. 1,421,923; July 4.
Drake, Thomas J., Sadieville, Ky. Gate. No. 1,421,422; July 4.
Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Removable false head for metallic containers. No. 1,422,043; July 4.
Draper, Isaac S., Sullivan, Ind. Voting booth. No. 1,421,423; July 4.
Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)
Dufour, George H., Oak Park, assignor to Marshall Field & Company, Chicago, Ill. Finger guard for printing presses. No. 1,421,424; July 4.
Duncan, Wayne A., Chicago, Ill. Steam cooker. No. 1,421,425; July 4.
Dunning, William F., Washington, D. C. Loose-leaf binder or file. No. 1,421,677; July 4.
Eastman Kodak Company. (See Eberlin, L. W., and Sheppard, assignors.)
Eastman Kodak Company. (See Von Bramer, Harold, assignor.)
Eaton, Melvin C., et al. (See McFarland, William M., assignor.)
Eaton, Warren E., et al. (See McFarland, William M., assignor.)
Eaton, William S., Sag Harbor, N. Y. Etching or like machine. No. 1,421,426; July 4.
Eaton, William S., Sag Harbor, N. Y. Etching or like machine. No. 1,421,427; July 4.
Eberlin, Leon W., and S. E. Sheppard, assignors to Eastman Kodak Company, Rochester, N. Y. Light-diffusing medium and making the same. No. 1,421,924; July 4.
Ebert, Rudolph G., Portland, Oreg. Game board and game. No. 1,421,678; July 4.
Eckelmann, Luis E. (See Ferguson, G. E., and Eckelmann.)
Eckelmann, Luis E., New York, N. Y., assignor to Pyrene Manufacturing Company. Fire-extinguishing solution. No. 1,421,428; July 4.
Economic Steel Rack Company. (See Warnock, Amos W., assignor.)
Edwards, Henry J., Elyria, assignor to The Willys-Overland Company, Toledo, Ohio. Rotary pump. No. 1,421,766; July 4.
Edwards, Herbert A., London, England. Mount for artificial teeth. No. 1,422,044; July 4.
Edwards, William, Schenectady, N. Y., assignor to General Electric Company. Packing for mercury dashpots. No. 1,421,767; July 4.
Egbert, Albert, and E. Holmes, Toledo, Ohio. King bolt. No. 1,421,768; July 4.
Ehmka, William C., assignor to Detroit Sheet Metal Works, Detroit, Mich. Air-circulating system for industrial ovens. No. 1,421,429; July 4.
Ellersen, From C., Jersey City, N. J. Pie-making machine. No. 1,421,430; July 4.
Elder, Earl B., assignor to E. D. Anderson, Inc., New York, N. Y. Automatic packaging equipment. No. 1,421,925; July 4.
Elder, Earl B., assignor to E. D. Anderson, Inc., New York, N. Y. Automatic weighing mechanism. No. 1,421,926; July 4.
Electric Controller Company. (See Goldberg, Arthur M., assignor.)
Electric Fruit Marking Co. (See Neuenschwander, Lewis, assignor.)
Electrostatic Separation Company. (See Brown, George R., assignor.)
Elliott, Percy M., Chicago, Ill. Car-door top guide. No. 1,421,431; July 4.

Embanks, Fred, assignor to Anastazya Koszyczarek, Cleveland, Ohio. Combined muffler and deodorizer for explosive engines. No. 1,421,432; July 4.

Empfield, Berton C. (See Siemsen, Jurgen, assignor.)

Epps, Frank A., assignor to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing system. No. 1,421,433; July 4.

Erickson, Julius, assignor to J. B. La Pierre, Chicago, Ill. Rim for steering wheels. No. 1,421,434; July 4.

Ethier, Raymond F. (See Pendergast, G., and Ethier.)

Eureka Tackle Block Company, The. (See Flynn, John H., Jr., assignor.)

Fauchon-Villeplee, André L. O., Paris, France. Electric apparatus for propelling projectiles. No. 1,421,435; July 4.

Faurot, Henry, Jr., assignor to Western Felt Works, Chicago, Ill. Window-mounting device. No. 1,421,927; July 4.

Federal Electric Company. (See Mars, Thomas H., assignor.)

Federal Products Company. (See Coates, Frederick, assignor.)

Ferguson, George E., and L. E. Eckelmann, New York, N. Y., assignors to Pyrene Manufacturing Company. Fire-extinguishing agent. No. 1,421,436; July 4.

Fernald, Burton J., et al. (See McFarland, William M., assignor.)

Fernández, Venerando, Habana, Cuba. Automobile guard. No. 1,421,437; July 4.

Ferris, Floyd A., Dallas, Tex. Order-filling counter. No. 1,421,679; July 4.

Field, Oscar S., Roselle, N. J., assignor to Hall Switch & Signal Co. Three-position operating mechanism. No. 1,421,769; July 4.

Fifield, Albert F., Newark, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Stitch-forming mechanism for chain-stitch sewing machines. No. 1,421,438; July 4.

Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Operating mechanism for the doors of self-discharging receptacles. No. 1,421,439; July 4.

Fisher, James B., assignor to Waukesha Motor Company, Waukesha, Wis. Suction intake for pumps. No. 1,421,440; July 4.

Fisk Rubber Company, The. (See Fording, William G., assignor.)

Fitzgerald, Jeremiah C., Kilbourn, Wis. Drill. No. 1,421,928; July 4.

Flaherty, Michael H., Philadelphia, Pa. Lock-sealed envelope. No. 1,422,045; July 4.

Flauder, Alfred J. (See Weidlich, L., and Flauder.)

Flinn, Francis J., Brooklyn, N. Y. Shim. No. 1,421,441; July 4.

Floreskul, Gabriel, Toronto, Ontario, Canada. Combination table. No. 1,421,929; July 4.

Flynn, John H., Jr., assignor to The Eureka Tackle Block Company, Cincinnati, Ohio. Tackle hook. No. 1,421,442; July 4.

Foamite Firefoam Company. (See Epps, Frank A., assignor.)

Fogel, Abraham, Montreal, Quebec, Canada. Hat box. No. 1,421,443; July 4.

Folsom, Thomas C., Tampa, Fla. Railway switch. No. 1,421,444; July 4.

Ford, Campbell, San Francisco, Calif. Apparatus for indicating the amount of water in automobile radiators. No. 1,421,930; July 4.

Fording, William G., Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Forming tires. No. 1,422,046; July 4.

Forsberg, Peter W., Schenectady, N. Y., assignor to General Electric Company. Electric braking. No. 1,421,931; July 4.

Foster, John C., New York, N. Y. Spring-operated motor. No. 1,421,932; July 4.

Fränkel, Arwed, Berlin, Germany. Coke-quenching receptacle. No. 1,421,445; July 4.

Freyberg, Joseph, and L. F. Wubbolding, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio. Safety-deposit construction. No. 1,421,770; July 4.

Freyberg, Joseph, and L. F. Wubbolding, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio. Vault front and door construction. No. 1,421,771; July 4.

Freeman, Dudley, Roxbury, Mass. Garment. No. 1,421,446; July 4.

Fried. Krupp Aktiengesellschaft. (See Barth, Karl, assignor.)

Fried. Krupp Aktiengesellschaft. (See Finckh, Fritz, assignor.)

Fried. Krupp Aktiengesellschaft. (See Immand, Gerhard, assignor.)

Fried. Krupp Aktiengesellschaft. (See Kolbe, W., and Fritzen, assignors.)

Frinzi, Antonio, Easton, Pa. Switch plate. No. 1,421,447; July 4.

Fritsche, John, Philadelphia, Pa. Liquid-vending machine. No. 1,421,680; July 4.

Fritz, Lewis, Chicago, Ill. Picture frame. No. 1,421,448; July 4.

Fritzen, Johannes. (See Kolbe, W., and Fritzen.)

Fry, Conrad D. (See Mansell, H. J., and Fry.)

Fuegel, Gottlob, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Lubricating device. No. 1,421,681; July 4.

Fulda, Edward, New York, N. Y. Clip device for reels. No. 1,421,933; July 4.

Gamage, Harry C., New York, N. Y., assignor to D. P. Company. Dustguard. No. 1,421,449; July 4.

Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for manipulating flexible articles. No. 1,421,450; July 4.

Garagnani, Frank, Herrin, Ill. Railway-track indicator. No. 1,422,047; July 4.

Garberding, Angelo F., Goodland, Minn. Belt. No 1,421,451; July 4.

Gardner, John P., Soldiers Home, Calif. Rail fastener. No. 1,421,682; July 4.

Garvey, Richard, and T. J. Miner, New York, N. Y. Captive aeroplane. No. 1,421,683; July 4.

Gary, William P., Totowa Borough, N. J. Aeroplane construction. No. 1,421,934; July 4.

Gates, De Witt C. (See McConney, Robert B., assignor.)

General Electric Company. (See Batchelder, Asa F., assignor.)

General Electric Company. (See Dunning, Parker, assignor.)

General Electric Company. (See Edwards, William, assignor.)

General Electric Company. (See Forsberg, Peter W., assignor.)

General Electric Company. (See Junggren, Oscar, assignor.)

General Electric Company. (See Macloskie, George, assignor.)

General Electric Company. (See Pritchard, Franklin H., assignor.)

General Electric Company. (See Stevens, Harry M., assignor.)

General Motors Corporation. (See Sturt, Alfred T., assignor.)

General Tire and Rubber Company, The. (See Denmire, Harold A., assignor.)

Geraghty, John P., Jersey City, N. J. Locking device for automobiles. No. 1,421,684; July 4.

Gerosa, Carl N., Augusta, Ga. Mud hook. No. 1,421,452; July 4.

Gilbert, Walker B., Lynchburg, Va. Hoop-stretching device. No. 1,421,935; July 4.

Gilby, Frank R., Detroit, Mich. Wrench. No. 1,421,936; July 4.

Giles, Harvey, Brooklyn, assignor to A. Ward, New York, N. Y. Coin-controlled vending machine. No. 1,421,453; July 4.

Giró y Casañas, Pantaléon. (See Bosque, J. V., and Giró y Casañas.)

Glessner, Charles E., Portland, Oreg. Tank and closure. No. 1,421,454; July 4.

Glessner, Charles E., Portland, Oreg. Vacuum container. No. 1,421,685; July 4.

Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)

Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)

Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Hinge joint. No. 1,422,048; July 4.

Goodyear Tire & Rubber Company, The. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale, assignors.)

Goldberg, Arthur M., assignor to Electric Controller Company, Inc., Indianapolis, Ind. Electric water heater. No. 1,421,937; July 4.

Goldblatt, Charles I., Brooklyn, N. Y. Window-operating device. No. 1,421,938; July 4.

Goldschmidt, Hans, and K. Müller, Essen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Zinc alloy. No. 1,421,686; July 4.

Gould Coupler Company. (See Blake, Ell J., assignor.)

Gould, George M., Madison, S. Dak. Trap. No. 1,422,049; July 4.

Gray, Alexander. (See Moore, F., and Gray.)

Gray, Orrin D. (See Cory, H., and Gray.)

Great Northern Paper Company. (See Allen, Carlton H., assignor.)

Greenberg, David S., Warren Point, N. J. Automobile wheel. No. 1,422,050; July 4.

Green, Charles A., and H. F. Schuh, assignors to The C. F. Pease Company, Chicago, Ill. Ruling pen. No. 1,421,455; July 4.

Green, Daries O., Toledo, Ohio. Kitchenette cabinet. No. 1,421,456; July 4.

Gregg, Louis D., Hackensack, N. J. Rail fastening. No. 1,421,457; July 4.

Gregg, William H. (See Hachmann, Frederick, assignor.)

Gregory, George W., London, England. Apparatus for chopping foodstuffs. No. 1,421,458; July 4.

Griswold, George G., Jr. (See Sheridan, G. E., and Griswold.)

Gritzmacher, Henry F., Le Sueur, Minn. Snapping roll. No. 1,421,459; July 4.

Grob, Walter. (See Stuer, B. C., and Grob.)

Guillemet, François L., San Francisco, Calif. Propeller. No. 1,421,460; July 4.

Hachalachtl, Michael, assignor of one-fourth to G. L. Livingston and one-fourth to A. Okum, New York, N. Y. Air heater. No. 1,421,939; July 4.

Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Manifold sales book and cover therefor. No. 1,421,461; July 4.

Hall, C. M. Lamp Company. (See Watson, Harvey L., assignor.)

Hall, Charles G., Akron, Ohio. Washing machine. No. 1,421,462; July 4.

Hall, Furney C., Hartsfield, Ga. Cotton chopper. No. 1,422,051; July 4.

Hall Switch & Signal Co. (See Blake, Ell J., assignor.)

Hall Switch & Signal Co. (See Field, Oscar S., assignor.)

Haleeth, Edwin A., et al. (See Hoe, Edd, assignor.)

Hamachek, Frank, Kewaunee, Wis. Green-pea viner. No. 1,421,772; July 4.

Hamilton, Alexander M., Toronto, Ontario, Canada. Transmission-lever-locking device. No. 1,421,463; July 4.

Hamilton, William L., Bangor, Mich. Automatic pressure-operated switch. No. 1,421,940; July 4.

Hans, Pierre, Brussels, Belgium. Keyboard for musical instruments. No. 1,421,464; July 4.

Hansen, Marinius, Brooklyn, N. Y. Gauge for eyeglass mountings. No. 1,421,465; July 4.

Hanson, Harry C., Minneapolis, Minn. Wall attachment. No. 1,422,052; July 4.

Hanson, James R., and J. R. Shepherd, Anderson, S. C. Ring-rail brace for spinning machines. No. 1,421,466; July 4.

Hanson, Oscar J., Fargo, N. Dak. Typewriting-instruction machine. No. 1,422,053; July 4.

Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Milking-machine system. No. 1,421,773; July 4.

Harden, Albert S., Newark, N. J. Wind-shield attachment. No. 1,421,467; July 4.

Harder, Harry M., assignor of one-half to W. F. Leschen, St. Louis, Mo. Pressure gauge. No. 1,421,774; July 4.

Harrington, William F., assignor to The Willys-Overland Company, Toledo, Ohio. Headlight-controlling mechanism. No. 1,421,775; July 4.

Hartford-Fairmont Company. (See Mulholland, Vergil, assignor.)

Haumerson, Anton F., assignor to Pounder Harrow Company, Fort Atkinson, Wis. Combined merry-go-round and teeter board. No. 1,421,468; July 4.

Hauptmeyer, Friedrich, Essen, Germany. Material for artificial internal members of the human body. No. 1,421,776; July 4.

Hawley, Joel E., Kansas City, Mo., and A. W. Cope, Topeka, Kans., assignors of one-fourth to W. J. Riley, Kansas City, Mo. Dispensing device. No. 1,421,777; July 4.

Hayes, Alva J., Corydon, Iowa. Door hanger. No. 1,421,941; July 4.

Haynes, George P., Brooklyn, N. Y. Valve. No. 1,421,687; July 4.

Healy, Maurice J., West Hoboken, N. J. Boiler. No. 1,421,778; July 4.

Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating acids. No. 1,421,688; July 4.

Heerling, W., New York, N. Y. Foldable chair or the like. No. 1,421,779; July 4.

Heide, William A., Detroit, Mich. Carburetor. No. 1,422,054; July 4.

Heil, Julius P., Milwaukee, Wis. Fluid hoist. No. 1,421,469; July 4.

Hellsing, Karl G. F., assignor to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Forced-lubrication apparatus provided with pumps. No. 1,421,470; July 4.

Henker, Otto, assignor to the Firm of Carl Zeiss, Jena, Germany. Machine for grinding beveled rim surfaces on spectacle glasses. No. 1,422,055; July 4.

Hercules Carburetor Company. (See Leahy, Herbert V., assignor.)

Heskett, Walter P., Castlecliff, New Zealand. Metal compound powder and production of the same. No. 1,421,471; July 4.

Hinckley, Frank C., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Correction device. No. 1,421,472; July 4.

Hinson, John, Montreal, Quebec, Canada. Journal-box cooler. No. 1,421,473; July 4.

Hirshfield, Morris, Brooklyn, N. Y. Blank for slippers. No. 1,421,474; July 4.

Hoffman, George F. (See Latsch, Otto, assignor.)

Hoffman, Joseph, Camden, N. J. Safety latch for steering controllers. No. 1,421,475; July 4.

Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Ribbon mechanism for typewriters. No. 1,421,780; July 4.

Holder, Edward P. (See Morgan, H. W., and Holder.)

Holland, Edward M., et al. (See Putney, William W., assignor.)

Holland, George R., Naugatuck, Conn. Window-shade fixture. No. 1,422,056; July 4.

Holmes, Edward. (See Egbert, A., and Holmes.)

Holmes, Edward. (See Thompson, F. H., and Holmes.)

Holmes, Edward, Toledo, Ohio. Wire tie. No. 1,421,781; July 4.

Holmes, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Decking apparatus for vehicles. No. 1,421,782; July 4.

Holmes, George A., Newton Center, Mass., assignor to United States Fastener Company. Stud and socket fastener. No. 1,421,476; July 4.

Holsberg, George A., San Francisco, Calif. Windshield sunshade. No. 1,421,942; July 4.

Horvath, Kalman. (See Ardo, Joseph, assignor.)

Hosch, Greene C., and G. B. Kyle, assignors to The Measuregraph Company, St. Louis, Mo. Cloth-measuring and cost-computing machine. No. 1,421,943; July 4.

Hooper, Charles L., Rochester, N. Y., assignor to Vacuum Oil Company, New York, N. Y. Apparatus for casing cans. No. 1,422,057; July 4.

Hope, John T., Kansas City, Mo. Fan. No. 1,421,477; July 4.

Hope, Ole J., Chicago, Ill. Scraper attachment for paint-brushes. No. 1,421,478; July 4.

Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)

Hopkins, Sydney B., Summit, N. J., and C. Jelinek, Richmond Hill, N. Y. Stereotyper's and printer's tool. No. 1,421,689; July 4.

Hovanec, Valent, Ambridge, Pa. Tool holder. No. 1,422,058; July 4.

Hover, Lee D., Chicago, Ill. Embroidery needle. No. 1,421,479; July 4.

Howard, Edward G., Cincinnati, Ohio. Rubber garter. No. 1,421,690; July 4.

Howard, Travis H. B., Como, Miss. Lamp extinguisher. No. 1,422,059; July 4.

Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper mechanism for sewing machines. No. 1,422,060; July 4.

Hughes, William C., New Haven, Conn. Clothes drier. No. 1,422,061; July 4.

Hull, Horace, assignor of one-half to L. A. Bastin and one-half to J. H. Post, Denver, Colo. Cooker. No. 1,421,480; July 4.

Humiston, Frederick L., New Haven, Conn., assignor to Winchester Repeating Arms Company. Spotlight. No. 1,421,944; July 4.

Humphrey, Dwight E. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale.)

Hunley, Dempsie R., Cofoco, W. Va. Combination trolley-wire stretcher and splice. No. 1,421,481; July 4.

Hunt, Arthur H., Virgil, Kans. Self-adjusting clutch. No. 1,422,062; July 4.

Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Door-holding device. No. 1,421,691; July 4.

Hussong Dyeing Machine Company. (See Trickett, Walter S., assignor.)

Hutchins, Rufus J., Middletown, Ohio. Water heater. No. 1,421,692; July 4.

Hutchinson, Ely C. (See Buehle, E., and Hutchinson.)

Immand, Gerhard, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,421,482; July 4.

Index Visible, Inc. (See Campbell, C. S., and Day, assignors.)

Inman Manufacturing Company. (See Joslin, Frank M., assignor.)

International Paper Company. (See Murray, James M., assignor.)

International Scale Company. (See Osgood, Louis A., assignor.)

International Time Recording Company of New York, The. (See Odell, George W., assignor.)

Isco Chemical Company. (See Ladd, E. T., and Speiden, assignors.)

Isenberg, Rudolf A., San Francisco, Calif. Elevator controller. No. 1,421,945; July 4.

Iserson, Abraham S. (See Shirk, A. J., and Cohen, assignors.)

J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag. (See Hellsing, Karl G. F., assignor.)

Jacques, George W., Stratford, Conn., assignor to The Singer Manufacturing Company. Back gauge. No. 1,421,483; July 4.

Jelinek, Charles. (See Hopkins, S. B., and Jelinek.)

Jennings, Arthur B., New York, N. Y. Air compressor. No. 1,421,484; July 4.

Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Automatic take-up device. No. 1,421,783; July 4.

Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Automatic take-up device. No. 1,421,784; July 4.

Joel, Alfred, & Co. (See Mickley, Karl, assignor.)

Johnson, Arthur A., Washington, D. C., assignor to Underwood Typewriter Company. Typewriting machine. No. 1,421,946; July 4.

Johnson, Clare L. (See Beatty, H. B., and Johnson.)

Johnson, John O. Q., Modesto, Calif. Motor-starting device. No. 1,422,063; July 4.

Jones, Albert F., Salem, Mass. Automatic counter-forming machine. No. 1,421,947; July 4.

Jones, David A., and C. R. Martin, Bartlesville, Okla. Filter. No. 1,421,948; July 4.

Jones, Emerald E., Chicago, Ill. Cone belt shifter. No. 1,421,485; July 4.

Jones, Erwin R., Columbus, Ohio. Operating devices for valve grinders. No. 1,421,486; July 4.

Jones, Omar G., Philadelphia, Pa. Vehicle fender. No. 1,421,693; July 4.

Jones, Samuel P., Columbia, S. C. Lubricator. No. 1,421,487; July 4.

Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for removing surplus material. No. 1,421,488; July 4.

Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Strip-feeding mechanism. No. 1,421,489; July 4.

Juergens, Edward F., Middletown, Ohio, assignor to J. H. Wilson, Washington, D. C. Toy. No. 1,421,694; July 4.

Jung, Ernst, St. Louis, Mo. Permanent air gauge for pneumatic tires. No. 1,421,490; July 4.

Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Vibration damper. No. 1,421,785; July 4.

Kallman, Otto S., Minneapolis, Minn. Tap and reamer chuck. No. 1,421,940; July 4.

Kammerer, Friedrich, Pforzheim, Germany. Producing hollow wire for the manufacturing of chains and the like. No. 1,421,491; July 4.

Kamper, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Tube-welding machine. No. 1,421,786; July 4.

Kane, Patrick, Chicago, Ill. Sanitary garbage can. No. 1,422,064; July 4.

Kane, Thomas H., assignor to Truscon Steel Company, Youngstown, Ohio. Metal building construction. No. 1,421,950; July 4.

Kapferer, Henry, Billancourt, France. Trailer. No. 1,421,492; July 4.

Kappes, Karl F., Mannheim, assignor to the Firm Luftfahrzeug-bau Schutte-Lanz, Mannheim-Rheinau, Germany. Electromagnet for momentarily releasable locking devices with electric locking of the releasing means. No. 1,421,951; July 4.

Kee, Robert H., and W. K. Munson, Los Angeles, Calif., assignors to Mun-Kee Products Corporation. Resilient stamp pad. No. 1,421,952; July 4.

Keilholtz, Lester S., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Signaling device. No. 1,421,953; July 4.

Keller, John L., Charleston, W. Va. Molding composition. No. 1,421,954; July 4.

Kellogg, Leroy D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition and lighting switch. No. 1,421,493; July 4.

Kellogg Switchboard and Supply Company. (See Kellogg, Leroy D., assignor.)

Kemp, Charles B., New York, N. Y. Golf-bag ball receptacle. No. 1,421,955; July 4.

Kessler, Harry C., Warrington, assignor to Breuker & Kessler Company, Philadelphia, Pa. Paper box. No. 1,421,494; July 4.

Kestler, Herman J., New York, N. Y. Collapsible mold for concrete structures. No. 1,421,956; July 4.

Kimball, Mayo D. (See Thomas, F. W., and Kimball.)

Kincaid, Wilbert F., assignor of one-half to A. H. Mason, Gauley Bridge, W. Va. Automobile body. No. 1,421,788; July 4.

Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,421,695; July 4.

Kininmonth, Colin P., assignor to Henry Simon Limited, Manchester, England. Elevator. No. 1,421,787; July 4.

Kirby, James B., Cleveland, Ohio. Suction sweeper. No. 1,421,957; July 4.

Kirby, James B., Cleveland, Ohio. Suction sweeper. No. 1,421,958; July 4.

Klavon, Joseph L., Jackson, Mich. Automobile spark indicator. No. 1,421,495; July 4.

Klewanech, John, Royalton, Ill. Mine-fire-fighting apparatus. No. 1,421,496; July 4.

Kloeffler, Royce G., Manhattan, Kans. Electrical heating unit. No. 1,421,959; July 4.

Knowles, Harford C., Elmira, N. Y., assignor, by mesne assignments, to The Willys-Morrow Company, Inc. Bearing. No. 1,421,789; July 4.

Koch, Hans, Dietikon, Switzerland. Device for dampening the warp on looms, etc. No. 1,421,498; July 4.

Koch, Hans, and H. Müller, Dietikon, Switzerland. Reel frame. No. 1,421,497; July 4.

Koehler, Howard R., Monaca, Pa. Liquid-measuring apparatus. No. 1,421,499; July 4.

Kohler Company. (See Bucher, William W., assignor.)

Kolbe, Werner, and J. Fritzen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Axle-recording device for railways. No. 1,421,500; July 4.

Kops Bros. (See Weber, William G., assignor.)

Koszyczarek, Anastazya. (See Embanks, Fred, assignor.)

Koukos, John. (See Vafiades, G., and Koukos.)

Kraft, Henry P., Ridgewood, and M. C. Schweinert, West Hoboken, N. J. Gauge. No. 1,421,501; July 4.

Krahe, Walter F., Brooklyn, N. Y. Amusement apparatus. No. 1,421,960; July 4.

Kretser, Irvin D., et al. (See Boe, Edd, assignor.)

Kruse, John F., Indianapolis, Ind. Bath-cabinet vaporizer. No. 1,421,502; July 4.

Kucera, Peter, assignor to Capstan Glass Company, Connellsville, Pa. Pitcher, tumbler, and package. No. 1,421,696; July 4.

Kuhne, William H., Waterbury, Conn. Automatic advertising device. No. 1,421,961; July 4.

Kyle, George B. (See Hosch, G. C., and Kyle.)

Ladd, Edward T., and E. C. Speiden, assignors to Isco Chemical Company, Inc., Niagara Falls, N. Y. Bleaching powder. No. 1,421,503; July 4.

Lahey, Dennis E., Louisville, Ky. Railway-switch filler. No. 1,421,962; July 4.

Lahey, Dennis E., Louisville, Ky. Railway switch. No. 1,421,963; July 4.

Langford, Robert H., Springfield, Tenn. Shipping device. No. 1,421,964; July 4.

Langmeier, William, St. Louis, Mo. Indicator and caliper gauge for cane mills. No. 1,421,504; July 4.

La Pierre, Julian B. (See Erickson, Julius, assignor.)

Laplante & Dunklin Printing Company. (See Beatty, H. B., and Johnson, assignors.)

Larson, Albert L. (See Aldrich, A., and Larson.)

Lash, Eber M. (See Wheeler, John A., assignor.)

Latsch, Otto, Oxford, Ala., assignor of one-half to G. F. Hoffman, Philadelphia, Pa. High slip-draft apparatus for spinning cotton rovings. No. 1,421,965; July 4.

LaVigne, George J., New Haven, Conn. Tire-chain retainer. No. 1,421,966; July 4.

Leah, Howard, Wellington, New Zealand. Brake release spring mechanism for tram and the like cars. No. 1,421,697; July 4.

Leahy, Herbert V., assignor to Hercules Carburetor Company, Los Angeles, Calif. Carburetor. No. 1,421,790; July 4.

Lebherz, Harry J., Frederick, Md. Hand crowner for applying crown caps to bottles. No. 1,421,698; July 4.

Lees, Frederick, Philadelphia, Pa. Burial box. No. 1,421,967; July 4.

Legg, Arthur S. (See Bawtree, Alfred E., assignor.)

Lemoine, Louis R., Philadelphia, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Drying molds. No. 1,421,791; July 4.

Leonard, Chester S., Lansdowne, Pa. Date-depitting machine. No. 1,421,505; July 4.

Leschen, William F. (See Harder, Harry E., assignor.)

Lewis, John H., Rhinelander, Wis. Farming machine. No. 1,421,968; July 4.

Lewis, Joseph R. (See Straka, John, assignor.)

Libbey-Owens Sheet Glass Company, The. (See Crowley, J. P., and Rowley, assignors.)

Limpert, Alexander S., Pittsburgh, Pa. Headlight. No. 1,421,506; July 4.

Lindberg, Sam J., assignor to Crane Company, Chicago, Ill. Lapping metal pipe. No. 1,421,507; July 4.

Linden, Alfred R., Dorchester, assignor of one-half to S. W. Campbell, Newton, Mass. Combination ratchet tool. No. 1,421,792; July 4.

Lindsay, William, Chicago, Ill. Aeroplane propeller. No. 1,421,699; July 4.

Linley, Phillip H. (See Linley, Robert W., and P. B.)

Linley, Robert W. and P. B., Fairfield, Conn. Priming valve. No. 1,421,793; July 4.

Linn, Robert, Chicago, Ill. Resilient wheel for vehicles. No. 1,421,508; July 4.

Little Falls Fibre Company. (See Becker, Walter S., assignor.)

Livingston, George L., et al. (See Hachalachti, Michael, assignor.)

Lobeck, Oskar, Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Means for stiffening textile fabrics. No. 1,421,700; July 4.

Lockwood, John A., Fillmore, N. Y. Illuminating apparatus. No. 1,421,509; July 4.

Loeb, Rudolf, Jenkintown, Pa. Means for cutting fabrics. No. 1,421,969; July 4.

Lorillard, P. Company. (See Ritchie, O. N., and Boykin, assignors.)

Loth, Gustave M., Chicago, Ill. Violin bow. No. 1,421,510; July 4.

Lound, Peter S. (See Anderson, Peter F., assignor.)

Löw-Beer, Oscar, Frankfort-on-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation Inc. Tanning substance for tanning animal hides and preparing the same. No. 1,421,701; July 4.

Lowy, Arthur. (See Colven, J. M., and Lowy.)

Luftfahrzeug-bau Schutte-Lanz. (See Kappes, Karl F., assignor.)

Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stamping machine. No. 1,421,511; July 4.

McCartney, James B., assignor of one-fourth to E. F. Richman and one-fourth to C. J. Richman, Muscatine, Iowa. Paint composition. No. 1,421,970; July 4.

McCarty, Bert, Tampa, Fla. Hydrochemical cleaner. No. 1,421,971; July 4.

McCollough, James H., Jr., San Jose, Calif. Automobile seat. (Reissue.) No. 15,396; July 4.

McConnell, Henry C., Grand River, Iowa. Train-operated gate. No. 1,421,512; July 4.

McConney, Robert B., assignor of sixteen and two-thirds one-hundredths to D. C. Gates, Denver, Colo. Automatically-operating hydropneumatic water-lifting apparatus. No. 1,421,513; July 4.

McCurdy, Ralph G., Cresskill, N. J., assignor to American Telephone and Telegraph Company. Testing apparatus. No. 1,421,702; July 4.

McFarland, William M., Norwich, N. Y., assignor of one-fifth to W. R. Turner, one-fifth to W. E. Eaton, one-fifth to M. C. Eaton, and one-fifth to B. J. Fernald. Trouser supporter. No. 1,421,514; July 4.

McGann, William H., Minneapolis, Minn. Grain-door-forcing device. (Reissue.) No. 15,397; July 4.

McGill, Daniel, assignor to Volos Manufacture Limited, London, England. Treatment of fibrous materials. No. 1,421,703; July 4.

McKnight, Richard, Chicago, Ill. Filing device. No. 1,421,515; July 4.

McLaughlin, Robert, assignor of one-half to A. G. Patton, Monmouth, Ill. Farm-gate hinge. No. 1,421,794; July 4.

McNabb, Dustin W., et al. (See Boe, Edd, assignor.)

Macklin, Otto H., assignor to The Miller Rubber Company, Akron, Ohio. Apparatus for producing thin rubber sheets. No. 1,421,795; July 4.

Mackovitch, Joseph F., Conway, assignor of one-third to M. Mailing, Pittsburgh, Pa. Burglar alarm. No. 1,421,972; July 4.

Macloskie, George, Erie, Pa., assignor to General Electric Company. Safety car-control equipment. No. 1,421,796; July 4.

Maeshima, Shintaro, Tokyo, Japan. Magnetic healing apparatus. No. 1,421,516; July 4.

Mailing, Mandaline. (See Mackovitch, Joseph F., assignor.)

Malcamp, Philip, New Orleans, La. Automatic alarm mechanism for pasteurizing milk. No. 1,421,517; July 4.

Malloy, Charles L., Coaldale, Pa. Sadiron light. No. 1,421,973; July 4.

Maloney, Edward J., Long Island City, assignor to A. Wolf, New York, N. Y. Presser-foot attachment for sewing machines. No. 1,421,797; July 4.

Mandel, William, Minneapolis, Minn. Storm-sash fastener. No. 1,421,798; July 4.

Manifold Impressions Corporation. (See Cossitt, Malcolm L., assignor.)

Mansell, Henry J., Oakland, and C. D. Fry, Alameda, Calif. Change-speed-gear mechanism. No. 1,421,799; July 4.

Marckworth, Otto S., Columbus, Ohio. Producing non-shatterable glass. No. 1,421,974; July 4.

Maris, Claude A., Terre Haute, Ind. Adjustable thrust bearing. No. 1,421,518; July 4.

Mars, Thomas H., assignor to Federal Electric Company, Chicago, Ill. Gearing. No. 1,421,800; July 4.

Marsh, Edward A., Newton, assignor to Waltham Watch Company, Waltham, Mass. Repeater timepiece. No. 1,421,801; July 4.

Marshall Field & Company. (See Dufour, George H., assignor.)

Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston packing. No. 1,421,802; July 4.

Martin, Clarence R. (See Jones, D. A., and Martin.)

Martin, James V., Elyria, Ohio. Tractor biplane. No. 1,421,803; July 4.

Martinson, Herman M. (See Brown, O. B., Moore, Parker, and Martinson.)

Mason, Albert H. (See Kincaid, Wilbert F., assignor.)

Masson, Charles T., Wood Bay, Manitoba, Canada. Watch pocket for overalls, working shirts, and the like. No. 1,421,519; July 4.

Mattern, George A., Berkeley, Calif. Bathing suit. No. 1,421,704; July 4.

Mattson, Julius G., Heretaunga, New Zealand. Saw. No. 1,421,520; July 4.

Maxwell, George E., New Ulysses, Kans. Automatic clutch release. No. 1,421,521; July 4.

Mayer, George F., Chicago, Ill. Lock. No. 1,421,522; July 4.

Measuregraph Company, The. (See Hosch, G. C., and Kyle, assignors.)

Measuregraph Company. (See Turner, Douglas, assignor.)

Mechau, Emil, Rastatt, Germany. Kinematographic apparatus. No. 1,421,523; July 4.

Meeker, John A., Potsdam, N. Y. Butter-fat gauge. No. 1,421,524; July 4.

Meisel, Charles A., assignor to Meisel Press Manufacturing Company, Boston, Mass. Numbering head. No. 1,421,525; July 4.

Meisel Press Manufacturing Company. (See Meisel, Charles A., assignor.)

Mejdell, Thor, assignor to A/S Labrador, Christiania, Norway. Removing iron from solutions containing aluminium. No. 1,421,804; July 4.

Melish, Thomas G., Cincinnati, Ohio. Holder for jars. No. 1,421,705; July 4.

Melown, George E., McKeesport, Pa. Lubricating device for rolling mills. No. 1,421,805; July 4.

Melvin, William O., Lakewood, Ohio. Display attachment for counters. No. 1,421,806; July 4.

Metzger, Fritz L., Avalon, Pa. Spacing bar. No. 1,421,807; July 4.

Meyers, J Nicholas, Philadelphia, Pa. Tracing device. No. 1,421,975; July 4.

Michell, Anthony G. M., Melbourne, Victoria, Australia, assignor to Michell Bearings Limited, Westminster, England. Method and apparatus for pumping fluids. No. 1,421,976; July 4.

Michell Bearings Limited. (See Michell, Anthony G. M., assignor.)

Mickley, Karl, assignor to the Firm Alfred Jöel & Co., Zurich, Switzerland. Shock absorber. No. 1,421,977; July 4.

Miethe, Carl, Chicago, Ill. Vehicle spring wheel. No. 1,421,808; July 4.

Miller, Charles C., Fort Wayne, Ind. Folding box. No. 1,421,526; July 4.

Miller, E. A. (See Müller, Eduard F., assignor.)

Miller, Joseph B., Indianapolis, Ind. Fire-extinguishing composition and preparing same. No. 1,421,527; July 4.

Miller, Louis A., assignor to Winchester Repeating Arms Company, New Haven, Conn. Flashlight. No. 1,421,528; July 4.

Miller Rubber Company, The. (See Macklin, Otto H., assignor.)

Millhouse, Ross, Los Angeles, Calif. Cleaning device. No. 1,421,529; July 4.

Milligan, Lowell H., New Kensington, Pa., assignor to Newton D. Baker, Secretary of War. Making arsenic trichloride. No. 1,421,978; July 4.

Mills, Ronald V., Sandy Spring, Md. Excluding water from oil and gas wells. No. 1,421,706; July 4.

Minck, Paul H., Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Preparing a permanent and spinnable solution in the cupric ammonia process. No. 1,421,707; July 4.

Miner, Theodore J. (See Garvey, R., and Miner.)

Miner, William H. (See O'Connor, John F., assignor.)

Mining and Metallurgical Process Proprietary Limited. (See Rigg, Gilbert, assignor.)

Mischke, Paul, East Rutherford, N. J. Ash sifter. No. 1,421,809; July 4.

Mitchell, Howard S., Homer, La. Fire extinguisher. No. 1,421,979; July 4.

Moore, Frank, and A. Gray, Toronto, Ontario, Canada. Carburetor attachment. No. 1,421,530; July 4.

Moore, Hugh K. (See Brown, O. B., Moore, Parker, and Martinson.)

Moras, Ferdinand, Sommerfield, Germany. Double-knee siphon. No. 1,421,531; July 4.

Morgan, Henry W., and E. P. Holder, Greenville, S. C. Tight band pulley. No. 1,421,708; July 4.

Morse, Frederick L., Framingham, Mass. Protecting shoe lasts. No. 1,421,980; July 4.

Muck, John, Milwaukee, Wis. Roller skate. No. 1,421,532; July 4.

Mulholland, Vergil, West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Closure for molten-glass outlets. No. 1,421,810; July 4.

Müller, Eduard F., Leipsig-Lindenau, Germany, assignor to E. A. Miller, Millvale Extension, Pa. Liquid-coating machine. No. 1,421,811; July 4.

Müller, Gottfried, Sumiswald, Switzerland. Frame saw. No. 1,421,533; July 4.

Müller, Gottwalt, Berlin-Weissensee, Germany. Worm drive for electric cars especially mine locomotives. No. 1,421,534; July 4.

Müller, Hans. (See Koch, H., and Müller.)

Müller, Karl. (See Goldschmidt, H., and Müller.)

Mun-Kee Products Corporation. (See Kee, R. H., and Munson, assignors.)

Munson, Whitney K. (See Kee, R. H., and Munson.)

Murdock, Van Quinton, Columbus, Ohio. Pencil grip. No. 1,421,535; July 4.

Murray, James M., Berlin, N. H., assignor to International Paper Company. Method of and apparatus for feeding pulp to the forming wires of paper-making machines. No. 1,421,981; July 4.

Myer, Bert, and J. Brown, Elkhart, Kans. Wrench. No. 1,421,536; July 4.

National Sales Machine Company. (See Reith, George C., assignor.)

Needham, Moses W., Waco, Tex. Soft-rubber tire filler. No. 1,421,537; July 4.

Neff, Harry D., Cambridge, assignor to Re-Filit Broom Company, Boston, Mass. Broom-bundle-making machine. No. 1,421,812; July 4.

Nelson, Frank C., Clarksburg, W. Va. Clothes hanger. No. 1,421,709; July 4.

Nesbit, Arthur F., Wilkinsburg, Pa. Direct-current transformer. No. 1,421,538; July 4.

Neuenschwander, Lewis, Los Angeles, assignor to Electric Fruit Marking Co., San Francisco, Calif. Electric fruit-marking machine. No. 1,421,539; July 4.

New York Consolidated Card Company, The. (See Cohen, Stanley A., assignor.)

New York Engineering Company. (See Colven, J. M., and Lowy, assignors.)

Noll, George L., Madison, N. J. Antifriction skid. No. 1,421,540; July 4.

Nolty, Lewis, Lancaster, Pa. Folding table. No. 1,421,541; July 4.

Nonnemacher, Clyde S., Wenonah, N. J. Strap fastener. No. 1,421,813; July 4.

Nonnemacher, Clyde S., Wenonah, N. J. Strap fastener. No. 1,421,814; July 4.

Nordfors, Conrad, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Printing couple. No. 1,421,982; July 4.

Nordfors, Conrad, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for counting out and marking printed products. No. 1,421,983; July 4.

Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Loom-temple thread cutter. No. 1,421,815; July 4.

Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Machine for making lined envelopes. No. 1,421,816; July 4.

Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Creasing mechanism. No. 1,421,817; July 4.

Oakley, Clifford H., Trenton, N. J. Rubber mat. No. 1,421,818; July 4.

Ochsner, Emil, Sutton, Nebr. Radiator. No. 1,421,542; July 4.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock absorber. No. 1,421,819; July 4.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock absorber. No. 1,421,820; July 4.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,421,821; July 4.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,421,822; July 4.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake. No. 1,421,823; July 4.

Odell, George W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Time recorder. No. 1,421,824; July 4.

Okum, Abraham, et al. (See Hachalachti, Michael, assignor.)

O'Leary, William, Belvedere College, Dublin, Ireland. Clock. (Reissue.) No. 15,398; July 4.

Oliver, Thomas C. (See Hechenbleikner, I., and Oliver.)

Olson, Charle, Lafayette, Minn. Dishwashing machine. No. 1,421,543; July 4.

Olsson, Nils J., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Means for automatically cutting off the feed motion of machine tools. No. 1,421,544; July 4.

Ondra, Frank, assignor to Concentrators Limited, Johannesburg, Transvaal, South Africa. Concentrating pulverulent material. No. 1,421,984; July 4.

Orussa, Lorence, Roanoke, Ill. Toy. No. 1,421,985; July 4.

Osborn, Alden E., New York, N. Y. Motor vehicle. No. 1,421,545; July 4.

Osgood, Louis A., assignor to International Scale Company, Dayton, Ohio. Thermostat for portable scales. No. 1,421,836; July 4.

Owen, Richard E., Washington, D. C. Mounting for outboard motors. No. 1,421,710; July 4.

Parker, Howard. (See Brown, O. B., Moore, Parker, and Martinson.)

Parkin, David O., Venice, Calif. Radiator. No. 1,421,546; July 4.

Parks, Harry S., Philadelphia, Pa., assignor to Pneumercator Company, New York, N. Y. Distant boiler-water-level indicator. No. 1,421,711; July 4.

Parslow, Earl E., San Diego, Calif. Valve-stem lubricator. No. 1,421,826; July 4.

Parsons Appliance Company. (See Parsons, Jesse, assignor.)

Parsons, Charles A., and S. S. Cook; said Cook assignor to said Parsons; Wallsend-on-Tyne, England. Steam superheater. No. 1,421,712; July 4.

Parsons, Jesse, assignor to Parsons Appliance Company, Seattle, Wash. Window-operating means. No. 1,421,547; July 4.

Pattison, William L., Rosedale, Kans. Floor grating. No. 1,421,827; July 4.

Patton, A. G. (See McLaughlin, Robert, assignor.)

Pease, C. F., Company, The. (See Green, C. A., and Schuh, assignors.)

Peebles, Thomas A., Pittsburgh, Pa. Furnace. (Reissue.) No. 15,399; July 4.

Peerless Motor Car Company, The. (See Strickland, William R., assignor.)

Pelton Water Wheel Co. (See Buehle, E., and Hutchinson, assignors.)

Pendergast, George, and R. F. Ethier, Milwaukee, Wis. Fastener for license plates. No. 1,421,548; July 4.

Penrod, William F., Blanchester, assignor of two-thirds to Auto Sales and Service Company, Cincinnati, Ohio. Lighting system for automobiles. No. 1,421,549; July 4.

Peters, Carl, St. Louis, Mo. Aeroplane. No. 1,421,550; July 4.

Peters Machine and Manufacturing Company, The. (See Thiemer, William H., assignor.)

Petrasek, Charles J., New York, N. Y. Self-oiling rotary cutter. No. 1,421,713; July 4.

Pfister & Vogel Leather Co. (See Bossert, Charles P., assignor.)

Phillips, Arthur T. (See Theed, W. H. A., and Phillips.)

Phillips, Elmer V., Philadelphia, Pa. Wall construction. No. 1,421,986; July 4.

Phillips, James F. A., Trenton, N. J. Spring lubricator. No. 1,421,551; July 4.

Piper, Walter F. (See Beardsley, E. O., and Piper.)

Pittsburgh Transformer Company. (See Ringay, Robert V., assignor.)

Pletscher, Fritz, Lucerne, Switzerland. Rear brake for motor and other cycles. No. 1,421,552; July 4.

Pneumercator Company. (See Parks, Harry S., assignor.)

Pneumercator Company. (See Stancliffe, Cecil W., assignor.)

Pohl, Charles, Los Angeles, Calif. Gun sight. No. 1,421,553; July 4.

Pohl, Charles, Los Angeles, Calif. Auxiliary inlet device for internal-combustion engines. No. 1,421,554; July 4.

Pollard-Alling Manufacturing Company. (See De Minico, Frank, assignor.)

Post, Clifford W. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale.)

Post, John H., et al. (See Hull, Horace, assignor.)

Post, Nathaniel B., Chicago, Ill. Pop-corn mold. No. 1,421,555; July 4.

Potter & Buffinton Company. (See Weed, Edward L., assignor.)

Potter, Charles F., et al. (See Sykes, George, assignor.)

Pounder Harrow Company. (See Haumerson, Anton F., assignor.)

Powers, Robert E., Montreal, Quebec, Canada. Coupling centering device. No. 1,421,556; July 4.

Pray, Thomas B., assignor to Goodman Manufacturing Company, Chicago, Ill. Support for mining machines. No. 1,421,557; July 4.

Prelmesberger, Alois L., Menasha, Wis. Friction-clutch pulley. No. 1,421,558; July 4.

Prendergast, Edward, St. Louis, Mo. Grading machine. No. 1,421,559; July 4.

Prescott, William E., assignor to J. Baker and Sons Limited, London, England. Machine for breaking cocoa cake or the like. No. 1,421,560; July 4.

Pressure Proof Piston Ring Company. (See Marshall, Lewis C., assignor.)

Pritchard, Franklin H., Schenectady, N. Y., assignor to General Electric Company. Power transmission and electric braking. No. 1,421,828; July 4.

Puc, Vojtěch, Prague-Vinohrady, Bohemia. Sealing device. No. 1,421,714; July 4.

Puc, Vojtěch, Prague-Vinohrady, Bohemia. Mechanism for sorting the socket members of snap fasteners. No. 1,421,715; July 4.

Pugsley, Edwin, New Haven, Conn., assignor to The Winchester Repeating Arms Company. Battery candle. No. 1,421,561; July 4.

Putney, William W., assignor of one-fourth to C. E. Cartier and one-fourth to E. M. Holland, Grand Rapids, Mich. Hoop-forming machine. No. 1,421,829; July 4.

Pyle-National Company, The. (See Dake, Charles W., assignor.)

Pyrene Manufacturing Company. (See Eckelmann, Luis E., assignor.)

Pyrene Manufacturing Company. (See Ferguson, G. E., and Eckelmann, assignors.)

Quinn, Elmer, Philadelphia, Pa. Tool for releasing an air valve from rim of an automobile tire. No. 1,421,987; July 4.

Raftery, William J., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Testing machine. No. 1,421,562; July 4.

Raggio, Dante A., Chicago, Ill. Locking means. No. 1,421,563; July 4.

Randall, Arthur F., Shreveport, La. Automobile storm curtain. No. 1,421,716; July 4.

Rayfield, Charles L., Chicago, Ill., assignor to Beneke & Kropf Manufacturing Company. Thermostatic device for cooling systems of internal-combustion engines. No. 1,421,830; July 4.

Re-Flilt Broom Company. (See Neff, Harry D., assignor.)

Reed, Walter C., Dalton, Mass. Power-transmission apparatus. No. 1,421,565; July 4.

Reese, Reese D., Virginia, Minn. Machine for making springs. No. 1,421,566; July 4.

Reith, George C., Philadelphia, Pa., assignor, by mesne assignments, to National Sales Machine Company, Worcester, Mass. Vending machine and the like. No. 1,421,831; July 4.

Remington Typewriter Company. (See Seib, George A., assignor.)

Renda, Anthony, New York, N. Y. Pan with overflow-alarm device. No. 1,421,717; July 4.

Rhoads, Harry E., assignor to The Willys-Overland Company, Toledo, Ohio. Oil pump. No. 1,421,718; July 4.

Richards, William H., Knoxville, Tenn. Apparatus for casting fillings for teeth. No. 1,421,988; July 4.

Richey, William A., and C. H. Rowles, Akron, Ohio. Gasoline and oil saver. No. 1,421,567; July 4.

Richman, Charles J., et al. (See McCartney, James B., assignor.)

Richman, Evert F., et al. (See McCartney, James B., assignor.)

Rigg, Gilbert, assignor to Mining and Metallurgical Process Proprietary Limited, Melbourne, Victoria, Australia. Blast-roasting apparatus and the like. No. 1,421,989; July 4.

Riley, Ralph J., Portland, Me. Sprocket wheel. No. 1,421,832; July 4.

Riley, William J. (See Hawley, J. E., and Cass, assignors.)

Rindt, Vincent R., Winter, Wis. Signal. No. 1,421,990; July 4.

Riser, Jacob J., Shelbyville, Ind. Apparatus for resetting sound reproducers. No. 1,421,568; July 4.

Ritchie, Oscar N., Hamilton, and H. C. Boykin, Middletown, Ohio, assignors to P. Lorillard Company, New York, N. Y. Article-feeding machine. No. 1,421,569; July 4.

Robb, John F., Cleveland, Ohio. Control mechanism for calculating machines. No. 1,421,719; July 4.

Roberts, Claudius H. M., Washington, D. C. Method of and apparatus for detecting the presence of one gas in another. No. 1,421,720; July 4.

Robinson, Jay G., Chicago, Ill. Door-operating appliance. No. 1,421,721; July 4.

Robinson, Joseph V., Morristown, N. J. Automatic trainpipe connector. (Reissue.) No. 15,400; July 4.

Rod, Albert Edward Day's Bay, Wellington, New Zealand. Game. No. 1,421,570; July 4.

Rodger, John M., Chicago, Ill. Power-operated churn. No. 1,421,571; July 4.

Rodgers, Claude M., and A. W. Wenger, Warsaw, Ind. Fish lure. No. 1,421,991; July 4.

Roeling, Henry W., E. H. Williams, and J. G. Bauer, New Orleans, La. Automatic coin separating and counting device. No. 1,421,992; July 4.

Rofe, Charles A., Marton, New Zealand. Lifting iron for motor cars. No. 1,421,993; July 4.

Rofe, Thomas E., et al. (See Stevenson, Cecil V., assignor.)

Röhm, Otto, Darmstadt, Germany, assignor to The Chemical Foundation, Inc. Tanning with aluminum salts. No. 1,421,723; July 4.

Rohrer, John W., Columbus, Ohio. Driving mechanism for locomotive stokers. No. 1,421,994; July 4.

Römer, Adolf, Stuttgart, and L. Blangey, Mannheim, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Tanning. No. 1,421,722; July 4.

Rosamond, Arthur R., Laramie, Wyo., assignor to D. E. Soden, Kansas. Electric time-switch mechanism. No. 1,421,833; July 4.

Rosenberg, Louis E. (See Spector, B., and Rosenberg.)

Ross, James, assignor to Advance Rumely Company, Laporte, Ind. Differential. No. 1,421,834; July 4.

Rowan, Alfred J., Sault Ste. Marie, Mich. Lubricant-controlling device for automatically controlling the lubricating system of gas engines of automobiles and other motor vehicles. No. 1,421,995; July 4.

Rowles, Clem H. (See Richey, W. A., and Rowles.)

Rowley, Clifford A. (See Crowley, J. P., and Rowley.)

Rugg, Frank D., Greenfield, Mass. Support for ice-cream freezers. No. 1,421,724; July 4.

Running, Tom, Juneau, Alaska. Seine-operating mechanism. No. 1,421,996; July 4.

Russ, George F., Jersey City, N. J. Envelope filling and closing machine. No. 1,421,835; July 4.

Russel, Albert W., assignor to Russel Motor Axle Company, Detroit, Mich. Vehicle axle. No. 1,421,836; July 4.

Russel Motor Axle Company. (See Russel, Albert W., assignor.)

Ryalls, Henry W., Thurmond, W. Va. Valve for gauge cocks. No. 1,421,572; July 4.

Sacks, George P. (See White, George H., assignor.)

Sandquist, John V., Houston, Tex. Link. No. 1,421,997; July 4.

Sands, A. B., & Son Co. (See Allen, Percy, assignor.)

Saunders, Randall W., Brooklyn, N. Y. Attachment plug for oiling systems for internal-combustion engines. No. 1,421,725; July 4.

Saunders, Randall W., Brooklyn, N. Y. Safety steel strap cushion lock. No. 1,421,726; July 4.

Scarborough, Donald S., St. Louis, Mo., assignor to P. Douros, East St. Louis, Ill. Commutator and battery-charging outfit including the same. No. 1,421,998; July 4.

Schaefer-De Lude-Wallace Company, et al. (See Schaefer, Frank M., assignor.)

Schaefer, Frank M., assignor of one-half to C. M. Bentley, Chicago, Ill., and one-half to Schaefer-De Lude-Wallace Company. Vegetable-paring machine. No. 1,421,837; July 4.

Schaefer, Henry H., Weldona, Colo. Gate fastener. No. 1,421,573; July 4.

Schaeffer, Don W., Day on, Ohio. Illuminating mechanism. No. 1,421,838; July 4.

Schafer, William J., Santa Cruz, Calif. Direction indicator. No. 1,421,727; July 4.

Schiffmann, Johannes, Ballenstedt, Germany. Making an indestructible black stamp dye for documents. No. 1,421,728; July 4.

Schiller, Rudolph F., Sun Prairie, Wis. Shoe-string tip. No. 1,421,999; July 4.

Schlosser, Morris, New York, N. Y. Display book. No. 1,421,574; July 4.

Schmick, Henry J., Williamsport, Pa. Cam gearing. No. 1,422,000; July 4.

Schmid, Herman. (See Fuegel, G., and Schmid.)

Schmid Manufacturing Company. (See Seastrom, Wesley E., assignor.)

Schmid, William, Bronson, Mich. Fishline reel. No. 1,421,839; July 4.

Schmidt, Edward F., Chicago, Ill. Game. No. 1,421,575; July 4.

Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Fluid-translating device. No. 1,421,840; July 4.

Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,841; July 4.

Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,842; July 4.

Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,843; July 4.

Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,844; July 4.

Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,845; July 4.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie, Paris, France. Compressed-air recuperator for guns. No. 1,421,576; July 4.

Schofield, Frederick E., Waterford, Conn. Apparatus for aircraft. No. 1,421,846; July 4.

Schopke, Charlie, San Francisco, Calif. Nonglaring attachment for headlights. No. 1,421,847; July 4.

Schuchman, Harry, Little York, Ill. Automobile tire-chain hook. No. 1,421,577; July 4.

Schuh, Henry F. (See Green, C. A., and Schuh.)

Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,421,729; July 4.

Schussler, Joseph, Bethlehem, Pa. Safety revolver holster. No. 1,421,578; July 4.

Schweinert, Maximilian C. (See Kraft, H. P., and Schweinert.)

Scusa, Lino, Phoenix, N. Y. Toilet-paper winder. No. 1,421,730; July 4.

Sealright Co. (See Wright, Wilbur L., assignor.)

Seastrom, Wesley E., assignor to Schmid Manufacturing Company, Dubuque, Iowa. Handle joint. No. 1,421,848; July 4.

Seeberger, Othmar, Brugg, Switzerland. Bobbinet-making machine. No. 1,421,579; July 4.

Seemann, Henry, Hamburg, Germany. Worm for worm gearings. No. 1,421,580; July 4.

Seewald, Joseph, Brooklyn, N. Y. Garment construction. No. 1,421,849; July 4.

Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,421,581; July 4.

Seng, Wendelin P., Chicago, Ill. Lubricating device. No. 1,421,582; July 4.

Seng, Wendelin P., Chicago, Ill. Oiling device. No. 1,421,583; July 4.

Shafer, Homer R., Detroit, Mich. Resilient wheel. No. 1,421,584; July 4.

Sharp, Alonzo H., and W. D. Cockrell, Aldrich, Minn. Chimney cleaner. No. 1,422,001; July 4.

Shaw, Arthur L., Chicago, Ill., assignor to Chicago Automatic Conveyor Co. Conveyer. No. 1,422,002; July 4.

Shawmut Machine Works, Inc. (See Smith, Raymond D., assignor.)

Shearer, Arthur M., Indiana, Pa. Single-line grab-bucket construction. No. 1,422,003; July 4.

Shelton, Harry J., St. Louis, Mo. Grinder and shredder. No. 1,421,731; July 4.

Shepherd, John R. (See Hanson, J. R., and Shepherd.)

Sheppard, Samuel E. (See Eberlin, L. W., and Sheppard.)

Sheridan, Guy E., and G. G. Griswold, Jr., Butte, Mont. Concentration of ores by flotation. No. 1,421,585; July 4.

Sherwin, Ralph S., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa., Obtaining alumina. No. 1,422,004; July 4.

Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Stand and automatic switch for electric irons. No. 1,421,586; July 4.

Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,421,587; July 4.

Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,421,588; July 4.

Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,421,589; July 4.

Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Stand and automobile switch for electric irons. No. 1,421,850; July 4.

Shrieves, Albert, and H. E. Sutton Coldfield, England. Lifting jack. No. 1,421,590; July 4.

Shrieves, Henry E. (See Shrieves, Albert and H. E.)

Shuler, Edwin H., Lansing, and M. C. Shuler, Charlotte, Mich. Gas burner. No. 1,421,591; July 4.

Shuler, Max C. (See Shuler Edwin H. and M. C.)

Siemsen, Jurgen, assignor to B. C. Ensfield, Broken Bow, Nebr. Grain-car door. No. 1,421,592; July 4.

Simon, Henry Limited. (See Kininmouth, Colin P., assignor.)

Sims, Milford R., Saunemin, Ill. Cultivator attachment. No. 1,421,593; July 4.

Singer Manufacturing Company, The. (See Fifield, Albert F., assignor.)

Singer Manufacturing Company, The. (See Jacques, George W., assignor.)

Skarzynski, Frank, Rochester, N. Y. Direction indicator for motor vehicles. No. 1,422,005; July 4.

Skelly, Samuel, Alameda, Calif. Clothes drier. No. 1,421,851; July 4.

Slack, Albert R., San Antonio, Tex. Tool box. No. 1,421,732; July 4.

Sletten, Anton I., Christiania, Norway. Internal-combustion engine. No. 1,421,594; July 4.

Smallwood, Alfred, London, England. Furnace. No. 1,421,852; July 4.

Smith, Charles, Providence, R. I. Easel for florists' use. No. 1,421,595; July 4.
Smith, George L., Washington, D. C. Friction brake. No. 1,422,006; July 4.
Smith, Raymond D., Boston, Mass., assignor to Shawmut Machine Works, Inc. Pull-socket switch. No. 1,421,853; July 4.
Smith, William I., Gary, Ind. Chill. No. 1,421,596; July 4.
Smithe, F. L., Machine Company. (See Novick, Abraham, assignor.)
Smythe, James, Dines, Wyo. Shoe-shining machine. No. 1,421,597; July 4.
Snelling, Walter O., Allentown, Pa. Preparation of halogen compounds. No. 1,421,733; July 4.
Soddy, Frederick, Oxford, England. Apparatus for purifying coal gas. No. 1,422,008; July 4.
Soddy, Frederick, Aberdeen, Scotland. Method of stripping the illuminants from and of purifying coal-gas by means for charcoal. No. 1,422,007; July 4.
Soden, Doris E. (See Rosamond, Arthur R., assignor.)
Sorenson, Sigvard, assignor of one-half to A. Vollegraaf, St. Paul, Minn. Woodworking tool. No. 1,421,599; July 4.
Sorrell, Samuel H., Ashland, Ala. Shaker grate. No. 1,421,598; July 4.
Sparks, William, Jackson, Mich., assignor to Sparks-Withington Company, Cleveland, Ohio. Commutator. No. 1,421,734; July 4.
Sparks-Withington Company. (See Sparks, William, assignor.)
Speck, Clifford P., Oakland, Calif. Making confections. No. 1,421,600; July 4.
Speck, Clifford P., Oakland, Calif. Confection mold. No. 1,421,601; July 4.
Spector, Benjamin, and L. E. Rosenberg, Brooklyn, N. Y. Knitted cap. No. 1,421,602; July 4.
Speiden, Eben C. (See Ladd, E. T., and Speiden.)
Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic apparatus for torpedos. No. 1,421,854; July 4.
Sperry Gyroscope Company, The. (See Sperry, Elmer A., assignor.)
Spiro, Charles, New York, N. Y. Reflex camera. No. 1,421,735; July 4.
Spiro, Charles, New York, N. Y. Curtain camera shutter. No. 1,421,736; July 4.
Stahl, Max, assignor to The Wahl-Henius Research Laboratory, Chicago, Ill. Producing cereal beverages. No. 1,421,737; July 4.
Staley, Joseph H., Columbus, Ind. Arbor press. No. 1,421,738; July 4.
Stancliffe, Cecil W., Toronto, Canada, assignor to Pneumercator Company, New York, N. Y. Manometer. No. 1,421,739; July 4.
Standard Oil Company of California. (See Raftery, William J., assignor.)
Stanton, Howard M., Indianapolis, Ind. Means for supporting signs or similar articles. No. 1,421,603; July 4.
Stearns-Roger Manufacturing Company. (See Dean, Charles L., assignor.)
Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Manufacture of esters. No. 1,421,604; July 4.
Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Manufacturing esters. No. 1,421,605; July 4.
Stevens, Harry M., Schenectady, N. Y., assignor to General Electric Company. Switch mechanism. No. 1,421,740; July 4.
Stevens, M. T., & Sons Company. (See Stone, George, assignor.)
Stevenson, Cecil V., assignor of five-eighths to T. E. Rofe, Sydney, New South Wales, and three-eighths to S. L. Varvel, Wahroonga, near Sydney, New South Wales, Australia. Fuel vaporizing and economizing apparatus. No. 1,421,606; July 4.
Stiel, Carl F., St. Paul, Minn. Refrigerator attachment. No. 1,421,607; July 4.
Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,421,855; July 4.
St. John, William. (See Byers, Benjamin O., assignor.)
Stoddard, James T., Portland, Oreg. Refuse burner. No. 1,421,741; July 4.
Stone, Frank V., et al, trustees. (See Waterhouse, Harold D., assignor.)
Stone, George, assignor of one-half to M. T. Stevens & Sons Company, North Andover, Mass. Drying machine. No. 1,421,856; July 4.
Störe, Johan, Christiania, Norway. Constructing subaqueous concrete structures. No. 1,421,857; July 4.
Straka, John, assignor of one-half to J. R. Lewis, Chicago, Ill. Magazine pencil. No. 1,421,742; July 4.
Strickland, William R., East Cleveland, assignor to The Peerless Motor Car Company, Cleveland, Ohio. Combined spring horn and bumper support. No. 1,421,608; July 4.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Carlson, Gustaf, assignor.)
Stuer, Bernhard C., and W. Grob, Aachen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of product from acetylene. No. 1,421,743; July 4.
Sturm, Earl J., and M. Surnson, assignors of one-third to A. M. Bowman, Houston, Tex. Movable painter's platform. No. 1,421,609; July 4.
Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Driving cleat mechanism for motor-vehicle driving wheels. No. 1,422,009; July 4.
Styli, Harry H., Southbridge, Mass. Eye protector. No. 1,421,744; July 4.
Summit Thread Company. (See Weaver, Lucius E., assignor.)
Sun Motors Corporation. (See Wedig, John H., assignor.)
Sundelius, Severus. (See Davidson, A. H., and Sundelius.)
Surnson, Morris. (See Sturm, E. J., and Surnson.)
Svehla, Martin J., Sutherland, Iowa. Game trap. No. 1,421,610; July 4.
Svehla, Martin J., Sutherland, Iowa. Game trap. No. 1,421,611; July 4.
Sykes, George, San Francisco, assignor of one-half to T. B. Blackburn and one-half to C. F. Potter, Los Angeles County, Calif. Load bracing and ventilating device for vehicles. No. 1,421,612; July 4.
Takamine, Jokichi, Jr. (See Takamine, Jokichi and J., Jr.)
Takamine, Jokichi, New York, N. Y., and Jokichi, Jr., Clifton, N. J. Treating textile and other fabrics, thread, yarn, and the like. No. 1,421,613; July 4.
Taubman, Herman, Sturgeon Bay, Wis. Garment hanger. No. 1,421,614; July 4.
Tauchar, Anton, Dunlo, Pa. Railway track construction. No. 1,422,010; July 4.
Taylor, Jason C., Los Angeles, Calif. Sand delivery device for vehicles. No. 1,421,745; July 4.
Taylor Machinery Company. (See Taylor, Thomas I., assignor.)
Taylor, Thomas I., Newton, assignor to Taylor Machinery Company, Boston, Mass. Water gauge for automobile radiators. No. 1,421,615; July 4.
Texas Gulf Sulfur Company. (See Davis, H. S., and Bacon, assignors.)
Theed, William H. A., South Kensington, and A. T. Phillips, Hammersmith, England. Method of making liners for reenforcing the covers of pneumatic tires. No. 1,421,616; July 4.
Thermokept Products Corporation. (See Willison, Walter W., assignor.)
Thiede, Richard A., Camden, N. J. Ash sifter. No. 1,422,011; July 4.
Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,421,617; July 4.
Thomas, Frank W., and M. D. Kimball, Pasadena, Calif. Vacuum oiling system. No. 1,421,858; July 4.
Thompson, Fred H., and E. Holmes, assignors to The Willys-Overland Company, Toledo, Ohio. Automobile decking. No. 1,421,747; July 4.
Thompson, John D., Rochester, N. Y. Printing frame. No. 1,421,859; July 4.
Thorne, Harold, New York, N. Y. Door-securing device. No. 1,421,746; July 4.
Thu, Martin, Bakersfield, Calif. Crank holder. No. 1,421,860; July 4.
Thurston, Albert, London, England. Strip or sheet metal structure. No. 1,421,618; July 4.
Tisch, George C. L., assignor to Tisch Machine & Tool Works, Elizabeth, N. J. Pin guard. No. 1,421,861; July 4.
Tisch Machine & Tool Works. (See Tisch, George C. L., assignor.)
Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole. No. 1,421,619; July 4.
Trent Process Corporation. (See Trent, Walter E., assignor.)
Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Collecting and purifying minerals. No. 1,421,862; July 4.
Trickett, Walter S., assignor to Hussong Dyeing Machine Company, Groveville, N. J. Yarn rack. No. 1,422,012; July 4.
Truscou Steel Company. (See Kane, Thomas H., assignor.)
Tunnell, Frederic H., Philadelphia, Pa. Apparatus for the extraction of glue, gelatine, and the like. No. 1,421,620; July 4.
Turner, Douglas, assignor to Measuregraph Company, St. Louis, Mo. Lock for notching shears of measuring machines. No. 1,421,863; July 4.
Turner, Hubert S., Washington, D. C. Telephony. No. 1,421,864; July 4.
Turner, Laurence B., Cambridge, England. Thermionic apparatus applicable for wireless telegraphy and other purposes. No. 1,422,013; July 4.
Turner, William B., et al. (See McFarland, William M., assignor.)
U. S. Industrial Alcohol Co. (See Steffens, John A., assignor.)
U. S. Industrial Alcohol Co. (See Whitaker, M. C., and Backhaus, assignors.)
U. S. Industrial Alcohol Co. (See Whitaker, Milton C., assignor.)
Underwood Typewriter Company. (See Johnson, Arthur A., assignor.)
Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)

United Shoe Machinery Corporation. (See Brothers, Eli, assignor.)
United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Lemoine, Louis R., assignor.)
United States Fastener Company. (See Holmes, George A., assignor.)
United States Fuse Corporation. (See Baker, Howard H., assignor.)
Universal Car and Hose Coupler Company. (See di Le Compte, Onesime H., assignor.)
Urquhart, William R., Los Angeles, Calif., C. W. Post, Akron, D. E. Humphrey, Cuyahoga Falls, and C. C. Van Arsdale, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing apparatus. No. 1,422,065; July 4.
Vacuum Oil Company. (See Hooper, Charles L., assignor.)
Vafiades, George, and J. Koukos, New York, N. Y. Fruit cutting and coring device. No. 1,422,066; July 4.
Van Arsdale, Clarence C. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale.)
Van Etten, John C., Portland, Oreg. Toy aeroplane. No. 1,421,621; July 4.
Van Ness, Norman J., Wysox Township, Bradford County, Pa. Strainer for milk cans, pails, and the like. No. 1,421,622; July 4.
Van Westrum, Leonard S., Zorich, Switzerland. Making roads. (Reissue.) No. 15,401; July 4.
Varvel, Sidney L., et al. (See Stevenson, Cecil V., assignor.)
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Flexible shaft and making same. No. 1,421,623; July 4.
Veeder, Curtis H., assignor to The Veeder Manufacturing Co., Hartford, Conn. Tachometer. No. 1,421,865; July 4.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Turnbuckle. No. 1,421,866; July 4.
Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vidaver, Maxwell, New York, N. Y. Machine for sealing and stamping envelopes. No. 1,421,867; July 4.
Volkmere, Paul, Auckland, New Zealand. Sheet-straightening apparatus. No. 1,421,868; July 4.
Vollegraaf, Arie. (See Sorenson, Sigvard, assignor.)
Volos Manufacture Limited. (See McGill, Daniel, assignor.)
Von Bramer, Harold, assignor to Eastman Kodak Company, Rochester, N. Y. Making hydrochinon. No. 1,421,869; July 4.
Von Dieselski, Ernest L. B., New York, N. Y. Locking device for automobile-steering mechanisms. No. 1,421,870; July 4.
Wagner, Christian H., Tiffin, Ohio. Tool. No. 1,421,871; July 4.
Wahl-Henius Research Laboratory, The. (See Stahl, Max, assignor.)
Waits, Spencer C., Pine Bluff, Ark. Safety crank for internal-combustion motors. No. 1,421,624; July 4.
Walden, J. F. (See Brown, Robert J., assignor.)
Waltham Watch Company. (See Marsh, Edward A., assignor.)
Ward, Artemas. (See Giles, Harvey, assignor.)
Ward, Clarence A., Brooklyn, N. Y. Paint and making same. No. 1,421,625; July 4.
Warner Manufacturing Company. (See Cadman, Addi B., assignor.)
Warnock, Amos W., assignor to Economic Steel Rack Company, Everett, Mass. Caster. No. 1,421,626; July 4.
Waterhouse, Harold D., Quincy, Mass., assignor, by mesne assignments, to W. S. Crane, J. Crane, and F. V. Stone, trustees. Primer for internal-combustion engines. No. 1,421,627; July 4.
Watkins, Dwight E., Galesburg, Ill. Sanitary waste basket. No. 1,421,628; July 4.
Watkins, Herbert H., Homer, La. Oil pump. No. 1,421,629; July 4.
Watkins, Maura F., Star Lime Works, Ky. Cultivator. No. 1,421,872; July 4.
Watson, Harvey L., Indianapolis, Ind., assignor, by mesne assignments, to C. M. Hall Lamp Company, Detroit, Mich. Tilting reflector for motor vehicles. No. 1,421,630; July 4.
Watts, Harry M., Shawnee, Okla. Toy aeroplane. No. 1,421,631; July 4.
Waukesha Motor Company. (See Fisher, James B., assignor.)
Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Adjunct for sewing-machine shuttles. No. 1,421,873; July 4.
Weber, William G., Ridgefield Park, N. J., assignor to Kops Bros., New York, N. Y. Clasp. No. 1,421,874; July 4.
Webster, William L., New York, N. Y. Toothbrush. No. 1,421,875; July 4.
Wedig, John H., assignor, by mesne assignments, to Sun Motors Corporation, Granite City, Ill. Internal-combustion engine. No. 1,421,632; July 4.
Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Connecting ring. No. 1,421,876; July 4.
Weidlich Bros. Mfg. Co., The. (See Weidlich, L., and Flauder, assignors.)
Weidlich, Louis, and A. J. Flauder, assignors to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Incense burner and perfumer. No. 1,421,633; July 4.
Weissheier, William, Brooklyn, N. Y. Nursing bottle and nipple protector. No. 1,421,877; July 4.
Weltner, Corliss L., Looneyville, W. Va. Electric motor. No. 1,421,634; July 4.
Wenger, Arthur W. (See Rodgers, C. M., and Wenger.)
Wertenberger, Enos, Laketon, Ind. Tractor. No. 1,421,635; July 4.
Westby, Adolph C., Porter, Minn. Stock waterer. No. 1,421,636; July 4.
Westerfield, Granville G., Indianapolis, Ind. Internal-combustion engine. No. 1,421,878; July 4.
Western Felt Works. (See Faurot, Henry, Jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Schmidt, Henry F., assignor.)
Wheeler, John A., Bloomington, assignor of one-tenth to E. M. Lash, Rialto, Calif. Nut. No. 1,421,638; July 4.
Wheeler, William I., Scottville, Ill. Speed-changing mechanism. No. 1,421,639; July 4.
Whelan, Martin J., Clifton Heights, Pa. Freight car. No. 1,421,637; July 4.
Whitaker, Milton C., New York, N. Y., and A. A. Backhaus, Baltimore, Md., assignors to U. S. Industrial Alcohol Co. Producing ethylene. No. 1,421,640; July 4.
Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Engine fuel. No. 1,421,879; July 4.
White, Frank L., Memphis, Tenn. Cotton compress. No. 1,422,014; July 4.
White, George H., Washington, D. C., assignor to G. P. Sacks, Bradley Hills, Md. Friction drive for milk tanks. No. 1,421,641; July 4.
Whitney, Gilbert C., New York, N. Y. Railway-traffic controlling system. No. 1,421,880; July 4.
Willard, Theodore A., Cleveland Heights, Ohio. Making storage-battery containers. No. 1,421,748; July 4.
Williams, Benjamin S., Nashville, Tenn. Cake or biscuit cutter. No. 1,421,749; July 4.
Williams, Charles H., and E. G. Busse, assignors to Chicago Railway Equipment Company, Chicago, Ill. Brake beam. No. 1,421,881; July 4.
Williams, Edward H. (See Roeling, H. W., Williams, and Bauer.)
Williams, Joseph F., De Funiak Springs, Fla. Crosscut-saw handle. No. 1,422,015; July 4.
Williams, William E., Chicago, Ill. Cast wheel for automobiles. No. 1,421,643; July 4.
Williams, William E., Chicago, Ill. Quick-detachable dust cap for pneumatic tires. No. 1,421,642; July 4.
Willison, Walter W., Hastings, assignor to Thermokept Products Corporation, New York, N. Y. Treating vegetables in preparation for canning. No. 1,421,750; July 4.
Wills, Childe H., Marysville, Mich. Bearing assembly. No. 1,421,644; July 4.
Willys-Morrow Company, The. (See Knowles, Harford C., assignor.)
Willys-Overland Company, The. (See Belden, Edward H., assignor.)
Willys-Overland Company, The. (See Edwards, Henry J., assignor.)
Willys-Overland Company, The. (See Harrington, William F., assignor.)
Willys-Overland Company, The. (See Holmes, Edward, assignor.)
Willys-Overland Company, The. (See Jerdone, Francis, Jr., assignor.)
Willys-Overland Company, The. (See Kamper, Edward, assignor.)
Willys-Overland Company, The. (See Rhoads, Harry E., assignor.)
Willys-Overland Company. (See Thompson, F. H., and Holmes, assignors.)
Wilson, Donald S., Greenwich, Conn. Toilet case. No. 1,421,645; July 4.
Wilson, Joseph H. (See Juergens, Edward F., assignor.)
Wilson, Thomas H., Bramley, Leeds, England. Stamping machine for cutting out articles from sheet metal. (Reissue.) No. 15,402; July 4.
Winans, Henry E., Belleville, Ill. Shell. No. 1,421,882; July 4.
Winchester Repeating Arms Company. (See Humiston, Frederick L., assignor.)
Winchester Repeating Arms Company. (See Miller, Louis A., assignor.)
Winchester Repeating Arms Company, The. (See Pugsley, Edwin, assignor.)
Wix, James A., Goldville, S. C. Loom rock-shaft bearing. No. 1,422,016; July 4.
Wolf, Andrew. (See Maloney, Edward J., assignor.)
Wolfe, Daniel D., assignor of one-half to H. Cohen, Washington, D. C. Shoe-shining parlor. No. 1,421,646; July 4.

Wolfs, Jean F., Newark, N. J. Caster. No. 1,421,647; July 4.
Wolfson, Julius, Philadelphia, Pa. Electrically-operated valve of a gas burner or gas supply. No. 1,421,648; July 4.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Page cut-off device for ink fountains. No. 1,422,017; July 4.
Wood Newspaper Machinery Corporation. (See Nordfors, Conrad, assignor.)
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Wray, Edward T. (See Caulkins, Theodore P., assignor.)
Wright, Charles W. (See Wright, George S. and C. W.)
Wright, George S. and C. W., Philadelphia, Pa. Composition of matter for paving blocks, building blocks, and the like. No. 1,421,751; July 4.
Wright, Wilbur L., assignor to Sealright Co., Inc., Fulton, N. Y. Insulating container and the like. No. 1,421,649; July 4.
Wright, Wilbur L., assignor to Sealright Co., Inc., Fulton, N. Y. Paper-material container and the like. No. 1,422,018; July 4.
Wright, William W., Hollywood, Calif. Map holder. No. 1,421,883; July 4.
Wubbolding, Leo F. (See Freyberg, J., and Wubbolding.)
Wyckoff, David B. (See Wyckoff, Joseph E., assignor.)
Wyckoff, Joseph E., Los Angeles, assignor of one-half to D. B. Wyckoff, Glendale, Calif. Life-saving fender. No. 1,421,650; July 4.
Yohns, Paul, New York, N. Y. Pattern-transfer machine. No. 1,421,884; July 4.
Young, Abraham, Montevideo, Minn. Air-brake pressure retainer. No. 1,421,651; July 4.
Youngquist, John, Chicago, Ill. Phonograph. No. 1,421,652; July 4.
Yunck, John A., South Orange, N. J. Alloy of refractory metals and forming same. No. 1,422,019; July 4.
Zabriskie, Charles C., Highland Park, Mich. Car wheel. No. 1,421,653; July 4.
Zak, John, Bergholz, Ohio. Sash-locking device. No. 1,422,020; July 4.
Zalkind, Philip, New York, N. Y. Glue roll. No. 1,421,654; July 4.
Zels, Frank, Trenton, N. J. Derailing guard. No. 1,422,021; July 4.
Zeiss, Firm of Carl. (See Henkers, Otto, assignor.)
Ziegler, Charles F., Los Angeles, Calif. Sole tracker. No. 1,421,655; July 4.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Adam, Harry C., St. Louis, Mo. Principal central body of a lighting fixture. No. 61,146; July 4.
Adam, Harry C., St. Louis, Mo. Lighting fixture. No. 61,147; July 4.
Berlin, Harry S., assignor to The Victor Rubber Company, Springfield, Ohio. Pneumatic tire tread. No. 61,148; July 4.
Blake, Joseph E., Gardner, Mass. Toy shackle. No. 61,149; July 4.
Boucher, Henry H., Los Angeles, Calif. Solid rubber tire for vehicles. No. 61,150; July 4.
Chase, Arthur E., Toledo, Ohio, assignor to Grand Council of the Ladies' Oriental Shrine of North America, Wheeling, W. Va. Emblem, badge, or button. No. 61,151; July 4.
Dowling, William, assignor to Golding Bros. Company, New York, N. Y. Textile fabric. No. 61,152; July 4.
Farrell, Minnie M., Kansas City, Mo. Doll pincushion. No. 61,153; July 4.
Fisk Rubber Company, The. (See Frank, Arthur A., assignor.)
Fletcher, Helen M., San Francisco, Calif. Whirligig toy. No. 61,154; July 4.
Forman Bassett Company, The. (See Kres, Charles, assignor.)
Forman Bassett Company, The. (See Meyer Frank, assignor.)
Frank, Arthur A., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 61,155; July 4.
Freeman, Dudley, Roxbury, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Shoe heel. No. 61,156; July 4.
Freeman, Dudley, Roxbury, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Sole or tap. No. 61,157; July 4.
Gill, Stella A., Chatham, Mass. Toy windmill. No. 61,185; July 4.
Golding Bros. Company. (See Dowling, William, assignor.)
Grand Council of the Ladies' Oriental Shrine of North America. (See Chase, Arthur E., assignor.)
Handley, Agnes P., Oakland, Calif. Doll. No. 61,158; July 4.
Hayes, James A., New York, N. Y. Doll. Nos. 61,159–60; July 4.
Hoelzer, William F., New Brunswick, and J. T. Johnson, Plainfield, N. J. Tire. No. 61,161; July 4.
Howe, Francis G., Melrose, Mass. Broom holder. No. 61,162; July 4.
Jaffe, Simon, Montreal, Quebec, Canada. Memorandum stand. No. 61,163; July 4.
Johnson, John T. (See Hoelzer, W. F., and Johnson.)
Johnson, John T., Plainfield, N. J., assignor to O. J. Kuhlke, Akron, Ohio. Tire. No. 61,164; July 4.
Kres, Charles, Cleveland, Ohio, assignor to The Forman Bassett Company, Safety paper. Nos. 61,165–6; July 4.
Kuhlke, Otto J. (See Johnson, John T., assignor.)
Kurfiss, Alexander W., assignor to J. W. Mashburn, Kansas City, Mo. Doll or statuette. No. 61,167; July 4.
Laserus, Joseph, Philadelphia, Pa. Swivel confection rack. No. 61,168; July 4.
Lyon, Allen A., Belvidere, Ill. Vase. No. 61,169; July 4.
Macomber, Lewis E., New York, N. Y., assignor to Seth Thomas Clock Co., Thomaston, Conn. Clock case. No. 61,170; July 4.
Mashburn, John W. (See Kurfiss, Alexander W., assignor.)
Mashburn, John W. (See Sisk, George W., assignor.)
Mayer, Joshua W., New York, N. Y. Ring or similar article. Nos. 61,171–2; July 4.
Meyer, Frank, Lakewood, Ohio, assignor to The Forman Bassett Company, Safety paper. Nos. 61,173–4; July 4.
Nickerson, Gertrude L., assignor to The Warner Brothers Company, Bridgeport, Conn. Corset. No. 61,175; July 4.
Panther Rubber Manufacturing Company. (See Freeman, Dudley, assignor.)
Pittsburgh Lamp, Brass & Glass Company. (See Steffen, Adolf, assignor.)
Richmond Lace Works. (See Smedley, Thomas H., assignor.)
Seth Thomas Clock Co. (See Macomber, Lewis E., assignor.)
Seth Thomas Clock Co. (See Weidman, Frederick A., assignor.)
Sisk, George W., assignor to J. W. Mashburn, Kansas City, Mo. Doll or statuette. No. 61,176; July 4.
Smedley, Thomas H., Long Eaton, England, assignor to Richmond Lace Works, Alton, R. I. Lace. No. 61,177; July 4.
Sonora, Inc. (See Wolff, Joseph, assignor.)
Steffen, Adolf, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Art metal shade frame. No. 61,178; July 4.
Van Valin, William B., Los Angeles, Calif. Baseball-player doll. No. 61,180; July 4.
Van Valin, William B., Los Angeles, Calif. Doll. No. 61,179; July 4.
Victor Rubber Company, The. (See Berlin, Harry S., assignor.)
Warner Brothers Company, The. (See Nickerson, Gertrude L., assignor.)
Weidman, Frederick A., assignor to Seth Thomas Clock Co., Thomaston, Conn. Clock case. No. 61,181; July 4.
White, May, Newport Beach, Calif. Dress apron. No. 61,182; July 4.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora, Inc. Phonograph cabinet. No. 61,183; July 4.
Wurm, Henry G., Yonkers, N. Y. Leather, wall paper, or similar article of manufacture. No. 61,184; July 4.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Angier Chemical Company, Boston, Mass. Refined petroleum for internal and external use as a remedy for disease. No. 21,224; renewed May 31, 1922.
Ault Wiborg Company, The, Cincinnati, Ohio. Printers' and lithographers' ink. No. 21,933; renewed Nov. 8, 1922.
Automatic Refrigerating Company, The, Hartford, Conn. Refrigerating systems and parts thereof. No. 156,580; July 4.
Coldak Company, Springfield, Mass. Refrigerators. No. 156,581; July 4.
Crescent Refractories Company, Curwensville, Pa. Fire brick and tile for metallurgical furnaces. Nos. 156,589–9; July 4.
Burr, George H., et al., trustees and successors. (See Florence Manufacturing Company.)
Dictator Fountain Pen Company, Inc., The, New York, N. Y. Fountain pens and lead pencils. No. 156,582; July 4.
Eclipse Light Company, New York, N. Y., assignor to London Lightingwares Corporation. Certain electric fixtures. No. 156,592; July 4.
Florence Manufacturing Company, Northampton, Mass.; New York, N. Y., and Chicago, Ill. F. N. Look, W. A. MacLeod, and G. H. Burr, trustees and their successors, doing business as Florence Manufacturing Company, assignees. Dentifrice. No. 21,733; renewed Sept. 13, 1922.
Gangelhoff Bros., Minneapolis, Minn. Bed springs. No. 156,593; July 4.
Goetz Gasket and Packing Company, North New Brunswick, N. J. Machinery packing of metal and asbestos. No. 156,594; July 4.
Gordon & Co., London, England, assignor to Gordon's Dry Gin Co. Limited. Liquors and cordials. No. 21,734; renewed Sept. 13, 1922.
Gordon's Dry Gin Co. Limited. (See Gordon & Co., assignor.)
Hayden & Derby Mfg. Company, The, New York, N. Y., assignor to Manning, Maxwell & Moore, Inc. Stationary and locomotive injectors and ejectors. No. 21,221; renewed May 31, 1922.
Hoffman, Stephen R., Brooklyn, N. Y. Watches, dials, movements and parts thereof and watchcases. No. 156,595; July 4.
Hohlfeld Manufacturing Company, Philadelphia, Pa. Terry-cloth and terry-bath-robing piece goods, cloth towels, wash rags, etc. No. 156,583; July 4.
Imperial Paint Company. (See Wood, George L., & Son, assignor.)
Keyless Auto Clock Company, New York, N. Y. Clocks. No. 156,596; July 4.
Look, Frank N., et al, trustees and successors. (See Florence Manufacturing Company.)
Ludwig & Ludwig, Chicago, Ill. Certain musical, percussion, and similar instruments. No. 156,597; July 4.
McClintock, O. B., Company, Minneapolis, Minn. Electric burglar alarms and housings, timer cases, and relays therefor. No. 156,598; July 4.
MacLeod, William A., et al., trustees and successors. (See Florence Manufacturing Company.)
Manning, Maxwell & Moore, Inc. (See Hayden & Derby Mfg. Company, The, assignor.)
Marlin Firearms Corporation, The, New Haven, Conn. Rifles and shotguns. No. 156,584; July 4.
Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, and linen goods and mixtures of cotton and silk and linen and silk in the piece. No. 156,585; July 4.
Muser Brothers, New York, N. Y. Silk in the piece. No. 156,586; July 4.
National Carbon Company, Inc., New York, N. Y. Portable electric lights and dry batteries. No. 156,599; July 4.
Padus "Hold-Up" Alarm Corporation, Albany, N. Y. Hold-up alarms. No. 156,600; July 4.
Reliable Electric Company, Chicago, Ill. Certain electrical supplies. No. 156,601; July 4.
Rosenfeld, E., & Co., Baltimore, Md. Night robes. No. 21,359; renewed June 28, 1922.
Sassafras Eye Lotion Co., Mauch Chunk, Pa. Eye lotion. No. 20,890; renewed Mar. 22, 1922.
Schaefer, F. & M., Brewing Co., The, New York, N. Y. Lager beer. No. 21,004; renewed Apr. 19, 1922.
Taylor, N. & G., Co., Philadelphia, Pa., assignor to N. & G. Taylor Co., Incorporated. Roofing tin. No. 20,543; renewed Jan. 5, 1922.
Taylor, N. & G., Co. Incorporated. (See Taylor, N. & G., Co., assignor.)
Trumbull-Vanderpoel Electric Manufacturing Co., Bantam, Conn. Electric safety switches. No. 156,603; July 4.
Tuckett Tobacco Company, Limited, The, Hamilton, London, and Montreal, Canada. Smoking tobacco, cigars, and cigarettes. No. 156,602; July 4.
Watterson, Arthur M., Omaha, Nebr. Memorandum devices. No. 156,587; July 4.
Wood, George L., & Son, Brooklyn, N. Y., assignor to Imperial Paint Company. Varnishes. No. 20,919; renewed Mar. 29, 1922.
Woolson, Clifford G., Newark, N. J., and New York, N. Y. Sectional burned-clay pipe covering for exposed piping of all kinds. No. 156,604; July 4.
Wolton, Chas., New York, N. Y. Hair nets. No. 156,588; July 4.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Anderson & Nelson, Brockton, Mass. "Select." (For Canned Vegetables—Namely, Tomatoes.) No. 24,612; July 4.
Ap-Pel-Line Medicine Company. (See Rohling, Louis C.)
Arle, Joseph, Two Rivers, Wis. "Arle's Victory Polish." (For a Polish Which can be Used on Automobiles, Furniture, and Other Articles.) No. 24,613; July 4.
Beistle Company, The, Shippensburg, Pa. "Beistle's Hallowe'en Hats." (For Packages Containing Hallowe'en Hats.) No. 24,621; July 4.
Beistle Company, The, Shippensburg, Pa. "Hallowe'en Party Table Decorations." (For Packages Containing Table Decorations for a Hallowe'en Party.) No. 24,622; July 4.
Beistle Company, The, Shippensburg, Pa. "Beistle's Hallowe'en Hats." (For Packages Containing Hallowe'en Hats.) No. 24,623; July 4.
Beistle Company, The, Shippensburg, Pa. "Beistle's Hallowe'en Hat Masks." (For a Package of Hat Masks.) No. 24,624; July 4.
Beistle Company, The, Shippensburg, Pa. "Beistle's—Christmas Decorations for the Home." (For a Package of Christmas Decorations.) No. 24,625; July 4.
Benson Products Co., New Rochelle, N. Y. "Fire-Chief The Infallible Fire Extinguisher." (For a Jar of Fire-Extinguisher Liquid.) No. 24,626; July 4.
Brosbears, A. A., doing business as the Monument Ink Company, Indianapolis, Ind. "Monument Writing Fluid." (For Inks, Known as Writing and Copying Fluid.) No. 24,627; July 4.
California Olive Association, Los Angeles, Calif. "Certified." (For Olives.) No. 24,628; July 4.
Carter, Thomas, & Sons, Inc., New York, N. Y. "The Country Gentleman Handkerchief." (For Boxes Containing Handkerchiefs.) No. 24,629; July 4.
Children's Shoe Workers' Union of New York State, The, New York, N. Y. "The Childrens Shoe Workers' Union of New York State." (For Children's Shoes.) No. 24,631; July 4.
Cohen, Syma, Chicago, Ill. "Lady Esther Four Purpose Cream." (For Face Cream.) No. 24,630; July 4.
Collins, J. N., Company, Minneapolis, Minn. "Walnettos." (For Candy—Namely, Caramels.) Nos. 24,632–3; July 4.
Crown Brewing Co. Inc., The, Cincinnati, Ohio. "Happy Days." (For a Beverage.) No. 24,634; July 4.
Delico Products Company, Sheridan, Wyo. "Delico Dips." (For Chocolate-Coated Frozen Confections.) No. 24,635; July 4.
Frankel, B., Company, The, New York, N. Y. "Admiration." (For Envelopes Containing Hair Nets.) No. 24,636; July 4.
Frankel, B., Company, The, New York, N. Y. "Fenway." (For Envelopes Containing Hair Nets.) No. 24,637; July 4.
Frankel, B., Company, The, New York, N. Y. "Yankee Girl." (For Envelopes Containing Hair Nets.) No. 24,638; July 4.
Frankel, B., Company, The, New York, N. Y. "Peggy." (For Envelopes Containing Hair Nets.) No. 24,639; July 4.
Frankel, B., Company, The, New York, N. Y. "Lion Brand." (For Envelopes Containing Hair Nets.) No. 24,640; July 4.
Frankel, B., Company, The, New York, N. Y. "Firefly." (For Envelopes Containing Hair Nets.) No. 24,641; July 4.
Frozen Fruit, Inc., Harrisburg, Pa. "'Honey-Like' Cocoanut Showers." (For Candy and Confections.) No. 24,642; July 4.

Frozen Fruit, Inc., Harrisburg, Pa. "Cocoanut Showers 'Honey-Like'." (For Candy and Confections.) No. 24,643; July 4.

Glemby's, S., Sons Co., Inc., New York, N. Y. "The Iris Hair Net." (For Hair Nets.) No. 24,644; July 4.

Glemby's, S., Sons Co., Inc., New York, N. Y. "Kismet Hair Net." (For Hair Nets.) No. 24,645; July 4.

Glemby's, S., Sons Co., Inc., New York, N. Y. "Swannette Hair Net." (For Hair Nets.) No. 24,646; July 4.

Goldberg, S., & Company, Newark, N. J. "Puncher De Luxe." (For Boxes Containing Cigars.) No. 24,647; July 4.

Green & Company, Chicago, Ill. "Satisfaction." (For Eggs.) No. 24,648; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Coeur de Violette." (For Toilet Soap.) No. 24,614; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Depilatory." (For Preparation for Removing Hair.) Nos. 24,615–6; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Coeur de Violette." (For Toilet Soap.) No. 24,617; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Brilliantine." (For Hair Preparation.) No. 24,618; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Complexion Balm." (For a Lotion for Beautifying the Skin.) No. 24,619; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Princess Charming." (For Perfume, Toilet Water, Face Powder, and Talcum Powder.) No. 24,620; July 4.

H. R. F. Co., San Francisco, Calif. "Lasting Lustro The Perfect Polish." (For Autos, Furniture, Leather, Pianos, Victrolas, Etc., as a Cleaning and Polishing Compound.) No. 24,649; July 4.

Jern Food Company, College View, Nebr. "O. K. Eto Crisps." (For Health Wafers.) No. 24,650; July 4.

Johnston, Robert A., Company, Milwaukee, Wis. "Choice Box." (For Packages of Confectionery.) No. 24,651; July 4.

Mile-A-Minute, Incorporated, Pittsburgh, Pa. "Mile-A-Minute." (For Carbon Remover and Preventer.) No. 24,652; July 4.

Monument Ink Company. (See Brosbears, A. A.)

Morris, Mann & Reilly, Inc., Chicago, Ill. "M. M. R's Red Seal Hair Net." (For Hair Nets.) No. 24,653; July 4.

National Pepsin Gum Co., San Francisco, Calif. "Selby's Fleur Kiss Chewing Gum." (For Packages Containing Chewing Gum.) No. 24,654; July 4.

Nekritz, Jacob L., Brooklyn, N. Y. "P S G Co. Stove Gloss." (For a Stove Gloss Preparation.) No. 24,655; July 4.

Newark Paraffine & Parchment Paper Co., Newark, N. J., Columbus, Ohio, and New York, N. Y. "Thorobread." (For Bread.) No. 24,656; July 4.

Newbill, T. J., La Grange, Ill. "Vit-A-Mine Line Foods." (For Vit-A-Mine Line Foods.) No. 24,657; July 4.

Northern Paper Mills, Green Bay, Wis. "Red Poppy." (For a Wrapper for Toilet-Paper Rolls.) No. 24,658; July 4.

Northern Paper Mills, Green Bay, Wis. "Yellow Bird." (For a Wrapper for Toilet-Paper Rolls.) No. 24,659; July 4.

Northern Paper Mills, Green Bay, Wis. "Northern Cabinet Tissue." (For a Wrapper for Packages of Toilet Paper.) No. 24,660; July 4.

Northern Paper Mills, Green Bay, Wis. "Green Leaf." (For a Wrapper for Toilet-Paper Rolls.) No. 24,661; July 4.

Northern Paper Mills, Green Bay, Wis. "Northern Bear." (For a Wrapper for Toilet-Paper Rolls.) No. 24,662; July 4.

Northern Paper Mills, Green Bay, Wis. "Bonnie." (For a Wrapper for Toilet Paper Rolls.) No. 24,663; July 4.

Northern Paper Mills, Green Bay, Wis. "Purple Feather." (For a Wrapper for Toilet-Paper Rolls.) No. 24,664; July 4.

Northern Paper Mills, Green Bay, Wis. "Drytex." (For a Wrapper for Folded Paper Towels.) No. 24,665; July 4.

Nuss Confectionery Company, The, Cincinnati, Ohio. "Indian Corn Candy." (For Butter Cream Confections—Namely, Indian Corn Candy.) No. 24,666; July 4.

Omes Pharmacal Co., Denver, Colo. "Asp-Rin-Lax." (For Cold Tablets.) No. 24,667; July 4.

O'Neill, J. A., Crozet, Va. "Virginia Mountain Peaches, Mad Run Brand." (For Packages Containing Peaches.) No. 24,668; July 4.

Oscar Hair Restoring Company, Scranton, Pa. "The Chertok-Bodak Hair Saver." (For a 4-oz. Bottle of Vegetable and Root Compound (Liquid) for the Treatment of Hair and Scalp.) No. 24,669; July 4.

Paper Specialty Company, Wausau, Wis. "Parasilk." (For Toilet Paper.) No. 24,670; July 4.

Pennsylvania Sugar Company, Philadelphia, Pa. "Pen-Jel." (For a Powdered Substance Consisting of Pectin and Acidified Sugar, a Quick Jelly-Making Material.) No. 24,671; July 4.

Prince, Irving, doing business as Play Ball Manufacturing Company, New York, N. Y. "Play Ball." (For Games.) No. 24,672; July 4.

Play Ball Manufacturing Company. (See Prince, Irving.)

Realgood Corporation, The, Atlanta, Ga. "Realgood." (For Hosiery.) Nos. 24,673–4; July 4.

Regus, Henry J., New Orleans, La. "Brownie Krust." (For Bread.) No. 24,675; July 4.

Riddle-McElwain Co., Sabinal, Tex. "Golden Glow Butter." (For Butter.) No. 24,676; July 4.

Rohlfing, Louis C., doing business as the Ap-Pel-Line Medicine Company. "Ha-Lo Antiseptic Cylinders Antiseptic, Healing, Deodorant, Prophylactic." (For Medicinal Preparations for Female Diseases.) No. 24,677; July 4.

Sano Remedy Company, Cleveland, Ohio. "Sano." (For a Rheumatic Remedy and System Tonic.) No. 24,678; July 4.

Savem Economy Products Co., East Boston, Mass. "Savem." (For a Container for a Compound Used for the Treatment of Fabrics After the Same Have Been Washed.) Nos. 24,679–80; July 4.

Schall's Inc., Clinton, Iowa. "Chocolate Pie," (For Candy.) No. 24,681; July 4.

Schwind Laboratory, The, Le Mars, Iowa. "Dr. Schwind's Rose Healing Salve." (For Salve.) No. 24,682; July 4.

Sclafani & Sons, New York, N. Y. "El Fani." (For Boxes Containing Cigars.) No. 24,683; July 4.

Simmons, Felix, doing business as Styla Silk Hosiery Co., Worcester, Mass. "Styla." (For Boxes Containing Hosiery.) No. 24,684; July 4.

Small, L. K., Company, Los Angeles, Calif. "Sweetie." (For Oranges.) No. 24,685; July 4.

Standard Laboratories, Inc., Los Angeles, Calif. "Stacomb." (For Hair Pomade.) No. 24,686; July 4.

Steel, L. R., Company, Inc., Buffalo, N. Y. "Jane Drew." (For Candies.) No. 24,687; July 4.

Styla Silk Hosiery Co. (See Simmons, Felix.)

Sweet Candy Company, Salt Lake City, Utah. "Sweet's Lady Claire Chocolates." (For Chocolate.) No. 24,688; July 4.

Sweet, William H., Company, The, Columbus, Ohio. "Wafer-Lax." (For a Carton which Contains a Bottle with an Average of Thirty-Two Wafers Contained Therein.) No. 24,689; July 4.

Theard, Thomas A., Indianapolis, Ind. "Cyclone Cleaner." (For a Cleaning Compound.) No. 24,690; July 4.

Virden Packing Company, South San Francisco, Calif. "Virden's Thrift." (For Cooked Corn Beef.) No. 24,691; July 4.

Wahl, M., & Son, New York, N. Y. "Lady Jane." (For Hair Nets.) No. 24,692; July 4.

Zinsmaster, M., Des Moines, Iowa. "Husky Graham Bread." (For Bread.) No. 24,693; July 4.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Boston Piano Co., Chicago, Ill. "Pianos! Pianos!" (For Advertising Purposes for Pianos.) No. 6,195; July 4.

Boston Piano Co., Chicago, Ill. "Factory Pianos." (For Advertising Purposes for Pianos.) No. 6,196; July 4.

Boston Piano Co., Chicago, Ill. "Alteration Piano Sale." (For Advertising Purposes for Pianos.) No. 6,197; July 4.

Earl, Grace D., Chicago, Ill. "Jiffe." (For Advertising Purposes for Nail Polish.) No. 6,198; July 4.

Estey Organ Co., Brattleboro, Vt. "The Estey Residence Pipe Organ." (For Advertising Purposes for The Estey Residence Pipe Organ.) No. 6,199; July 4.

Haynes Automobile Company, The, Kokomo, Ind. "The New Improved Seven Passenger Haynes 75 Touring Car." (For Advertising Purposes for Automobiles.) No. 6,200; July 4.

Monroe Calculating Machine Co., New York, N. Y. "Makes All Figuring as Easy as Turning the Crank." (For Advertising Purposes for Monroe Calculating Machines.) No. 6,201; July 4.

Murphy, Frank G., Mason City, Iowa. "Beauty Brows." (For Advertising Purposes for Eyeglasses and Spectacles.) No. 6,202; July 4.

National Paper & Type Co., The, New York, N. Y. "Eldorado Brand Typewriter Ribbons Non-Filling and Durable." (For Advertising Purposes for Eldorado Typewriter Ribbons.) No. 6,203; July 4.

Raub & Mack Shirt Co., Cincinnati, Ohio. "Macksi Mum." (For Advertising Purposes for Shirts.) No. 6,204; July 4.

Saxe, William W., Boston, Mass. "Polar Patties." (For Advertising Purposes for a Confection Comprising Ice Cream as a Principal Ingredient.) No. 6,205; July 4.

Steinfeld Bros., New York, N. Y. "'Jiffy' Folding Card Table De Luxe." (For Advertising Purposes for Folding Card Tables.) No. 6,206; July 4.

Union Piano Co., Chicago, Ill. "Piano Sale." (For Advertising Purposes for Pianos.) Nos. 6,207–8; July 4.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aachener Thermalwasser "Kaiserbrunnen" Aktiengesellschaft, Aachen, Aix-la-Chapelle, Germany. Drinking salt, bath salt, pastils containing spring salts, etc. No. 155,467; July 4.

A-B-C Auto Radiator Works. (See Shapiro, Charles H.)

Ackewell Mfg. & Sales Co. Inc., Northport, N. Y. Oil valves. No. 145,601; July 4.

Advertiser's Art Studios, Inc., The, Washington, D. C. Advertising letter folders. No. 163,072; July 4.

Allman, Walter B., Cleveland, Ohio. Pictures and cartoons published in newspapers and magazines. No. 161,952; July 4.

Aluminium Walzwerke A.-G., Schaffhausen, Switzerland. Boxes and vases made of aluminium. No. 138,800; July 4.

Alys. (See Wildes, Alice S.)

American Cellulose & Chemical Manufacturing Company, Ltd., New York, N. Y. Powder consisting of cellulose acetate or cellulose esters, or cellulose ethers with other ingredients and which is used in the manufacture of moldings or casings, etc. No. 161,221; July 4.

American Chair Company, Sheboygan, Wis. Household chairs, rockers, tables, beds, dressers, desks, and fiber office furniture. No. 159,195; July 4.

American Fastener Company, The, Waterbury, Conn. Snap fasteners. No. 160,107; July 4.

American Writing Paper Company, Holyoke, Mass. Writing and printing papers. Nos. 157,293–4; July 4.

Antonsen, Kai, Chicago, Ill. Maltless soft drinks and sirups for making same. No. 160,528; July 4.

A. O. J. Tool Company, Coldwater, Mich. Shock pneumatic tools and hand tools. No. 156,945; July 4.

Associated Editors, Chicago, Ill. Section of a daily, weekly, or monthly periodical devoted to games. No. 158,410; July 4.

Atlas Portland Cement Company, The, North Hampton, Pa., and New York, N. Y. Stucco. Nos. 163,073–4; July 4.

Atlas Portland Cement Company, The, North Hampton, Pa., and New York, N. Y. Stucco. No. 163,076; July 4.

Atwood Machine Company, The, Stonington, Conn. Winding frames. No. 158,556; July 4.

Atwood Machine Company, The, Stonington, Conn. Reel mills. No. 158,558; July 4.

B. B. Culture Laboratory, Inc., Yonkers, N. Y. Culture of lacti bacilli for medicinal use in gastro-intestinal disorders, etc. No. 160,584; July 4.

Bachelier, Melville C., Grand Forks, N. Dak. Benches other than workbenches. No. 149,168; July 4.

Bell Syndicate, Inc., The, New York, N. Y. Series of cartoons. No. 163,214; July 4.

Berg, Frederick O., doing business as the F. O. Berg Company, Spokane, Wash. Shelter tents of canvas or other fabrics. No. 159,785; July 4.

Binder Brothers, Inc., New York, N. Y. Monthly publications. No. 164,096; July 4.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabric in the piece. No. 162,477; July 4.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 163,079–81; July 4.

Bok-A-Bel Medicine Co., The. (See Taylor, Charles G.)

Bonar-Phelps Company, New York, N. Y. Hats for men. No. 150,357; July 4.

Boston & Lockport Block Company, Boston, Mass. Pulleys or blocks. Nos. 152,459–60; July 4.

Bowman, Glenn F., and Charles F. C. Arensberg, Pittsburgh, Pa. Dentifrice. No. 159,840; July 4.

Bowser, S. F., & Company, Inc., Fort Wayne, Ind. Dispensers and measuring pumps and meters for liquid fuels and lubricants. No. 161,165; July 4.

Brier's, Marcus, Sons, New York, N. Y. Clothing. No. 155,596; July 4.

Buffalo Optical Company, Inc., Buffalo, N. Y. Glass paperweights shaped to form optical lenses. No. 162,282; July 4.

Buckner Process Company, Worcester, Mass. Textile belting. No. 159,993; July 4.

Burhans, Robert, Jr., Los Angeles, Calif. Insulating powder used in building construction, etc. No. 147,229; July 4.

Burnham, E., Inc., Chicago, Ill. Deodorant. No. 160,461; July 4.

Burnham, E., Inc., Chicago, Ill. Hair remover. No. 160,463; July 4.

Burnham, E., Inc., Chicago, Ill. Hair tonic relieving excessive oil. No. 160,464; July 4.

Burnham, E., Inc., Chicago, Ill. Face powder. No. 160,470; July 4.

Burnham, E., Inc., Chicago, Ill. Brilliantine. No. 160,471; July 4.

Burnham, E., Inc., Chicago, Ill. Facial cream. No. 160,478; July 4.

Burnham, E., Inc., Chicago, Ill. Talcum powder. No. 160,460; July 4.

Burnham, E., Inc., Chicago, Ill. Liquid face powder. No. 160,465; July 4.

Burnham, E., Inc., Chicago, Ill. Preparation for crows-feet. No. 160,467; July 4.

Burnham, E., Inc., Chicago, Ill. Shampoo. No. 160,468; July 4.

Burnham E., Inc., Chicago, Ill. Preparation for chapped hands. No. 160,469; July 4.

Burnham, E., Inc., Chicago, Ill. Perfume, toilet water, sachets, and other toilet preparations. No. 160,472; July 4.

Burnham, E., Inc., Chicago, Ill. Hot preparation used in oil scalp treatments. No. 160,476; July 4.

Burrowes, E. T., Company, The, Portland, Me. Short ladder of the type known as stepladder. No. 161,526; July 4.

Burton-Dixie Corporation, Chicago, Ill. Comforters. No. 159,554; July 4.

Burton-Dixie Corporation, Chicago, Ill. Mattresses, cushions, pads, beds, etc. No. 154,634; July 4.

Camden Anchor-Rockland Machine Co., Camden, Me. Marine and stationary internal-combustion motors and carburetors. No. 143,743; July 4.

Cardinal Silk Company, Scranton, Pa. Silk piece goods. No. 161,873; July 4.

Carlsbad Vegetable Growers Association, Carlsbad, Calif. Fresh vegetables. No. 158,292; July 4.

Carpenter, Geo. B., & Co., Chicago, Ill. Cotton waste. Nos. 161,226–32; July 4.

Carrosserie Van Den Plas, Société Anonyme, Brussels, Belgium. Motor-car bodies, parts, and accessories. No. 158,704; July 4.

Carter Motor Accessories, Inc., Buffalo, N. Y. Oil gauges. No. 161,819; July 4.

Cheramy, Inc., New York, N. Y. Perfumes, toilet waters, face and toilet powders, sachets, etc. No. 159,499; July 4.

Collins Company, The, Collinsville, Conn. Agricultural implements, cutlery and edge tools and machinists' tools. No. 156,778; July 4.

Colony Mills, Inc., New York, N. Y. Cotton piece goods, drapery fabrics of cotton, silk, etc. No. 161,917; July 4.

Counord, Joseph, Talence, near Bordeaux, France. Tonic wine used for anaemia, convalescence, low vitality, and as a general tonic. No. 159,790; July 4.

Crescent Company, The, Tarr, Pa. Unsweetened evaporated milk. No. 157,914; July 4.

Crofts & Reed Co., Chicago, Ill. Toilet soaps. No. 160,114; July 4.

D. A. Newcomer Company, Los Angeles, Calif. Trailers for motor vehicles. No. 162,484; July 4.

Davies, Charles T., Reading, Pa. Hosiery. No. 159,014; July 4.

De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, hook and eye tape and safety pins. No. 162,164; July 4.

Denels, Robert, doing business as "Robert," New York, N. Y. Hair nets. No. 162,535; July 4.

Denser & Nathan, Inc., New York, N. Y. Piece goods manufactured from cotton or other fiber. No. 162,102; July 4.

Detroit Brass & Malleable Works, Detroit, Mich. Brass valves and cocks, gas appliances, etc. No. 153,649; July 4.

Devon Manufacturing Company, Inc., Brooklyn, N. Y. Play suits and overalls. No. 158,606; July 4.

Diack Bros., Troy, N. Y. Hair, clothes, and shoe brushes. No. 160,001; July 4.

Diamond Braiding Mills, Chicago Heights, Ill. Shoe laces. No. 161,114; July 4.

Diets, R. E., Company, New York, N. Y. Glass globes for lanterns. No. 161,768; July 4.

Dodge Sales & Engineering Co., Mishawaka, Ind. Stamped steel pulleys. No. 128,631; July 4.

Duplex Products Co. (See Krusch, William T.)

Duraflex Company, The, Baltimore, Md. Plastic floor covering to be applied with a trowel. No. 158,522; July 4.

Dutton, E. P., & Co., New York, N. Y. Printed books published in series. Nos. 163,141–2; July 4.

Eckenroth Valve and Manufacturing Co., Philadelphia, Pa. Metallic valves. No. 161,120; July 4.

Eggers-Hambler Company, Elizabeth, N. J., and New York, N. Y. Fountain pens, stylographic pens, and pencils. No. 162,672; July 4.

Ellis, Eugene, Co. Inc., New Orleans, La. Cotton piece goods. No. 160,338; July 4.

Evans Concinnum & Metal Works, Ltd., London, England. Pocket cigarette-rolling machines. No. 139,790; July 4,

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Fabig, Robert, Gesellschaft mit beschränkter Haftung, Maschinen-u. Apparate-Fabrik, Neuruppin, Germany. Typewriting machines and parts thereof. No. 153,594; July 4.

Filice & Perrelli Canning Co., Gilroy, Calif. Canned vegetables and fruits. No. 158,301; July 4.

Fimmel, Elizabeth, North Branch, N. J. Salve or ointment. No. 156,271; July 4.

Fox River Paper Company, Appleton, Wis. Writing paper and ledger. No. 161,002; July 4.

Fulton, Frederick F., doing business as Oiltrol Piston Ring Co., Philadelphia, Pa. Piston rings. No. 160,982; July 4.

Gadomski Bros., Jersey City, N. J. Healing compound for sores and wounds. No. 153,243; July 4.

Garrity, L. M., & Co. Inc., Boston, Mass. Hair wavers, curlers, and crimpers. No. 162,402; July 4.

Geneva Tackle Co., Geneva, N. Y. Fishing spoons. No. 163,150; July 4.

George Matthew Adams Service, The, New York, N. Y. Series of cartoons. No. 131,719; July 4.

Gillette Safety Razor Company, Boston, Mass. Safety razors. No. 147,192; July 4.

Goodspeed, Charles A., doing business as The Remind-O-Meter Company, Highland Park, Mich. Hand-operated counting registers. No. 159,237; July 4.

Greaney, Thomas E., doing business as Standard Neckwear Company, Boston, Mass. Neckties. No. 154,311; July 4.

Gref & Schmidt. (See Henckels, J. A., assignor.)

Gribbon Company Inc., New York, N. Y. Cotton handkerchiefs. No. 162,335; July 4.

Grumbacher, Max, New York, N. Y. Artists' brushes. No. 161,085; July 4.

Guild Products Corporation, Philadelphia, Pa. Blank books, loose-leaf-ledger binders, loose-leaf sheets, stenographers' notebooks, etc. No. 159,752; July 4.

Hale Bros., Inc., San Francisco, Calif. Tablecloths and napkins. No. 158,712; July 4.

Hamoes Limited, London, England. Hair wash, shampoo powders, perfumery powders, etc. No. 158,313; July 4.

Hauser & Well, New York, N. Y. Belts for men, women, and children. No. 159,034; July 4.

Hayes, James A., New York, N. Y. Dolls. No. 161,049; July 4.

Hays-Raden Company, Philadelphia, Pa. Cleanser for cleaning clothes, silverware, dishes, cooking utensils, woodwork, etc. No. 159,357; July 4.

Henckels, J. A., assignor to Gref & Schmidt, Inc., New York, N. Y. Cutlery. No. 153,980; July 4.

Hockmeyer Bros., New York, N. Y. Cotton piece goods—viz, corduroy. No. 162,254; July 4.

Hooven & Allison Company, The, Xenia, Ohio. Sisal and manila ropes. No. 146,549; July 4.

Ho-Ro-Co Manufacturing Company, St. Louis, Mo. Talcum, complexion, and depilatory powders, petroleum jelly, almond, cold, vanishing, and massage creams, etc. No. 159,314; July 4.

Hoyland Flour Mills Company, Kansas City, Mo. Wheat flour. Nos. 160,346–7; July 4.

Hoyland Flour Mills Company, Kansas City, Mo. Wheat flour. No. 160,349; July 4.

Hudson Bay Fur Company. (See Silbert, Harry.)

Ingersoll, William H., New York, N. Y. Pencils. No 161,780; July 4.

Injun Washing Powder. (See Kihn, August E.)

International Vending Machines Ltd., Montreal, Quebec, Canada. Vending machines. No. 157,317; July 4.

Jacobson, Albert E., New York, N. Y. Photographic prints. No. 152,849; July 4.

Jalco Motor Company, The. (See Long, J. A., Company.)

Jenne, Betty, Incorporated, Los Altos, Calif. Canned fruits and vegetables, nuts in their natural state, honey, jelly, etc. No. 156,352; July 4.

John Wanamaker, Philadelphia, Philadelphia, Pa. Soaps. No. 156,727; July 4.

Jones, Elwood, New York, N. Y. Lumber. No. 162,491; July 4.

Kelley & Corwin, New York, N. Y. Toy telephones. No. 163,448; July 4.

Kendall Products Corporation, New York, N. Y. Soap powders. Nos. 158,985–6; July 4.

Khoury, Abraham, Manchester, N. H. Medicine for menorrhagia, metrorrhagia, backache, and menstrual fever. No. 159,511; July 4.

Kihn, August E., doing business as Injun Washing Powder, Philadelphia, Pa. Washing powder. No. 160,414; July 4.

Klaine, F. A., Company, The, Cincinnati, Ohio. Coal, coke, wood, and gas stoves. No. 157,838; July 4.

Kleinert, I. B., Rubber Company, New York, N. Y. Baby pants. Nos. 158,680–1; July 4.

Knickerbocker Case Company, Chicago, Ill. Cases and bags for holding fishing material. No. 163,366; July 4.

Kohnstamm, H., & Co., Inc., New York, N. Y. Hot and cold sour for laundry purposes and in treating textiles. No. 160,709; July 4.

Krueger-Tobin Co., Inc., New York, N. Y. Infant's hosiery. No. 156,395; July 4.

Krusch, William T., doing business as Duplex Products Co., Norwolk, Conn. Shampoo cream. No. 160,066; July 4.

Laboiteaux, C. L., Company, The, Cincinnati, Ohio. Strawboard, box board, binder's board, etc. No. 143,544; July 4.

Lamson Brothers Co., The, Toledo, Ohio. Toilet soaps. No. 158,190; July 4.

Lane Brothers Company, Boston, Mass. Leather and felt shoes and shoes of combination of leather and rubber. No. 155,210; July 4.

Landenberger, Charles H., Philadelphia, Pa. Brooders and hovers. No. 162,828; July 4.

Langley & Michaels Co., San Francisco, Calif. Soda fountains, carbonators, and soda-fountain machinery. No. 158,322; July 4.

Leon, Albert E., Belmont, Mass. Antifriction bearings, shafts, arbors, and bearing parts. No. 149,408; July 4.

Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 163,092; July 4.

Lewis, L. H., Company, Dallas, Tex. Hosiery. No. 155,412; July 4.

Liebmanns, S., Sons, Inc., New York and Brooklyn, N. Y. Malt soft drink. No. 160,499; July 4.

Lindenhurst Manufacturing Co., Lindenhurst, N. Y. Horn buttons. No. 159,097; July 4.

Lindsborg Milling & Elevator Co., Lindsborg, Kans. Wheat flour. No. 147,727; July 4.

Lipschitz, R., & Sons, New York, N. Y. Hosiery, underwear, and sweaters of knitted fabric. No. 154,226; July 4.

Little Giant Company, Mankato, Minn. Machine for measuring weight or pull. No. 160,714; July 4.

Loft, Incorporated, New York, N. Y. Candies. No. 158,878; July 4.

Long, J. A., Company, doing business as The Jalco Motor Company, Portland and Union City, Ind. Cream testers. No. 162,347; July 4.

Lord & Taylor, New York, N. Y. Pyjamas. No. 155,506; July 4.

Lord & Taylor, New York, N. Y. Pyjamas. No. 155,508; July 4.

Ludlow Manufacturing Associates, Boston, Mass. Jute webbing. No. 162,182; July 4.

Magee, Allan A., Montreal, Quebec, Canada. Horses on wheels for children. No. 146,321; July 4.

Manhattan Briar Pipe Company, New York and Brooklyn, N. Y. Pipes for smoking. No. 153,733; July 4.

Manhattan Briar Pipe Company, New York and Brooklyn, N. Y. Pipes for smoking. No. 153,743; July 4.

Markman, Simon, New York, N. Y. Shampoo and hair wash. No. 160,252; July 4.

Marshall Field & Company, Chicago, Ill. Muslin, cambric, nainsook, and long cloth all in the piece. No. 140,311; July 4.

Maryland Shoe Corporation, Baltimore, Md. Leather and canvas shoes. Nos. 152,897–8; July 4.

McClave-Brooks Co., Scranton, Pa. Steam blowers. No. 157,720; July 4.

McCreery, James, & Company, New York, N. Y. Combs, pincushions, glove stretchers, shoehorns, etc. No. 158,245; July 4.

Mid West Glass Company, The, Cincinnati, Ohio. Fluid gauges. No. 161,734; July 4.

Miller, Joseph B., Indianapolis, Ind. Fire-extinguishing composition. No. 158,884; July 4.

Miller Lock Company, Philadelphia, Pa. Frying pans and broom holders. No. 156,500; July 4.

Miller Tool & Mfg. Co. Detroit, Mich. Service tools used in repairing automobiles. No. 156,231; July 4.

Minnesota Stove Company, The, Minneapolis, Minn. Wood, coal, gas, oil, and vapor stoves, ranges, and furnaces. No. 106,453; July 4.

Morris & Company Chicago, Ill. Meats, meat products, and other foods. Nos. 154,036–7; July 4.

National Home Appliance Corporation, Detroit, Mich. Household appliances. No. 149,003; July 4.

Natural Life Face Beautifier Company, St. Louis, Mo. Skin lotion. No. 160,624; July 4.

Neuhoff, Fred B., trading as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and vegetables. No. 157,943; July 4.

Neuhoff, Fred B., trading as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and vegetables. Nos. 157,945–6; July 4.

New York Merchandise Company, New York, N. Y. Safety pins. Nos. 160,558–9; July 4.

Noonan, T., & Sons Company, Boston, Mass. Toilet preparations. No. 145,119; July 4.

Oiltrol Piston Ring Co. (See Fulton, Frederick F.)

1 in 5 Manufacturing Co., Detroit, Mich. Liquid preparation for energizing gasoline. No. 157,169; July 4.

Osborn Mills, Fall River, Mass. Cotton pillow tubing. No. 163,105; July 4.

Osborn Paper Company, Marion, Ind. Writing tablets, composition books, student notebooks, etc. No. 162,947; July 4.

Package Confectionery, Boston, Mass. Candy. No. 149,598; July 4.

Palmers, Limited, doing business as Minty, Montreal, Quebec, Canada. Creams, face powders, rouges, etc. No. 158,640; July 4.

Panarello, James A., doing business as J. A. Panarello Co., New York, N. Y. Golf hose. No. 155,572; July 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Parts Service Company, The, Cleveland, Ohio. Automobile parts. No. 160,972; July 4.

Passaic Print Works, Passaic, N. J. Cotton piece goods. No. 156,410; July 4.

Pierson, Irving R., New York, N. Y. Metallic straps for use in strapping and sealing boxes, etc. No. 155,631; July 4.

Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 145,708; July 4.

Plant-Butler Company, The, Cincinnati, Ohio. Boots, shoes, and slippers. No. 156,800; July 4.

Porter Chemical Company, The, Hagerstown, Md. Chemicals. No. 143,103; July 4.

Poster Advertising Association, Chicago, Ill. Monthly publication. No. 163,352; July 4.

Premier Malt Products Co. of Ohio, Inc., Chicago, Ill. Malt sirup for food purposes. Nos. 158,629–31; July 4.

Purchasing Agents Association of Western Massachusetts, Springfield, Mass. Periodical published monthly. No. 163,536; July 4.

Puritan Drug Mfg. Company, The, Columbus, Ohio. Ammonia, castor oil, cough balsam, salts, etc. No. 146,655; July 4.

Rainbow Import & Export Corporation, New York, N. Y. Aluminum kitchen utensils and flatware. No. 157,043; July 4.

Reed Roller Bit Co., Houston, Tex. Rotary drill bits, reamers, oil-well fishing tools, etc. No. 153,950; July 4.

Rees, Fred, doing business as The Remo Mfg. Co., Meriden, Conn. Safety pins. Nos. 161,147–8; July 4.

Remind-O-Meter Company, The. (See Goodspeed, Charles A.)

Remo Manufacturing Co., The. (See Rees, Fred.)

Reynolds, Reginald, Riverside, Conn. Embroidery yarns and sewing threads. No. 159,886; July 4.

Rhymer, Hiram B., Elmira, N. Y. Washing powder. No. 149,102; July 4.

"Robert." (See Dewels, Robert.)

Roddenbery Bros., Cairo, Ga. Pure Georgia cane sirup. No. 158,334; July 4.

Rogers, Enoch S., trading as E. S. Rogers Mfg. Co., Philadelphia, Pa. Children's three-wheel propelling cars. No. 159,769; July 4.

Rose & Frank Co., New York, N. Y. Tissue paper mainly used for carbonizing purposes. Nos. 162,576–8; July 4.

Royal Electrotype Company, Philadelphia, Pa. Electrotypes. No. 161,164; July 4.

Rutland Fire Clay Co., Rutland, Vt. Boiler covering. No. 154,996; July 4.

Sander, Wieler & Co., Hamburg, Germany. Carbon blocks and paint pigments. No. 144,884; July 4.

Sanford Mills, Sanford, Me., and Boston, Mass. Pile fabrics made wholly or in part of hair or wool. No. 162,138; July 4.

Schieren, Chas. A., Company, New York, N. Y. Leather belting. No. 161,276; July 4.

Schlaugen Bros. Co., Chicago, Ill. Hose nozzles. No. 157,636; July 4.

Sept Cinema Camera Distributors, Inc., New York, N. Y. Cinema cameras. No. 161,901; July 4.

Shackman, B., & Co., New York, N. Y. Snapping mottoes. Nos. 164,125–6; July 4.

Shapiro, Charles H., doing business as A-B-C Auto Radiator Works, Chicago, Ill. Radiators for motor vehicles. No. 162,463; July 4.

Sheffield Mfg. Co., Burr Oak, Mich. Coaster wagons. Nos. 164,611–13; July 4.

Sheffield Mfg. Co., Burr Oak, Mich. Hand sleds. No. 164,614; July 4.

Sheffield Mfg. Co., Burr Oak, Mich. Coaster wagons. No. 164,615; July 4.

Shipley-Allen, Inc., Dover, Del., and Pittsburgh, Pa. Piston rings. No. 162,855; July 4.

Silbert, Harry, doing business as Hudson Bay Fur Company, New York, N. Y. Prepared furs. No. 152,727; July 4.

Skelton Tool Co., Syracuse, N. Y. Reamers, boring bars, special metal-working tools, machine guards. No. 144,546; July 4.

Smith, Carolyn S., doing business as Vitalized Water Process Co., New York, N. Y. Filters. No. 162,583; July 4.

Smith, Margaret J., trading as U. Z. A. Manufacturing Co. (not Inc.), Chicago, Ill. Curtain holders. No. 161,204; July 4.

Societe Rodier, Paris, France. Woolen, merino, and cashmere piece goods. No. 157,333; July 4.

Societe Rodier, Paris, France. Piece goods of wool and of silk and of combinations of silk and wool. No. 157,334; July 4.

Societe Rodier, Paris, France. Piece goods of cotton and wool and combinations of same. No. 157,335; July 4.

Societe Rodier, Paris, France. Woolen piece goods. No. 157,587; July 4.

Southwestern Milling Company, Inc., The, New York, N. Y., and Kansas City, Mo. Wheat flour. No. 155,326; July 4.

Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. No. 161,798; July 4.

Standard Neckwear Company. (See Greaney, Thomas E.)

Star Oil Company, Chicago, Ill. Lubricating oils. No. 152,217; July 4.

Sta-Rite Hair Pin Co., Shelbyville, Ill. Hair pins. No. 160,303; July 4.

Stein, A., & Company, Chicago, Ill. Elastic webbing and shirred elastic ribbon. No. 148,623; July 4.

Stevens, J. P., & Co., New York, N. Y. Woolen piece goods. Nos. 163,119–20; July 4.

Stevenson, Robert T., doing business as The Stevenson Sales Company, Chicago, Ill. Can opener. No. 158,543; July 4.

Stevenson Sales Company, The. (See Stevenson, Robert T.)

Stimule Company Inc., The New York, N. Y. Toilet powder. No. 160,509; July 4.

Stimule Company Inc., The, New York, N. Y. General tonic in tablet form. No. 160,510; July 4.

Stimule Company Inc., The New York, N. Y. Toilet cream. No. 160,511; July 4.

Stimule Company Inc., The, New York, N. Y. Headache medicine. No. 160,512; July 4.

Stimule Company Inc., The, New York, N. Y. Laxative medicine. No. 160,513; July 4.

St. John Brothers Co. Inc., New York, N. Y. Fabrics identified as follows: piece-dyed chambray, piece-dyed chambray shorts, tickings, etc. No. 162,697; July 4.

Stuart & Holmes Drug Co., Seattle, Wash. Combs. No. 162,906; July 4.

Sullivan Machinery Company, Boston, Mass., and Chicago, Ill. Air lifts and liquid separators. No. 145,861; July 4.

Superior Manufacturing Co., Massillon, Ohio. Aluminum tipped saucepans, pots, kettles, pitchers, coffeepots, teapots, etc. No. 161,205; July 4.

Sussfeld, Lorsch & Schimwel, New York, N. Y. Watch parts. No. 154,100; July 4.

Sykes & Thompson Co., The, Cleveland, Ohio. Confections—namely, candy. No. 156,866; July 4.

Taylor, Charles G., doing business as The Bok-A-Bel Medicine Co., Peoria, Ill. Compound for treating catarrh, asthma, and colds. No. 159,389; July 4.

Ternstedt Manufacturing Co., Detroit, Mich. Automobile body hardware. No. 156,471; July 4.

Tuckett Tobacco Company, Limited, The, Hamilton and London, Ontario, and Montreal, Quebec, Canada. Cut and plug tobacco. No. 144,358; July 4.

United Manufacturing Trimming Co. Inc., New York, N. Y. Buttons, buckles, girdles, beads, spangles, etc. No. 161,158; July 4.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Cement such as is used in the manufacture and repairing of boots and shoes. No. 148,041; July 4.

United States Brewing Company, Newark, N. J. Beer and near beer. No. 147,380; July 4.

United States Gypsum Company, Chicago, Ill. Calcined gypsum wall plaster. No. 163,204; July 4.

United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. No. 164,526; July 4.

United States Rubber Company, New Brunswick N. J., and New York, N. Y. Hose made of cotton and rubber and hose made of linen. No. 161,287; July 4.

U. Z. A. Manufacturing Co. (not Inc.). (See Smith, Margaret J.)

Valcour, Frank, Cutbank and Forsyth, Mont. Liquid cleaning compound. No. 153,420; July 4.

Van Raalte Company, New York, N. Y. Stockings. No. 147,266; July 4.

Velvetone Chemical Co., The, Jacksonville, Fla. Preparation to promote the growth of the hair and for the treatment of dandruff, etc. No. 154,942; July 4.

Vitalized Water Process Co. (See Smith, Carolyn S.)

Waites & Co., Inc., Long Island City, N. Y. Snap fasteners. No. 159,394; July 4.

Wallace & Co., Brooklyn, N. Y. Candies. No. 158,467; July 4.

Warren Brothers Company, Boston, Mass. Pavements and paving material containing bituminous matter. No. 158,498; July 4.

Wertheimer, Sydney B., New York, N. Y. Combined vanity case and corsage shield. No. 161,289; July 4.

West Disinfecting Company, New York, N. Y. Paper towels. No. 162,705; July 4.

Western Electric Company, Incorporated, New York, N. Y. Electric signal or alarm boxes, door openers, sewing machines, etc. No. 111,634; July 4.

Western Electric Company, Incorporated, New York, N. Y. Cord fasteners, hooks, and pulleys, window springs, etc. No. 111,635; July 4.

Westgate Sea Products Co., San Diego, Calif. Canned white tuna fish. No. 157,973; July 4.

West Point Manufacturing Company, Langdale, Ala. Crash, towels, and toweling. No. 163,061; July 4.

White Bros. & Crum Co., Lewiston, Idaho. Fresh deciduous fruits. No. 158,349; July 4.

Wildes, Alice S., doing business as Alys, New York, N. Y. Perfumes. No. 160,523; July 4.

Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Crushers and like machines. No. 158,279; July 4.

Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Crushers and like machines. No. 158,462; July 4.

Willson Goggles, Inc., Reading, Pa. Goggles and protection glasses. No. 160,734; July 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Wilson & Co. Inc., New York, N. Y. Tomato catchup, fruit in sugar, cherries, oysters, etc. No. 129,819; July 4.

Wolf Doll Co. Inc., New York, N. Y. Dolls. No. 162,864; July 4.

Wontshed Brush Co., Troy, N. Y. Shaving brushes. No. 161,218; July 4.

Woodstock Manufacturing Co. Inc., Rochester, N. Y. Children's coaster cars. No. 161,458; July 4.

Woodstock Manufacturing Co. Inc., Rochester, N. Y. Children's rockers. No. 161,469; July 4.

Wooster Brush Company, The, Wooster, Ohio. Brushes. Nos. 160,448–9; July 4.

Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. No. 159,192; July 4.

Yeast Tablet Co., The, South Bend, Ind. Food tonic containing vitamines of yeast. No. 158,511; July 4.

Zinsser, William, & Company, Incorporated, New York, N. Y. Oil paint. No. 158,166; July 4.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acetylene-gas-lighting plant. D. Carmichael. No. 1,422,030; July 4.

Acetylene, Manufacture of products from. B. C. Stuer, and W. Grob. No. 1,421,743; July 4.

Acids, Treating. I. Hechenbleikner and T. C. Oliver. No. 1,421,688; July 4.

Advertising device, Automatic. W. H. Kuhne. No. 1,421,961; July 4.

Aeroplane. C. Peters. No. 1,421,550; July 4.

Aeroplane, Captive. R. Garvey and T. J. Miner. No. 1,421,683; July 4.

Aeroplane construction. W. P. Gary. No. 1,421,934; July 4.

Aeroplane propeller. W. Lindsay. No. 1,421,699; July 4.

Air-brake-pressure retainer. A. Young. No. 1,421,651; July 4.

Air compressor. A. B. Jennings. No. 1,421,484; July 4.

Air heater. M. Hachalachti. No. 1,421,939; July 4.

Aircraft, Apparatus for. F. E. Scholfield. No. 1,421,846; July 4.

Alarm: *See*—
Burglar alarm.

Alloy of refractory metals and forming same. J. A. Yunck. No. 1,422,019; July 4.

Alloy, Zinc. H. Goldschmidt and K. Müller. No. 1,421,686; July 4.

Alumina, Obtaining. R. S. Sherwin. No. 1,422,004; July 4.

Ammonia process, Preparing a permanent and spinnable solution in the cupric. P. H. Minck. No. 1,421,707; July 4.

Amusement apparatus. W. F. Krahe. No. 1,421,960; July 4.

Amusement device. J. C. Callais. No. 1,421,907; July 4.

Amusement device. F. Chapman. No. 1,422,032; July 4.

Antifouling composition. G. D. Coleman. No. 1,421,914; July 4.

Antiskid device. J. L. Donat. No. 1,421,922; July 4.

Arbor press. J. H. Staley. No. 1,421,738; July 4.

Arms, Adjustable connection for actuating. L. G. Collyer. No. 1,421,408; July 4.

Arsenic trichloride, Making. L. H. Milligan. No. 1,421,978; July 4.

Artificial internal members of the human body, Material for. F. Hauptmeyer. No. 1,421,776; July 4.

Auto lock. B. Byers. No. 1,421,401; July 4.

Automobile body. W. F. Kincaid. No. 1,421,788; July 4.

Automobile decking. F. H. Thompson and E. Holmes. No. 1,421,747; July 4.

Automobile guard. V. Fernández. No. 1,421,437; July 4.

Automobile locking device. J. P. Geraghty. No. 1,421,684; July 4.

Automobile radiators, Apparatus for indicating the amount of water in. C. Ford. No. 1,421,930; July 4.

Automobile radiators, Water gauge for. T. I. Taylor. No. 1,421,615; July 4.

Automobile seat. J. H. McCollough, Jr. (Reissue.) No. 15,396; July 4.

Automobile spark indicator. J. L. Klavon. No. 1,421,495; July 4.

Automobile steering mechanism, Locking device for. E. L. B. Von Diezelski. No. 1,421,870; July 4.

Automobile storm curtain. A. F. Randall. No. 1,421,716; July 4.

Automobile wheel. D. S. Greenberg. No. 1,422,050; July 4.

Automobiles, and other motor vehicles, Lubricant-controlling device for automatically controlling the lubricating system of gas engines of. A. J. Rowan. No. 1,421,995; July 4.

Automobiles, Cast wheel for. W. E. Williams. No. 1,421,643; July 4.

Automobiles, Lighting system for. W. F. Penrod. No. 1,421,549; July 4.

Back gauge. G. W. Jacques. No. 1,421,483; July 4.

Bailer structure. F. B. Alldredge. No. 1,421,363; July 4.

Bail. W. H. Clark. No. 1,421,407; July 4.

Band cutter. S. V. Cochrane. No. 1,421,764; July 4.

Bar: *See*—
Spacing bar.

Basket, Sanitary waste. D. E. Watkins. No. 1,421,628; July 4.

Bath-cabinet vaporizer. J. F. Kruse. No. 1,421,502; July 4.

Bathing suits. G. A. Mattern. No. 1,421,704; July 4.

Bearing. A. Kingsbury. No. 1,421,695; July 4.

Bearing. H. C. Knowles. No. 1,421,789; July 4.

Bearing assembly. C. H. Wills. No. 1,421,644; July 4.

Bearing for shafts, etc., Split lubricating. P. G. Bogdanoff. No. 1,421,661; July 4.

Bearing for steam turbines. C. W. Dake. No. 1,421,918; July 4.

Belt. A. F. Garberding. No. 1,421,451; July 4.

Belt shifters, Cone. E. E. Jones. No. 1,421,485; July 4.

Bench and floor clamp. T. Ashworth. No. 1,421,370; July 4.

Beverages, Producing cereal. M. Stahl. No. 1,421,737; July 4.

Billiard-table pockets, Guard for. E. H. Acland. No. 1,421,361; July 4.

Binder or file, Loose-leaf. W. F. Dunning. No. 1,421,677; July 4.

Biplane, Tractor. J. V. Martin. No. 1,421,803; July 4.

Bit: *See*—
Oil-well drill bit.

Blast-roasting apparatus and the like. G. Rigg. No. 1,421,989; July 4.

Board: *See*—
Game board.

Boat, Submersible flying. J. Ardo. No. 1,421,369; July 4.

Bobbinet-making machine. O. Seeberger. No. 1,421,579; July 4.

Boiler. M. J. Healy. No. 1,421,778; July 4.

Bolt: *See*—
King bolt.

Book and cover therefor, Manifold sales. F. Hachmann. No. 1,421,461; July 4.

Bottle and nipple protector, Nursing. W. Weissbeier. No. 1,421,877; July 4.

Bottles, Hand crowner for applying crown caps to. H. J. Lebherz. No. 1,421,698; July 4.

Box: *See*—
Burial box.
Folding box.
Hat box.
Paper box.
Tool box.

Box-tray support. W. L. Buedingen. No. 1,422,028; July 4.

Brake: *See*—
Friction brake.
Hand brake.

Brake beam. C. H. Williams and E. G. Busse. No. 1,421,881; July 4.

Broom-bundle-making machine. H. D. Neff. No. 1,421,812; July 4.

Brushes, Scraper attachment for paint. O. J. Hope. No. 1,421,478; July 4.

Building construction, Metal. T. H. Kane. No. 1,421,950; July 4.

Burglar alarm. J. F. Mackovitch. No. 1,421,972; July 4.

Burial box. F. Lees. No. 1,421,967; July 4.

Burner: *See*—
Gas burner.
Refuse burner.

Butter-fat gauge. J. A. Meeker. No. 1,421,524; July 4.

Cabinet, Kitchenette. D. O. Green. No. 1,421,456; July 4.

Cake or biscuit cutter. B. S. Williams. No. 1,421,749; July 4.

Calculating machines, Control mechanism for. J. F. Robb. No. 1,421,719; July 4.

Calendar. S. O. Bartlett. No. 1,421,379; July 4.

Camera, Reflex. C. Spiro. No. 1,421,735; July 4.

Camera shutter, Curtain. C. Spiro. No. 1,421,736; July 4.

Can: *See*—
Garbage can.

Can-capping tool. F. Coates. No. 1,421,673; July 4.

Cans, Apparatus for casing. C. L. Hooper. No. 1,422,057; July 4.

Candle, Battery. E. Pugsley. No. 1,421,561; July 4.

Cane mills, Indicator and caliper gauge for. W. Langmeier. No. 1,421,504; July 4.

Canning, Treating vegetables in preparation for. W. W. Willison. No. 1,421,750; July 4.

Captive-ball practice device. C. F. Craig. No. 1,421,414; July 4.

Car-control equipment, Safety. G. Macloskie. No. 1,421,796; July 4.

Car-coupling knuckle. O. H. di Le Compte. No. 1,421,421; July 4.

Car door, Grain. J. Siemsen. No. 1,421,592; July 4.

Car-door top guide. P. M. Elliott. No. 1,421,431; July 4.

Car, Freight. M. J. Whelan. No. 1,421,637; July 4.

Car, Refrigerator. L. W. Collins. No. 1,421,913; July 4.

Car, Self-discharging. K. Barth. No. 1,421,378; July 4.

Car, Self-discharging. G. Immand. No. 1,421,482; July 4.
Car wheel. C. S. Zabriskie. No. 1,421,653; July 4.
Cars. Brake release spring mechanism for tram and the like. H. Leah. No. 1,421,697; July 4.
Cars, especially mine locomotives. Worm drive for electric. G. Müller. No. 1,421,534; July 4.
Cars, Lifting iron for motor. C. A. Rofe. No. 1,421,993; July 4.
Carburetor. W. A. Heide. No. 1,422,054; July 4.
Carburetor. H. V. Leahy. No. 1,421,790; July 4.
Carburetor attachment. F. Moore and A. Gray. No. 1,421,530; July 4.
Case: *See*—
Combination comb case. Toilet case.
Caster. A. W. Warnock. No. 1,421,626; July 4.
Caster. J. F. Wolfs. No. 1,421,647; July 4.
Centering device, Coupling. R. E. Powers. No. 1,421,556; July 4.
Chain. J. H. Cooke. No. 1,421,915; July 4.
Chains and the like, Producing hollow wire for manufacturing of. F. Kammerer. No. 1,421,491; July 4.
Chair or the like, Foldable. W. Heerling. No. 1,421,779; July 4.
Chill. W. I. Smith. No. 1,421,596; July 4.
Chimney cleaner. A. H. Sharp and W. D. Cockrell. No. 1,422,001; July 4.
Chopper: *See*—
Cotton chopper.
Christmas-tree support. C. L. Burchess. No. 1,421,398; July 4.
Churn, Power-operated. J. M. Rodger. No. 1,421,571; July 4.
Cinematographic apparatus. E. Mechau. No. 1,421,523; July 4.
Clamp: *See*—
Bench and floor clamp. Rope clamp.
Clasp. W. G. Weber. No. 1,421,874; July 4.
Cleaner: *See*—
Chimney cleaner. Hydrochemical cleaner.
Fowl cleaner.
Cleaning device. R. Millhouse. No. 1,421,529; July 4.
Clip: *See*—
Pen and pencil clip.
Clip device for reels. E. Fulda. No. 1,421,933; July 4.
Clock. W. O'Leary. (Reissue.) No. 15,398; July 4.
Closet, Marine. H. Allan. No. 1,421,362; July 4.
Clothes drier. W. C. Hughes. No. 1,422,061; July 4.
Clothes drier. S. Skelly. No. 1,421,851; July 4.
Clothes hanger. F. C. Nelson. No. 1,421,709; July 4.
Clutch pulley, Friction-. A. L. Preimesberger. No. 1,421,858; July 4.
Clutch release, Automatic. G. E. Maxwell. No. 1,421,521; July 4.
Clutch, Self-adjusting. A. H. Hunt. No. 1,422,062; July 4.
Coating machine, Liquid-. E. F. Müller. No. 1,421,811; July 4.
Cocoa cake or the like, Machine for breaking. W. E. Prescott. No. 1,421,560; July 4.
Coin separating and counting device. H. W. Roeling, E. H. Williams, and J. G. Bauer. No. 1,421,992; July 4.
Coke-quenching receptacle. A. Frankel. No. 1,421,445; July 4.
Comb case, Combination. F. W. Bowler. No. 1,421,392; July 4.
Combination table. G. Floreskul. No. 1,421,629; July 4.
Comforter or wadded quilt. H. A. Calef. No. 1,421,906; July 4.
Commutator. W. Sparks. No. 1,421,734; July 4.
Commutator and battery-charging outfit including the same. D. S. Scarborough. No. 1,421,998; July 4.
Compensator, Starting. P. Dunning. No. 1,421,923; July 4.
Concrete structures, Collapsible mold for. H. J. Kestler. No. 1,421,956; July 4.
Concrete structures, Constructing subaqueous. J. Störe. No. 1,421,857; July 4.
Confection mold. C. P. Speck. No. 1,421,601; July 4.
Confections, Making. C. P. Speck. No. 1,421,600; July 4.
Connecting ring. E. L. Weed. No. 1,421,876; July 4.
Conveyer. A. L. Shaw. No. 1,422,002; July 4.
Cooker. H. Hull. No. 1,421,480; July 4.
Cooler: *See*—
Journal-box cooler.
Correction device. F. C. Hinckley. No. 1,421,472; July 4.
Cotton chopper. F. C. Hall. No. 1,422,051; July 4.
Cotton compress. F. L. White. No. 1,422,014; July 4.
Counter-forming machine, Automatic. A. F. Jones. No. 1,421,947; July 4.
Counter, Order-filling. F. A. Ferris. No. 1,421,679; July 4.
Counters, Display attachment for. W. O. Melvin. No. 1,421,806; July 4.
Coupling: *See*—
Jewelry coupling.
Creasing mechanism. A. Novick. No. 1,421,817; July 4.
Cremation furnace. A. H. Davidson and S. Sundelius. No. 1,421,919; July 4.
Crank holder. M. Thn. No. 1,421,860; July 4.
Cultivator. M. F. Watkins. No. 1,421,872; July 4.
Cultivator attachment. M. R. Sims. No. 1,421,593; July 4.
Current transformer, Direct-. A. F. Nesbit. No. 1,421,538; July 4.
Cushion lock, Safety steel strap. R. W. Saunders. No. 1,421,726; July 4.
Cutter: *See*—
Band cutter. Loom-temple thread cutter.
Glass cutter. Self-oiling rotary cutter.
Damper, Vibration. O. Junggren. No. 1,421,785; July 4.
Depitting machine, Date-. C. S. Leonard. No. 1,421,565; July 4.
Derailing guard. F. Zeis. No. 1,422,021; July 4.
Desk, Flat-top roll-cover. R. H. Allwork. No. 1,421,357; July 4.
Desk, Office. F. Bianchi y Reche. No. 1,421,564; July 4.
Differential. J. Ross. No. 1,421,834; July 4.
Direction indicator. W. J. Schafer. No. 1,421,727; July 4.
Dishwashing machine. C. Olson. No. 1,421,543; July 4.
Dispensing device. J. E. Hawley and A. W. Capps. No. 1,421,777; July 4.
Display book. M. Schlosser. No. 1,421,574; July 4.
Display container. H. B. Beamy and C. L. Johnson. No. 1,421,384; July 4.
Door closer and check. W. J. Bryon. No. 1,421,666; July 4.
Door hanger. A. J. Hayes. No. 1,421,941; July 4.
Door-holding device. N. B. Hurd. No. 1,421,691; July 4.
Door-operating appliances. J. G. Robinson. No. 1,421,721; July 4.
Door-securing device. H. Thorne. No. 1,421,746; July 4.
Doors of self-discharging receptacles, Operating mechanism for the. F. Finckh. No. 1,421,439; July 4.
Drier: *See*—
Clothes drier.
Drill. J. C. Fitzgerald. No. 1,421,928; July 4.
Drilling machine. T. P. Caulkins. No. 1,422,031; July 4.
Drying machine. G. Stone. No. 1,421,856; July 4.
Drying molds. L. R. Lemoine. No. 1,421,791; July 4.
Dust guard. H. C. Gamage. No. 1,421,449; July 4.
Dye for documents, Making an indestructible black stamp. J. Schiffmann. No. 1,421,728; July 4.
Easel for florists' use. C. Smith. No. 1,421,595; July 4.
Electric apparatus for propelling projectiles. A. L. O. Fauchon-Villeplee. No. 1,421,435; July 4.
Electric braking. P. W. Forsberg. No. 1,421,931; July 4.
Electric generating unit, Automatic. W. W. Bucher. No. 1,422,027; July 4.
Electric-light fixture. R. M. Beard. No. 1,421,382; July 4.
Electric motor. C. L. Weltner. No. 1,421,634; July 4.
Electric switch. C. C. Stirling. No. 1,421,853; July 4.
Electric time-switch mechanism. A. R. Rosamond. No. 1,421,833; July 4.
Electric water heater. A. M. Goldberg. No. 1,421,937; July 4.
Electrical heating unit. R. G. Kloeffler. No. 1,421,959; July 4.
Electrostatic separation of finely-divided discrete material, Process and apparatus for. G. R. Brown. No. 1,422,026; July 4.
Elevator. C. P. Kininmonth. No. 1,421,787; July 4.
Elevator controller. R. A. Isenberg. No. 1,421,945; July 4.
Emergency brake, antiskidding, and antitheft device. M. Pichon. No. 1,421,910; July 4.
Engine: *See*—
Internal-combustion engine. Rotary steam engine.
Engines, Attachment plug for oiling systems for internal-combustion. R. W. Saunders. No. 1,421,725; July 4.
Engines, Auxiliary inlet device for internal-combustion. C. Pohl. No. 1,421,564; July 4.
Engines, Primer for internal-combustion. H. D. Waterhouse. No. 1,421,627; July 4.
Engines, Thermostatic device for cooling systems of internal-combustion. C. L. Rayfield. No. 1,421,830; July 4.
Envelope filling and closing machine. G. F. Russ. No. 1,421,835; July 4.
Envelope, Lock-sealed. M. H. Flaherty. No. 1,422,045; July 4.
Envelope-making machines, Gripper mechanism for. A. E. Augenstine. No. 1,421,889; July 4.
Envelopes, Machine for making lined. A. Novick. No. 1,421,816; July 4.
Envelopes, Machine for sealing and stamping. M. Vidaver. No. 1,421,867; July 4.
Esters, Manufacture of. J. A. Steffens. No. 1,421,604; July 4.
Esters, Manufacturing. J. A. Steffens. No. 1,421,605; July 4.
Etching or like machines. W. S. Eaton. Nos. 1,421,426–7; July 4.
Ethylene, Producing. M. C. Whitaker and A. A. Backhaus. No. 1,421,640; July 4.
Explosive engines, Combined muffler and deodorizer for. F. Embanks. No. 1,421,432; July 4.
Eye protector. H. H. Styll. No. 1,421,744; July 4.
Eyeglass mountings, Gauge for. M. Hansen. No. 1,421,465; July 4.
Fabrics, Means for cutting. R. Loeb. No. 1,421,969; July 4.
Fan. J. T. Hope. No. 1,421,477; July 4.
Farming machine. J. H. Lewis. No. 1,421,968; July 4.
Feeding machine, Article-. O. N. Ritchie and H. C. Boykin. No. 1,421,569; July 4.
Fender: *See*—
Life saving fender. Vehicle fender.

Fibrous materials, Treatment of. D. McGill. No. 1,421,703; July 4.
Filing device. R. McKnight. No. 1,421,515; July 4.
Film holder. W. S. Brackney. No. 1,422,029; July 4.
Filter. D. A. Jones and C. R. Martin. No. 1,421,948; July 4.
Fire extinguisher. H. S. Mitchell. No. 1,421,979; July 4.
Fire-extinguishing agent. G. F. Ferguson and L. E. Eckelmann. No. 1,421,436; July 4.
Fire-extinguishing composition and preparing same. J. B. Miller. No. 1,421,527; July 4.
Fire-extinguishing solution. L. E. Eckelmann. No. 1,421,428; July 4.
Fire-extinguishing system. F. A. Epps. No. 1,421,433; July 4.
Fish lure. C. M. Rodgers and A. W. Wenger. No. 1,421,991; July 4.
Fishline reel. W. Schmid. No. 1,421,839; July 4.
Flashlight. L. A. Miller. No. 1,421,528; July 4.
Flexible articles, Method and apparatus for manipulating. J. R. Gammeter. No. 1,421,450; July 4.
Floor grating. W. L. Pattison. No. 1,421,827; July 4.
Flour feeder. J. W. Benedict. No. 1,421,896; July 4.
Fluid-translating device. H. F. Schmidt. Nos. 1,421,840–5; July 4.
Fluids, Method and apparatus for pumping. A. G. M. Michell. No. 1,421,976; July 4.
Folding box. C. C. Miller. No. 1,421,526; July 4.
Folding table. L. Nolty. No. 1,421,541; July 4.
Foodstuffs, Apparatus for chopping. G. W. Gregory. No. 1,421,458; July 4.
Fowl cleaner. W. A. Bruck. No. 1,421,397; July 4.
Fractionating apparatus. H. L. Allan. No. 1,421,586; July 4.
Frame: *See*—
Picture frame. Reel frame.
Printing frame.
Friction brake. G. L. Smith. No. 1,422,006; July 4.
Friction lining. H. Coty and O. D. Gray. No. 1,421,412; July 4.
Fruit cutting and coring device. G. Vafiades and J. Koukos. No. 1,422,066; July 4.
Fuel. Engine. M. C. Whitaker. No. 1,421,879; July 4.
Fuel vaporizing and economizing apparatus. C. V. Stevenson. No. 1,421,606; July 4.
Furnace: *See*—
Cremation furnace. Pulverized-fuel furnace.
Furnace. T. A. Peebles. (Reissue.) No. 15,399; July 4.
Furnace. A. Smallwood. No. 1,421,882; July 4.
Fuse. H. H. Baker. No. 1,421,876; July 4.
Game. J. B. Abele. No. 1,421,656; July 4.
Game. A. E. D. B. Rod. No. 1,421,570; July 4.
Game. E. F. Schmidt. No. 1,421,575; July 4.
Game board. J. R. Donnelly. No. 1,422,042; July 4.
Game board and game. R. G. Ebert. No. 1,421,678; July 4.
Game trap. M. J. Svehla. Nos. 1,421,610–11; July 4.
Garbage can, Sanitary. P. Kane. No. 1,422,064; July 4.
Garment. D. Freeman. No. 1,421,446; July 4.
Garment construction. J. Seewald. No. 1,421,849; July 4.
Garment hanger. H. Taubman. No. 1,421,614; July 4.
Gas, Apparatus for purifying coal. F. Soddy. No. 1,422,008; July 4.
Gas burner. E. H. and M. C. Shuler. No. 1,421,591; July 4.
Gas by means of charcoal, Method of stripping the illuminants from and of purifying coal. F. Soddy. No. 1,422,007; July 4.
Gas cock and jet ping therefor. E. L. Claus. No. 1,422,033; July 4.
Gas in another, Method of and apparatus for detecting the presence of one. C. H. M. Roberts. No. 1,421,720; July 4.
Gases of cement kilns, Utilizing waste heat. J. E. Bell. No. 1,421,386; July 4.
Gases, Means for regulating the flow of compressed. A. E. Bawtree. No. 1,421,381; July 4.
Gasoline and oil saver. W. A. Richey and C. H. Rowles. No. 1,421,567; July 4.
Gate: *See*—
Train-operated gate.
Gate. T. J. Drake. No. 1,421,422; July 4.
Gate fastener. H. H. Schaefer. No. 1,421,578; July 4.
Gauge: *See*—
Back gauge. Liquid-level gauge.
Butter-fat gauge. Pressure gauge.
Gauge. H. P. Kraft and M. C. Schweinert. No. 1,421,501; July 4.
Gear mechanism, Change-speed-. H. J. Mansell and C. D. Fry. No. 1,421,799; July 4.
Gearing. T. H. Mars. No. 1,421,800; July 4.
Gearing, Cam. H. J. Schmick. No. 1,422,060; July 4.
Glass cutter, Rotary. C. F. Doerr. No. 1,421,821; July 4.
Glass, Method and apparatus for producing sheet. J. P. Crowley and C. A. Rowley. No. 1,422,036; July 4.
Glass outlets, Closure for molten-. V. Mulholland. No. 1,421,810; July 4.
Glass, Producing nonshatterable. O. S. Marckworth. No. 1,421,974; July 4.
Glasses, Machine for grinding beveled rim surfaces on spectacle. O. Henker. No. 1,422,068; July 4.
Glue, gelatine, and the like, Apparatus for the extraction of. F. H. Tunnell. No. 1,421,620; July 4.
Glue roll. P. Zalkind. No. 1,421,654; July 4.
Golf-bag ball receptacle. C. B. Kemp. No. 1,421,955; July 4.
Governor. E. J. Blake. No. 1,421,660; July 4.
Grab-bucket construction, Single-line. A. M. Shearer. No. 1,422,003; July 4.
Grading machine. E. Prendergast. No. 1,421,559; July 4.
Grain crib. W. A. Caldwell. No. 1,421,763; July 4.
Grain-door forcing device. W. A. McGann. (Reissue.) No. 15,397; July 4.
Grate, Shaker. S. H. Sorrell. No. 1,421,598; July 4.
Grinder. C. L. Cook. No. 1,422,035; July 4.
Grinder and shredder. H. J. Shelton. No. 1,421,731; July 4.
Guide bars, Aligning instrument for crosshead. A. R. Bateman. No. 1,421,895; July 4.
Gun sight. C. Pohl. No. 1,421,553; July 4.
Guns, Compressed air recuperator for. E. Schneider. No. 1,421,576; July 4.
Halogen compounds, Preparation of. W. O. Snelling. No. 1,421,733; July 4.
Hand brake. J. F. O'Connor. No. 1,421,823; July 4.
Hand lamp, Battery. C. F. Burgess. No. 1,421,390; July 4.
Handle: *See*—
Saw handle.
Handle joint. W. E. Seastrom. No. 1,421,848; July 4.
Hanger: *See*—
Clothes hanger. Garment hanger.
Door hanger.
Hat box. A. Fogel. No. 1,421,443; July 4.
Headlight. A. S. Limpert. No. 1,421,506; July 4.
Headlight-controlling mechanism. W. F. Harrington. No. 1,421,775; July 4.
Headlight, Dirigible. A. L. Brogden. No. 1,422,025; July 4.
Headlight for locomotives, Dirigible. G. H. Anthony. No. 1,421,368; July 4.
Headlights, Nonglaring attachment for. C. Schopke. No. 1,421,847; July 4.
Healing apparatus, Magnetic. S. Maeshima. No. 1,421,516; July 4.
Heater: *See*—
Air heater. Water heater.
Electric water heater.
Heating system. J. H. Brown. No. 1,421,902; July 4.
Hides and preparing the same, Tanning substance for tanning animal. O. Löw-Beer. No. 1,421,701; July 4.
Hides and skins, Machine for treating. C. P. Bossert. No. 1,421,662; July 4.
Hinge, Farm-gate. R. McLaughlin. No. 1,421,784; July 4.
Hinge joint. G. W. Goodridge. No. 1,422,048; July 4.
Hoist, Fluid. J. P. Heil. No. 1,421,469; July 4.
Hook: *See*—
Mud hook. Tackle hook.
Hoop-forming machine. W. W. Putney. No. 1,421,820; July 4.
Hoop-stretching device. W. B. Gilbert. No. 1,421,835; July 4.
Hydrochemical cleaner. B. McCarty. No. 1,421,971; July 4.
Hydrochinon, Making. H. Von Bramer. No. 1,421,869; July 4.
Ice-cream freezers, Support for. F. D. Rugg. No. 1,421,724; July 4.
Ignition and lighting switch. L. D. Kellogg. No. 1,421,493; July 4.
Illuminating apparatus. J. A. Lockwood. No. 1,421,509; July 4.
Illuminating mechanism. D. W. Schaeffer. No. 1,421,838; July 4.
Incense burner and perfumer. L. Weidlich and A. J. Flauder. No. 1,421,633; July 4.
Index or file. C. S. Campbell and W. H. Day. No. 1,421,670; July 4.
Indicator: *See*—
Direction indicator. Railway-track indicator.
Indicator lock. L. J. Corbitt. No. 1,421,411; July 4.
Ink fountains, Page cut-off device for. H. A. W. Wood. No. 1,422,017; July 4.
Insole. L. E. Topham. No. 1,421,619; July 4.
Insulating container and the like. W. L. Wright. No. 1,421,649; July 4.
Internal-combustion engine. A. J. Sletten. No. 1,421,594; July 4.
Internal-combustion engine. J. H. Wedig. No. 1,421,632; July 4.
Internal-combustion engine. G. G. Westerfield. No. 1,421,878; July 4.
Iron: *See*—
Electric press iron.
Iron from solutions containing aluminum, Removing. T. Majdell. No. 1,421,804; July 4.
Irons, Stand and automatic switch for electric. A. J. Shirk and S. Cohen. No. 1,421,586; July 4.
Irons, Stand and automatic switch for electric. A. J. Shirk and S. Cohen. No. 1,421,850; July 4.
Jack: *See*—
Lifting jack.
Jar holder. T. G. Melish. No. 1,421,705; July 4.
Jewelry coupling. A. Bippart. No. 1,421,888; July 4.
Joint: *See*—
Handle joint. Universal joint.
Hinge joint.
Journal-box cooler. J. Hinson. No. 1,421,473; July 4.

Kapok, Handling. L. G. Broel. No. 1,421,663; July 4.
King bolt. A. Egbert and E. Holmes. No. 1,421,768; July 4.
Knitted cap. B. Spector and L. E. Rosenberg. No. 1,421,602; July 4.
Label, Nursery. G. I. Colburn. No. 1,421,674; July 4.
Ladder construction. L. H. Badger. No. 1,421,372; July 4.
Lamp. A. J. Christmas. No. 1,421,406; July 4.
Lamp extinguisher. T. H. B. Howard. No. 1,422,059; July 4.
Lamp shade. J. M. Crucet. No. 1,421,415; July 4.
Lapping machine. W. S. Becker. No. 1,421,659; July 4.
Latch for steering controllers, Safety. J. Hoffman. No. 1,421,475; July 4.
Level indicator, Distant boiler-water-. H. S. Parks. No. 1,421,711; July 4.
License-plates fastener. G. Pendergast and R. F. Ethier. No. 1,421,548; July 4.
Life-saving fender. J. E. Wyckoff. No. 1,421,650; July 4.
Lifting jack. A. and H. E. Shrieves. No. 1,421,590; July 4.
Light: *See*—
Sadiron light.
Light-diffusing medium and making the same. L. W. Eberlin and S. E. Sheppard. No. 1,421,924; July 4.
Link. J. V. Sandquist. No. 1,421,997; July 4.
Liquid-distributor discharge mechanism. F. E. Bager. No. 1,421,373; July 4.
Liquid-level gauge. I. Andersson. No. 1,421,365; July 4.
Liquids of different density, Separator employed for the separation of. W. H. Bateman. No. 1,421,658; July 4.
Lock: *See*—
Auto lock. Indicator lock.
Cushion lock.
Lock. G. F. Mayer. No. 1,421,522; July 4.
Locking devices with electric locking of the releasing means, Electromagnet for momentarily releasable. K. F. Kappes. No. 1,421,951; July 4.
Locking means. D. A. Raggio. No. 1,421,563; July 4.
Locomotive stokers, Driving mechanism for. J. W. Rohrer. No. 1,421,994; July 4.
Loom rock-shaft bearing. J. A. Wix. No. 1,422,016; July 4.
Loom-temple thread cutter. J. Northrop. No. 1,421,915; July 4.
Looms, etc., Device for dampening the warp on. H. Koch. No. 1,421,498; July 4.
Looms, Wire motion for. J. F. Benoit. No. 1,421,897; July 4.
Lubricating device. G. Fuegel and H. Schmid. No. 1,421,681; July 4.
Lubricating device. W. P. Seng. No. 1,421,582; July 4.
Lubrication apparatus, provided with pumps, Forced-. K. G. F. Hellsing. No. 1,421,470; July 4.
Lubricator: *See*—
Spring lubricator. Valve-stem lubricator.
Lubricator. S. P. Jones. No. 1,421,487; July 4.
Manometer. C. W. Stancliffe. No. 1,421,739; July 4.
Map holder. W. W. Wright. No. 1,421,883; July 4.
Marking machine, Electric fruit-. L. Neuenschwander. No. 1,421,539; July 4.
Massage apparatus. C. Arnao. No. 1,421,756; July 4.
Mat: *See*—
Rubber mat.
Measuring and cost-computing machine, Cloth-. G. C. Hosch and G. B. Kyle. No. 1,421,943; July 4.
Measuring apparatus, Liquid-. H. R. Koehler. No. 1,421,499; July 4.
Measuring machines, Lock for notching shears of. D. Turner. No. 1,421,863; July 4.
Merry-go-round and teeter board, Combined. A. F. Haumerson. No. 1,421,468; July 4.
Metal compound powder and production of same. W. P. Heskett. No. 1,421,471; July 4.
Metal pipe, Lapping. S. J. Lindberg. No. 1,421,507; July 4.
Metallic containers, Removable false head for. C. T. Draper. No. 1,422,043; July 4.
Meter. E. B. Cade. No. 1,421,905; July 4.
Meter box cover. J. W. Calhoun. No. 1,421,669; July 4.
Milk, Automatic alarm mechanism for pasteurizing. P. Malcamo. No. 1,421,517; July 4.
Milk skimmer. C. E. Chambers. No. 1,421,909; July 4.
Milk tanks, Friction drive for. G. H. White. No. 1,421,641; July 4.
Milking-machine system. C. H. Hapgood. No. 1,421,773; July 4.
Mine-fire-fighting apparatus. J. Klewanech. No. 1,421,496; July 4.
Minerals, Collecting and purifying. W. E. Trent. No. 1,421,862; July 4.
Mining machines, Support for. T. E. Pray. No. 1,421,557; July 4.
Mold: *See*—
Confection mold. Popcorn mold.
Molding composition. J. L. Keller. No. 1,421,954; July 4.
Motor: *See*—
Electric motor. Spring-operated motor.
Motor, and other cycles, Rear brake for. F. Pletscher. No. 1,241,552; July 4.
Motors, Mounting for outboard. R. B. Owen. No. 1,421,710; July 4.
Motors, Safety crank for internal-combustion. S. C. Waits. No. 1,421,624; July 4.
Mud hook. C. N. Gerosa. No. 1,421,452; July 4.
Musical instruments, Keyboard for. P. Hans. No. 1,421,464; July 4.
Needle, Embroidery. L. D. Hover. No. 1,421,479; July 4.
Numbering head. C. A. Meisel. No. 1,421,525; July 4.
Nut. J. A. Wheeler. No. 1,421,638; July 4.
Oil-well drill bit. R. J. Brown. No. 1,421,396; July 4.
Oils, Treatment of hydrocarbon. D. T. Day. No. 1,422,038; July 4.
Oiling device. W. P. Seng. No. 1,421,583; July 4.
Ophthalmic mounting. E. L. Schumacher. No. 1,421,729; July 4.
Ordnance breech mechanism. A. T. Dawson and G. T. Buckham. No. 1,422,037; July 4.
Ores by flotation, Concentration of. G. E. Sheridan and G. G. Griswold, Jr. No. 1,421,585; July 4.
Ovens, Air-circulating system for industrial. W. C. Ebmka. No. 1,421,429; July 4.
Packaging equipment, Automatic. E. B. Elder. No. 1,421,925; July 4.
Packing for mercury dashpots. W. Edwards. No. 1,421,767; July 4.
Pad: *See*—
Resilient stamp pad.
Paint and making same. C. A. Ward. No. 1,421,625; July 4.
Paint composition. J. B. McCartney. No. 1,421,970; July 4.
Pan with overflow-alarm device. A. Renda. No. 1,421,717; July 4.
Paper box. H. C. Kessler. No. 1,421,494; July 4.
Paper-making machine. A. Aldrich. Nos. 1,421,753–4; July 4.
Paper-making machine. A. Aldrich and A. L. Larson. No. 1,421,752; July 4.
Paper-making machines, Method of and apparatus for feeding pulp to the forming wires of. J. M. Murray. No. 1,421,981; July 4.
Paper material container and the like. W. L. Wright. No. 1,422,018; July 4.
Paper winder, Toilet-. L. Scusa. No. 1,421,730; July 4.
Paring machine, Vegetable-. F. M. Schaefer. No. 1,421,837; July 4.
Pattern-transfer machine. P. Yohns. No. 1,421,884; July 4.
Pavement. F. A. Brotsch, Jr. No. 1,421,901; July 4.
Paving blocks, building blocks, and the like, Composition of mattter for. G. S. and C. W. Wright. No. 1,421,751; July 4.
Pen, Ruling. C. A. Green and H. F. Schuh. No. 1,421,455; July 4.
Pencil and pen clip. A. Allen. No. 1,421,657; July 4.
Pencil grip. V. Murdock. No. 1,421,535; July 4.
Pencil, Magazine. J. Straka. No. 1,421,742; July 4.
Phonograph. J. Youngquist. No. 1,421,652; July 4.
Phonograph disks, Display rack for. C. A. Bower. No. 1,421,391; July 4.
Photographic-printing machine. M. L. Cossitt. No. 1,421,413; July 4.
Photogravure press, Rotary. H. V. Biery. No. 1,421,360; July 4.
Picture frame. L. Fritz. No. 1,421,448; July 4.
Pie-making machine. F. C. Ellersen. No. 1,421,430; July 4.
Pin guide. G. C. L. Tisch. No. 1,421,861; July 4.
Pipe: *See*—
Lapping metal pipe.
Pipe lines, Safety control for hydraulic. E. Buehle and E. C. Hutchinson. No. 1,421,904; July 4.
Piston packing. L. C. Marshall. No. 1,421,802; July 4.
Pitcher, tumbler, and package. P. Kucera. No. 1,421,696; July 4.
Platform, Movable painter's. E. J. Sturm and M. Sturnson. No. 1,421,609; July 4.
Plating machine. S. A. Cohen. No. 1,421,912; July 4.
Plow, Disk. S. C. Attaway. No. 1,421,371; July 4.
Pocket for overalls, working shirts, and the like, Watch. C. T. Masson. No. 1,421,519; July 4.
Pop-corn mold. N. B. Post. No. 1,421,555; July 4.
Porosity, Apparatus for indicating. C. Buberl. No. 1,421,903; July 4.
Powder, Bleaching. E. T. Ladd and E. C. Speiden. No. 1,421,503; July 4.
Power transmission and electric braking. A. F. Batchelder. No. 1,421,894; July 4.
Power transmission and electric braking. F. H. Pritchard. No. 1,421,828; July 4.
Power-transmission apparatus. W. C. Reed. No. 1,421,565; July 4.
Power-transmitting mechanism. E. H. Belden. No. 1,421,761; July 4.
Press: *See*—
Arbor press. Rotary photogravure press.
Press Iron Electric. A. J. Shirk and S. Cohen. Nos. 1,421,587–9; July 4.
Pressure gage. H. E. Harder. No. 1,421,774; July 4.
Pressure-operated switch, Automatic. W. L. Hamilton. No. 1,421,940; July 4.
Printed products, Machine for counting out and marking. C. Nordfors. No. 1,421,983; July 4.
Printing couple. C. Nordfors. No. 1,421,982; July 4.
Printing frame. J. D. Thompson. No. 1,421,859; July 4.

Printing machine. F. De Minico. No. 1,421,920; July 4.
Printing presses, Finger guard for. G. H. Dufour. No. 1,421,424; July 4.
Printing presses, Perforator for. D. J. Deegan. No. 1,421,417; July 4.
Propeller. F. L. Guillemet. No. 1,421,460; July 4.
Pulley bushing, Split loose. T. F. Barry. No. 1,421,377; July 4.
Pulley, Tight band. H. W. Morgan and E. P. Holder. No. 1,421,708; July 4.
Pulling-over machine. E. Brothers. No. 1,421,804; July 4.
Pulp and the like, Drum for drying. C. L. Dean. No. 1,422,039; July 4.
Pulp, Method of and apparatus for washing. O. B. Brown, H. K. Moore, H. Parker, and H. M. Martinson. No. 1,421,664; July 4.
Pulp-thickening machine. C. H. Allen. No. 1,421,364; July 4.
Pulverized-fuel furnace. L. H. Bergman. No. 1,421,898; July 4.
Pulverulent material, Concentrating. F. Ondra. No. 1,421,984; July 4.
Pump, Oil. H. E. Rhoads. No. 1,421,718; July 4.
Pump, Oil. H. H. Watkins. No. 1,421,629; July 4.
Pump, Rotary. H. J. Edwards. No. 1,421,766; July 4.
Pumps, Device for preventing the penetration of air into centrifugal. B. Bischof. No. 1,421,389; July 4.
Pumps, Suction intake for. J. B. Fisher. No. 1,421,440; July 4.
Pumping apparatus. R. Conrader. No. 1,421,409; July 4.
Rack: *See*—
Yarn rack.
Radiator. E. Ochsner. No. 1,421,542; July 4.
Radiator. D. O. Parkin. No. 1,421,546; July 4.
Rail fastener. J. P. Gardner. No. 1,421,682; July 4.
Rail fastening. L. D. Gregg. No. 1,421,457; July 4.
Railway switch. T. C. Folsom. No. 1,421,444; July 4.
Railway switch. D. E. Lahey. No. 1,421,963; July 4.
Railway-switch filler. D. E. Lahey. No. 1,421,962; July 4.
Railway-track construction. A. Tauchar. No. 1,422,010; July 4.
Railway track indicator. F. Garagnani. No. 1,422,047; July 4.
Railway-traffic-controlling system. G. C. Whitney. No. 1,421,880; July 4.
Railways, Axle-recording device for. W. Kolbe and J. Fritzen. No. 1,421,500; July 4.
Ratchet tool, Combination. A. R. Linden. No. 1,421,792; July 4.
Reel: *See*—
Fishing reel.
Reel frame. H. Koch and H. Müller. No. 1,421,497; July 4.
Refrigerator attachment. C. F. Stiel. No. 1,421,607; July 4.
Refuse burner. J. T. Stoddard. No. 1,421,741; July 4.
Register. J. S. Boyd. No. 1,422,024; July 4.
Resilient wheel. H. R. Shafer. No. 1,421,584; July 4.
Revolver holster, Safety. J. Schussler. No. 1,421,578; July 4.
Ring: *See*—
Connecting ring.
Roads, Making. L. S. van Westrum. (Reissue.) No. 15,401; July 4.
Roll, Snapping. H. F. Gritzmacher. No. 1,421,459; July 4.
Roller: *See*—
Tandem roller.
Rolling mills, Lubricating device for. G. E. Melown. No. 1,421,805; July 4.
Rope clamp. C. Beecken. No. 1,421,385; July 4.
Rotary cutter, Self-oiling. C. J. Petrasek. No. 1,421,713; July 4.
Rubber garter. E. G. Howard. No. 1,421,690; July 4.
Rubber mat. C. H. Oakley. No. 1,421,818; July 4.
Rubber sheets, Apparatus for producing thin. O. H. Macklin. No. 1,421,795; July 4.
Saddler's chest. L. B. Craig. No. 1,421,916; July 4.
Sadiron light. C. L. Malloy. No. 1,421,973; July 4.
Safe-deposit construction. J. Freyberg and L. F. Wubbolding. No. 1,421,770; July 4.
Sand gathering and elevating machine. E. O. Beardsley and W. F. Piper. No. 1,421,383; July 4.
Sash fastener, Storm-. W. Mandel. No. 1,421,798; July 4.
Sash-locking device. J. Zak. No. 1,422,020; July 4.
Saw. J. G. Mattson. No. 1,421,520; July 4.
Saw, Frame. G. Müller. No. 1,421,533; July 4.
Saw handle, Crosscut-. J. F. Williams. No. 1,422,015; July 4.
Scales, Thermostat for portable. L. A. Osgood. No. 1,421,825; July 4.
Scraper. H. Baum. No. 1,421,380; July 4.
Scraper, charger, and tamper, Combination. T. J. Avery. No. 1,421,358; July 4.
Screw cap. J. M. Abrams. No. 1,421,685; July 4.
Sealing device. V. Puc. No. 1,421,714; July 4.
Seat: *See*—
Automobile seat.
Seine-operating mechanism. T. Running. No. 1,421,996; July 4.
Sewage purifier. J. P. Ball. No. 1,421,891; July 4.
Sewing-machine looper mechanism. R. R. Hughes, Jr. No. 1,422,060; July 4.
Sewing-machine shuttles, Adjunct for. L. E. Weaver. No. 1,421,873; July 4.
Sewing machines, Presser-foot attachment for. E. J. Maloney. No. 1,421,797; July 4.
Sewing machines, Stitch-forming mechanism for chain-stitch. A. F. Fifield. No. 1,421,438; July 4.
Shaft and making same, Flexible. C. H. Veeder. No. 1,421,623; July 4.
Sheet-straightening apparatus. P. Volkmere. No. 1,421,868; July 4.
Shell. H. E. Winans. No. 1,421,882; July 4.
Shim. F. J. Flinn. No. 1,421,441; July 4.
Ship's log. B. Chernikeeff. No. 1,421,405; July 4.
Ships, Method of and apparatus for raising sunken. A. Allan. No. 1,421,887; July 4.
Shipping device. R. H. Langford. No. 1,421,964; July 4.
Shirt bosom and body machine. C. H. Boyuls. (Reissue.) No. 15,395; July 4.
Shock absorber. K. Mickley. No. 1,421,977; July 4.
Shock absorber. J. F. O'Connor. Nos. 1,421,819–20; July 4.
Shock-absorbing mechanism, Friction. J. F. O'Connor. Nos. 1,421,821–2; July 4.
Shoe lasts, Protecting. F. L. Morse. No. 1,421,980; July 4.
Shoe-shining machine. J. Smythe. No. 1,421,597; July 4.
Shoe-shining parlor. D. D. Wolfe. No. 1,421,646; July 4.
Shoe-string tips. R. F. Schiller. No. 1,421,999; July 4.
Showcard, calendar, and the like. W. J. Anderson. No. 1,421,367; July 4.
Sifter, Ash. P. Mischke. No. 1,421,809; July 4.
Sifter, Ash. R. A. Thiede. No. 1,422,011; July 4.
Signal: *See*—
Switchboard signal.
Signal. V. R. Rindt. No. 1,421,990; July 4.
Signaling device. L. S. Kellholts. No. 1,421,953; July 4.
Signs or similar articles, Means for supporting. H. M. Stanton. No. 1,421,603; July 4.
Siphon, Double-knee. F. Moras. No. 1,421,531; July 4.
Skate, Roller. J. Muck. No. 1,421,532; July 4.
Skids, Antifriction. G. L. Noll. No. 1,421,540; July 4.
Slippers, Blank for. M. Hirshfield. No. 1,421,474; July 4.
Snap fasteners, Mechanism for sorting the socket members of. V. Puc. No. 1,421,715; July 4.
Snowplow, Dual rotary. J. C. Chladek. No. 1,421,671; July 4.
Snubber. D. V. Boureau. No. 1,421,900; July 4.
Socket switch, Pull-. R. D. Smith. No. 1,421,853; July 4.
Sole tacker. C. F. Ziegler. No. 1,421,655; July 4.
Soot blower. J. M. Colven and A. Lowy. No. 1,421,675; July 4.
Sound recording and reproducing machine. W. E. Birket. No. 1,422,022; July 4.
Sound reproducers, Apparatus for resetting. J. J. Riser. No. 1,421,568; July 4.
Sounder, Deep-sea. W. E. Clarke. No. 1,421,672; July 4.
Spacing bar. F. L. Metzger. No. 1,421,807; July 4.
Speed-changing mechanism. W. I. Wheeler. No. 1,421,689; July 4.
Speed-indicating device. J. V. Bosque and P. Giró y Casañas. No. 1,421,390; July 4.
Spinning cotton rovings, High slip-draft apparatus for. O. Latsch. No. 1,421,965; July 4.
Spinning machines, Ring-rail brace for. J. R. Hanson and J. R. Shepherd. No. 1,421,466; July 4.
Spool machines, Feed wheel for. C. S. Brown. No. 1,421,895; July 4.
Spotlight. F. L. Humiston. No. 1,421,944; July 4.
Spring: *See*—
Vehicle spring.
Spring horn and bumper support, Combined. W. R. Stuckland. No. 1,421,608; July 4.
Spring lubricator. J. F. A. Phillips. No. 1,421,551; July 4.
Spring-operated motor. J. C. Foster. No. 1,421,932; July 4.
Spring suspension. E. H. Belden. No. 1,421,759; July 4.
Springs, Machine for making. R. D. Reese. No. 1,421,566; July 4.
Sprocket wheel. R. J. Riley. No. 1,421,832; July 4.
Stamp pad, Resilient-. R. H. Kee and W. K. Munson. No. 1,421,952; July 4.
Stamping machine. T. Lund. No. 1,421,511; July 4.
Stamping machine for cutting out articles from sheet metal. T. H. Wilson. (Reissue.) No. 15,402; July 4.
Starting device, Motor-. J. O. Q. Johnson. No. 1,422,063; July 4.
Steam cooker. W. A. Duncan. No. 1,421,425; July 4.
Steam engine, Rotary. C. O. Baner. No. 1,421,892; July 4.
Stereotyper's and printer's tool. S. B. Hopkins. No. 1,421,689; July 4.
Steriliser for instruments and dressings. O. Barta. No. 1,421,893; July 4.
Stoker, Mechanical. J. J. Dersom. No. 1,421,419; July 4.
Storage-battery containers, Making. T. A. Willard. No. 1,421,748; July 4.
Stove, Camp. L. M. Boyle. No. 1,421,393; July 4.
Stove for ships, Self-leveling. G. W. Baker. No. 1,421,890; July 4.
Strainer for milk cans, pails, and the like. N. J. Van Ness. No. 1,421,622; July 4.

Strap fastener. C. S. Nonnemacher. Nos. 1,421,813–4; July 4.
Strip-folding mechanism. F. M. Joslin. No. 1,421,489; July 4.
Strip or sheet metal structure. A. P. Thurston. No. 1,421,618; July 4.
Stud and socket fastener. G. A. Holmes. No. 1,421,476; July 4.
Sulphur, Process and apparatus for melting. H. S. Davis and R. F. Bacon. No. 1,421,416; July 4.
Superheater, Steam. C. A. Parsons and S. S. Cook. No. 1,421,712; July 4.
Surplus material, Machine for removing. B. Jorgensen. No. 1,421,488; July 4.
Sweeper, Suction. J. B. Kirby. Nos. 1,421,957–8; July 4.
Switch: *See*—
Electric switch.
Ignition and lighting switch.
Pressure-operated switch.
Pull-socket switch.
Railway switch.
Switch mechanism. H. M. Stevens. No. 1,421,740; July 4.
Switch plate. A. Frinzi. No. 1,421,447; July 4.
Switchboard signal. G. Carlson. No. 1,421,403; July 4.
Table: *See*—
Combination table.
Folding table.
Tachometer. C. H. Veeder. No. 1,421,865; July 4.
Tackle hook. J. H. Flynn, Jr. No. 1,421,442; July 4.
Take-up device, Automatic. F. Jerdone, Jr. Nos. 1,421,783–4; July 4.
Talking machines, Motor for. F. Cheney. No. 1,421,404; July 4.
Tandem roller. F. A. Browne. No. 1,421,665; July 4.
Tank and closure. C. E. Giessner. No. 1,421,454; July 4.
Tanning. A. Römer and L. Blangey. No. 1,421,722; July 4.
Tanning with aluminum salts. O. Röhm. No. 1,421,723; July 4.
Teeth, Apparatus for casting fillings for. W. H. Richards. No. 1,421,988; July 4.
Teeth mounts, Artificial. H. A. Edwards. No. 1,422,044; July 4.
Telegraphy and other purposes, Thermionic apparatus for wireless. L. B. Turner. No. 1,422,013; July 4.
Telephony. H. S. Turner. No. 1,421,864; July 4.
Testing apparatus. R. G. McCurdy. No. 1,421,702; July 4.
Testing machine. W. J. Raftery. No. 1,421,562; July 4.
Textile and other fabrics, thread, yarn, and the like, Treating. J. Takamine and J. Takamine, Jr. No. 1,421,613; July 4.
Textile fabrics, Means for stiffening. O. Lobeck. No. 1,421,700; July 4.
Thimble and stovepipe holder, Combined. S. E. Barr. No. 1,421,359; July 4.
Thrashing machine. E. Boe. No. 1,422,023; July 4.
Three-position operating mechanism. O. S. Field. No. 1,421,769; July 4.
Thrust bearing, Adjustable. C. A. Maris. No. 1,421,518; July 4.
Tie: *See*—
Wire tie.
Time recorder. G. W. Odell. No. 1,421,624; July 4.
Timepiece, Repeater. E. A. Marsh. No. 1,421,801; July 4.
Tire and rim therefor, Cushion. U. Anderson. No. 1,421,755; July 4.
Tire-chain hook, Automobile. H. Schuchman. No. 1,421,577; July 4.
Tire-chain retainer. G. J. La Vigne. No. 1,421,966; July 4.
Tire core, Collapsible. H. A. Denmire. No. 1,421,418; July 4.
Tire filler, Soft-rubber. M. W. Needham. No. 1,421,537; July 4.
Tire, Resilient. R. Curry. No. 1,421,917; July 4.
Tire, Tool for releasing an air valve from rim of an automobile. E. Quinn. No. 1,421,987; July 4.
Tire valves, Pressure-retaining dust cap for pneumatic. T. J. Dery. No. 1,421,420; July 4.
Tires, Forming. W. G. Fording. No. 1,422,046; July 4.
Tires, Making liners for reenforcing the covers of pneumatic. W. H. A. Theed and A. T. Phillips. No. 1,421,616; July 4.
Tires, Permanent air gauge for pneumatic. E. Jung. No. 1,421,490; July 4.
Tires, Quick-detachable dust cap for pneumatic. W. E. Williams. No. 1,421,642; July 4.
Toilet case. D. S. Wilson. No. 1,421,645; July 4.
Tool. C. H. Wagner. No. 1,421,871; July 4.
Tool box. A. B. Black. No. 1,421,732; July 4.
Tool holder. V. Hovanec. No. 1,422,058; July 4.
Tools, Means for automatically cutting off the feed motion of machine. N. J. Olsson. No. 1,421,544; July 4.
Tooth-cleaning device. A. B. Cohen. No. 1,421,911; July 4.
Toothbrush. W. L. Webster. No. 1,421,875; July 4.
Torpedoes, Gyroscopic apparatus for. E. A. Sperry. No. 1,421,854; July 4.
Toy. E. F. Juergens. No. 1,421,694; July 4.
Toy. L. Orussa. No. 1,421,985; July 4.
Toy aeroplane. H. M. Watts. No. 1,421,631; July 4.
Toy aeroplane. J. C. Van Etten. No. 1,421,621; July 4.
Tracing device. J. N. Meyers. No. 1,421,975; July 4.
Track, Self-shifting. H. J. Bentson. No. 1,421,387; July 4.
Tractor. E. Wertenberger. No. 1,421,635; July 4.
Trailer. H. Kapferer. No. 1,421,492; July 4.
Trailer-steering device. R. H. De Launty. No. 1,422,040; July 4.
Train-control system. E. J. Blake. No. 1,421,762; July 4.
Train-operated gate. H. C. McConnell. No. 1,421,512; July 4.
Train pipe connector, Automatic. J. V. Robinson. (Reissue.) No. 15,400; July 4.
Transformer. R. V. Bingay. No. 1,421,899; July 4.
Transmission. H. C. Baines. No. 1,421,375; July 4.
Transmission-lever-locking device. A. M. Hamilton. No. 1,421,463; July 4.
Transmission mechanism, Gearless. L. C. Cattoi. No. 1,421,908; July 4.
Trap: *See*—
Game trap.
Trap. G. M. Gould. No. 1,422,049; July 4.
Trolley wire stretcher and splicer, Combination. D. R. Hunley. No. 1,421,481; July 4.
Trough. R. A. Bagnell. No. 1,421,374; July 4.
Trousers supporter. W. M. McFarland. No. 1,421,514; July 4.
Truck, Trailer. A. B. Cadman. No. 1,421,402; July 4.
Turnbuckle. C. H. Veeder. No. 1,421,866; July 4.
Typewriters, Ribbon mechanism for. O. A. Hokanson. No. 1,421,760; July 4.
Typewriting-instruction machine. O. J. Hanson. No. 1,422,053; July 4.
Typewriting machine. A. A. Johnson. No. 1,421,946; July 4.
Typewriting machine. G. A. Seib. No. 1,421,581; July 4.
Universal joint. W. H. Thiemer. No. 1,421,617; July 4.
Vacuum container. C. E. Giessner. No. 1,421,685; July 4.
Vacuum oiling system. F. W. Thomas and M. D. Kimball. No. 1,421,858; July 4.
Valve. G. P. Haynes. No. 1,421,687; July 4.
Valve, Faucet. E. L. Cunningham. No. 1,421,765; July 4.
Valve for gauge cocks. H. W. Ryalls. No. 1,421,572; July 4.
Valve grinders, Operating devices for. E. R. Jones. No. 1,421,486; July 4.
Valve of a gas burner or gas supply, Electrically-operated. J. Wolfson. No. 1,421,648; July 4.
Valve, Priming. R. W. and P. B. Linley. No. 1,421,793; July 4.
Valve-stem lubricator. E. E. Parslow. No. 1,421,826; July 4.
Vault front and door construction. J. Freyberg and L. F. Wubbolding. No. 1,421,771; July 4.
Vehicle. J. W. Collier. No. 1,422,034; July 4.
Vehicle axle. A. W. Russel. No. 1,421,836; July 4.
Vehicle top curtain. F. L. Burns. No. 1,421,400; July 4.
Vehicle driving wheels, Driving cleat mechanism for motor-. A. T. Sturt. No. 1,422,009; July 4.
Vehicle fender. O. G. Jones. No. 1,421,693; July 4.
Vehicle, Motor. E. H. Belden. No. 1,421,757; July 4.
Vehicle, Motor. A. E. Osborn. No. 1,421,545; July 4.
Vehicle sled. T. W. Dinning and E. H. Clymer. No. 1,422,041; July 4.
Vehicle spring. F. V. Cooke. No. 1,421,410; July 4.
Vehicle spring wheel. C. Miethe. No. 1,421,808; July 4.
Vehicles, Decking apparatus for. E. Holmes. No. 1,421,782; July 4.
Vehicles, Direction indicator for motor. F. Skarzynski. No. 1,422,005; July 4.
Vehicles, Load bracing and ventilating device for. G. Sykes. No. 1,421,612; July 4.
Vehicles, Resilient wheel for. R. Linn. No. 1,421,508; July 4.
Vehicles, Sand-delivery device for. J. C. Taylor. No. 1,421,745; July 4.
Vehicles, Spring suspension for. E. H. Belden. No. 1,421,758; July 4.
Vehicles, Spring suspension for. E. H. Belden. No. 1,421,760; July 4.
Vehicles, Tilting reflector for motor. H. L. Watson. No. 1,421,630; July 4.
Vending machine and the like. G. C. Reith. No. 1,421,831; July 4.
Vending machine, Coin-controlled. H. Giles. No. 1,421,453; July 4.
Vending machine, Liquid-. J. Fritsche. No. 1,421,680; July 4.
Viner, Green-pea. F. Hamachek. No. 1,421,772; July 4.
Violin bow. G. M. Loth. No. 1,421,510; July 4.
Voting booth. I. S. Draper. No. 1,421,423; July 4.
Vulcanizing apparatus. W. R. Urquhart. C. W. Peat, D. E. Humphrey, and C. C. Van Arsdale. No. 1,422,065; July 4.
Wall attachment. H. C. Hanson. No. 1,422,052; July 4.
Wall construction. E. V. Phillips. No. 1,421,986; July 4.
Washing machine. C. G. Hall. No. 1,421,462; July 4.
Watches, Second-hand-setting mechanism for. A. Burnstine. No. 1,421,668; July 4.
Water heater. R. J. Hutchins. No. 1,421,692; July 4.
Water-lifting apparatus, Automatically-operating hydropneumatic. R. B. McConney. No. 1,421,513; July 4.
Waterer, Stock. A. C. Weatby. No. 1,421,636; July 4.
Weatherproofing clay. W. H. Allen. No. 1,421,988; July 4.
Weighing mechanism, Automatic. E. B. Elder. No. 1,421,926; July 4.
Welding machine, Tube. E. Kamper. No. 1,421,786; July 4.

Wells, Excluding water from oil and gas. R. V. Mills. No. 1,421,706; July 4.
Wheel: *See*—
Automobile wheel.
Car wheel.
Resilient wheel.
Sprocket wheel.
Vehicle spring wheel.
Wheel disks, Making. E. G. Budd. No. 1,421,667; July 4.
Wheels, Rim for steering. J. Erickson. No. 1,421,434; July 4.
Window-mounting device. H. Faurot, Jr. No. 1,421,927; July 4.
Window-operating device. C. I. Goldblatt. No. 1,421,938; July 4.
Window-operating means. J. Parsons. No. 1,421,547; July 4.
Window-shade fixture. G. B. Holland. No. 1,422,056; July 4.
Windshield attachment. A. S. Harden. No. 1,421,467; July 4.
Windshield sunshade. G. A. Holsberg. No. 1,421,942; July 4.
Wire-rope socket. E. W. Daniel. No. 1,421,676; July 4.
Wire tie. E. Holmes. No. 1,421,781; July 4.
Woodworking tool. S. Sorenson. No. 1,421,599; July 4.
Worm gearings, Worm for. H. Seemann. No. 1,421,580; July 4.
Wrench. P. F. Anderson. No. 1,421,366; July 4.
Wrench. F. R. Gilby. No. 1,421,936; July 4.
Wrench. B. Myer and J. Brown. No. 1,421,536; July 4.
Yarn rack. W. S. Trickett. No. 1,422,012; July 4.

ALPHABETICAL LIST OF DESIGNS.

Apron, Dress. M. White. No. 61,182; July 4.
Broom holder. F. G. Howe. No. 61,162; July 4.
Clock case. L. E. Macomber. No. 61,170; July 4.
Clock case. F. A. Weidman. No. 61,181; July 4.
Confection rack, Swivel. J. Lazerus. No. 61,168; July 4.
Corset. G. L. Nickerson. No. 61,175; July 4.
Doll. A. P. Handley. No. 61,158; July 4.
Doll. J. A. Hayes. Nos. 61,159–60; July 4.
Doll. W. B. Van Valin. No. 61,179; July 4.
Doll, Baseball-player. W. B. Van Valin. No. 61,180; July 4.
Doll or statuette. A. W. Kurfiss. No. 61,167; July 4.
Doll or statuette. G. W. Sisk. No. 61,176; July 4.
Emblem, badge, or button. A. E. Chase. No. 61,151; July 4.
Heel, Shoe. D. Freeman. No. 61,156; July 4.
Lace. T. H. Smedley. No. 61,177; July 4.
Leather, wall paper, or similar article of manufacture. H. G. Wurm. No. 61,184; July 4.
Lighting fixture. H. C. Adam. No. 61,147; July 4.
Lighting fixture, Principal central body of a. H. C. Adam. No. 61,146; July 4.
Memorandum stand. S. Jaffe. No. 61,163; July 4.
Paper, Safety. C. Kres. Nos. 61,165–6; July 4.
Paper, Safety. F. Meyer. Nos. 61,173–4; July 4.
Phonograph cabinet. J. Wolff. No. 61,183; July 4.
Pincushion, Doll. M. M. Farrell. No. 61,153; July 4.
Ring or similar article. J. W. Mayer. Nos. 61,171–2; July 4.
Shade frame, Art metal. A. Steffen. No. 61,178; July 4.
Sole or tap. D. Freeman. No. 61,157; July 4.
Textile fabric. W. Dowling. No. 61,152; July 4.
Tire. A. A. Frank. No. 61,155; July 4.
Tire. W. F. Hoelzer and J. T. Johnson. No. 61,161; July 4.
Tire. J. T. Johnson. No. 61,164; July 4.
Tire for vehicles, Solid-rubber. H. H. Boucher. No. 61,150; July 4.
Tire tread, Pneumatic-. H. S. Berlin. No. 61,148; July 4.
Toy shackle. J. E. Blake. No. 61,149; July 4.
Toy, Whirligig. H. M. Fletcher. No. 61,154; July 4.
Toy windmill. S. A. Gill. No. 61,185; July 4.
Vase. A. A. Lyon. No. 61,169; July 4.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Alarms, Hold-up. Padua "Hold-Up" Alarm Corporation. No. 156,600; July 4.
Bed springs. Gangelhoff Bros. No. 156,593; July 4.
Brick and tile for metallurgical furnaces. Crescent Refractories Company. Nos. 156,589–91; July 4.
Burglar alarms and housings, timer cases, and relays therefor, Electric. O. B. McClintock Company. No. 156,598; July 4.
Clocks. Keyless Auto Clock Company. No. 156,596; July 4.
Cloth and terry-bath-robing piece goods, cloth towels, etc., Terry-Hohlfeld Manufacturing Company. No. 156,583; July 4.
Cotton, silk, and linen goods and mixtures of cotton and silk and linen and silk in the piece. Jacob Miller Sons & Co. No. 156,585; July 4.
Dentifrice. Florence Manufacturing Company. No. 21,733; renewed Sept. 13, 1922.
Electrical supplies, Certain. Reliable Electric Company. No. 156,601; July 4.
Electric fixtures, Certain. Eclipse Light Company. No. 156,592; July 4.
Electric lights and dry batteries, Portable. National Carbon Company. No. 156,599; July 4.
Electric safety switches. Trumbull-Vanderpoel Electric Manufacturing Co. No. 156,603; July 4.
Eye lotion. Sassafras Eye Lotion Co. No. 20,890; renewed Mar. 22, 1922.
Hair nets. C. Wolton. No. 156,588; July 4.
Ink, Printers' and lithographers'. Ault Wiborg Company. No. 21,933; renewed Nov. 8, 1922.
Lager beer. The F. & M. Schaefer Brewing Co. No. 21,004; renewed Apr. 19, 1922.
Liquors and cordials. Gordon & Co. No. 21,734; renewed Sept. 13, 1922.
Memorandum devices. A. M. Watterson. No. 156,587; July 4.
Musical, percussion, and similar instruments, Certain. Ludwig & Ludwig. No. 156,597; July 4.
Packing, Machinery. Goetz Gasket and Packing Company. No. 156,594; July 4.
Pens and lead pencils. Fountain. Dictator Fountain Pen Company. No. 156,582; July 4.
Petroleum for internal and external use as a remedy for disease, Refined. Angier Chemical Company. No. 21,224; renewed May 31, 1922.
Pipe covering for exposed piping. C. G. Woolson. No. 156,604; July 4.
Refrigerating systems and parts thereof. Automatic Refrigerating Company. No. 156,580; July 4.
Refrigerators. Coldak Company. No. 156,581; July 4.
Rifles and shotguns. Marlin Firearms Corporation. No. 156,584; July 4.
Robes, Night. E. Rosenfeld & Co. No. 21,359; renewed June 28, 1922.
Roofing tin. A. & G. Taylor Co. No. 20,563; renewed Jan. 5, 1922.
Silk in the piece. Muser Brothers. No. 156,586; July 4.
Stationary and locomotive injectors and ejectors. Hayden & Derby Mfg. Company. No. 21,221; renewed May 31, 1922.
Tobacco, cigars, and cigarettes. Tuckett Tobacco Company. No. 156,602; July 4.
Varnishes. George L. Wood & Son. No. 20,919; renewed Mar. 29, 1922.
Watches, dials, movements and parts thereof and watch-cases. S. R. Hoffman. No. 156,595; July 4.

ALPHABETICAL LIST OF LABELS.

"Admiration." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,636; July 4.
"Arle's Victory Polish." (For a Polish Which can be Used on Automobiles, Furniture, and Other Articles.) J. Arle. No. 24,613; July 4.
"Asp-Rin-Lax." (For Cold Tablets.) Omez Pharmacal Co. No. 24,667; July 4.
"Beistle's—Christmas Decorations for the Home." (For a Package of Christmas Decorations.) Beistle Company. No. 24,625; July 4.
"Beistle's Hallowe'en Hat Masks." (For a Package of Hat Masks.) Beistle Company. No. 24,624; July 4.
"Beistle's Hallowe'en Hats." (For Packages Containing Hallowe'en Hats.) Beistle Company. No. 24,621; July 4.
"Beistle's Hallowe'en Hats." (For Packages Containing Hallowe'en Hats.) Beistle Company. No. 24,623; July 4.
"Bonnie." (For a Wrapper for Toilet Paper Rolls.) Northern Paper Mills. No. 24,663; July 4.
"Brilliantine." (For Hair Preparations.) Harriet Hubbard Ayer. No. 24,618; July 4.
"Brownie Krust." (For Bread.) H. J. Regus. No. 24,675; July 4.
"Certified." (For Olives.) California Olive Association. No. 24,628; July 4.
"Choice Box." (For Packages of Confectionery.) Robert A. Johnston Company. No. 24,651; July 4.
"Chocolate Pie." (For Candy.) Schall's Inc. No. 24,681; July 4.
"Cocoanut Showers 'Honey-Like'." (For Candy and Confections.) Frozen Fruit, Inc. No. 24,643; July 4.
"Coeur de Violette." (For Toilet Soap.) Harriet Hubbard Ayer. No. 24,614; July 4.
"Coeur de Violette." (For Toilet Soap.) Harriet Hubbard Ayer. No. 24,617; July 4.
"Complexion Balm." (For a Lotion for Beautifying the Skin.) Harriet Hubbard Ayer. No. 24,619; July 4.
"Cyclone Cleaner." (For a Cleaning Compound.) Thomas A. Theard. No. 24,690; July 4.
"Delico Dips." (For Chocolate-Coated Frozen Confections.) Delico Products Company. No. 24,635; July 4.
"Depilatory." (For Preparation for Removing Hair.) Harriet Hubbard Ayer. Nos. 24,615–6; July 4.
"Dr. Schwind's Rose Healing Salve." (For Salve.) Schwind Laboratory. No. 24,682; July 4.
"Drytex." (For a Wrapper for Folded Paper Towels.) Northern Paper Mills. No. 24,665; July 4.
"El Fani." (For Boxes Containing Cigars.) Sclafani & Sons. No. 24,683; July 4.
"Fenway." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,637; July 4.
"Fire-Chief The Infallible Fire Extinguisher." (For a Jar of Fire-Extinguisher Liquid.) Benson Products Co. No. 24,626; July 4.
"Firefly." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,641; July 4.
"Golden Glow Butter." (For Butter.) Riddle-McElwain Co. No. 24,676; July 4.
"Green Leaf." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,661; July 4.
"Hallowe'en Party Table Decorations." (For Packages Containing Table Decorations for a Hallowe'en Party.) Beistle Company. No. 24,622; July 4.
"Ha-Lo-Antiseptic Cylinders Antiseptic, Healing, Deodorant, Prophylactic." (For Medicinal Preparations for Female Diseases.) L. C. Rohling. No. 24,677; July 4.
"Happy Days." (For a Beverage.) Crown Brewing Co. No. 24,634; July 4.
"'Honey-Like' Cocoanut Showers." (For Candy and Confections.) Frozen Fruit, Inc. No. 24,642; July 4.
"Husky Graham Bread." (For Bread.) M. Zinsmaster. No. 24,693; July 4.
"Indian Corn Candy." (For Butter Cream Confections—Namely, Indian Corn Candy.) The Nuss Confectionery Company. No. 24,666; July 4.
"Jane Drew." (For Candies.) L. R. Steel Company. No. 24,687; July 4.
"Kismet Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 24,645; July 4.
"Lady Esther Four Purpose Cream." (For Face Cream.) S. Cohen. No. 24,630; July 4.
"Lady Jane." (For Hair Nets.) M. Wahl & Son. No. 24,692; July 4.
"Lasting Lustro The Perfect Polish." (For Autos, Furniture, Leather, Pianos, Victrolas, Etc., as a Cleaning and Polishing Compound.) H. R. F. Co. No. 24,649; July 4.
"Lion Brand." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,640; July 4.
"Mile-A-Minute." (For Carbon Remover and Preventer.) Mile-A-Minute, Incorporated. No. 24,652; July 4.
"M. M. R.'s Red Seal Hair Net." (For Hair Nets.) Morris, Mann & Reilly, Inc. No. 24,653; July 4.
"Monument Writing Fluid." (For Inks Known as Writing and Copying Fluid.) A. A. Broshears. No. 24,627; July 4.
"Northern Bear." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,662; July 4.
"Northern Cabinet Tissue." (For a Wrapper for Packages of Toilet Paper.) Northern Paper Mills. No. 24,660; July 4.

"O. K. Eto Crisps." (For Health Wafers.) Jern Food Company. No. 24,650; July 4.
"Parasilk." (For Toilet Paper.) Paper Specialty Company. No. 24,670; July 4.
"Peggy." (For Envelopes Containing Hair Nets.) P. Frankel Company. No. 24,639; July 4.
"Pen-Jel." (For a Powdered Substance Consisting of Pectin and Acidified Sugar, a Quick Jelly Making Material.) Pennsylvania Sugar Company. No. 24,671; July 4.
"Play Ball." (For Games.) I. Prince. No. 24,672; July 4.
"Princess Charming." (For Perfume, Toilet Water, Face Powder, and Talcum Powder.) Harriet Hubbard Ayer. No. 24,620; July 4.
"P S G Co. Stove Gloss." (For a Stove Gloss Preparation.) J. L. Nekritz. No. 24,655; July 4.
"Puncher De Luxe." (For Boxes Containing Cigars.) S. Goldberg & Company. No. 24,647; July 4.
"Purple Feather." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,664; July 4.
"Realgood." (For Hosiery.) Realgood Corporation. Nos. 24,673–4; July 4.
"Red Poppy." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,658; July 4.
"Sano." (For a Rheumatic Remedy and System Tonic.) Sano Remedy Company. No. 24,678; July 4.
"Satisfaction." (For Eggs.) Green & Company. No. 24,648; July 4.
"Savem." (For a Container for a Compound Used for the Treatment of Fabrics After the Same Have Been Washed.) Savem Economy Products Co. Nos. 24,679–80; July 4.
"Selby's Fleur Kiss Chewing Gum." (For Packages Containing Chewing Gum.) National Pepsin Gum Co. No. 24,654; July 4.
"Select." (For Canned Vegetables—Namely, Tomatoes.) Anderson & Nelson. No. 24,612; July 4.
"Stacomb." (For Hair Pomade.) Standard Laboratories, Inc. No. 24,686; July 4.
"Styla." (For Boxes Containing Hosiery.) F. Simmons. No. 24,684; July 4.
"Swannette Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 24,646; July 4.
"Sweetie." (For Oranges.) L. K. Small Company. No. 24,685; July 4.
"Sweet's Lady Claire Chocolates." (For Chocolates.) Sweet Candy Company. No. 24,688; July 4.
"The Chertok-Bodak Hair Saver." (For a 4-Oz. Bottle of Vegetable and Root Compound (Liquid) for the Treatment of Hair and Scalp.) Oscar Hair Restoring Company. No. 24,669; July 4.
"The Childrens Shoe Workers' Union of New York State." (For Children's Shoes.) Childrens Shoe Workers' Union of New York State. No. 24,631; July 4.
"The Country Gentleman Handkerchief." (For Boxes Containing Handkerchiefs.) Thomas Carter & Sons, Inc. No. 24,629; July 4.
"The Iris Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 24,644; July 4.
"Thorobread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 24,656; July 4.
"Virden's Thrift." (For Cooked Corn Beef.) Virden's Packing Company. No. 24,691; July 4.
"Virginia Mountain Peaches. Mad Run Brand." (For Packages Containing Peaches.) J. A. O'Neill. No. 24,668; July 4.
"Vit-A-Mine Line Foods." (For Vit-A-Mine Line Foods.) T. J. Newbill. No. 24,657; July 4.
"Wafer-Lax." (For a Carton Which Contains a Bottle with an Average of Thirty-Two Wafers Contained Therein.) William H. Sweet Company. No. 24,689; July 4.
"Walnettos." (For Candy—Namely Caramels.) J. N. Collins Company. Nos. 24,632–3; July 4.
"Yankee Girl." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,638; July 4.
"Yellow Bird." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,659; July 4.

ALPHABETICAL LIST OF PRINTS.

"Alteration Piano Sale." (For Advertising Purposes for Pianos.) Boston Piano Co. No. 6,197; July 4.
"Beauty Brows." (For Advertising Purposes for Eyeglasses and Spectacles.) Frank G. Murphy. No. 6,202; July 4.
"Eldorado Brand Typewriter Ribbons, Non-Filling and Durable." (For Advertising Purposes for Eldorado Typewriter Ribbons.) National Paper & Type Co., The. No. 6,203; July 4.
"Factory Pianos." (For Advertising Purposes for Pianos.) Boston Piano Co. No. 6,196; July 4.
"Jiffe." (For Advertising Purposes for Nail Polish.) G. D. Earl. No. 6,198; July 4.
"'Jiffy' Folding Card Table De Luxe." (For Advertising Purposes for Folding Card Tables.) Steinfeld Bros. No. 6,206; July 4.
"Macksl Mum." (For Advertising Purposes for Shirts.) Rauh & Mack Shirt Co. No. 6,204; July 4.
"Makes All Figuring Easy as Turning the Crank." (For Advertising Purposes for Monroe Calculating Machines.) Monroe Calculating Machine Co. No. 6,201; July 4.
"Piano Sale." (For Advertising Purposes for Pianos.) Union Piano Co. Nos. 6,207–8; July 4.
"Pianos! Pianos!" (For Advertising Purposes for Pianos.) Boston Piano Co. No. 6,195; July 4.
"Polar Patties." (For Advertising Purposes for a Confection Comprising Ice Cream as a Principal Ingredient.) William W. Saxe. No. 6,205; July 4.
"The Estey Residence Pipe Organ." (For Advertising Purposes for The Estey Residence Pipe Organ.) Estey Organ Co. No. 6,199; July 4.
"The New Improved Seven Passenger Haynes 75 Touring Car." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 6,200; July 4.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Agricultural implements, cutlery and edge tools, and machinists' tools. Collins Company. No. 156,778; July 4.
Air lifts and liquid separators. Sullivan Machinery Company. No. 145,661; July 4.
Ammonia, castor oil, cough balsam, etc. Puritan Drug Mfg. Co. No. 146,655; July 4.
Automobile body hardware. Ternstedt Manufacturing Co. No. 156,471; July 4.
Automotive parts. The Parts Service Company. No. 160,972; July 4.
Bearings, shafts, arbors, and bearing parts, Antifriction. A. E. Leon. No. 149,408; July 4.
Beer and near beer. United States Brewing Company. No. 147,380; July 4.
Belting, Leather. Chas. A. Schieren Company. No. 161,276; July 4.
Belting, Textile. Buckner Process Company. No. 159,993; July 4.
Belts for men, women, and children. Hauser & Well. No. 159,034; July 4.
Benches. M. C. Bachelier. No. 149,168; July 4.
Blank books, loose-leaf-ledger binders, stenographers' note books, etc. Guild Products Corporation. No. 159,752; July 4.
Boiler covering. Rutland Fire Clay Co. No. 154,996; July 4.
Books published in series, Printed. E. P. Dutton & Co. Nos. 163,141–2; July 4.
Boots, shoes, and slippers. Plaut-Butler Company. No. 156,800; July 4.
Boxes and vases made of aluminium. Aluminium Walswerke A.-G. No. 138,800; July 4.
Brilliantine. E. Burnham, Inc. No. 160,471; July 4.
Brooders and hovers. C. H. Landenberger. No. 162,828; July 4.
Brushes. Wooster Brush Company. Nos. 160,448–9; July 4.
Brushes, Artists'. M. Grambacher. No. 161,085; July 4.
Brushes, Hair, clothes, and shoe. Diack Bros. No. 160,001; July 4.
Brushes, Shaving. Wontshed Brush Co. No. 161,218; July 4.
Buttons, buckles, girdles, beads, spangles, etc. United Manufacturing Trimming Co. No. 161,158; July 4.
Buttons, Horn. Lindenhurst Manufacturing Co. No. 159,097; July 4.
Camera, Cinema. Sept Cinema Camera Distributors, Inc. No. 161,901; July 4.
Can opener. R. F. Stevenson. No. 158,543; July 4.
Candles. Loft, Incorporated. No. 158,878; July 4.
Candles. Wallace & Co. No. 158,407; July 4.
Candy. Package Confectionery Company. No. 149,598; July 4.
Canned fruits and vegetables. F. B. Neuhoff. No. 157,943; July 4.
Canned fruits and vegetables. F. B. Neuhoff. Nos. 157,943–6; July 4.
Canned fruits and vegetables, nuts, honey, jelly, etc. Betty Jeane Incorporated. No. 156,352; July 4.
Canned vegetables and fruits. Filice & Perrelli Canning Co. No. 158,301; July 4.
Canned white tuna fish. Westgate Sea Products Co. No. 157,973; July 4.
Car bodies, parts, and accessories, Motor. Carrosserie Van Den Plas, Société Anonyme. No. 158,704; July 4.
Cars, Children's coaster. Woodstock Manufacturing Co. No. 161,468; July 4.
Cars, Children's three-wheel propelling. E. S. Rogers. No. 159,769; July 4.
Carbon blacks and paint pigments. Sander, Wieler & Co. No. 144,884; July 4.
Cards, Playing. United States Playing Card Company. No. 164,526; July 4.
Cartoons, Series of. Bell Syndicate, Inc. No. 163,214; July 4.
Cartoons, Series of. George Matthew Adams Service. No. 131,719; July 4.
Cases and bags for holding fishing material. Knickerbocker Case Company. No. 153,356; July 4.
Cement such as is used in the manufacture and repairing of boots and shoes. United Shoe Machinery Corporation. No. 148,041; July 4.
Chairs, rockers, tables, beds, dressers, desks, and fiber office furniture, Household. American Chair Company. No. 159,195; July 4.
Chemicals. Porter Chemical Company. No. 143,103; July 4.
Cigarette-rolling machines, Pocket. Evans Conclanum & Metal Works, Ltd. No. 139,790; July 4.
Cleaning compound, Liquid. F. Valconr. No. 153,429; July 4.
Cleanser for cleaning clothes, silverware, dishes, cooking utensils, woodwork, etc. Hays-Raden Company. No. 159,357; July 4.
Clothing. Marcus Breier's Sons. No. 155,596; July 4.
Combs. Stewart & Holmes Drug Co. No. 162,906; July 4.
Combs, pincushions, glove stretchers, shoehorns, etc. James McCreery & Company. No. 158,245; July 4.
Comforters. Burton-Dixie Corporation. No. 159,554; July 4.
Compound for treating catarrh, asthma, and colds. C. G. Taylor. No. 159,389; July 4.
Confections—namely, candy. Sykes & Thompson Co. No. 156,866; July 4.
Cord fasteners, hooks, and pulleys, window springs, etc. Western Electric Company. No. 111,635; July 4.
Cotton and wool piece goods, and combinations of same. Societe Rodier. No. 157,335; July 4.
Cotton handkerchiefs. Gribbon Company. No. 162,335; July 4.
Cotton piece goods. Eugene Ellis Co. Inc. No. 160,338; July 4.
Cotton piece goods. Hockmeyer Bros. No. 162,254; July 4.
Cotton piece goods. Passaic Print Works. No. 156,410; July 4.
Cotton piece goods and drapery fabrics of cotton, silk, etc. Colony Mills Inc. No. 161,917; July 4.
Cotton waste. Geo. B. Carpenter & Co. Nos. 161,226–32; July 4.
Crash, towels, and toweling. West Point Manufacturing Company. No. 163,061; July 4.
Crayons, Wax and chalk. Standard Crayon Manufacturing Co. No. 161,798; July 4.
Cream, Facial. E. Burnham, Inc. No. 160,478; July 4.
Cream testers. J. A. Long Company. No. 162,347; July 4.
Cream, Toilet. The Stimule Company, Inc. No. 160,511; July 4.
Creams, face powders, rouges, etc. Palmers, Limited. No. 158,840; July 4.
Crushers and like machines. Williams Patent Crusher & Pulverizer Co. No. 158,279; July 4.
Crushers and the like machines. Williams Patent Crusher & Pulverizer Co. No. 158,462; July 4.
Curtain holders. M. J. Smith. No. 161,204; July 4.
Cutlery. J. A. Henckels. No. 153,980; July 4.
Dentifrice. G. F. Bowman and C. F. C. Arensberg. No. 159,840; July 4.
Deodorant. E. Burnham, Inc. No. 160,461; July 4.
Dispensers, measuring pumps, and meters. S. F. Bowser & Company. No. 161,165; July 4.
Dolls. J. A. Hayes. No. 161,049; July 4.
Dolls. Wolf Doll Co. No. 162,864; July 4.
Drill bits, reamers, oil-well fishing tools, etc., Rotary. Reed Roller Bit Co. No. 158,950; July 4.
Drink, Malt soft. S. Liebmanns Sons. No. 160,499; July 4.
Drinks and sirups for making same, Malticas soft. K. Antonsen. No. 160,528; July 4.
Electric signal or alarm boxes, door openers, sewing machines, etc. Western Electric Company. No. 111,634; July 4.
Electrotypes. Royal Electrotype Company. No. 161,164; July 4.
Fabrics. St. John Brothers. No. 162,697; July 4.
Filters. C. S. Smith. No. 162,583; July 4.
Fire-extinguishing composition. J. B. Miller. No. 158,884; July 4.
Fishing spoons. Geneva Tackle Co. No. 163,150; July 4.
Floor covering, Plastic. Duraflex Company. No. 158,522; July 4.
Flour, Wheat. Hoyland Flour Mills Company. Nos. 160,346–7; July 4.
Flour, Wheat. Hoyland Flour Mills Company. No. 160,349; July 4.
Flour, Wheat. Lindsborg Milling & Elevator Co. No. 147,727; July 4.
Flour, Wheat. Southwestern Milling Company. No. 155,326; July 4.
Fruits, Fresh deciduous. White Bros. & Crum Co. No. 158,349; July 4.
Furs, Prepared. H. Silbert. No. 152,727; July 4.
Gauges, Fluid. Mid West Glass Company. No. 161,734; July 4.
Glass paperweights. Buffalo Optical Company. No. 162,282; July 4.
Goggles and protection glasses. Willson Goggles, Inc. No. 160,734; July 4.
Hair nets. R. Denola. No. 162,535; July 4.
Hair pins. Sta-Rite Hair Pin Co. No. 160,303; July 4.
Hair removed. E. Burnham, Inc. No. 160,463; July 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Hair wash, shampoo powders, perfumery powders, etc. Hamoes Limited. No. 158,313; July 4.
Hair tonic relieving excessive oil. E. Burnham, Inc. No. 160,464; July 4.
Hair wavers, curlers, and crimpers. L. M. Garrity & Co. No. 162,402; July 4.
Hats for men. Bonar-Phelps Company. No. 150,957; July 4.
Healing compound for sores and wounds. Gadomoski Bros. No. 153,243; July 4.
Hooks and eyes, hook and eye tape, and safety pins. De Long Hook and Eye Company. No. 162,164; July 4.
Horses on wheels for children. A. A. Magee. No. 146,321; July 4.
Hose, Golf. J. A. Panarello. No. 155,572; July 4.
Hose made of cotton and rubber and hose made of linen. United States Rubber Company. No. 161,287; July 4.
Hosiery. C. T. Davies. No. 159,014; July 4.
Hosiery. L. H. Lewis Company. No. 155,412; July 4.
Hosiery. Pittsburgh Dry Goods Company. No. 145,708; July 4.
Hosiery, Infants'. Krueger-Tobin Co. No. 158,395; July 4.
Hosiery, underwear, and sweaters. R. Lipschitz & Sons. No. 154,226; July 4.
Household appliances. National Home Appliance Corporation. No. 149,093; July 4.
Insulating powder used in building construction, etc. R. Burhans, Jr. No. 147,229; July 4.
Kitchen utensils, and flatware, Aluminum. Rainbow Import & Export Corporation. No. 157,043; July 4.
Laces, Shoe. Diamond Braiding Mills. No. 161,114; July 4.
Lacti-bacilli for medicinal use in gastro-intestinal disorders, etc., Culture of. B. B. Culture Laboratory, Inc. No. 160,584; July 4.
Lanterns, Glass globes for. R. E. Dietz Company. No. 161,768; July 4.
Laundry purposes and in treating textiles, Hot and cold sour for. H. Kohnstamm & Co. No. 160,709; July 4.
Letter folders, Advertising. Advertiser's Art Studios. No. 163,072; July 4.
Lotion, Skin. Natural Life Face Beautifier. No. 160,624; July 4.
Lumber. E. Jones. No. 162,491; July 4.
Mattresses, cushions, beds, etc. Burton-Dixie Corporation. No. 154,634; July 4.
Measuring weight or pull, Machine for. Little Giant Company. No. 160,714; July 4.
Meats, meat products, and other foods. Morris & Company. Nos. 154,036–7; July 4.
Medicine for menorrhagia, metrorrhagia, backache, and menstrual fever. A. Khoury. No. 159,511; July 4.
Medicine, Headache. Stimule Company, Inc. No. 160,512; July 4.
Medicine, Laxative. Stimule Company. No. 160,513; July 4.
Milk, Unsweetened evaporated. Crescent Company. No. 157,914; July 4.
Moldings or casings or as a filling material, Powder used in the manufacture of. American Cellulose & Chemical Manufacturing Company. No. 161,221; July 4.
Motors and carburetors. Camden Anchor-Rockland Machine Co. No. 143,743; July 4.
Mottoes, Snapping. B. Shackman & Co. Nos. 164,125–7; July 4.
Muslin, cambric, etc., in the piece. Marshall Field & Company. No. 140,311; July 4.
Neckties. T. E. Greaney. No. 154,311; July 4.
Nozzles, Hose. Schlangen Bros. Co. No. 157,636; July 4.
Oil gauges. Carter Motor Accessories, Inc. No. 161,819; July 4.
Oils, Lubricating. Star Oil Company. No. 152,217; July 4.
Paint, Oil. William Zinsser & Company. No. 158,166; July 4.
Pans and broom holders, Frying. Miller Lock Company. No. 156,500; July 4.
Pants, Baby. I. B. Kleinert Rubber Company. Nos. 158,680–1; July 4.
Paper an ledger, Writing. Fox River Paper Company. No. 161,002; July 4.
Paper mainly used for carbonizing purposes, Tissue. Rose & Frank Co. Nos. 162,576–8; July 4.
Paper towels. West Disinfecting Company. No. 162,705; July 4.
Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 163,092; July 4.
Papers, Writing and printing. American Writing Paper Company. Nos. 157,293–4; July 4.
Pavements and paving material containing bituminous matter. Warren Brothers Company. No. 158,498; July 4.
Pencils. W. H. Ingersoll. No. 161,780; July 4.
Pens, stylographic pens, and pencils, Fountain. Eggen-Hambler Company. No. 162,672; July 4.
Perfume, toilet water, sachets, and other toilet preparations. E. Burnham, Inc. No. 160,472; July 4.
Perfumes. A. S. Wildes. No. 160,523; July 4.
Perfumes, toilet waters, face and toilet powders, sachets, etc. Cheramy, Inc. No. 159,490; July 4.
Periodical devoted to games, Section of a daily, weekly, or monthly. Associated Editors. No. 158,410; July 4.
Periodical published monthly. Purchasing agents, Association of Western Massachusetts. No. 163,536; July 4.
Photographic prints. A. E. Jacobson. No. 152,849; July 4.
Pictures and cartoons. W. R. Allman. No. 161,952; July 4.
Piece goods manufactured from cotton or other fiber. Denzer & Nathan, Inc. No. 162,102; July 4.
Pile fabric in the piece. Sidney Blumenthal & Co. No. 162,477; July 4.
Pile fabric in the piece. Sidney Blumenthal & Co. No. 162,480; July 4.
Pile fabric in the piece. Sidney Blumenthal & Co. No. 162,981; July 4.
Pile fabrics in the piece. Sidney Blumenthal & Co. No. 163,079; July 4.
Pile fabrics made wholely or in part of hair or wool. Sanford Mills. No. 162,138; July 4.
Pillow tubing, Cotton. Osborn Mills. No. 163,105; July 4.
Pins, Safety. New York Merchandise Company. Nos. 160,558–9; July 4.
Pins, Safety. F. Rees. Nos. 161,147–8; July 4.
Pipes, Smoking. Manhattan Briar Pipe Company. No. 153,733; July 4.
Pipes, Smoking. Manhattan Briar Pipe Company. No. 153,743; July 4.
Piston rings. F. F. Fulton. No. 160,882; July 4.
Piston rings. Shipley-Allen Inc. No. 162,855; July 4.
Plasters, Calcined gypsum wall. United States Gypsum Company. No. 163,204; July 4.
Powder, Face. E. Burnham, Inc. No. 160,470; July 4.
Powder, Liquid face. E. Burnham, Inc. No. 160,465; July 4.
Powder, Talcum. E. Burnham, Inc. No. 160,460; July 4.
Powder, Toilet. Stimule Company. No. 160,509; July 4.
Powders, petroleum jelly, almond, cold, vanishing, and massage creams. Ho-Ro-Co Manufacturing Company. No. 159,314; July 4.
Preparation for chapped hands. E. Burnham, Inc. No. 160,469; July 4.
Preparation for crow's-feet. E. Burnham, Inc. No. 160,467; July 4.
Preparation for energizing gasoline, Liquid. 1 In 5 Manufacturing Co. No. 157,169; July 4.
Preparation to promote the growth of hair and for the treatment of dandruff, etc. Velvotone Chemical Co. No. 154,942; July 4.
Preparation used in oil scalp treatments, Hot. E. Burnham, Inc. No. 160,476; July 4.
Publication, Monthly. Poster Advertising Association. No. 163,352; July 4.
Publications, Monthly. Binder Brothers, Inc. No. 164,096; July 4.
Pulleys or blocks. Boston & Lockport Block Company. Nos. 152,459–60; July 4.
Pulleys, Stamped steel. Dodge Sales & Engineering Co. No. 123,631; July 4.
Pyjamas. Lord & Taylor. No. 155,506; July 4.
Pyjamas. Lord & Taylor. No. 155,508; July 4.
Radiators for motor vehicles. C. H. Shapiro. No. 162,463; July 4.
Razors, Safety. Gillette Safety Razor Company. No. 147,192; July 4.
Reel mills. Atwood Machine Company. No. 158,558; July 4.
Registers, Hand-operated counting. C. A. Goodspeed. No. 159,237; July 4.
Rockers, Children's. Woodstock Manufacturing Co. No. 161,469; July 4.
Rope, Sisal and manila. Hooven & Allison Company. No. 146,549; July 4.
Salts, pastils, and medicated cream, Drinking and bath. Aachener Thermalwasser "Kaiserbrunnen," Aktiengesellschaft. No. 155,467; July 4.
Salve or ointment. E. Fimmel. No. 156,271; July 4.
Saucepans, pots, kettles, pitchers, coffeepots, teapots, etc., Aluminum lipped. Superior Manufacturing Company. No. 161,205; July 4.
Service tools, Automobile. Miller Tool & Mfg. Co. No. 156,231; July 4.
Shampoo. E. Burnham, Inc. No. 160,468; July 4.
Shampoo and hair wash. S. Markman. No. 160,292; July 4.
Shampoo cream. W. T. Krusch. No. 160,066; July 4.
Shock pneumatic tools and hand tools. A. O. J. Tool Company. No. 156,945; July 4.
Shoes. Maryland Shoe Corporation. Nos. 152,897–8; July 4.
Shoes, Leather, felt, and combination of leather and rubber. Lane Brothers Company. No. 155,210; July 4.
Silk piece goods. Cardinal Silk Company. No. 161,873; July 4.
Sirup for food purposes, Malt. Premier Malt Products Co. of Ohio. Nos. 158,329–31; July 4.
Sirup, Pure Georgia cane. Roddenbery Bros. No. 158,334; July 4.
Sleds, Hand. Sheffield Mfg. Co. No. 164,614; July 4.
Snap fasteners. American Fastener Company. No. 160,107; July 4.
Snap fasteners. Waldes & Co. No. 159,394; July 4.
Soap powders. Kendall Products Corporation. No. 158,985; July 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Soap products. Kendall Products Corporation. No. 158,986; July 4.
Soaps. John Wanamaker, Philadelphia. No. 156,727; July 4.
Soaps, Toilet. Crofts & Reed Co. No. 160,114; July 4.
Soaps, Toilet. Lamson Brothers Co. No. 158,190; July 4.
Soda fountains, carbonators, and soda-fountain machinery. Langley & Michaels Co. No. 158,322; July 4.
Steam blowers. McClave-Brooks Co. No. 167,720; July 4.
Stepladder. E. T. Burrowes Company. No. 161,526; July 4.
Stockings. Van Raalte Company. No. 147,266; July 4.
Stoves, Coal, coke, wood, and gas. F. A. Klaine Company. No. 157,838; July 4.
Stoves, ranges, furnaces. Minnesota Stove Company. No. 106,453; July 4.
Straps, Metallic. I. R. Pierson. No. 155,631; July 4.
Strawboard, box board, binders' board, etc. C. L. Laboiteaux Company. No. 143,544; July 4.
Stucco. Atlas Portland Cement Company. Nos. 163,073–4; July 4.
Stucco. Atlas Portland Cement Company. No. 163,076; July 4.
Suits and overalls, Play. Devon Manufacturing Company. No. 158,606; July 4.
Tablecloths and napkins. Hale Bros., Inc. No. 158,712; July 4.
Tablets, composition books, student notebooks, etc., Writing. Osborn Paper Company. No. 162,947; July 4.
Tents of canvas or other fabric, Shelter. F. O. Berg. No. 159,785; July 4.
Tobacco, Cut and plug. Tuckett Tobacco Company. No. 144,358; July 4.
Toilet preparations. T. Noonan & Sons Company. No. 145,119; July 4.
Tomato catchup, cherries, oysters, salmon, etc. Wilson & Co. No. 129,819; July 4.
Tonic containing vitamines of yeast, Food. Yeast Tablet Co. No. 158,511; July 4.
Tonic, General. Stimule Company, Inc. No. 160,510; July 4.
Tonic wine used for anaemia, convalescence, etc. J. Counord. No. 159,790; July 4.
Tools. Skeleton Tool Co. No. 144,546; July 4.
Toy telephones. Kelley & Corwin. No. 163,448; July 4.
Typewriting machines, and parts thereof. Robert Fabig Gesellschaft mit beschränkter Haftung, Maschinen, u. Apparate-Fabric. No. 153,594; July 4.
Valves and cocks, gas appliances, Brass. Detroit Brass & Malleable Works. No. 153,649; July 4.
Valves, Metallic. Eckenroth Valve and Manufacturing Co. No. 161,120; July 4.
Valves, Oil. Ackswell Mfg. & Sales Co. No. 145,601; July 4.
Vanity case and corsage shield, Combined. S. B. Wertheimer. No. 161,289; July 4.
Vegetables, Fresh. Carlsbad Vegetable Growers Association. No. 158,292; July 4.
Vehicles, Trailers for motor. D. A. Newcomer Company. No. 162,484; July 4.
Vending machines. International Vending Machines Ltd. No. 157,317; July 4.
Wagons, Coaster. Sheffield Mfg. Co. Nos. 164,611–13; July 4.
Wagons, Coaster. Sheffield Mfg. Co. No. 164,615; July 4.
Washing powder. A. E. Kihn. No. 160,414; July 4.
Washing powder. H. B Rhymer No 149,102; July 4
Watch parts. Sussfeld, Lorsch & Schimmel. No. 154,100; July 4.
Webbing and shirred elastic ribbon, Elastic. A. Stein & Company. No. 148,623; July 4.
Webbing, Jute. Ludlow Manufacturing Associates. No. 162,182; July 4.
Winding frames. Atwood Machine Company. No. 158,556; July 4.
Wool and silk piece goods and combinations of same. Societe Rodier. No. 157,334; July 4.
Woolen piece goods. Societe Rodier. No. 157,587; July 4.
Woolen piece goods. J. P. Stevens & Co. Nos. 163,119–20; July 4.
Woolen piece goods. Worumbo Manufacturing Company. No. 159,192; July 4.
Woolen, merino, and cashmere piece goods. Societe Rodier. No. 157,333; July 4.
Yarns and sewing threads, Embroidery. R. Reynolds. No. 159,886; July 4.

CLASSIFICATION OF PATENTS

ISSUED JULY 4, 1922.

NOTE.—First number—class, second number—subclass, third number—patent number.

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174— 88: 1,421,516
177: 1,421,756
175— 183: 1,421,495
1,421,720
361: 1,421,899
364: 1,421,998
177— 311: 1,421,717
179— 58: 1,421,864
175: 1,421,702
176: 1,421,403
9: 1,421,387
55: 1,421,545
73: 1,421,836
82: 1,421,521
1,421,635
1,421,684
183— 15: 1,421,432
26: 1,421,484
184— 6: 1,421,440
1,421,718
1,421,826
11: 1,421,725
27: 1,421,470
48: 1,421,487
55: 1,421,858
103: 1,421,583
1,421,995
185— 39: 1,421,972
45: 1,421,404
187— 32: 1,421,945
188— 4: 1,421,910
77: 1,422,006
91: 1,421,785
100: 1,421,767
216: 1,421,697
223: 1,421,881
259: 1,421,412
189— 1: 1,421,950
37: 1,421,618
191— 44.1: 1,421,481
192— 5: 1,421,582
37: 1,422,082
43: 1,421,994
55: 1,421,565
59: 1,421,639
68: 1,421,554
193— 41: 1,421,540
194— 97: 1,421,453
102: 1,421,831
196— 5: 1,421,886
25: 1,422,038
197— 126: 1,421,946
143: 1,421,581
160: 1,421,780
196— 19: 1,422,057
117: 1,421,787
204: 1,422,002
200— 4: 1,421,493
39: 1,421,853
83: 1,421,940
106: 1,421,780
131: 1,421,376
150: 1,421,923
172: 1,421,855
202— 11: 1,421,445
206— 44: 1,421,384
207— 9: 1,421,820
210— 51: 1,421,658

210— 91: 1,421,948
158: 1,421,622
211— 9: 1,421,806
11: 1,421,679
13: 1,421,614
1,421,709
16: 1,421,391
34: 1,422,044
213— 17: 1,421,421
42: 1,421,556
64: 1,421,821
1,421,822
215— 1: 1,421,696
11: 1,421,877
99: 1,421,885
216— 3: 1,421,867
9: 1,421,730
218— 15.2: 1,421,483
219— 23: 1,421,850
25: 1,421,586
1,421,587
1,421,588
1,421,589
37: 1,421,959
38: 1,421,608
41: 1,421,633
47: 1,421,937
220— 20: 1,421,645
24: 1,421,411
36: 1,422,064
65: 1,421,628
67: 1,422,043
82: 1,421,964
230— 93: 1,421,804
1,421,979
221— 60: 1,421,777
116: 1,421,680
224— 1: 1,421,578
5: 1,421,451
226— 84: 1,421,698
228— 49: 1,421,372
229— 4.5: 1,421,649
30: 1,421,526
39: 1,421,494
43: 1,422,018
45: 1,421,443
82: 1,422,045
230— 13: 1,421,840
1,421,841
1,421,842
1,421,843
1,421,844
1,421,845
234— 12.5: 1,421,500
31: 1,421,390
43: 1,421,824
235— 60: 1,421,719
91: 1,422,024
236— 33: 1,421,692
34: 1,421,830
94: 1,421,517
238— 135: 1,422,010
331: 1,421,682
332: 1,421,457
380: 1,421,962
240— 2: 1,421,652
240— 2: 1,421,973
8.5: 1,421,399
1,421,528
1,421,561
1,421,944
41: 1,421,506
1,421,630
1,421,775
45.2: 1,421,838
48.4: 1,421,847
62: 1,421,368
1,422,025
92: 1,421,382
103: 1,421,406
106: 1,421,509
108: 1,421,415
241— 5: 1,421,690
242— 74: 1,421,933
84.1: 1,421,839
230.5: 1,421,442
244— 2: 1,421,369
1,421,846
12: 1,421,621
1,421,631
1,421,934
15: 1,421,550
25: 1,421,803
246— 121: 1,422,047
136: 1,421,880
182: 1,421,702
223: 1,421,769
311: 1,421,512
320: 1,421,444
246— 435: 1,421,963
453: 1,421,447
248— 20: 1,422,028
38: 1,421,398
41: 1,421,595
1,421,724
249— 58: 1,421,926
59: 1,421,925
250— 8: 1,422,013
251— 18: 1,421,687
92: 1,421,554
95: 1,421,765
253— 70: 1,421,892
194: 1,421,340
254— 67: 1,421,935
94: R. 15,397
111: 1,421,580
137: 1,421,998
255— 76: 1,421,396
257— 129: 1,421,542
130: 1,421,546
260— 3: 1,421,701
53: 1,421,743
106: 1,421,604
1,421,605
154: 1,421,869
166: 1,421,733
170: 1,421,640
261— 66: 1,421,790
262— 30: 1,421,557
263— 15: 1,421,852
264— 7: 1,421,660
19: 1,421,985
265— 22: 1,421,414
69: 1,421,825
266— 21: 1,421,989
38: 1,421,374
267— 1: 1,421,781
9: 1,421,819
1,421,900
32: 1,421,977
36: 1,421,759
45: 1,421,410
50: 1,421,551
54: 1,421,758
56: 1,421,760
4: 1,421,338
268— 7: 1,421,592
20: 1,421,983
270— 50: 1,421,569
271— 92: 1,421,889
99: 1,421,888
1,421,889
273— 1: 1,422,022
274— 15: 1,421,568
17: 1,421,472
277— 27: 1,421,572
279— 14: 1,421,949
77: 1,422,058
280— 2: 1,422,034
9: 1,422,041
33.4: 1,421,492
33.5: 1,421,402
1,422,040
106: 1,421,757
124: 1,421,788
282— 9: 1,421,461
285— 58: R. 15,400
290— 30: 1,422,027
291— 25: 1,421,745
292— 33: 1,422,020
247: 1,421,573
262: 1,421,691
1,421,798
318: 1,421,714
293— 15: 1,421,650
45: 1,421,693
55: 1,421,437
1,421,608
294— 1: 1,421,689
82: 1,421,993
295— 10: 1,421,553
296— 37: 1,421,732
44.5: 1,421,927
98: 1,421,942
97: 1,421,467
138: 1,421,400
141: 1,421,716
298— 22: 1,421,469
299— 34: 1,421,373
300— 12: 1,421,812
301— 39: 1,422,009
65: 1,421,643
67: 1,422,050
303— 6: 1,421,796
77: 1,421,651
304— 17: 1,421,609

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aarup, Hans C., Springfield, Ill. Air compressor. No. 1,422,070; July 11.

Abegg, Walter A., Los Angeles, Calif. Socket wrench. No. 1,422,067; July 11.

Adams, Carleton C. (See Grob, A. R., and Adams.)

Adams, Charles F., Swampscott, Mass., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn. Bed-laster end clasp. No. 1,422,806; July 11.

Adams, James D., Wabash, Ind. Knockdown table. No. 1,422,246; July 11.

Adamson, Allan A., Brooklyn, N. Y., and W. F. Grupe, Hudson Heights, N. J. Producing rim boards. No. 1,422,648; July 11.

Aillearn, Frank M., Greenville, Pa. Frame support. No. 1,422,104; July 11.

Aktiebolaget Ingeniörsfirma Fritz Egnell. (See Rodhe, Olof, assignor.) (Reissue.)

Aktiebolaget Ljungstroms Angturbin. (See Ljungstrom, Fredrik, assignor.)

Aladdin Renew Electric Lamp Corporation Limited. (See Coxon, S., and Williams, assignors.)

Alguire, Clifford G., Madison, S. Dak. Elevating rack for beds. No. 1,422,405; July 11.

Allen, Frank M., Ridley Park, Pa., assignor to General Chemical Company, New York, N. Y. Gassing liquors with SO_2. No. 1,422,327; July 11.

Allen, Paul W., Cedar Rapids, Iowa, assignor, by mesne assignments, to Penick & Ford, Ltd. Incorporated. Manufacture of grape sugar. No. 1,422,328; July 11.

Allenbaugh, George G., Mansfield, Ohio. Swimming device. No. 1,422,071; July 11.

Alquist, John C., Portland, Conn. Tool holder. No. 1,422,247; July 11.

Aluminum Company of America. (See Frary, Francis C., assignor.) (Reissue.)

Aluminum Seal Company. (See Sharp, John, assignor.)

American Abrasive Metals Company. (See Napolitan, Francis J., assignor.)

American Automatic Lock and Lift Company. (See Wheelock, Arthur C., assignor.)

American Balsa Company. (See Broady, Harry W., assignor.)

American Brake Company, The. (See Wahlert, H. A., and Redford, assignors.)

American Investigation Corporation. (See Schuette, Johann, assignor.)

American Lux Products Corporation. (See Troeger, John F. R., assignor.)

American Pulley Company, The. (See Bilger, W. A., and Walker, assignors.)

American Steel and Wire Company of New Jersey, The. (See Carstarphen, Frederick C., assignor.)

American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)

American Smelting and Refining Company. (See Howard, William H., assignor.)

Amundson, Peter A., assignor of one-half to T. A. Amundson, Oconomowoc, Wis. Variable-speed gear. No. 1,422,072; July 11.

Amundson, Thomas A. (See Amundson, Peter A., assignor.)

Anderson, Albin E., Oakmont, assignor of two-thirds to E. M. Verner and J. W. Macfarlane, Pittsburgh, Pa. Wire-rope machine. No. 1,422,073; July 11.

Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)

Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Truck side frame. No. 1,422,074; July 11.

Applas, Clarence S., Sacramento, Calif. Vehicle curtain fastener. No. 1,422,513; July 11.

Aptowicz, Leon, Yonkers, N. Y. Ash receptacle. No. 1,422,165; July 11.

A. P. W. Paper Co. (See Crandell, Willis S., assignor.)

Arbuckle, Alexander J., Johannesburg, Transvaal, South Africa. Apparatus for separating the liquid and solid components of mixtures of liquids and crushed or ground ore products. No. 1,422,514; July 11.

Arndt, John P., Milwaukee, Wis. Disconnecting device. No. 1,422,248; July 11.

Arndt, William F., Watertown, Wis. Pressure-signaling device for tires. No. 1,422,068; July 11.

Aronson, Louis V., Newark, N. J. Sparking toy. No. 1,422,075; July 11.

Asseltine, Fred E., assignor to Cadillac Motor Car Company, Detroit, Mich. Carburetor. No. 1,422,329; July 11.

Atkins, Charles H., Palmer, Mass. Steam trap. No. 1,422,069; July 11.

Athons, Fred M., Los Angeles, Calif. Direction indicator for motor vehicles. No. 1,422,330; July 11.

Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,515; July 11.

Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,516; July 11.

Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,517; July 11.

Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,518; July 11.

Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,519; July 11.

Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,520; July 11.

Automatic Electric Heater Company. (See Clark, Warren F., assignor.)

Averitt, Robert W., Fort Worth, Tex. Water heater. No. 1,422,521; July 11.

Babcock, Everett P., et al. (See Power, Dudley P., assignor.)

Bach, Emmann, Woonsocket, R. I. Self-opening knurling tool. No. 1,422,649; July 11.

Baird, Frank T., Blue Island, Ill. Adapter. No. 1,422,331. July 11.

Bakula, Edward J., St. Louis, Mo. Phonograph-record brush. No. 1,422,166; July 11.

Baldwin Locomotive Works, The. (See Shannon, Ellwood M., assignor.)

Barbé, Maxime. (See Bernard, P., and Barbé.)

Bareiss, John C., Philadelphia, Pa. Pipe and tube tester. No. 1,422,522; July 11.

Barpar, Frederick C., Columbus, Ohio, assignor to Foamite Firefoam Company, New York, N. Y. Fire extinguisher. No. 1,422,406; July 11.

Barnard, Samuel G. (See Dotzer, H., and Barnard.)

Barry, Gerald G., Chicago, Ill. Wheel. No. 1,422,167; July 11.

Barry, Gerald G., Chicago, Ill. Metal wheel. No. 1,422,168; July 11.

Bartholdy, Max, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Indicating-lever-limit gauge. No. 1,422,169; July 11.

Barton, William L., assignor of forty-five per cent to J. L. Kerr, Vancouver, British Columbia, Canada. Overhead-wire transport system. No. 1,422,650; July 11.

Bausch & Lomb Optical Company. (See Poser, Max, assignor.)

Bava, Antonio G., San Francisco, Calif. Belting tool. No. 1,422,332; July 11.

Baxter, William C., assignor to E. M. Trimble, doing business as the E. M. Trimble Manufacturing Company, Rochester, N. Y. Hinge. No. 1,422,651; July 11.

Bay State Pump Company. (See Waterhouse, Harold D., assignor.)

Beach, Clarence E., Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company. Signaling mechanism. No. 1,422,523; July 11.

Beal, Ralph W. and W. V., Alliance, Nebr. Bag holder. No. 1,422,524; July 11.

Beal, Warren V. (See Beal, Ralph W. and W. V.)

Beebe, John A., assignor of one-fourth to P. A. Greaves, Omaha, Nebr. Dumping mechanism for trucks. No. 1,422,077; July 11.

Becher, Theodor, Gustavsburg, assignor to Machinenfabrik Augsburg-Nuernberg A. G., Nuernberg, Germany. Segment gate. No. 1,422,076; July 11.

Becker, Adolph, Wheeling, W. Va. Matrix and distributing apparatus for type-casting machines. No. 1,422,333; July 11.

Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread cutter. No. 1,422,407; July 11.

Bellamore, David H., New York, N. Y., and T. I. S. Boak, East Orange, N. J.; said Boak assignor to said Bellamore. Rim construction for pressed-steel wheels. No. 1,422,408; July 11.

Bell, William A., Kenosha, Wis., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp ring. No. 1,422,525; July 11.

Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. No. 1,422,170; July 11.

Bennett, Clarence W., New York, N. Y. Velocipede. No. 1,422,171; July 11.

Bennett, Clarence W., New York, N. Y. Velocipede. No. 1,422,172; July 11.

Benoit, Napoleon, Watervliet, N. Y. Thread-cutting tool. No. 1,422,652; July 11.

Berdan, Jacob M., Paterson, N. J., assignor to Johns-Manville Incorporated. Roofing. No. 1,422,526; July 11.

Berger, Christian, assignor of one-half to F. L. Sawyer, New York, N. Y. Color print viewable by lights of different colors and making same. No. 1,422,527; July 11.

Bernard, James L., Beaver, Pa. Safety screen. No. 1,422,409; July 11.

Bernard, Paul, Boulogne-sur-Seine, and M. Barbé, Paris, France. Apparatus for lighting and extinguishing gas burners of street lamps. No. 1,422,249; July 11.

Berringer, Henry J., San Francisco, Calif. Fender lamp. No. 1,422,528; July 11.

Berry, Frederick E., Hayes, England. Electrical transformer for regulating or varying the voltage of the current supplied therefrom. No. 1,422,653; July 11.

Beucler, Harvey L., Lake Park, Minn. Potato cutter. No. 1,422,731; July 11.

Biggerstaff, Frank G., Kansas City, Mo. Harrow. No. 1,422,173; July 11.

Bihn, William H., Petaluma, Calif. Egg turner. No. 1,422,250; July 11.

Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine starting device. (Reissue.) No. 15,403; July 11.

Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.) (Reissue.)

Bilger, Walter A., and A. C. Walker, assignors to The American Pulley Company, Philadelphia, Pa. Ladder and manufacturing the same. No. 1,422,654; July 11.

Billingham, Milton C. J., assignor of one-half to H. L. Vander Horst, Kalamazoo, Mich. Method of and apparatus for disintegrating paper stock. No. 1,422,251; July 11.

Bingaman, Raymond A., Batavia, Ohio. Advertising device. No. 1,422,529; July 11.

Biroscak, Stephen S. K., Bridgeport, Conn. Toy. No. 1,422,334; July 11.

Blackwell, Demarkus S., San Springs, Okla. Automobile sand and mud dog for attaching to vehicle wheels. No. 1,422,078; July 11.

Blanton, John B., Chattanooga, Tenn., assignor of one-half to H. A. Wingers, St. Louis, Mo. Shutter for motion-picture-projecting machines. No. 1,422,410; July 11.

Boak, Thomas I. S. (See Bellamore, D. H., and Boak.)

Boettcher, Otto J., assignor of two-fifths to F. W. Mans and one-fifth to G. C. Hume, Chilton, Wis. Hoisting tackle. No. 1,422,174; July 11.

Bonsor, Walter, assignor of one-half to W. C. Steenburg, South Bend, Ind. Carbonizing method. No. 1,422,530; July 11.

Borden Company, The. (See Nonneman, Ira W., assignor.)

Boreiko, Ladislas B., Honolulu, Hawaii. Loading and transporting apparatus. No. 1,422,252; July 11.

Borick, Frank V., New York, N. Y. Screw driver. No. 1,422,411; July 11.

Boston Pressed Metal Co. (See Needham, William H., assignor.)

Boughter, H. Dixon, Decatur, Ill. Movable headlight. No. 1,422,732; July 11.

Boyce, Carrol R., Wautoma, Wis. Automatic tool-dropping machine. No. 1,422,531; July 11.

Bradley, Walter E. F., Nyack, N. Y. Metallurgical process. No. 1,422,734; July 11.

Bradley, Walter E. F., New York, N. Y. Producing iron and steel. No. 1,422,733; July 11.

Braley, Wayne M. (See Mitton, R. E., and Braley.)

Brehmer, William G. H., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing and making same. No. 1,422,655; July 11.

Breit, Martin M., assignor of one-half to Light Publishing Company, San Antonio, Tex. Machine for making ornamental rules and borders. No. 1,422,532; July 11.

Brennan, James, New Orleans, La. Banana unloader. No. 1,422,656; July 11.

Brennan, John S., Milwaukee, Wis. Burner-lifting means. No. 1,422,079; July 11.

Briggs, Isabelle M., executrix. (See Briggs, Thomas L.)

Briggs, Thomas L., deceased, by I. M. Briggs, Flushing, executrix, assignor to General Chemical Company, New York, N. Y. Making chlorosulphonic acid. No. 1,422,335; July 11.

Broady, Harry W., Bayside, N. Y., assignor to American Balsa Company, Inc. Life raft. No. 1,422,657; July 11.

Bronnert, Emile, Mulhausen, France. Manufacture of artificial silk. No. 1,422,412; July 11.

Brooks, Lloyd B., assignor to Stay-Rite Mfg. Co., Philadelphia, Pa. Necktie retainer. No. 1,422,658; July 11.

Brown, Albert F., Los Angeles, and L. B. Burck, Pasadena, Calif. Automatic means for controlling electrically-heated devices. No. 1,422,735; July 11.

Brown, Clement, Birchfield, Birmingham, England. Carburetor for internal-combustion engines. No. 1,422,413; July 11.

Brown, Colin, Rochester, N. Y. Powder distributor. No. 1,422,253; July 11.

Brown Company. (See Parker, Howard, assignor.)

Brown, Earl R., Redlands, Calif. Ore separator. No. 1,422,736; July 11.

Brown, Grace C., San Francisco, Calif. Water cycle. No. 1,422,533; July 11.

Brown, Orlando H., Victoria, British Columbia, Canada. Grain elevator. No. 1,422,534; July 11.

Brown, Ralph D. (See Luetgert, A. C., and Melkiejohn, assignors.)

Brown, Thomas E. (See Hoover, W. W., and Brown.)

Brown, Walter D. R., and W. T. Pickston, Bolton, England. Apparatus for automatic and continuous analysis and recording of gases. No. 1,422,080; July 11.

Buccicone, Dario, Canonsburg, Pa. Feeding mechanism for tinning machines. No. 1,422,535; July 11.

Buckeye Iron & Brass Works. (See Sauer, George A., assignor.)

Buckham, George T. (See Dawson, A. T., and Buckham.)

Buckham, George T., and J. I. Nasmith, assignors to Vickers Limited, Westminster, London, England. Wire-stretching machine. No. 1,422,081; July 11.

Bucyrus Company. (See Gage, Clarence E., assignor.)

Bullard, Lester H., San Leandro, Calif. Selective coupling. No. 1,422,536; July 11.

Bulman, Elvah O., Grand Rapids, Mich. Bag holder. No. 1,422,659; July 11.

Bump, George P., La Crosse, Wis. Loop-forming terminal clamp. No. 1,422,660; July 11.

Burck, Lawrence B. (See Brown, A. F., and Burck.)

Burke Electric Company. (See Burke, James, assignor.)

Burke, James, Erie, Pa., assignor to Burke Electric Company. Rotor spider. No. 1,422,414; July 11.

Burke, Paul, Green Bay, Wis., assignor, by mesne assignments, to Northwest Engineering Company. Control means for locomotive cranes. No. 1,422,082; July 11.

Burke, Wilbur B., Cleveland, Ohio. Making tires. No. 1,422,537; July 11.

Burns, Thomas A., assignor to Dunlop Tire and Rubber Goods Company, Limited, Toronto, Ontario, Canada. Apparatus for solutionizing tire beads. No. 1,422,083; July 11.

Business Systems, Limited. (See Roberts, Herbert L., assignor.)

Butcher, Harry E., assignor to The Standard Parts Company, Cleveland, Ohio. Demountable vehicle wheel rim. No. 1,422,661; July 11.

Bylger, Frans I. L., Jersey City, N. J. Troughing pulley for belt conveyers. No. 1,422,662; July 11.

Cadillac Motor Car Company. (See Aseltine, Fred E., assignor.)

Callison, Abner F., Buffalo Creek, Colo. Loading and unloading means and portable body for trucks. No. 1,422,663; July 11.

Cameron, Hugh, Newark, assignor to R. D. Kent, Passaic, N. J. Automatic scale. No. 1,422,664; July 11.

Cameron, William H., assignor to Radium Chemical Company, Pittsburgh, Pa. Tool. No. 1,422,538; July 11.

Carlson, Carl O., Riverside, Calif. Hand truck. No. 1,422,254; July 11.

Carr, Thomas J., Newcastle-upon-Tyne, England. Ship's davit. No. 1,422,175; July 11.

Carrier, Carl F. P., Philadelphia, Pa. Automatic electrical controlling device. No. 1,422,415; July 11.

Carstarphen, Frederick C., Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey. Aerial tramway. No. 1,422,255; July 11.

Carter, Martin E., Philadelphia, Pa. Strainer for sugar juices. No. 1,422,737; July 11.

Caspari, Karl, Frankfort-on-the-Main-Ginnheim, Germany. Tensioning peg for stringed instruments. No. 1,422,738; July 11.

Cathrill, Jack, Los Angeles, Calif. Valve lock. No. 1,422,336; July 11.

Catlett, Charles, Staunton, Va. Oxysalt composition. No. 1,422,337; July 11.

Central Manufacturing Company. (See Schuette, August E., assignor.)

Chain Belt Company. (See Fraser, D., Shafer, and Levalley, assignors.)

Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Folder for sewing machines. No. 1,422,176; July 11.

Chanier, Gaston L., Jersey City, N. J., assignor to Pathe Exchange Inc., New York, N. Y. Film-testing machine. No. 1,422,665; July 11.

Champion Ignition Company. (See McDougal, T. G., and McDowell, assignors.)

Chapdelaine, Norbert, assignor, by mesne assignments, to International Toy Company, Limited, Montreal, Quebec, Canada. Child's vehicle. (Reissue.) No. 15,404; July 11.

Chapman, Frank C., Modesto, Calif. Combustion and mixing chamber for dehydrators. No. 1,422,416; July 11.

Chase-Shawmut Company, The. (See Conant, Franklin N., assignor.)

Cherry, Isaac W., Pensacola, Fla. Window screen. No. 1,422,539; July 11.

Chesnutt, Owen L., Atlanta, Ga. Tape or web printing machine. No. 1,422,666; July 11.

Chladek, Joseph F., Niobrara, Nebr. Haystacker. No. 1,422,667; July 11.

Chleso, Jorgen E., San Francisco, Calif. Brush. No. 1,422,739; July 11.

Christensen, John L., Chicago, Ill. Fiber-board box. No. 1,422,540; July 11.

Christofferson, Christian A., St. Paul, Minn. Signal lamp. No. 1,422,668; July 11.

Christofferson, Christian A., St. Paul, Minn. Illuminated signal. No. 1,422,669; July 11.

Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,422,338; July 11.

Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Shaft coupling. No. 1,422,339. July 11.

Clanton, Grover C., Bayonne, N. J. Wall-radiator bracket. No. 1,422,177; July 11.

Clark, Warren F., Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa. Mold adapted for use in vulcanizing rubber articles. No. 1,422,084; July 11.

Clayborne, Ell, Hot Springs, Ark. Snowplow. No. 1,422,417; July 11.

Cleghorn, Charles A., Bedfordshire, assignor to The Gayner Pneumatic Company, Limited, London, England. Receptacle, flexible conduit gas mask, and the like. No. 1,422,670; July 11.

Cleveland Graphite Bronze Company, The. (See Brehmer, William G. H., assignor.)

Cochran, Clyde E., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Spring steering fork for wheeled vehicles. No. 1,422,671; July 11.

Coen Co. (See Sherwood, Carlyle J., assignor.)

Coghlan, Thomas G., Wellsburg, W. Va. Thermocouple. No. 1,422,672; July 11.

Cohen, William, Bayonne, N. J. Gasoline soldering iron. No. 1,422,740; July 11.

Colby, Henry H., Tallula, Ill. Subsoil attachment for plows. No. 1,422,418; July 11.

Collier, Shade B., Orlando, Fla. Grease retainer. No. 1,422,741; July 11.

Collins, James, Lancaster, Pa. Parcel and package elevator or carrier. No. 1,422,673; July 11.

Colonial Stamping Company. (See Schultz, Abraham J., assignor.)

Columbia Graphophone Manufacturing Company. (See Hinckley, Frank C., assignor.)

Commonwealth Shoe & Leather Company. (See Jones, Paul, assignor.)

Conant, Franklin N., Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company. Renewable fuse. No. 1,422,419; July 11.

Conant, Franklin N., Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company. Renewable fuse. No. 1,422,420; July 11.

Conrad, Frederick A. and J. L., Los Angeles, Calif. Cap gauge for pneumatic tires. No. 1,422,256; July 11.

Conrad, James L. (See Conrad, Frederick A. and J. L.)

Consolidated Tool Works. (See Thompson, W., and Roy, assignor.)

Continuous Process Coke Company. (See Helmholtz, Arthur W., assignor.)

Cook, Edward F., Freeport, N. Y. Settling and septic tank. No. 1,422,674; July 11.

Cook, William P., Laramie, Wyo. Tester. No. 1,422,742. July 11.

Cooley, Roswell P., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Valve. No. 1,422,178; July 11.

Cooper, Francis W., and H. Steadworthy, Montreal, Quebec, Canada. Anchor and clip for rails and the like. No. 1,422,340; July 11.

Corcoran, Daniel P., Gridley, Calif. Gradometer. No. 1,422,743; July 11.

Corona Manufacturing Company, The. (See Schlinglof, Frank C., assignor.)

Cortese, Frank, New Brunswick, N. J. Bed attachment. No. 1,422,744; July 11.

Coté, Adrian. (See Coté, Arthur J., and Coté.)

Coté, Arthur J., and A. Coté, Franklin, Mass. Attachment for spinning machines. No. 1,422,745; July 11.

Cottom, Albert E., East Brunswick, near Melbourne, Victoria, Australia. Manufacturing castings for shaping and drying hosiery. No. 1,422,675; July 11.

Couse, Kibbey W., New York, N. Y. Keyway locator. No. 1,422,746; July 11.

Coward, John D., Newton Upper Falls, Mass. Traffic signal. No. 1,422,179; July 11.

Coxon, Sydney, Liverpool, and W. A. Williams, Wallasey, assignors to The Aladdin Renew Electric Lamp Corporation Limited, London, England. Renewal of the filaments in metal-filament electric lamps. No. 1,422,747; July 11.

Crandell, Willis S., Elsmere, assignor to A. P. W. Paper Co., Albany, N. Y. Cylinder paper-making machine. No. 1,422,541; July 11.

Crane, Richard. (See Snadecki, William J., assignor.)

Creed, Frederick G., Croydon, England. Multiple-hull boat. No. 1,422,542; July 11.

Cross, Guy C., Denver, Colo. Photographic film rack. No. 1,422,341; July 11.

Cullen, Bernard P., and M. J. Wochus, Jersey City, N. J. Hand-bag catch. No. 1,422,748; July 11.

Cuno Engineering Corporation. (See Cuno, Charles F., assignor.)

Cuno Engineering Corporation, The. (See Cuno, Charles H., assignor.)

Cuno, Charles F., assignor to The Cuno Engineering Corporation, Meriden, Conn. Electric switch and stop for winding drums. No. 1,422,181; July 11.

Cuno, Charles H., assignor to The Cuno Engineering Corporation, Meriden, Conn. Electric switch for winding drums. No. 1,422,180; July 11.

Cunningham, Orin D., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Method and apparatus for mixing solid materials with liquids. No. 1,422,421; July 11.

Curme, George O., Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Treating gaseous hydrocarbon mixtures. No. 1,422,182; July 11.

Curme, George O., Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Treating gaseous mixtures. No. 1,422,183; July 11.

Curme, George O., Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y. Separating ethylene and other components from gaseous mixtures containing the same. No. 1,422,184; July 11.

Curry, Warren W. (See Darling, J., and Curry.)

Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)

Cutler-Hammer Mfg. Co., The. (See Rodman, Thomas H., assignor.)

Czarnecki, Boleslaw V., Schenectady, N. Y. Drinking-glass holder. No. 1,422,676; July 11.

Dalits, Harry, assignor to J. C. Hipp, Cleveland, Ohio. Gripping and pulling tool. No. 1,422,185; July 11.

Dameron, Adolphus, Cleveland, Ohio. Work holder. No. 1,422,749; July 11.

D & W Specialty Company. (See Demmer, Paul E., assignor.)

D'Andrea, Nicola, assignor of one-half to M. Persichino, Bridgeport, Conn. Repair tip for shoes. No. 1,422,543; July 11.

Dann, Ernest G., Cleveland, Ohio., assignor to The Dann Products Company. Manufacturing composite articles for bearings or other purposes. No. 1,422,677; July 11.

Dann Products Company, The. (See Dann, Ernest G., assignor.)

Darling, Joseph, and W. W. Curry, Chicora, Pa. Bung for tank filling and discharge fittings. No. 1,422,342; July 11.

Darling, Loren W., assignor of one-half to A. E. Hammerschmidt, Sycamore, Ill. Box machine. No. 1,422,544; July 11.

Davies, David, Llanelly, and D. Jones, Tircoed, Wales. Apparatus used in the manufacture of sheet-metal plates. No. 1,422,085; July 11.

Davies, Elmer C., Portland, Oreg. Piston globe valve. No. 1,422,343; July 11.

Davis, Calvin R., assignor to Emerson-Brantingham Company, Rockford, Ill. Coupling for train of binders, mowers, and other vehicles. No. 1,422,186; July 11.

Davis, John A. (See Hammond, Harry F., assignor.)

Davis, Harmon L., Greenville, Pa. Lock nut. No. 1,422,750; July 11.

Davis, Meshack, Schlater, Miss. Folding feed box. No. 1,422,422; July 11.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ammunition hoisting and loading apparatus for ordnance. No. 1,422,678; July 11.

Dayton, Curtis I., Chicago, Ill., assignor of one-half to E. L. Dayton, Detroit, Mich. Coating apparatus. No. 1,422,545; July 11.

Dayton, Ernest L. (See Dayton, Curtis I., assignor.)

Day, William H., Lockport, N. Y. Drainage tank for automobile radiators. No. 1,422,679; July 11.

Delano, Frank, et al. (See Power, Dudley P., assignor.)

Delkeskamp, Henry D. (See Mulherin, James A., assignor.)

Demmer, Paul E., assignor to D. & W. Specialty Company, Marysville Calif. Bumper. No. 1,422,546; July 11.

Denbrook, Fred W., Fond du Lac, Wis. Motor-driven sled. No. 1,422,751; July 11.

Dexter, Arthur C., Radford, Va. Means for connecting automobile bodies to the chassis. No. 1,422,086; July 11.

Des Parcis, Aristide H., Montreal, Quebec, Canada. Heating apparatus. No. 1,422,087; July 11.

Des Parois, Aristide H., Montreal, Quebec, Canada. Heating apparatus. No. 1,422,088; July 11.

Detwiler, Forest V., Pottstown, Pa. Hydrocarbon burner. No. 1,422,752; July 11.

Dever, Henry L., Owensboro, Ky. Grading machine. No. 1,422,753; July 11.

Dever, Henry L., Owensboro, Ky. Grader. No. 1,422,754; July 11.

Dewey, Frank H., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle hoist device. No. 1,422,344; July 11.

Desendorf, Richard L., Richmond Hill, N. Y. Means for and method of proving gas meters. No. 1,422,089; July 11.

Dickie, David S., Winifred, Mont. Garden tool. No. 1,422,090; July 11.
Dipworth, Hermann B., Saginaw, Mich. Vehicle spring. No. 1,422,755; July 11.
Disston, Henry, & Sons, Incorporated. (See Rogers, George L., assignor.)
Dithmer, Reimer N., Chicago, Ill. Fishplate for railway rails. No. 1,422,187; July 11.
Doman, Herman C., Oshkosh, Wis. Washing machine. No. 1,422,547; July 11.
Donald, Donald, Sydney, New South Wales, Australia. Stay for casement windows. No. 1,422,680; July 11.
Donaldson, William T., St. Paul, Minn., assignor to Standard Conveyor Company. Detector for elevators and conveyers. No. 1,422,091; July 11.
Dörffel, Ernst, Bernburg, Germany. Brush holder for electric machines. No. 1,422,188; July 11.
Doty, Leman E., Elyria, Ohio, and F. H. Smith, Brentwood Borough, Pa. Apron for coke-oven doors. No. 1,422,756; July 11.
Dotzer, Hugo, and S. G. Barnard, Seattle, Wash.; said Barnard assignor to said Dotzer. Brake mechanism. No. 1,422,423; July 11.
Douglas, Harry A., Bronson, Mich. Circuit connector. No. 1,422,257; July 11.
Douglas, William, Pawtucket, R. I. Trammel. No. 1,422,345; July 11.
Dovan Chemical Corporation. (See Weiss, Morris L., assignor.)
Dow Chemical Company, The. (See Harlow, Ivan F., assignor.)
Doyle, Mason I. (See Schweinsberg, G. W., and Doyle.)
Draper Corporation. (See Stafford, Alfred E., assignor.)
Draper Corporation. (See Stimpson, Edward S., assignor.)
Druar, Frank J., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,422,346; July 11.
Dultmeier, Frank J., Manning, Iowa. Adjustable repair tongue hound. No. 1,422,681; July 11.
Duncan, Thomas, East Chicago, Ind. Cigarette holder. No. 1,422,347; July 11.
Duncan, Wayne A., Chicago, Ill. Electric steam-pressure cooker. No. 1,422,348; July 11.
Dunkerton, Richard D. (See Johannes, E. E., and Dunkerton.)
Dunlop Tire and Rubber Goods Company. (See Burns, Thomas A., assignor.)
Dunn, William, Bannack, Mont. Animal trap. No. 1,422,424; July 11.
Dunn, William, Bannack, Mont. Track brace. No. 1,422,425; July 11.
Duplex Holding Company. (See Meyer, A., and Walsh, assignors.)
Du Pont, E. I., de Nemours & Company. (See Gibbs, Harry D., assignor.)
Du Pont, E. I., de Nemours & Company. (See Grob, A. R., and Adams, assignors.)
Du Pont, E. I. de Nemours and Company. (See Tanberg, Arthur P., assignor.)
Dvorak, Wenzel, Fernie, British Columbia, Canada. Pipe wrench. No. 1,422,548; July 11.
Eastern Malleable Iron Company, The. (See Haugh, T. M., Schilling, and Finch, assignors.)
Eastman Kodak Company. (See Riddell, William A., assignor.)
Eaves, Augustus J., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiple switch. No. 1,422,549; July 11.
Eckertz, Heinrich, Essen-Rellinghausen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Coupling member for vehicles. No. 1,422,189; July 11.
Egerton, Henry C., Ridgewood, N. J. Friction driving device. No. 1,422,550; July 11.
Eigabroadt, Harry C., Amsterdam, N. Y. Signal-indicator system. No. 1,422,349; July 11.
Eklund, John G., assignor to St. Joseph Iron Works, St. Joseph, Mich. Mechanical movement. No. 1,422,682; July 11.
Electric Vacuum Cleaner Company. (See Hoff, Earl B., assignor.)
Electric Vacuum Cleaner Company. (See Kirby, James B., assignor.)
Elrod, Milton, Indianapolis, Ind., assignor to Warriner Manufacturing Company. Filter. No. 1,422,190; July 11.
Eltgroth, John N., Fairmont, Minn. Boot protector. No. 1,422,683; July 11.
Elwell, Cyril F. (See Lane, Charles J., assignor.)
Elwell-Parker Electric Company, The. (See Cochran, Clyde E., assignor.)
Emerson-Brantingham Company. (See Davis, Calvin R., assignor.)
Emerson, Lawerence, Percy, Iowa. Tractor plow. No. 1,422,350; July 11.
Emery, Harvey L., Worthington, assignor to Self Lay Block & Machine Company, Vincennes, Ind. Building block. No. 1,422,258; July 11.
Erskine, Gordon. (See Grace, Edwin B., assignor.)
Evans, John. (See Van Cott, A., and Evans.)
Facciuto, Louis, Jr., et al. (See Facciuto, Luigi, Sr., assignor.)
Facciuto, Luigi, Sr., Flushing, assignor of one-third to L. Facciuto, Jr., Lansing, and one-third to F. C. Leon, Flushing, Ohio. Railway-switch stand. No. 1,422,191; July 11.
Falley, Lewis H., Kansas City, Mo. Separating and classifying apparatus. No. 1,422,092; July 11.
Farmers Standard Carbide Co. (See Bogats, William B., assignor.)
Farr, Warren H., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Cooling system for internal-combustion engines. No. 1,422,426; July 11.
Fauchon-Villeplée, André L. O., Paris, France. Electric apparatus for propelling projectiles. No. 1,422,427; July 11.
Fessler, Otto, Irvington, N. J. Bracelet link. No. 1,422,428; July 11.
Fiechtl, Ferdinand, Cherryvale, Kans. Vertical smelting furnace. No. 1,422,684; July 11.
Filkins, Charles D., Schenectady, N. Y., assignor to General Electric Company. Connection for electrical apparatus. No. 1,422,429; July 11.
Finch, John W. (See Haugh, T. M., Schilling, and Finch.)
Firestone Tire and Rubber Company, The. (See Heller, Jacob E., assignor.)
Fisk Rubber Company, The. (See Fording, William G., assignor.) (Reissue.)
Fisk Rubber Company, The. (See Knaus, Peter J., assignor.)
Fisk Rubber Company, The. (See Taylor, Edward C., assignor.)
Fitchet, Charles L., San Francisco, Calif. Mirror structure. No. 1,422,685; July 11.
Fitzsimons, Theodore F., Stanmore, near Sydney, New South Wales, Australia. Can-body-ending machine. No. 1,422,192; July 11.
Fletcher, John D. (See Sullivan, C. L., and Fletcher.)
Fletcher, John D., Evansville, Ind. Paving block and roadway constructed therefrom. No. 1,422,551; July 11.
Florin, John L., Davenport, Wash. Gear wheel. No. 1,422,351; July 11.
Foamite Firefoam Company. (See Bargar, Frederick C., assignor.)
Forbes, Alexander J., Brooklea, North Kessock, Scotland. Fastening for driving belts. No. 1,422,430; July 11.
Forbes, Kingston, Flint, assignor to General Motors Corporation, Detroit, Mich. Combination back and side curtain. No. 1,422,431; July 11.
Forbes, Percy L., West Middlesex, Pa. Hay loader. No. 1,422,432; July 11.
Fording, William G., Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. (Reissue.) No. 15,405; July 11.
Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Fare-recording apparatus. No. 1,422,686; July 11.
Fornas, Louis, Paris, France. Gas producer. No. 1,422,093; July 11.
Forsyth, George H., Chicago, Ill. Spare-tire carrier. No. 1,422,094; July 11.
Fournier, Frederick, San Francisco, Calif. Window adjuster. No. 1,422,552; July 11.
Fowler, Edward, and J. V. Lewis, St. Elmo, Tenn. Draft coupling. No. 1,422,194; July 11.
Fowler, Jonathan O., New York, N. Y. Key base for plastic material. (Reissue.) No. 15,406; July 11.
Fox, John C. (See Phelps, H. C., and Fox.)
Frankenbüsch, Otto, Vienna, Austria. Apparatus for inking ribbons for typewriters of any make. No. 1,422,757; July 11.
Frary, Francis C., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. (Reissue.) No. 15,407; July 11.
Fraser, Donald, S. Shafer, Jr., and C. W. Levalley, deceased, by H. P. Levalley and Wisconsin Trust Company, executors, assignors to Chain Belt Company, Milwaukee, Wis. Apparatus for conveying and delivering material. No. 1,422,687; July 11.
Friederich, Ernst, Berlin, Germany, assignor to General Electric Company. Inclosed-arc lamp and starting the same. No. 1,422,553; July 11.
Fried. Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
Fried. Krupp Aktiengesellschaft. (See Eckertz, Heinrich, assignor.)
Fried. Krupp Aktiengesellschaft Germaniawerft. (See Grunwald, Carl, assignor.)
Fried. Krupp Aktiengesellschaft. (See Heilemann, Walter, assignor.)
Frink, I. F., Inc. (See Spencer, William H., assignor.)
Fries, Rudolf, Berlin-Schoneberg, Germany. Typewriting machine. No. 1,422,433; July 11.
Froman, Joseph D., Vevay, Ind. Amusement device. No. 1,422,688; July 11.
Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag frame. No. 1,422,554; July 11.
Fuller, Franz A., assignor to The J. E. Mergott Co., Newark, N. J. Blotter. No. 1,422,555; July 11.
Funk, Everett W., Columbus, Ohio. Combination wrench. No. 1,422,689; July 11.
Futurist Company, The. (See Mower, Edward B., assignor.)
Gabet, Gustave, Paris, France. Heating system. No. 1,422,556; July 11.
Gablenz, Adolf, Lubeck, Germany. Door lock. No. 1,422,690; July 11.
Gage, Clarence E., Evansville, Ind., assignor to Bucyrus Company, South Milwaukee, Wis. Saddle-block structure for excavators. No. 1,422,259; July 11.

Gamewell Fire Alarm Telegraph Company, The. (See Beach, Clarence E., assignor.)
Ganam, Charles C., St. Paul, Minn., assignor to Waldorf Paper Products Company. Scoring and trimming machine. No. 1,422,095; July 11.
Gape, Henry B., Detroit, Mich. Hood fastener. No. 1,422,691; July 11.
Garbeth, George, Stockton, Calif. Piston-ring compressor. No. 1,422,557; July 11.
Gardan, Coll E., Wilson Creek, Wash. Extracting fertilizing elements from manure. No. 1,422,434; July 11.
Gardiner, Lou M., assignor to The Iron Horse Tractor Co., Pittsburgh, Pa. Tractor. No. 1,422,558; July 11.
Garrison, Cassius M. (See South, Mahlon C., assignor.)
Gayner Pneumatic Company, Limited, The. (See Cleghorn, Charles A., assignor.)
General Chemical Company. (See Allen, Frank M., assignor.)
General Chemical Company. (See Briggs, Thomas L., assignor.)
General Electric Company. (See Filkins, Charles D., assignor.)
General Electric Company. (See Friederich, Ernst, assignor.)
General Electric Company. (See Halvorson, Cromwell, A. B., Jr., assignor.)
General Electric Company. (See Stalberg, Sven, assignor.)
General Motors Corporation. (See Farr, Warren H., assignor.)
General Motors Corporation. (See Forbes, Kingston, assignor.)
General Motors Corporation. (See Hamilton, Alexander C., assignor.)
General Motors Corporation. (See Whitten, Frank A., assignor.)
Germani, Bernard F., Seattle, Wash. Liquid container. No. 1,422,559; July 11.
Ghetia, Nichitu V., Cleveland, Ohio. Hair clipper. No. 1,422,352; July 11.
Gibbons, Nathan A., Martins Ferry, Ohio, assignor to Whitaker-Glessner Company, Wheeling, W. Va. Collapsible box. No. 1,422,692; July 11.
Gibbs, Harry D., Pennsgrove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making aluminum chloride. No. 1,422,560; July 11.
Gillmor, Horatio G., Washington, D. C. Anticreeper. No. 1,422,260; July 11.
Girin, Pierre, assignor to Societe Anonyme de Commentry, Fourchambault & Decazeville, Paris, France. Alloy containing iron, nickel, chromium. No. 1,422,096; July 11.
Gochenour, Benjamin C., Spokane, Wash. Lawn edger. No. 1,422,693; July 11.
Gockel, Heinrich, Neuwied-on-the-Rhine, Germany. Rolled iron bar. No. 1,422,694; July 11.
Gohmann, John B., Lincoln, Nebr. Stove and furnace. No. 1,422,195; July 11.
Goldberg, Morris, Brooklyn, N. Y. Attachment for neckscarfs. No. 1,422,758; July 11.
Goldenbaum, Frederick C., Kearny, N. J., assignor to International Printing Plate Company, Inc., New York, N. Y. Forming celluloid printing plates. No. 1,422,695; July 11.
Gomersall, John W., Manchester, England. Rubber-forcing machine. No. 1,422,561; July 11.
Goodin, George N., Macon, Ga., assignor of one-half to H. B. Grimshaw, Portsmouth, Va. Underframe and draft-arm connection. No. 1,422,562; July 11.
Gooding, Harold S., Medford, Mass. Cap. No. 1,422,435; July 11.
Goodyear, Charles H., Cedar Rapids, Iowa, assignor to Missouri Paper Products Company, St. Joseph, Mo. System of keeping notes. No. 1,422,696; July 11.
Gore, Frederick W., Huntington, N. Y. Aircraft. No. 1,422,261; July 11.
Gorgellino, Francesco, Turin, Italy. Motion device for automatons. No. 1,422,436; July 11.
Grace, Edwin B., assignor of one-half to G. Erskine, Memphis, Tenn. Wheel-securing device. No. 1,422,697; July 11.
Graham, Nelson W., Johannesburg, Transvaal, South Africa. Wrench. No. 1,422,563; July 11.
Granger, Leo A. (See Trullinger, D. N., and Granger.)
Gray, George B. M., Oakland, Calif. Gear-shift lock. No. 1,422,353; July 11.
Gray, William E., Chicago, Ill. Lemon squeezer. No. 1,422,196; July 11.
Greaves, Percy A. (See Beebe, John A., assignor.)
Greffenius, Hugo, Frankfort-on-the-Main, Germany. Ship for transporting raw products. No. 1,422,354; July 11.
Green, Henry M., Los Angeles, Calif. Pump. No. 1,422,759; July 11.
Green, Pansy F. (See Hodgson, H. W., and Green.)
Greene Aeronautical Company, The. (See Greene, Otto W., assignor.)
Greene, Otto W., assignor to The Greene Aeronautical Company, Elyria, Ohio. Airplane. No. 1,422,197; July 11.
Greenfield, David H., Denver, Colo. Ignition-point grinder. No. 1,422,097; July 11.
Greenleaf, George E., and C. F. Randolph, Plainfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y. Lathe headstock. No. 1,422,098; July 11.
Grimshaw, Harry B. (See Goodin, George N., assignor.)
Griswold Manufacturing Company, The. (See Griswold, Roger W., assignor.)
Griswold, Roger W., assignor to The Griswold Manufacturing Company, Erie, Pa. Handle. No. 1,422,355; July 11.
Grob, Armin R., Wilmington, Del., and C. C. Adams, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulphonating carbon compounds. No. 1,422,564; July 11.
Groenewegen, Gijsbertus, Delft, Netherlands. Valve for steam engines. No. 1,422,437; July 11.
Grossmann, Hans, Zurich, Switzerland. Kindling device. No. 1,422,698; July 11.
Grübler, Erhard, Borsdorf, near Leipzig, Germany. Motor tractor. No. 1,422,438; July 11.
Grunwald, Carl, Essen-Bredeney, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Cooling device for internal-combustion engines. No. 1,422,565; July 11.
Grupe, William F. (See Adamson, A. A., and Grupe.)
Gruss, Lucien E., assignor to Pneumatic Cushion Co., San Francisco, Calif. Air-spring rigging. No. 1,422,566; July 11.
Gudith, Walter. (See Hacking, John G., assignor.)
Guerin, William J., Brooklyn, N. Y. Ice-cream-dispensing machine. No. 1,422,198; July 11.
Guernsey, Ernest W., and J. Y. Yee, Washington, D. C. Producing phosphoric acid. No. 1,422,699; July 11.
Guillery, René, assignor to Société des Etablissements Malicet & Blin, Aubervilliers, Seine, France. Vehicle suspension. No. 1,422,567; July 11.
Hacking, John G., assignor of one-half to W. Gudith, Detroit, Mich. Water-power apparatus. No. 1,422,700; July 11.
Hall, C. M., Lamp Company. (See Bell, William A., assignor.)
Hall, Frank W., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Manufacture of aluminum chloride. No. 1,422,568; July 11.
Hall, Joseph, Stockport, England. Self-starting injector for steam boilers. No. 1,422,199; July 11.
Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Anode for luminous arc lamps. No. 1,422,439; July 11.
Hamel Shoe Machinery Company. (See Adams, Charles F., assignor.)
Hamel Shoe Machinery Company. (See Valois, Felix E., assignor.)
Hamilton, Alexander C., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Cushioned gear. No. 1,422,440; July 11.
Hammond, Harry F., South Shaftsbury, assignor of one-half to J. A. Davis, Dover, Vt. Soldering iron. No. 1,422,357; July 11.
Hammerschmidt, Albert E. (See Darling, Loren W., assignor.)
Hammes, John W., Racine, Wis. Floating weather strip. No. 1,422,569; July 11.
Handley Page Limited. (See Page, Frederick H., assignor.)
Hanle, Benjamin W., Roselle Park, N. J. Wrench. No. 1,422,760; July 11.
Hansen, Christ, Mink Creek, Idaho. Hammer. No. 1,422,262; July 11.
Harbord, Frank W., London, England. Roasting complex zinc sulphide ores or the like. No. 1,422,701; July 11.
Hardy, William B., and J. J. Piqué, Westminster, London, England. Apparatus for cooling and freezing of fish and the like. No. 1,422,570; July 11.
Harlow, Ivan F., assignor to The Dow Chemical Company, Midland, Mich. Extracting potassium salts from bitterns. No. 1,422,571; July 11.
Harmon, Anne, Irvington-on-the-Hudson, N. Y. Athletic skirt. No. 1,422,441. July 11.
Harris, Harry E., Bridgeport, Conn. Grinding wheel. No. 1,422,200; July 11.
Harter, Marion H., Minneapolis, Minn. Cotter-pin puller. No. 1,422,201; July 11.
Hartman, William H., Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. Hammer crusher. No. 1,422,761; July 11.
Haskel, Fred, Detroit, Mich. Two-piece pulley construction. No. 1,422,263; July 11.
Hasler, Andreas M., Randers, Denmark. Retarded electromagnetic switch. No. 1,422,702; July 11.
Hatfield, Floyd H., Rawlins, Wyo. Casing swage. No. 1,422,762; July 11.
Haugh, Thomas M., L. C. Schilling, and J. W. Finch, assignors to The Eastern Malleable Iron Company, New Britain, Conn. Automatic poker. No. 1,422,442; July 11.
Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,422,264; July 11.
Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,422,265; July 11.
Hayes & Meserole Mfg. Co. (See Meserole, Milton D., assignor.)
Head, Casimir J., London, England. Manufacture of chromic oxide and sodium sulphide from sodium chromate. No. 1,422,703; July 11.
Heeter, Charles M., Butler, Pa. Oil-well packer. No. 1,422,704; July 11.

Hellemann, Walter, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with independent sighting line. No. 1,422,099; July 11.
Helfer, Charles A., Los Angeles, Calif. Telemotor. No. 1,422,705; July 11.
Heller, Jacob E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Extruding machine. No. 1,422,356; July 11.
Helmholtz, Arthur W., Harrisburg, assignor to Continuous Process Coke Company, Chicago, Ill. Method of and means for distilling coal. No. 1,422,706; July 11.
Hemming, Carl H., New Haven, Conn. Cutlery-polishing machine. No. 1,422,358; July 11.
Hemming, Gustav F., deceased, New Haven, Conn.; T. L. Hemming, administratrix. Polishing compound for finishing table cutlery. No. 1,422,707; July 11.
Hemming, Theresa L., administratrix. (See Hemming, Gustav F.)
Henderson, Hiram L. (See Henderson, Nelson H. and H. L.)
Henderson, Nelson H. and H. L., Syracuse, N. Y. Dry kiln. No. 1,422,202; July 11.
Hieatzman, A. H., Company, The. (See Hieatzman, Arthur H., assignor.)
Hieatzman, Arthur H., Baltimore, Md., assignor to The A. H. Hieatzman Company. Gliding coaster. No. 1,422,203; July 11.
Hill, Charles E., San Bernardino, Calif. Air and water service hose locker. No. 1,422,359; July 11.
Hinckley, Frank C., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Talking machine. No. 1,422,266; July 11.
Hipp, J. C. (See Dalitz, Harry, assignor.)
Hitt, Samuel E. Elyria, Ohio, and J. I. Peyton, Chicago, Ill. Ingot mold. No. 1,422,572; July 11.
Hodgdon, Herbert W., and P. F. Green, St. Louis, Mo. Potato-peeling machine. No. 1,422,708; July 11.
Hodgson, James, Carlisle, England. Attachment for converting motor driven chassis into tractors for agricultural purposes. No. 1,422,709; July 11.
Hoff, Earl B., assignor, by mesne assignments, to Electric Vacuum Cleaner Company, Inc., East Cleveland, Ohio. Beater for suction cleaners. No. 1,422,100; July 11.
Hoffman, Paul, Easton, Pa., and F. C. Reed, Harriette, Mich., assignors to Ingersoll-Rand Company, Jersey City, N. J. Gas-booster regulator. No. 1,422,573; July 11.
Hoge, Frederick, Zoug, Switzerland. Leading-in wires for incandescent electric lamps. No. 1,422,443; July 11.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Cover for typewriter keys. No. 1,422,267; July 11.
Holcroft, Charles T., Detroit, Mich. Annealing malleable cast iron. No. 1,422,710; July 11.
Hollis, William H., Germantown, assignor of one-half to Dr. V. Pinnock-Bailey, Philadelphia, Pa. Wash-basin for automobiles. No. 1,422,763; July 11.
Holmes, Walter G., Minneapolis, Minn. Knockdown dental and surgical table. No. 1,422,101; July 11.
Holzapfel, Albert C., New York, N. Y. Paint. No. 1,422,711; July 11.
Hood, Dalaware J., Philadelphia, Pa. Talking machine. No. 1,422,712; July 11.
Hoover, Wilson W., and T. E. Brown, New York, N. Y. Working oil shales. No. 1,422,204; July 11.
Hosking, William C. S. (See McEwen, William, assignor.)
Hough, Clarence E., Bowen, Ill. Milk-bottle carrier. No. 1,422,574; July 11.
Howard, William H., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Discharging smelter gases. No. 1,422,575; July 11.
Howland, Waldo A., Adams, Mass. Controller for automatic vacuum breakers. No. 1,422,444; July 11.
Hughes, George W., West Philadelphia, Pa. Pulley adapter. No. 1,422,360; July 11.
Hulder, Joseph P., New York, N. Y., assignor to The Unit Player Action Co. Tracking device for player pianos. No. 1,422,713; July 11.
Hume, Geo. C., et al. (See Boettcher, Otto J., assignor.)
Humphreys, William, Fullerton, Pa., assignor to Wilmort Manufacturing Company, Chicago, Ill. Measuring gauge. No. 1,422,576; July 11.
Hundrieser, Hans, Halensee, near Berlin, Germany. Tubular rock drill. No. 1,422,361; July 11.
Hupfel, Adolph G., Reno, Nev., assignor to Hup Mfg. Co., Inc., New York, N. Y. Type-holding means for marking devices. No. 1,422,268; July 11.
Hup Mfg. Co. (See Hupfel, Adolph G., assignor.)
Hutchinson, Robert, Nottingham, England. Aging wheaten flour to improve its baking qualities. No. 1,422,102; July 11.
Illingworth, George C., Anniston, Ala. Reciprocating pan conveyer. No. 1,422,270; July 11.
Illingworth, Stewart R., Treforest, Wales. Coking of coal. No. 1,422,269; July 11.
Ingersoll Rand Company. (See Hoffman, P., and Reed, assignors.)
Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
Ingold, Paul A., Paris, France. Jointed artificial hand. No. 1,422,714; July 11.
International Motor Company. (See Lotz, Walter P., assignor.)
International Printing Plate Company. (See Goldenbaum, Frederick C., assignor.)
International Toy Company. (See Chapdelaine, Norbert, assignor.) (Reissue.)
Iron Horse Tractor Co., The. (See Gardiner, Lou M., assignor.)
Irsch, Jacob, New York, N. Y. Amusement ride. No. 1,422,764; July 11.
Jarry, Frederick, assignor of one-half to S. Taylor, New Bedford, Mass. Slub catcher. No. 1,422,271; July 11.
Jarry, Frederick. (See Taylor, S., and Jarry.)
Jaskowiak, Frank, St. Cloud, Minn. Bench or floor dog. No. 1,422,272; July 11.
Jasperson, John J., Randwick, near Sydney, Australia, New South Wales. Expanding reamer. No. 1,422,208; July 11.
Jaworski, Paul, Bismarckhutte, Upper Silesia. Coking chamber for generators. No. 1,422,206; July 11.
Jeammet-Leyrit, René A., Billancourt, near Paris, France. Automatically-clamping tongs for grasping plates and dishes. No. 1,422,215; July 11.
Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,422,715; July 11.
Johannes, Edward E., and R. D. Dunkerton, Devon, Kans. Disk truck. No. 1,422,362; July 11.
Johnson, Austin C., assignor to Production Meter Company, Chicago, Ill. Indicating and recording apparatus. No. 1,422,207; July 11.
Johnson, Carl E., Chanute, Kans. Battery grip. No. 1,422,765; July 11.
Johnson, David E., and T. A. Madsen, assignors to National Lock Company, Rockford, Ill. Method and apparatus for making headed machine parts. No. 1,422,274; July 11.
Johnson, Jonas, Ramsay, Mich. Pocketknife. No. 1,422,363; July 11.
Johnson, Oscar H. (See Pollard, G. T., and Johnson.)
Johns-Manville Incorporated. (See Berdan, Jacob M., assignor.)
Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,422,273; July 11.
Jones, David. (See Davies, D., and Jones.)
Jones, James H. (See Jones, Kenneth C. and J. H.)
Jones, Kenneth C., Chagrin Falls, and J. H. Jones, Cleveland Heights, Ohio. Rug-scouring machine. No. 1,422,445; July 11.
Jones, Oscar W., Cambridge City, Ind. Advertising wheel. No. 1,422,577; July 11.
Jones, Paul, Hanson, assignor to Commonwealth Shoe & Leather Company, Whitman, Mass. Shoe sole. No. 1,422,716; July 11.
Joosting, Pieter, Utrecht, Netherlands. Lift bridge. No. 1,422,717; July 11.
Jordan, Thomas E., Malden, assignor to Oliver Whyte Co., Inc., Boston, Mass. Seesaw. No. 1,422,766; July 11.
Jüst, Joseph. (See Schenkel, M., and Jüst.)
Kaplan, Louis, New York, N. Y. Rubber heel. No. 1,422,446; July 11.
Kattenberg, Carsten H., San Francisco, Calif. Cigar and cigarette ash retainer. No. 1,422,578; July 11.
Keast, Ernest, Nemaunee, Mich. Excavating and loading machine. No. 1,422,767; July 11.
Keehn, Clarence C., assignor to The Lisk Manufacturing Company, Ltd., Canandaigua, N. Y. Sustaining means for infants' bathtubs. No. 1,422,718; July 11.
K. F. & C. Tire & Rubber Corporation. (See Krusemark, Frederick A., assignor.)
Kelsay, Le Roy W., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching key. No. 1,422,447; July 11.
Kennington, William O., London, England, assignor to The Remy Electric Company. Ignition system. (Reissue.) No. 15,408; July 11.
Kenny, James N., Ottawa, Ontario, Canada. Conveyer belt. No. 1,422,208; July 11.
Kent, Earl and G., Tacoma, Wash. Dispensing device. No. 1,422,768; July 11.
Kent, Glenn. (See Kent, Earl and G.)
Kent, Robert D. (See Cameron, Hugh, assignor.)
Kent, William J., Brooklyn, N. Y., assignor to Peerless Rubber Manufacturing Company. Making rubber tiling. No. 1,422,579; July 11.
Kerr, John L. (See Barton, William L., assignor.)
Kik, Charles L., Los Angeles, Calif. Iceless refrigerator. No. 1,422,364; July 11.
Kik, Charles L., Los Angeles, Calif. Iceless refrigerator No. 1,422,365; July 11.
Kingsbury, Albert, Greenwich, Conn. Bearing. No. 1,422,448; July 11.
Kiser, Henry F., Chattanooga, Tenn. Scale. No. 1,422,104; July 11.
Kirby, James B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Suction cleaner. No. 1,422,105; July 11.
Klots, Walter J., Scranton, Pa., assignor to W. J. Klots Raw Silk Cleaner Co. Inc. Thread cleaner. No. 1,422,106; July 11.
Klots, W. J., Raw Silk Cleaner Co. (See Klots, Walter J., assignor.)
Knaus, Peter J., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus for vulcanizing articles of rubber or rubberized fabric. No. 1,422,209; July 11.
Koch, Louis O., Little Rock, Ark. Portable heater. No. 1,422,449; July 11.

Koch, Wellington A., Plainfield, N. J. Traffic signal. No. 1,422,210; July 11.
Kondolf, Mathias R., Philadelphia, Pa. Box-pressing machine. No. 1,422,580; July 11.
Kositzky, Carl R., Bismarck, N. Dak. Covered folding frame. No. 1,422,450; July 11.
Kramer, Andrew A., Kansas City, Mo. Tank construction. No. 1,422,107; July 11.
Kronenberg, Rudolf, Ohligs, Germany. Air-cooled internal-combustion engine. No. 1,422,719; July 11.
Kropf, Walter R., assignor of one-half to A. G. Siebert, San Francisco, Calif. Corner brace. No. 1,422,770; July 11.
Krusemark, Frederick A., assignor to K. F. & C. Tire & Rubber Corporation, Roanoke, Va. Making rubberized tire fabric. No. 1,422,451; July 11.
Kukac, Edward J., Chicago, Ill. Mold. No. 1,422,108; July 11.
Kunkel, Sherman T., Los Angeles, Calif. Gauge-cock-operating tool. No. 1,422,771; July 11.
Lace, Edward H., Vandergrift, Pa. Dental-plate anchorage. No. 1,422,452; July 11.
Lahey, Frank T., Akron, Ohio. Manufacturing insulating and resistant articles and products thereof. No. 1,422,720; July 11.
Lamb, Arthur B., Washington, D. C. Method and apparatus for treating gases and gaseous substances. No. 1,422,211; July 11.
Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Electrically-heated utensil. No. 1,422,721; July 11.
Lambert, Frank W., Hancock, Iowa. Propeller. No. 1,422,109; July 11.
Lane, Charles J., assignor to C. F. Elwell, London, England. Separating or sorting apparatus. No. 1,422,807; July 11.
Lane, Walter, Holland, Mich. Pneumatic piano player. No. 1,422,275; July 11.
Lane, Walter, Holland, Mich. Automatic player piano. No. 1,422,276; July 11.
Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
Landers, Frary & Clark. (See Smart, Joseph F., assignor.)
Landin, Peter J., Denver, Colo. Phonograph. No. 1,422,453; July 11.
Langland, Lammert H., Windom, Minn. Combination rolling cutter and shoe furrow opener for corn planters. No. 1,422,454; July 11.
Larner, Chester W., Cleveland, Ohio. Governor-operated pressure regulator. No. 1,422,212; July 11.
Laurency, Guillaume C., and M. Vigier, London, England. Process of and apparatus for preparing textile fibers for spinning. No. 1,422,581; July 11.
Lauterbur, Frank X., Sidney, Ohio. Safety clutch device for mixers. No. 1,422,213; July 11.
Lea, Charles, Boston, Mass., assignor, by mesne assignments, to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Weft supply and placing mechanism. No. 1,422,722; July 11.
Leblanc, Maurice C. A., Val-sur-Seine, par Croissy, assignor to Societe Anonyme Pour L'Exploitation Des Procedes Westinghouse Leblanc, Paris, France. Steam ejector. No. 1,422,582; July 11.
Lebovici, Justin, Oakley, Ohio, assignor to The Triumph Electric Company. Interlock circuit protector. No. 1,422,110; July 11.
Lebo, Robert B., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Purifying higher secondary alcohols. No. 1,422,583; July 11.
Lees-Bradner Co. (See Schurr, C. H., and Lees, assignors.) (Reissue.)
Lees, Ernest J. (See Schurr, C. H., and Lees.) (Reissue.)
Leger, Oswald C., Los Angeles, Calif. Cap shaper. No. 1,422,366; July 11.
Leggett & Platt Spring Bed Company. (See Zier, Corban H., assignor.)
Leibovitz, Moritz, Lorain, Ohio. Combination clasp and lock. No. 1,422,214; July 11.
Leisse, Frederick J., St. Louis, Mo. Automobile tire. No. 1,422,723; July 11.
Lenhoff, John A., Hockessin, Del. Attachment for awnings. No. 1,422,772; July 11.
Leon, Frank C., et al. (See Facciuto, Luigi, Sr., assignor.)
Le Pontois, Anna, administratrix. (See Le Pontois, Leon J.)
Le Pontois, Leon J., deceased, Lakewood; A. Le Pontois, administratrix, assignor to The Teagle Company, Cleveland, Ohio. Electric generator. No. 1,422,584; July 11.
Levalley, Cristopher W. (See Fraser, D., Shafer, and Levalley.)
Levalley, Helen P., et al., executors. (See Fraser, D., Shafer, and Levalley.)
Levy & Merzbach. (See Levy, Isidor J., assignor.)
Levy, Isidor J., assignor to Levy & Merzbach, New York, N. Y. Combined purse and vanity-case frame. No. 1,422,724; July 11.
Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Thrust bearing. No. 1,422,585; July 11.
Lewellen Manufacturing Company. (See Lewellen, Darcy E., assignor.)
Lewis, John V. (See Fowler, E., and Lewis.)
Liebowitz, Benjamin, New York, N. Y. Vehicle suspension. No. 1,422,586; July 11.
Liebowitz, Benjamin, New Rochelle, N. Y. Vehicle suspension. No. 1,422,587; July 11.
Light Publishing Company. (See Brelt, Martin M., assignor.)
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Child's carriage. No. 1,422,277; July 11.
Link-Belt Company. (See Schott, Joseph F., assignor.)
Lisk Manufacturing Company, The. (See Keehn, Clarence C., assignor.)
Liva, Philipp, Brooklyn, N. Y. Wire-bending machine. No. 1,422,455; July 11.
Ljungstrom, Fredrik, Brevik Lidingon, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Turbine-driven locomotive. No. 1,422,111; July 11.
Logan, Ivan B. (See Tonkin, Arthur S., assignor.)
Lord, Emory H., Washington, D. C. Measuring device. No. 1,422,112; July 11.
Lotz, Walter P., New Brunswick, N. J., assignor to International Motor Company, New York, N. Y. Boring machine. No. 1,422,456; July 11.
Low, Arthur B., Denver, Colo. Pressure gauge. No. 1,422,278; July 11.
Luetgert, Arnold C., and E. H. Melkiejohn, assignors of one-third to R. D. Brown, Seattle, Wash. Portable roadway. No. 1,422,280; July 11.
Lufkin Rule Company, The. (See Schleicher, John A., assignor.)
Lydick, John M., San Diego, Calif. Jackscrew. No. 1,422,279; July 11.
Maas, Fred W., et al. (See Boettcher, Otto J., assignor.)
McCarthy, William J., Rochelle Park, N. J. Vignetting tool. No. 1,422,773; July 11.
McClanahan, Thomas G., Seattle, Wash. Trolling lure. No. 1,422,457; July 11.
McClellan, John, assignor of one-half to D. B. Wiggins, Philadelphia, Pa. Combined spark timer and oil pump. No. 1,422,725; July 11.
McCullough, William C. (See White, O. M., and McCullough.)
McDonald, Elijah D., Los Angeles, Calif. Deep-well pump. No. 1,422,588; July 11.
McDowell, Samuel J. (See McDougal, T. G., and McDowell.)
McDougal, Taine G., and S. J. McDowell, assignors to Champion Ignition Company, Flint, Mich. Synthetic jewel bearing. No. 1,422,216; July 11.
McEwen, William, assignor of one-half to W. C. S. Hosking, Waiuku, Auckland, New Zealand. Pneumatic tire. No. 1,422,113; July 11.
McFarland, Clarence R., Marion, Ill. Undergarment. No. 1,422,281; July 11.
McGillivray, Harry, New York, N. Y. Safety device for elevators. No. 1,422,774; July 11.
McGlaudlin, Eugene G., Portland, Oreg. Heat-radiating device. No. 1,422,282; July 11.
McGovern, John W., Port Alice, British Columbia, Canada. Reversible fluid-pressure turbine. No. 1,422,458; July 11.
McKim, John F., San Jose, Calif. Hutch. No. 1,422,283; July 11.
McNab, Joseph W. (See Tobias, William L., assignor.)
McQuiston, John D., Sioux City, Iowa. Car-door lock. No. 1,422,589; July 11.
Macfarlane, James W., et al. (See Anderson, Albin E., assignor.)
MacInnes, Neil, Chicago, Ill. Automobile bumper. No. 1,422,103; July 11.
Mackenzie, James H., Sydney, New South Wales, Australia. Air-tightly sealing composition for metal containers, specially those for food. No. 1,422,114; July 11.
MacLaurin, Robert D., Toronto, Ontario, Canada. Singeing hogs. No. 1,422,217; July 11.
Mack, Rudolph A., Gallipolis, Ohio. Steering mechanism. No. 1,422,284; July 11.
Madsen, Thorvald A. (See Johnson, D. E., and Madsen.)
Mahar, George M., and P. M. M. Phelps, Fair Haven, Vt. Coffin. No. 1,422,726; July 11.
Maimin, Hyman, New York, N. Y. Motor drive for sewing machines. No. 1,422,218; July 11.
Majors, Walter L., St. Louis, Mo. Antiskid device. No. 1,422,285; July 11.
Majors, Walter L., St. Louis, Mo. Mimeograph attachment. No. 1,422,286; July 11.
Manhart, Anton, Vienna, Austria. Alloys of aluminium and producing the same. No. 1,422,591; July 11.
Manley Manufacturing Company, The. (See Manley, Robert E., assignor.)
Manley, Robert E., assignor to The Manley Manufacturing Company, York, Pa. Portable floor crane. No. 1,422,459; July 11.
Mansel, Paul, Siemensstadt, near Berlin, assignor to Siemens & Halske A. G., Berlin, Germany. Clock. No. 1,422,590; July 11.
Marchand, Edward J., Duluth, Minn. Fly exterminator. No. 1,422,287; July 11.
Marker, Van N., Chicago, Ill. Compensating starting switch. No. 1,422,592; July 11.
Marks, Paul J., Rochester, N. Y. Photographic shutter. No. 1,422,460; July 11.
Marks, Paul J., Rochester, N. Y. Iris diaphragm. No. 1,422,461; July 11.

Marlin Firearms Corporation, The. (See Swebilius, Carl G., assignor.)
Marietta Paint & Color Company, The. (See Murray, Alexander, assignor.)
Marsh, Howard E. (See Starr, E. B., and Marsh.)
Martin, Alfred V. P., Brooklyn, N. Y. Hair curler and waver. No. 1,422,593; July 11.
Martin, Rhetherford B., New York, N. Y. Composition for treating manufactured rubber. No. 1,422,115; July 11.
Martocci-Pisculli, Leon, New York, N. Y. Toy. No. 1,422,775; July 11.
Maschinenfabrik Augsburg-Nuernberg A. G. (See Becher, Theodor, assignor.)
Mathers, Samuel A., Chillicothe, Ohio. Railway truck. No. 1,422,116; July 11.
Mathews, Alexander. (See White, O. M., and McCullough, assignors.)
Matzen, Herman N., Cleveland Heights, Ohio. Pipe. No. 1,422,367; July 11.
Mauck, Victor, Norristown, Pa. Munition casing. No. 1,422,219; July 11.
Maxenchs, Hyacinth, New York, N. Y. Flexible metallic structure. No. 1,422,776; July 11.
Maxwell, Maxwell C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,594; July 11.
Maxwell, Maxwell C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder lock. No. 1,422,595; July 11.
Mehlis, Ferdinand, Berlin-Buchholz, Germany. Emergency bearing for railway cars. No. 1,422,596; July 11.
Meiklejohn, Ernest H. (See Luetgert, A. C., and Meiklejohn.)
Meinhardt, Jacob A., Chicago, Ill. Mop frame and handle coupling. No. 1,422,368; July 11.
Melloy, James H., and W. Owen, assignors to Wm. Muir and Company, Limited, Manchester, England. Gear cutting, slotting, and like machines. No. 1,422,462; July 11.
Mercen, Arno, Berkeley, Calif. Edger. No. 1,422,463; July 11.
Mergenthaler Linotype Company. (See Rousseau, Joseph L., assignor.)
Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
Merkle, Francis L., Portland, Me. Guard chain for pneumatic tires. No. 1,422,117; July 11.
Merritt, Frank W., and A. E. Watts, Duluth, Minn. Level-registering means. No. 1,422,118; July 11.
Meserole, Milton D., Milford, assignor to Hayes & Meserole Mfg. Co., New Haven, Conn. Barrette. No. 1,422,464; July 11.
Metcalfe, Robert F., Erie, Pa. Controlling device for boiler furnaces. No. 1,422,369; July 11.
Meteor Mixing Machine Co. (See Trust, Josephine and H., assignors.)
Metz, Herman A. (See Myers, Chester N., assignor.)
Meyer, August, Minneapolis, Minn., and P. R. Walsh, assignors, by mesne assignments, to Duplex Holding Company, St. Louis, Mo. Method of and apparatus for treating timber and the like. No. 1,422,119; July 11.
Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulating and control apparatus and system. No. 1,422,120; July 11.
Millen, Rudolph A., Detroit, Mich. Ratchet wrench. No. 1,422,121; July 11.
Miller, Frederick B., Scottdale, Pa. Wheel. No. 1,422,597; July 11.
Miller & Pardee, Inc. (See Pardee, Harvey S., assignor.)
Mine & Smelter Supply Company, The. (See Pollard, G. T., and Johnson, assignors.)
Misenhelmer, Lindsay W., Great Falls, S. C. Frictional bushing coupling. No. 1,422,598; July 11.
Missouri Paper Products Company. (See Goodyear, Charles H., assignor.)
Mitchell, Harry C., Yonkers, N. Y. Ornamenting device and method. No. 1,422,599; July 11.
Mitton-Braley Aero-Plane Control Co. (See Mitton, R. E., and Braley, assignors.)
Mitton, Robert E., and W. M. Braley assignors to Mitton-Braley Aero-Plane Control Co., Salt Lake City, Utah. Controlling mechanism for flying machines. No. 1,422,288; July 11.
M-L Magneto Syndicate Limited, The. (See Watson, Ernest A., assignor.)
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine for applying button stay strips. No. 1,422,220; July 11.
Mohawk Carpet Mills Inc. (See Lea, Charles, assignor.)
Molins, Walter E., London, England. Apparatus for collecting and conveying cigarettes or the like. No. 1,422,600; July 11.
Monitor Controller Company. (See Whittingham, George H., assignor.)
Moody, Joseph F., Ranger, Tex. Gripping device. No. 1,422,289; July 11.
Moore, Lellie D., Newtonville, Mass. Bucket for handling loose materials. No. 1,422,601; July 11.
Moriarty, Daniel, Oakland, Calif. Tire casing. No. 1,422,290; July 11.
Morrell, Glenn A., assignor of one-half to C. W. Rodgers, Seattle, Wash. Fireplace damper. No. 1,422,465; July 11.
Morris, Ray, Niagara Falls, N. Y. Windmill. No. 1,422,602; July 11.
Morrison, James, assignor to The Trailmobile Company, Cincinnati, Ohio. Rolling kitchen. No. 1,422,603; July 11.
Morse, John M., Syracuse, N. Y. Muffler cut-out. No. 1,422,466; July 11.
Mower, Edward B., assignor to The Futurist Company, Chicago, Ill. Undergarment. No. 1,422,604; July 11.
Muir, Wm., and Company. (See Melloy, J. H., and Owen, assignors.)
Mulherin, James A., assignor of one-third to H. D. Delkeskamp, St. Louis, Mo. Bath spray. No. 1,422,291; July 11.
Murphy, Walter P. (See Murray, George E., assignor.)
Murray, Alexander, assignor to The Marietta Paint & Color Company, Marietta, Ohio. Stain composition. No. 1,422,292; July 11.
Murray, Charles F., Evanston, Ill. Automobile lock. No. 1,422,221; July 11.
Murray, George E., Battle Creek, Mich., assignor to W. P. Murphy, Chicago, Ill. Car-coupling release rigging. No. 1,422,293; July 11.
Myers, Chester N., Valley Falls, assignor to H. A. Metz, New York, N. Y. Complex arseno-stibino compounds and making the same. No. 1,422,294; July 11.
Napolitan, Francis J., Jersey City, N. J., assignor to American Abrasive Metals Company. Plate for use in lining burglar-proof vaults and similar purposes. No. 1,422,295; July 11.
Nasmith, John I. (See Buckham, G. T., and Nasmith.)
National Aniline & Chemical Company. (See Cunningham, Orin D., assignor.)
National Fireworks Manufacturing Company, The. (See Van Doren, John B., assignor.)
National Lock Company. (See Johnson, D. E., and Madsen, assignors.)
National Pneumatic Company. (See Forman, Paris R., assignor.)
Needham, William H., assignor to Boston Pressed Metal Co., Worcester, Mass. Press-feeding mechanism. No. 1,422,605; July 11.
Nelman, Edna A., Brooklyn, N. Y. Container. No. 1,422,606; July 11.
Nelson, John, Bridgeport, Conn. Doorknob lock. No. 1,422,467; July 11.
Nelson, John A., Charleston, S. C. Fuse. No. 1,422,122; July 11.
Newton, Richard T., New York, N. Y. Bumper bracket. No. 1,422,777; July 11.
Nicola, Peter, Danville, Pa. Artificial arm. No. 1,422,468; July 11.
Niles-Bement-Pond Company. (See Greenleaf, G. E., and Randolph, assignors.)
Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
Nonnenmann, Adolf, New York, N. Y. Pin. No. 1,422,607; July 11.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,422,222; July 11.
Nord, Carl V., Seattle, Wash. Lubricating device for automobiles. No. 1,422,608; July 11.
Norgren, Gustavus, Centerville, S. D. Corn-husking machine. No. 1,422,609; July 11.
Northwest Engineering Company. (See Burke, Paul, assignor.)
O'Brien, Joseph J., Springfield, Mass. Retaining clip. No. 1,422,610; July 11.
O'Connell, William, Cincinnati, Ohio. Two-in-one rubber tire. No. 1,422,123; July 11.
Oertli, Caspar. (See Oertli, Lucy and C., and Turnell.)
Oertli, Lucy, and C., Hamilton, Mont., and H. Turnell, Elm Creek, Nebr. Automatic haystacker. No. 1,422,611; July 11.
Ogden, John B., Lynchburg, Va. Record cabinet for talking machines. No. 1,422,612; July 11.
Ogden, John B., Lynchburg, Va. Convertible stand and table. No. 1,422,613; July 11.
Ogden, J. Edward. (See Tomkinson, Charles C., assignor.)
Oliver Whyte Co. (See Jordan, Thomas E., assignor.)
Olivier, Maurice G., assignor to Societe Francaise de Crins Artificiels, Paris, France. Producing molded articles of pure cellulose. No. 1,422,469; July 11.
Opitz, William H., Fort Wayne, Ind. Dispensing tank. No. 1,422,124; July 11.
Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Inductive-interference-suppression device. No. 1,422,470; July 11.
Ottolini, Cyrill, Calistoga, Calif. Fort disappearing gun. No. 1,422,296; July 11.
Outlook Company, The. (See Williams, John H., assignor.)
Owens, Richard L., Minneapolis, Minn. Grain-feeding spreader. No. 1,422,297; July 11.
Owens, Richard L., Minneapolis, Minn. Grain separator. No. 1,422,298; July 11.
Owens, Richard L., Minneapolis, Minn. Grain separator. No. 1,422,299; July 11.
Owen, Willie. (See Melloy, J. H., and Owen.)
Pacific Fire Extinguisher Company. (See Reid, Henry C., assignor.)
Packard Motor Car Company. (See Church, Harold D., assignor.)

Packard Motor Car Company. (See Dewey, Frank H., assignor.)
Packard Motor Car Company. (See Druar, Frank J., assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Page, Edwin L., Kingsley, Iowa. Core for making ventilated blocks. No. 1,422,370; July 11.
Page, Edwin L., Kingsley, Iowa. Ventilated corncrib-floor mold. No. 1,422,371; July 11.
Page, Frederick H., assignor to Handley Page Limited, London, England. Means for balancing and regulating the lift of aircraft. No. 1,422,614; July 11.
Page, Frederick H., assignor to Handley Page Limited, London, England. Means for balancing and regulating the lift of aircraft. No. 1,422,615; July 11.
Page, Frederick H., assignor to Handley Page Limited, London, England. Means for balancing and regulating the lift of aircraft. No. 1,422,616; July 11.
Palmer, Dennis J. (See Woods, J. D., and Palmer.)
Pape, Amand, Willow Springs, Ill. Apparatus for sealing boxes. No. 1,422,300; July 11.
Pardee, Harvey S., assignor to Miller & Pardee, Inc., Chicago, Ill. Locking cap for automobile radiators. No. 1,422,372; July 11.
Parker, Calvert, Keene, N. H. Banjo structure. No. 1,422,769; July 11.
Parker, Clark, deceased, Baulkham Hills, New South Wales, Australia; E. Parker, administratrix. Post for wire fencing. No. 1,422,301; July 11.
Parker, Ethel, administratrix. (See Parker, Clark.)
Parker, Howard, assignor to Brown Company, Berlin, N. H. Pipe wrench. No. 1,422,302; July 11.
Parsley, George T., Ashland, Oreg. Combined wrench. No. 1,422,471; July 11.
Pathe Exchange Inc. (See Chanler, Gaston L., assignor.)
Pearcy, Walter T., New Albany, Ind. Silencer. No. 1,422,373; July 11.
Peerless Rubber Manufacturing Company. (See Kent, William J., assignor.)
Pehrson, Alfred K., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Release and take-up device for brakes. No. 1,422,125; July 11.
Penick & Ford, Ltd. (See Allen, Paul W., assignor.)
Pennsylvania Crusher Company. (See Hartman, William H., assignor.)
Penrod, William A., Dayton, Ohio. Cooker and boiler. No. 1,422,472; July 11.
Perony, Jean A., St.-Ouen, France, assignor to Societe d'Outillage Mecanique et d'Usinage d'Artillerie, St.-Ouen, France. Plate-bending press. No. 1,422,779; July 11.
Persichino, Michael. (See D'Andrea, Nicola, assignor.)
Petcher, Edward C., St. Louis, Mo. Atomizer. No. 1,422,778; July 11.
Petersen, Paul W., Chicago, Ill. Method and apparatus for handling combustibles. No. 1,422,126; July 11.
Petersen, Valdemar, St. Ansgar, Iowa. Wire-fence fastener. No. 1,422,127; July 11.
Peterson, S. D. (See Schumacher, H. J., and Rice, assignors.)
Peyton, Joseph I. (See Hitt, S. E., and Peyton.)
Phelps, Henry C., and J. C. Fox, Glendale, Calif. Anti-slap spring for piston rings. No. 1,422,780; July 11.
Phelps, Joseph, North Caldwell, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,422,617; July 11.
Phelps, Philip M. M. (See Mahar, G. M., and Phelps.)
Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Means for securing overhead tracks in place. No. 1,422,473; July 11.
Phillips, Joan C., Wellesley Hills, Mass. Nursing-bottle holder. No. 1,422,223; July 11.
Pickering, Orlen B., Endicott, N. Y. Stamp. No. 1,422,474; July 11.
Pickston, William T. (See Brown, W. D. R., and Pickston.)
Pinnock-Bailey, Dr. Vivian. (See Hollis, William H., assignor.)
Piqué, Jean J. (See Hardy, W. B., and Piqué.)
Pneumatic Cushion Co. (See Gruss, Lucien R., assignor.)
Pomillo, Alessandro, New York, N. Y. Bassinet. No. 1,422,619; July 11.
Pollak, Fritz, Vienna, Austria. Distilling process. No. 1,422,475; July 11.
Pollard, Gurdon T., and O. H. Johnson, assignors to The Mine & Smelter Supply Company, Denver, Colo. Drum feeder. No. 1,422,618; July 11.
Poole, Arthur F., Kenilworth, Ill. Speed indicator for aeroplanes. No. 1,422,224; July 11.
Poser, Max, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic test-lens frame. No. 1,422,303; July 11.
Powell, Archibald D., Braintree, England. Lifting jack. No. 1,422,781; July 11.
Power, Dudley F., assignor of one-third to E. P. Babcock and one-third to F. Delano, Portland, Oreg. Dehydrator or drier. No. 1,422,620; July 11.
Powers, George B., Superior, Wis. Tree holder. No. 1,422,304; July 11.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Clearance valve for compressors. No. 1,422,476; July 11.
Pressed Steel Car Company. (See Pehrson, Alfred K., assignor.)
Prevost, Arthur A., Detroit, Mich. Wrench. No. 1,422,621; July 11.
Products Protection Corporation, The. (See Smith, Franklin S., assignor.)
Production Meter Company. (See Johnson, Austin C., assignor.)
Progress Manufacturing Company. (See Stahl, Gustav H., assignor.)
Pullman, George, New York, N. Y. Time recorder. No. 1,422,477; July 11.
Radium Chemical Company. (See Cameron, William H., assignor.)
Rager, Harvey W., Ponca, Nebr. Harness hook. No. 1,422,128; July 11.
Rambo, Joseph F., Pomona, Calif., assignor of one-half to R. A. Schmitt, San Diego, Calif. Conduit coupling. No. 1,422,374; July 11.
Randolph, Clifford F. (See Greenleaf, G. E., and Randolph.)
Rattan, Carrie S., San Francisco, Calif. Garment hanger. No. 1,422,782; July 11.
Redford, John E. (See Wahlert, H. A., and Redford.)
Reed, Forrest C. (See Hoffman, P., and Reed.)
Rees, Gordon, East New Annan, Nova Scotia, Canada. Handle for blacksmiths' vises. No. 1,422,478; July 11.
Reeves, Alex, Atlanta, Ga. Door check. No. 1,422,783; July 11.
Reid, Henry C., assignor to Pacific Fire Extinguisher Company, San Francisco, Calif. Tractor. No. 1,422,375; July 11.
Remington Typewriter Company. (See Phelps, Joseph, assignor.)
Remy Electric Company, The. (See Kennington, William O., assignor.) (Reissue.)
Reuse, Joseph C., Libertyville, Ill. Traction coupling. No. 1,422,129; July 11.
Reynolds, Robert W., Darlinghurst, near Sydney, New South Wales, Australia. Electrical heater resistance element. No. 1,422,130; July 11.
Rice, Frank. (See Schumacher, H. J., and Rice.)
Richards, George M., Philadelphia, Pa. Multistage unloader. No. 1,422,376; July 11.
Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
Richter, Johannes, Niederlossnitz, near Dresden, Germany. Ribbon attachment for stringed instruments. No. 1,422,784; July 11.
Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Film-winding mechanism for cameras. No. 1,422,131; July 11.
Riddle, Robert D., Spartanburg, S. C. Undercasing for motor-vehicle engines. No. 1,422,622; July 11.
Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Strip guiding and controlling attachment for sewing machines. No. 1,422,808; July 11.
Roberts, Herbert L., assignor to Business Systems, Limited, Toronto, Ontario, Canada. Autographic register. No. 1,422,132; July 11.
Robider, William J., Westmount, Quebec, Canada. Grain car. No. 1,422,133; July 11.
Robinson, Neal M., Kansas City, Kans. Vehicle wheel. No. 1,422,479; July 11.
Robinson, Richard E., Kansas City, Mo. Automobile hood. No. 1,422,305; July 11.
Robnett, Curtiss, Columbia, Mo. Tractor cleat. No. 1,422,377; July 11.
Rodgers, Charles W. (See Morrell, Glenn A., assignor.)
Rodhe, Olof, assignor to Aktiebolaget Ingeniorsfirma Fritz Egnell, Stockholm, Sweden. Gas-analyzing apparatus. (Reissue.) No. 15,409; July 11.
Rodman, Thomas H., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. No. 1,422,134; July 11.
Rodriguez Serra, José E., Ponce, P. R. Film holder. No. 1,422,785; July 11.
Rogatz, William B., assignor to Farmers Standard Carbide Co., Plattsburg, N. Y. Manufacturing calcium carbide. No. 1,422,135; July 11.
Rogers, George L., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Shears. No. 1,422,786; July 11.
Rope, Arthur E., Brooklyn, N. Y. Combination face brush. No. 1,422,787; July 11.
Rousseau, Joseph L., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Matrix manufacture. No. 1,422,136; July 11.
Rousseau, Joseph L., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Manufacturing matrices. No. 1,422,137; July 11.
Roy, Wilfrid J. (See Thompson, W., and Roy.)
Runnels, Walter S., Kalamazoo, Mich. Radiator cover. No. 1,422,306; July 11.
Runyan, Clarence, Aurora, Ind. Comb cleaner. No. 1,422,788; July 11.
Rutherford, John E., Toronto, Ontario, Canada. Vehicle license-number holder and illuminator. No. 1,422,480; July 11.
Ryan, Michael W., and M. Uttendorfer, Seattle, Wash. Radiometer. No. 1,422,378; July 11.

Ryder, Ely M. T., Yonkers, N. Y. Welded rail joint. No. 1,422,623; July 11.
Ryon, Eppa H., Waltham, Mass. Valve mechanism for gas engines. No. 1,422,138; July 11.
Sandman, August G., Baltimore, Md. Hatch cover for refrigerator cars. No. 1,422,139; July 11.
Salto, Salvatore, Milan, Italy. Projecting device for beams of light. No. 1,422,307; July 11.
Sauer, George A., assignor to Buckeye Iron & Brass Works, Dayton, Ohio. Oil press. No. 1,422,225; July 11.
Sawyer, Frederick L. (See Berger, Christian, assignor.)
Schenkel, Moritz, and J. Jüst, Charlottenburg, near Berlin, assignors to Siemens-Schuckert-Werke, G. m. b. H., Berlin, Germany. Electric vacuum apparatus. No. 1,422,481; July 11.
Schey, Max, Brooklyn, N. Y. Heating element. No. 1,422,379; July 11.
Schilling, Le Roy C. (See Haugh, T. M., Schilling, and Finch.)
Schleicher, John A., assignor to The Lufkin Rule Company, Saginaw, Mich. Combined friction and spanner wrench. No. 1,422,308; July 11.
Schlinglof, Frank C., assignor to The Corona Manufacturing Company, Kenton, Ohio. Poultry roost. No. 1,422,624; July 11.
Schloth, Arthur C. and H. E., Lynn, Mass. Toy. No. 1,422,789; July 11.
Schloth, Herman E. (See Schloth, Arthur C. and H. E.)
Schmitt, Robert A. (See Rambo, Joseph F., assignor.)
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Tractor having four steering driving wheels. No. 1,422,380; July 11.
Schott, Joseph F., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain. No. 1,422,790; July 11.
Schriber, George F., Long Beach, Calif. Metal-sheathed pneumatic tire for vehicles. No. 1,422,791; July 11.
Schuette, August E., Red Bud, Ill., assignor to Central Manufacturing Company, St. Louis, Mo. Gearing. No. 1,422,792; July 11.
Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Device for inserting rivets. No. 1,422,381; July 11.
Schultz, Abraham J., Newark, N. J. Expansible attaching means for connecting tubular elements. No. 1,422,227; July 11.
Schultz, Abraham J., Newark, N. J., assignor to Colonial Stamping Company, Inc. Mounting naps or caps for posts, poles, or rods. No. 1,422,226; July 11.
Schultz, Adolf J., Kansas City, Mo. Batter pitcher. No. 1,422,382; July 11.
Schultz, Herman F. C. and F. W., Youngstown, Ohio. Fastening device. No. 1,422,482; July 11.
Schultz, Fred W. (See Schults, Herman F. C. and F. W.)
Schumacher, Earl E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Plastic composition. No. 1,422,483; July 11.
Schumacher, Henry J., and F. Rice, Meadville, assignor of one-third to S. D. Peterson, New Castle, Pa. Game device. No. 1,422,383; July 11.
Schurr, Charles H., and E. J. Lees, assignors to The Lees-Bradner Co., Cleveland, Ohio. Thread-milling machine. (Reissue.) No. 15,410; July 11.
Schwartz, Carl, New Rochelle, assignor to Vapor Car Heating Company, Inc., New York, N. Y. Electrical control apparatus. No. 1,422,625; July 11.
Schweinsberg, George W., and M. I. Doyle, Brooklyn, N. Y., assignors to U. S. Electrogalvanizing Company. Apparatus for cleaning articles. No. 1,422,309; July 11.
Schweitzer, Edmund O., Chicago, Ill. Means for controlling and measuring a current flowing in an alternating-current circuit. No. 1,422,484; July 11.
Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Car-wheel-boring machine. No. 1,422,140; July 11.
Self Lay Block & Machine Company. (See Emery, Harvey L., assignor.)
Shaffer, Patrick H., assignor of one-half to W. L. Thomas, Richwood, W. Va. Logging hook. No. 1,422,228; July 11.
Shafer, Samuel, Jr. (See Fraser, D., Shafer, and Levalley.)
Shank, Lewis H., Paradise, Pa. Fruit-jar holder. No. 1,422,626; July 11.
Shannon, Ellwood M., Bala, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Equalizing gear for locomotives. No. 1,422,793; July 11.
Sharp, John, Oakmont, assignor to Aluminum Seal Company, New Kensington, Pa. Feeding mechanism. No. 1,422,229; July 11.
Shaw, James, Toronto, Ontario, Canada. Phonograph. No. 1,422,310; July 11.
Shaw, John C., Pretoria, Transvaal, South Africa. Chilling and freezing animal substances. No. 1,422,627; July 11.
Shaw, John C., Pretoria, Transvaal, South Africa. Apparatus or plant for chilling and freezing animal substances. No. 1,422,628; July 11.
Sheehan, Walter H., Steubenville, Ohio. Combined headlight and direction indicator. No. 1,422,629; July 11.
Shephard, Harry, Coventry, England. Power indicator for internal-combustion engines. No. 1,422,485; July 11.
Sherwood, Carlyle J., assignor to Coen Co., San Francisco, Calif. Automatic draft regulator. No. 1,422,311; July 11.
Sherwood, Ludlow S., Chicago, Ill. Saw-filing machine. No. 1,422,486; July 11.
Shuford, Stephen W., Woodlawn, N. C. Weighing mechanism. No. 1,422,141; July 11.
Siebert, Adolph G. (See Kropf, Walter R., assignor.)
Siemens & Halske A. G. (See Mansel, Paul, assignor.)
Siemens-Schuckert-Werke G. m. b. H. (See Schenkel, M., and Jüst, assignors.)
Singer Manufacturing Company, The. (See Becker, Rudolph.)
Singer Manufacturing Company, The. (See Ringe, John C., assignor.)
Small, Thomas W., Cleveland, Ohio. Telephone attachment. No. 1,422,487; July 11.
Smart, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Handle. No. 1,422,630; July 11.
Smith, Ernest R., San Francisco, Calif. Dental impression tray. No. 1,422,488; July 11.
Smith, Franklin H. (See Doty, L. E., and Smith.)
Smith, Franklin S., Philadelphia, Pa., assignor to The Products Protection Corporation, New York, N. Y. Electric condenser. No. 1,422,312; July 11.
Smith, Frederick A., Brasted, England. Ignition device for internal-combustion engines. No. 1,422,794; July 11.
Smith, George W., Chicago, Ill. Memorandum-pad stand and pad sheets. No. 1,422,489; July 11.
Smith, Harry N., assignor to Watertown Table Slide Company, Watertown, Wis. Extension-table slide. No. 1,422,142; July 11.
Smith, Hugh B., University Place, Nebr. Folding table. No. 1,422,313; July 11.
Snadecki, William J., Bridgeport, Conn., assignor to R. Crane, Washington, D. C. Internal-combustion engine. No. 1,422,143; July 11.
Snyder, Frank B., South Altoona, Pa. Auxiliary propelling means for motor vehicles. No. 1,422,795; July 11.
Societe Anonyme de Commentry, Fourchambault & Decazeyville. (See Girin, Pierre, assignor.)
Societe Anonyme Pour L'Exploitation Des Procedes Westinghouse Leblanc. (See Leblanc, Maurice C. A., assignor.)
Societe des Etablissements Malicet & Blin. (See Guillery, René, assignor.)
Societe d'Outillage Mecanique et d'Usinage d'Artillerie. (See Perony, Jean A., assignor.)
Societe Francaise de Crins Artificiels. (See Olivier, Maurice G., assignor.)
Soule, George C., and J. B. Woodbury, South Portland, Me. Making wire-rope clamp clips. No. 1,422,314; July 11.
South, Mahlon C., assignor of one-third to C. M. Garrison, Cincinnati, Ohio. Power propulsion device. No. 1,422,384; July 11.
Sowden, Albert B., Covington, Ky. Positive both-wheel-drive differential. No. 1,422,144; July 11.
Spencer, William H., assignor to I. P. Frink, Inc., New York, N. Y. Lighting-accessory suspension. No. 1,422,796; July 11.
Spery, Charles F., Chicago, Ill. Radiator for motor vehicles. No. 1,422,315; July 11.
Spiller, Gilbert E. H., Eaglehurst, Chagford, England. Guard for circular saws. No. 1,422,316; July 11.
Springfield Metallic Casket Company, The. (See Watts, Thomas A., assignor.)
Stader, Otto, Oconomowoc, Wis. Veterinary surgical instruments. No. 1,422,490; July 11.
Stafford, Alfred E., assignor to Draper Corporation, Hopedale, Mass. Filling-end clearer for filling-replenishing looms. No. 1,422,727; July 11.
Stafford, Ion A., Jamestown, N. Y. Desk-drawer lock. No. 1,422,631; July 11.
Stahl, Gustav H., Menomonie, Wis., assignor to Progress Manufacturing Company, Erie, Pa. Tool holder. No. 1,422,491; July 11.
Stalberg, Sven, Nahant, Mass., assignor to General Electric Company. Focusing mechanism for projectors. No. 1,422,385; July 11.
Standard Conveyor Company. (See Donaldson, William T., assignor.)
Standard Oil Company. (See Lebo, Robert B., assignor.)
Standard Parts Company, The. (See Butcher, Harry E., assignor.)
Standard Parts Company, The. (See Jobski, Otto H., assignor.)
Standard Parts Company, The. (See Zimmermann, Thomas, assignor.)
Standard Steel and Bearings Incorporated. (See Woodrow, Irvin F., assignor.)
Stangler, Bertha, administratrix. (See Stangler, Joseph C.)
Stangler, Joseph C., deceased, Chicago, Ill.: B. Stangler, administratrix. Electromagnetic measuring apparatus. No. 1,422,317; July 11.
Stankovich, Bozo, San Francisco, Calif. Sieve shaker. No. 1,422,230; July 11.
Stanley, James, New York, N. Y. Combined level, plumb, square, and measure. No. 1,422,231; July 11.
Stanley, Richard E., Sr., Pittsburgh, Pa. Means for making cast bowling pins. No. 1,422,232; July 11.

Stark, John B., assignor to Webster Electric Company, Racine, Wis. Armature for magneto machines. No. 1,422,145; July 11.
Starr, Edward B., and H. E. Marsh, Lompoc, Calif. Apparatus for sawing natural deposits. No. 1,422,386; July 11.
Stay-Rite Mfg. Co. (See Brooks, Lloyd B., assignor.)
Steadworthy, Henry. (See Cooper, F. W., and Steadworthy.)
Steenburg, Walter C. (See Bonson, Walter, assignor.)
Stendel, Roy, Magdalena, N. Mex. Guard for motor cycles. No. 1,422,632; July 11.
Stern, Louis J., Boston, Mass. Package for snap fasteners. No. 1,422,233; July 11.
Sterrett, Frank O., Rochester, Nev. Counterbalance for the crank shafts of internal-combustion engines. No. 1,422,633; July 11.
Stevens, Sidney, Millinocket, Me. Automatic switch for circuits of internal-combustion engines. No. 1,422,318; July 11.
Stevens, William H., Hollidaysburg, Pa. Tool handle. No. 1,422,387; July 11.
Stickel, Frederick, Chicago, Ill. Combined valve and plug. No. 1,422,234; July 11.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Filling-end-withdrawing means for weft-replenishing looms. No. 1,422,728; July 11.
St. Joseph Iron Works. (See Eklund, John G., assignor.)
Stoll, Frank M., Denver, Colo. Folding camp chair. No. 1,422,319; July 11.
Stoll, Frank M., Denver, Colo. Portable folding bed. No. 1,422,320; July 11.
Stout, James M., Seattle, Wash. Maturity calendar. No. 1,422,235; July 11.
Stuart, Francis L., New York, N. Y. Conveyer. No. 1,422,492; July 11.
Stuart, Francis L., New York, N. Y. System of conveying and delivering material to carriers. No. 1,422,493; July 11.
Sturgis Steel Go-Cart Company. (See Lindberg, Charles A., assignor.)
Sullivan, Charles L., Chicago, Ill., and J. D. Fletcher, Evansville, Ind. Paving block. No. 1,422,193; July 11.
Sumbulian, Sarkis H., Fresno, Calif. Automobile fender. No. 1,422,388; July 11.
Summers, Leland L., Chicago, Ill. Retort. No. 1,422,634; July 11.
Sutherland, Enos E., Los Angeles, Calif. Collapsible crate. No. 1,422,797; July 11.
Swain, Hadwen, San Francisco, Calif. Automatic phonograph. No. 1,422,321; July 11.
Swain, Seth R., East Orange, N. J. Pulley. No. 1,422,389; July 11.
Swan, John, Jr., Marietta, Ohio. Underreamer. No. 1,422,236; July 11.
Swebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Firearm. No. 1,422,237; July 11.
Swebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Firearm. No. 1,422,238; July 11.
Swingle, Charles W., Chicago, Ill. Flash light. No. 1,422,239; July 11.
Symington, T. H., Company, The. (See Anderson, Gustaf A., assignor.)
Tackenberg, William, Cincinnati, Ohio. Building block. No. 1,422,146; July 11.
Tanberg, Arthur P., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Manufacturing diphenylamine. No. 1,422,404; July 11.
Taylor, Arthur O. S., Billings, Mont. Grinding mechanism. No. 1,422,635; July 11.
Taylor, Edward C., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Treating rubber articles. No. 1,422,147; July 11.
Taylor, Samuel, and F. Jarry, New Bedford, Mass. Tension device for spooling machines. No. 1,422,240; July 11.
Taylor, Samuel. (See Jarry, Frederick, assignor.)
Teagle Company, The. (See Le Pontois, Leon J., assignor.)
Texas Company, The. (See Hall, Frank W., assignor.)
Thiele, Alfred, Magdeburg, Germany, assignor to Firm of Emmy Thiele, Berlin, Germany. Repairing patch for pneumatic tires. No. 1,422,495; July 11.
Thiele, Firm of Emmy. (See Thiele, Alfred, assignor.)
Thomas, Walter, Nanaimo, British Columbia, Canada. Distilling carbonaceous material. No. 1,422,496; July 11.
Thomas, Wellington L. (See Shaffer, Patrick H., assignor.)
Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can-discharge device. No. 1,422,798; July 11.
Thompson, Frank E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,497; July 11.
Thompson, William, and W. J. Roy, Springfield, Mass., assignors to Consolidated Tool Works, Inc., New York, N. Y. Drive for drills and similar tools. No. 1,422,322; July 11.
Timm, Otto F., Wilson Creek, Wash. Bushing inserter or remover. No. 1,422,390; July 11.
Tisch, George C. L., Elizabeth, N. J. Combination plate and thread guide. No. 1,422,799; July 11.
Tobias, William L., assignor to J. W. McNab, Toronto, Ontario, Canada. Steering wheel. No. 1,422,323; July 11.
Tomlinson, Charles H., assignor, by mesne assignments, to The Tomlinson Coupler Company, Mansfield, Ohio. Electric multiple connection plug. No. 1,422,241; July 11.
Tomlinson Coupler Company, The. (See Tomlinson, Charles H., assignor.)
Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountainville, Cornwall, N. Y. Concrete insert. No. 1,422,636; July 11.
Tonkin, Arthur S., Lyndhurst Road, Hastings, assignor of one-half to I. B. Logan, Napier, New Zealand. Paper fastener. No. 1,422,148; July 11.
Trailmobile Company, The. (See Morrison, James, assignor.)
Trimble, E. M., Manufacturing Company. (See Baxter, William C., assignor.)
Troeger, John F. B., assignor, by mesne assignments, to American Lux Products Corporation, New York, N. Y. Screen for motion pictures. No. 1,422,149; July 11.
Triumph Electric Company, The. (See Lebovici, Justin, assignor.)
Trullinger, Daniel N., and L. A. Granger, Fresno, Calif. Apparatus for forming concrete pipes. No. 1,422,150; July 11.
Trust, Henry. (See Trust, Josephine and H.)
Trust, Josephine and H., Park Ridge, N. J., assignors, by mesne assignments, to Meteor Mixing Machine Co., Inc. Ford machine. No. 1,422,391; July 11.
Tucker Brothers Manufacturing Company. (See Tucker, Jesse D., assignor.)
Tucker, Jesse D., assignor to Tucker Brothers Manufacturing Company, Sacramento, Calif. Spoke-tightening shim. No. 1,422,637; July 11.
Turnell, Henry. (See Oertli, Lucy and C., and Turnell.)
Ungar, Gustav A., Pelham Manor, N. Y. Flexible coupling. No. 1,422,638; July 11.
Union Carbide Company. (See Curme, George O., Jr., assignor.)
Union Special Machine Compahy. (See Chalman, John E., assignor.)
Union Special Machine Company. (See Moffatt, James E., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
Unit Player Action Co., The. (See Hulder, Joseph P., assignor.)
U. S. Electrogalvanizing Company. (See Schweinsberg, G. W., and Doyle, assignors.)
Uttendorfer, Michael. (See Ryan, M. W., and Uttendorfer.)
Valls, Ricardo C., Barcelona, Spain. Method to render kapok and other fibers incombustible. No. 1,422,242; July 11.
Valois, Felix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Stop motion for shoe-sewing machines. No. 1,422,639; July 11.
Valois, Felix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Stop motion. No. 1,422,640; July 11.
Van Cott, Albert, and J. Evans, Salt Lake City, Utah. Sorting machine. No. 1,422,800; July 11.
Vander Horst, Henry L. (See Billingham, Milton C. J., assignor.)
Van Doren, John B., Rockland, assignor to The National Fireworks Manufacturing Company, West Hanover, Mass. Toy machine gun. No. 1,422,392; July 11.
Van Norden, Rudolph W., San Francisco, Calif. Electromagnetic power-transmission apparatus. No. 1,422,243; July 11.
Vapor Car Heating Company. (See Cooley, Roswell P., assignor.)
Vapor Car Heating Company. (See Schwartz, Carl, assignor.)
Verner, Eyvind M., et al. (See Anderson, Albin E., assignor.)
Vickers Limited. (See Buckham, G. T., and Nasmith, assignors.)
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vigier, Marcel. (See Laurency, G. C., and Vigier.)
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Vibration damper for hydrocarbon motors. No. 1,422,324; July 11.
Vint, William J., Stockton, Calif. Camping trailer. No. 1,422,498; July 11.
Waddell, John M., Alexandria, La. Dimmer. No. 1,422,393; July 11.
Wagner, Rudolf, Hamburg, Germany. Suspended high-speed railway. No. 1,422,394; July 11.
Wahlert, Henry A., St. Louis, and J. E. Redford, Kinlock Park, assignors to The American Brake Company, St. Louis, Mo. Automatic slack adjuster. No. 1,422,499; July 11.
Waldorf Paper Products Company. (See Gamm, Charles C., assignor.)
Walker, Alan C. (See Bilger, W. A., and Walker.)
Walker Brothers (Wigan) Limited. (See Walker, Edwin R., assignor.)
Walker, Edwin R., assignor to Walker Brothers (Wigan) Limited, Wigan, England. Motor tip wagon. No. 1,422,500; July 11.
Walker, Henry B., Lancaster, Ohio. Chain attachment for elevator buckets. No. 1,422,151; July 11.

Walsh, Edward M., Monroe, Wash. Stamp receiver. No. 1,422,152; July 11.
Walsh, Philip R. (See Meyer, A., and Walsh.)
Walters, Charles A., Marion, Iowa. Drafting instrument. No. 1,422,641; July 11.
Walters, Elizabeth M., Hove, England. Rubber globe. No. 1,422,642; July 11.
Wappler Electric Co. (See Wappler, Reinhold H., assignor.)
Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Co., Inc. Multidisk electric machine. No. 1,422,396; July 11.
Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Company, Inc. Clamp mounting for electrodes. No. 1,422,306; July 11.
Ward, Edward K. and P. C., St. Paul, Minn. Street sweeper. No. 1,422,501; July 11.
Ward, Pier C. (See Ward, Edward K. and P. C.)
Wardell, Robert D., Detroit, Mich. Lighting unit. No. 1,422,244; July 11.
Wark, William J., Salem, Ohio. Sign and its support. No. 1,422,502; July 11.
Warminski, Piotr, Baltimore, Md. Aeroplane control. No. 1,422,503; July 11.
Warren, Herbert A., Woburn, Mass. Truss pad. No. 1,422,153; July 11.
Warriner Manufacturing Company. (See Elrod, Milton, assignor.)
Waterhouse, Harold D., Quincy, assignor to Bay State Pump Company, Boston, Mass. Piston. No. 1,422,729; July 11.
Watertown Table Slide Company. (See Smith, H. N., assignor.)
Watson, Ernest A., assignor to The M-L Magneto Syndicate Limited, Coventry, England. Dynamo-electric machine. No. 1,422,154; July 11.
Watson, James, Athens, Pa. Smoker's table. No. 1,422,397; July 11.
Watts, Alfred E. (See Merritt, F. W., and Watts.)
Watts, Thomas A., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Latch. No. 1,422,504; July 11.
Weaver, Floyd C., Washington, D. C. Grinding and lapping machine. No. 1,422,505; July 11.
Webster Electric Company. (See Stark, John R., assignor.)
Weiss, Morris L., Brooklyn, N. Y., assignor to Dovan Chemical Corporation, Wilmington, Del. Making diphenylguanidine. No. 1,422,506; July 11.
Wells, Harold D., Glens Falls, N. Y. Sulphur-burning apparatus. No. 1,422,801; July 11.
Wells, John, Cairo, Egypt. Gas producer. No. 1,422,643; July 11.
Wentz, Jere L., Passaic, N. J. Conveying belt. No. 1,422,398; July 11.
Wepplo, Isaac W., Chicago, Ill. Tube-closing machine. No. 1,422,644; July 11.
West, Timothy E., Oakland, Calif. Parcel-post and express chart. No. 1,422,245; July 11.
Western Electric Company. (See Eaves, Augustus J., assignor.)
Western Electric Company. (See Kelsay, Le Roy W., assignor.)
Western Electric Company. (See Schumacher, Earl E., assignor.)
Wetherholt, William C., Columbus, Ohio. Key-duplicating machine. No. 1,422,155; July 11.
Wever, Beulah L., Savannah, Ga. Cooking utensil. No. No. 1,422,156; July 11.
Wheeler, William I., Scottville, Ill. Power-transmission mechanism. No. 1,422,507; July 11.
Wheeler, William I., Scottville, Ill. Reversing mechanism. No. 1,422,508; July 11.
Wheeler, William I., Scottville, Ill. Power-transmission mechanism. No. 1,422,509; July 11.
Wheeler, William I., Scottville, Ill. Transmission mechanism. No. 1,422,510; July 11.
Wheelock, Arthur C., Oakland, assignor to American Automatic Lock and Lift Company, San Francisco, Calif. Sash locking and balancing mechanism. No. 1,422,399; July 11.
Whitaker-Glessner Company. (See Gibbons, Nathan A., assignor.)
Whitcomb, Frederick L., Clyde, Ohio. Can opener. No. 1,422,400; July 11.
White, Edward L., Brooklyn, N. Y. Spring heel. No. 1,422,511; July 11.
White, John W., Detroit, Mich. Differential driving mechanism for motor vehicles. No. 1,422,401; July 11.
White, John W., Jr., Oakland, Calif. Bronze worm-gear mounting. No. 1,422,512; July 11.
White, Okey M., and W. C. McCullough, assignors of one-third to A. Mathews, Muskogee, Okla. Wrench. No. 1,422,402; July 11.
White, William E., Chicago, Ill. Bar-spacing device. No. 1,422,157; July 11.
Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Muffler. No. 1,422,403; July 11.
Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Thermal cut-out device. No. 1,422,802; July 11.
Wiggins, Dallas B. (See McClellan, John, assignor.)
Williams, Earl J., Geary, Okla. Splicing tool. No. 1,422,803; July 11.
Williams, John H., East Cleveland, Ohio, assignor to The Outlook Company, Cleveland, Ohio. Means for connecting two elements. No. 1,422,158; July 11.
Williams, William A. (See Coxon, S., and Williams.)
Wilmort Manufacturing Company. (See Humphreys, William, assignor.)
Wilson, James O., Jersey City, N. J. Permutation lock. No. 1,422,645; July 11.
Wingers, Harry A. (See Blanton, John B., assignor.)
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Washer-placing apparatus. No. 1,422,159; July 11.
Winters, George D., Sanger, Calif. Antiskid device. No. 1,422,646; July 11.
Wisconsin Trust Company et al., executors. (See Fraser, D., Shafer, and Levalley.)
Wise, Wilbert G., Akron, Ohio. Furnace construction. No. 1,422,160; July 11.
Witte, Walter L., Escondido, Calif. Rope tightener. No. 1,422,804; July 11.
Wochna, Matthew J. (See Cullen, B. P., and Wochna.)
Woodbury, John B. (See Soule, G. C., and Woodbury.)
Wood, Evans, Tuttle, Idaho. Water tank. No. 1,422,325; July 11.
Wood, Montraville M., Berwyn, Ill. Portable truck. No. 1,422,730; July 11.
Woodrow, Irvin F., Philadelphia, Pa., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Gauge. No. 1,422,161; July 11.
Woods, John D., and D. J. Palmer, Steubenville, Ohio. Gig. No. 1,422,805; July 11.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Yale & Towne Manufacturing Company, The. (See Augenbraun, Peter F., assignor.)
Yale & Towne Manufacturing Company, The. (See Maxwell, Maxwell C., assignor.)
Yale & Towne Manufacturing Company, The. (See Thompson, Frank E., assignor.)
Yee, Jew Y. (See Guernsey, E. W., and Yee.)
Zahn, Oswald F., assignor to Zahn Self Righting Roller Bearing Company, Los Angeles, Calif. Roller bearing. No. 1,422,162; July 11.
Zahn Self Righting Roller Bearing Company. (See Zahn, Oswald F., assignor.)
Zepka, Ludwig R., Cleveland, Ohio. Theft signal for motor vehicles. No. 1,422,404; July 11.
Zller, Corban H., assignor of one-half to Leggett & Platt Spring Bed Company, Limited, Windsor, Ontario, Canada. Machine for assembling frame and spring members. No. 1,422,326; July 11.
Zimbelmann, Peter, Aurora, Ill. Door check. No. 1,422,163; July 11.
Zimmerman, Thomas, assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,422,647; July 11.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

American Fabrics Company, The. (See Page, Samuel H., assignor.)
Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)
Blanck & Company. (See Davis, Elizabeth A., assignor.)
Blanck & Company. (See Langenegger, John, assignor.)
Brock and Company. (See Ginder, Wallace G., assignor.)
Bunde & Upmeyer Co. (See Katke, Thomas C., assignor.)
Cabalka, Albina, Geddes, S. Dak. Dress fabric. No. 61,186; July 11.
Cheney Talking Machine Company. (See MacLachlan, Lachlan, assignor.)
Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Plate for wall brackets for lighting fixtures. No. 61,188; July 11.
Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Wall bracket for lighting fixtures. No. 61,187; July 11.
Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 61,189; July 11.
Dowling, William, assignor to Golding Bros. Company, New York, N. Y. Fabric. No. 61,190; July 11.
Dyer, Charles B., Indianapolis, Ind. Emblem, badge, brooch, pin, cuff button, watch fob, or article of similar nature. No. 61,191; July 11.
Emsley, Amos. (See Trustman, Solomon, assignor.)
Fesler, Douglas F., Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Grease gun. No. 61,192; July 11.
Forman Bassett Company, The. (See Kres, Charles, assignor.)
Forman Bassett Company, The. (See Meyer, Frank, assignor.)
Gaffney, Richard M., St. Louis, Mo. Combined writing pad and advertising device or article of similar nature. No. 61,193; July 11.
Ginder, Wallace G., assignor to Brock and Company, Los Angeles, Calif. Ring. No. 61,194; July 11.
Golding Bros. Company. (See Dowling, William, assignor.)
Hammond, William P., Maplewood, N. J. Combination mirrorscope, parking light, and direction indicator. No. 61,195; July 11.
Johnstone, Claude, St. Louis, Mo. Bottle. No. 61,196; July 11.
Katke, Thomas C., assignor to Bunde & Upmeyer Co., Milwaukee, Wis. Badge, button, charm, emblem, pin, or article of similar nature. No. 61,197; July 11.
Kerby, Isabella, East Helena, Mont. Pig doll. No. 61,198; July 11.
Kres, Charles, Cleveland, Ohio, assignor to The Forman Bassett Company. Safety paper. No. 61,199; July 11.
Langenegger, John, assignor to Blanck & Company, New York, N. Y. Lace. No. 61,200; July 11.
Levine, Louis, Brooklyn, N. Y. Lighting-fixture arm. No. 61,201; July 11.
Lightoller Company. (See Dahl, Thure, assignor.)
London, Louis B., New York, N. Y. Globe for lighting fixtures. No. 61,202; July 11.
MacLachlan, Lachlan, Grand Rapids, Mich., assignor to Cheney Talking Machine Company, Chicago, Ill. Phonograph cabinet. No. 61,203; July 11.
Mann, William L., New York, N. Y. Badge, pin, button, or a similar article of manufacture. No. 61,204; July 11.
Meyer, Frank, Lakewood, Ohio, assignor to The Forman Bassett Company. Safety paper. No. 61,205; July 11.
Milligan, W. A., and Company. (See Riexinger, Gustav, assignor.)
National Automobile Dealers' Association. (See Vane, Christy A., assignor.)
Norquist, Angeline, Minneapolis, Minn. Doll. No. 61,206; July 11.
Oliver, Cora O., Oklahoma, Okla. Doll. No. 61,207; July 11.
Ornstein, David, New York, N. Y. Finger ring. No. 61,208; July 11.
Otte, Otho M., Tarentum, Pa. Light diffuser. Nos. 61,209-10; July 11.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. No. 61,211; July 11.
Powell, Katharine L., Amherst, Mass. Outer garment. No. 61,212; July 11.
Riexinger, Gustav, assignor to W. A. Milligan and Company, Limited, Toronto, Ontario, Canada. Sautoir watch holder. No. 61,213; July 11.
Shenk, Abraham H., Joliet, Ill. Toy. No. 61,214; July 11.
Taylor, Henry H., Milwaukee, Wis. Parking light. No. 61,215; July 11.
Trustman, Solomon, assignor of one-half to A. Emsley, Detroit, Mich. Combined phonograph and lamp stand. No. 61,216; July 11.
Urbanek, Joseph, Chicago, Ill. Combination clock, picture, and mirror frame. No. 61,217; July 11.
Vane, Christy A., assignor to National Automobile Dealers' Association, St. Louis, Mo. Emblem, sign, badge, button, or article of similar nature. No. 61,218; July 11.
Whipple, Harry W., Kansas City, Mo. Plaque. No. 61,219; July 11.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abel Bros. & Co., New York, N. Y. Certain jewelry. No. 156,606; July 11.
Acme Shear Company, The Bridgeport, Conn. Scissors and shears. No. 156,605; July 11.
Ainsworth, George R., New York, N. Y. Electric-lighting fixtures. No. 156,607; July 11.
American Cotton Oil Company, The, Union Township, Hudson County, N. J., and New York, N. Y. Edible vegetable cottonseed oils. No. 156,608; July 11.
American Hoist & Derrick Co., St. Paul, Minn. Rope clamps. No. 156,609; July 11.
American Lady Corset Co., Detroit, Mich. Corsets. No. 156,793; July 11.
American Laundry Machinery Company, The, Norwood, Ohio. Certain laundry appliances and machines. No. 156,610; July 11.
American Radio Sales and Service Company, Mansfield, Ohio. Certain appliances for radio mechanism. No. 156,611; July 11.
American Steel Foundries, Chicago, Ill. Machinery wheels and gears. No. 156,612; July 11.
American Writing Paper Company, Holyoke, Mass. Wedding paper, announcement cards, and mailing envelopes. No. 156,794; July 11.
Anderson Company, The, South Bend, Ind. Ignition timers for explosion engines. No. 156,613; July 11.
Anderson, E. S., Company, Gloversville, N. Y. Vegetable slicers and choppers. No. 156,614; July 11.
Andrea, Frank A. D., New York, N. Y. Certain radio apparatus. No. 156,615; July 11.
Associated Cement Manufacturing Limited, The. (See Burham, Brick, Lime and Cement Company, assignor.)
Atlas Tinware Company, Inc., New York, N. Y. Household washboilers. No. 156,616; July 11.
Autoquip Mfg. Co., Inc., Rochester, N. Y. Tire pumps and valve grinders. No. 156,617; July 11.
Baker, H. J., & Bro., New York, N. Y. Canned fruit and salmon and sardines. No. 156,618; July 11.
Bauman, Max, trading as M. Bauman & Company, New York, N. Y. Finger rings. No. 156,619; July 11.
Beacon Chocolate Company, Boston, Mass. Chocolate, cocoa, and chocolate candy, and other candies. No. 156,620; July 11.
Beaver Mach. & Tool Co., Inc., Newark, N. J. Electrical attachment, and switch plugs. No. 156,621; July 11.
Belch, Paul F., Company, Bloomington, Ill. Candy and caramels. No. 156,622; July 11.
Berg Bros. Mfg. Company, Chicago, Ill. Spark timers for internal-combustion engines. No. 156,623; July 11.
Bianchini, Férier, Lyons, France. Piece goods of silk, wool, linen, cotton, and china grass. No. 156,795; July 11.
Blasdel Products Co. (See Shapleigh, Blasdel.)
Bloom, Edward Co. Inc., The, New London, Conn., and Paterson, N. J. Silk piece goods. No. 156,798; July 11.
Blue Bird Malt Co., Baltimore, Md. Malt extract. No. 156,625; July 11.
Blumenthal, Sidney, & Co., New York, N. Y., assignor to Central Union Trust Company of New York, trustee. Pile fabric in the piece. No. 156,626; July 11.
Boake, A., Roberts and Company, Ltd. (See Boake, A., Roberts & Co., assignor.)
Boake, A., Roberts & Co., London, England, assignor to A. Boake, Roberts and Company, Ltd. Preservative for beer. No. 21,782; renewed Sept. 27, 1922.
Bock-Lewis Co., The, Buffalo, N. Y. Finger rings. No. 156,628; July 11.
Bodman, Ralph H., Hyannis, Mass. Artificial pearls and necklaces made from same. No. 156,629; July 11.
Boissonnault, G., Company, New York, N. Y. Telephonic apparatus. Nos. 156,630–1; July 11.
Botelho, Francis M., trading as Francis M. Botelho Co., Philadelphia, Pa. Pearls, necklaces, and clasps. No. 156,632; July 11.
Bragno & Mustari, Chicago, Ill. Tomato sauce, canned olives, cotton-seed salad oil. No. 156,633; July 11.
Bragno & Mustari, Chicago, Ill. Macaroni. No. 156,634; July 11.
Brown Bag Filling Machine Company, Fitchburg, Mass. Spark plugs. No. 156,635; July 11.
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Phonographs and phonograph records. No. 156,636; July 11.
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Rubber or rubber and fabric tires and tubes for vehicles. No. 156,827; July 11.
Buckeye Iron and Brass Works, Dayton, Ohio. Oil-mill machinery. No. 156,637; July 11.
Buonocore, C., & Son, New York, N. Y. Olive oil. No. 156,638; July 11.
Burham Brick, Lime and Cement Company, The, Burham and London, England, assignor to The Associated Cement Manufacturing Limited. Cement. No. 20,950; renewed Apr. 5, 1922.
Burlingame Manufacturing Company. (See Burlingame, Roderick S.)
Burlingame, Roderick S., trading as Burlingame Manufacturing Company, Syracuse, N. Y. Clothes-washing machine. No. 156,639; July 11.
Butler, J. W., Paper Company, Chicago, Ill. Bond paper for printing, lithographing, pen and ink, etc. No. 156,796; July 11.
Caulk, L. D., Company, The, Milford, Del. Dental supplies and appliances. No. 156,640; July 11.
Central Union Trust Company of New York, trustee. (See Blumenthal, Sidney, & Co. Inc., assignor.)
Champion Machinery Co., Joliet, Ill. Machinery for bakeries. No. 156,641; July 11.
Chicago Timer Factory Incorporated, Chicago, Ill. Timers for internal-combustion engines. Nos. 156,642–3; July 11.
Clark, Cadle, Harmon Corp., Rochester, N. Y. Laundry washing machines and wringers. No. 156,644; July 11.
Clark-Turner Piston Company, Los Angeles, Calif. Pistons for internal-combustion engines. No. 156,645; July 11.
Clements Mfg. Co., Chicago, Ill. Electric suction sweepers. No. 156,646; July 11.
Climax Rubber Co., The, Columbus, Ohio. Automobile tires of rubber and of rubberized fabric, inner tubes, liners, and patches. No. 156,647; July 11.
Coffield Washer Co., The, Dayton, Ohio. Laundry washing machines and clothes wringers. No. 156,648; July 11.
Cohen & Ettenson, New York, N. Y. Hosiery, knitted and woven underwear, sweaters, overshirts. No. 156,649; July 11.
Construction Machinery Company, Waterloo, Iowa. Concrete mixers, diaphragm pumps, hoists, backfillers, engines. No. 156,650; July 11.
Conway, Carle C., Earle E. Conway, and Theodore P. Brown, trustees, trading as Hallet & Davis Piano Co., Boston, Mass. Pianos. No. 156,651; July 11.
Crabtree, J. A., & Co. Ltd., Birmingham, England. Certain electrical apparatus. No. 156,652; July 11.
Curtiss Candy Co., Chicago, Ill. Bar containing a fudge body covered first by marshmallow and then icing. No. 156,653; July 11.
Dayton Ignition Company, The, Dayton, Ohio. Spark plugs. No. 156,654; July 11.
Dayton Pump & Manufacturing Company, The. Certain named electrical apparatus. No. 156,797; July 11.
Deere & Company, Moline, Ill., assignor to Deere & Company. Plows. No. 20,974; renewed Apr. 12, 1922.
De Klyn Candy Co., The, Cleveland, Ohio. Chocolate-coated candies packed in individual cartons. No. 156,655; July 11.
Detroit Washing Machine Corporation, Detroit, Mich. Laundry washing machines. No. 156,656; July 11.
Diamond Holfast Company, Atlanta, Ga. Electric insulating tape. No. 156,657; July 11.
Dolby, L. R., Co., Spokane, Wash. Tailored suits. No. 156,658; July 11.
Dorr Company, The, New York, N. Y. Pumps for rotating screens for removing solids from industrial and municipal waste. No. 156,659; July 11.
Economy Food Products Company, Cambridge, Mass. Dried egg, meringue powder, pie filling. No. 156,660; July 11.
Edison, Thomas A., Incorporated, West Orange, N. J. Phonographs. Nos. 156,661–2; July 11.
Electric Outlet Company, Inc., New York, N. Y. Wall and ceiling plates and connections for electric-lighting fixtures, etc. No. 156,663; July 11.
Electrical Engineers Equipment Company, Chicago, Ill. Disconnecting switches, lightning arresters, choke coils. No. 156,664; July 11.
Elite Chocolate Coated Baseball Company. (See Elite Confectionery Co., assignor.)
Elite Confectionery Co., assignor to Elite Chocolate Coated Baseball Company, El Paso, Tex. Ice cream. No. 156,665; July 11.
Emerson Phonograph Company, Inc., New York, N. Y. Phonograph records. No. 156,666; July 11.
Everett, Edward A., trading as Railroad Accessories Corporation, Long Island City, N. Y. Lightning arresters. No. 156,667; July 11.
Fairbanks Co., The, New York, N. Y. Steel and stencil pattern outfits, bevels, calipers, etc. No. 156,668; July 11.
Federal Gauge Company, The, Chicago, Ill. Certain circuit-controlling and pressure-controlling devices and mercury tubes. No. 156,669; July 11.
Finn, John, Jr. Internally-salted nuts. No. 156,670; July 11.
Firth, John, & Co., Inc., New York, N. Y. Certain electrical apparatus. No. 156,671; July 11.
Fischer, J. & C., New York, N. Y. Phonographs. No. 156,672; July 11.

Forest City Bit & Tool Co., Rockford, Ill. Augers, drills, chisels, bits, etc. No. 156,673; July 11.
Fox Motor Car Company, Philadelphia, Pa. Internal-combustion engines. No. 156,674; July 11.
Fruchter, Alton. (See Racille, Roslyn, assignor.)
Furman, Louis M., Brooklyn, N. Y. Trousers, overcoats, and suits for men and boys. No. 156,799; July 11.
Goldsmith, Stern and Co., New York, N. Y. Cigar cutters. No. 156,675; July 11.
Grant, W. T., Company, New York, N. Y. Candy. No. 156,676; July 11.
Graves, Isabel, Philadelphia, Pa., and Newton, Mass. Jellies, fruit preserves, conserves, and canned fruits. Nos. 156,677–8; July 11.
Greenbaum Bros. Inc., Seaford, Del. Tomato catsup, chili sauce, and canned pork and beans. No. 156,679; July 11.
Grossman, J., & Co. Inc., New York, N. Y. Cotton piece goods. No. 156,800; July 11.
Grumbacher, Max, New York, N. Y. Artists' brushes. Nos. 156,801–3; July 11.
Hager, Albert R., Salt Lake City, Utah. Game (played with pieces similar to dominoes). No. 156,680; July 11.
Hallet & Davis Piano Co. (See Conway, Carle C., et al., trustees.)
Harraden, Cora L., Schenectady, N. Y. Candy. No. 156,681; July 11.
Hatmaker & Place, Canaan, Conn. Hydrated lime, Portland cement, and fire clay. No. 156,683; July 11.
Hemco Electric Manufacturing Company Inc., New York, N. Y. Electric fixtures. Nos. 156,684–5; July 11.
Hendler Creamery Company, The, Baltimore, Md. Ice cream. Nos. 156,686–7; July 11.
Hershey Chocolate Company, The, Hershey, Pa. Chocolate, sweet chocolate, and milk chocolate. No. 156,688; July 11.
Ideal Coated Paper Company, Brookfield, Mass. Gummed paper. No. 156,804; July 11.
Indiana Lamp Company, Connersville, Ind. Electric vehicle lamps. No. 156,689; July 11.
Iowa Malleable Iron Company, Fairfield, Iowa. Malleable-iron castings. No. 156,690; July 11.
Jackson & Gutman Company, Salisbury, Md. Negligee shirts. No. 156,805; July 11.
Jackson Company, The, Dubuque, Iowa. Prepared mustard, peanut butter, vinegar. No. 156,691; July 11.
Jewel Tea Company, Inc., Chicago, Ill. Coffee. No. 156,692; July 11.
Jewett Manufacturing Corporation, Newark, N. J. Apparatus for radiosignaling. No. 156,693; July 11.
Johnson, William C., Rhode Island. Mercerized shoe laces. No. 156,694; July 11.
Katz & Ogush, Inc., New York, N. Y. Certain named jewelry. No. 156,695; July 11.
Kienzle Uhrenfabriken Kommanditgesellschaft, Schwenningen-on-Neckar, Germany. Alarm clocks, alarm watches, and watches. No. 156,696; July 11.
Kil-Nock Company. (See Rose, John F., assignor.)
Kohn-Fechheimer Co., The, Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 156,806; July 11.
Landers, Frary & Clark, New Britain, Conn. Laundry washing machines. No. 156,697; July 11.
Larson, Clifford M., Chicago, Ill. Liquid gauges, etc. No. 156,698; July 11.
Lauerman Bros. Co. Inc., Marinette, Wis. Knitting worsted. No. 156,807; July 11.
Licorice Products Company, Dubuque, Iowa. Candy. No. 156,699; July 11.
Lincoln Light Corporation, Grafton, Wis. Electric-power-generating units. No. 156,700; July 11.
Linton & Scott, New York, N. Y. Toilet paper. No. 156,748; July 11.
Luden, William H., Reading, Pa. Candies and chocolates. No. 156,701; July 11.
Lund, Florence E., Chicago, Ill. Corsets and brassières. No. 156,702; July 11.
Lyon & Healy, Chicago, Ill. Talking machines and music boxes. No. 156,703; July 11.
McCreery, James, & Company, New York, N. Y. Silk and satin piece goods. No. 156,808; July 11.
Master Electric Company, The, Dayton, Ohio. Electric motors and parts thereof, short circuiters, etc. No. 156,704; July 11.
Merkle-Korff Gear Co., Chicago, Ill. Gears. No. 156,705; July 11.
Metropolitan-Vickers Electrical Company Ltd., London, England. Certain electrical apparatus. No. 156,706; July 11.
Mettler, E. C., Co., Menno, S. Dak. Vapor-mixing devices for internal-combustion engines. No. 156,707; July 11.
Millen Candy Co., Inc., Utica, N. Y. Cocoanut candy. No. 156,708; July 11.
Millers Falls Company, Millers Falls, Mass. Certain tools and machinery. No. 156,709; July 11.
Milwaukee Electric Crane & Mfg. Co. Inc., West Allis, Wis. Electric cranes. No. 156,710; July 11.
Miniature Breaker Co. Inc., Long Island City, N. Y. Starting switches and circuit interrupters. No. 156,711; July 11.
MI-O-MI Inc., New York, N. Y. Canned cherries, crushed pineapple, honey, etc. No. 156,712; July 11.
Mission Bead Company, Los Angeles, Calif. Bead necklaces. No. 156,713; July 11.
Modern Light Supply Company. (See Rabinovitz, Joseph.)
Monaghan, Victor Company, Greenville, S. C. Cotton piece goods. No. 156,822; July 11.
Morrow, Walter E., Lancaster, Pa. Talking-machine needles. No. 156,714; July 11.
Mushet, W. E., San Francisco, Calif. Fire brick, furnace and baffle tiles, high-temperature cement. Nos. 156,715–6; July 11.
National Commodities Co., Philadelphia, Pa. Sanitary human-hair nets. No. 156,717; July 11.
National Knitting Machine Co. Inc., St. Johnsville, N. Y. Warp-knitting machines. No. 156,718; July 11.
Nevin, W. C., Candy Co., The, Denver, Colo. Candies. No. 156,719; July 11.
New England Glass Works, Providence, R. I. Imitation pearls. No. 156,720; July 11.
Nutrine Mfg. Co., Chicago, Ill., Chocolate-coated marshmallow and caramel bar candy. No. 156,721; July 11.
Omnigraph Company, Des Moines, Iowa. Printing machines and parts of same, paper-cutting machines, etc. No. 156,722; July 11.
Osram G. m. b. H. Kommanditgesellschaft, Berlin, Germany. Electric gas-filled lamps. No. 156,723; July 11.
Osram G. m. b. H. Kommanditgesellschaft, Berlin, Germany. Electric incandescent lamps and their parts. No. 156,724; July 11.
Ovington Bros. Company, New York, N. Y. Jewelry. No. 156,826; July 11.
Oyler, Chas. C., & Son, Cincinnati, Ohio. Citrus fruits. No. 156,725; July 11.
Pace Phonograph Corporation, New York, N. Y. Phonographs, phonograph records, player and manual pianos, organs, and player rolls. No. 156,726; July 11.
Page, Wilson K., Olean, N. Y. Trolley guards. No. 156,727; July 11.
Parts Service Company, The, Cleveland, Ohio. Automotive parts. No. 156,728; July 11.
Patrick-Young Co., Richmond, Va. Hams, bacon, and lard. No. 156,729; July 11.
Pendleton Woolen Mills, Pendleton, Oreg. Indian blankets, wool in piece for making bath robes, blankets, and shawls, etc. No. 156,730; July 11.
Place, Rosalie M., Washington, D. C. Gift record books. No. 156,731; July 11.
Plate, Ernst W., Philadelphia, Pa. Stringed musical instruments and the parts thereof. No. 156,732; July 11.
Plaza Music Company, New York, N. Y. Phonograph records. No. 156,733; July 11.
Powell Corporation, The, Canandaigua, N. Y. Vinegar. No. 156,734; July 11.
Printator, G. m. b. H., Berlin, Germany. Printing machines and parts thereof. No. 156,735; July 11.
Procter and Gamble Company, The, Cincinnati, Ohio. Cooking fats. No. 156,736; July 11.
Propp, M., Co., The, New York, N. Y. Electric sockets. No. 156,737; July 11.
Pugh, Burton H., Topeka, Kans. Windshield sunshades. No. 156,809; July 11.
Pulver Company Inc., Rochester, N. Y. Chewing gum. No. 156,738; July 11.
Purcell Company, The, Kansas City, Mo. Stock weaners. No. 156,739; July 11.
Rabinovitz, Joseph, trading as Modern Light Supply Company, Philadelphia, Pa. Electrical lighting fixtures and supplies. No. 156,740; July 11.
Racille, Roslyn, New York, N. Y., assignor to A. Fruchter. Ladies' hats. No. 156,810; July 11.
Railroad Accessories Corporation. (See Everett, Edward A.)
Rainbow Shirt Corporation, New York, N. Y. Dress and negligee shirts. No. 156,741; July 11.
Reddaway, F., & Co., Manchester, England, and New York, N. Y., assignor to Rossendale-Reddaway Belting & Hose Company. Woven machine belting. No. 21,346; renewed June 21, 1922.
Remer-Dell Products Corporation, The, Columbia, S. C. Beverages and sirups for making same. No. 156,682; July 11.
Robbins, Gamwell & Company, Pittsfield, Mass. Electric pipe machines. No. 156,742; July 11.
Rogers Construction Company, Gloucester City, N. J. Certain toys. No. 156,743; July 11.
Roggen Bros. & Co., New York, N. Y. Dress and negligee shirts. No. 156,811; July 11.
Rose, John F., Davenport, Iowa, assignor to Kil-Nock Company, Inc. Automatic adjusters for bearings for automobiles and other machinery. No. 156,744; July 11.
Rosenfield, Simon D., Philadelphia, Pa. Sole-leather cut stock strips. No. 156,816; July 11.
Rossendale-Reddaway Belting & Hose Company. (See Reddaway, F., & Co., assignor.)
S. & S. Shirt Company, The, Phillipburg, Pa. Overalls. No. 156,814; July 11.
Schiller, Lou J., New York, N. Y. Ready-made hat linings. No. 156,812; July 11.
Schmukler, S., & Son, Philadelphia, Pa. Certain electrical apparatus. No. 156,745; July 11.
Schoellkopf Co., The, Dallas, Tex. Harness, saddles, bridles, etc. No. 156,746; July 11.
Schwob, Adolphe, Inc., New York, N. Y. Watches and watch movements, dials, and cases. No. 156,747; July 11.
Scowcroft, John, & Sons Company, Ogden, Utah. Coffee, food-flavoring extract, tea. No. 156,749; July 11.

Scully, D. B., Syrup Company, Chicago, Ill. Molasses. No. 156,750; July 11.
Security Certificate Company, Los Angeles, Calif. Title and identification certificate. No. 156,751; July 11.
Seiger, M., & Son, New York, N. Y. Finger rings. No. 156,752; July 11.
Seltzer, Harry J., Reading, Pa. Hosiery, underwear, wristlets, necktles, sweaters, etc. No. 156,818; July 11.
Shapiro, S., Company Inc., Syracuse and New York, N. Y. Young men's and boys' double-seated trousers. No. 156,815; July 11.
Shapleigh, Blasdel, trading as Blasdel Products Co., St. Louis, Mo. Electric spark energizer. No. 156,624; July 11
Shelby Supply and Manufacturing Company, The, Cleveland, Ohio. Chewing gum. No. 156,753; July 11.
Silurium Manufacturing Company, The, Cleveland, Ohio. Battery boxes. No. 156,754; July 11.
Simmons Hardward Company, St. Louis, Mo. Storage batteries. No. 156,755; July 11.
Societe Generale de Contellerie & Orfevrerie, Paris, France. Articles of cutlery. Nos. 156,756–7; July 11.
Sonora, Inc., New York, N. Y. Talking machines, phonographs, and music boxes. No. 156,817; July 11.
Spector & Son Piano Co., Inc., The, New York, N. Y. Grand and upright pianos, player pianos, and electrically-operated pianos. No. 156,758; July 11.
Stacy, Eugene C., Tiffin, Ohio. Load binders. No. 156,759; July 11.
Stem, John D., Asbury Park, N. J. Candies and confections. No. 156,760; July 11.
Sterolectric Company, The, Muncie, Ind. Electric stoves. No. 156,763; July 11.
St. Louis Coffee & Spice Mills, St. Louis, Mo. Coffee. No. 156,764; July 11.
Stolzer, Harry, New York, N. Y. Writing inks. No. 156,761; July 11.
Strong, Hewat & Co. Inc., North Adams, Mass., and New York, N. Y. Woolen piece goods. No. 156,818; July 11.
Sturtevant, B. F., Company, Boston, Mass. Centrifugal fans. No. 156,762; July 11.
Sunny Line Appliances, Inc., Detroit, Mich. Laundry washing machines. No. 156,765; July 11.
Theodore Bros. Chocolate Co., St. Louis, Mo. Chocolate candy. No. 156,766; July 11.
Thompson & Company, Tampa, Fla. Cigars, smoking tobacco, and cigarettes. No. 156,819; July 11.
Trinity Grocery Co., Dallas, Tex. Vinegars, salad dressing, honey, coffee, etc. No. 156,767; July 11.
Type-Adder Mfg. Corp., New York, N. Y. Adding machines and adding-machine attachments. No. 156,768; July 11.
Uncas Manufacturing Co., Providence, R. I. Finger rings. No. 156,769; July 11.
United Auto Electric Service, Inc., Newark, N. J. Storage batteries. No. 156,770; July 11.
United Knitting Works Company (Limited), The, Aarburg, Switzerland. Knit underwear. No. 23,105; renewed Dec. 6, 1922.
Utility Manufacturing Company, Inc., Goldsboro, N. C. Built-up packing cases. No. 156,820; July 11.
Van Dyk and Reeves, assignor to Van Dyk and Reeves, Inc., Brooklyn, N. Y. Fresh dates. No. 156,771; July 11.
Venus Manufacturing Company, Minneapolis, Minn. Shirts with reversible cuffs. No. 156,821; July 11.
Virden Packing Company, Oakland, Calif. Canned fruits and vegetables. No. 156,772; July 11.
Virden Packing Company, Oakland, Calif. Canned fruits and canned vegetables. No. 156,773; July 11.
Volt, William, Co., New York, N. Y. Strings for violins and similar musical instruments. No. 156,787; July 11.
Voltax Company, The, Bridgeport, Conn. Ready-mixed paints and paint enamels. No. 156,774; July 11.
Wahl Company, The, Chicago, Ill. Fountain pens and parts thereof. No. 156,823; July 11.
Wallace & Tiernan Co., Inc., Newark, N. J. Chemical-control equipment for water purification, chlorine-control apparatus, and certain other apparatus. No. 156,775; July 11.
Waters & Waters Mfg. Co., St. Louis, Mo. Typewriter ribbons, carbon paper, and certain inks. No. 156,824; July 11.
Waters, William A., Company, Newark, N. J. Jewelry for personal wear. No. 156,776; July 11.
Watson, Seth W., Saginaw, Mich. Candies. No. 156,777; July 11.
Weideman Company, The, Cleveland, Ohio. Cigars, cigarettes, smoking, chewing, and plug tobacco. No. 156,778; July 11.
Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, conserves. No. 156,779; July 11.
Weppner-Weil Company, Cleveland, Ohio. Coffee. No. 156,780; July 11.
West Point Manufacturing Company, Langdale, Ala. Crash, towels, and toweling. No. 156,825; July 11.
Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Certain radio mechanism. No. 156,781; July 11.
Weyman, H. A., & Sons, Inc., Philadelphia, Pa. Finished strings for stringed musical instruments. No. 156,782; July 11.
White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper. No. 156,783; July 11.
Whittle, D. L., Music Company, Dallas, Tex. Certain musical instruments and supplies. No. 156,784; July 11.
Widney Company, The, Chicago, Ill. Piano trapwork, wire, and pedals. No. 156,785; July 11.
Wightman & Hough Company, Providence, R. I. Belt, shoe, and clothing buckles made of precious metal or imitation precious metal. No. 156,786; July 11.
Worthington Pump and Machinery Corporation, New York, N. Y. Liquid, piston, disk, turbine, and boiler-feed meters, disk counters. No. 156,788; July 11.
Worthington Pump and Machinery Corporation, New York, N. Y. Liquid, piston, weight, etc., meters, disk counters. No. 156,789; July 11.
Worthington Pump and Machinery Corporation, New York, N. Y. Battery and electric lighting plants, switchboards. No. 156,790; July 11.
Yard-O-Meter Corporation, St. Louis, Mo. Computing machines. No. 156,791; July 11.
Yellow Jacket Manufacturing Company, Portland and Anderson, Ind. Explosive engines. No. 156,792; July 11.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Albers Bros. Milling Co., Seattle, Wash. "Hygeno." (For a Whole-Wheat Flour.) No. 24,694; July 11.
Beckwith Co., The, Reedley, Calif. "Beckwith." (For Fancy Kadota Figs.) No. 24,695; July 11.
Charleston Drug Mfg. Co., Charleston, S. C. "Lightnin'." (For an Insecticide.) No. 24,696; July 11.
Dutton, Llewellyn B., San Jose, Calif. "Double Eagle." (For Fresh Pears.) No. 24,697; July 11.
Hochschild Corporation, Chicago, Ill. "De Luxe Tu-Tone." (For Powder Puffs.) No. 24,698; July 11.
Hochschild Corporation, Chicago, Ill. "'Best-Ever' Sponge Ball." (For a Rubber Ball with Rubber Sponge Center.) No. 24,699; July 11.
Huening, Theodore J., Burlington, Wis. "Flor De Anson." (For Cigars, Cigarettes, and Tobacco.) No. 24,700; July 11.
Kehlor Flour Mill's Co., St. Louis, Mo. "Kelcomeal." (For a Food.) No. 24,701; July 11.
Loewi, Hugo V., Inc. (See Ray, A. J., & Son, Inc.)
Macleay Estate Co., The, Portland, Oreg. "Crown." (For Salmon.) No. 24,702; July 11.
Macleay Estate Co., The, Portland, Oreg. "Royal." (For Salmon.) No. 24,703; July 11.
Marshel, Blaine M., New Albany, Ind. "Marshel's Blue Fountain Pen Ink." (For Packages of Blue Ink.) No. 24,704; July 11.
Oertel Co. Incorporated, The, Louisville, Ky. "Real-Lager." (For a Cereal Beverage.) No. 24,705; July 11.
Primalt Products Co., Chicago, Ill. "Prima." (For Barley Malt Extract.) No. 24,706; July 11.
Primalt Products Co., Chicago, Ill. "Prima." (For Ginger Ale.) No. 24,707; July 11.
Ray, A. J., & Son, Inc., doing business as Hugo V. Loewi Inc., Portland, Oreg. "Bates." (For Hops.) No. 24,708; July 11.
Ray, A. J., & Son, Inc., doing business as Hugo V. Laewi Inc., Portland, Oreg. "Mt. Hood." (For Hops.) No. 24,709; July 11.
20th Century Tire Protector Co., Midlothian, Tex. "Grizzly Grip." (For White Rubber Patch.) No. 24,710; July 11.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Mulconroy Company, Inc., Philadelphia, Pa. "Hose Mulconroy." (For Advertising Purposes for Hose for Conveying Steam, Water, Air, Oil, Gas, Gasoline, Chemicals, Paint, Sand, etc.) No. 6,209; July 11.

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ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abell, Walter, El Campo, Tex. Medicinal preparation for treatment of loin disease in cattle. No. 159,547; July 11.
Ada Importing Co., Inc., The, Niagara Falls, N. Y. Olive oil and alimentary paste. No. 156,347; July 11.
Allen and Clay, Detroit, Mich. External medicines for use in the treatment of rheumatism, neuralgia, etc. No. 160,784; July 11.
Ambassador Tire Corporation, New York, N. Y. Pneumatic rubber vehicle tires. No. 164,200; July 11.
American Stove Company, St. Louis, Mo. Gas stoves and heaters. No. 163,959; July 11.
Anheuser-Busch, Incorporated, St. Louis, Mo. Maltless carbonated coffee beverage sold as a soft drink. No. 150,211; July 11.
Ansbacher & Van Baalen, New York, N. Y. Hosiery. No. 153,121; July 11.
Antitartar Chemical Company, Denver, Colo. Dentifrices and gum and tooth remedies. No. 157,790; July 11.
Ashtabula Bow Socket Company, The, Ashtabula, Ohio. Bow sockets for vehicle tops and fittings therefor. No. 146,286; July 11.
Atwood Machine Company, The, Stonington, Conn. Spinning frames. No. 158,553; July 11.
Atwood Machine Company, The, Stonington, Conn. Combination doubling and twisting frames. No. 158,554; July 11.
Atwood Machine Company, The, Stonington, Conn. Doubling frames. No. 158,555; July 11.
Atwood Machine Company, The, Stonington, Conn. Silk-reeling frames. No. 158,557; July 11.
Auerbach Bath Robe Co., The. (See Auerbach, Morris.)
Auerbach, Morris, doing business as The Auerbach Bath Robe Co., New York, N. Y. Bath robes, Pullman and beach robes, and house robes. No. 158,031; July 11.
Badger Manufacturing Corporation, Milwaukee, Wis. Bumpers. No. 163,774; July 11.
Basso, Salvatora, Chicago, Ill. Hair tonic. No. 156,517; July 11.
Bay State Thread Works, Springfield, Mass. Cotton threads. No. 150,131; July 11.
Bayer Company, Inc., The, New York, N. Y. Preparation or medicine for pains and aches of nervous or organic origin and for rheumatic, neuralgic, and gouty conditions, etc. Nos. 160,921–3; July 11.
Beacon Manufacturing Company, Providence, R. I. Blankets, comfortables, traveling rugs, baby bags, etc. No. 141,753; July 11.
Ben-Ben Shop, Chicago, Ill. Women's hats and furs. No. 156,773; July 11.
Bettes & Ebsen, New York, N. Y. Brake lining. No. 163,775; July 11.
Binney & Smith Company, East Orange, N. J., and New York, N. Y. Modeling clay. No. 159,138; July 11.
Blakey's Boot Protectors Limited, Leeds, England. Boot polish. Nos. 158,413–14; July 11.
Boot and Shoe Recorder Publishing Company, Boston, Mass. Shoe and leather trade monthly periodical. No. 159,686; July 11.
Boot and Shoe Recorder Publishing Company, Boston, Mass. Shoe and leather trade weekly periodical. No. 159,786; July 11.
Booth Mills, Lowell, Mass. Scrim in the piece. No. 145,873; July 11.
Bordeaux & New York Trading Co., doing business as Etablissements Dorsay, New York, N. Y. Sardines. No. 157,882; July 11.
Campbell, Chester I., Boston, Mass. Magazine published monthly. No. 156,681; July 11.
Caravel Company Inc., New York, N. Y. Ice and roller skates, baseballs, bats, mitts, golf balls, etc. No. 134,112; July 11.
Christopher, Arthur B., doing busines as The Tel-Auto-Spark Company, St. Louis, Mo. Electrical circuit tester. No. 157,138; July 11.
Cincinnati House Shoe & Iron Co., Cleves, Ohio. Automobile springs. No. 163,671; July 11.
Clinton Chemical Company, Irvington, N. J. Gasoline intensifier. No. 158,857; July 11.
Collierville Bat and Dimension Stock Company, The, Collierville, Tenn. Baseball bats. No. 162,381; July 11.
Comer Manufacturing Company, The, Dayton, Ohio. Raincoats, cravenettes, gabardines, bath robes, and ladies' skirts. No. 153,239; July 11.
Commerce Fruit Company, Eustis, Fla. Fresh oranges, grapefruits, and tomatoes. No. 155,014; July 11.
Commercial Lime Company, Ocala, Fla. Hydrated and quick lime. No. 162,533; July 11.
Dairymen's League Co-operative Association, Inc., Utica, N. Y. Butter, condensed and evaporated milk, and ice cream. No. 161,529; July 11.
Davis, Louisiana M., Glencoe, Ill. Dolls and toy figures. No. 159,201; July 11.
Diederich, Marcellus, doing business as Standard Products Company, Lorain, Ohio. Insecticide. No. 159,567; July 11.
Dunhill, Alfred, of London, Inc., New York, N. Y. Cigars, little cigars, cigarettes, and smoking tobacco. Nos. 163,037–8; July 11.
Dunlop Tire and Rubber Corp. of America, Buffalo, N. Y. Golf balls. No. 156,153; July 11.
Dunn-Pen Company Inc., New York, N. Y. Fountain pens. No. 157,215; July 11.
Durabilt Steel Locker Co., Aurora, Ill. Steel lockers, wardrobes, and filing cabinets, and steel shelving. No. 159,250; July 11.
Eckert, E. H., Los Angeles, Calif. Meat and bone scraps for use as poultry feed. No. 155,052; July 11.
Erlanger, N., Blumgart & Co. Inc., New York, N. Y. Cotton textiles in the piece. Nos. 161,723–4; July 11.
Esmond Mills, The, New York, N. Y. Blankets, blanket fabrics, cotton piece goods, ribbons, robes, etc. No. 155,673; July 11.
Etablissements Dorsay. (See Bordeaux & New York Trading Co.)
Flexume Sign Company, Buffalo, N. Y. Electrically-illuminated signs. No. 132,736; July 11.
Fox River Paper Company, Appleton, Wis. Writing paper. Nos. 136,263–5; July 11.
Frank, A. B., Company, San Antonio, Tex. Outer clothing for men and boys. No. 155,957; July 11.
Friedman, Ike K., Fort Worth, Tex. Oranges. No. 155,604; July 11.
Glass Container Association of America, New York, N. Y. Monthly publication. No. 162,336; July 11.
Goldaber, M., & Co., New York, N. Y. Human-hair nets. No. 143,491; July 11.
Gottlieb, Samuel, New York, N. Y. Push cards. No. 162,108; July 11.
Governform Corporation, The, New York, N. Y. Belts, belting, and elastic. No. 155,682; July 11.
Graceline Knitting Company, Linfield, Pa. Ladies' knitted underwear. No. 156,326; July 11.
Grennan Cake Corporation, Cleveland, Ohio; Detroit, Mich.; St. Paul and Minneapolis, Minn., and Chicago, Ill. Cakes, cookies, and fried cakes. No. 154,587; July 11.
Grone & Co., St. Louis, Mo. Beverages, more specifically soda water. No. 129,545; July 11.
Gustafson, Jennie C., Seattle, Wash. Liniment for the treatment of rheumatism. No. 158,231; July 11.
Guy, John C., Company Incorporated, The, Lexington, Ky. Cigars. No. 144,023; July 11.
Haartz, John C., Boston, Mass. Guernsey cows. No. 157,568; July 11.
Hay, Clarence C., Como, Miss. Hair dressing. No. 117,377; July 11.
Helmholz Mitten Company, Cudahy, Wis. Gloves and mittens. No. 155,020; July 11.
Herbicide Chemical Laboratories, Los Angeles, Calif. Spray for trees, plants, shrubs, and the like. No. 160,666; July 11.
Herndon, Marvin, Washington, D. C. Remedy for indigestion and dyspepsia. No. 158,312; July 11.
Hess, John E., Clearfield, Pa. Periodical magazine published monthly. No. 158,710; July 11.
Hill, R. D., Company, Los Angeles, Calif. Medicated shampoo liquid compositions, balsams, and ointments for eczema. No. 160,811; July 11.
Holbert & Holbert, doing business as Holbert Syrup Co., Manhattan, Kans. Sirup made from pure sugar cane flavored with maple flavoring. No. 152,423; July 11.
Horn, W. O., & Brother, Inc., New York, N. Y. Cravats. No. 157,422; July 11.
Hornsey, John W., Jamaica Plain, Boston, Mass. Hair restorers. No. 159,655; July 11.
Hornung, Mathilda G., West New York, N. Y. Salve for the treatment of itching diseases, sores, burns, etc. No. 160,762; July 11.
Individual Tailoring Company, Cincinnati, Ohio. Men's and young men's clothing. No. 151,948; July 11.
Jennings & Company, Inc., Boston, Mass. Dyestuffs. No. 159,586; July 11.
Johns Manville Incorporated, New York, N. Y. Piston and piston-rod packing. No. 164,445; July 11.
Jolie, Inc., New York, N. Y. Face, talcum, and sachet powders, face creams, rouges, etc. Nos. 160,944–5; July 11.
Jones & Baker, New York, N. Y. Publication published weekly. No. 162,742; July 11.
Jordan, H. I., Auburn, Me. Golf clubs. No. 163,583; July 11.
Kemp, C. M., Manufacturing Co., The, Baltimore, Md. Gas apparatus and gas burners. No. 131,334; July 11.
Keystone Flour Co., Incorporated, Philadelphia, Pa. Wheat flour. No. 154,984; July 11.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Kitchen, George L., doing business as Hemolene Chemical Co., St. Louis, Mo. Tooth paste and mouth washes. No. 160,888; July 11.
Klein, Emanuel, New York, N. Y. Pure-fat salad oil and cooking oil. No. 154,083; July 11.
Kravitz, Rebecca, Vineland, N. J. Washing fluid. No. 161,195; July 11.
Kurtzinger, Pearl, doing business as L & P Soap Company, Detroit, Mich. Soap. No. 151,918; July 11.
L & P Soap Company. (See Kurtzinger, Pearl.)
Landman, Robin, Milwaukee, Wis. Cigars. No. 159,270; July 11.
Langley & Michaels Co., San Francisco, Calif. Antiseptic and germicidal solution. No. 159,710; July 11.
Lehmann, O. E., & Co., New York, N. Y. Ring springs. No. 161,688; July 11.
Leslie, Eugene H., doing business as Motors Efficiency Co., Ann Arbor, Mich. Chemical preparation. No. 158,720; July 11.
Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation for the treatment of rheumatism, etc. No. 159,211; July 11.
Litt, Arthur, & Co., New York, N. Y. Men's suits, trousers, and overcoats. No. 151,763; July 11.
Loeb, Joseph, Company, The, Cincinnati, Ohio. Women's, misses', and children's hats. No. 155,971; July 11.
Lubbers & Bell Mfg. Co., Clinton, Iowa. Solitaire game. No. 162,882; July 11.
McCabe, George J., doing business as McCabe Drug Co., Nekoma, N. Dak. Medicines for external use for the treatment of coughs, colds, etc. No. 153,888; July 11.
McComb, James B., Scarsdale, N. Y. Liquid food-flavoring extracts. No. 154,318; July 11.
Macy, R. H., & Co. Inc., New York, N. Y. Apron. No. 148,290; July 11.
Maggioni, L. P., & Co., Savannah, Ga. Oysters. No. 156,399; July 11.
Mandel Brothers, Chicago, Ill. Dresses and aprons. No. 156,538; July 11.
Manhattan Rubber Mfg. Co., The, Passaic, N. J. Brake lining. No. 160,891; July 11.
Mappin & Webb Limited, Sheffield and London, England. Tableware. No. 159,473; July 11.
Marshall-Wells Company, Duluth, Minn. Shovels and scoops. No. 141,318; July 11.
Mawer-Gulden-Annis Inc., Brooklyn, N. Y. Food products. No. 157,039; July 11.
May Bros. Co., Fremont, Nebr. Canned fruits and vegetables, rolled oats, olives, etc. No. 154,883; July 11.
May, Lawrence C., doing business as Lawrence C. May Co., New York, N. Y. Finger rings. No. 158,882; July 11.
Merrow Machine Company, The, Hartford, Conn. Loopers for overseaming and overedging sewing machines. No. 158,629; July 11.
Mi Candy Company, New York, N. Y. Sugar-toasted peanuts. No. 155,201; July 11.
Migel, J. A., Inc., New York, N. Y. Ladies' and misses' silk shirt waists, suits, etc., men's and boys' neckties, pyjamas, blouses, etc. No. 153,677; July 11.
Millar, Geo, V., Co., Scranton, Pa. China, earthenware, pottery, stoneware, porcelain ware, etc. No. 162,940; July 11.
Millman, Abe, Inc., New York, N. Y. Outer garment for females. No. 153,742; July 11.
Moline Plow Company, Moline, Ill. Agricultural machinery. No. 158,628; July 11.
Moran, William F., Philadelphia, Pa. Men's clothing. No. 157,000; July 11.
Mosquera, Leoncio, doing business as Wall Street Tobacco Company, New York, N. Y. Cigarettes. No. 158,685; July 11.
Motors Efficiency Co. (See Leslie, Eugene H.)
Mott & Wood Co., Wisconsin Rapids, Wis. Butter. No. 153,308; July 11.
Murphy, Mark J., Chicago, Ill. Malt extract. No. 147,359; July 11.
Naamloose Vennootschap tot Exploitatie van Cacao en Chocoladefabricken Maatschappij. A. Driessen, Rotterdam, Netherlands. Chocolate, cocoa, cacao. No. 155,415; July 11.
National Pyro-Zene Company, Atlanta, Ga. Treatment of pyorrhea and for the promotion and maintenance of tooth, gum, and mouth health, etc. No. 160,960; July 11.
Naumann, Charles T., doing business as Broadway Perfume Company, New York, N. Y. Toilet water, scalp rub, hair tonic, etc. No. 160,717; July 11.
Neidich, Jacob S., doing business as Neidich Storage Battery Co., Yonkers, N. Y. Storage batteries. No. 158,054; July 11.
Neidich Storage Battery Co. (See Neidich, Jacob S.)
New England Confectionery Company, Boston, Mass. Candy. No. 154,837; July 11.
North East Electric Company, Rochester, N. Y. Tachometers and odometers. No. 161,640; July 11.
Nunnally Company, The, Atlanta, Ga. Candy. No. 153,255; July 11.
Overhauser, Joseph H., Portland, Oreg. Candy. No. 150,927; July 11.
Owl Drug Company, The, San Francisco, Calif. Alkaline antiseptic solution for use in oral and nasal passages. No. 160,964; July 11.
Owl Drug Company, The, San Francisco, Calif. Antiseptic astringent vaginal suppositories. No. 160,967; July 11.
Packard Engineering Co., The, Cleveland, Ohio. Shock absorbers and radiator shutters. No. 155,363; July 11.
Parke, Davis & Company, Detroit, Mich. Medicine for venereal diseases and catarrh of the mucous membrane. No. 160,249; July 11.
Paton, Calvert & Co. Limited, Liverpool, England. Blacking in liquid or paste form, patent-leather polish, metal polish, etc. No. 146,387; July 11.
Perkins-Campbell Company, The, Cincinnati, Ohio. Equestrian equipments, notably saddles, bridles, bits, etc. No. 144,148; July 11.
Picon & Cie., Marseille, France. Medicinal bitter wine. No. 158,251; July 11.
Pieper, O. R., Co., Milwaukee, Wis. Fruit beverage sold as a soft drink and sirups used in preparation of the same. No. 164,259; July 11.
Pittsburgh-Florida Fruit Growers Assoc., Avon Park, Fla. Citrus fruits in their natural state. No. 156,019; July 11.
Plax Company, The, New York, N. Y. Laxative tablets. No. 159,527; July 11.
Pleasant, Robert L., doing business as Nakoma Laboratories, New York, N. Y. Ointment for treatment of eczema and ulcers. No. 160,969; July 11.
Pocock Manufacturing Company Limited, The, Hamilton, Ontario, Canada. Cork stair treads. No. 146,844; July 11.
Pohlman, A. W., Paper Co., Inc., New York, N. Y. Bond paper for writing and printing purposes. Nos. 163,469–70; July 11.
Porter Bros., Philadelphia, Pa. Beverages sold as soft drinks and sirups for making the same. No. 162,888; July 11.
Primalt Products Co., Chicago, Ill. Beverages sold as soft drinks and sirups used in preparation of same. No. 164,949; July 11.
Pureline Company, Inc., New York, N. Y. Petroleum jelly, camphor ice, camphorated oil, cold cream, etc. No. 158,005; July 11.
Putt-Putt Co., The, Chicago, Ill. Indoor golf game. No. 161,199; July 11.
Racine Rubber Company, Racine, Wis. Rubber or rubber and fabric tires for vehicles. No. 158,951; July 11.
Reid, Murdoch & Co., Chicago, Ill. Root beer and ginger ale. No. 164,269; July 11.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, and pants. No. 156,714; July 11.
Rosenfeld, E., & Company, Baltimore, Md. Night robes and sleeping garments. No. 158,146; July 11.
Ryan, Lillian G., New York, N. Y. Cold cream. No. 156,752; July 11.
Saltrates, Limited, London, England. Bath salts. No. 160,723; July 11.
Samson, Edgar, doing business as Dyatome Laboratories, New York, N. Y. Preparation for coloring and tinting fabrics and the like. No. 160,837; July 11.
Sawyer, H. M., & Son, East Cambridge, Mass. Knitted coats, jackets, and vests for men, women, and children. No. 157,447; July 11.
Scherer, Burnell & Scherer, Inc., New York, N. Y. Laundry blue or bluing. No. 129,573; July 11.
Schmidt, Charles E., trading as Coulter Mfg. Co., Philadelphia, Pa. Shoe holders. Nos. 158,339–40; July 11.
Sexton, John, and Company, Chicago, Ill. Crushed fruits, fruit sirups, flavoring extracts, colors, etc. No. 153,112; July 11.
Sheboygan Coaster & Wagon Works, Sheboygan, Wis. Children's coaster wagons. No. 162,273; July 11.
Simplo Füllfeder-Gesellschaft Voss, Lausen & Dziambor. Fountain pens. No. 163,292; July 11.
Standard Refrigerator Company, Philadelphia, Pa. Refrigerators. No. 160,369; July 11.
Stanislawski, Joseph, Hammond, Ind. Healing oil for rheumatism, swelling, boils, etc. No. 158,999; July 11.
Stix, Baer & Fuller Dry Goods Co., St. Louis, Mo. Necklaces. No. 162,071; July 11.
Straus Mfg. Co., Erie, Pa. Pants. No. 150,937; July 11.
Swartz, Thomas J. (See Thomas Textile Company, assignor.)
System Machine Works, Stockton, Calif. Circulating pumps. No. 158,731; July 11.
Tel-Auto-Spark Company. (See Christopher, Arthur B.)
Thomas Textile Company, assignor to Thomas J. Swartz, New York, N. Y. Babies' diapers. No. 158,200; July 11.
Tire Inflator Co., Philadelphia, Pa. Tire-inflating devices. No. 158,777; July 11.
Triangle Manufacturing Co., Cedar Rapids, Iowa. Egg-preserving compounds. No. 157,960; July 11.
Tsagarakis, George, New York, N. Y. Beverages sold as soft drinks. No. 164,525; July 11.
United States Asbestos Company, Lancaster, Pa. Fabric, brake, and transmission lining. No. 162,653; July 11.
Vanity Brassiere Company Inc., New York, N. Y. Bandeaux and brassières. No. 156,557; July 11.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Vienna Medical Company, Detroit, Mich. Cough lozenges and sirup and compound for treatment of coughs. No. 159,638; July 11.
Wampole, Henry S., Company, The, Baltimore, Md. Antiseptic solution. No. 158,964; July 11.
Western Cartridge Company, East Alton and Springfield, Ill. Shot shells. No. 164,681; July 11.
Westinghouse Electric & Mfg. Company, East Pittsburgh, Pa. Monthly magazines. No. 159,642; July 11.
White Bluffs Warehouse Co., White Bluffs, Wash. Fresh apples. No. 141,049; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 139,438–46; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 139,766–7; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 139,768–76; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 139,825–6; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. No. 139,828; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. No. 139,832; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 139,834–5; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 140,154–5; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 140,228–31; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. No. 140,235; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 140,421–2; July 11.
Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 148,408–12; July 11.
Whiting, John L.-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. No. 157,506; July 11.
Wickercraft, The, Pasadena, Calif. Furniture made of reed, rattan, and fiber. No. 155,288; July 11.
Will & Baumer Candle Co. Inc., Syracuse, N. Y. Incense. No. 160,175; July 11.
Wingert, Martha S., Whittier, Calif. Dolls. No. 161,913; July 11.
Wright & Alexander Company, Rochester, N. Y. Metal inserts for anchoring piping and shafting, etc., to concrete construction. No. 133,015; July 11.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adapter. F. T. Baird. No. 1,422,331; July 11.
Advertising device. R. A. Bingaman. No. 1,422,329; July 11.
Advertising wheel. O. W. Jones. No. 1,422,577; July 11.
Aerial tramway. F. C. Carstarphen. No. 1,422,255; July 11.
Aeroplane. O. W. Greene. No. 1,422,197; July 11.
Aeroplane control. P. Warminski. No. 1,422,503; July 11.
Aeroplanes, Speed indicator for. A. F. Poole. No. 1,422,224; July 11.
Air compressor. H. C. Aarup. No. 1,422,070; July 11.
Air-spring rigging. L. R. Gruss. No. 1,422,566; July 11.
Aircraft. F. W. Gore. No. 1,422,261; July 11.
Aircraft, Means for balancing and regulating the lift of. F. H. Page. Nos. 1,422,614–16; July 11.
Alcohols, Purifying higher secondary. R. B. Lebo. No. 1,422,583; July 11.
Alloy, Aluminum. F. C. Frary. (Reissue.) No. 15,407; July 11.
Alloy containing iron, nickel, chromium. P. Girin. No. 1,422,096; July 11.
Alloys of aluminium and producing same. A. Manhart. No. 1,422,591; July 11.
Aluminum chloride, Making. H. D. Gibbs. No. 1,422,560; July 11.
Aluminum chloride, Manufacture of. F. W. Hall. No. 1,422,568; July 11.
Amusement device. J. D. Froman. No. 1,422,688; July 11.
Amusement ride. J. Irsch. No. 1,422,764; July 11.
Animal trap. W. Dunn. No. 1,422,424; July 11.
Annealing malleable cast iron. C. T. Holcroft. No. 1,422,710; July 11.
Anticreeper. H. G. Gillmor. No. 1,422,260; July 11.
Antiskid device. W. L. Majors. No. 1,422,285; July 11.
Antiskid device. G. D. Winters. No. 1,422,646; July 11.
Arm, Artificial. P. Nicola. No. 1,422,468; July 11.
Arseno-stibino compounds and making the same, Complex. C. N. Myers. No. 1,422,294; July 11.
Articles, Apparatus for cleaning. G. W. Schweinsberg and M. I. Doyle. No. 1,422,309; July 11.
Ash receptacle. L. Aptowicz. No. 1,422,165; July 11.
Atomizer. E. C. Petcher. No. 1,422,778; July 11.
Autographic register. H. L. Roberts. No. 1,422,132; July 11.
Automatons, Motion device for. F. Gergellino. No. 1,422,436; July 11.
Automobile bodies to the chassis, Means for connecting. A. C. Desler. No. 1,422,086; July 11.
Automobile bumper. N. MacInnes. No. 1,422,103; July 11.
Automobile fender. S. H. Sumbullian. No. 1,422,388; July 11.
Automobile hood. R. E. Robinson. No. 1,422,305; July 11.
Automobile lock. C. F. Murray. No. 1,422,221; July 11.
Automobile lubricating device. C. V. Nord. No. 1,422,698; July 11.
Automobiles, Washbasin for. W. H. Hollis. No. 1,422,763; July 11.
Awnings, Attachment for. J. A. Lenhoff. No. 1,422,772; July 11.
Axle. T. Zimmerman. No. 1,422,647; July 11.
Bag frame. F. A. Fuller. No. 1,422,554; July 11.
Bag holder. R. W. and W. V. Beal. No. 1,422,524; July 11.
Bag holder. E. O. Bulman. No. 1,422,659; July 11.
Banana unloader. J. Brennan. No. 1,422,656; July 11.
Banjo structure. C. Parker. No. 1,422,769; July 11.
Bar: *See*—
Iron bar.
Bar-spacing device. W. E. White. No. 1,422,157; July 11.
Barrette. M. D. Meserole. No. 1,422,464; July 11.
Bassinet. A. Pomilio. No. 1,422,619; July 11.
Bathtubs, Sustaining means for infants'. C. C. Keeha. No. 1,422,718; July 11.
Battery grip. C. E. Johnson. No. 1,422,765; July 11.
Bearing. A Kingsbury. No. 1,422,448; July 11.
Bearing and making same. W. G. H. Brehmer. No. 1,422,655; July 11.
Bearing, Roller. O. F. Zaba. No. 1,422,162; July 11.
Bearing, Synthetic jewel. T. G. McDougal and S. J. McDowell. No. 1,422,216; July 11.
Bearings or other purposes, Manufacturing composite articles for. E. G. Dann. No. 1,422,677; July 11.
Bed attachment. F. Cortese. No. 1,422,744; July 11.
Bed-laster and clasp. C. F. Adams. No. 1,422,806; July 11.
Bed, Portable folding. F. M. Stoll. No. 1,422,320; July 11.
Beds, Elevating rack for. C. G. Alguire. No. 1,422,405; July 11.
Belt, Conveyer. J. N. Kenny. No. 1,422,208; July 11.
Belt conveyers, Troughing pulley for. F. I. L. Bylger. No. 1,422,662; July 11.
Belt, Conveying. J. L. Wentz. No. 1,422,399; July 11.
Belts, Fastening for driving. A. J. Forbes. No. 1,422,430; July 11.
Belting tool. A. G. Bava. No. 1,422,332; July 11.
Bench or floor dog. F. Jaskowiak. No. 1,422,272; July 11.
Binders, mowers, and other vehicles, Coupling for trains of. C. R. Davis. No. 1,422,186; July 11.
Block: *See*—
Building block. Paving block.
Blocks, Core for making ventilated. E. L. Page. No. 1,422,370; July 11.
Blotter. F. A. Fuller. No. 1,422,555; July 11.
Boat, Multiple-hull. F. G. Creed. No. 1,422,542; July 11.
Boot protector. J. N. Eltgroth. No. 1,422,683; July 11.
Boring machine. W. P. Lotz. No. 1,422,456; July 11.
Bottle carrier, Milk-. C. E. Hough. No. 1,422,574; July 11.
Bottle holder, Nursing-. J. C. Phillips. No. 1,422,223; July 11.
Bowling pins, Means for making cast. R. E. Stanley, Sr. No. 1,422,232; July 11.
Box: *See*—
Collapsible box. Fiber-board box.
Feed box.
Box machine. L. W. Darling. No. 1,422,544; July 11.
Box-pressing machine. M. E. Kondolf. No. 1,422,590; July 11.
Boxes, Apparatus for sealing. A Pape. No. 1,422,300; July 11.
Brace: *See*—
Corner brace. Truck brace.
Bracelet link. O. Fessler. No. 1,422,428; July 11.
Bracket: *See*—
Bumper bracket. Radiator bracket.
Brake mechanism. H. Detzer and S. G. Barnard. No. 1,422,423; July 11.
Brakes, Release and take-up device for. A. K. Pehrson. No. 1,422,125; July 11.
Breakers, Controller for automatic vacuum. W. A. Howland. No. 1,422,444; July 11.
Bridge, Lift. P. Joosting. No. 1,422,717; July 11.
Bronze worm-gear mounting. J. W. White, Jr. No. 1,422,512; July 11.
Brush. J. E. Chleso. No. 1,422,739; July 11.
Brush, Combination face. A. E. Rope. No. 1,422,787; July 11.
Brush, Phonograph record. E. J. Bakula. No. 1,422,166; July 11.
Bucket for handling loose materials. L. D. Moore. No. 1,422,601; July 11.
Buckets, Chain attachment for elevator. H. B. Walker. No. 1,422,151; July 11.
Building block. H. L. Emery. No. 1,422,258; July 11.
Building block. W. Tackenberg. No. 1,422,146; July 11.
Bumper. P. E. Demmer. No. 1,422,546; July 11.
Bumper bracket. R. T. Newton. No. 1,422,777; July 11.
Burner: *See*—
Hydrocarbon burner.
Burner-lifting means. J. S. Brennan. No. 1,422,079; July 11.
Bushing coupling, Frictional. L. W. Misenheimer. No. 1,422,308; July 11.
Bushing inserter or remover. O. F. Timm. No. 1,422,280; July 11.
Button stay strips, Sewing machine for applying. J. B. Moffatt. No. 1,422,220; July 11.
Calcium carbide, Manufacturing. W. B. Rogatz. No. 1,422,185; July 11.
Calendar, Maturity. J. M. Stout. No. 1,422,235; July 11.
Cameras, Film-winding mechanism for. W. A. Riddell. No. 1,422,131; July 11.
Camp chair, Folding. F. M. Stoll. No. 1,422,319; July 11.
Camping trailer. W. J. Vint. No. 1,422,496; July 11.
Can-body-ending machine. T. F. Fitzsimons. No. 1,422,192; July 11.

Can-discharge device. A. R. Thompson. No. 1,422,798; July 11.
Can opener. F. L. Whitcomb. No. 1,422,400; July 11
Cap. H. S. Gooding. No. 1,422,435; July 11.
Cap shaper. O. C. Leger. No. 1,422,366; July 11.
Car-coupling release rigging. G. E. Murray. No. 1,422,293; July 11.
Car-door lock. J. D. McQuiston. No. 1,422,589; July 11.
Car, Grain. W. J. Robider. No. 1,422,133; July 11.
Car-wheel-boring machine. W. T. Sears. No. 1,422,140; July 11.
Cars, Emergency bearing for railway. F. Mehlis. No. 1,422,596; July 11.
Cars, Hatch cover for refrigerator. A. G. Sandman. No. 1,422,139; July 11.
Carbonizing method. W. Bonsor. No. 1,422,530; July 11.
Carburetor. F. E. Aseltine. No. 1,422,329; July 11.
Carburetor for internal-combustion engines. C. Brown. No. 1,422,413; July 11.
Carriage, Child's. C. A. Lindberg. No. 1,422,277; July 11.
Carrier: *See*—
Bottle carrier. Tire carrier.
Carriers, System of conveying and delivering material to. F. L. Stuart. No. 1,422,493; July 11.
Chain. J. F. Schott. No. 1,422,790; July 11.
Chair: *See*—
Camp chair.
Chilling and freezing animal substances. J. C. Shaw. No. 1,422,627; July 11.
Chilling and freezing animal substances, Apparatus or plant for. J. C. Shaw. No. 1,422,628; July 11.
Chlorosulphonic acid. T. L. Briggs. No. 1,422,335; July 11.
Cigar and cigarette ash retainer. C. H. Kattenberg. No. 1,422,578; July 11.
Cigarette holder. T. Duncan. No. 1,422,347; July 11.
Cigarettes, Apparatus for collecting and conveying. W. E. Molins. No. 1,422,600; July 11.
Circuit connector. H. A. Douglas. No. 1,422,257; July 11.
Circuit protector, Interlock. J. Lebovici. No. 1,422,110; July 11.
Clasp and lock, Combination. M. Leibovitz. No. 1,422,214; July 11.
Cleaner: *See*—
Comb cleaner. Thread cleaner.
Suction cleaner.
Cleaners, Beater for suction. E. B. Hoff. No. 1,422,100; July 11.
Clip: *See*—
Retaining clip.
Clips, Making wire-rope clamp. G. C. Soule and J. B. Woodbury. No. 1,422,314; July 14.
Clock. P. Mansel. No. 1,422,590; July 11.
Coal, Coking of. S. R. Illingworth. No. 1,422,269; July 11.
Coal, Method of and means for distilling. A. W. Helmholtz. No. 1,422,706; July 11.
Coaster, Gliding. A. H. Hleatzman. No. 1,422,203; July 11.
Coating apparatus. C. I. Dayton. No. 1,422,545; July 11.
Coffin. G. M. Mahar and P. M. M. Phelps No. 1,422,726; July 11.
Coke-oven doors, Apron for. L. E. Doty and F. H. Smith. No. 1,422,756; July 11.
Collapsible box. N. A. Gibbons. No. 1,422,692; July 11.
Color print viewable by lights of different colors and making same. C. Berger. No. 1,422,527; July 11.
Comb cleaner. C. Runyan. No. 1,422,788; July 11.
Comestibles, Method and apparatus for handling. P. W. Petersen. No. 1,422,126; July 11.
Compensating starting switch. V. N. Marker. No. 1,422,592; July 11.
Concrete insert. C. C. Tomkinson. No. 1,422,636; July 11.
Concrete pipes, Apparatus for forming. D. N. Trullinger and L. A. Granger. No. 1,422,150; July 11.
Conduit coupling. J. F. Rambo. No. 1,422,374; July 11.
Connecting two elements, Means for. J. H. Williams. No. 1,422,158; July 11.
Container. E. A. Nelman. No. 1,422,606; July 11.
Containers, specially those for food, Air-tightly sealing composition for metal. J. H. Mackenzie. No. 1,422,114; July 11.
Conveyer. F. L. Stuart. No. 1,422,492; July 11.
Conveyers, Reciprocating pan. G. C. Illingworth. No. 1,422,270; July 11.
Conveying and delivering material, Apparatus for. D. Fraser, S. Shafer, Jr., and C. W. Levalley. No. 1,422,687; July 11.
Cooker and boiler. W. A. Penrod. No. 1,422,472; July 11.
Cooker, Electric steam-pressure. W. A. Duncan. No. 1,422,348; July 11.
Cooling and freezing of fish and the like, Apparatus for. W. B. Hardy and J. J. Pique. No. 1,422,570; July 11.
Corn-husking machine. G. Norgren. No. 1,422,609; July 11.
Corn planters, Combination rolling cutter and shoe furrow opener for. L. H. Langland. No. 1,422,454; July 11.
Cornerib-floor mold, Ventilated-. E. L. Page. No. 1,422,371; July 11.
Corner brace. W. R. Kropf. No. 1,422,770; July 11.
Cotter-pin puller. M. H. Harter. No. 1,422,201; July 11.
Coupling: *See*—
Conduit coupling. Selective coupling.
Draft coupling. Shaft coupling.
Flexible coupling. Traction coupling.
Coupling, Selective. L. H. Bullard. No. 1,422,536; July 11.
Crane, Portable floor. R. E. Manley. No. 1,422,459; July 11.
Crate, Collapsible. E. E. Sutherland. No. 1,422,797; July 11.
Current flowing in an alternating-current circuit, Means for controlling and measuring a. E. O. Schweitzer. No. 1,422,484; July 11.
Curtain, Combination back and side. K. Forbes. No. 1,422,431; July 11.
Cutlery, Polishing compound for finishing table. G. F. Hemming. No. 1,422,707; July 11.
Cutlery-polishing machine. C. H. Hemming. No. 1,422,358; July 11.
Cutter: *See*—
Potato cutter. Thread cutter.
Cycle, Water. G. C. Brown. No. 1,422,533; July 11.
Cylinder lock. M. C. Maxwell. No. 1,422,595; July 11.
Damper, Fireplace. G. A. Morrell. No. 1,422,465; July 11.
Davit, Ship's. T. J. Carr. No. 1,422,175; July 11.
Dehydrator or drier. D. P. Power. No. 1,422,620; July 11.
Deaydrators, Combustion and mixing chamber for. F. C. Chapman. No. 1,422,416; July 11.
Dental and surgical table, Knockdown. W. G. Holmes. No. 1,422,101; July 11.
Dental impression tray. E. R. Smith. No. 1,422,488; July 11.
Dental-plate anchorage. E. H. Lace. No. 1,422,452; July 11.
Desk-drawer lock. I. A. Stafford. No. 1,422,631; July 11.
Diestock. I. W. Nonneman. No. 1,422,222; July 11.
Dimmer. J. M. Waddell. No. 1,422,393; July 11.
Diphenylguanidine, Making. M. L. Weiss. No. 1,422,506; July 11.
Diphenylamine, Manufacturing. A. P. Tauberg. No. 1,422,494; July 11.
Disconnecting device. J. P. Arndt. No. 1,422,248; July 11.
Dispensing device. E. and G. Kent. No. 1,422,768; July 11.
Distilling carbonaceous material. W. Thomas. No. 1,422,496; July 11.
Distilling process. F. Pollak. No. 1,422,475; July 11.
Door check. A. Reeves. No. 1,422,783; July 11.
Door check. P. Zimbelmann. No. 1,422,163; July 11.
Door lock. A. Gablenz. No. 1,422,690; July 11.
Doorknob lock. J. Nelson. No. 1,422,467; July 11.
Draft coupling. E. Fowler and J. V. Lewis. No. 1,422,194; July 11.
Draft regulator, Automatic. C. J. Sherwood. No. 1,422,311; July 11.
Drafting instrument. C. A. Walters. No. 1,422,641; July 11.
Drill: *See*—
Rock drill.
Drill. A. L. Hawkesworth. Nos. 1,422,264–5; July 11.
Drills and similar tools, Drive for. W. Thompson and W. J. Roy. No. 1,422,322; July 11.
Drum feeder. G. T. Pollard and O. H. Johnson. No. 1,422,618; July 11.
Dynamo-electric machine. E. A. Watson. No. 1,422,154; July 11.
Edger. A. Mereen. No. 1,422,463; July 11.
Egg turner. W. H. Bihn. No. 1,422,250; July 11.
Electric condenser. F. S. Smith. No. 1,422,312; July 11.
Electric generator. L. J. Le Pontois. No. 1,422,584; July 11.
Electric machine, Multidisk. R. H. Wappler. No. 1,422,395; July 11.
Electric machines, Brush holder for. E. Dörffel. No. 1,422,188; July 11.
Electric vacuum apparatus. M. Schenkel and J. Jüst. No. 1,422,481; July 11.
Electrical apparatus, Connection for. C. D. Filkins. No. 1,422,429; July 11.
Electrical connector device. R. B. Benjamin. No. 1,422,170; July 11.
Electrical control apparatus. C. Schwartz. No. 1,422,625; July 11.
Electrical controlling device, Automatic. C. F. P. Carrier. No. 1,422,415; July 11.
Electrical heater resistance element. R. W. Reynolds. No. 1,422,130; July 11.
Electrical transformers for regulating or varying the voltage of the current supplied therefrom. F. E. Berry. No. 1,422,653; July 11.
Electrically-heated devices, Automatic means for controlling. A. F. Brown. No. 1,422,735; July 11.
Electrodes, Clamp mounting for. R. H. Wappler. No. 1,422,396; July 11.
Electromagnetic measuring apparatus. J. C. Stangler. No. 1,422,317; July 11.
Electromagnetic switch, Retarded. A. M. Haslev. No. 1,422,702; July 11.
Elevator: *See*—
Grain elevator.
Elevator or carrier, Parcel and package. J. Collins. No. 1,422,673; July 11.
Elevators and conveyers, Detector for. W. T. Donaldson. No. 1,422,091; July 11.
Elevators, Safety device for. H. McGillivray. No. 1,422,774; July 11.
Engine: *See*—
Internal-combustion engine.
Engine, Air-cooled internal-combustion. R. Kronenberg. No. 1,422,719; July 11.
Engine-starting device. J. Bijur. (Reissue.) No. 15,403; July 11.

Engines, Automatic switch for circuits of internal-combustion. S. Stevens. No. 1,422,318; July 11.
Engines, Counterbalance for the crank shafts of internal-combustion. F. O. Sterrett. No. 1,422,633; July 11.
Engines, Cooling device for internal-combustion. C. Grunwald. No. 1,422,565; July 11.
Engines, Cooling system for internal-combustion. W. H. Farr. No. 1,422,426; July 11.
Engines, Ignition device for internal-combustion. F. A. Smith. No. 1,422,794; July 11.
Engines, Power indicator for internal-combustion. H. Shephard. No. 1,422,485; July 11.
Engines, Undercasing for motor-vehicle. R. D. Riddle. No. 1,422,622; July 11.
Ethylene and other components from gaseous mixtures containing the same, Separating. G. O. Curme, Jr. No. 1,422,184; July 11.
Excavating and loading machine. E. Keast. No. 1,422,767; July 11.
Excavators, Saddle-block structure for. C. E. Gage. No. 1,422,259; July 11.
Extruding machine. J. E. Heller. No. 1,422,356; July 11.
Fare-recording apparatus. P. R. Forman. No. 1,422,686; July 11.
Fastening device. H. F. C. and F. W. Schultz. No. 1,422,482; July 11.
Feed box, Folding. M. Davis. No. 1,422,422; July 11.
Feeding mechanism. J. Sharp. No. 1,422,229; July 11.
Fender: *See*—
Automobile fender.
Fertilizing elements from manure, Extracting. C. E. Gardan. No. 1,422,434; July 11.
Fiber-board box. J. L. Christensen. No. 1,422,540; July 11.
Film holder. J. E. Rodriguez Serra. No. 1,422,785; July 11.
Film-testing machine. G. L. Chanier. No. 1,422,665; July 11.
Filter. M. Elrod. No. 1,422,190; July 11.
Fire extinguisher. F. C. Bargar. No. 1,422,406; July 11.
Firearm. C. G. Swebilius. Nos. 1,422,237–8; July 11.
Flash light. C. W. Swingle. No. 1,422,239; July 11.
Flexible coupling. G. A. Ungar. No. 1,422,638; July 11.
Flour to improve its baking qualities, Aging wheaten. R. Hutchinson. No. 1,422,102; July 11.
Fly exterminator. E. J. Marchand. No. 1,422,287; July 11.
Flying machines, Controlling mechanism for. R. E. Mitton and W. M. Braley. No. 1,422,288; July 11.
Folding frame, Covered. C. R. Kositsky. No. 1,422,450; July 11.
Food machine. J. and H. Trust. No. 1,422,391; July 11.
Frame: *See*—
Bag frame. Lens frame.
Folding frame. Truck side frame.
Frame and spring members, Machine for assembling. C. H. Zller. No. 1,422,326; July 11.
Frame support. F. M. A'Hearn. No. 1,422,164; July 11.
Friction and spanner wrench, Combined. J. A. Schleicher. No. 1,422,808; July 11.
Friction driving device. H. C. Egerton. No. 1,422,550; July 11.
Furnace: *See*—
Smelting furnace. Stove and furnace.
Furnace construction. W. G. Wise. No. 1,422,160; July 11.
Furnaces, Controlling device for boiler. R. F. Metcalfe. No. 1,422,369; July 11.
Fuse. J. A. Nelson. No. 1,422,122; July 11.
Fuse, Renewable. F. N. Conant. Nos. 1,422,419-20; July 11.
Game device. H. J. Schumacher and F. Rice. No. 1,422,383; July 11.
Garden tool. D. S. Dickie. No. 1,422,090; July 11.
Garment hanger. C. S. Rattan. No. 1,422,782; July 11.
Gas-analyzing apparatus. O. Rodhe. (Reissue.) No. 15,409; July 11.
Gas-booster regulator. P. Hoffman and F. C. Reed. No. 1,422,573; July 11.
Gas engines, Valve mechanism for. E. H. Ryon. No. 1,422,188; July 11.
Gas meters, Means for and method of proving. R. L. Dezendorf. No. 1,422,089; July 11.
Gas producer. L. Fornas. No. 1,422,093; July 11.
Gas producer. J. Wells. No. 1,422,643; July 11.
Gases and gaseous substances, Method and apparatus for treating. A. B. Lamb. No. 1,422,211; July 11.
Gases, Apparatus for automatic and continuous analysis and recording of. W. D. B. Brown and W. T. Pickston. No. 1,422,080; July 11.
Gases, Discharging smelter. W. H. Howard. No. 1,422,575; July 11.
Gaseous hydrocarbon mixtures, Treating. G. O. Curme, Jr. No. 1,422,182; July 11.
Gaseous mixtures, Treating. G. O. Curme, Jr. No. 1,422,183; July 11.
Gasoline soldering iron. W. Cohen. No. 1,422,740; July 11.
Gate: *See*—
Segment gate.
Gauge: *See*—
Lever-limit gauge. Pressure gauge.
Measuring gauge.
Gauge. I. F. Woodrow. No. 1,422,161; July 11.
Gauge-cock-operating tool. S. T. Kunkel. No. 1,422,771; July 11.
Gauge, Pressure. A. B. Low. No. 1,422,278; July 11.
Gear, Cushioned. A. C. Hamilton. No. 1,422,440; July 11.
Gear cutting, slotting, and like machine. J. H. Melloy and W. J. Owen. No. 1,422,462; July 11.
Gear-shift lock. G. B. M. Gray. No. 1,422,353; July 11.
Gear, Variable-speed. P. A. Amundson. No. 1,422,072; July 11.
Gear wheel. J. L. Florin. No. 1,422,351; July 11.
Gearing. A. E. Schuette. No. 1,422,792; July 11.
Generators, Coking chamber for. P. Jaworski. No. 1,422,206; July 11.
Gig. J. D. Woods and D. J. Palmer. No. 1,422,805; July 11.
Glass holder, Drinking-. B. V. Czarnecki. No. 1,422,676; July 11.
Grader. H. L. Dever. No. 1,422,754; July 11.
Grading machine. H. L. Dever. No. 1,422,753; July 11.
Gradometer. D. P. Corcoran. No. 1,422,743; July 11.
Grain elevator. O. H. Brown. No. 1,422,534; July 11.
Grain-feeding spreader. R. L. Owens. No. 1,422,297; July 11.
Grain separator. R. L. Owens. Nos. 1,422,298–9; July 11.
Grease retainer. S. B. Collier. No. 1,422,741; July 11.
Grinder, Ignition-point. D. H. Greenfield. No. 1,422,097; July 11.
Grinding and lapping machine. F. C. Weaver. No. 1,422,505; July 11.
Grinding mechanism. A. O. S. Taylor. No. 1,422,685; July 11.
Grinding wheel. H. E. Harris. No. 1,422,200; July 11.
Gripping and pulling tool. H. Dalltz. No. 1,422,185; July 11.
Gripping device. J. F. Moody. No. 1,422,289; July 11.
Gun, Fort disappearing. C. Ottolini. No. 1,422,296; July 11.
Gun with independent sighting line. W. Hellemann. No. 1,422,099; July 11.
Handle: *See*—
Tool handle.
Hair clipper. N. V. Ghetia. No. 1,422,352; July 11.
Hair curler and waver. A. V. P. Martin. No. 1,422,593; July 11.
Hammer. C. Hansen. No. 1,422,262; July 11.
Hammer crusher. W. H. Hartman. No. 1,422,761; July 11.
Hand, Jointed artificial. P. A. Ingold. No. 1,422,714; July 11.
Handbag catch. B. P. Cullen and M. J. Wochna. No. 1,422,748; July 11.
Handle. R. W. Griswold. No. 1,422,355; July 11.
Handle. J. F. Smart. No. 1,422,630; July 11.
Hanger: *See*—
Garment hanger.
Harness hook. H. W. Rager. No. 1,422,128; July 11.
Harrow. F. G. Biggerstaff. No. 1,422,173; July 11.
Hay loader. P. L. Forbes. No. 1,422,432; July 11.
Haystacker. J. F. Chladek. No. 1,422,667; July 11.
Haystacker, Automatic. L. and C. Oertli and H. Turnell. No. 1,422,611; July 11.
Headed machine parts, Method and apparatus for making. D. E. Johnson and T. A. Madsen. No. 1,422,274; July 11.
Headlight and direction indicator, Combined. W. H. Sheehan. No. 1,422,629; July 11.
Headlight, Movable. H. D. Boughter. No. 1,422,732; July 11.
Heat-radiating device. E. G. McGlauflin. No. 1,422,282; July 11.
Heater: *See*—
Portable heater. Water heater.
Heating apparatus. A. H. Des Parois. Nos. 1,422,087–8; July 11.
Heating element. M. Schey. No. 1,422,379; July 11.
Heating system. G. Gabet. No. 1,422,556; July 11.
Heel, Spring. E. L. White. No. 1,422,511; July 11.
Hinge. W. C. Baxter. No. 1,422,651; July 11.
Hogs, Singeing. R. D. MacLaurin. No. 1,422,217; July 11.
Hood fastener. H. B. Gape. No. 1,422,691; July 11.
Hook: *See*—
Harness hook. Logging hook.
Hosiery, Means for manufacturing castings for shaping and drying. A. E. Cottom. No. 1,422,675; July 11.
Hutch. J. F. McKim. No. 1,422,288; July 11.
Hydrocarbon burner. F. V. Detwiler. No. 1,422,752; July 11.
Hydrocarbon motor. H. D. Church. No. 1,422,338; July 11.
Hydrocarbon motors, Vibration damper for. J. G. Vincent. No. 1,422,824; July 11.
Ice-cream-dispensing machine. W. J. Guerin. No. 1,422,198; July 11.
Ignition system. W. O. Pennington. (Reissue.) No. 15,408; July 11.
Illuminated signal. C. A. Christofferson. No. 1,422,669; July 11.
Indicating and recording apparatus. A. C. Johnson. No. 1,422,207; July 11.
Inductive-interference-suppression device. H. S. Osborne. No. 1,422,470; July 11.
Ingot mold. S. E. Hitt and J. I. Peyton. No. 1,422,572; July 11.

Insulating and resistant articles and products thereof, Manufacturing. F. T. Lahey. No. 1,422,720; July 11.
Internal-combustion engine. W. J. Snadecki. No. 1,422,143; July 11.
Iris diaphragm. P. J. Marks. No. 1,422,461; July 11.
Iron: *See*—
Gasoline soldering iron. Soldering iron.
Iron and steel, Producing. W. E. F. Bradley. No. 1,422,733; July 11.
Iron bar, Rolled. H. Gockel. No. 1,422,694; July 11.
Jack: *See*—
Lifting jack.
Jackscrew. J. M. Lydick. No. 1,422,279; July 11.
Jar holder, Fruit-. L. H. Shank. No. 1,422,626; July 11.
Joint: *See*—
Rail joint.
Kapok and other fibers incombustible, Method to render. R. C. Valls. No. 1,422,242; July 11.
Key: *See*—
Switching key.
Key-duplicating machine. W. C. Wetherholt. No. 1,422,155; July 11.
Keyway locator. K. W. Couse. No. 1,422,748; July 11;
Kiln: *See*—
Dry kiln.
Kiln, Dry. N. H. and H. L. Henderson. No. 1,422,202; July 11.
Kindling device. H. Grossmann. No. 1,422,698; July 11.
Kitchen, Rolling. J. Morrison. No. 1,422,603; July 11.
Knockdown table. J. D. Adams. No. 1,422,246; July 11.
Knurling tool, Self-opening. E. Bach. No. 1,422,649; July 11.
Ladder and manufacturing same. W. A. Bilger and A. C. Walker. No. 1,422,654; July 11.
Lamp and starting same, Inclosed-arc. E. Friedrich. No. 1,422,553; July 11.
Lamp, Fender. H. J. Berringer. No. 1,422,528; July 11.
Lamp ring. W. A. Bell. No. 1,422,325; July 11.
Lamp, Signal. C. A. Christofferson. No. 1,422,668; July 11.
Lamps, Anode for luminous arc. C. A. B. Halvorson, Jr. No. 1,422,439; July 11.
Lamps, Apparatus for lighting and extinguishing gas burners of street. P. Bernard. No. 1,422,249; July 11.
Lamps, Leading-in wires for incandescent electric. F. Hoge. No. 1,422,443; July 11.
Lamps, Renewal of the filaments in metal-filament electric. S. Coxon and W. A. Williams. No. 1,422,747; July 11.
Latch. T. A. Watts. No. 1,422,504; July 11.
Lathe headstock. G. E. Greenleaf and C. F. Randolph. No. 1,422,098; July 11.
Lawn edger. B. C. Gochenour. No. 1,422,693; July 11.
Lemon squeezer. W. E. Gray. No. 1,422,196; July 11.
Lens frame, Ophthalmic test-. M. Power. No. 1,422,303; July 11.
Level, plumb, square, and measure, Combined. J. Stanley. No. 1,422,231; July 11.
Level-registering means. F. W. Merritt and A. E. Watts. No. 1,422,118; July 11.
Lever-limit gauge, Indicating-. M. Bartholdy. No. 1,422,169; July 11.
License-number holder and illuminator, Vehicle. J. E. Rutherford. No. 1,422,480; July 11.
Lifting jack. A. D. Powell. No. 1,422,781; July 11.
Light: *See*—
Flash light.
Light, Projecting device for beams of. S. Salto. No. 1,422,307; July 11.
Lighting-accessory suspension. W. H. Spencer. No. 1,422,796; July 11.
Lighting unit. R. D. Wardell. No. 1,422,244; July 11.
Liquid container. B. F. Germani. No. 1,422,559; July 11.
Liquors with SO_2, Gassing. F. M. Allen. No. 1,422,327; July 11.
Loading and transporting apparatus. L. B. Borelko. No. 1,422,252; July 11.
Lock: *See*—

Automobile lock.	Doorknob lock.
Car-door lock.	Gear-shift lock.
Cylinder lock.	Permutation lock.
Desk-drawer lock.	Pin-tumbler lock.
Door lock.	Valve lock.

Lock nut. H. L. Davis. No. 1,422,750; July 11.
Locker, Air and water service hose. C. E. Hill. No. 1,422,350; July 11.
Locomotive cranes, Control means for. P. Burke. No. 1,422,082; July 11.
Locomotive, Turbine-driven. F. Ljungström. No. 1,422,111; July 11.
Locomotives, Equalising gear for. E. M. Shannon. No. 1,422,793; July 11.
Logging hook, F. H. Shaffer. No. 1,422,228; July 11.
Looms, Filling-end clearer for filling-replenishing. A. E. Stafford. No. 1,422,727; July 11.
Looms, Filling-end-withdrawing means for weft-replenishing. E. S. Stimpson. No. 1,422,728; July 12.
Lure, Trolling. T. G. McClanahan. No. 1,422,467; July 11.
Magneto machines, Armature for. J. R. Stark. No. 1,422,145; July 11.
Marking devices, Type-holding means for. A. G. Hupfel. No. 1,422,268; July 11.
Matrices, Manufacturing. J. L. Rousseau. No. 1,422,137; July 11
Matrix manufacture. J. L. Rousseau. No. 1,422,136; July 11.
Measuring device. E. H. Lord. No. 1,422,112; July 11.
Measuring gauge. W. Humphreys. No. 1,422,576; July 11.
Mechanical movement. J. G. Eklund. No. 1,422,682; July 11.
Memorandum pad, stand, and pad sheets. G. W. Smith. No. 1,422,489; July 11.
Metal wheel. G. G. Barry. No. 1,422,168; July 11.
Metallic structure, Flexible. H. Maxwachs. No. 1,422,776; July 11.
Metallurgical process. W. E. F. Bradley. No. 1,422,734; July 11.
Mimeograph attachment. W. L. Majors. No. 1,422,286; July 11.
Mirror structure. C. L. Fitchet. No. 1,422,685; July 11.
Mixers, Safety clutch device for. F. X. Lauterbur. No. 1,422,213; July 11.
Mold: *See*—
Ingot mold.
Mold. E. J. Kukac. No. 1,422,106; July 11.
Molded articles of pure cellulose, Producing. M. G. Olivier. No. 1,422,489; July 11.
Mop frame and handle coupling. J. A. Meinhardt. No. 1,422,308; July 11.
Motor: *See*—
Hydrocarbon motor.
Motor controller. T. H. Rodman. No. 1,422,134; July 11.
Motor-cycle guard. R. Stendel. No. 1,422,632; July 11.
Muffler. F. A. Whitten. No. 1,422,403; July 11.
Muffler cut-out. J. M. Morse. No. 1,422,466; July 11.
Multiple switch. A. J. Eaves. No. 1,422,549; July 11.
Munition casing. V. Mauck. No. 1,422,219; July 11.
Neckscarfs, Attachment for. M. Goldberg. No. 1,422,758; July 11.
Necktie retainer. L. B. Brooks. No. 1,422,658; July 11.
Notes, System of keeping. C. H. Goodyear. No. 1,422,696; July 11.
Oil press. G. A. Sauer. No. 1,422,225; July 11.
Oil shales, Working. W. W. Hoover and T. E. Brown. No. 1,422,204; July 11.
Oil-well packer. C. M. Hester. No. 1,422,704; July 11.
Ordnance, Ammunition hoisting and loading apparatus for. A. T. Dawson and G. T. Buckham. No. 1,422,678; July 11.
Ore products, Apparatus for separating the liquid and solid components of mixtures of liquids and crushed or ground. A. J. Arbuckle. No. 1,422,514; July 11.
Ore separator. E. R. Brown. No. 1,422,736; July 11.
Ores or the like, Roasting complex zinc sulphide. F. W. Harbord. No. 1,422,701; July 11.
Ornamenting device and method. H. C. Mitchell. No. 1,422,599; July 11.
Overhead-wire transport system. W. L. Barton. No. 1,422,650; July 11.
Oxysalt composition. C. Catlett. No. 1,422,337; July 11.
Pad: *See*—
Truss pad.
Paint. A. C. Holzapfel. No. 1,422,711; July 11.
Paper fastener. A. S. Toukin. No. 1,422,148; July 11.
Paper-making machine, Cylinder. W. S. Crandell. No. 1,422,541; July 11.
Paper stock, Method of and apparatus for disintegrating. M. C. J. Billingham. No. 1,422,251; July 11.
Permutation lock. J. O. Wilson. No. 1,422,645; July 11.
Paving block. C. L. Sullivan and J. D. Fletcher. No. 1,422,193; July 11.
Paving block and roadway constructed therefrom. J. D. Fletcher. No. 1,422,561; July 11.
Permutation block. J. O. Wilson. No. 1,422,645; July 11.
Phonograph. P. J. Landin. No. 1,422,453; July 11.
Phonograph. J. Shaw. No. 1,422,310; July 11.
Phonograph, Automatic. H. Swain. No. 1,422,321; July 11.
Phosphoric acid, Producing. E. W. Guernsey and J. Y. Yee. No. 1,422,690; July 11.
Photographic film rack. G. C. Cross. No. 1,422,341; July 11.
Photographic shutter. P. J. Marks. No. 1,422,460; July 11.
Piano, Automatic player. W. Lane. No. 1,422,276; July 11.
Piano player, Pneumatic. W. Lane. No. 1,422,275; July 11.
Pianos, Tracking device for player. J. P. Hulder. No. 1,422,713; July 11.
Picture-projecting apparatus, Shutter for motion-. J. B. Binston. No. 1,422,410; July 11.
Pictures, Screen for motion. J. F. R. Troeger. No. 1,422,149; July 11.
Pin. A. Nonnenmann. No. 1,422,607; July 11.
Pin-tumbler lock. P. F. Augenbraun. Nos. 1,422,515–20; July 11.
Pin-tumbler lock. M. C. Maxwell. No. 1,422,594; July 11.
Pin-tumbler lock. F. E. Thompson. No. 1,422,497; July 11.
Pipe. H. N. Matzen. No. 1,422,367; July 11.
Pipe and tube tester. J. C. Bareiss. No. 1,422,522; July 11.
Pipe wrench. W. Dvorak. No. 1,422,548; July 11.
Pipe wrench. H. Parker. No. 1,422,302; July 11.
Piston. H. D. Waterhouse. No. 1,422,729; July 11.
Piston and piston ring. H. B. Johnston. No. 1,422,273; July 11.

Piston-ring compressor. G. Garbeth. No. 1,422,557; July 11.
Piston rings, Antislap spring for. H. C. Phelps and J. C. Fox. No. 1,422,780; July 11.
Pitcher, Batter. A. J. Schultz. No. 1,422,382; July 11.
Plastic composition. E. K. Schumacher. No. 1,422,483; July 11.
Plastic material, Key base for. J. O. Fowler. (Reissue.) No. 15,406; July 11.
Plate and thread guide, Combination. G. C. L. Tisch. No. 1,422,790; July 11.
Plate-bending press. J. A. Perony. No. 1,422,779; July 11.
Plow, Tractor. L. Emerson. No. 1,422,350; July 11.
Plows, Subsoil attachment for. H. H. Colby. No. 1,422,418; July 11.
Plug, Electric multiple-connection. C. H. Tomlinson. No. 1,422,241; July 11.
Pocketknife. J. Johnson. No. 1,422,363; July 11.
Poker, Automatic. T. M. Haugh, L. C. Schilling, and J. W. Finch. No. 1,422,442; July 11.
Portable heater. L. O. Koch. No. 1,422,449; July 11.
Posts, poles, or rods, Mounting naps or caps for. A. J. Schultz. No. 1,422,226; July 11.
Potassium salts from bitterns, Extracting. I. F. Harlow. No. 1,422,571; July 11.
Potato cutter. H. L. Beucler. No. 1,422,731; July 11.
Potato-peeling machine. H. W. Hodgdon and P. F. Green. No. 1,422,706; July 11.
Powder distributor. C. Brown. No. 1,422,253; July 11.
Power propulsion device. M. C. Smith. No. 1,422,584; July 11.
Power-transmission apparatus, Electromagnetic. R. W. Van Norden. No. 1,422,243; July 11.
Power-transmission mechanism. W. I. Wheeler. No. 1,422,507; July 11.
Power-transmission mechanism. W. I. Wheeler. No. 1,422,509; July 11.
Press: *See*—
Oil press. Plate-bending press.
Press feeding mechanism. W. H. Needham. No. 1,422,605; July 11.
Pressure regulator, Governor-operated. C. W. Larner. No. 1,422,212; July 11.
Printing machines, Tape or web. O. L. Chesnutt. No. 1,422,666; July 11.
Printing plates, Forming celluloid. F. C. Goldenbaum. No. 1,422,695; July 11.
Projectiles, Electric apparatus for propelling. A. L. O. Fruchon-Villeplée. No. 1,422,427; July 11.
Projectors, Focusing mechanism for. S. Stalberg. No. 1,422,385; July 11.
Propeller. F. W. Lambert. No. 1,422,109; July 11.
Puller: *See*—
Cotter-pin puller.
Pulley. S. R. Swain. No. 1,422,389; July 11.
Pulley adapter. G. W. Hughes. No. 1,422,369; July 11.
Pulley construction, Two-piece. F. Hinkel. No. 1,422,263; July 11.
Pump. H. M. Green. No. 1,422,759; July 11.
Pump, Deep-well. E. D. McDonald. No. 1,422,588; July 11.
Purse and vanity-case frame, Combined. I. J. Levy. No. 1,422,724; July 11.
Rack: *See*—
Photographic film rack.
Radiator bracket, Wall-. G. C. Clanton. No. 1,422,177; July 11.
Radiator cover. W. S. Runnels. No. 1,422,306; July 11.
Radiators, Drainage tank for automobile. W. H. Day. No. 1,422,679; July 11.
Radiators, Locking cap for automobile. H. S. Parlee. No. 1,422,372; July 11.
Radiometer. M. W. Ryan and M. Uttendorfer. No. 1,422,378; July 11.
Raft, Life. H. W. Broady. No. 1,422,657; July 11.
Rail joint, Welded. E. M. T. Ryder. No. 1,422,623; July 11.
Rails, Anchor and clip for. F. W. Cooper and H. Steadworthy. No. 1,422,340; July 11.
Railway rails, Fishplate for. R. N. Dithmer. No. 1,422,187; July 11.
Railway, Suspended high-speed. R. Wagner. No. 1,422,394; July 11.
Railway-switch stand. L. Facciuto, Sr. No. 1,422,191; July 11.
Ratchet wrench. B. A. Miller. No. 1,422,121; July 11.
Reamer, Expanding. J. J. Jasperson. No. 1,422,295; July 11.
Receptacle, flexible conduit, gas mask, and the like. C. A. Cleghorn. No. 1,422,670; July 11.
Refrigerator, Iceless. C. L. Kik. Nos. 1,422,384–5; July 11.
Register: *See*—
Autographic register.
Regulator: *See*—
Draft regulator. Pressure regulator.
Gas-booster regulator.
Regulating and control apparatus and system. F. W. Meyer. No. 1,422,120; July 11.
Repair tongue hound, Adjustable. F. J. Dultmeier. No. 1,422,681; July 11.
Retaining clip. J. J. O'Brien. No. 1,422,610; July 11.
Retort. L. L. Summers. No. 1,422,634; July 11.
Reversing mechanism. W. I. Wheeler. No. 1,422,508; July 11.
Rim. O. H. Jobski. No. 1,422,715; July 11.
Rim boards, Producing. A. A. Adamson. No. 1,422,648; July 11.
Ring: *See*—
Lamp ring.
Rivets, Device for inserting. J. Schuette. No. 1,422,381; July 11.
Roadway, Portable. A. C. Luetgert and E. H. Melkiejohn. No. 1,422,280; July 11.
Rock drill, Tubular. H. Hundrieser. No. 1,422,361; July 11.
Roofing. J. M. Berdan. No. 1,422,526; July 11.
Roost, Poultry. F. C. Schlinglof. No. 1,422,624; July 11.
Rope tightener. W. L. Witte. No. 1,422,804; July 11.
Rotor spider. J. Burke. No. 1,422,414; July 11.
Rubber articles, Mold adapted for use in vulcanizing. W. F. Clark. No. 1,422,084; July 11.
Rubber articles, Treating. E. C. Taylor. No. 1,422,147; July 11.
Rubber, Composition for treating manufactured. R. B. Martin. No. 1,422,115; July 11.
Rubber-forcing machine. J. W. Gomersall. No. 1,422,561; July 11.
Rubber globe. E. M. Walters. No. 1,422,642; July 11.
Rubber heel. L. Kaplan. No. 1,422,446; July 11.
Rubber or rubberized fabric, Apparatus for vulcanizing articles of. P. J. Knaos. No. 1,422,209; July 11.
Rubber tiling, Making. W. J. Kent. No. 1,422,579; July 11.
Rug-scouring machine. K. C. and J. H. Jones. No. 1,422,445; July 11.
Rules and borders, Machine for making ornamental. M. M. Breit. No. 1,422,532; July 11.
Safety screen. J. L. Bernard. No. 1,422,409; July 11.
Sash locking and balancing mechanism. A. C. Wheelock. No. 1,422,399; July 11.
Saw-filing machine. L. S. Sherwood. No. 1,422,486; July 11.
Saws, Guard for circular. G. E. H. Spiller. No. 1,422,316; July 11.
Sawing natural deposits, Apparatus for. E. B. Starr and H. E. Marsh. No. 1,422,386; July 11.
Scale. H. F. Kluser. No. 1,422,104; July 11.
Scale, Automatic. H. Cameron. No. 1,422,664; July 11.
Scoring and trimming machine. C. C. Gamm. No. 1,422,095; July 11.
Screen: *See*—
Safety screen. Window screen.
Screw driver. F. V. Borick. No. 1,422,411; July 11.
Seesaw. T. E. Jordan. No. 1,422,766; July 11.
Segment gate. T. Becher. No. 1,422,076; July 11.
Separating and classifying apparatus. L. H. Fulley. No. 1,422,092; July 11.
Separating or sorting apparatus. C. J. Lane. No. 1,422,807; July 11.
Separator: *See*—
Grain separator. Ore separator.
Settling and septic tank. E. F. Cook. No. 1,422,674; July 11.
Sewing machines, Folder for. J. E. Chalman. No. 1,422,176; July 11.
Sewing machines, Motor drive for. H. Malmin. No. 1,422,218; July 11.
Sewing machines, Stop motion for shoe-. F. E. Valois. No. 1,422,639; July 11.
Sewing machines, Strip guiding and controlling attachment for. J. C. Ringe. No. 1,422,808; July 11.
Shaft coupling. H. D. Church. No. 1,422,339; July 11.
Shears. G. L. Rogers. No. 1,422,786; July 11.
Sheet-metal plates, Apparatus used in the manufacture of. D. Davies and D. Jones. No. 1,422,085; July 11.
Ship for transporting raw products. H. Greffenius. No. 1,422,354; July 11.
Shoe sole. P. Jones. No. 1,422,716; July 11.
Shoes, Repair tip for. N. D'Andrea. No. 1,422,543; July 11.
Sieve shaker. B. Staukovich. No. 1,422,230; July 11.
Sign and its supports. W. J. Wark. No. 1,422,502; July 11.
Signal: *See*—
Illuminated signal. Traffic signal.
Signal-indicator system. H. C. Eigabroadt. No. 1,422,349; July 11.
Signaling mechanism. C. E. Beach. No. 1,422,523; July 11.
Silencer. W. T. Pearcy. No. 1,422,373; July 11.
Silk, Manufacture of artificial. E. Brosnert. No. 1,422,412; July 11.
Skirt, Athletic. A. Harmon. No. 1,422,441; July 11.
Slack adjuster, Automatic. H. A. Wahlert and J. E. Redford. No. 1,422,490; July 11.
Sled, Motor-driven. F. W. Dembrook. No. 1,422,751; July 11.
Slub catcher. F. Jarry. No. 1,422,271; July 11.
Smelting furnace, Vertical. F. Flechti. No. 1,422,684; July 11.
Smoker's table. J. Watson. No. 1,422,597; July 11.
Snap fasteners, Package for. L. J. Stern. No. 1,422,233; July 11.
Snowplow. E. Clayborne. No. 1,422,417; July 11.
Sodium chromate, Manufacture of chromic oxide and sodium sulphide from. C. J. Head. No. 1,422,763; July 11.
Soldering iron. H. F. Hammond. No. 1,422,357; July 11.

Solid materials with liquids, Method and apparatus for mixing. O. D. Cunningham. No. 1,422,421; July 11.
Sorting machine. A. Van Cott and J. Evans. No. 1,422,800; July 11.
Spark timer and oil pump, Combined. J. McClelland. No. 1,422,725; July 11.
Spinning machines, Attachment for. A. J. Cote and A. Cote. No. 1,422,745; July 11.
Splicing tool. E. J. Williams. No. 1,422,803; July 11.
Spoke-tightening shim. J. D. Tucker. No. 1,422,637; July 11.
Spooling machines, Tension device for. S. Taylor and F. Jarry. No. 1,422,240; July 11.
Spray, Bath. J. A. Mulherin. No. 1,422,291; July 11.
Spring: *See*—
Vehicle spring.
Stain composition. A. Murray. No. 1,422,292; July 11.
Stamp. O. B. Pickering. No. 1,422,474; July 11.
Stamp receiver. E. M. Walsh. No. 1,422,152; July 11.
Stand: *See*—
Railway-switch stand.
Stand and table, Convertible. J. B. Ogden. No. 1,422,613; July 11.
Steam boilers, Self-starting injector for. J. Hall. No. 1,422,199; July 11.
Steam ejector. M. C. A. Leblanc. No. 1,422,582; July 11.
Steam trap. C. H. Atkins. No. 1,422,069; July 11.
Steering mechanism. R. A. Mack. No. 1,422,284; July 11.
Steering wheel. W. L. Tobias. No. 1,422,323; July 11.
Stop motion. F. E. Valois. No. 1,422,640; July 11.
Stove and furnace. J. B. Gohmann. No. 1,422,195; July 11.
Strainer for sugar juices. M. E. Carter. No. 1,422,737; July 11.
Stringed instruments, Ribbon attachment for. J. Richter. No. 1,422,784; July 11.
Stringed instruments, Tensioning peg for. K. Caspari. No. 1,422,738; July 11.
Suction cleaner. J. B. Kirby. No. 1,422,105; July 11.
Sugar, Manufacture of grape. P. W. Allen. No. 1,422,328; July 11.
Sulphonating carbon compounds. A. R. Grob and C. C. Adams. No. 1,422,564; July 11.
Sulphur-burning apparatus. H. D. Wells. No. 1,422,801; July 11.
Swage, Casing. F. H. Hatfield. No. 1,422,762; July 11.
Sweeper, Street. E. K. and P. C. Ward. No. 1,422,501; July 11.
Swimming device. G. G. Allenbaugh. No. 1,422,071; July 11.
Switch: *See*—
Electromagnetic switch.
Multiple switch.
Switching key. L. W. Kelsay. No. 1,422,447; July 11.
Table: *See*—
Convertible stand and table.
Knockdown table.
Smoker's table.
Folding table.
Table, Folding. H. B. Smith. No. 1,422,313; July 11.
Table slide, Extension-. H. N. Smith. No. 1,422,142; July 11.
Tackle, Hoisting. O. J. Boettcher. No. 1,422,174; July 11.
Talking machine. D. J. Hood. No. 1,422,712; July 11.
Talking machines. F. C. Hinckley. No. 1,422,266; July 11.
Talking machines, Record cabinet for. J. B. Ogden. No. 1,422,612; July 11.
Tank: *See*—
Dispensing tank.
Water tank.
Settling and septic tank.
Tank construction. A. A. Kramer. No. 1,422,107; July 11.
Tank, Dispensing. W. H. Opitz. No. 1,422,124; July 11.
Tank filling and discharge fittings, Bung for. J. Darling and W. W. Curry. No. 1,422,342; July 11.
Telemotor. C. A. Helfer. No. 1,422,705; July 11.
Telephone attachment. T. W. Small. No. 1,422,487; July 11.
Terminal clamp, Loop-forming. G. P. Bump. No. 1,422,660; July 11.
Tester. W. P. Cook. No. 1,422,742; July 11.
Textile fibers for spinning, Process of and apparatus for. G. C. Laurency and M. Vigier. No. 1,422,581; July 11.
Thermal cut-out device. G. H. Whittingham. No. 1,422,802; July 11.
Thermocouple. T. G. Coghlan. No. 1,422,672; July 11.
Thread cleaner. W. J. Klots. No. 1,422,106; July 11.
Thread cutter. R. Becker. No. 1,422,407; July 11.
Thread-cutting tool. N. Benoit. No. 1,422,652; July 11.
Thread-milling machine. C. H. Schurr and E. J. Lees. (Reissue.) No. 15,410; July 11.
Thrust bearing. D. E. Lewellen. No. 1,422,585; July 11.
Timber, Method of and apparatus for treating. A. Meyer and P. R. Walsh. No. 1,422,119; July 11.
Time recorder. G. Pullman. No 1,422,477; July 11.
Tinning machines, Feeding mechanism for. D. Buccicone. No. 1,422,535; July 11.
Tire. W. G. Fording. (Reissue.) No. 15,405; July 11.
Tire, Automobile. F. J. Leisse. No. 1,422,723; July 11.
Tire beads, Apparatus for solutioning. T. A. Burns. No. 1,422,083; July 11.
Tire carrier, Spare-. G. H. Forsyth. No. 1,422,094; July 11.
Tire casing. D. Moriarty. No. 1,422,290; July 11.
Tire fabric, Making rubberized. F. A. Krusemark. No. 1,422,451; July 11.
Tire for vehicles, Metal-sheathed pneumatic. G. F. Schriber. No. 1,422,791; July 11.
Tire, Pneumatic. W. McEwen. No. 1,422,113; July 11.
Tire, Two-in-one rubber. W. O'Connell. No. 1,422,123; July 11.
Tires, Cap gauge for pneumatic. F. A. and J. L. Conrad. No. 1,422,256; July 11.
Tires, Guard chain for pneumatic. F. L. Merkle. No. 1,422,117; July 11.
Tires, Making. W. B. Burke. No. 1,422,537; July 11.
Tires, Pressure-signaling device for. W. F. Arndt. No. 1,422,068; July 11.
Tires, Repairing patch for pneumatic. A. Thiele. No. 1,422,495; July 11.
Tongs for grasping plates and dishes, Automatically clamping. R. A. Jeammet-Leyrit. No. 1,422,215; July 11.
Tool. W. H. Cameron. No. 1,422,538; July 11.
Tool-dropping machine, Automatic. C. R. Boyce. No. 1,422,531; July 11.
Tool handle. W. H. Stevens. No. 1,422,887; July 11.
Tool holder. J. C. Alquist. No. 1,422,247; July 11.
Tool holder. G. H. Stahl. No. 1,422,491; July 11.
Toy. S. S. K. Biroscak. No. 1,422,334; July 11.
Toy. L. Martocci-Pisculli. No. 1,422,775; July 11.
Toy. A. C. and H. E. Schloth. No. 1,422,789; July 11.
Toy machine gun. J. B. Van Doren. No. 1,422,392; July 11.
Toy, Sparking. L. V. Aronson. No. 1,422,075; July 11.
Track brace. W. Dunn. No. 1,422,425; July 11.
Tracks in place, Means for securing overhead. E. J. G. Phillips. No. 1,422,473; July 11.
Traction coupling. J. C. Reuse. No. 1,422,129; July 11.
Tractor. L. M. Gardiner. No. 1,422,558; July 11.
Tractor. H. C. Reid. No. 1,422,375; July 11.
Tractor cleat. C. Robnett. No. 1,422,377; July 11.
Tractor having four steering driving wheels. E. Schneider. No. 1,422,380; July 11.
Tractor, Motor. E. Gribbler. No. 1,422,438; July 11.
Tractors for agricultural purposes, Attachment for converting motor-driven chassis into. J. Hodgson. No. 1,422,709; July 11.
Traffic signal. J. D. Coward. No. 1,422,179; July 11.
Traffic signal. W. A. Koch. No. 1,422,210; July 11.
Trammel. W. Douglas. No. 1,422,345; July 11.
Transmission mechanism. W. I. Wheeler. No. 1,422,510; July 11.
Trap: *See*—
Animal trap.
Steam trap.
Tree holder. G. B. Powers. No. 1,422,304; July 11.
Truck, Disk. E. E. Johannes and R. D. Dunkerton. No. 1,422,362; July 11.
Truck, Hand. C. O. Carlson. No. 1,422,254; July 11.
Truck, Portable. M. M. Wood. No. 1,422,730; July 11.
Truck, Railway. S. A. Mathers. No. 1,422,116; July 11.
Truck side frame. G. A. Anderson. No. 1,422,074; July 11.
Trucks, Dumping mechanism for. J. A. Beebe. No. 1,422,077; July 11.
Trucks, Loading and unloading means and portable body for. A. F. Callison. No. 1,422,663; July 11.
Truss pad. H. A. Warren. No. 1,422,153; July 11.
Tube-closing machine. I. W. Weppio. No. 1,422,644; July 11.
Tubular elements, Expansible attaching means for connecting. A. J. Schultz. No. 1,422,227; July 11.
Turbine, Reversible fluid-pressure. J. W. McGovern. No. 1,422,458; July 11.
Type-casting machines, Matrix and distributing apparatus for. A. Becker. No. 1,422,333; July 11.
Typewriter keys, Cover for. O. A. Hokason. No. 1,422,267; July 11.
Typewriters of any make, Apparatus for inking ribbons for. O. Frankenbüsch. No. 1,422,757; July 11.
Typewriting machine. R. Fries. No. 1,422,433; July 11.
Typewriting machine. J. Phelps. No. 1,422,617; July 11.
Underframe and draft-arm connection. G. N. Goodin. No. 1,422,562; July 11.
Undergarment. C. R. McFarland. No. 1,422,281; July 11.
Undergarment. E. B. Mower. No. 1,422,604; July 11.
Underreamer. J. Swan, Jr. No. 1,422,236; July 11.
Unloader, Multistage. G. M. Richards. No. 1,422,376; July 11.
Utensil, Cooking. B. L. Wever. No. 1,422,156; July 11.
Utensil, Electrically-heated. J. F. Lamb. No. 1,422,721; July 11.
Valve. R. P. Cooley. No. 1,422,178; July 11.
Valve and piston, Combined. F. Stickel. No. 1,422,234; July 11.
Valve for compressors, Clearance. W. Prellwitz. No. 1,422,476; July 11.
Valve for steam engines. G. Groenewegen. No. 1,422,437; July 11.
Valve lock. J. Cathrill. No. 1,422,336; July 11.
Valve, Piston globe. E. C. Davies. No. 1,422,343; July 11.
Vaults and similar purposes, Plate for use in lining burglar-proof. F. J. Napolitan. No. 1,422,295; July 11.
Vehicle, Child's. N. Chapdelaine. (Reissue.) No. 15,404; July 11.
Vehicle curtain fastener. C. S. Applas. No. 1,422,513; July 11.
Vehicle hoist device, Motor-. F. H. Dewey. No. 1,422,344; July 11.
Vehicle, Motor. F. J. Druar. No. 1,422,346; July 11.
Vehicle spring. H. B. Dipworth. No. 1,422,755; July 11.

Vehicle suspension. R. Guillery. No. 1,422,567; July 11.
Vehicle suspension. B. Liebowitz. Nos. 1,422,586–7; July 11.
Vehicle wheel. N. M. Robinson. No. 1,422,479; July 11.
Vehicle wheels, Automobile sand and mud dog for attaching to. D. S. Blackwell. No. 1,422,078; July 11.
Vehicles, Auxiliary propelling means for motor. F. B. Snyder. No. 1,422,795; July 11.
Vehicles, Coupling member for. H. Eckertz. No. 1,422,189; July 11.
Vehicles, Differential driving mechanism for motor. J. W. White. No. 1,422,401; July 11.
Vehicles, Direction indicator for motor. F. M. Athons. No. 1,422,330; July 11.
Vehicles, Radiator for motor. C. F. Spery. No. 1,422,315; July 11.
Vehicles, Spring steering fork for wheeled. C. E. Cochran. No. 1,422,671; July 11.
Vehicles, Theft signal for motor. L. R. Zepka. No. 1,422,404; July 11.
Velocipede. C. W. Bennett. Nos. 1,422,171–2; July 11.
Veterinary surgical instrument. O. Stader. No. 1,422,490; July 11.
Vignetting tool. W. J. McCarthy. No. 1,422,773; July 11.
Vises, Handle for blacksmiths'. G. Rees. No. 1,422,478; July 11.
Wagon, Motor tip. E. R. Walker. No. 1,422,500; July 11.
Washer-placing apparatus. E. E. Winkley. No. 1,422,159; July 11.
Washing machine. H. C. Doman. No. 1,422,547; July 11.
Water heater. R. W. Averitt. No. 1,422,521; July 11.
Water power apparatus. J. G. Hacking. No. 1,422,700; July 11.
Water tank. E. Wood. No. 1,422,325; July 11.
Weather strip, Floating. J. W. Hammes. No. 1,422,569; July 11.
Weft supply and placing mechanism. C. Lea. No. 1,422,722; July 11.
Weighing mechanism. S. W. Shuford. No. 1,422,141; July 11.
Wheel: *See*—
Advertising wheel.
Metal wheel.
Gear wheel.
Steering wheel.
Grinding wheel.
Vehicle wheel.
Wheel. G. G. Barry. No. 1,422,167; July 11.
Wheel. F. B. Miller. No. 1,422,597; July 11.
Wheel-drive differential. Positive both- A. B. Sowden. No. 1,422,144; July 11.
Wheel rim, Demountable vehicle. H. E. Butcher. No. 1,422,661; July 11.
Wheel-securing device. E. B. Grace. No. 1,422,697; July 11.
Wheels, Rim construction for pressed-steel. D. H. Bellamore and T. I. S. Boak. No. 1,422,408; July 11.
Winding drums, Electric switch and stop for. C. F. Cuno. No. 1,422,181; July 11.
Winding drums, Electric switch for. C. H. Cuno. No. 1,422,180; July 11.
Windmill. R. Morris. No. 1,422,602; July 11.
Window adjuster. F. Fournier. No. 1,422,552; July 11.
Window screen. I. W. Cherry. No. 1,422,539; July 11.
Windows, Stay for casement. D. Donald. No. 1,422,680; July 11.
Wire-bending machine. P. Liva. No. 1,422,455; July 11.
Wire-fence fastener. V. Petersen. No. 1,422,127; July 11.
Wire fencing, Post for. C. Parker. No. 1,422,301; July 11.
Wire-rope machine. A. E. Anderson. No. 1,422,073; July 11.
Wire-stitching machine. G. T. Buckham and J. I. Nasmith. No. 1,422,081; July 11.
Work holder. A. Dameron. No. 1,422,749; July 11.
Wrench: *See*—
Combination wrench.
Ratchet wrench.
Pipe wrench.
Socket wrench.
Wrench. N. W. Graham. No. 1,422,563; July 11.
Wrench. B. W. Hanle. No. 1,422,760; July 11.
Wrench A. A. Prevost. No. 1,422,621; July 11.
Wrench. O. M. White and W. C. McCullough. No. 1,422,402; July 11.
Wrench, Combination. E. W. Funk. No. 1,422,689; July 11.
Wrench, Combined. G. T. Parsley. No. 1,422,471; July 11.
Wrench, Socket. W. A. Abegg. No. 1,422,067; July 11.

ALPHABETICAL LIST OF DESIGNS.

Badge, button, charm, emblem, pin, or similar article. T. C. Katke. No. 61,197; July 11.
Badge, pin, button, or similar article of manufacture. W. L. Mann. No. 61,204; July 11.
Bottle. C. Johnstone. No. 61,196; July 11.
Clock, picture, and mirror frame, Combination. J. Urbanek. No. 61,217; July 11.
Doll, Pig. I. Kerby. No. 61,198; July 11.
Doll. A. Norquist. No. 61,206; July 11.
Doll. C. O. Oliver. No. 61,207; July 11.
Emblem, sign, badge, button, or similar article. C. A. Vane. No. 61,218; July 11.
Emblem, badge, brooch, pin, cuff button, watch fob, or similar article. C. B. Dyer. No. 61,191; July 11.
Fabric. W. Dowling. No. 61,190; July 11.
Fabric, Dress. A. Cabalka. No. 61,186; July 11.
Garment, Outer. K. L. Powell. No. 61,212; July 11.
Gun, Grease. D. F. Fesler. No. 61,192; July 11.
Lace. E. A. Davis. No. 61,189; July 11.
Lace. J. Langenegger. No. 61,200; July 11.
Lace. S. H. Page. No. 61,211; July 11.
Light diffuser. O. M. Otte. Nos. 61,209–10; July 11.
Light, Parking. H. H. Taylor. No. 61,215; July 11.
Lighting-fixture arm. L. Levine. No. 61,201; July 11.
Lighting fixtures, Plate for wall brackets for. T. Dahl. No. 61,188; July 11.
Lighting fixtures, Wall bracket for. T. Dahl. No. 61,187; July 11.
Lighting-fixture globe. L. B. London. No. 61,202; July 11.
Mirrorscope, parking light, and direction indicator, Combination. W. P. Hammond. No. 61,195; July 11.
Paper, Safety. C. Kres. No. 61,199; July 11.
Paper, Safety. F. Meyer. No. 61,205; July 11.
Phonograph and lamp stand, Combined. S. Trustman. No. 61,216; July 11.
Phonograph cabinet. L. MacLachlan. No. 61,203; July 11.
Plaque. H. W. Whipple. No. 61,219; July 11.
Ring. W. G. Ginder. No. 61,194; July 11.
Ring, Finger. D. Ornstein. No. 61,208; July 11.
Toy. A. H. Shenk. No. 61,214; July 11.
Watch holder, Sautoir. G. Riexinger. No. 61,213; July 11.
Writing pad and advertising device or similar article, Combined. R. M. Gaffney. No. 61,193; July 11.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Adding machine and adding-machine attachments. Type-Adder Mfg. Corp. No. 156,768; July 11.
Augers, drills, chisels, bits, etc. Forest City Bit & Tool Co. No. 156,673; July 11.
Automotive parts. Parts Service Company. No. 156,728; July 11.
Bakeries, Certain machinery for. Champion Machinery Co. No. 156,641; July 11.
Battery and electric lighting plants, switchboards. Worthington Pump and Machinery Corporation. No. 156,790; July 11.
Battery boxes. Silurium Manufacturing Company. No. 156,754; July 11.
Batteries, Storage. Simmons Hardware Company. No. 156,755; July 11.
Bearings for automobiles, etc., Automatic adjusters for. J. F. Rose. No. 156,744; July 11.
Beer, Preservative for. A. Boake, Roberts & Co. No. 21,762; renewed Sept. 27, 1922.
Belting, Woven machine. F. Raddaway & Co. No. 21,846; renewed June 21, 1922.
Beverages and sirups for making same. Remer-Dell Products Corporation. No. 156,662; July 11.
Blankets, wool in piece for making bath robes, blankets, and shawls, etc. Pendleton Woolen Mills. No. 156,730; July 11.
Books, Gift record. R. M. Place. No. 156,781; July 11.
Brushes, Artists'. M. Grumbacher. Nos. 156,801-3; July 11.
Buckles made of precious metal or imitation precious metal, Belt, shoe, and clothing. Wightman & Hough Company. No. 156,786; July 11.
Candies. W. C. Nevin Candy Co. No. 156,719; July 11.
Candies. S. W. Watson. No. 156,777; July 11.
Candies and chocolates. W. H. Luden. No. 156,701; July 11.
Candies and confections. J. D. Stem. No. 156,760; July 11.
Candies, Chocolate-coated. De Klyn Candy Co. No. 156,655; July 11.
Candy. W. T. Grant Company. No. 156,676; July 11.
Candy. C. I. Harraden. No. 156,681; July 11.
Candy. Licorice Products Company. No. 156,699; July 11.
Candy and caramels. Paul F. Beich Company. No. 156,622; July 11.
Candy, Chocolate. Theodore Bros. Chocolate Co. No. 156,766; July 11.
Candy, Coconut. Millen Candy Co. No. 156,708; July 11.
Canned cherries, crushed pineapple, honey, etc. Mi-O-Mi Inc. No. 156,712; July 11.
Canned fruits and salmon and sardines. H. J. Baker & Bro. No. 156,618; July 11.
Canned fruits and vegetables. Virden Packing Company. No. 156,772; July 11.
Canned fruits and canned vegetables. Virden Packing Company. No. 156,773; July 11.
Castings, Malleable-iron. Iowa Malleable Iron Company. No. 156,690; July 11.
Cement. Burham, Brick, Lime and Cement Company. No. 20,950; renewed Apr. 5, 1922.
Chocolate-coated marshmallow and caramel bar candy. Nutrine Mfg. Co. No. 156,721; July 11.
Chocolate, cocoa, chocolate candy, and other candies. Beacon Chocolate Company. No. 156,620; July 11.
Chocolate, Sweet and milk. Hershey Chocolate Company. No. 156,688; July 11.
Cigar cutters. Goldsmith, Stern and Co. No. 156,675; July 11.
Cigars, cigarettes, smoking, chewing, and plug tobacco. Weideman Company. No. 156,776; July 11.
Cigars, smoking tobacco, and cigarettes. Thompson & Company. No. 156,619; July 11.
Circuit-controlling and pressure-controlling devices and mercury tubes, Certain. Federal Gauge Company. No. 156,669; July 11.
Clamps, Rope. American Hoist & Derrick Co. No. 156,609; July 11.
Clocks, alarm watches, watches, Alarm. Kienzle Uhrenfabriken Kommanditgesellschaft. No. 156,696; July 11.
Clothes-washing machine. B. S. Burlingame. No. 156,639; July 11.
Coffee. Jewel Tea Company. No. 156,692; July 11.
Coffee, St. Louis Coffee & Spice Mills. No. 156,764; July 11.
Coffee. Weppner-Weil Company. No. 156,780; July 11.
Coffee, food-flavoring extract, tea. John Seowcroft & Sons Company. No. 156,749; July 11.
Computing machines. Yard-O-Meter Corporation. No. 156,791; July 11.
Concrete mixers, diaphragm pumps, hoists, backfillers, engines. Construction Machinery Company. No. 156,650; July 11.
Corsets. American Lady Corset Co. No. 156,793; July 11.
Corsets and brassières. F. E. Lund. No. 156,702; July 11.
Cotton piece goods. J. Grossman & Co. No. 156,800; July 11.
Cotton piece goods. Victor Monaghan Company. No. 156,822; July 11.
Cranes, Electric. Milwaukee Electric Crane & Mfg. Co. No. 156,710; July 11.
Crash, towels, and toweling. West Point Manufacturing Company. No. 156,825; July 11.
Cutlery, Articles of. Societe Generale de Coutellerie & Orfevrerie. Nos. 156,756-7; July 11.
Dates, Fresh. Van Dyk and Reeves. No. 156,771; July 11.
Dental supplies and appliances. L. D. Caulk Company. No. 156,640; July 11.
Egg, meringue powder, pie filling, Dried. Economy Food Products Company. No. 156,660; July 11.
Electric fixtures. Hemco Electric Manufacturing Company. Nos. 156,684-5; July 18.
Electric-lighting fixtures. G. R. Ainsworth. No. 156,807; July 11.
Electric motors and parts thereof, short circuiters, etc. Master Electric Company. No. 156,704; July 11.
Electric power-generating units. Lincoln Light Corporation. No. 156,700; July 11.
Electric sockets. M. Propp Co. No. 156,737; July 11.
Electric spark energizer. B. Shapleigh. No. 156,624; July 11.
Electrical apparatus. Dayton Pump & Manufacturing Company. No. 156,797; July 11.
Electrical apparatus, Certain. J. A. Crabtree & Co. No. 156,652; July 11.
Electrical apparatus, Certain. John Firth & Co. No. 156,671; July 11.
Electrical apparatus, Certain. Metropolitan-Vickers Electrical Company Ltd. No. 156,706; July 11.
Electrical apparatus, Certain. S. Schmuckler & Son. No. 156,745; July 11.
Electrical lighting fixtures and supplies. J. Rabinovitz. No. 156,740; July 11.
Engines, Explosive. Yellow Jacket Manufacturing Company. No. 156,702; July 11.
Engines, Ignition timers for explosion. Anderson Company. No. 156,613; July 11.
Engines, Internal-combustion. Fox Motor Car Company. No. 156,674; July 11.
Engines, Vapor-mixing device for internal-combustion. E. C. Mettler Co. No. 156,707; July 11.
Fans, Centrifugal. B. F. Sturtevant Company. No. 156,762; July 11.
Fats, Cooking. Procter and Gamble Company. No. 156,736; July 11.
Finger rings. M. Bauman. No. 156,619; July 11.
Fire brick, furnace and baffle tiles, etc. W. E. Mushet. Nos. 156,715-6; July 11.
Fruits, Citrus. Chas. C. Oyler & Son. No. 156,725; July 11.
Fudge body covered first by marshmallow and then icing, Bar containing a. Curtiss Candy Co. No. 156,653; July 11.
Game. A. R. Hager. No. 156,680; July 11.
Gauges, etc., Liquid. C. M. Larson. No. 156,698; July 11.
Gears. Merkle-Korff Gear Co. No. 156,705; July 11.
Gum, Chewing. Shelby Supply and Manufacturing Company. No. 156,753; July 11.
Gum, Chewing. Pulver Company. No. 156,738; July 11.
Hair nets, Sanitary human. National Commodities Co. No. 156,717; July 11.
Hams, bacon, and lard. Patrick-Young Co. No. 156,729; July 11.
Harness, saddles, bridles, etc. Schoellkopf Co. No. 156,746; July 11.
Hat linings, Ready-made. L. J. Schiller. No. 156,812; July 11.
Hats, Ladies'. R. Racille. No. 156,810; July 11.
Hosiery, underwear, sweaters, overshirts. Cohen & Ettenson. No. 156,649; July 11.
Hosiery, underwear, wristlets, neckties, sweaters, etc. H. J. Seltzer. No. 156,813; July 11.
Ice cream. Hendler Creamery Company, The. Nos. 156,686-7; July 11.
Ice cream. Elite Confectionery Co. No. 156,665; July 11.
Inks, Writing. H. Stolser. No. 156,761; July 11.
Insulating tape, Electric. Diamond Hoftast Rubber Co. No. 156,657; July 11.
Jam, jelly, fruit preserves, conserves. Welch Grape Juice Company. No. 156,779; July 11.
Jellies, fruit preserves, conserves, and canned fruit. I. Graves. Nos. 156,677-8; July 11.
Jewelry. Ovington Bros. Company. No. 156,626; July 11.
Jewelry. William A. Waters Company. No. 156,776; July 11.
Jewelry, Certain. Abel Bros. & Co. No. 156,606; July 11.
Jewelry, Certain named. Katz & Ogush, Inc. No. 156,695; July 11.

Knitting machines, Warp-. National Knitting Machine Co. No. 156,718; July 11.
Knit underwear. United Knitting Works Company Limited. No. 22,105; renewed Dec. 6, 1922.
Lamps and their parts, Electric incandescent. Osram G. m. b. H. Kommanditgesellschaft. No. 156,724; July 11.
Lamps, Electric gas-filled. Osram G. m. b. H. Kommanditgesellschaft. No. 156,723; July 11.
Lamps, Electric vehicle. Indiana Lamp Company. No. 156,689; July 11.
Laundry appliances and machines, Certain. American Laundry Machinery Company. No. 156,610; July 11.
Leather cut stock strips, Sole-. S. D. Rosenfeld. No. 156,816; July 11.
Liquid, piston, etc., meters, disk counters. Worthington Pump and Machinery Corporation. Nos. 156,788–9; July 11.
Lightning arresters. E. A. Everett. No. 156,667; July 11.
Lime, Portland cement, and fire clay, Hydrated. Hatmaker & Place. No. 156,683; July 11.
Load binders. E. C. Stacy. No. 156,759; July 11.
Macaroni. Bragno & Mustari. No. 156,634; July 11.
Machinery wheels and gears. American Steel Foundries. No. 156,612; July 11.
Malt extract. Blue Bird Malt Co. No. 156,625; July 11.
Molasses. D. B. Scully Syrup Company. No. 156,750; July 11.
Musical instruments and parts thereof, Stringed. E. W. Plate. No. 156,732; July 11.
Musical instruments, Finished strings for stringed. H. A. Weyman & Sons. No. 156,782; July 11.
Musical instruments and supplies, Certain. D. L. Whittle Music Company. No. 156,784; July 11.
Mustard, peanut butter, vinegar, Prepared. Jackson Company. No. 156,691; July 11.
Necklaces, Bead. Mission Bead Company. No. 156,713; July 11.
Nuts, Internally-salted. J. Finn, Jr. No. 156,670; July 11.
Oils, Edible vegetable cotton-seed. American Cotton Oil Company. No. 156,608; July 11.
Oil-mill machinery. Buckeye Iron and Brass Works. No. 156,637; July 11.
Oil, Olive. C. Buonocore & Son. No. 156,638; July 11.
Overalls. S. & S. Shirt Company. No. 156,814; July 11.
Packing case, Built-up. Utility Manufacturing Company. No. 156,820; July 11.
Paints and paint enamels, Ready-mixed. Voltax Company. No. 156,774; July 11.
Paper, announcement cards, and mailing envelopes, Wedding. American Writing Paper Company. No. 156,794; July 11.
Paper for printing, lithographing, pen and ink, etc., Bond. J. W. Butler Paper Company. No. 156,796; July 11.
Paper, Gummed. Ideal Coated Paper Company. No. 156,804; July 11.
Paper, Toilet. Linton & Scott. No. 156,748; July 11.
Paper, Toilet. White-Washburne Company. No. 156,783; July 11.
Pattern outfits, bevels, calipers, etc. Fairbanks Co. No. 156,668; July 11.
Pearls and necklaces, made of same, Artificial. R. H. Bodman. No. 156,629; July 11.
Pearls, Imitation. New England Glass Works. No. 156,720; July 11.
Pearls, necklaces, and clasps. F. M. Botelho. No. 156,632; July 11.
Pens and parts thereof, Fountain. Wahl Company. No. 156,823; July 11.
Phonographs. Thomas A. Edison, Incorporated. Nos. 156,661–2; July 11.
Phonographs. J. & C. Fischer. No. 156,672; July 11.
Phonographs and phonograph records. Brunswick-Balke-Collender Company. No. 156,636; July 11.
Phonograph records. Emerson Phonograph Company. No. 156,666; July 11.
Phonograph records. Plaza Music Company. No. 156,733; July 11.
Phonographs, phonograph records, player and manual pianos and organs, and player rolls. Pace Phonograph Corporation. No. 156,726; July 11.
Pianos. C. C. and E. E. Conway and T. P. Brown, trustees, trading as Hallet & Davis Piano Co. No. 156,651; July 11.
Pianos, player pianos, electrically-operated pianos. Spector & Son Piano Co. No. 156,758; July 11.
Piano trapwork, wire, and pedals. Widney Company. No. 156,785; July 11.
Piece goods of silk, wool, linen, cotton, and China grass. Bianchini, Férier. No. 156,795; July 11.
Pile fabric in the piece. Sidney Blumenthal & Co., Inc. No. 156,626; July 11.
Pipe machines, Electric. Robbins, Gamwell & Company. No. 156,742; July 11.
Pistons for internal-combustion engines. Clark-Turner Piston Company. No. 156,645; July 11.
Plates and connections for electric-lighting fixtures, etc., Wall and ceiling. Electric Outlet Company. No. 156,663; July 11.
Plows. Deere & Company. No. 20,974; renewed Apr. 12, 1922.
Plugs, Electrical, attachment, and switch. Beaver Mach. & Tool Co. No. 156,621; July 11.
Printing machines and parts of same, paper-cutting machines, etc. Omnigraph Company. No. 156,722; July 11.
Printing machines and parts thereof. Printator, G. m. b. H. No. 156,735; July 11.
Pumps for rotating screens for removing solids from industrial and municipal waste. Dorr Company. No. 156,659; July 11.
Radio apparatus, Certain. F. A. D. Andrea. No. 156,615; July 11.
Radio mechanism, Certain appliances for. American Radio Sales and Service Company. No. 156,611; July 11.
Radio mechanism, Certain. Westinghouse Electric & Manufacturing Company. No. 156,781; July 11.
Radiosignaling, Apparatus for. Jewett Manufacturing Corporation. No. 156,693; July 11.
Rings, Finger. Bock-Lewis Co. No. 156,628; July 11.
Rings, Finger. M. Beiger & Son. No. 156,752; July 11.
Rings, Finger. Uncas Manufacturing Co. No. 156,769; July 11.
Scissors and shears. Acme Shear Company. No. 156,605; July 11.
Shirts, Dress and negligee. Rainbow Shirt Corporation. No. 156,741; July 11.
Shirts, Dress and negligee. Roggen Bros., & Co. No. 156,811; July 11.
Shirts, Negligee. Jackson & Gutman Company. No. 156,806; July 11.
Shirts with reversible cuffs. Venus Manufacturing Company. No. 156,821; July 11.
Shoe laces, Mercerized. W. C. Johnson. No. 156,694; July 11.
Shoes, Ladies' and misses' leather. Kohn-Fechheimer. No. 156,806; July 11.
Silk and satin piece goods. James McCreery & Company. No. 156,808; July 11.
Silk piece goods. Edward Bloom Co. Inc. No. 156,798; July 11.
Spark plug. Brown Bag Filling Machine Company. No. 156,635; July 11.
Spark plugs. Dayton Ignition Company. No. 156,654; July 11.
Spark timers for internal-combustion engines. Berg Bros. Mfg. Company. No. 156,623; July 11.
Stones, Electric. Sterolectric Company. No. 156,763; July 11.
Storage batteries. United Auto Electric Service, Inc. No. 156,770; July 11.
Suits, Tailored. L. R. Dolby Co. No. 156,658; July 11.
Sweepers, Electric suction. Clements Mfg. Co. No. 156,646; July 11.
Switches and circuit interrupters, Starting. Miniature Breaker Co. No. 156,711; July 11.
Switches, lightning arresters, choke coils, Disconnecting. Electrical Engineers Equipment Company. No. 156,664; July 11.
Talking machines and music boxes. Lyon & Healy. No. 156,703; July 11.
Talking-machine needles. W. E. Morrow. No. 156,714; July 11.
Talking machines, phonographs, and music boxes. Sonora, Inc. No. 156,817; July 11.
Telephonic apparatus. G. Boissonnault Company. Nos. 156,630–1; July 11.
Timers for internal-combustion engines. Chicago Timer Factory Incorporated. Nos. 156,642–3; July 11.
Tire pumps and valve grinders. Autoquip Mfg. Co. No. 156,617; July 11.
Tires and tubes for vehicles, Rubber or rubber and fabric. Brunswick-Balke-Collender Company. No. 156,827; July 11.
Tires, inner tubes for tires, tire liners, and tire patches, Automobile. Climax Rubber Co. No. 156,647; July 11.
Title and identification certificate. Security Certificate Company. No. 156,751; July 11.
Tomato catchup, chili sauce, and canned pork and beans. Greenebaum Bros. Inc. No. 156,679; July 11.
Tomato sauce, canned olives, cotton-seed salad oil. Bragno & Mustari. No. 156,633; July 11.
Tools and machinery, Certain. Millers Falls Company. No. 156,709; July 11.
Toys, Certain. Rogers Construction Company. No. 156,743; July 11.
Trolley guards. W. K. Page. No. 156,727; July 11.
Trousers, Double-seated. S. Shapiro Company. No. 156,815; July 11.
Trousers, overcoats, and suits. L. M. Furman. No. 156,799; July 11.
Typewriter ribbons, carbon paper, and certain inks. Waters & Waters Mfg. Co. No. 156,824; July 11.
Vegetable slicers and choppers. E. S. Anderson Company. No. 156,614; July 11.
Vinegar. Powel Corporation. No. 156,734; July 11.
Vinegars, salad dressing, honey, etc. Trinity Grocery Co. No. 156,767; July 11.
Violins and similar musical instruments, Strings for. William Volt Co. No. 156,787; July 11.
Washboilers, Household. Atlas Tinware Company. No. 156,616; July 11.
Washing machines and clothes wringers, Laundry. The Coffield Washer Co. No. 156,648; July 11.
Washing machines and wringers, Laundry. Clark, Cadle, Harmon Corp. No. 156,644; July 11.

Washing machines, Laundry. Detroit Washing Machine Corporation. No. 156,656; July 11.
Washing machines, Laundry. Landers, Frary & Clark. No. 156,697; July 11.
Washing machines, Laundry. Sunny Line Appliances, Inc. No. 156,765; July 11.
Watches and watch movements, dials, and cases. Adolphe Schwob, Inc. No. 156,747; July 11.
Water purification, chlorine-control apparatus, and certain other apparatus, Chemical-control equipment for. Wallace & Tiernan Co. No. 156,775; July 11.
Weaners, Stock. Purcell Company. No. 156,739; July 11.
Windshield sunshade. B. H. Pugh. No. 156,809; July 11.
Woolen piece goods. Strong, Hewat & Co. No. 156,818; July 11.
Worsted, Knitting. Lauerman Bros. Co. Inc. No. 156,807; July 11.

ALPHABETICAL LIST OF LABELS.

"Bates." (For Hops.) A. J. Ray & Son, Inc. No. 24,708; July 11.
"Beckwith." (For Fancy Kadota Figs.) Beckwith Co. No. 24,695; July 11.
"'Best-Ever' Sponge Ball." (For a Rubber Ball with Rubber Sponge Center.) Hochschild Corporation. No. 24,699; July 11.
"Crown." (For Salmon.) Macleay Estate Co. No. 24,702; July 11.
"De Luxe Tu-Tone." (For Powder Puffs.) Hochschild Corporation. No. 24,698; July 11.
"Double Eagle." (For Fresh Pears.) L. B. Dutton. No. 24,697; July 11.
"Flor De Anson." (For Cigars, Cigarettes, and Tobacco.) T. J. Huening. No. 24,700; July 11.
"Grizzly Grip." (For White Rubber Patch.) 20th Century Tire Protector Co. No. 24,710; July 11.
"Hygeno." (For a Whole-Wheat Flour.) Albers Bros. Milling Co. No. 24,694; July 11.
"Kelcomeal." (For a Food.) Kehlor Flour Mills Co. No. 24,701; July 11.
"Lightnin." (For an Insecticide.) Charleston Drug Mfg. Co. No. 24,696; July 11.
"Marshel's Blue Fountain Pen Ink." (For Packages of Blue Ink.) B. M. Marshel. No. 24,704; July 11.
"Mt. Hood." (For Hops.) A. J. Ray & Son, Inc. No. 24,709; July 11.
"Prims." (For Barley-Malt Extract.) Primalt Products Co. No. 24,706; July 11.
"Prima." (For Ginger Ale.) Primalt Products Co. No. 24,707; July 11.
"Real-Lager." (For a Cereal Beverage.) Oertel Co. Incorporated. No. 24,705; July 11.
"Royal." (For Salmon.) Macleay Estate Co. No. 24,703; July 11.

ALPHABETICAL LIST OF PRINTS.

"Hose Mulconroy." (For Advertising Purposes for Hose for Conveying Steam, Water, Air, Oil, Gas, Gasoline, Chemicals, Paint, Sand, Etc.) Mulconroy Company, Inc. No. 6,209; July 11.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Antiseptic and germicidal solution. Langley & Michaels Co. No. 159,710; July 11.
Antiseptic solution. Henry S. Wampole Company. No. 158,964; July 11.
Antiseptic solution for use in the oral and nasal passages, Alkaline. Owl Drug Company. No. 160,964; July 11.
Apples, Fresh. White Bluffs Warehouse Co. No. 141,049; July 11.
Aprons. R. H. Macy & Co. No. 148,290; July 11.
Automobile springs. Cincinnati Horse Shoe & Iron Co. No. 163,671; July 11.
Balls, Golf. Dunlop Tire and Rubber Corp. of America. No. 156,153; July 11.
Bandeaux and brassières. Vanity Brassiere Company. No. 156,557; July 11.
Bath robes, Pullman and beach and house robes. M. Auerbach. No. 158,031; July 11.
Bats, Baseball. Collierville Bat and Dimension Stock Company. No. 162,381; July 11.
Batteries, Storage. J. S. Neldich. No. 158,054; July 11.
Belts, belting, and elastic. Goverunform Corporation. No. 155,682; July 11.
Beverage and sirups for making same. O. R. Pieper Co. No. 164,259; July 11.
Beverage, Maltless carbonated coffee. Anheuser-Busch, Incorporated. No. 150,211; July 11.
Beverages and sirups used in preparation of same. Primalt Products Co. No. 164,949; July 11.
Beverages, more specifically soda water. Grone & Co. No. 129,545; July 11.
Beverages sold as soft drinks. G. Tragarakis. No. 164,525; July 11.
Beverages sold as soft drinks and sirups for making the same. Porter Bros. No. 162,888; July 11.
Blacking, patent-leather and metal polishes, etc. Paton, Calvert & Co. Limited. No. 146,387; July 11.
Blankets, blanket fabrics in the piece, cotton piece goods, ribbons, robes, rugs, etc. Esmond Mills. No. 155,673; July 11.
Blankets, comfortables, traveling rugs, baby bags, etc. Beacon Manufacturing Company. No. 141,753; July 11.
Blue or bluing, Laundry. Scherer, Burnell & Scherer, Inc. No. 129,573; July 11.
Brake lining. Bettes & Ebsen. No. 163,775; July 11.
Brake lining. Manhattan Rubber Mfg. Co. No. 160,891; July 11.
Brushes. John L. Whiting-J. J. Adams Company. Nos. 148,409–12; July 11.
Brushes. John L. Whiting-J. J. Adams Company. No. 157,506; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 138,438–46; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 139,766–7; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 139,769–76; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 139,825–6; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. No. 139,828; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. No. 139,832; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 139,834–5; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 140,154–5; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 140,228–31; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. No. 140,235; July 11.
Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 140,421–2; July 11.
Bumpers. Badger Manufacturing Corporation. No. 163,774; July 11.
Butter. Mott & Wood Co. No. 153,308; July 11.
Butter, condensed and evaporated milk, and ice cream. Dairymen's League Co-operative Association, Inc. No. 161,529; July 11.
Cakes, cookies, and fried cakes. Grennan Cake Corporation. No. 154,587; July 11.
Candy. New England Confectionery Company. No. 154,837; July 11.
Candy. Nunnally Company. No. 153,255; July 11.
Candy. J. H. Overhauser. No. 150,927; July 11.
Canned fruits and vegetables, rolled oats, olives, peanut butter, spices, etc. May Bros. Co. No. 154,883; July 11.
Cards, Push. S. Gottlieb. No. 162,108; July 11.
Chemical preparation. E. H. Leslie. No. 158,720; July 11.
China, earthenware, pottery, stoneware, etc. Geo. V. Millar Co. No. 162,940; July 11.
Chocolate, cocoa, and cacao. Naamlooze Vennootschap tot Exploitatie van Cacao-en Chocoladfabrieken Maatschappij A. Driessen. No. 155,415; July 11.
Cigarettes. L. Mosquera. No. 158,685; July 11.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cigars. John C. Guy Company Incorporated. No. 144,023; July 11.
Cigars. R. Landman. No. 159,270; July 11.
Cigars, little cigars, cigarettes, and smoking tobacco. Alfred Dunhill of London. Nos. 163,037–8; July 11.
Clay, Modeling. Binney & Smith Company. No. 159,138; July 11.
Clothing for men and boys, Outer. A. B. Frank Company. No. 155,957; July 11.
Clothing, Men's. W. F. Moran. No. 157,000; July 11.
Clothing, Men's and young men's. Individual Tailoring Company. No. 151,948; July 11.
Coats, vests, and pants, Men's. Rosenberg Bros. & Co. No. 156,714; July 11.
Coloring and tinting fabrics and the like, Preparation for. E. Samson. No. 160,837; July 11.
Concrete construction, Metal inserts for anchoring piping and shafting, etc., to. Wright & Alexander. No. 133,015; July 11.
Cotton textiles in the piece. N. Erlanger, Blumgart & Co. Nos. 161,723–4; July 11.
Cough lozenges and sirup, and compound for treatment of coughs. Vienna Medical Company. No. 159,638; July 11.
Cows, Guernsey. John C. Haartz. No. 157,568; July 11.
Cravats. W. O. Horn & Brother, Inc. No. 157,422; July 11.
Cream, Cold. L. G. Ryan. No. 156,752; July 11.
Dentifrices, gum, and tooth remedies. Antitartar Chemical Company. No. 157,790; July 11.
Diapers, Babies'. Thomas Textile Company. No. 158,200; July 11.
Dolls. M. S. Wingert. No. 161,913; July 11.
Dolls and toy figures. L. M. Davis. No. 159,201; July 11.
Doubling and twisting frames, Combination. Atwood Machine Company. No. 158,554; July 11.
Doubling frames. Atwood Machine Company. No. 158,555; July 11.
Dresses and aprons. Mandel Brothers. No. 156,538; July 11.
Dyestuffs. Jennings & Company. No. 159,586; July 11.
Egg-preserving compounds. Triangle Manufacturing Co. No. 157,969; July 11.
Electrical circuit testers. A. B. Christopher. No. 157,138; July 11.
Equestrian equipments. Perkins-Campbell Company. No. 144,148; July 11.
Extracts, Liquid food-flavoring. J. B. McComb. No. 154,318; July 11.
Fabric, brake, and transmission lining. United States Asbestos Company. No. 162,653; July 11.
Flour, Wheat. Keystone Flour Co. No. 154,984; July 11.
Food products. Mawer-Gulden-Annis Inc. No. 157,039; July 11.
Fruits, fruit sirups, flavoring extracts, etc., Crushed. John Sexton and Company. No. 153,112; July 11.
Fruits in their natural state, Citrus. Pittsburgh-Florida Fruit Growers Assoc. No. 156,019; July 11.
Furniture made of reed, rattan, and fiber. The Wickercraft. No. 155,288; July 11.
Game, Solitaire. Lubbers & Bell Mfg. Co. No. 162,882; July 11.
Garment for females, Outer. Abe Millman, Inc. No. 153,742; July 11.
Gas apparatus and gas burners. C. M. Kemp Manufacturing Co. No. 131,334; July 11.
Gasoline intensifier. Clinton Chemical Company. No. 158,857; July 11.
Gloves and mittens. Helmholz Mitten Company. No. 155,020; July 11.
Golf clubs. H. I. Jordan. No. 163,583; July 11.
Golf game, Indoor. Putt-Putt Co. No. 161,199; July 11.
Hair dressing. C. C. Hay. No. 117,377; July 11.
Hair nets, Human-. M. Goldaber & Co. No. 143,491; July 11.
Hair restorers. J. W. Hornsey. No. 159,655; July 11.
Hair tonic. S. Basso. No. 156,517; July 11.
Hats and furs, Women's. Bos-Ben Shop. No. 156,773; July 11.
Hats, Women's, misses', and children's. Joseph Loeb Company. No. 155,971; July 11.
Hosiery. Ansbacher & Van Baalen. No. 153,121; July 11.
Incense. Will & Baumer Candle Co. No. 160,175; July 11.
Insecticides. M. Diederich. No. 159,567; July 11.
Knitted coats, jackets, vests, for men, women, and children. H. M. Sawyer & Son. No. 157,447; July 11.
Knitted underwear, Ladies'. Graceline Knitting Company. No. 156,326; July 11.
Lime, Hydrated and quick. Commercial Lime Company. No. 162,533; July 11.
Liniment for treatment of rheumatism. J. C. Gustafson. No. 158,231; July 11.
Lockers, wardrobe, and filing cabinets, and steel shelving, Steel. Durabilt Steel Locker Co. No. 159,350; July 11.
Machinery, Agricultural. Moline Plow Company. No. 158,628; July 11.
Magazine published monthly. C. I. Campbell. No. 156,661; July 11.
Magazine published monthly, Periodical. J. E. Hess. No. 158,710; July 11.
Magazines, Monthly. Westinghouse Electric & Manufacturing Company. No. 159,642; July 11.
Malt extract. M. J. Murphy. No. 147,359; July 11.
Meat and bone scraps for use as poultry feed. E. H. Eckert. No. 155,052; July 11.
Medicinal preparation. Eli Lilly & Company. No. 159,211; July 11.
Medicinal preparation for treatment of loin disease in cattle. W. Abell. No. 159,547; July 11.
Medicine for venereal diseases and catarrh of the mucous membrane. Parke, Davis & Company. No. 160,249; July 11.
Medicines for external use. G. J. McCabe. No. 158,888; July 11.
Medicines for use in the treatment of rheumatism, neuralgia, etc. Allen and Clay. No. 160,784; July 11.
Necklaces. Stix, Baer & Fuller Dry Goods Co. No. 162,071; July 11.
Night robes and sleeping garments. E. Rosenfeld & Company. No. 158,146; July 11.
Oil and alimentary paste, Olive. Ada Importing Co. No. 156,347; July 11.
Oil for rheumatism, boils, etc., Healing. J. Stanislawski. No. 158,999; July 11.
Oils, Pure-fat salad and cooking. E. Klein. No. 154,083; July 11.
Ointment for treatment of eczema and ulcers. R. L. Pleasant. No. 160,969; July 11.
Oranges and preserved oranges. I. K. Friedman. No. 155,604; July 11.
Oranges, grapefruits, and tomatoes, Fresh. Commerce Fruit Company. No. 155,014; July 11.
Oysters and canned oysters. L. P. Maggioni & Co. No. 156,399; July 11.
Packing, Piston and piston-rod. Johns Manville Incorporated. No. 164,445; July 11.
Pants. Straus Mfg. Co. No. 150,937; July 11.
Paper, Bond. A. W. Pohlman Paper Co. Nos. 163,469–70; July 11.
Paper, Writing. Fox River Paper Company. Nos. 163,263–5; July 11.
Peanuts, Sugar-toasted. Mi Candy Company. No. 155,201; July 11.
Pens, Fountain. Dunn-Pen Company. No. 157,215; July 11.
Pens, Fountain. Simplo Füllfeder-Gesellschaft Voss, Lausen & Dziambor. No. 163,292; July 11.
Periodical, Monthly. Boot and Shoe Recorder Publishing Company. No. 159,686; July 11.
Periodical, Weekly. Boot and Shoe Recorder Publishing Company. No. 159,786; July 11.
Petroleum jelly, camphor ice, camphorated oil, cold cream, etc., Pureline Co. No. 158,005; July 11.
Polish, Boot. Blakey's Boot Protectors, Limited. Nos. 158,413–14; July 11.
Powders, face creams rouges, etc., Face, talcum, and sachet. Jolie, Inc. Nos. 160,944–5; July 11.
Preparation or medicine for pains and aches of nervous or organic origin, and for rheumatic, neuralgic, and gouty conditions, etc. Bayer Company. Nos. 160,921–3; July 11.
Publication, Monthly. Glass Container Association of America. No. 162,336; July 11.
Publication, Weekly. Jones & Baker. No. 162,742; July 11.
Pumps, Circulating. System Machine Works. No. 158,731; July 11.
Raincoats, cravenettes, gabardines, bath robes, and ladies' skirts. Comer Manufacturing Company. No. 153,239; July 11.
Reeling frames, Silk-. Atwood Machine Company. No. 158,557; July 11.
Refrigerators. Standard Refrigerator Company. No. 160,369; July 11.
Remedy for indigestion and dyspepsia. M. Herndon. No. 158,312; July 11.
Rings, Finger. L. C. May. No. 158,882; July 11.
Root beer and ginger ale. Reid, Murdoch & Co. No. 164,269; July 11.
Salts, Bath. Saltrates, Limited. No. 160,723; July 11.
Salve for itching diseases, sores, burns, etc. M. G. Hornung. No. 160,762; July 11.
Sardines. Bordeaux & New York Trading Co. No. 157,882; July 11.
Scrim in the piece. Boott Mills. No. 145,873; July 11.
Sewing machines, Loopers for overseaming and overedging. Merrow Machine Company. No. 158,629; July 11.
Shampoo liquid compositions, balsams, and ointments for eczema, Medicated. R. D. Hill Company. No. 160,611; July 11.
Shells, Shot. Western Cartridge Company. No. 164,681; July 11.
Shirt waists, suits, etc., men's and boys' neckties, pyjamas, blouses, etc., Ladies' and misses. J. A. Migel, Inc. No. 153,677; July 11.
Shock absorbers and radiator shutters. Packard Engineering Co. No. 155,363; July 11.
Shoe holders. C. R. Schmidt. Nos. 158,339–40; July 11.
Shovels and scoops. Marshall-Wells Company. No. 141,318; July 11.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Signs, Electrically-illuminated. Flexlume Sign Company. No. 132,736; July 11.
Sirup for cooking purposes. Holbert & Holbert. No. 152,423; July 11.
Skates, baseballs, bats, mitts, golf balls, sticks, and bags, etc. Caravel Company Inc. No. 134,112; July 11.
Soap. P. Kurtzinger. No. 151,918; July 11.
Spinning frames. Atwood Machine Company. No. 158,553; July 11.
Spray for trees, plants, shrubs, and the like. Herbicide Chemical Laboratories. No. 160,666; July 11.
Springs, Ring. O. E. Lehmann & Co. No. 161,688; July 11.
Stair treads, Cork. Pocock Manufacturing Company Limited. No. 146,844; July 11.
Stoves and heaters, Gas. American Stove Company. No. 163,959; July 11.
Suits, trousers, and overcoats, Men's. Arthur Litt & Co. No. 151,763; July 11.
Suppositories, Antiseptic, astringent, vaginal. Owl Drug Company. No. 160,967; July 11.
Tableware. Mappin & Webb Limited. No. 159,473; July 11.
Tablets, Laxative. Plax Company. No. 159,527; July 11.
Tachometers and odometers. North East Electric Company. No. 161,640; July 11.
Threads, Cotton. Bay State Thread Works. No. 150,131; July 11.
Tire-inflating devices. Tire Inflator Co. No. 158,777; July 11.
Tires, Pneumatic rubber vehicle. Ambassador Tire Corporation. No. 164,290; July 11.
Tires, Rubber or rubber and fabric. Racine Rubber Company. No. 158,951; July 11.
Toilet water, scalp rub, hair tonic, etc. C. T. Naumann. No. 160,717; July 11.
Tooth paste and mouth washes. G. L. Kitchen. No. 160,888; July 11.
Treatment of pyorrhea, etc. National Pyro-Zene Company. No. 160,960; July 11.
Vehicle tops and fittings therefor, Bow sockets for. Ashtabula Bow Socket Company. No. 146,286; July 11.
Wagons, Children's coaster. Sheboygan Coaster & Wagon Works. No. 162,273; July 11.
Washing fluid. R. Kravitz. No. 161,195; July 11.
Wine, Medicinal bitter. Picon & Cie. No. 158,251; July 11.

CLASSIFICATION OF PATENTS

ISSUED JULY 11, 1922.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 11: 1,422,061
50: 1,422,332
2— 83: 1,422,758
105: 1,422,366
113: 1,422,435
130: 1,422,441
144: 1,422,281
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3— 12: 1,422,468
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9— 11: 1,422,657
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14— 42: 1,422,717
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59: 1,422,072
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26: 1,422,524
42: 1,422,102
56: 1,422,230
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82: 1,422,092
87: 1,422,736
84— 41: 1,422,276
140: 1,422,713
145: 1,422,275
271: 1,422,760
301: 1,422,784
304: 1,422,738
88— 1: 1,422,527
19.3: 1,422,410
20: 1,422,303
24: 1,422,149
89— 27: 1,422,228
41: 1,422,099
46: 1,422,675
90— 9: 1,422,462
13.2: 1,422,155
91— 12: 1,422,545
18: 1,422,757
32: 1,422,083
92— 20: 1,422,261
43: 1,422,541
93— 7: 1,422,300
36: 1,422,544
1,422,580
40: 1,422,648
58: 1,422,095
94— 11: 1,422,193
1,422,551
95— 63: 1,422,460
64: 1,422,461
75: 1,422,665
100: 1,422,341
97— 4: 1,422,194
28: 1,422,603
32: 1,422,418
60: 1,422,350
99— 12: 1,422,119
14: 1,422,126
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100— 41: 1,422,198
54: 1,422,225
101— 3: 1,422,474
175: 1,422,295
213: 1,422,696
377: 1,422,268
401.2: 1,422,136
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102— 62: 1,422,536
225: 1,422,254
1,422,759
104— 23: 1,422,394
53: 1,422,764
111: 1,422,473
112: 1,422,650
105— 38: 1,422,111
52: 1,422,164
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206: 1,422,116
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430: 1,422,662
106— 8: 1,422,114
23: 1,422,720
39: 1,422,337
54: 1,422,483
107— 53: 1,422,382
108— 6: 1,422,526
109— 1: 1,422,295
111— 85: 1,422,454
112— 2: 1,422,220
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113— 1: 1,422,644
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113: 1,422,605
116: 1,422,314
114— 61: 1,422,542
73: 1,422,354
116— 34: 1,422,068
35: 1,422,179
52: 1,422,330
63: 1,422,210
119— 19: 1,422,283
25: 1,422,624
44: 1,422,250
120— 24: 1,422,556
121— 140: 1,422,437
123— 55: 1,422,143
90: 1,422,373
143: 1,422,794
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170: 1,422,426
173: 1,422,585
174: 1,422,679
177: 1,422,338
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188: 1,422,138
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126— 20: 1,422,472
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58: 1,422,087
60: 1,422,088
90: 1,422,449
99: 1,422,100
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81: 1,422,787
83: 1,422,605
134— 1: 1,422,115
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51: 1,422,711
137— 53: 1,422,212
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140— 77: 1,422,455
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144— 286: 1,422,272
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61: 1,422,267
67: 1,422,322
146— 7: 1,422,731
11: 1,422,391
14: 1,422,706
148— 13: 1,422,710
30: 1,422,530
150— 29: 1,422,554
1,422,724
151— 25: 1,422,750
152— 10: 1,422,791
13: R. 15,406
14: 1,422,078
16: 1,422,117
17: 1,422,123
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19: 1,422,113
24: 1,422,406
37: 1,422,723
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80.5: 1,422,762
154— 2: 1,422,451
46: 1,422,670
155— 126: 1,422,319
156— 14: 1,422,539
15: 1,422,772
158— 1: 1,422,416
27: 1,422,740
28: 1,422,309
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45.5: 1,422,311
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173— 273: 1,422,765
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175— 183: 1,422,224
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337: 1,422,523
354: 1,422,481
364: 1,422,366
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9.2: 1,422,062
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64: 1,422,622
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200— 7: 1,422,549
26: 1,422,725
97: 1,422,702
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132: 1,422,419
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202— 8: 1,422,209
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205— 46: 1,422,233
207— 1: 1,422,532
208— 42: R.15,404
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210— 6: 1,422,674
55: 1,422,514
131: 1,422,190
211— 2: 1,422,650
13: 1,422,782
36: 1,422,800
212— 79: 1,422,687
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213— 59: 1,422,203
67: 1,422,189
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38: 1,422,663
65. 5: 1,422,254
81. 5: 1,422,432
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133: 1,422,611
134: 1,422,767
135: 1,422,250
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216— 21: 1,422,152
217— 5: 1,422,422
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219— 25: 1,422,735
28: 1,422,721
35: 1,422,348
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220— 6: 1,422,092
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221— 11: 1,422,768
95: 1,422,559
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224— 29: 1,422,004
226— 128: 1,422,196
228— 55: 1,422,654
229— 41: 1,422,540
230— 22: 1,422,070
24: 1,422,378
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234— 1: 1,422,477
1. 5: 1,422,207
235— 45: 1,422,895
236— 58: 1,422,099
238— 3: 1,422,280
53: 1,422,425
164: 1,422,623
193: 1,422,187
324: 1,422,260
349: 1,422,340
240— 7: 1,422,528
8. 5: 1,422,239
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41: 1,422,307
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44: 1,422,385
48. 4: 1,422,393
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30: 1,422,177
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249— 1: 1,422,664
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251— 11: 1,422,466
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253— 51: 1,422,458
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255— 13: 1,422,531
35: 1,422,289
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72: 1,422,361
75: 1,422,236
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256— 48: 1,422,127
257— 32: 1,422,570
129: 1,422,315
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259— 1: 1,422,213
260— 11: 1,422,294
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260— 128: 1,422,494
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262— 3: 1,422,204
28: 1,422,386
265— 9: 1,422,141
36: 1,422,104
266— 1: 1,422,575
7: 1,422,309
19: 1,422,684
267— 18: 1,422,566
20: 1,422,587
25: 1,422,586
46: 1,422,086
47: 1,422,755
268— 14: 1,422,552
271— 11: 1,422,535
274— 2: 1,422,310
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1,422,712
10: 1,422,321
21: 1,422,266
277— 37: 1,422,343
278— 43: 1,422,681
279— 76: 1,422,247
280— 5: 1,422,107
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33. 2: 1,422,129
33. 8: 1,422,186
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96. 1: 1,422,346
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283— 23: 1,422,245
287— 52: 1,422,596
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53: 1,422,158
103: 1,422,265
290— 30: 1,422,415
48: R.16,403
292— 33: 1,422,589
86: 1,422,748
111: 1,422,601
216: 1,422,783
228: 1,422,504
271: 1,422,680
293— 55: 1,422,103
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1,422,777
294— 82: 1,422,228
115: 1,422,215
296— 23: 1,422,498
138: 1,422,431
298— 19: 1,422,077
21: 1,422,500
299— 77: 1,422,359
141: 1,422,291
301— 15: 1,422,661
23: 1,422,408
32: 1,422,715
44: 1,422,377
64: 1,422,167
66: 1,422,168
81: 1,422,837

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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and pumping system. No. 1,423,291; July 18.

Air Reduction Company. (See Metzger, Floyd J., assignor.)

Alexay, Adalbert, Avenal, N. J., assignor to Simplex Paper Accessories Co. Inc., Brooklyn, N. Y. Dispensing device. No. 1,423,063; July 18.

Allen, Anson W. (See Ryding, H. C., and Allen.)

Allen, Frank R. (See Mitchell, William F., assignor.)

Allen, William R., and T. K. McRea, Glacier, Wash.; said McRea assignor to said Allen. Spar-tree protector and fastening device for high-lead blocks. No. 1,423,292; July 18.

Amend, Otto P., New York, N. Y. Carbureting liquid fuels. No. 1,423,064; July 18.

American Multigraph Company, The. (See Chisholm, Clifton, assignor.)

American Stove Company. (See Blackford, Atwell J., assignor.)

Ames, Fletcher, Berkeley, Calif. Tent and bed. No. 1,423,171; July 18.

Amsler, Alfred, Schaffhausen, Switzerland. Tonometer. No. 1,423,293; July 18.

Anderson, Adolph, West Allis, Wis. Card holder. No. 1,423,294; July 18.

Anderson, Adolph F., assignor to Apex Appliance Company, Chicago, Ill. Washing machine. No. 1,423,295; July 18.

Anderson, Charles J., and W. H. Van Dyke, Corning, N. Y. Combination lock. No. 1,423,384; July 18.

Anderson, Charles W., Brooklyn, N. Y. Power control for drive mechanism. No. 1,422,809; July 18.

Anderson, Charles W., Brooklyn, N. Y. Ratchet clutch for drive mechanism. No. 1,423,172; July 18.

Anderson, Gustave F., assignor to Paragon Can & Cap Company, Inc., Brooklyn, N. Y. Cap-feeding device for threading machines. No. 1,423,173; July 18.

Angus, John P., Tonawanda, N. Y. Automatic train-control device. No. 1,423,385; July 18.

Applegate, Edward B., and W. H. Yeomans, assignors to Imperial Furniture Company, Grand Rapids, Mich. Glue mixing and preserving apparatus. No. 1,422,811; July 18.

Appel, Walter D., Cleveland Heights, Ohio. Internal-combustion engine. No. 1,422,810; July 18.

Apex Appliance Company. (See Anderson, Adolph F., assignor.)

Armstrong, Percy A. E., Watervliet, N. Y. Bearing. No. 1,422,812; July 18.

Armstrong, Robert F., Kansas City, Mo. Artificial body member. No. 1,423,296; July 18.

Armstrong, William H., New Orleans, La. Poison-bottle cap. No. 1,423,174; July 18.

Arnold, Sherman L., Woodlawn, Pa. Bed bottom. No. 1,423,065; July 18.

Aronson, Louis V., Newark, N. J. Temperature indicator. No. 1,423,066; July 18.

Asbestos Shingle, Slate & Sheathing Company. (See Mattison, Richard V., assignor.)

Atlas Devices Company. (See Leavitt, F. S., and Staples, assignors.)

Atwood, Harry N., and G. B. Bains, 3d, Reading, Pa. Laminated composite wheel. No. 1,422,813; July 18.

Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co., Inc., New York, N. Y. Drying blower for envelope-making machines. No. 1,423,297; July 18.

Austin, James D., and T. Roberts, Harrisburg, Ill. Sign carrier. No. 1,422,911; July 18.

Automatic Takeup Nut Company. (See Gumber, J., and Fearheiley, assignors.)

Automotive Parts Company. (See Schwitzer, Louis, assignor.)

Available Truck Company, The. (See Rath, Joseph J., assignor.)

Averill, Elias M., Sparta, Mich. Collapsible box. No. 1,422,912; July 18.

Aymard, Malcolm F. L. A., Colchester, England. Variable-speed gearing. No. 1,423,067; July 18.

Ayres, Elwood B., and T. H. Rhoads, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drier. No. 1,423,298; July 18.

Bains, George B., 3d. (See Atwood, H. N. and Bains.)

Bair, Joseph H., Philadelphia, Pa., assignor of eighteen-sixtieths to J. O. David, Philadelphia, Pa., fifteen-sixtieths to H. S. Knight, Chicago, Ill., and ten-sixtieths to L. H. Taylor Jr., Philadelphia, Pa. Fluid-power transmission apparatus. No. 1,423,386; July 18.

Baker, Ernest F., Manson, Iowa. Dispensing apparatus. No. 1,422,913; July 18.

Baker, Newton D., Secretary of War, trustee. (See Butler, John S., assignor.)

Baker, Newton D., Secretary of War, trustee. (See Josephs, Lyman C., Jr., assignor.)

Baker, William E., West Norwood, England. Ironing machine. No. 1,423,068; July 18.

Ballard, Herbert T., Norristown, Pa. Knitting machine. No. 1,423,175; July 18.

Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Dissolving or recovering metals. No. 1,423,069; July 18.

Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Precipitating metals from solutions. No. 1,423,070; July 18.

Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Manufacturing electrodes. No. 1,423,071; July 18.

Barker, Perry W., Youngstown, Ohio. Automatic feeder for presses. No. 1,422,914; July 18.

Barry, John E. (See Le Merle, F. G., Ullman, and Barry.)

Bartelt, Walter C., Thiensville, Wis. Building block and wall construction. No. 1,422,814; July 18.

Bartholomäus, Rudolf, Berlin, Germany. Means for drilling polygonal holes. No. 1,423,072; July 18.

Basic Products Corporation. (See Popper, Isaac C., assignor.)

Bassett, Reuben T. (See Crossley, Albert D., assignor.)

Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Resilient wheel. No. 1,423,299; July 18.

Beck Duplicator Company, The. (See Danheiser, T., and Fecher, assignors.)

Beck, George E., Cleveland, Ohio. Separator for storage-battery plates. No. 1,422,815; July 18.

Beeman, Walter E., Laporte, Ind. Demountable rim. No. 1,423,176; July 18.

Beers, Frederick, New Rochelle, and H. L. Powell, assignors to National Biscuit Company, New York, N. Y. Elevating device. No. 1,422,816; July 18.

Beers, Frederick, New Rochelle, and H. L. Powell, New York, N. Y., assignors to National Biscuit Company, New York, N. Y. Drier or oven. No. 1,422,817; July 18.

Behn, Adolph, and J. G. Schmitt, Brooklyn, N. Y. Internal-combustion motor. No. 1,423,073; July 18.

Benjamins, Israel, Brooklyn, N. Y. Rim and tire for automobile and other wheels. No. 1,422,818; July 18.

Benson, David, and G. K. Bruce, Des Moines, Iowa. Ventilated automobile driver's seat. No. 1,422,915; July 18.

Bensine Condensation Co. (See Boecler, Albert, assignor.)

Bergdoll, Louis J., now, by judicial change of name L. J. Bergson, Philadelphia, Pa. Phonographic sound box. No. 1,423,387; July 18.

Betcher, Gotfried, Portland, Oreg. Logging hook. No. 1,423,301; July 18.

Betts, William H., Portland, Oreg. Screen gasket. No. 1,422,916; July 18.

Bilton Machine Tool Company, The. (See Hoagland, Frank O., assignor.)

Birchbauer, Ferdinand, assignor of one-half to J. H. Fallin, Baltimore, Md. Internal-combustion engine. No. 1,423,477; July 18.

Bisby, Sunker Aq., New York, N. Y. Line-slug-casting machine. No. 1,423,388; July 18.

Bjorkman, Axel W., Brooklyn, N. Y. Soldering device. No. 1,422,917; July 18.

Blackford, Atwell J., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Wickless oil burner. No. 1,423,302; July 18.

Blaicher, Ernest C., Irvington, N. J., assignor to Interstate Smelting and Refining Co., Inc., Newark, N. J. Finger ring. No. 1,422,819; July 18.

Blake, John H., Jr. (See Hewitt, E. R., and Blake.)

Blakeslee, George S., Chicago, Ill. Machine for washing boxes, cans, and other articles. No. 1,423,300; July 18.

Blakeman, William N., Jr., Mount Vernon, N. Y. Paint vehicle. No. 1,423,389; July 18.

Blakeman, William N., Jr., Mount Vernon, N. Y. Paint composition. No. 1,423,390; July 18.

Blakeman, William N., Jr., Mount Vernon, N. Y. Pigment composition for paints. No. 1,423,391; July 18.
Blakeman, William N., Jr., Mount Vernon, N. Y. Oil. No. 1,423,392; July 18.
Block, Alexander, New York, N. Y. Lock. No. 1,422,820; July 18.
Blything, John F. (See Glaser, Oscar L., assignor.)
Boardman, Charles S., and C. C. Conkling, deceased, Buffalo; L. C. Conkling, executrix, assignors to Lackawanna Steel Company, Lackawanna, N. Y. Sheet-piling wall construction. No. 1,422,821; July 18.
Boecler, Albert, Malmö, Sweden, assignor to Benzine Condensation Co., Inc. Machine for applying solutions of rubber or the like to fabrics. No. 1,422,822; July 18.
Bohmker, John C., Bradley, assignor to Sears, Roebuck and Company, Chicago, Ill. Disk bearing. No. 1,422,918; July 18.
Bolger, John E. (See Condy, Alice, assignor.)
Bonnelycke, Emil. (See Karr, Henry C., assignor.)
Bonsall, Charles D., Parnassus, Pa., assignor to W. P. Murphy, New York, N. Y. Reenforced car end-wall structure. No. 1,422,823; July 18.
Bose, Monte H., Indianapolis, Ind. Radiator-petcock attachment. No. 1,422,919; July 18.
Boston, Arvel A., New Martinsville, W. Va. Battery filler. No. 1,423,393; July 18.
Bosworth, George P., assignor, by mesne assignments, to Hemphill Company, Central Falls, R. I. Circular-stocking machine. No. 1,423,177; July 18.
Bowman, Jack J., Portland, Oreg. Angle bar and nut lock. No. 1,423,394; July 18.
Brabson, Tom, Brooklyn, N. Y. Valve. No. 1,423,178; July 18.
Braden, Charles H., assignor to National Airless Tire Company, Los Angeles, Calif. Airless tire. No. 1,423,074; July 18.
Bradley, Ralph A. (See McNally, J. F., and Bradley.)
Brand, George P., New York, N. Y. Tracking device for player pianos. No. 1,422,824; July 18.
Brandenburg, Francis C., Piqua, Ohio. Staggered tooth cutter for dressing abrasive elements. No. 1,423,075; July 18.
Branham, Hugh M., Brooklyn, N. Y. Depth gear for torpedoes. No. 1,423,179; July 18.
Breeding, Andrew J. (See Burke, P. W., and Breeding.)
Briggs & Stratton Company. (See Soreng, Edgar M., assignor.)
Brill, J. G., Company, The. (See Brooks, James A., assignor.)
Brobst, William E., Jr., Noblesville, Ind. Equalizer for vehicle suspension. No. 1,423,180; July 18.
Brooks, James A., assignor to The J. G. Brill Company, Philadelphia, Pa. Safety gate for cars. No. 1,423,303; July 18.
Brooks, Raymond, Benson Mines, N. Y. Theater seat. No. 1,422,825; July 18.
Broomell, Albert P., deceased, York, Pa.; J. L. Broomell, executrix. Oil-burning apparatus. No. 1,423,181; July 18.
Broomell, Janet L., executrix. (See Broomell, Albert P.)
Brown, Carlton E., Chicago, Ill. Bracket for printometers. No. 1,423,182; July 18.
Brown, Edward W., assignor of nine-tenths to The Brown Motor Company, Sparks, and one-tenth to R. P. Roope, Chandler, Okla. Motor. No. 1,423,395; July 18.
Brown, Frank O., St. Louis, Mo. Electrically-heated tongs. No. 1,422,826; July 18.
Brown Instrument Company, The. (See Brown, R. P., and Wagner, assignors.)
Brown Motor Company, The, et al. (See Brown, Edward W., assignor.)
Brown, Richard P., and F. Wagner, assignors to The Brown Instrument Company, Philadelphia, Pa. Multiple-recording instrument. No. 1,422,920; July 18.
Brown, William I., Syracuse, N. Y. Attachment for violins and analogous string instruments. No. 1,422,827; July 18.
Bruce, George, K. (See Benson, D., and Bruce.)
Brundage, Harry, San Francisco, Calif., assignor to G. W. Koerner, New York, N. Y. Paper file and binder. No 1,423,076; July 18.
Bryant Electric Company, The. (See Catlin, Hoyt, assignor.)
Buckham, George T. (See Dawson, A. T., and Buckham.)
Budd Wheel Company. (See Ledwinka, Joseph, assignor.)
Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Pipeless furnace. No. 1,422,828; July 18.
Burdon, William M., assignor to Burdons Limited, Bellshill, Scotland. Apparatus for the liquid-fuel firing of steam boilers. No. 1,423,183; July 18.
Burdons Limited. (See Burdon, William M., assignor.)
Burke, Peter W., and A. J. Breeding, assignors of one-third to F. Rogers, Bremerton, Wash. Oiling device. No. 1,423,077; July 18.
Burner, William L. (See Cotton, J. H., and Burner.)
Burns, William D., Amenia, N. Y. Roller bearing. No. 1,423,304; July 18.
Burton, Charles S., Oak Park, Ill. Container for music rolls and the like. No. 1,422,829; July 18.
Bush Electric Company, The. (See Bush, Hazel B., assignor.)
Bush, Hazel B., Bedford, assignor to The Bush Electric Company, Cleveland, Ohio. Fuse emplacing and removing implement. No. 1,422,830; July 18.
Butler, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Luminous gun sight. No. 1,423,184; July 18.
Bylund, Eric, Winnipeg, Manitoba, Canada. Vehicle tire. No. 1,422,921; July 18.
Cable Company, The. (See Hagey, James C., assignor.)
Cady, Willis E., Chicago, Ill. Air-brake handle. No. 1,423,185; July 18.
Calandra, Vincent, Buffalo, N. Y. Budding implement. No. 1,423,491; July 18.
Callahan, Timothy F., Squantum, Mass. Liquid measuring and dispensing apparatus. No. 1,423,305; July 18.
Campbell, Bert L., Chicago, Ill. Automatic cut-out. No. 1,422,923; July 18.
Cameron, Burr S., Douglassville, Tex. Airplane landing director. No. 1,422,922; July 18.
Camp, William W., Denver, Colo. Vermin exterminator. No. 1,422,831; July 18.
Cantwell, Edward J., Kansas City, Mo. Hay stacker. No. 1,422,924; July 18.
Caplan, Harry, Detroit, Mich. Vehicle fender. No. 1,423,186; July 18.
Caplan, Harry, Detroit, Mich. Automobile fender. No. 1,423,187; July 18.
Cathcart, Oswald J., Newburgh, N. Y. Vanity case. No. 1,423,079; July 18.
Catlin, Hoyt, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,423,306; July 18.
Caracristi, Virginius Z., Bronxville, N. Y., and A. F. Wallibillich, Newark, N. J. Valve cut-off and speed indicator for locomotives. No. 1,422,832; July 18.
Carbide & Carbon Chemicals Corporation. (See Curme, George O., Jr., assignor.)
Cardin, William O., assignor to J. W. Freeman, Joplin, Mo. Dehydrator. No. 1,423,188; July 18.
Carlson, Edward L., Denver, Colo. Music-roll cabinet. No. 1,423,078; July 18.
Carlson, John W., assignor to Chicago Novelty Mfg. Co., Chicago, Ill. Toy. No. 1,422,833; July 18.
Cary Manufacturing Co. (See Cary, Spencer C., assignor.)
Cary, Spencer C., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Bundled wire. No. 1,423,478; July 18.
Carter, James D., Chicago, Ill. Proportional scaling instrument. No. 1,422,925; July 18.
Central States Bridge Company. (See Riley, Austin A., assignor.)
Chadwick, George C., Melbourne, Victoria, Australia. Unloading apparatus. No. 1,422,926; July 18.
Champlin, Herbert H. (See Davis, M. L., and Cook, assignors.)
Chausse, Wilfrid G., Detroit, Mich. Safety device for gas generating and heating apparatus. No. 1,423,080; July 18.
Cherry, Lester A., Kenmore, N. Y. Regulator for vapor-heating systems. No. 1,423,492; July 18.
Chester Machine Co. Inc. (See Augustine, Addison E., assignor.)
Chew, Manley, Midland, Ontario, Canada. Fiber board. No. 1,423,081; July 18.
Chew, Manley, Midland, Ontario, Canada. Apparatus for producing fiber board. No. 1,423,082; July 18.
Chew, Manley, Midland, Ontario, Canada. Producing fiber board. No. 1,423,083; July 18.
Chicago Novelty Mfg. Co. (See Carlson, John W., assignor.)
Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Impression mechanism for addressing machines. No. 1,423,189; July 18.
Chromy, George, deceased, Stewart, Minn., J. Chromy, administrator. Automatic train-stopping means. No. 1,423,396; July 18.
Chromy, Joseph, administrator. (See Chromy, George.)
Cilley, Vrl I. (See Freeman, W. F., and Cilley.)
Clark, John G., Holyoke, Mass. Computing device. No. 1,423,493; July 18.
Clavey, Gilbert A., Battersea Park, England. Machine for planing or machining propeller blades. No. 1,423,307; July 18.
Clements, George, assignor to Clements Mfg. Co., Chicago, Ill. Blower. No. 1,423,190; July 18.
Clements Mfg. Co. (See Clements, George, assignor.)
Clevenger, James L., Columbus, Ind. Leather-sole-softening machine. No. 1,422,927; July 18.
Codman, Russell, Jr. (See Rollins, William T., assignor.)
Colby, Frank W., Chicago, Ill., assignor to The Kansas City Spiral Pipe Company. Apparatus for manufacturing pipe. No 1,422,834; July 18.
Coleman, William O., Indianapolis, Ind. Lock. No. 1,423,397; July 18.
Colling, George M., Carrington, N. Dak. Combined tow and push bar. No. 1,422,928; July 18.
Collison, John G., J. W. Wright, H. M. Filbert, Dayton, Ohio, and W. Frank, Miamisburg, Ohio, assignors to The Stemco Engineering Company, Dayton, Ohio. Fluid gauge. No. 1,423,191; July 18.
Colt, Samuel S., Orange, N. J. Staging for buildings and other structures. No. 1,423,308; July 18.
Combustion Engineering Corporation. (See Van Brunt, John, assignor.)

Compression Tube & Tire Co. (See Lobel, Herman, assignor.)
Condy, Alice, Ashfield, near Sydney, assignor to J. E. Bolger, Sydney, New South Wales, Australia. Kitchen utensil for broiling and toasting food. No. 1,422,835; July 18.
Conkling, Cloud C. (See Boardman, C. S., and Conkling.)
Conkling, Lucile C., executrix. (See Boardman, C. S., and Conkling.)
Connell, Edward F. and J. F., Florence, Mass. Stop motion. No. 1,423,398; July 18.
Connell, John F. (See Connell, Edward F. and J. F.)
Converse, Clinton J., Bridgeport, Conn. Milling tool. No. 1,423,192; July 18.
Cooke, Richard T., Indianapolis, Ind. Power-transmission mechanism. No. 1,422,929; July 18.
Cook, Glen W. (See Davis, M. L., and Cook.)
Cooper, Augustus S., Santa Barbara, Calif. Carbon black and producing same. No. 1,423,193; July 18.
Cooper, James D., Toronto, Ontario, Canada. Railway switch. No. 1,422,836; July 18.
Corado, Charles E., Winnipeg, Manitoba, Canada. Hydrocarbon burner. No. 1,422,930; July 18.
Corbett, Claude M., Fort Arthur, Tex. Locking device. No. 1,423,194; July 18.
Corcoran, Thos. J., Lamp Company, The. (See Kuen, Eugene A., assignor.)
Corell, Martin. (See Krinselin, G., and Corell.)
Costanino, Alix, Providence, R. I. Rubber heel. No. 1,423,390; July 18.
Cotton, James H., and W. L. Burner, assignors to The Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Truck coupling. No. 1,423,084; July 18.
Cox, Ora M., Manayka, and C. C. Rose, Clarksburg, W. Va. Sheet-glass-drawing machine. No. 1,423,195; July 18.
Craig Chemical Corporation. (See Craig, William E., assignor.) (Reissue.)
Craig, Louis B., Davenport, Iowa. Lunette bracket. No. 1,423,196; July 18.
Craig, William E., Joplin, Mo., assignor, by mesne assignments, to Craig Chemical Corporation, Cleveland, Ohio. Treatment for venereal diseases. (Reissue.) No. 15,411; July 18.
Cramer, Christopher E., Hackensack, N. J. Attachment for paper-making machines. No. 1,423,400; July 18.
Crandall, Irving B., Nahant, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y. Connecting transmitters to vacuum-tube amplifiers. No. 1,422,837; July 18.
Crane, Herbert W., Chicago, Ill. Door-controlling device. No. 1,422,931; July 18.
Critchlow, Edward C., Orcutt, Calif. Pump plunger. No. 1,423,197; July 18.
Crossley, Albert D., assignor of one-half to R. T. Bassett, Hartford, Conn. Spare-tire carrier. No. 1,422,932; July 18.
Crossley, David, Trenton, N. J. Power press for tile, mosaic, and the like. No. 1,423,401; July 18.
Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal-combustion engine. No. 1,423,085; July 18.
Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal-combustion engine. No. 1,423,086; July 18.
Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal-combustion engine. No. 1,423,087; July 18.
Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal combustion oil engine. No. 1,423,088; July 18.
Cross, Roy, Kansas City, Mo., assignor to Gasoline Products Company, Inc., New York, N. Y. Treating petroleum oil. No. 1,423,500; July 18.
Curme, George O., Jr., Pittsburgh, Pa., assignor to Carbide & Carbon Chemicals Corporation. Chlorinating gaseous hydrocarbons and recovering products therefrom. No. 1,422,838; July 18.
Curtis, Egbert H., Spring Valley, N. Y. Electrical conduit system. No. 1,423,309; July 18.
Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
Curtiss, George E. (See Smith C. F., and Curtiss.)
Cushman, Allerton S., Washington, D. C. Producing color effects. No. 1,423,089; July 18.
Danheiser, Theodore, New York, and F. F. Fecher, Brooklyn, N. Y., assignors to The Beck Duplicator Company. Duplicator. No. 1,422,934; July 18.
Darling, Mary G., Washington, D. C. Protector. No. 1,423,402; July 18.
Davenport, Thomas L., Everett, Wash. Vacuum jet and system of operating the same. No. 1,423,198; July 18.
David, James O., et al. (See Blair, Joseph H., assignor.)
Davis, Alonzo E., Ashtabula, Ohio. Window-sash fastener. No. 1,423,310; July 18.
Davis, Melvin L., and G. W. Cook, assignors of one-third to H. H. Champlin, Enid, Okla. Pressure-controlled cut-off. No. 1,423,403; July 18.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. High-angle ordnance. No. 1,423,404; July 18.
Dawson, Robert K., Guelph, Ontario, Canada. Chair base. No. 1,422,933; July 18.
Dayeh, Louis, Philadelphia, Pa. Combination toothbrush and dentifrice holder. No. 1,423,405; July 18.
Dayton Steel Racquet Company, The. (See Larned, William A., assignor.)
Dean, Murray F., St. Louis, Mo. Ventilating knob for cooking vessels. No. 1,422,935; July 18.
De Clamecy, Philippe, assignor to B. F. Sturtevant Company, Boston, Mass. Humidifying air. No. 1,422,839; July 18.
De Clamecy, Philippe, Boston, Mass., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,423,311; July 18.
De Grasse, Consuélo, née Fould, Paris, France. Jointed lay figure, model, or doll. No. 1,422,840; July 18.
Delano, James K., New York, N. Y. Electric-motor vehicle. No. 1,423,090; July 18.
De Laval Separator Company, The. (See Hall, Selden H., assignor.)
De Laval Separator Company, The. (See Hopgood, Cyrus H., assignor.)
Delph, Asa G., and R. C. Hemphill, Kansas City, Mo. Lock. No. 1,422,936; July 18.
Derr, Thomas S., Brookline, Mass. Fluid-fuel burner. No. 1,423,312; July 18.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Seam for sewed articles. No. 1,423,479; July 18.
Dey, William H., Jersey City, N. J., assignor to United States Radium Corporation. Luminous article and making the same. No. 1,422,841; July 18.
Dedela, August, Vancouver Island, British Columbia, Canada. Fiber saver. No. 1,423,199; July 18.
De Zeng, Henry L., Moorestown, N. J. Optical instrument. No. 1,423,091; July 18.
De Zeng, Henry L., Moorestown, N. J. Optical instrument. No. 1,423,092; July 18.
Dixon, George B. (See Rivera, W. L., and Dixon.)
Donahue, George, Hyde Park, assignor, by mesne assignments, to Frederick L. Emery, Lexington, Mass. Car door. No. 1,423,200; July 18.
Donley, Bert N., Muscatine, Iowa. Detachable handle. No. 1,423,406; July 18.
Dorcheff, George, alias G. Theodore, Cincinnati, Ohio. Cabbage cutter. No. 1,422,937; July 18.
Dorsey, Frank M. (See Lenher, V., and Dorsey.)
Dorsey, Parmer, Wichita, Kans., assignor to Henderson-Willis Welding and Cutting Company, St. Louis, Mo. Gas generator. No. 1,422,938; July 18.
Dougall, Percy, Kidderminster, England. Internal-combustion engine. No. 1,423,407; July 18.
Dougall, Wilfrid, Montreal, Quebec, Canada. Reading ribbon in signaling machines. No. 1,422,842; July 18.
Douglas, Philip F., Minnedosa, Manitoba, Canada. Bobbin winder. No. 1,423,313; July 18.
Dover Manufacturing Company, The. (See Stransky, Emil, assignor.)
Down, Edith B., Watertown, N. Y. Attachment for beds. No. 1,422,939; July 18.
Duckman, Arthur M., London, England. Gas-fired pottery kiln. No. 1,423,408; July 18.
Dulaney, H. S. (See Spencer, Charles H., assignor.)
Dunham Company, The. (See Griswold, R. H., and Powell, assignors.)
Dunmire, Charles W., and S. C. Enck, Philadelphia, Pa. Washing machine. No. 1,422,940; July 18.
Ebbenga, Georg L., Sibley, Iowa. Water heater. No. 1,422,941; July 18.
Eberly, Sylvester, assignor to D. A. Yoder, Toledo, Ohio. Container-arranging apparatus. No. 1,422,942; July 18.
Eberly, Sylvester, assignor to D. A. Yoder, Toledo, Ohio. Can-righting machine. No. 1,422,943; July 18.
Eckroat, Frank P. (See Sevier, C. D., and Eckroat.)
Economy Shoe Machine Co. (See Terry, George O., assignor.)
Eddington, A. T. (See Pokorny, James T., assignor.)
Edmondson, Harvey S., Spokane, Wash. Calculator. No. 1,422,944; July 18.
Edwards, Karl B., London, England. Manufacture of arsenical compounds. No. 1,422,945; July 18.
Egersdörfer, Fritz, Charlottenburg, Germany. Rotary machine. No. 1,422,946; July 18.
Ehret, Cornelius D. (See McCaa, David G., assignor.)
Eller, Orlando S., Long Beach, Calif. Shoe-button remover. No. 1,422,947; July 18.
Ellis, Herbert R., Fredericksburg, Va. Card and sign or poster painter's workbench. No. 1,423,201; July 18.
Emery, Frederick L. (See Donahue, George, assignor.)
Enck, Schuyler C. (See Dunmire, C. W., and Enck.)
Ende, Edwin A. (See Norton, G. F., and Ende.)
Erni, Walter, Milwaukee, Wis. Driving mechanism for washing machines. No. 1,422,843; July 18.
Eubank, Nathan A., Nashville, Tenn. Tire-rim tool. No. 1,422,948; July 18.
Evans, John E., Chicago, Ill. Brick. No. 1,422,949; July 18.
Fairless, Victor H., Trenton, Tenn. Hose protector. No. 1,423,409; July 18.
Fallin, Joseph H. (See Birchbauer, Ferdinand, assignor.)
Fanning, John J. (See Grant, A. G., and Fanning.)
Farbwerke vorm. Meister Lucius & Brüning. (See Krinselin, G., and Corell, assignors.)
Fargo, Charles R., and P. O. Unger, assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf binder and stand therefor. No. 1,422,950; July 18.
Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train-speed-control device. No. 1,422,844; July 18.

Fate, Daisy L., executrix. (See Fate, John L.)
Fate, John L., deceased; D. L. Fate, executrix, assignor, by mesne assignments, to C. R. Gleason, Chicago, Ill. Apparatus for sealing vacuum jackets. No. 1,423,093; July 18.
Faurot, Henry, Jr., assignor to Western Felt Works, Chicago, Ill. Window-mounting device. No. 1,422,951; July 18.
Fawver, William J., Patesville, Ky. Clock escapement. No. 1,423,410; July 18.
Fearheiley, Fred. F. (See Gumber, J., and Fearheiley.)
Fecher, Frederick F. (See Danheiser, T., and Fecher.)
Fellows, Perry E., Rochester, N. Y. Tightening device for antiskid chains. No. 1,423,202; July 18.
Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Carton-sealing machine. No. 1,423,094; July 18.
Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Conveyer. No. 1,423,095; July 18.
Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Transfer mechanism. No. 1,423,096; July 18.
Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Carton-handling apparatus. No. 1,423,097; July 18.
Ferguson, John L., Joliet, Ill. Device for operating on containers. No. 1,423,098; July 18.
Feuillette, Emile, assignor to La Societe des Etablissements E. Feuillette, Boulogne-sur-Seine, France. Tractor wheel. No. 1,422,952; July 18.
Finch, Stanley W., Washington, D. C. Liquid-level indicator. No. 1,423,411; July 18.
Fiechtl, Ferdinand, Cherryvale, Kans. Charging car. No. 1,423,314; July 18.
Filbert, Harry M. (See Collison, J. G., Wright, Filbert, and Frank.)
Fiske, David, Chicago, Ill. Fish stringer. No. 1,423,203; July 18.
Fitzsimmons, Norman J. (See Tiffany, Gerald W., assignor.)
Fonner, Howard L., Altoona, Pa. Shuttle attachment. No. 1,423,089; July 18.
Foster, Ernest H., Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Superheater. No. 1,422,847; July 18.
Frank, Walter. (See Collison, J. G., Wright, Filbert, and Frank.)
Frank, William, assignor of one-half to W. Taylor, Vancouver, British Columbia, Canada. Railway-car water closet. No. 1,422,953; July 18.
Franks, George M., St. Paul, Minn. Display device. No. 1,422,845; July 18.
Fraser, Perry D., Ridgewood, N. J. Transfer reel. No. 1,422,964; July 18.
Fredrikson, Walter O., et al., trustees. (See McArthur, Robert C., assignor.)
Freeman, J. W. (See Cardin, William O., assignor.)
Freeman, Marshall J., East Orange, N. J. Spark intensifier. No. 1,423,204; July 18.
Freeman, William F., and Y. I. Cilley, Grand Rapids, Mich. Direction indicator. No. 1,422,965; July 18.
Fried. Krupp Aktiengesellschaft Germaniawerft. (See Techel, Hans, assignor.)
Fried. Krupp Aktiengesellschaft. (See Krüger, Paul, assignor.)
Fritts, James C., Scranton, Pa. Lock for sliding doors. No. 1,422,846; July 18.
Frost, Jesse M. (See Souders, H. V., and Frost.)
Fulton Iron Works Company. (See Hurter, Henry, assignor.)
Gaar, James M., Richmond, Ind. Vehicle spring. No. 1,422,966; July 18.
Gagarine, Prince E. (See Karycheff, V., and Gagarine.)
Gallagher, Robert B., and R. C. Young, Winnipeg, Manitoba, Canada. Bedspring attachment. No. 1,423,100; July 18.
Gams, Alfons, and E. Wybert, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Preparing optically active aromatic aminoalcohols. No. 1,423,101; July 18.
Garner, Herman H., Pomona, Calif. Air cleaner. No. 1,423,412; July 18.
Garvey, Edward S., Clayton, Mo. Ink and making the same. No. 1,422,957; July 18.
Gasoline Products Company. (See Cross, Roy, assignor.)
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Sewing machine. No. 1,423,205; July 18.
Geddes, John H., Waterbury, Conn. Phonograph record. No. 1,423,206; July 18.
Geis, Leopold H., Mount Arlington, N. J., assignor to New York Mackintosh Clothing Co., New York, N. Y. Rain cape. No. 1,423,315; July 18.
Gelin, Charles A., assignor to W. C. Lewis, Chicago, Ill. Journal packing. No. 1,423,207; July 18.
General Electric Company. (See Batchelder, Asa F., assignor.)
General Electric Company. (See Laise, Clemens A., assignor.)
General Electric Company. (See Lenher, V., and Dorsey, assignors.)
Gerken, Heinrich W., Wandshek, Germany. Gear for well pumps. No. 1,423,102; July 18.
Gerlinger, Carl F., Dallas, Oreg. Lumber carrier. No. 1,422,958; July 18.
Gerstner, Harry H., Dayton, Ohio. Talking-machine disk-record cabinet. No. 1,422,959; July 18.
Getsinger, William J., Los Angeles, Calif. Tie retainer. No. 1,423,208; July 18.
Gianque, Jules H., and C. Haesler, Le Locle, Switzerland. Friction clutch. No. 1,423,413; July 18.
Gibbs, Edward F-G., Washington, D. C. Advancing cutter-boring tool. No. 1,423,209; July 18.
Gibson, Edward T., Brooklyn, N. Y. Automobile intention-signaling device. No. 1,422,960; July 18.
Gillig, Chester H. and L., San Francisco, Calif. Automobile side curtain. No. 1,423,210; July 18.
Gillig, Leo. (See Gillig, Chester and L.)
Gill, Julius Q., Peoria, Ill. Cooling compound for hot journal boxes and producing the same. No. 1,423,105; July 18.
Giovagnoli, John, assignor of two-thirds to Roberts, Nash & Company, Inc., Flushing, N. Y. Mortar spreader. No. 1,423,316; July 18.
Glaeser, Walter, Brooklyn, assignor to Potash Extraction Corporation, New York, N. Y. Extraction of potassium compounds. No. 1,422,848; July 18.
Glaser, Oscar L., assignor of one-half to J. F. Blything, Oak Park, Ill. Safety razor. No. 1,423,414; July 18.
Glass, Harry, Jamaica, N. Y. Self-adjusting bearing. No. 1,422,961; July 18.
Glass, Matthew, Philadelphia, Pa. Holder. No. 1,423,415; July 18.
Glasser, Richard, San Francisco, Calif. Extensible ladder for fire escapes. No. 1,423,104; July 18.
Gleason, C. Roy. (See Fate, John L., assignor.)
Gleanam Embroidery Company. (See Hersog, Louis, assignor.)
Goddard, Paul B. (See Minshull, Robert, assignor.)
Godkevitch, Abraham H., New York, N. Y. Wooden shipping case. No. 1,423,317; July 18.
Gomes, Arthur E., Peoria, Ill. Mattress. No. 1,423,416; July 18.
Gorman, John F., Spokane, Wash. Display-rack. No. 1,423,417; July 18.
Goss, Charles E. (See Goss, George W. and C. E.)
Goss, George W. and C. E., Baltimore, Ohio. Wagon gate construction. No. 1,422,962; July 18.
Government of the United States represented by the Secretary of the Navy. (See Scheele, Walter T., assignor.)
Grainger, William H., Toronto, Ontario, Canada. Tie holder. No. 1,422,849; July 18.
Grant, Arthur G., and J. J. Fanning; said Fanning assignor to J. V. Grant, Yardley, Wash. Railway-switch lock. No. 1,422,963; July 18.
Grant, John V. (See Grant, A. G., and Fanning, assignors.)
Grasselli Chemical Company. (See Jordan, Heinrich, assignor.)
Greenbaum, Harry L., New York, N. Y. Device for use in coloring bulbs. No. 1,422,964; July 18.
Green Engineering Company. (See Strong, Arthur P., assignor.)
Green, Oliver, Michigan City, Ind. Signaling device for railways. No. 1,423,318; July 18.
Greenstreet, Jason H., Indianapolis, Ind. Tool for closing wire-bound boxes. No. 1,422,965; July 18.
Greenstreet, Jason H., Indianapolis, Ind. Package blank and package. No. 1,422,966; July 18.
Greif Brothers Cooperage Company, The. (See Raible, John R., assignor.)
Greitzer, Meyer, New York, N. Y. Lamp shade. No. 1,423,319; July 18.
Grikscheit, William, assignor of one-half to T. B. Mothersill, Windsor, Ontario, Canada. Drain plug. No. 1,423,418; July 18.
Griswold, Ray H., Cleveland, and E. J. Powell, Berea, Ohio, assignor to The Dunham Company. Tractor-track obliterator. No. 1,422,967; July 18.
Gruenberg, Walter A., and D. Miller, Detroit, Mich., assignors to The Miller Transmission Company, New York, N. Y. Milling machine. No. 1,422,850; July 18.
Gruetter, John R. (See Loew, C. H., and Gruetter.)
Gumber, Joseph, and F. F. Fearheiley, assignors to Automatic Takeup Nut Company, East Moline, Ill. Compensating device. No. 1,423,480; July 18.
Gushwa, Charles, Elkhart, Ind. Wire-fence tightener. No. 1,423,211; July 18.
Gustafson, Adolph P., assignor to M. Schuls Company, Chicago, Ill. Pneumatic action for player pianos and the like. No. 1,423,505; July 18.
Haas, Louis, assignor to the Société Chimique de la Grande Paraisse, Paris, France. Preparation of aromatic nitramines. No. 1,423,494; July 18.
Haas, Rupert, St. Louis, Mo. Utensil-handling device for bake ovens. No. 1,423,320; July 18.
Hacker, Henry T., Lovell, Wyo. Gate hinge. No. 1,423,321; July 18.
Haesler, Charles. (See Gianque, J. H., and Haesler.)
Haeseler, Charles H., Philadelphia, Pa. Condiment dispenser or container. No. 1,423,322; July 18.
Hafertepen, Edward B., Cincinnati, Ohio. Boot and shoe. No. 1,422,968; July 18.
Hagey, James C., assignor of one-half to The Cable Company, Chicago, Ill. Expression device for automatic musical instruments. No. 1,422,969; July 18.

Halasha, Charles, Milwaukee, Wis. Basket. No. 1,422,419; July 18.
Halfpenny, William E., Juniata, Pa. Tire. No. 1,422,851; July 18.
Hall, Akos J., Cleveland, Ohio. Stair landing or platform. No. 1,423,481; July 18.
Hall, Dean S., Marshfield, Vt. Comb frame for beehives. No. 1,423,212; July 18.
Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal machine. No. 1,422,852; July 18.
Hammontre, John H., Los Angeles, Calif. Derailer. No. 1,423,495; July 18.
Hancock, John, et al. (See Lemons, Joseph F., assignor.)
Haney, Lewis E., Los Angeles, Calif. Pump. No. 1,423,496; July 18.
Hanford, Orrin A., Pasadena, Calif. Portable hand tool for capping, sealing, and unsealing bottles. No. 1,422,970; July 18.
Hansen, Charles C., Forest Park, assignor to Refrigerating Specialties Company, Chicago, Ill. Controlling mechanism for refrigerating apparatus. No. 1,422,853; July 18.
Hansen, Svend, New York, N. Y. Bottle cap. No. 1,423,105; July 18.
Hansen, Svend, New York, N. Y. Bottle cap. No. 1,423,106; July 18.
Hanson, John, Worcester, Mass. Woodworking machine. No. 1,422,971; July 18.
Hantsch, Alfred P., New Brunswick, N. J. Plate envelope. No. 1,423,420; July 18.
Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Centrifugal machine. No. 1,422,856; July 18.
Harding, Hiram R., assignor to The Harding Peeling Machine Company, Inc., Baltimore, Md. Machine for skinning and coring tomatoes. No. 1,423,421; July 18.
Harding Peeling Machine Company, The. (See Harding, Hiram R., assignor.)
Harkness, George K. (See Scruby, B., and Harkness.)
Harman, Irwin O., Hillsboro, Kans. Shoehorn. No. 1,423,422; July 18.
Harrington, Harry A., Cuyahoga Falls, Ohio. Electrical generating system. No. 1,423,107; July 18.
Hart, Max G., Elyria, Ohio. Double cushioned shoe heel or lift. No. 1,422,854; July 18.
Haskell, Samuel, Brooklyn, N. Y. Shimmy doll. No. 1,422,855; July 18.
Haynsworth, Julius D., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electric oven. No. 1,422,857; July 18.
Hazard, George E., assignor to Kellogg Manufacturing Company, Rochester, N. Y. Valve construction. No. 1,423,223; July 18.
Heany, John A., New Haven, Conn. assignor, by mesne assignments, to Rockbestos Products Corporation. Clutch mechanism. No. 1,423,108; July 18.
Heath, Francis, assignor to The Huddersfield, England, Heath Wrapper Company, Littlemoor, Mirfield, England. Wrapping machine. No. 1,423,224; July 18.
Heath Wrapper Company. (See Heath, Francis, assignor.)
Heberling, John, Rochester, N. Y. Printing machine. No. 1,423,535; July 18.
Hester, Charles M., Butler, Pa. Oil-well packer. No. 1,423,213; July 18.
Heilman, Guy C., Philadelphia, Pa. Melting tank. No. 1,422,858; July 18.
Heilen, Jacob L., Kloften, Norway. Producing wheel. No. 1,423,109; July 18.
Hemphill Company. (See Bosworth, George P., assignor.)
Hemphill, Robert C. (See Delph, A. G., and Hemphill.)
Henderson-Willis Welding and Cutting Company. (See Dorsey, Parmer, assignor.)
Henry, William, Philadelphia, Pa. Dustproof oil ring. No. 1,422,972; July 18.
Herbst, Kaj T. (See Lundsgaard, C. J. S., and Herbst.)
Hertzberg, William, Brooklyn, N. Y. Index-card holder. No. 1,422,973; July 18.
Hersog, Louis, assignor to Gleanam Embroidery Company, Beacon, N. Y. Jacquard-card repeating and transposing machine. No. 1,423,110; July 18.
Hersog, Louis, assignor to Gleanam Embroidery Company, Beacon, N. Y. Jacquard-card repeating and transposing machine. No. 1,423,111; July 18.
Hewitt, Edward R., Midvale, and J. H. Blake, Jr., East Orange, N. J., assignors to International Motor Company, New York, N. Y. Body for farm trucks. No. 1,422,859; July 18.
Hicks, Charles F., Romeo, Mich. Tire liner. No. 1,423,423; July 18.
Higgins, Clifford B., assignor of one-half to H. A. Higgins, Detroit, Mich. Art and mechanism for drawing hollow cylindrical metal bodies. No. 1,422,974; July 18.
Higgins, Harry A. (See Higgins, Clifford B., assignor.)
Higgins, William H. C., Jr., Laporte, Ind. Supplying a combustible mixture to internal-combustion engines. No. 1,423,483; July 18.
Hill, Reuben, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Measuring machine for gauges. No. 1,423,214; July 18.
Hill, Wilford A., Waltham, assignor to B. O. & G. C. Wilson, Inc., Boston, Mass. Pill-counter and bottle-filling machine. No. 1,422,860; July 18.
Hirschberg, Leo, Newark, N. J. Cover for laundry tubs. No. 1,423,215; July 18.
Hoagland, Frank O., assignor to The Bilton Machine Tool Company, Bridgeport, Conn. Oil cup. No. 1,423,112; July 18.
Hocker, Carl D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Liquid coating composition. No. 1,422,861; July 18.
Hofmann, Emil G., Chicago, Ill. Toy sprinkler. No. 1,422,862; July 18.
Holle, Alexander A., Hyde Park, London, England. Screw propeller and the like. No. 1,423,113; July 18.
Holliday, James M., Hollister, Mo. Well bucket. No. 1,423,424; July 18.
Holt, Charles A., Cambridge, assignor to Union Industrial Company, Boston, Mass. Spinning ring. No. 1,423,216; July 18.
Holt, Harold E. S., Farnborough, England. Landing light or flare for attaching to aircraft. No. 1,423,226; July 18.
Holtsclaw, Sidney, Kansas City, Kans. Cigarette case. No. 1,422,975; July 18.
Hoof, Addison C., Chicago, Ill. Steel cushion wheel. No. 1,422,976; July 18.
Hook, C. Howard. (See Miller, Arnold W., assignor.)
Hoover Suction Sweeper Company, The. (See Spangler, James M., assignor.)
Hopkins, Matthew S., Reading, Pa. Compound of lime and sulphur stabilised with an aromatic compound. No. 1,422,977; July 18.
Horton, Theodore, Albany, N. Y. Gas meter. No. 1,423,217; July 18.
Hough, Samuel, Atco, assignor of one-fourth to R. P. Levick, Berlin, N. J., and one-fourth to C. J. Richter, Collingswood, N. J. Automatic filler for grease cups. No. 1,422,978; July 18.
House, Everett J., Cleveland, Ohio. Savings and insurance account book. No. 1,423,114; July 18.
Housenman, Christian P., York, Pa. Piston. No. 1,423,425; July 18.
Howath, George O., Morattico, Va. Transmission gear for automobiles. No. 1,423,426; July 18.
Hultberg, Oscar, Seattle, Wash. Wave motor. No. 1,423,115; July 18.
Humphreys, William J. (See Phelps, Lucius J., assignor.)
Huntoon, Charles F., Chicago, Ill. Bake beam. No. 1,422,863; July 18.
Huntress, Harry W., Turlock, Calif. Bank-window shield. No. 1,423,327; July 18.
Hurst, William A., Battle Ground, Ind. Belt buckle. No. 1,423,218; July 18.
Hurter, Henry, assignor to Fulton Iron Works Company, St. Louis, Mo. Cane mill. No. 1,422,979; July 18.
Hutcheson, Earl H., Augusta, Ga. Windshield awning. No. 1,423,116; July 18.
Hutchinson, David M., St. Louis, Mo. Spark plug. No. 1,423,219; July 18.
Hutchinson, Frank L., assignor to Sterling Engineering Co., Milwaukee, Wis. Valve mechanism. No. 1,422,980; July 18.
Hutton, Edward S., Lapel, Ind. Means for controlling discharge from glass tanks. No. 1,423,220; July 18.
Hyatt, Frank S., Brooklyn, N. Y. Tube compressor. No. 1,422,864; July 18.
Hyatt, Frank S., Brooklyn, N. Y. Vanity box. No. 1,422,981; July 18.
Ilex Optical Company. (See Klein, Rudolph, assignor.)
Imperial Furniture Company. (See Applegate, E. B., and Yeomans, assignors.)
Infantino, Benjamin P., New York, N. Y. Tile. No. 1,423,117; July 18.
Ingersoll-Rand Company. (See Lundell, Robert A., assignor.)
International Harvester Company. (See Johnston, E. A., and Mott, assignors.)
International Harvester Company. (See Pearson, Charles, assignor.)
International Motor Company. (See Hewitt, E. R., and Blake, assignors.)
International Motor Company. (See Masury, A. F., and Jessops, assignors.)
Interstate Smelting and Refining Co. (See Blaicher, Ernest C., assignor.)
Invisible Process Co., The. (See Morse, Charles F., assignor.)
Irving-Pitt Manufacturing Company. (See Fargo, C. R., and Unger, assignors.)
Irving-Pitt Manufacturing Company. (See Pitt, F. D., and Newman, assignors.)
Irving-Pitt Manufacturing Company. (See Pitt, Frederick D., assignor.)
Irving-Pitt Manufacturiag Company. (See Pitt, William P., assignor.)
Isley, Robert G., Edinburg, Ind. Cultivator. No. 1,422,982; July 18.
Jansen, Andries W., Geldrop, Netherlands. Apparatus for weaving bicycle and auto canvas. No. 1,423,427; July 18.
Jaques, Emily U., Visalia, Calif. Amusement device. No. 1,423,428; July 18.
Jeffers, Carl H., Kent, Ohio. Locomotive stoker. No. 1,423,221; July 18.
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jobson, Francis S., Mentone, Ala. Burglar gun. No. 1,422,865; July 18.
Johns, Chilion B., Edensburg, Pa. Sand-pipe heater. No. 1,423,429; July 18.
Johnson, Alvin L., Worcester, Mass., assignor to Two Part Rim Co. Inc. Cutting over metal rims. No. 1,423,222; July 18.
Johnson, Ernest N., Winnipeg, Manitoba, Canada. Tie plate for rails. No. 1,422,983; July 18.
Johnson, Harold R., Cranston, R. I. Pencil. No. 1,422,984; July 18.
Johnson, Joseph A., Blue Earth, Minn. Hay-rack lift. No. 1,423,328; July 18.
Johnston, Edward A., Chicago, and C. W. Mott, Berwyn, Ill., assignors, by mesne assignments, to International Harvester Company. Power cultivator. No. 1,422,985; July 18.
Jones, Arthur W. (See Oakford, Frederic, assignor.)
Jones, Laurence E., Wichita Falls, Tex. Counter. No. 1,423,430; July 18.
Jordan, Heinrich, Leverkusen, near Cologne, Germany, assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Cotton dyes. No. 1,422,866; July 18.
Josephs, Lyman C., Jr., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Electric-arc mechanism for searchlights. No. 1,423,497; July 18.
Josephs, Lyman C., Jr. (See Masury, A. F., and Josephs.)
Judy, Robert, Gifford, Ill. Watering trough. No. 1,422,986; July 18.
Kahn Tailoring Company. (See Meissel, Henry A., assignor.)
Kampfe, Otto, Bellmore, assignor of one-half to H. C. Walker, New York, N. Y. Bottle cap. No. 1,423,431; July 18.
Kansas City Spiral Pipe Company, The. (See Colby, Frank W., assignor.)
Karr, Henry C., assignor of one-fifth to E. Bonnelycke, Washington, D. C. Shipping package for watches. No. 1,423,329; July 18.
Karycheff, Vladimir, and P. E. Gagarine, Paris, France. Apparatus for feeding fuel to furnaces. No. 1,422,867; July 18.
Kasch, Frederick C., and G. F. Neff, Akron, Ohio. Mounting for draft regulators. No. 1,422,868; July 18.
Kasley, Alexander T., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Co. Pressure generator. No. 1,423,330; July 18.
Keith, George, and W. A. Whatmough, London, England. Means for controlling the supply of combustible mixture to internal-combustion engines. No. 1,422,987; July 18.
Keller, Karl, assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Lighting fixture. No. 1,423,331; July 18.
Kellogg Manufacturing Company. (See Hazard, George E., assignor.)
Kelly-Springfield Tire Company. (See McClenathen, Robert, assignor.)
Kendechy, Andrew, Cleveland, Ohio. Auto theft protection. No. 1,423,432; July 18.
Kennan, Thomas, Birmingham, Ala. Sealing of cracks in the lining of blast furnaces and the like. No. 1,423,332; July 18.
Kenny, Albert. (See Ostberg, A. J., and Kenny.)
Ketchem, Adolph A., Chicago, Ill. Lamp. No. 1,423,433; July 18.
Kienzl, Raymund, Cleveland, Ohio. Cutting tool. No. 1,422,988; July 18.
Kilbourne & Jacobs Manufacturing Company, The. (See Cotton, J. H., and Burner, assignors.)
Kimball, Robert E., assignor to The Tickometer Company, Cleveland, Ohio. Register-operating mechanism. No. 1,423,333; July 18.
King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,423,118; July 18.
King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,423,223; July 18.
King, James F., Worcester, Mass. Holder for electric lamps and the like. No. 1,423,119; July 18.
Kirk, John L., Waynesboro, Pa. Pocket. No. 1,423,434; July 18.
Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Magneto gearing. No. 1,423,334; July 18.
Klein, Rudolph, assignor to Ilex Optical Company, Rochester, N. Y. Iris diaphragm. No. 1,423,224; July 18.
Klinkhammer, Peter, Los Angeles, Calif. Necktie holder. No. 1,423,498; July 18.
Knick, Glenn R., Troy, Ohio. Record turner for phonographs. No. 1,422,989; July 18.
Knight, Hervey S., et al. (See Bair, Joseph H., assignor.)
Knight, William E., Delaware, Ohio. Dental mirror. No. 1,423,225; July 18.
Koerner, George W. (See Brundage, Harry, assignor.)
Kohler, Conrad, Zurich, Switzerland. Steam boiler with forced-draft furnace. No. 1,423,335; July 18.
Korittke, Gustav, Long Island City, N. Y. Sanitary container. No. 1,423,336; July 18.
Koski, Matt W., Cosmopolis, Wash. Recording speedometer. No. 1,422,990; July 18.
Kothe, Charles A., Galion, Ohio. Low-water alarm. No. 1,422,870; July 18.
Koukos, John. (See Vasiades, G., and Koukos.)
Kränzelin, Georg, Sindlingen, near Hochst-on-Main, and M. Corell, Hochst-on-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-Main, Germany. Esters of dioxydiethyl sulphide and making same. No. 1,422,869; July 18.
Krieger, A. Edward, et al, trustees. (See McArthur, Robert C., assignor.)
Krüger, Paul, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Locking mechanism for the doors of self-discharging receptacles. No. 1,423,120; July 18.
Krüger, Paul, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Dumping car. No. 1,423,121; July 18.
Kruse, Louis W., San Jose, Calif. Coupling. No. 1,422,991; July 18.
Kudner, Joseph, New York, N. Y. Display stand. No. 1,423,226; July 18.
Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Electric connector. No. 1,422,992; July 18.
Kyriazopoulos, James, Lowell, Mass. Confetti bomb. No. 1,423,122; July 18.
Labus, Otto A., Wisconsin Rapids, Wis. Automatic water-cooling system. No. 1,423,337; July 18.
Lackawanna Steel Company. (See Boardman, C. S. and Conkling, assignors.)
Laise, Clemens A., Weehawken, N. J., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Alloy and producing same. No. 1,423,338; July 18.
Lambert, John W., Anderson, Ind. Tractor. No. 1,423,227; July 18.
Lambremont, Charles O., Plaquemine, La. Combination tire and rim. No. 1,423,435; July 18.
Landers, Frary, and Clark. (See Smith, C. F., and Curtiss, assignors.)
Larned, William A., Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio. Elastic metal stringing, and making the same. No. 1,422,993; July 18.
Larsen, Lee, Tampico, Mexico. Combined water jet and suction apparatus and means for operating the same. No. 1,423,436; July 18.
Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Carriage-operating mechanism. No. 1,423,437; July 18.
Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Type carrier. No. 1,423,438; July 18.
Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Sector control for tabulating machines. No. 1,423,439; July 18.
La Societe des Etablissements E. Feuillette. (See Feuillette, Emile, assignor.)
Leach, Philip A., East Brimfield, Mass. Forge clamp. No. 1,423,123; July 18.
Leachman, Edward C., assignor to Pearl Pictorial (Foreign & Colonial) Limited, London, England. Electric-lamp switch. No. 1,423,228; July 18.
Leavitt, Frank S., Melrose, and E. A. Staples, Dorchester, Mass., assignor to Atlas Devices Company, Inc. Identifying means for pneumatic-despatch-tube carriers. No. 1,423,440; July 18.
Ledell, Carl A., Connersville, Ind. Screw gauge. No. 1,423,339; July 18.
Ledwinka, Joseph, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Pressed-steel wheel. No. 1,423,229; July 18.
Lees, Thomas W., Halifax, England. Valve. No. 1,423,340; July 12.
Leger, Oswald C., Los Angeles, Calif. Winding mechanism for spring motors. No. 1,423,230; July 18.
Lemaitre, Lucien, Paris, France. Bolt for spring rings and manufacturing the same. No. 1,423,441; July 18.
Le Merle, Francis G., M. J. Ullman, and J. E. Barry, Washington, D. C. Gasoline electric automobile. No. 1,423,124; July 18.
Lemons, Joseph F., Adams, assignor of one-fourth to W. B. Winters, Adams, and one-fourth to J. Hancock, Springfield, Tenn. Dust gun. No. 1,423,125; July 18.
Lenher, Victor, Madison, Wis., and F. M. Dorsey, Cleveland, Ohio; said Dorsey assignor of his right to General Electric Company. Purifying carbon. No. 1,423,231; July 18.
Levick, Reuben P., et al. (See Hough, Samuel, assignor.)
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric controller. No. 1,423,126; July 18.
Levy, Edward, London, England. Scissors. No. 1,423,127; July 18.
Lewis, W. Cary. (See Gelin, Charles A., assignor.)
Liedtke, Hugo F., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast apparatus. No. 1,423,128; July 18.
Lieser, Leo F., Sidney, Oowa. Attachment for carburetors. No. 1,422,871; July 18.
Ligon, Arthur L., Killeen, Tex. Demountable headstock for lathes. No. 1,422,994; July 18.
Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation. Unit assemblage of motor adjuncts. No. 1,422,995; July 18.
Linotype and Machinery Limited. (See Stern, Carl L., assignor.)
Lippincott, George A., Philadelphia, Pa. Striker plate for golf clubs. No. 1,423,341; July 18.

Lloyd, Edwin C. J., Jeannette, Pa. Box and attachment therefor. No. 1,423,442; July 18.
Lobel, Herman, assignor to Compression Tube & Tire Co., Los Angeles, Calif. Tire. No. 1,423,232; July 18.
Locomotive Stoker Company. (See Osborne, Lonnie E., assignor.)
Loew, Charles H., and J. R. Gruetter, assignors to The Loew Manufacturing Company, Cleveland, Ohio. Label separator and remover for bottle washing apparatus. No. 1,423,342; July 18.
Loew Manufacturing Company, The. (See Loew, C. H., and Gruetter, assignors.)
Loman, John, Bristol, Conn. Watch-chain fastener. No. 1,422,872; July 18.
Long, Stevens P., Birmingham, Ala. Resilient tire. No. 1,422,996; July 18.
Loomis, Rockwell A., Guatemala, Guatemala. Carriage-shifting mechanism for typewriters. No. 1,423,443; July 18.
Ludlum, James G., Bridgeport, Conn. Display roll for flat metal tableware. No. 1,423,483; July 18.
Lundell, Robert A., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Piston and connecting rod construction. No. 1,423,343; July 18.
Lundell, Robert A., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Piston and connecting rod construction. No. 1,423,344; July 18.
Lundsgaard, Christen J. S., Vejen, and K. T. Herbst, Brabrand, Denmark. Explosive material. No. 1,423,233; July 18.
Lynch, John T., Rochester, N. Y. Truck. No. 1,423,234; July 18.
Lynch, Warren O., Berkeley, Calif. Stiffener for folding books. No. 1,423,129; July 18.
McArthur, Robert C., et al., trustees. (See McArthur, Robert C., assignor.)
McArthur, Robert C., Sand Springs, Okla., assignor to W. O. Fredrikson, A. E. Krieger, and R. C. McArthur, trustees, Salamanca, N. Y. Brake rod adjuster. No. 1,423,235; July 18.
McCaa, David G., Palo Alto, Calif., assignor of one-half to Cornelius D. Ehret, Philadelphia, Pa. Signaling method and apparatus. No. 1,423,345; July 18.
McCarty, Homer B., assignor to O-K Elevator Safety Lock Company, Ogden, Utah. Door lock. No. 1,423,484; July 18.
McClain, John B., assignor of one-fifth to R. Meier, Brooklyn, N. Y. Melting pot. No. 1,423,501; July 18.
McClenathen, Robert, assignor to Kelly-Springfield Tire Company, Akron, Ohio. Molding machine. No. 1,423,349; July 18.
McClure, Silas. (See Palmer, Stanley W., assignor.)
McCombs, Charles C., Stephenville, Tex. Check protector. No. 1,423,236; July 18.
McCoy, William C., Wilkinsburg, Pa. Ore concentrator. No. 1,423,130; July 18.
McDonald, William B., Lawrence, Kans. Adjustable hinge. No. 1,423,350; July 18.
McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administrator, assignor to The Purposed Mind Development Security Association of the World. Fire box. No. 1,423,346; July 18.
McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administrator, assignor to The Purposed Mind Development Security Association of the World. Fire box. No. 1,423,347; July 18.
McGahan, Frederick L., deceased., Los Angeles, Calif.; V. K. Walker, administrator, assignor to The Purposed Mind Development Security Association of the World. Fan. No. 1,423,348; July 18.
McGirr, Theodore G., Springfield, Mass. Machine for applying hoods to articles. No. 1,423,237; July 18.
McGregor, Alexander G., Warren, Ariz. Apparatus for handling comminuted material. No. 1,422,997; July 18.
McKibbon, Joe S., Los Angeles, Calif. Wrench. No. 1,423,499; July 18.
McLellan, William, et al. (See Michie, A. C., and Weeks, assignors.)
McNally, John F., and R. A. Bradley, Emporia, Kans. Clutch pulley. No. 1,422,873; July 18.
McNamara, Charles D., Fair Play, Colo. Aeroplane. No. 1,423,131; July 18.
McNaughton, John, New York, N. Y. Mop. No. 1,423,444; July 18.
McNiff, John T., assignor to R. F. McNiff, Waterbury, Conn. Business hours placard. No. 1,423,485; July 18.
McNiff, Raymond F. (See McNiff, John T., assignor.)
McRea, Thomas K. (See Allen, W. R., and McRea.)
Mack, Herman, Hamm, Germany. Extracting coal in mines. No. 1,422,874; July 18.
Madigan, Thomas J., Brooklyn, assignor of one-fourth to J. O. Schwank, New York, N. Y. Sprinkler head. No. 1,422,875; July 18.
Magaldi, E., Naples, Italy. Shoe. No. 1,423,445; July 18.
Magrath, Henry J., London, England. Treatment of water for softening, sterilising, and like purposes. No. 1,423,132; July 18.
Maltby, Frank D., Battle Creek, Mich. Priming and decarbonizing device for internal-combustion engines. No. 1,422,998; July 18.
Manning, Bowman & Company. (See Warner, Maurice L., assignor.)
Marlin Rockwell Corporation. (See Rockwell, Albert F., assignor.)
Martin, Frank H., Carterville, Ill. Automatic railway-switch throw and lock. No. 1,423,351; July 18.
Mason, Max, New London, Conn., assignor to Submarine Signal Company, Portland, Me. Determination of wave-energy direction. No. 1,422,876; July 18.
Masury, Alfred F., New York, N. Y., and L. C. Josephs, Jr., Allentown, Pa., assignors to International Motor Company, New York, N. Y. Leading truck for railway motor cars. No. 1,423,238; July 18.
Mathers, Alexander S., Los Angeles, Calif. Tie device. No. 1,423,133; July 18.
Matheus, Karl, Chicago, Ill. Belt and the like. No. 1,422,999; July 18.
Mattison, Richard V., Ambler, Pa., assignor to Asbestos, Shingle, Slate & Sheathing Company. Asbestos-cement product and forming the same. No. 1,423,000; July 18.
Maxfield, Joseph P., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustical aid for deaf persons. No. 1,422,877; July 18.
Maxwell, Elmer T., Wheeling, W. Va. Paper dish. No. 1,423,001; July 18.
Meconi, Alberto, Munich, Germany, assignor to T. Meconi, Cumberland, Md. Window cleaner. No. 1,423,239; July 18.
Meconi, Tacope. (See Meconi, Alberto, assignor.)
Meier, Richard. (See McClain, John B., assignor.)
Meisel, Charles A., Dorchester, assignor to Meisel Press Manufacturing Company, Boston, Mass. Securing means for printing plates. No. 1,423,486; July 18.
Meisel Press Manufacturing Company. (See Meisel, Charles A., assignor.)
Meissel, Henry A., assignor to Kahn Tailoring Company, Indianapolis, Ind. Spool holder for sewing machines. No. 1,423,487; July 18.
Melidona, Antonio, Niagara Falls, N. Y. Automobile frame. No. 1,423,240; July 18.
Mercier, Henri, Paris, France. Stabilizing means for suspended vehicles. No. 1,423,002; July 18.
Mers, Charles H., et al. (See Michie, A. C., and Weeks, assignors.)
Metz, Hermann, A. (See Schirmacher, Karl, assignor.)
Metzger, Floyd J., assignor to Air Reduction Company, New York, N. Y. Retort. No. 1,422,878; July 18.
Meurer Steel Barrel Company. (See Reynolds, Henry S., assignor.) (Reissue.)
Meyer, Siegfried, New York, N. Y. Ash tray and receptacle. No. 1,422,879; July 18.
Michaelsen, William H., Mount Vernon, N. Y. Mechanical connector. No. 1,422,880; July 18.
Michie, Arthur C., Newcastle-upon-Tyne, and E. G. Weeks, Northumberland, assignors to C. H. Mers and W. McLellan, Westminster, London, England. Low-temperature distillation. No. 1,423,134; July 18.
Milholen, Charles F., Kannapolis, N. C. Ash pan. No. 1,423,352; July 18.
Miller, Arnold W., assignor to C. H. Hook, Pittsburgh, Pa. Relief valve. No. 1,423,135; July 18.
Miller, Dorr. (See Gruenberg, W. A., and Miller.)
Miller Transmission Company, The. (See Gruenberg, W. A., and Miller, assignors.)
Minnick, Warren R., Reading, Pa. Display panel. No. 1,423,003; July 18.
Minshull, Robert, Waterloo, Wis., assignor of one-half to P. B. Goddard, Wilmette, Ill. Stable appliance. No. 1,423,241; July 18.
Minton, Ogden, Greenwich, Conn. Apparatus for maintaining and removing liquid seal for vacuum apparatus. No. 1,423,242; July 18.
Mitchell, William F., Clifton, N. J., assignor of one-half to F. R. Allen, Passaic, N. J. Grease cellar. No. 1,423,502; July 18.
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine frame. No. 1,423,243; July 18.
Moody, John R., Los Angeles, Calif. Hinge. No. 1,423,004; July 18.
Moore, Edward Y., Cleveland, Ohio. Chain shackle and making the same. No. 1,423,244; July 18.
Moore, John R., Chicago, Ill. Tool holder. No. 1,423,245; July 18.
Moore, John T., Atlanta, Ga. Railway switch. No. 1,423,005; July 18.
Morgan, Harry B., St. Louis, Mo. Shock absorber. No. 1,423,006; July 18.
Morner, Dora, Stevens Point, Wis. Sanitary belt. No. 1,423,353; July 18.
Morse, Charles F., assignor to The Invisible Process Co., Cleveland, Ohio. Invisible ink. No. 1,423,246; July 18.
Morton, Samuel S., Harrisburg, Pa. Intermittent-grip device. No. 1,423,007; July 18.
Morton, Samuel S., Harrisburg, Pa. Transmission mechanism. No. 1,423,008; July 18.
Mothersill, Thomas B. (See Grikscheit, William, assignor.)
Mott, Carl W. (See Johnston, E. A., and Mott.)
Muckenbirn, Charles H., Detroit, Mich. Mechanical batter. No. 1,423,009; July 18.
Mueller, L. J., Furnace Company. (See Buller, Charles M., assignor.)
Mueller, Moritz L., Seattle, Wash., assignor to Northwest Blower Kiln Co. Drying kiln. No. 1,423,136; July 18.
Mumford, John, Chillicothe, Ohio. Wrench. No. 1,423,247; July 18.
Murphy, Walter P. (See Bonsall, Charles D., assignor.)

Murphy, Walter P., New York, N. Y. Corrugated-sheet-metal car end. No. 1,422,881; July 18.
Murray, Milton, Williams Wharf, Va. Make-and-break ignition device. No. 1,423,137; July 18.
National Airless Tire Company. (See Braden, Charles H., assignor.)
National Biscuit Company. (See Beers, F., and Powell, assignors.)
National Brake & Electric Company. (See Aikman, Burton S., assignor.)
Needy, William H. H., Hagerstown, Md. Balance staff for timepieces. No. 1,423,446; July 18.
Neff, George F. (See Kasch, F. C., and Neff.)
Neviczky, Eleanor H., McKeesport, Pa. Safety gas valve. No. 1,423,010; July 18.
New York Mackintosh Clothing Co. (See Geis, Leopold H., assignor.)
Newman, Charles L., Berkeley, Calif. Parachute. No. 1,423,248; July 18.
Newman, George W. (See Pitt, F. D., and Newman.)
Nicholas Power Company. (See Power, Nicholas, assignor.)
Nichols, George T., assignor of one-tenth to J. P. Walling, Gainesville, Tex. Automobile wheel rim. No. 1,423,354; July 18.
Nichols, Harold W., Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, Radio transmission. No. 1,422,882; July 18.
Nilell, Magnus, Stockholm, Sweden. Photographic-roll-film spool. No. 1,423,355; July 18.
Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
Nipper, William R., Grants Pass, Oreg. Fruit-jar cover. No. 1,422,883; July 18.
Noble, Eldridge H., deceased, Waukegan, Ill., W. J. Smith, administrator. Oil can. No. 1,423,503; July 18.
Noé, Samuel B., Ocean Grove, N. J. Maximum-pressure inflating valve and gauge. No. 1,423,447; July 18.
Northwest Blower Kiln Co. (See Mueller, Moritz L., assignor.)
Norton, George F., and E. A. Ende, Mayville, Wis. Corn-snapping mechanism for silo fillers. No. 1,423,138; July 18.
O-K Elevator Safety Lock Company. (See McCarty, Homer B., assignor.)
Oakford, Frederic, Philadelphia, assignor of one-half to A. W. Jones, Germantown, Philadelphia, Pa. Humidor. No. 1,423,356; July 18.
O'Brien, James H., Manchester, N. H. Fire shutter for moving-picture machines. No. 1,423,139; July 18.
O'Connor, James A., Bridgeport, Conn. Fountain pen. No. 1,423,448; July 18.
Olesberg, Oluf E., Bawlf, Alberta, Canada. Brush and chopping ax. No. 1,423,140; July 18.
Olivetti, Camillo, Ivrea, Italy. Magneto electric machine. No. 1,423,141; July 18.
O'Neill, Frank, Jr., Philadelphia, Pa. Fibrous-plant-decorticating machine. No. 1,423,357; July 18.
Ophelm, Torgils S., Everett, Wash. Automobile direction signal. No. 1,423,249; July 18.
Osborne, Lonnie E., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Lubricator. No. 1,423,011; July 18.
Oshkosh, Roy, assignor of one-fourth to S. W. Randolph, Manitowoc, Wis. Sectional radiator. No. 1,423,449; July 18.
Ostberg, Anders J., and A. Kenny, Richmond, near Melbourne, Victoria, assignor to The Standard Rubber Works Proprietary, Limited, Melbourne, Victoria, Australia. Manufacture of sponge rubber. No. 1,422,884; July 18.
Otterstedt, Hans C., Svalof, Sweden. Production of oat groats and the like. No. 1,423,450; July 18.
Ottinger, Leon, New York, N. Y. Fastening device. (Reissue.) No. 15,412; July 18.
Ottolenghi-Wedekind, Herta, Genova, Italy. Manufacturing design cards. No. 1,422,885; July 18.
Owens, Percy R., Mount Kisco, N. Y. Temperature-controlling system. No. 1,422,886; July 18.
Owens, Ralph H., Lincoln, Nebr. Wrench. No. 1,423,142; July 18.
Pagé, Victor W., New York, N. Y. Spring suspension. No. 1,423,451; July 18.
Palmer, Stanley W., assignor to S. McClure, Beaver Dam, Wis. Hinge for stoves and ranges. No. 1,423,012; July 18.
Pangborn Corporation. (See Liedtke, Hugo F., assignor.)
Paragon Can & Cap Company Inc. (See Anderson, Gustave F., assignor.)
Parkinson, Harold, Wilmington, Del. String holding and cutting adjustment for rivet-setting machines. No. 1,423,250; July 18.
Patterson, Marcus, Brooklyn, N. Y. Strip for floor coverings and the like. No. 1,423,143; July 18.
Paul, Raymond W., Pike Road, N. C. Back band. No. 1,423,144; July 18.
Payne, William F., Stratford, Ontario, Canada. Furnace. No. 1,423,145; July 18.
Pearl Pictorial (Foreign & Colonial) Limited. (See Leachman, Edward C., assignor.)
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Automatic mower pitman. No. 1,423,013; July 18.
Peckham, John W., Parkston, S. Dak. Stereotype-casting frame. No. 1,423,146; July 18.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,423,358; July 18.
Pembor, Thomas J. (See Watt, Frederick, assignor.)
Penn-Greg Mfg. Co. (See Pennig, Bernard T., assignor.)
Pennig, Bernard T., assignor to Penn-Greg Mfg. Co., St. Paul, Minn. Mail box in house walls. No. 1,423,351; July 18.
Perry, George R., Washington, D. C. Key holder. No. 1,423,147; July 18.
Perry, Raymond A., Oakland, Calif. Dirigible headlight for vehicles. No. 1,423,148; July 18.
Peruzzi, Mario, Wilkes-Barre, Pa. Nut-salting machine. No. 1,423,014; July 18.
Pfister, Charles C., Pawnee Rock, Kans. Extension feeder and thrasher. No. 1,423,149; July 18.
Phelps, Lucius J., Los Angeles, assignor of one-half to W. J. Humphreys, San Gabriel, Calif. Homogenizer. No. 1,423,488; July 18.
Phillips, Raymond H., Trenton, N. J. Mat. No. 1,422,887; July 18.
Pitt, Frederick D., and G. W. Newman, assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo. Temporary binder. No. 1,423,015; July 18.
Pitt, Frederick D., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Book-cover-attaching means. No. 1,423,017; July 18.
Pitt, William P., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Binder. No. 1,423,016; July 18.
Pitt, William P., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Cover-attaching means for books. No. 1,423,018; July 18.
Plaisted, Harold M. (See Williams, Milton F., assignor.)
Platt, James R., Hartford, Ark. Mechanic's rule and pencil holder. No. 1,423,359; July 18.
Pogue, Webster V., Mount Vernon, N. Y. Compass scale. No. 1,423,019; July 18.
Pokorny, James T., Cedar Bayou, assignor of one-half to A. T. Eddingston, Port Arthur, Tex. Molding machine. No. 1,423,020; July 18.
Pole and Tube Works, Inc., The. (See Schwarz, G. H., and Vintscher, assignors.)
Pomeroy, Ralph E. H., Canton, Ohio. Treating pulverized fuel. No. 1,423,150; July 18.
Popper, Isaac C., assignor to Basic Products Corporation, New York, N. Y. Collapsible field stove. No. 1,423,252; July 18.
Post, Truman W., New York, N. Y., assignor to Willys Corporation, Toledo, Ohio. Headlight. No. 1,423,253; July 18.
Potash Extraction Corporation. (See Glaeser, Walter, assignor.)
Powell, Earl J. (See Griswold, R. H., and Powell.)
Powell, Howard L. (See Beers, F., and Powell.)
Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Motion-picture machine. No. 1,423,452; July 18.
Power Specialty Company. (See Foster, Ernest H., assignor.)
Powers Accounting Machine Company. (See Lasker, William W., assignor.)
Pratt & Whitney Company. (See Hill, Reuben, assignor.)
Preston, Carleton B., Providence, R. I. Attachment for phonographs. No. 1,423,360; July 18.
Prestwich, Ernest. (See Prestwich, Wright and E.)
Prestwich, Wright and E., Lawrence, Mass. Removable handle mechanism for brushes or brooms. No. 1,423,151; July 18.
Proctor & Schwartz, Incorporated. (See Ayres, E. B., and Rhoads, assignors.)
Pupiett, Thomas J., Manchester, England. Internal-combustion turbine. No. 1,423,453; July 18.
Purposed Mind Development Security Association of the World, The. (See McGahan, Frederick L., assignor.)
Quaker Oats Company, The. (See Ferguson, John L., assignor.)
Raible, John R., assignor to The Greif Brothers Cooperage Company, Cleveland, Ohio. Barrel. No. 1,423,254; July 18.
Randolph, Samuel W. (See Oshkosh, Roy, assignor.)
Rath, Joseph J., assignor to The Available Truck Company, Chicago, Ill. Leaf-spring connection. No. 1,423,255; July 18.
Reeves, Leslie C., Pitman, and M. A. Webb, Jr., Camden, N. J. Exercising device. No. 1,422,888; July 18.
Refrigerating Specialties Company. (See Hanson, Charles C., assignor.)
Reiser, Reynold J., Kenosha, Wis. Transmission mechanism. No. 1,423,454; July 18.
Remington Typewriter Company. (See de Clamecy, Philippe, assignor.)
Remus, Stefano, Genoa, Italy. Sparking plug for internal-combustion engines. No. 1,423,152; July 18.
Reynolds, Henry S., Brooklyn, assignor to Meurer Steel Barrel Company, Inc., New York, N. Y. Spout for metallic receptacles. (Reissue.) No. 15,413; July 18.
Reynolds, Morley P., assignor to The W. S. Tyler Company, Cleveland, Ohio. Screening apparatus. No. 1,423,021; July 18.
Rhoads, Thomas H. (See Ayres, E. B., and Rhoads.)
Rice, Arthur L., deceased, Adams, N. Y.; C. S. Rice, executrix. Water paint. No. 1,423,256; July 18.

236—	12:	1,423,880	244—	12:	1,423,681	251—	94:	1,424,088	265—	62:	1,423,660	287—	54:	1,423,927	296—	81:	1,423,908
238—	4:	1,423,893		14:	1,424,055		167:	1,424,094	268—	20:	1,423,817		93:	1,423,788		116:	1,423,916
	12:	1,423,703		15:	1,424,130	254—	103:	1,423,834	271—	2:	R. 15,419		103:	1,423,849		145:	1,423,665
	91:	1,423,600		19:	1,423,636		109:	1,423,671		61:	1,423,835	292—	60:	1,424,107	298—	19:	1,423,638
	207:	1,423,594		21:	1,423,611		139:	1,423,971		79:	1,423,952		113:	1,423,773	299—	86:	1,423,989
	330:	R. 15,421			1,423,789		190:	1,423,550		87:	1,423,647		205:	1,423,562	301—	11:	1,424,019
	347:	1,423,702		29:	1,423,610		192:	1,424,075	274—	1:	1,423,523		228:	1,424,048		17:	1,423,574
240—	1:	1,423,882			1,424,049	255—	19:	1,424,109			1,424,023		322:	1,423,881		20:	1,424,063
	2:	1,423,755			1,424,143		64:	1,423,713		27:	1,424,087	293—	25:	1,423,604		21:	1,424,078
	7:	1,424,047		30:	1,424,096	257—	1:	1,424,097		35:	1,423,707		55:	1,423,570		31:	1,423,942
	8, 5:	1,423,911	245—	8:	1,423,918		26:	1,423,662	278—	8:	1,423,682			1,423,571		33:	1,423,811
	85:	1,423,646	246—	3:	1,423,989		187:	1,423,794		43:	1,424,054			1,423,572		34:	1,424,073
		1,423,683		41:	1,423,862		246:	1,423,695	279—	97:	1,423,596			1,423,573		37:	1,423,604
		1,424,096		428:	1,423,955	260—	108:	1,423,980	280—	14:	1,424,011			1,423,574			1,423,566
	123:	1,423,645	247—	3:	1,423,907		122:	1,424,138		23:	1,423,732			1,423,804		44:	1,423,519
241—	8:	1,424,110	248—	2:	1,423,843	262—	9:	1,424,113		33, 5:	1,424,120			1,424,014		63:	1,423,598
	9:	1,423,684		41:	1,423,726			1,424,114		33, 44:	1,423,796	294—	17:	1,423,781	302—	42:	1,424,053
	12:	1,423,749	250—	27:	1,424,091	265—	17:	1,423,841		89:	1,423,820		60:	1,423,775	303—	6:	1,424,007
242—	55:	1,424,116		34:	1,423,635			1,423,842	282—	27:	1,423,808	295—	50:	1,423,677		36:	1,424,033
	99:	1,423,516			1,423,924		39:	1,423,885	283—	58:	1,423,744	296—	28:	1,423,931	304—	17:	1,423,906
	121:	1,423,824		38:	1,424,141		45:	1,424,108	285—	142:	1,423,754		45:	1,424,081		34:	1,423,725
244—	1:	1,423,967	251—	27:	1,423,966		55:	1,423,772	287—	14:	1,423,535		63:	1,423,912	305—	13:	1,424,096

C

CLASSIFICATION OF PATENTS

ISSUED JULY 25, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 15: 1,423,778
2— 9: 1,423,546
54: 1,424,013
102: 1,423,543
106: 1,423,329
122: 1,423,668
4— 5: 1,423,634
1,423,888
35: 1,424,022
5— 13: 1,423,954
41: 1,423,804
55: 1,423,633
1,423,664
1,424,089
58: 1,423,663
63: 1,423,665
6— 4: 1,423,883
9— 11: 1,423,561
17: 1,423,633
22: 1,423,739
10— 123: 1,423,945
12— 10: 1,423,613
47: 1,423,743
136: 1,423,740
15— 8: R. 15,423
24: 1,423,844
122: 1,423,992
16— 19: 1,423,700
21: 1,424,028
55: 1,423,784
85: 1,423,521
120: 1,424,052
168: 1,423,812
191: 1,423,513
18— 27: 1,423,606
38: 1,423,761
50: 1,423,525
1,423,536
53: 1,423,760
19— 48: 1,424,021
20— 1: 1,423,949
40: 1,424,043
42: 1,423,629
89: 1,423,857
22— 201: 1,423,654
224: 1,423,590
23— 1: 1,423,786
1,423,767
11: 1,423,719
1,423,720
1,423,721
13: 1,423,605
1,423,711
1,424,005
21: 1,423,799
22: 1,423,510
24: 1,423,753
1,424,137
28: 1,423,978
24— 3: 1,424,139
12: 1,424,006
40: 1,423,782
67: 1,423,520
88: 1,423,513
115: 1,423,785
1,423,868
131: 1,423,530
134: 1,424,084
200: 1,423,639
241: 1,423,974
248: 1,424,103
240: 1,423,678
25— 121: 1,423,708
128: 1,423,983
27— 17: 1,423,848
28— 59: 1,424,100
67: 1,423,864
71: 1,424,124
29— 84: 1,423,795
87: 1,423,556
148: 1,423,509
159: 1,423,747
30— 1: 1,423,756
13: 1,423,791
31— 65: 1,424,117
32— 30: 1,423,628
33— 3: 1,423,859
64: 1,423,809
138: 1,424,085
178: 1,423,542
1,424,082
180: 1,424,087
190: 1,423,903
206: 1,423,529
34— 5: 1,423,818
24: 1,423,728
26: 1,423,800
36— 42: 1,423,787
37— 11: 1,424,093
27: 1,423,676
40— 2: 1,423,763
11: 1,423,555
20: 1,423,938
27: 1,423,557
105: 1,423,920
132: 1,423,641
133: 1,423,648
42— 60: 1,423,836
43— 61: 1,423,715
45— 2: 1,423,953
134: 1,423,714
46— 24: 1,423,900
35: 1,423,566
40: 1,424,015
45: 1,423,618
1,423,819
56: 1,424,038
47— 18: 1,423,906
30: 1,423,979
39: 1,423,659
46: 1,424,077
48— 107: 1,424,142
126: 1,423,975
173: 1,424,042
180: 1,423,579
49— 2: 1,423,957
51— 29: 1,424,035
53— 3: 1,423,547
55— 39: 1,423,865
56— 259: 1,423,999
443: 1,424,122
58— 116: 1,424,092
59— 9: 1,424,029
61— 6: 1,423,640
49: 1,423,884
70: 1,423,923
62— 43: 1,423,532
64— 24: 1,423,850
1,423,851
36: 1,423,950
49: 1,423,666
95: 1,423,577
97: 1,424,051
65— 57: 1,424,040
66— 4: 1,424,072
9: 1,424,025
68— 3: 1,423,762
30: 1,423,823
70— 14: 1,423,656
16: 1,423,825
31: 1,423,509
46: 1,423,553
1,424,136
54: 1,423,691
90: 1,424,105
108: 1,424,046
113: 1,423,840
128: 1,423,955
129: 1,423,632
71— 1: R. 15,417
72— 1: 1,423,779
101: 1,423,991
116: 1,423,879
122: 1,423,989
130: 1,423,536
73— 21: 1,423,890
30: 1,423,597
31: 1,423,565
82: 1,423,544
120: 1,423,558
74— 7: 1,423,675
14: 1,423,871
74— 14: 1,423,972
1,423,973
17: 1,423,614
26: 1,423,827
1,424,027
50: 1,423,531
51: 1,423,528
54: 1,424,045
56: 1,423,602
81: 1,424,081
99: R. 15,420
R. 15,434
108: 1,423,615
1,423,616
109: 1,423,943
75— 1: 1,423,922
45: 1,423,847
81— 41: 1,423,774
121: 1,424,099
139: 1,423,723
165: 1,423,793
1,423,803
83— 6: 1,423,867
26: 1,424,026
44: 1,423,783
73: 1,423,853
1,424,102
80: 1,423,751
88: 1,423,777
85— 23: 1,424,058
50: 1,424,008
87— 9: 1,423,512
88— 16.8: 1,423,697
17: 1,423,948
19.5: 1,423,770
24: 1,423,997
47: R. 15,425
27: 1,424,125
89— 1: 1,423,757
40: 1,424,105
90— 12: 1,423,511
18: 1,423,563
51: 1,423,567
91— 46: 1,423,555
92— 73: 1,423,999
93— 36: 1,424,018
95— 88: 1,424,062
96— 5: 1,423,587
97— 30: 1,424,128
98— 33: 1,423,814
99— 5: 1,423,830
10: 1,424,132
101— 165: 1,423,589
232: 1,423,792
102— 26: 1,423,551
39: 1,424,112
103— 44: 1,423,766
60: 1,423,937
80: 1,423,935
97: 1,423,759
148: 1,423,852
179: 1,424,004
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105— 174: 1,423,895
177: 1,423,947
202: 1,423,752
106— 10: 1,424,120
14: 1,423,985
34: 1,423,569
109— 1: 1,423,652
113— 1: 1,423,903
38: 1,423,617
82: 1,423,691
111: 1,423,581
114— 126: 1,423,789
235: 1,423,576
115— 21: 1,424,044
116— 16: 1,423,554
32: 1,423,905
43: 1,423,588
47: 1,423,730
116: 1,423,727
125: 1,423,627
117— 28: 1,423,801
48: 1,423,776
119— 53: 1,423,915
61: 1,423,552
142: 1,423,706
120— 18: 1,423,603
74: 1,423,910
121— 137: 1,423,688
1,423,797
122— 292: 1,423,540
421: 1,423,836
123— 31: 1,423,705
59: 1,423,858
73: 1,423,578
74: 1,423,690
143: 1,424,056
149: 1,423,672
1,423,734
1,423,735
175: 1,423,718
188: 1,423,876
197: 1,424,002
126— 30: 1,423,612
39: 1,423,951
73: 1,424,041
85: 1,423,651
127— 9: 1,423,610
1,423,928
128— 295: 1,423,537
318: 1,423,866
129— 16: 1,424,080
130— 5: 1,424,060
22: 1,424,119
131— 2: 1,423,620
12: 1,423,869
20: R. 15,422
51: 1,423,507
1,423,538
132— 7: 1,424,030
14: 1,423,679
22: 1,423,644
51: 1,423,606
78.5: 1,423,745
134— 26: 1,423,821
137— 70: 1,424,001
75: 1,424,057
77: 1,423,902
139: 1,423,831
1,423,988
1,424,140
139— 7: 1,423,619
72: 1,423,524
81: 1,423,729
85: 1,423,670
141— 11: 1,423,548
143— 52: 1,423,621
68: 1,424,030
144— 26: 1,423,957
1,423,961
1,423,968
297: 1,423,933
303: 1,424,034
145— 31: 1,423,543
76: 1,423,722
146— 5: 1,423,790
11: 1,423,980
1,424,133
14: 1,424,022
150— 1.5: 1,423,891
38: 1,423,669
40: 1,423,909
1,424,121
47: 1,423,539
151— 25: 1,423,746
152— 1: 1,423,549
1.2: 1,423,873
5: 1,423,580
1,423,748
8: 1,423,733
1,424,086
10: 1,423,674
12: 1,423,515
1,423,541
13: 1,423,771
1,424,131
1,424,135
14: R. 15,418
1,423,564
152— 14: 1,423,963
16: 1,423,692
32: 1,424,101
33: 1,423,976
1,423,977
153— 1.5: 1,423,984
13: 1,423,586
80: 1,423,545
154— 2: 1,424,020
10: 1,423,870
12: 1,424,134
14: 1,423,939
16: 1,423,837
1,423,838
43: 1,423,517
155— 9: 1,423,946
28: 1,423,661
51: 1,423,855
73: 1,423,995
101: 1,423,508
138: 1,423,951
143: 1,423,594
1,424,031
157— 1: 1,423,575
158— 36: 1,423,764
1,423,913
75: 1,423,660
115: 1,423,750
161— 10: 1,424,079
164— 23: 1,423,630
29: 1,423,917
38: 1,424,012
1,423,798
1,424,005
73: 1,424,050
82: 1,423,828
90: 1,423,690
113: 1,423,738
166— 18: 1,423,625
167— 3: 1,424,111
170— 10: 1,423,514
158: 1,423,964
170: 1,423,717
171— 97: 1,424,003
119: 1,423,518
1,423,839
1,423,926
321: 1,423,996
337: 1,424,070
172— 274: 1,423,968
281: 1,423,969
175— 183: 1,423,622
356: 1,424,016
176— 36: 1,423,956
177— 314: 1,423,601
178— 6: 1,423,737
179— 9: 1,423,998
18: 1,423,997
1,423,999
91: 1,423,930
171: 1,424,055
180— 9.2: 1,423,642
12: 1,423,962
17: 1,423,758
1,423,940
1,423,941
1,424,118
26: 1,423,731
50: 1,423,736
181— 27: 1,423,802
1,423,832
182— 10: 1,423,925
183— 117: 1,423,704
121: 1,423,696
184— 13: 1,423,677
187— 52: 1,423,919
188— 5: 1,423,846
78: 1,423,901
79: 1,424,089
88: 1,423,687
1,423,994
213: 1,423,992
259: 1,423,780
189— 31.4: 1,423,924
62: 1,423,982
191— 12: 1,423,889
191— 42: 1,423,582
60.1: 1,423,575
192— 53: 1,423,631
107: 1,423,333
113: 1,424,036
193— 29: 1,423,986
40: 1,423,872
194— 1: 1,424,074
196— 21: 1,423,527
1,423,716
26: 1,423,709
1,423,710
1,423,712
197— 80: 1,423,687
126: R. 15,426
198— 12: 1,423,609
15: 1,423,533
21: 1,423,856
26: 1,423,816
52: 1,423,649
72: 1,423,854
118: 1,423,878
154: 1,423,765
176: 1,424,090
1,424,126
213: 1,423,698
232: 1,423,990
200— 47: 1,423,624
90: 1,423,907
204— 5: 1,423,584
11: 1,423,815
17: 1,423,686
29: 1,424,144
22: 1,423,658
33: 1,423,994
206— 36: 1,423,657
210— 58: 1,423,970
67: 1,423,583
211— 2: 1,424,017
14: 1,423,585
16: 1,424,054
27: 1,423,861
28: 1,423,845
32: 1,423,701
34: 1,423,921
212— 59: 1,423,724
213— 64: 1,423,522
214— 18: 1,424,010
51: 1,423,987
215— 31: 1,423,560
40: 1,423,592
90: 1,423,593
106: 1,424,076
217— 47: 1,423,595
48: 1,423,863
125: 1,424,009
218— 15: 1,423,626
219— 8: 1,423,914
19: 1,423,805
63: 1,423,742
76: 1,424,088
220— 8: 1,423,673
1,424,099
24: 1,423,822
85: 1,424,058
86: 1,424,037
221— 102: 1,424,104
121: 1,423,932
29: 1,423,699
226— 127: 1,423,944
228— 40: 1,424,115
229— 7: 1,424,127
46: 1,424,071
47: 1,423,936
68: 1,423,653
85: 1,424,024
92.9: 1,423,886
230— 11: 1,423,993
27: 1,424,123
31: 1,423,607
37: 1,423,559
234— 36: 1,423,805
235— 59: 1,423,637
1,423,741
84: 1,423,896
95: 1,424,000

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Peanuts, Salted. California Peanut Company. No. 159,010; July 25.
Pencils. Brown & Bigelow. Nos. 164,486–7; July 25.
Pens and fountain pens. Esterbrook Steel Pen Mfg. Co. No. 155,741; July 25.
Perfume, face powder, talcum, lip sticks, etc. G. T. Hastings. Nos. 162,000–1; July 25.
Petrolatum, petrolatum greases and oils. Standard Oil Company, (Incorporated in New Jersey). No. 161,279; July 25.
Pharmaceutical preparations for faulty digestion. Comer, Fetterly & Co. No. 161,719; July 25.
Phonograph needles. Tonepen Company. No. 161,015; July 25.
Phonograph records. Cameo Record Corporation. No. 159,143; July 25.
Physical and meteorological instruments, registering instruments, etc. Scintilla. No. 136,044; July 25.
Piano rolls, Player-. Plaza Music Co. No. 164,771; July 25.
Picture films, Motion-. Buck Mix Productions, Inc. No. 160,655; July 25.
Piece goods of silk, cotton, wool, and hairs. Bianchini, Férier. Nos. 165,005–7; July 25.
Pills having laxative and tonic properties. Trust Estate of Adolph C. Meyer. No. 161,462; July 25.
Pins, hooks and eyes, and snap fasteners. N. Solow. No. 154,999; July 25.
Pipes, cigar and cigarette holders, pipe cleaners, etc., Smoking. Dasco Import Co. No. 163,215; July 25.
Polish, Metal. Sum-Shine Polish Co. No. 149,363; July 25.
Powder and perfumes, Face. Lay Rité Laboratory. No. 161,841; July 25.
Powder, Foot. C. E. Rogers. No. 150,290; July 25.
Powder preparation for use as a body deodorant. O. S. Rimer. No. 161,896; July 25.
Powder puffs. J. H. Calisher. No. 161,974; July 25.
Powders, almond lotion, cold cream, etc., Face and talc. Rogers Brothers. No. 161,453; July 25.
Preparation for controlling stubborn hair, Liquid. R. Odell & Sons Company. No. 161,940; July 25.
Preparation for the treatment of coughs, bronchitis, croup, etc. E. F. White. No. 159,301; July 25.
Preparation for the treatment of the hair and scalp. G. I. Sampson. No. 161,946; July 25.
Preparation for treatment of lung trouble. J. B. Nichols. No. 159,280; July 25.
Preparation used for gargling. P. J. Schlichtmann. No. 161,757; July 25.
Publication, Monthly. W. M. Van Sant. No. 155,649; July 25.
Publication, Monthly. Dog World Publishing Co. No. 161,823; July 25.
Publications, Periodical. Hatfield Electric Company. No. 163,497; July 25.
Pulp stones for wood-pulp-working machines, machinery, and tools, and parts thereof. Smallwood Stone Company. No. 154,387; July 25.
Pumps, Rotary and centrifugal. J. B. Jensen. No. 144,526; July 25.
Radioreceiving apparatus. Martin Schweibold and Jacob Schweibold. No. 160,156; July 25.
Ranges and stoves, Gas and coal. Tappan Stove Company. No. 161,393; July 25.
Rats, mice, and vermin, Chemical exterminators for. T. D. Kain. No. 143,095; July 25.
Razor strops. Herrfeld-Phillipson Company. No. 126,029; July 25.
Razors, shears, and files. E. T. Goldberg. No. 146,433; July 25.
Recipes. S. M. Morgan. No. 161,443; July 25.
Refrigerators and ice boxes. Johnson-Randall Co. No. 163,400; July 25.
Rubber heels. Armstrong Cork Company. No. 160,040; July 25.
Rubber heels for shoes. Holtite Manufacturing Co. No. 159,799; July 25.
Salts, medicinal bath salts, nasal douche, gargle, and cattle salts. Biosone Syndicate Limited. No. 154,474; July 25.
Sheeting, Cotton. American Company for International Commerce. No. 161,102; July 25.
Shirting in the piece, Cotton. Burton Bros. & Co. No. 160,531; July 25.
Shirts. Banner Shirt Co. No. 145,054; July 25.
Shoe creams. Henry Skantze & Co. No. 158,016; July 25.
Shoes. Morse & Burt Co. No. 161,441; July 25.
Shoes, Leather. T. D. Barry Company. No. 161,023; July 25.
Shoes, Leather. A. T. Lewis & Son Dry Goods Company. No. 161,927; July 25.
Silk, cotton, and fiber textiles and mixtures thereof. J. Koike. No. 163,338; July 25.
Silk, cotton and silk, and cotton goods in the piece. Oriental Silk Printing Company. No. 162,436; July 25.
Silk in the piece. Jansen & Pretzfeld. No. 164,646; July 25.
Silk piece goods. H. R. Mallinson & Co. No. 164,934; July 25.
Silk, satin, and crêpe piece goods. Hess, Goldsmith & Co. No. 162,406; July 25.
Silver compound, Methylene-blue. E. Merck. No. 161,849; July 25.
Silver preparation combined with sodium cholate as protective colloid, Colloidal. E. Merck. No. 161,848; July 25.
Sirup for beverage purposes, Barley-malt. M. Finkelstein. No. 163,685; July 25.
Sirup for beverage purposes, Barley-malt. M. Finkelstein. No. 163,687; July 25.
Sirup for beverage purposes, Hop and malt. M. Finkelstein. No. 163,686; July 25.
Sirup for cough and catarrh. F. E. Loës. No. 162,120; July 25.
Sirup, Malt. Bear Hops, Malt & Extract Co. No. 161,717; July 25.
Sirups for making soft drinks, Nonalcoholic, maltless fruit. Logan-Johnson, Ltd. No. 158,189; July 25.
Size for use in connection with woolen warps and for finishing textile piece goods. Liverpool Borax Co. No. 161,135; July 25.
Skirts, Outer. Goldstein & Levin. No. 150,105; July 25.
Soap, Laundry. Los Angeles Soap Co. No. 148,745; July 25.
Soap products. Kendall Products Corporation. No. 159,659; July 25.
Soaps, scrubbing compounds, metal polish, etc. Midland Chemical Laboratories. No. 151,954; July 25.
Souvenir or favor containers. B. Shackman & Co. No. 164,127; July 25.
Steering wheels for motor vehicles. Fold-O-Lock Steering Wheel Mfg. Corp. No. 163,868; July 25.
Stucco. Atlas Portland Cement Company. No. 163,075; July 25.
Suits, Men's and boys'. Alexander Wolff & Co. No. 155,286; July 25.
Sulphates, chlorides, and acetates of metals, refined tar, perfumes, etc. Thomas Hubbuck & Son. No. 123,579; July 25.
Sweaters, bathing suits, caps, and gloves. Lamb Knit Goods Co. No. 158,480; July 25.
Tablet, Liver. H. L. Asselin. No. 160,842; July 25.
Tablets, Laxative. David H. Fulton & Bro. Nos. 161,725–6; July 25.
Talking and dictating machines, and records for talking machines. Vox-Schallplatten- und Sprechmaschinen-Aktiengesellschaft. No. 160,167; July 25.
Talking machines and phonograph needles, Needles for. General Phonograph Corporation. No. 164,105; July 25.
Talking machines and phonographs. Sonora, Inc. No. 160,779; July 25.
Tapes, elastic webbing, dress belting, Binding. Kranish Bros. No. 160,554; July 25.
Textile fabrics, Worsted and woolen. Holden-Leonard Company. No. 165,019; July 25.
Tobacco and cigarettes, Smoking. John Sinclair Ltd. No. 162,143; July 25.
Tobacco, cigarettes, cigars, and snuff. J. Wix. No. 165,248; July 25.
Tobacco, Smoking and chewing. Excelsior Tobacco Co. No. 141,000½; July 25.
Toilet and pharmaceutical preparations. Auld Acquaintance Co. No. 159,334; July 25.
Toilet preparations. J. M. Abousseleman. No. 161,344; July 25.
Toilet specialties. Misner Manufacturing Co. No. 162,032; July 25.
Tooth paste. United States Dental Specialty Co. No. 161,288; July 25.
Toothbrushes. Decoater Company. No. 162,921; July 25.
Toy catapults and targets. C. R. Stewart. No. 161,154; July 25.
Toy flying machine. B. Carlisle. No. 150,729; July 25.
Toys, Mechanical. Wolverine Supply and Manufacturing Company. Nos. 160,222–4; July 25.
Umbrellas and parasols. C. Stein. No. 158,159; July 25.
Undergarments, negligees, and corsets, Ladies' silk. Samek & Lobel. No. 156,602; July 25.
Vehicular apparatus having means adapted to be lowered into sewer catch basins. Otterson Auto-Eductor Co. No. 144,041½; July 25.
Velocipedes and gocarts for children. International Toy Company. No. 160,018; July 25.
Watchcases and watches. D. Bernstein. No. 159,998; July 25.
Weeds, Chemical products to be used for the destruction of noxious. Chemical Products Company. No. 150,591; July 25.
Windshield wipers of the squeegee type. Ternstedt Manufacturing Company. No. 163,898; July 25.
Worsted, woolen, worsted and cotton, woolen and cotton, and worsted and silk piece goods. Louis Walther Manufacturing Company. No. 164,736; July 25.
Yarns, Embroidery. Kemp & Beatley, Inc. No. 125,959; July 25.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Boots, shoes, slippers. Thomas G. Plant Company. No. 160,776; July 25.
Brilliantine. E. Burnham, Inc. No. 160,473; July 25.
Candy. W. I. Booth. No. 159,402; July 25.
Capsules, Cold. Valley Remedy Co. No. 161,659; July 25.
Carbonizing compounds. Lecar Carbon Company. No. 161,889; July 25.
Carburetors, thermostatic controls for internal-combustion engines, etc. Beneke & Kropf Manufacturing Company. No. 151,076; July 25.
Carpeting and tapestry rugs, Stair. W. T. Grant Company. No. 160,759; July 25.
Charcoal of the highest adsorptive power ready for injections, Suspension of animal. E. Merck. No. 161,852; July 25.
China clay, and plain and colored bases for dressing, whitening, and fulling compounds. E. & V. King & Company. No. 162,880; July 25.
Ciders and fruit juices. Duffy-Mott Company. No. 165,065; July 25.
Cigarettes. Falk Tobacco Company. Nos. 164,878–9; July 25.
Cigarettes. L. L. Post. No. 155,446; July 25.
Cigarettes. J. Wix. No. 164,283; July 25.
Cigarettes, Egyptian. S. Benaderet. No. 164,220; July 25.
Cigars. De Nobili Cigar Co. No. 165,275; July 25.
Cigars. R. Hasel Cigar Co. No. 163,799; July 25.
Cigars. T. A. Henderson. No. 161,435; July 25.
Cigars. S. Reese. No. 163,947; July 25.
Cleaning preparation for cleaning fabric and like goods, Dry-. W. M. Ladd. No. 153,816; July 25.
Coats, overcoats, trousers, and knickerbockers. B. Ark. No. 156,731; July 25.
Coffee. McInnes-Walker Co. No. 158,879; July 25.
Color-stripping and dye-removing compound. John Campbell & Co. No. 161,110; July 25.
Cotton goods, linens, madras, and other cotton fabrics. S. K. Watts. No. 161,869; July 25.
Cotton piece goods. Fort Dummer Mills. Nos. 164,413–14; July 25.
Cotton piece goods. New England Commercial Co. No. 161,506; July 25.
Cotton textiles in the piece. N. Erlanger, Blumgart & Co. Nos. 162,538–9; July 25.
Cream, Face. G. C. Wilson. No. 161,079; July 25.
Dehydrooxycodeinonchlorhydrate. E. Merck. No. 161,847; July 25.
Doilies. Perlmann, Schal & Stern. No. 163,053; July 25.
Dresses, suits, coats, etc., Women's, girls', and misses'. Aarons & Homes. No. 157,874; July 25.
Dresses, suits, wraps, and fur pieces, Ladies'. Harry Collins, Inc. No. 157,985; July 25.
Dyes, dyestuffs, and colors. National Aniline & Chemical Company. No. 148,510; July 25.
Eaves-trough hangers, conductor hooks and fasteners. L. D. Berger. No. 157,596; July 25.
Electrical apparatus, machines, and supplies. Power Supply Company. No. 145,645; July 25.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 138,036; July 25.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 164,226; July 25.
Farriers' and cobblers' tools. Champion Tool Co. No. 152,416; July 25.
Farriers' tools. Champion Tool Company. No. 152,415; July 25.
Farriers' tools. Champion Tool Company. No. 152,418; July 25.
Finger rings. F. E. Ashmun Company. No. 163,078; July 25.
Fishing lines. Cortland Line Co. Nos. 164,391–4; July 25.
Fishing lines. Cortland Line Co. Nos. 164,396–8; July 25.
Floor coverings, Felt-base. Ringwalt Works, Inc. No. 162,582; July 25.
Fruits, Fresh citrus. L. K. Small Company. No. 150,059; July 25.
Fumigating materials, fungicides, insecticides. Gasselli Chemical Company. No. 160,703; July 25.
Garters, neckties, collars, hose, etc. A. C. Fischer. No. 130,822; July 25.
Gelatin. E. C. Rich, Inc. No. 159,105; July 25.
Ginghams in the piece. Deep River Mills, Inc. No. 153,875; July 25.
Glare and storm shields and windshields and wind-deflecting wings. Dickinson & Co. No. 164,238; July 25.
Groceries and grocery specialties. Bert McDowell Co. No. 159,042; July 25.
Hair nets. S. Glemby's Sons Co. No. 164,419; July 25.
Hair nets. S. Glemby's Sons Co. No. 164,424; July 25.
Hair nets. Schneider, Battinus & Simon. No. 164,968; July 25.
Hair nets, Human. Frazar & Company. No. 164,898; July 25.
Hair ribbons. Frankenthaler and Frankenthaler. No. 158,675; July 25.
Hair tonic. M. Shaffer Company. No. 161,208; July 25.
Hair tonics. G. W. Dunleavy. No. 161,038; July 25.
Handkerchiefs, Thomas Carter & Sons, Inc. No. 162,916; July 25.
Hosiery. Dreifus, Tichner & Eckstein. No. 140,430; July 25.
Hosiery. C. Iakowits. No. 158,894; July 25.
Hosiery, knitted and woven underwear and undersuits. A. Hoehm. No. 157,208; July 25.
Hosiery, underwear, knit goods, gloves, shirts, etc. Bennett & Wedeen Inc. No. 155,951; July 25.
Inhalers, remedy for catarrh, hay fever, etc., Combination, Miller-Fatland Novelty Co. No. 161,931; July 25.
Ink and ink powder, Writing. C. A. Black. No. 156,439; July 25.
Ink, Ink pigments, and the vehicles used with pigments for compounding inks, Printing. Alchemic Gold Company, Incorporated. No. 162,095; July 25.
Inks, Printing. Queen City Printing Ink Company. No. 160,427; July 25.
Ink, Writing. Super Saftee Ink Corporation. No. 157,238; July 25.
Insecticides. Hooker Electrochemical Company. Nos. 161,836–7; July 25.
Knickers. Kenilworth Manufacturing Co. No. 156,745; July 25.
Knit goods in the piece. Wiley-Bickford-Sweet Co. No. 157,051; July 25.
Knitted, cloth, and woven underwear. Davenport Hosiery Mills. No. 158,469; July 25.
Knitted fabrics. Argo Fabrics Corporation. No. 162,094; July 25.
Magazine, Monthly. T. Levish. No. 162,023; July 25.
Magazine, Musical. Musical Courier Company. No. 160,361; July 25.
Malt, Barley. Independent Products Co. No. 158,927; July 25.
Matches, Friction. T. A. Palmer. No. 162,445; July 25.
Medicated compound for female ailments. W. M. Konikov. No. 161,133; July 25.
Medicinal preparation for relief of colds, la grippe, etc. Beach Chemical Company. No. 161,956; July 25.
Medicinal preparations for skin diseases, infected wounds, etc. Lingner-Werke Aktiengesellschaft. No. 162,121; July 25.
Medicinal preparation for treatment of nerves, stomach, liver, etc. A. Arend Drug Co. No. 149,532; July 25.
Medicinal preparation for use as an aphrodisiac and metabolic stimulant. Eli Lilly & Company. No. 161,365; July 25.
Medicinal preparation for use as a sedative and hypnotic. Eli Lilly & Company. No. 161,367; July 25.
Medicinal preparation of a sedative character. R. G. Seel. No. 161,942; July 25.
Medicinal preparation recommended as a pain alleviator. Schering & Glatz, Inc. No. 161,902; July 25.
Music exercises, Vocal-. H. W. Geiger. No. 157,835; July 25.
Musical instruments, String, wind, and percussion. Vega Company. No. 164,845; July 25.
Needles, Hand sewing. Julius Berbecker & Sons, Inc. No. 161,166; July 25.
Needles, Hand sewing. A. J. Hague & Co. Nos. 159,263–4; July 25.
Noodles. Tri-Star Noodle Factory. No. 159,061; July 25.
Oil gauges. J. O. Middleworth. No. 151,765; July 25.
Ointment for colds, croup, etc. J. F. Ketels. No. 161,318; July 25.
Ointment for eczema, ulcers, itch, sores, ringworm, etc. A. Smith. No. 160,976; July 25.
Ointment for treating sores, burns, etc., Antiseptic healing. C. E. Palmer. No. 161,793; July 25.
Ointment for treatment of burns, scalds, etc. L. Vermeulen. No. 145,481; July 25.
Ointment, Medicinal. McLeod & Niess. No. 159,324; July 25.
Organs, Orchestral pipe. Robert-Morton Company. No. 161,704; July 25.
Packaging machinery, Mechanical. Pneumatic Scale Corporation. No. 142,357; July 25.
Paper. C. P. Lesh Paper Company. Nos. 164,329–30; July 25.
Paper. C. P. Lesh Paper Company. Nos. 164,332–3; July 25.
Paper and envelope, Combined writing. R. W. Smith. No. 162,711; July 25.
Paper and envelopes, etc. Paul M. Adams Co. No. 164,688; July 25.
Paper clamps and clips, thumb tacks, pin tickets, and ring clips. Noesting Pin Ticket Company. No. 164,659; July 25.
Paper, Cover. Marvellum Company. Nos. 164,709–10; July 25.
Paper, envelopes, etc., Writing and note. Macniven and Cameron Limited. No. 164,335; July 25.
Paper, Toilet. Linton & Scott. No. 150,970; July 25.
Paper, Toilet. White-Washburne Company. Nos. 164,739–41; July 25.
Paper, Wrapping. Blake, McFall Company. No. 161,295; July 25.
Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 163,093; July 25.
Paper, writing tablets, blank books, etc. F. C. Strype. No. 162,067; July 25.

ALPHABETICAL LIST OF LABELS.

"Ben-Gay." (For Medicinal Preparation for Rheumatism, Gout, Neuralgia.) T. Seltzer. No. 24,762; July 25.
"Bungalow Brand." (For Salad Dressing.) F. Hallberg. No. 24,748; July 25.
"Cataract Brand." (For Fresh Fruit.) Western New York Co-Operative Ass'n. Inc. No. 24,767; July 25.
"Cream of Bran." (For Cereals.) Phospho Food Co. Inc. No. 24,760; July 25.
"Cre-Cal-Co." (For Containers of a Solution Decausticated Creosote.) G. M. Callaway. No. 24,746; July 25.
"Dextro Malto No. 3." (For Infants' Food.) Mead Johnson & Co. No. 24,755; July 25.
"Home Made Orange Marmalade." (For Orange Marmalade.) J. Hartmann. No. 24,749; July 25.
"Hudson Refined Pure Lard." (For Pure Lard.) Joseph Stern & Sons, Inc. No. 24,765; July 25.
"KB Handy Shoe Shiner Cloth." (For Paper-Box Container and on Label Affixed to Cloth.) J. A. Callahan. No. 24,745; July 25.
"King Midas." (For Toasted Wheat Cereal.) Shane Bros. & Wilson Co. No. 24,763; July 25.
"La Napoletana. (For Peeled Tomatoes.) P. Pastene & Co. Inc. No. 24,759; July 25.
"Long Branch." (For Saltine Flakes.) Pacific Coast Biscuit Company. No. 24,758; July 25.
"Old Style Purest & Best Malt Extract." (For Malt Extracts.) Old Style Malt Extract Co. No. 24,757; July 25.
"Phospho." (For Nut-Brown Meal.) Phospho Food Co. Inc. No. 24,761; July 25.
"Pineland." (For Apples.) Spokane Valley Growers Union. No. 24,764; July 25.
"Pure Honey." (For Honey.) S. F. Von Schuetz. No. 24,766; July 25.
"Queen." (For Cartons of Japanese Hull-less Popcorn.) Northrup, King & Co. No. 24,756; July 25.
"Richmond Maid. (For Baking Powder.) The Laird Manufacturing Co. Inc. No. 24,754; July 25.
"Rogue River Valley Fruit Crater Lake Brand." (For Packages Containing Fresh Deciduous Fruits.) C. A. Knight. No. 24,753; July 25.
"Staffnote." (For Boxes Containing Player Rolls for Piano Player.) Billings Player Roll Company. No. 24,744; July 25.
"Stratton's Liniment." (For Bottles Containing Liniment.) F. P. Barber and R. K. Kirby. No. 24,743; July 25.
"Sombrero." (For Cantaloupes.) Withers Brothers. No. 24,769; July 25.
"Tastee." (For Cantaloupes.) R. De Giogio. No. 24,747; July 25.
"Widlar's Genuine." (For Mocha and Java Coffee.) Widlar Co. No. 24,768; July 25.
"Zanzibar-Carbon Crystal Laundry Blue." (For Containers Holding Zanzibar-Carbon Crystal Laundry Blue, a Blue Used for Laundry Purposes.) B. Heller & Company. No. 24,750; July 25.
"Zanzibar-Carbon Non-Sour Blue." (For Containers Holding Zanzibar-Carbon Non-Sour Blue, a Blue Used for Laundry Purposes.) B. Heller & Company. No. 24,751; July 25.
"Zanzibar-Carbon Combination Laundry Blue." (For Containers Holding Zanzibar-Carbon Combination Laundry Blue, a Blue Used for Laundry Purposes.) No. 24,752; July 25.

ALPHABETICAL LIST OF PRINTS.

"Ampico." (For Advertising Purposes for Pianos, Piano Players, and Player Pianos.) American Piano Company. No. 6,223; July 25.
"Cream of Wheat." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,224; July 25.
"Heins Vinegars Every Drop Awakens Flavor." (For Advertising Purposes for Heins Vinegars.) H. J. Heins Co. No. 6,226; July 25.
"Hypex." (For Advertising Purposes for Sleeve Valves for Internal-Combustion Engines.) W. W. Tompkins. No. 6,234; July 25.
"Knitted OuteRwear deserves the preference." (For Advertising Purposes for Knitted Outerwear.) Sweater & Knitted Textile Publicity Bureau, Inc. No. 6,233; July 25.
"Little Simon." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,225; July 25.
"No Home Complete Without a Sum-Vil Dry Mop." (For Advertising Purposes for Mops.) Somerville Brush Company. No. 6,231; July 25.
"What is she saying?" (For Advertising Purposes for Sealpax Athletic Underwear.) The Sealpax Co. No. 6,230; July 25.
"What is the matter with your hair?" (For Advertising Purposes for Shampoo.) The Palmolive Company. No. 6,229; July 25.
"The Pie in the Pievelope." (For Advertising Purposes for Pies.) Holbrook Pie Baking Co. Inc. Nos. 6,227–8; July 25.
"University." (For Advertising Purposes for Cigars.) J. C. Stowell Company. No. 6,232; July 25.
"Vin-Ron." (For Advertising Purposes for a Fruit Beverage.) Western Fruits Products Co. No. 6,235; July 25.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acetylsalicyloyltheobromine. E. Merck. No. 161,850; July 25.
Ammonia. Vernon Manufacturing Co. Nos. 158,270–1; July 25.
Antiseptic and mouth wash, Liquid. Hancock-Smiths, Incorporated. No. 161,775; July 25.
Antiseptic liquid. A. Kantar. No. 160,710; July 25.
Aprons, girdle supporters, and baby pants, Household. A. Stein & Company. No. 148,624; July 25.
Bagging, manufactured from jute fiber. American Manufacturing Company. No. 139,493; July 25.
Ball markers, Golf-. Hup Mfg. Co. No. 163,151; July 25.
Balls, Golf. Faultless Rubber Company. No. 163,866; July 25.
Banjos. Van Epe-Burr Corporation. No. 162,077; July 25.
Banjos. Vega Company. Nos. 161,708–9; July 25.
Barium sulphate used in X-ray diagnosis, Preparation of. E. Merck. No. 161,851; July 25.
Beds, Wall. Rip Van Winkle Wall Bed Company. No. 139,429; July 25.
Beverage and sirup for making same, Nonalcoholic, noncereal, maltless. L. F. Furcotte. No. 165,467; July 25.
Beverage and sirups used in making same, Fruit. Queen City Bottling Company. No. 158,333; July 25.
Beverage and sirups used in preparation of same, Nonintoxicating, nonalcoholic, noncereal. Pittsfield Coca Cola Bottling Corporation. No. 165,413; July 25.
Beverage sold as a soft drink. C. F. Martin. No. 164,254; July 25.
Beverages, Nonalcoholic maltless. Modern Beverage Company. No. 163,592; July 25.
Bleaching compounds. Carpenter-Morton Company. No. 161,033; July 25.
Bleaching compounds, powders, and fluids, dyestuffs, etc. Societe Anonyme des Produits du Lion Noir. No. 146,087; July 25.
Bleaching compounds, powders, and fluids, dyestuffs, etc. Societe Anonyme des Produits du Lion Noir. No. 146,089; July 25.
Boots and shoes. E. J. Bliss. No. 145,545; July 25.
Boots and shoes, Leather. J. W. Carter & Co. No. 160,232; July 25.
Boots and shoes, Leather. J. W. Carter & Co. No. 160,234; July 25.

Engines and parts thereof and certain accessories therefor. Knox Motors Company. No. 157,121; July 25.
Engines, and parts thereof, Internal-combustion. Pierce-Arrow Motor Car Company. No. 157,174; July 25.
Excelsior, excelsior products. Excelsior Wrapper Company. No. 157,057; July 25.
Films, Cinematograph. Societa Anonima Itala Film. No. 157,207; July 25.
Finger-piece eyeglass mountings. F. A. Hardy & Company. No. 157,094; July 25.
Fire fenders, furnace bars. Hadfields Limited. No. 157,091; July 25.
Firecrackers. Hitt Fireworks Company. No. 157,100; July 25.
Flour, Wheat. E. O. Challenger. No. 157,024; July 25.
Frocks for little girls, Play. Tubstuff Company. No. 157,226; July 25.
Fruit-jar rings. Walker-Matteson Company. No. 157,238; July 25.
Games, Boxed sets of changeable-feature. Irokese Trading Corporation. No. 157,267; July 25.
Garment hangers. J. Grimberg. No. 157,087; July 25.
Garment to be worn both as a sleeping robe and lounging robe. Brownstein-Louis Co. No. 157,015; July 25.
Garments, Children's. Kuh Brothers. No. 157,124; July 25.
Garments, Men's outer. J. J. Fatt. No. 157,061; July 25.
Gas mantles. Lindsay Light Company. Nos. 157,130–31; July 25.
Ginger ale and ginger-ale extracts. James Vernor Company. No. 157,293; July 25.
Glass, Cut. G. L. Borden. No. 157,010; July 25.
Gloves. Goodhand, Smith & John, Inc. No. 157,077; July 25.
Gloves and mittens, Cotton. Seneca Glove & Mitten Manufacturing Company. No. 157,204; July 25.
Gloves, Cloth. Grewen Fabric Company. No. 157,086; July 25.
Gloves, Fabric. Mills & Gibb Corporation. No. 157,152; July 25.
Gloves, Skin. Reynier & Cie. No. 157,186; July 25.
Grapes, Fresh. Fairview Grape Growers Ass'n. No. 157,060; July 25.
Grates and stokers. McClave-Brooks Co. No. 157,139; July 25.
Gum, Chewing. India Company. No. 157,111; July 25.
Guns, Hunting. V. Sarasqueta. No. 157,281; July 25.
Hair nets. Thurm, Browne & Cohen, Inc. No. 157,221; July 25.
Hats and caps for men and boys. Freed & Company. No. 157,069; July 25.
Hats and caps, Men's and children's. D. E. Locwe & Co. No. 157,137; July 25.
Hats for men. Bonar-Phelps Company. No. 157,255; July 25.
Hats, Ladies'. Quaker Hat Company. No. 157,180; July 25.
Hats, Men's. Bonar-Phelps Company. Nos. 157,006–8; July 25.
Hats, Men's. Bonar-Phelps Company. No. 157,009; July 25.
Hats, Men's. Denzer, Goodhart & Co. No. 157,045; July 25.
Hats, Women's. Saks & Company. No. 157,198; July 25.
Hats, Women's and children's. W. H. Littlefield and Company. Nos. 157,132–5; July 25.
Heels for footwear, Resilient. A. L. Runyan. No. 157,106; July 25.
Heels for shoes, Combination leather and rubber. J. K. Krieg Company. No. 157,271; July 25.
Heels, Wood. Gray-Hathaway Wood Heel Company. No 157,082; July 25.
Hose, Boys' ribbed. J. P. Voorhees. No. 157,237; July 25.
Hosiery. R. Berman. No. 157,002; July 25.
Hosiery. Burson Knitting Company. No. 157,018; July 25.
Hosiery. A. K. Clarke. No. 157,270; July 25.
Hosiery. S. Kaplan. No. 157,116; July 25.
Hosiery. Keesey Hosiery Company. No. 157,119; July 25.
Hosiery. Wm. T. McVaugh Company. No. 157,142; July 25.
Hosiery. Oliver Knitting Company. No. 157,167; July 25.
Hosiery. Sterling Hosiery Co. No. 157,210; July 25.
Hosiery. United Mills Company. No. 157,230; July 25.
Hosiery. Wayne Knitting Mills. No. 157,295; July 25.
Ice-making and refrigerating machinery. Frick Company. No. 157,070; July 25.
Jacks and lifting-jack bases, Lifting. O. P. Schriver Company. No. 157,200; July 25.
Kimonos, house dresses, aprons, bath robes. Caro & Company. No. 157,022; July 25.
Knit underwear. Superior Knitting Company. No. 157,214; July 25.
Knit underwear for women and children. Blue Star Knitting Co. No. 157,005; July 25.
Knitted or textile underwear, sweaters, neckties, etc., Men's, women's, and children's. Myers-Dry Goods Co. No. 157,158; July 25.
Knitted underwear, bathing suits, hosiery, etc., Women's and children's. A. M. Webb. No. 157,240; July 25.
Knitted underwear for women. Sylva Knitting Company. No. 157,215; July 25.
Knives, forks, and spoons, etc., Table. Ovington Bros. Company. No. 157,168; July 25.
Lamps for motor vehicles, Electric signal. Standard Auto Parts Co. of America. No. 157,288; July 25.
Lathes, Turning. Dalton Manufacturing Corporation. No. 157,040; July 25.
Lens. W. E. Moulton. No. 157,155; July 25.
Lenses, Headlight. R. T. Wing. No. 157,249; July 25.
Lockers for the storage of valuables, safes, etc., Vault. Barshal Company. No. 156,997; July 25.
Locks. Wilson Bohannan, Inc. No. 157,254; July 25.
Locks, latches, and padlocks. E. T. Fraim Lock Company. Nos. 157,066–7; July 25.
Machine tools. Steel Products Engineering Company. No. 157,209; July 25.
Machinery, Certain. Treadwell Engineering Company. No. 157,292; July 25.
Mayonnaise. B. Alperin. No. 156,982; July 25.
Meats, sausages, and frankfurters, lard, salad oil, etc., Smoked. Virden Packing Company. No. 157,236; July 25.
Men's wear and haberdashery, shirts, pyjamas, neckties, scarfs, etc. Mill-Rich Service. No. 157,151; July 25.
Metal-working small tools. Cleveland Twist Drill Company. No. 157,027; July 25.
Milk, Condensed and evaporated. Burt Olney Canning Company. No. 157,019; July 25.
Millinery and ladies' ready-to-wear garments. M. Robins. No. 157,191; July 25.
Moccasins. G. H. Bass & Company. No. 156,998; July 25.
Mops. Massasoit Manufacturing Company. No. 157,147; July 25.
Motor cycles, side cars and trailers. Sinclair Militor Corporation. No. 157,206; July 25.
Oil gauges. Sterling Parts Mfg. Co. No. 157,289; July 25.
Oil, Olive. Bay Bee Oil Co. No. 156,999; July 25.
Oil, Olive. Oleicola Tarragona, S. A. No. 157,165; July 25.
Overalls, coveralls, work shirts, etc. United States Overall Manufacturing Company. No. 157,231; July 25.
Packings, gaskets, and washers of leather. Hess and Hopkins Leather Company. No. 157,263; July 25.
Paper luncheon sets. Sanitary Products Corporation of America. No. 157,199; July 25.
Paper tablets, papeteries, envelopes, and boxes of sheet paper. Charles Leich & Co. No. 157,126; July 25.
Papers and mailing envelopes, Writing. Whiting Paper Company. No. 157,245; July 25.
Pencils, Lead. A. J. Coleman. No. 157,029; July 25.
Photographic paper. Defender Photo Supply Company. No. 157,041; July 25.
Piece goods, Certain. Lewis Manufacturing Co. No. 157,128; July 25.
Pies, puddings, custards, and cake filling, Mixture for making. Adam Int-Hout. No. 156,975; July 25.
Pipe vises and stocks and dies for pipe threading. Armstrong Manufacturing Co. No. 156,990; July 25.
Piston rings. Perfection Piston Ring Company. No. 157,171; July 25.
Plumbers' tables and vise supports. G. L. Hargey. No. 157,095; July 25.
Powder, Washing. R. L. Wilson. No. 157,297; July 25.
Preparation for the relief of dyspepsia, indigestion, gas, etc. W. M. Davis. No. 157,257; July 25.
Preparation for the treatment of whooping cough, croup, hoarseness, and bronchitis, Liquid. W. J. Galloway. No. 157,258; July 25.
Preparation for treating rheumatism and purifying the blood. L. G. Jolley & Son. No. 157,269; July 25.
Preparation used in the treatment of indigestion. Mary Hatchet & Jenkins. No. 157,261; July 25.
Pumping machinery, pumps, vacuum pumps, and air and gas compressors. Worthington Pump and Machinery Corporation. No. 157,250; July 25.
Pumps and meters, Fluid-measuring. St. Louis Pump & Equipment Company. No. 157,287; July 25.
Pumps for gasoline and oil, Measuring. Guarantee Liquid Measure Company. No. 157,260; July 25.
Punch presses. Reliance Die and Stamping Company. No. 157,279; July 25.
Pyjamas, robes, and combination sets of pyjamas and robes. Stadium Underwear Co. No. 157,208; July 25.
Pyrophoric igniters. Chastern, Inc. No. 157,026; July 25.
Railway spikes. Railway Lock-Spike Co. No. 157,181; July 25.
Ranges, Steel coal, wood, and combination of coal and gas and wood and gas. Eureka Steel Range Co. Nos. 157,053–4; July 25.
Razor-blade-stropping holders, Safety-. J. J. Lochman. No. 157,136; July 25.
Razor-strop dressing. John M. McVoy. No. 157,143; July 25.
Razors, safety razors, safety-razor blades. American Safety Razor Corporation. No. 156,986; July 25.
Rivets. Edwin B. Stimpson Company. No. 157,291; July 25.
Rubber and leather in combination, Heels of. Nova Heel Manufacturing Co. No. 157,162; July 25.
Rubber belting and hose. Manhattan Rubber Mfg. Co. No. 157,144; July 25.
Rubber heels. Hood Rubber Company. No. 157,103; July 25.
Rubber patches, Sheet-. United States Sales Corporation. No. 157,232; July 25.
Rubber soles and heels. Essex Rubber Company. No. 157,052; July 25.
Salt. Ohio Salt Company. No. 157,164; July 25.
Salve, Medicinal. Vick Chemical Company. No. 157,235; July 25.
Saws. W. T. Grant. No. 157,259; July 25.

Seats, Water-closet. N. O. Nelson Manufacturing Company. No. 157,275; July 25.
Shade, Window. Lapsley & Bros. Company. No. 157,272; July 25.
Sheets, pillowcases and bolster cases, Bed. Royle Craven Company. No. 157,036; July 25.
Shirt and drawers, Combination sport. Rothschild & Sons. No. 157,194; July 25.
Shirts. Greenbaum, Weil & Michels. No. 157,084; July 25.
Shirts. Rauh Bros. & Co. No 157,182; July 25.
Shirts, Dress and negligee. Herzfeld-Phillipson Company. No. 157,096; July 25.
Shirts, Men's and boys'. North Bros. & Co. No. 157,160; July 25.
Shirts, Negligee and work. Sigmund Eisner Company. No. 157,048; July 25.
Shirts, Work. Rombro Brothers. No. 157,193; July 25.
Shock absorbers for automobiles. Marvel Shock Absorber Corporation. No. 57,145; July 25.
Shoes. Brown Shoe Company. No. 157,012; July 25.
Shoes. Brown Shoe Company. No. 157,014; July 25.
Shoes. Ideal Shoe Manufacturing Company. No. 157,109; July 25.
Shoes. Nathan, Morphy & Co. No. 157,159; July 25.
Shoes. Sachs Shoe Manufacturing Company. No. 157,197; July 25.
Shoes and boots. Excelsior Shoe Company. No. 157,056; July 25.
Shoes and leather shoe soles, Leather. R. K. L. Company. No. 157,189; July 25.
Shoes and moccasins. Mater-Mack Co. No. 157,148; July 25.
Shoes, Ladies' and misses' leather. Krippendorf-Dittmann (Co. No. 157,123; July 25.
Shoes, Leather. J. S. Hall's Sons. No. 157,092; July 25.
Shoes, Leather and fabric. Wm. Hahn & Co. No. 157,093; July 25.
Shoes, Leather, rubber fabric, or the combination thereof. International Shoe Co. No. 157,113. July 25.
Shoes, Men's and boys'. Craddock-Terry Company. No. 157,035; July 25.
Shoes, Men's leather. Brown Shoe Company. No. 157,013; July 25.
Shoes of leather, rubber, fabric, etc. F. A. Butler. No. 157,020; July 25.
Shoes, slippers, boots, etc., Leather, fabric, etc. Wichert & Gardiner. No. 157,246; July 25.
Slippers and shoes, Leather. T. W. Morrison. No. 157,154; July 25.
Slippers, Bedroom. S. J. Hill. No. 157,098; July 25.
Slippers, Fabric. I. Goldberg. No. 157,076; July 25.
Soap. W. W. Waddell. No. 157,294; July 25.
Soap, Toilet. J. J. Bradley. No. 157,256; July 25.
Solder, Metal and aluminum. M. J. White. No. 157,296; July 25.
Soles, Cut leather. R. S. Lawrence. No. 157,125; July 25.
Spark plugs, Metal terminals or electrodes for. H. M. Fredriksen. No. 157,068; July 25.
Sponge and washrag, Combined. G. Fierheller. No. 157,062; July 25.
Steel, Sheet. Bethlehem Steel Company. No. 157,003; July 25.
Steels in bars, billets, and shapes, Tool. Carpenter Steel Company. No. 157,023; July 25.
Stilts. Sterling Toy Works. No. 157,290; July 25.
Stoves, Gas and coal. Wincroft Stove Works. No. 157,248; July 25.
Stoves, ranges, furnaces, etc. Independent Stove Company. No. 157,110; July 25.
Suit, Union. Chalmers Knitting Company. No. 157,025; July 25.
Suits, Boys' and children's play. Tauber, Lipton & Co. No. 157,216; July 25.
Suits, coats, trousers, knickerbockers, etc., Men's, young men's and boys'. Siebler Clothes Company. No. 157,205; July 25.
Suits, dresses, coats, etc., and boys' suits, Women's, misses', and children's. Strouse-Baer Co. No. 157,212; July 25.
Sweaters. Sunbeam Knitting Mills. No. 157,213; July 25.
Syringes, Hydrometer. Scranton Glass Instrument Company. No. 157,282; July 25.
Tacks, nails, and rivets. Atlas Tack Corporation. No. 157,252; July 25.
Tacks, Thumb. Twistout Thumb Tack Company. No. 157,228; July 25.
Tappets, Oil-cushion. Soenksen-Wolff-Spiers Company. No. 157,286; July 25.
Tarpaulin, wagon covers, and tents. H. Wenzel Tent & Duck Company. No. 157,243; July 25.
Tents and covers, Canvas. Barnett Canvas Goods & Bag Co. No. 156,995; July 25.
Tents, awnings, paulins, tarpaulins, and detached waterproof wagon covers. Clifton Mfg. Company. No. 157,028; July 25.
Textile fabric. M. W. Grinnell. No. 157,088; July 25.
Thread and yarn. Flock Manufacturing Company. No. 157,064; July 25.
Threads and yarns of silk and artificial silk. A. H. Rice Company. No. 157,187; July 25.
Threads, Artificial silk. Brainerd & Armstrong Company. No. 157,011; July 25.
Ties and scarfs. L. Auerbach. Nos. 156,991–2; July 25.
Ties, cravats, and four-in-hand ties. Friedman Bros. & Son Neckwear Company. No. 157,071; July 25.
Tire carriers. Trexler Company. No. 157,224; July 25.
Tires and tubes, Automobile. Austin, Nichols & Co. No. 156,993; July 25.
Tires for automobiles, Rubber. Tuscan Tire & Rubber Company. No. 157,227; July 25.
Tires, Rubber. Hudson Tire Co. No. 157,106; July 25.
Tires, Rubber. B. Lichtig & Son Inc. No. 157,129; July 25.
Tires, Rubber automobile. Fisk Rubber Company. No. 157,063; July 25.
Toilet preparations, Certain. M. Pasquier. No. 157,277; July 25.
Tonic, General medicinal. Medio Distributing Co. No. 157,273; July 25.
Toy aeroplanes. P. Pierce. No. 157,175; July 25.
Toys, Electrical. Meccano Limited. No. 157,149; July 25.
Tractors and carburetors. Horace Keane Aeroplanes, Inc. No. 157,118; July 25.
Trousers. H. & S. Manufacturing Company. No. 157,105; July 25.
Trousers. D. M. Oberman Mfg. Co. No. 157,163; July 25.
Trousers and pants. Dadd & Ladd Trouser Company. No. 157,039; July 25.
Trousers, skirt, coat, gown, and suit hangers. Hincher Manufacturing Company of Indiana. No. 157,099; July 25.
Truck bodies. L. W. Robinson. No. 157,192; July 25.
Trucks and trailers, Motor. Traylor Engineering & Manufacturing Company. No. 157,223; July 25.
Typewriters, typewriter repair parts, etc., Rebuilt. A. H. Post. No. 157,179; July 25.
Undergarments and sanitary pantalettes, Women's. I. B. Kleinert Rubber Company. No. 157,120; July 25.
Underwear. Cotton States Hosiery Mills. No. 157,034; July 25.
Underwear, children's dresses, Women's and children's. Birkenfeld, Strauss & Co. No. 157,004; July 25.
Uniforms and hats, men's suits, hats, etc., Naval and army. American Naval Uniform Co. No. 156,985; July 25.
Vanilla flavoring compounds. Muller-Houseman Company. No. 157,156; July 25.
Vehicles, Commercial motor. John I. Thornycroft & Co. No. 157,220; July 25.
Vending machines. Barr Company. No. 156,996; July 25.
Watch blanks. Fabrique d'Horlogerie de Fontainemelon S. A. Nos. 157,058–9; July 25.
Water, nonalcoholic beverages, and sirups for making same, Distilled. H-2-O Still Company. No. 157,090; July 25.
Waterproof clothing. Alligator Oil Clothing Company. No. 156,981; July 25.
Waterproofed textile fabrics. Edward McConnell & Co. No. 157,140; July 25.
Wool, Shetland floss, worsted, mohair, alpaca, etc. O. Seiss. Nos. 157,202–3; July 25.
Yarns and acetylcellulose thread, Fancy. Grasselli Chemical Company. No. 157,081; July 25.
Yarns and artificial and thrown silk, Mercerized and cotton. U. S. Yarn Co. No. 157,233; July 25.
Yarns, warps, flosses, threads, and tinsel threads. J. R. Montgomery Company. No. 157,115; July 25.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Aeroplanes and parts thereof. Certain. Horace Keane Aeroplanes, Inc. No. 157,117; July 25.
Airplanes. Curtiss Aeroplane and Motor Corporation. No. 157,038; July 25.
Analgesic and medicine for neuralgia, headache, toothache, rheumatism, and grippe, General. Societe Civile des Hermitiers de P. Basset. No. 157,285; July 25.
Antiskid chains for vehicle wheels. American Chain Company. No. 156,989; July 25.
Aprons and dresses, Women's cotton. I. Ginsberg & Bros. No. 157,074; July 25.
Aprons, Bungalow. Elias and Lowenstein Company. No. 157,051; July 25.
Athletic underwear, Men's. M. J. Friedman. No. 157,072; July 25.
Automobile luggage and tire carriers. Interlock Hardware Company. No. 157,112; July 25.
Automobiles and motor trucks. Northway Motors Corporation. No. 157,161; July 25.
Automobiles and their structural parts. Gray Motor Corporation. No. 157,083; July 25.
Awl tools for shoemakers and leather workers, Combination. W. Pass. No. 157,278; July 25.
Bathing suits. Oliver Knitting Company. No. 157,166; July 25.
Bearings and bushings. Buckeye Brass and Manufacturing Company. No. 157,016; July 25.
Belting, Leather. Grant Leather Corporation. No. 157,080; July 25.
Belts, Automobile textile fan. Raydeo Belt Co. No. 157,184; July 25.
Belts for men, women, and children. Hauser & Weil. No. 157,262; July 25.
Beverage and sirups for making same. Theonett & Co. No. 157,217; July 25.
Beverage sold as a soft drink and sirup for same, Carbonated. Orange-Smash Co. No. 157,276; July 25.
Beverages and purified drinking water, Nonalcoholic. Electrozone Water Company. No. 157,049; July 25.
Beverages sold as soft drinks and sirups for making the same. F. Hoffman & Sons, Inc. No. 157,265; July 25.
Bicycles and parts thereof. Westfield Manufacturing Company. No. 157,244; July 25.
Blankets. Beacon Manufacturing Company. No. 157,000; July 25.
Blouses and waists, Women's. Sears, Roebuck & Co. No. 157,201; July 25.
Boat lowering and hoisting gear, Mechanically-operated. George A. Vaughan & Co. No. 157,234; July 25.
Boats. McIntyre Bros. No. 157,141; July 25.
Boots and shoes. Rubberhide Company. No. 157,195; July 25.
Boots and shoes. Tri-Plex Shoe Company. No. 157,225; July 25.
Boots and shoes, Leather. Commonwealth Shoe and Leather Company. No. 157,030; July 25.
Boots, shoes, and slippers. Abbott Shoe Co. No. 156,974; July 25.
Boots, shoes, and slippers. Plaut-Butler Company. No. 157,176; July 25.
Boots, shoes, and slippers. M. Samuels & Co. No. 157,280; July 25.
Boots, shoes, leggings, spats, rubbers, gaiters, etc. H. Gordon. No. 157,078; July 25.
Boots, shoes, slippers. J. J. Grover's Sons Company. No. 157,089; July 25.
Boots, shoes, slippers. Thomas G. Plant Company. Nos. 157,177–8; July 25.
Bottle stoppers and lids. Thomas De La Rue and Company. No. 157,043; July 25.
Bottles, Glass milk. W. L. Johnson. No. 157,114; July 25.
Brake bands, Lubricant for. Simons Manufacturing Company. No. 157,283; July 25.
Brake lining. Raybestos Company. No. 157,183; July 25.
Brake linings. A. J. Conard. No. 157,032; July 25.
Brushes, Toilet. Geo. R. Gibson Co. No. 157,073; July 25.
Burial garments. Theo. Tiedemann & Sons. No. 157,222; July 25.
Burners for lighting, heating, and cooking purposes. Elektrizitätswerk Lonza. No. 157,050; July 25.
Camping or sleeping bags, Woolen and canvas. F. C. Hnyck & Sons. Nos. 157,107–8; July 25.
Candies. Sioux Candy Co. No. 157,284; July 25.
Candies. A. G. Williams Home Made Candy Co. No. 157,247; July 25.
Candies and chocolates. Mason, Au & Magenheimer Conf. Mfg. Co. No. 157,146; July 25.
Candies and ice cream. Pangburn Company. No. 157,170; July 25.
Candy. De Klyn Candy Co. No. 157,042; July 25.
Candy. Gramercy Chocolate Company. No. 157,079; July 25.
Candy, Chocolate-covered. Buhr & Smith. No. 157,017; July 25.
Canned fruits, vegetables, and fish, vinegar. J. C. Perry & Company. No. 157,172; July 25.
Caps and hats, Men's and boys'. Ambassador Cap Co. No. 156,983; July 25.
Cards, Packaged set of changeable-feature folding. Irokese Trading Corporation. No. 157,268; July 25.
Cars and parts thereof, Certain. Koppel Industrial Car & Equipment Company. No. 157,122; July 25.
Castings and forgings, Metal. Dunbar Drop Forge Company. No. 157,047; July 25.
Chalks, Billiard. National Billiard Chalk Co. No. 157,274; July 25.
Chinaware, earthenware, porcelain. Ovington Bros. Company. No. 157,169; July 25.
Chocolate coatings, Cakes of sweet-. Walter Baker & Company. No. 156,994; July 25.
Cigars. Walker-Matteson Company. No. 157,239; July 25.
Cleaning machines, Vacuum. Hochschild, Kohn and Co. No. 157,264; July 25.
Cloth in the piece of wool, cotton, or mixtures of same. Howard and Jones, Inc. No. 157,104; July 25.
Cloths of wool. William Hollins & Company. No. 157,102; July 25.
Clothes, Work. Higginbotham-Bailey-Logan Company. No. 157,097; July 25.
Clothing and protective apparel, Certain articles of. J. Weimann. No. 157,242; July 25.
Clothing, Certain articles of. J. P. Carey & Co. No. 157,021; July 25.
Clothing, Certain articles of. Derwent Mills, Limited. No. 157,046; July 25.
Clothing, Certain articles of. M. Levin. No. 157,127; July 25.
Clothing, Certain articles of. Charles Munter. No. 157,157; July 25.
Coal and coke. Thermot Coal & Coke Co. No. 157,218; July 25.
Coats, caps, hats, gloves, hosiery, etc. A. Cunningham, Limited. No. 157,037; July 25.
Coats, vests, trousers, and overcoats. Coombes & Levison. No. 157,031; July 25.
Coats, vests, trousers, skirts, hats, and caps, Leather. Jens Weimann. No. 157,241; July 25.
Coats, waistcoats, trousers, and overcoats. David Adler & Sons Co. No. 156,976; July 25.
Coffee. G. G. Cornwell & Son. No. 157,033; July 25.
Coffee. Ridenour-Baker Grocery Company. No. 157,188; July 25.
Coffee and tea. Hoffman-Hayman Coffee Co. No. 157,101; July 25.
Coffee, tea, spices, vinegar, and flavoring extracts. David G. Evans Coffee Company. No. 157,055; July 25.
Collars, cuffs, and shirts. American Collar Co. Inc. No. 157,251; July 25.
Cologne water. F. Hoyt & Co. No. 157,266; July 25.
Condiments and spices. Green Top Company. No. 157,085; July 25.
Construction material, Certain. Philip Carey Manufacturing Co. No. 157,173; July 25.
Cotton, linen, and half-silk piece goods. Aktiengesellschaft Cilander. Nos. 156,977–80; July 25.
Cotton, silk, linen goods and mixtures in the piece. Jacob Miller Sons & Co. No. 157,153; July 25.
Cotton, thread, cotton yarn, Spool and sewing. American Thread Company. No. 156,987; July 25.
Crayons, Dustless. American Crayon Company. No. 156,984; July 25.
Culinary and kitchen utensils. Ernest Stevens Limited. No. 157,211; July 25.
Curtain fixtures and brackets. Bay State Stamping Company. No. 157,253; July 25.
Cutting tools for working wood and metal, Certain. J. Thompson. No. 157,219; July 25.
Diapers and diaper material. Forney & Co. No. 157,065; July 25.
Dolls. G. F. Berkander. No. 157,001; July 25.
Dresses, Ladies'. Meyer Cloak & Dress Co. No. 157,150; July 25.
Dresses, Silk. David H. Lowenthal & Co. No. 157,138; July 25.
Dresses, skirts, and waists, Cotton. I. Ginsberg & Bros. No. 157,075; July 25.
Dresses, Women's. Charles H. D. Robbins Co. No. 157,190; July 25.
Electric-current detector. Am-O-Meter Company. No. 156,988; July 25.
Engines, air compressors, and air compressing and receiving outfits. De La Vergne Machine Company. No. 157,044; July 25.
Engines and oil-well tools and equipment, Gas. Union Tool Company. No. 157,229; July 25.

300 O. G.—52½

Tubes and similar articles, Mold for pneumatic. W. L. Fairchild. No. 1,423,761; July 25.
Tubes, Vulcanizing pneumatic. W. L. Fairchild. No. 1,423,760; July 25.
Tubing bleeder. G. C. Irons and A. Larson. No. 1,423,937; July 25.
Typewriter. J. A. Wherry. (Reissue.) No. 15,426; July 25.
Typewriter attachment. J. M. Schultz. No. 1,423,687; July 25.
Universal joint. W. C. Morton. No. 1,423,577; July 25.
Universal joint. H. N. Wayne. No. 1,424,051; July 25.
Uppers over lasts, Machine for working. B. Jorgensen. No. 1,423,612; July 25.
Urinal. G. Müller. No. 1,423,537; July 25.
Urn, Coffee. H. J. Strohbach. No. 1,423,547; July 25.
Utensil, Camp. H. H. Jewett. No. 1,423,612; July 25.
Valve. N. Paimaffy. No. 1,423,966; July 25.
Valve device. H. C. Brehmer. No. 1,423,988; July 25.
Valve, Drain. S. Pavitchich. No. 1,423,679; July 25.
Valve, Drifting. J. H. Hanlon. No. 1,423,797; July 25.
Valve for air-brake pipes, Shut-off. A. L. Cole. No. 1,424,083; July 25.
Valve-grinding machine, Multiple-. R. M. Roof. No. 1,424,035; July 25.
Valve, Poppet. C. Pfanstiehl. No. 1,423,876; July 25.
Valve seat. R. W. Gunn and W. A. S. Thompson. No. 1,424,004; July 25.
Valve-stem cap. E. D. Rockwell. No. 1,423,541; July 25.
Valve, Throttle. W. F. Kasper. No. 1,423,858; July 25.
Vaporizer, Kerosene. W. H. Hill. No. 1,424,142; July 25.
Vegetable cutter. A. I. Mohnacs. No. 1,423,960; July 25.
Vegetable peeler. T. H. Pickering. No. 1,424,082; July 25.
Vegetable-stem remover and crusher. A. Flis. No. 1,423,790; July 25.
Vehicle brake. B. O. Frederick. No. 1,423,846; July 25.
Vehicle fuel tanks, Number plate for motor-. N. W. Jacobs. No. 1,423,988; July 25.
Vehicle, Motor. A. E. Osborn. No. 1,423,731; July 25.
Vehicle washing machine. M. J. Fenelon. No. 1,423,844; July 25.
Vehicle wheel. A. Mailhiot. No. 1,423,574; July 25.
Vehicle wheel. S. Munson. No. 1,423,674; July 25.
Vehicle wheels, Making pressed-steel. D. H. Bellamore and T. I. S. Boak. No. 1,423,747; July 25.
Vehicles, Driving mechanism for motor. C. E. Starr. (Reissue.) No. 15,424; July 25.
Vehicles, Equalizing and steering gearing for motor. J. B. Ramer. No. 1,424,118; July 25.
Vehicles, Identification fender for. L. P. Braddy. No. 1,423,905; July 25.
Vehicles, Radiator for. E. R. Hewitt. No. 1,423,662; July 25.
Vehicles, Spring guard for. L. H. B. Hand. No. 1,424,014; July 25.
Vehicles, Steering-wheel lock for. H. L. Smith. No. 1,423,632; July 25.
Vending apparatus. E. C. Boyce. No. 1,424,074; July 25.
Vessel, Towing. T. S. Miller. No. 1,423,576; July 25.
Vise. J. J. Moore. No. 1,423,774; July 25.
Voltage-regulating system. G. Faccioli. No. 1,423,926; July 25.
Wagon tongue. J. H. Anderson. No. 1,424,064; July 25.
Wall board and plaster composition adapted thereto. J. A. Lockhart. No. 1,423,569; July 25.
Washboiler attachment. J. T. Wood. No. 1,423,823; July 25.
Washer. P. W. Fleischer. No. 1,424,008; July 25.
Washing machine. A. Sorensen. No. 1,423,972; July 25.
Washing machines, Driving mechanism for. C. C. Lamb. No. 1,423,531; July 25.
Watch-chain fastener. J. Loman. No. 1,424,139; July 25.
Water mixer. T. W. Powers. No. 1,423,880; July 25.
Waterproofing device. G. A. Kampmann. No. 1,423,857; July 25.
Water softener. C. B. Haines. No. 1,423,657; July 25.
Water to boilers, Apparatus for controlling the flow of. J. A. Doble. No. 1,423,759; July 25.
Welding, Electrical arc. J. Churchward. No. 1,423,914; July 25.
Well-cleaning device. F. J. Rogers. No. 1,423,625; July 25.
Wheel: *See*—
Disk wheel. Spring wheel.
Fan wheel. Tractor wheel.
Resilient wheel. Vehicle wheel.
Wheel. F. S. Stafford. No. 1,423,694; July 25.
Wheel and making same. J. F. Dodge. No. 1,423,556; July 25.
Wheel and resilient tire therefor, Vehicle. F. De Borggrave. No. 1,424,086; July 25.
Wheels, Detachable tread for tractor. E. J. Farkas. No. 1,423,519; July 25.
Window. J. Siegfried. No. 1,423,629; July 25.
Window lock. W. M. Lowthorp No. 1,424,107; July 25.
Windows, Protecting device for show. M. A. Skall. No. 1,424,043; July 25.
Woodworking and other machines, Feeding chain for. C. B. Foster and F. H. Clement. No. 1,424,090; July 25.
Woven tubular fabric. W. E. Hill and C. V. Firth. No. 1,423,524; July 25.
Wrench: *See*—
Adjustable wrench. Pipe wrench.
Wrench. F. W. Blackmar. No. 1,424,069; July 25.
Wrench. G. D. Illig No. 1,423,803; July 25.
X-ray cabinet and machine W. H. Thwaites. No. 1,423,635; July 25.
X-ray-tube holder, Adjustable. E. L. Edwards. No. 1,423,924; July 25.
Yarn clearer and tension device, Combined. J. O. McKean. No. 1,423,864; July 25.

ALPHABETICAL LIST OF DESIGNS.

Ash tray. W. M. Chapman. No. 61,267; July 25.
Doll, Stocking baby. J. O. Enoch. No. 61,268; July 25.
Finger ring. D. Shiman. No. 61,280; July 25.
Gas heater. C. V. Roberts and K. C. Farnsworth. No. 61,277; July 25.
Knitted cape. J. Pelt. No. 61,276; July 25.
Lighting fixtures, Husk for. J. W. Schulze. No. 61,279; July 25.
Paper or similar article. F. Javal. No. 61,270; July 25.
Paper, Safety. F. Meyer. No. 61,275; July 25.
Ring or similar article. J. W. Mayer. No. 61,274; July 25.
Textile fabric. G. Barci. No. 61,266; July 25.
Textile fabric. E. Krupicka. No. 61,271; July 25.
Textile fabric. G. Rowland. No. 61,278; July 25.
Textile fabric. W. Strasser. Nos. 61,281–4; July 25.
Textile fabric. V. Tardy. Nos. 61,285–6; July 25.
Textile fabric, Wall paper, wrapping paper, or article of similar nature. E. Gaudioz. No. 61,269; July 25.
Toy doll. C. B. Lockwood. No. 61,273; July 25.
Valance. H. H. Lindner. No. 61,272; July 25.

Loom. E. G. Loomis. No. 1,423,619; July 25.
Looms, Bobbin stripper for automatic. J. T. Malloy. No. 1,423,670; July 25.
Looms, Warp take-up and tensioning mechanism for. S. K. Oliver. No. 1,423,729; July 25.
Lubricator: *See*—
Journal lubricator.
Magneto oscillator. H. O. Putt. Nos. 1,423,734–5; July 25.
Manifolding sheet. F. R. McClusky. No. 1,423,808; July 25.
Manure loader. B. J. Newcomb. No. 1,423,676; July 25.
Marker, Illuminated. E. H. Bausman. No. 1,423,641; July 25.
Marking machine. E. T. Benson. No. 1,423,903; July 25.
Mattress. F. Maussner. No. 1,423,954; July 25.
Mechanical movement. J. C. Stone. No. 1,423,973; July 25.
Medicinal apparatus. A. F. W. Macmanus. No. 1,424,111; July 25.
Meter: *See*—
Motor meter.
Meter. H. Blum. No. 1,423,597; July 25.
Meter lock, Motor-. L. L. Winters. No. 1,423,822; July 25.
Methylene bodies, Producing active. C. B. Carter and A. E. Coxe. No. 1,423,753; July 25.
Milk product, Producing a condensed-. H. S. Mellott. No. 1,423,810; July 25.
Milk, worts, and the like, Heat-exchange device for treating. M. Grubenmann. No. 1,423,794; July 25.
Milling machine, Rigid. O. Hoppe. No. 1,423,563; July 25.
Mining machine. E. C Morgan. Nos. 1,424,113–14; July 25.
Mixer: *See*—
Water mixer.
Mixing and conveying apparatus. C. W. Hodgson. No. 1,423,853; July 25.
Motor: *See*—
Current motor.
Motor-controlling mechanism, Servo-. H. Zoelly and A. Gagg. No. 1,423,786; July 25.
Motor meter, Electrically-lighted. C. H. Craft. No. 1,423,755; July 25.
Mower, Lawn. P. A. Campbell. No. 1,423,999; July 25.
Napkin-dispensing device. C. H. Vinson. No. 1,423,701; July 25.
Nonskid chain. M. R. Johnson. No. 1,423,564; July 25.
Nuts, bolts, and the like, Locking means for. H. Batchelor. No. 1,423,746; July 25.
Odometer, Hub. C. Carson. No. 1,424,000; July 25.
Oil burner. J. O. Decuir. No. 1,423,650; July 25.
Oil, Desulphurizing. J. C. Clancy. No. 1,423,710; July 25.
Oil, Desulphurizing. J. C. Clancy. No. 1,423,712; July 25.
Oil, Transmission and motor. W. K. Boileau. No. 1,423,512; July 25.
Ophthalmic mounting. F. A. Stevens. (Reissue.) No. 15,425; July 25.
Ordnance. A. T. Dawson and J. Horne. No. 1,423,757; July 25.
Ore-separating device. W. S. Brown. No. 1,423,751; July 25.
Ozone generator. H. B. Hartman. No. 1,423,658; July 25.
Padlock, Permutation. F. A. Durbin. No. 1,423,840; July 25.
Pails, Machine for applying ears to. W. Spain. No. 1,423,693; July 25.
Paper-conveying mechanism. J. D. McCracken. No. 1,424,952; July 25.
Paper fastener. B. H. Freedman. No. 1,423,520; July 25.
Paper-feeding mechanism. D. Noble. No. 1,424,116; July 25.
Paper-stock regulator. L. B. Decker. No. 1,423,555; July 25.
Pedestal. J. Lurts. No. 1,423,951; July 25.
Pencil. W. P. De Witt and D. J. La France. No. 1,423,603; July 25.
Pencil attachment. C. E. Hansen. No. 1,424,096; July 25.
Perambulator and push chair, Convertible. W. E. Carter. No. 1,423,912; July 25.
Perforating machine, Sheet-. H. K. Sandell. No. 1,423,736; July 25.
Phonograph-record cabinet. A. Wiehl. No. 1,424,054; July 25.
Phonographs, Record wiper for. C. Landgraf and J. Hernacki. No. 1,424,023; July 25.
Phonographs, Tone modifier for. F. W. Cooley. No. 1,423,832; July 25.
Photographic materials, High-temperature development of. A. J. Agnew and F. F. Renwick. No. 1,424,062; July 25.
Photographic-view finder. P. J. and W. O. Marks. No. 1,423,809; July 25.
Picture machines, Automatic stop for moving-. J. B. Kuhn. No. 1,423,948; July 25.
Pictures and the like, Transmitting. H. K. Sandell. No. 1,423,737; July 25.
Pier, Ocean. A. C. Rush. No. 1,423,884; July 25.
Pilot-light burner. J. Brombacher. No. 1,423,750; July 25.
Pipe: *See*—
Tobacco pipe.
Pipe clamps and the like, Divided ring for. J. Clark. No. 1,423,754; July 25.
Pipe wrench. P. G. Green. No. 1,423,793; July 25.
Piston. J. A. Cole and L. J. Shorter. No. 1,424,002; July 25.
Piston. H. Kistner. Nos. 1,423,615–6; July 25.
Piston ring. T. B. Jones. No. 1,423,943; July 25.
Plant protector. N. H. Hassel. No. 1,423,659; July 25.
Plaster-board support. M. H. Jester. No. 1,423,939; July 25.
Plaster support for walls. S. J. Potter. No. 1,423,879; July 25.
Plastering of walls, Appliance for throwing mortar for the. T. Moser. No. 1,423,536; July 25.
Platforms, Level indicator for. G. W. and C. B. King, B. Jacoby, H. E. Roush, and G. Holmes. No. 1,423,529; July 25.
Pocketbook protector. M. J. Palmer. No. 1,423,539; July 25.
Poke, Animal. P. Barney. No. 1,423,706; July 25.
Powder puff. M. W. and A. E. Willson. No. 1,423,745; July 25.
Power cable-reeling mechanism for self-propelled machines. J. S. Townsend. No. 1,423,889; July 25.
Power jack, Electric. J. M. Crum. No. 1,423,834; July 25.
Power plant. W. P. Butusov. No. 1,423,514; July 25.
Press: *See*—
Printing press.
Press. W. Klocke. No. 1,423,617; July 25.
Press. W. Klocke. No. 1,423,769; July 25.
Presses, Auxiliary sheet gauge for platen. A. Danziger. No. 1,423,835; July 25.
Pressure draft gauge. W. Kemp. No. 1,423,565; July 25.
Price-tag holder. L. E. Ericson. No. 1,423,655; July 25.
Printing and embossing, Die press for. F. W. Wood. No. 1,423,589; July 25.
Printing press. E. J. Gowdy. No. 1,423,792; July 25.
Pump. E. C. Cummings. No. 1,424,004; July 25.
Pump. K. Herman. No. 1,423,852; July 25.
Pump. W. S. Holdaway. No. 1,423,768; July 25.
Pump. R. F. Hopkins and O. F. Devolld. No. 1,423,935; July 25.
Pump, Air. W. A. Swan. No. 1,424,123; July 25.
Pump mechanism, Fluid-. F. C. Guerrlich. No. 1,423,559; July 25.
Pump, Oil-well. J. J. Larkin and R. L. Gordon. No. 1,423,860; July 25.
Pump, Tire-operated multiple air. D. F. Groat. No. 1,423,607; July 25.
Punch and die set. S. Diamant. No. 1,423,917; July 25.
Punch, Rotary. J. Q. Sherman. No. 1,423,690; July 25.
Radioelectron oscillator. C. R. Fountain. No. 1,424,091; July 25.
Rail chair. C. Mallteh. No. 1,423,534; July 25.
Railings and the like, Fitting for. A. Falk. No. 1,423,927; July 25.
Railway tie and securing device. S. Wallwork. No. 1,423,702; July 25.
Railway-traffic-controlling systems. L. V. Lewis. No. 1,423,862; July 25.
Railway train-order semaphores, Signal device for. H. A. Selin. No. 1,423,689; July 25.
Range-finding and the like instrument. H. D. Taylor. No. 1,424,125; July 25.
Ratchet crank. G. E. Sprague. No. 1,424,045; July 25.
Recorder: *See*—
Time recorder.
Reel: *See*—
Tape reel.
Refrigerator. C. H. Leonard. No. 1,423,532; July 25.
Register: *See*—
Account register.
Regulator: *See*—
Burner regulator. Paper-stock regulator.
Frequency regulator.
Remittance reminder. H. M. Stewart. No. 1,423,886; July 25.
Reproducer. C. J. del'Marmol. No. 1,424,087; July 25.
Resilient wheel. C. Johnson. No. 1,424,101; July 25.
Resin, Polyglycerol. L. Weisberg and R. S. Potter. No. 1,424,137; July 25.
Retorts and other refractory shapes, Making of zinc. W. F. Rossman. No. 1,424,120; July 25.
Retorts, Water seal for gas. A. W. Warner. No. 1,423,975; July 25.
Rice-preservation process. S. I. Christensen. No. 1,423,830; July 25.
Rim, Collapsible. W. E. Miller. No. 1,423,811; July 25.
Rim fastener. W. Broadway and T. C. Pledger. No. 1,424,078; July 25.
Rim tool. P. R. Peterson. No. 1,423,875; July 25.
Ring: *See*—
Piston ring.
Ring gauge. M. L. Clopton. No. 1,424,082; July 25.
Road, Highway. W. E. Williams. No. 1,423,893; July 25.
Road rollers, Derrick attachment for. J. Mascetti. No. 1,423,724; July 25.
Rod: *See*—
Connecting rod.
Roller: *See*—
Feed roller.
Rolling mills, Delivery mechanism for. A. E. Jupp and B. C. Crooks. No. 1,423,856; July 25.
Routing tool. J. N. Baker. No. 1,423,511; July 25.

Rubber and filamentary material and products obtained therefrom, Production of fabrications of. E. Hopkinson. No. 1,424,020; July 25.
Rubber-containing latex, Product obtained from. E. Hopkinson. No. 1,423,526; July 25.
Rubber, containing latex, Treating. E. Hopkinson. No. 1,423,525; July 25.
Saltcellar. J. E. Scott. No. 1,424,040; July 25.
Sampling apparatus. R. K. Warner. No. 1,423,890; July 25.
Sand feeder. K. S. Howard. No. 1,423,854; July 25.
Saw. O. D. Eshelman and W. F. Boast. No. 1,423,843; July 25.
Sawing machine. F. J. Scott. No. 1,424,039; July 25.
Scaffold carrier. A. E. Camp. No. 1,423,998; July 25.
Scale beams, Automatic latch for. J. J. Magrady. No. 1,423,772; July 25.
Scale, Weighing. H. O. Hem. No. 1,423,660; July 25.
Scales, Weight indicator for. H. C. Schaper. No. 1,423,885; July 25.
Scissors, Stitch clipper for. C. Francisco. No. 1,423,791; July 25.
Screed holder. G. W. Brooks. No. 1,423,991; July 25.
Screw driver. J. E. McCafferty. No. 1,423,722; July 25.
Seal. H. R. Rogers. No. 1,423,881; July 25.
Seam-setting tool. H. F. G. Schuske. No. 1,423,581; July 25.
Seat: *See*—
Locomotive-engineer's seat. Valve seat.
Seed and ground tester. J. B. White. No. 1,423,979; July 25.
Sewers, Receiver and stench trap for. J. Etchebéhère. No. 1,423,925; July 25.
Shale, Distilling. E. E. Hedges. No. 1,423,716; July 25.
Sheet metal, Manufacture of blanks of. F. Drury. No. 1,424,005; July 25.
Shelving and other articles, Locking mechanism for. A. H. Levene. No. 1,423,861; July 25.
Shim. J. H. Akins. No. 1,424,063; July 25.
Shipping container, Collapsible. N. K. Hunt. No. 1,424,099; July 25.
Shock absorber. O. F. Blyburg. No. 1,423,904; July 25.
Shock absorber. J. Konigaberg. No. 1,423,946; July 25.
Shock absorber. E. S. Lehr. No. 1,423,667; July 25.
Shoe-buttoning device. J. Szigethy. No. 1,423,782; July 25.
Shoe laces, Machine for making. G. H. Armitage. No. 1,423,984; July 25.
Shoehorn. H. E. Peck. No. 1,424,030; July 25.
Signal: *See*—
Automobile theft signal. Danger signal.
Signaling system. E. H. Armstrong. No. 1,424,065; July 25.
Skylight lift. A. G. Pitz and O. X. Saur. No. 1,423,817; July 25.
Sled. A. C. Gilbert. No. 1,424,011; July 25.
Small arm comprising a striker sliding in a breech bolt. J. Declaye. No. 1,423,836; July 25.
Soap-holding brush. F. S. Brown. No. 1,423,992; July 25.
Sound box. H. Berman. No. 1,423,707; July 25.
Spade. E. W. Mundt. No. 1,423,775; July 25.
Spike. W. W. Yehling. No. 1,424,058; July 25.
Spinning, doubling, and twisting machine. R. E. Hines. No. 1,423,801; July 25.
Spring wheel. W. Piernikowski and S. Grudzinski. No. 1,423,733; July 25.
Steam boiler, Oil-fired. B. Greenfield. No. 1,423,764; July 25.
Steel, Producing silicon-manganese-chrome. G. Gustafson, A. A. Jungmarker, and K. A. Caspersson. No. 1,423,847; July 25.
Steering gears, Antilock device for. W. F. Staggers. No. 1,423,820; July 25.
Stem-making machine. L. E. Mitchell and A. J. White. No. 1,423,957; July 25.
Stitching machines, Delivery mechanism for signature-. M. Christensen. No. 1,423,647; July 25.
Stoker, Locomotive. M. M. Lower. No. 1,423,533; July 25.
Strainer, Sink. P. Lacoste. No. 1,424,022; July 25.
Stranding machine. M. Morrison. No. 1,423,776; July 25.
Substances by distillation with a solvent, Purification of. G. C. Bailey, C. W. Fischer, and J. F. W. Schulze. No. 1,424,138; July 25.
Suction cleaner. W. V. Orr. (Reissue.) No. 15,423; July 25.
Suction duster. R. D. Buitrago. No. 1,423,993; July 25.
Sulphur compounds from mineral oils and the like, Obtaining. J. C. Clancy. No. 1,423,711; July 25.
Supercalender, Multiple-roll. C. Schürmann. No. 1,423,969; July 25.
Support and cutter. H. M. Thomas and M. Fogel. No. 1,424,060; July 25.
Surf-breaking apparatus, Automatic. H. O. Barlow. No. 1,423,640; July 25.
Swimming harness. H. L. Smith. No. 1,423,633; July 25.
Swimming race. R Sato and C. Matsui. No. 1,424,038; July 25.
Switch: *See*—
Connector switch. Track switch.
Switch construction. S. Wallwork. No. 1,423,703; July 25.
Swivel members, Manufacture of. S. W. Parsons. No. 1,424,029; July 29.
Tag, Shipping. A. E. Fish. No. 1,423,557; July 25.
Tail light and number plate. R. S. Croshaw; No. 1,423,648; July 25.
Talking-machine record, Laminated. V. H. Emerson. No. 1,423,517; July 25.
Tank gauge. W. J. Schaedler. No. 1,423,544; July 25.
Tape reel. C. F. Dieckmann. No. 1,423,516; July 25.
Tapes, Latch release for. C. W. Crogan. No. 1,424,085; July 25.
Tearing tester. A. Elmendorf. Nos. 1,423,841–2; July 25.
Teeth, Mold guide for artificial. C. J. Duffy. No. 1,423,921; July 25.
Telephone switchboard apparatus. B. Frelle. No. 1,423,930; July 25.
Telephone system, Automatic. G. A. Yanochowski. Nos. 1,423,898–9; July 25.
Tennis racket. G. Agutter. No. 1,423,900; July 25.
Tension device and yarn cleaner. G. N. Taylor. No. 1,424,124; July 25.
Testing apparatus for indicating leaks. G. Bauer and F. Kramer. No. 1,423,902; July 25.
Thrashing machine. G. E. Richmond. No. 1,424,119; July 25.
Time recorder. G. Krum. No. 1,423,805; July 25.
Time tables, Device for holding engineers'. V. W. Duff. No. 1,423,920; July 25.
Tire. J. J. P. Walsh. No. 1,423,549; July 25.
Tire bead, Method of and apparatus for forming a. W. G. Fording. No. 1,423,929; July 25.
Tire carrier. H. B. Tuttle. No. 1,423,699; July 25.
Tire casing, Pneumatic-. N. W. McLeod. No. 1,423,771; July 25.
Tire-making machine. F. C. Morton. No. 1,423,870; July 25.
Tire, Nonpuncturable. G. A. Weber. Nos. 1,423,976–7; July 25.
Tire protector. G. W. Somerville. No. 1,423,692; July 25.
Tire rim, Collapsible. J. H. Bowles. No. 1,424,073; July 25.
Tire rim, Demountable. J. H. Jones. No. 1,423,942; July 25.
Tire rim, Sectional. H. H. Hively. No. 1,424,019; July 25.
Tire tread, Pneumatic. B. Darrow. No. 1,424,131; July 25.
Tires, Inner tube for pneumatic. C. B. Orr. No. 1,424,135; July 25.
Tires, Nonskid attachment for vehicle. J. N. Burris. (Reissue.) No. 15,418; July 25.
Tires of the solid type, Building. P. W. Litchfield. No. 1,424,134; July 25.
Tires, Resilient core for motor. G. A. H. Robbins and S. F. E. Einsiedel. No. 1,423,580; July 25.
Tires, Sectional inner strip for automobile. W. Berman. No. 1,423,748; July 25.
Tires, Valve device for pneumatic. J. N. Newsom and H. E. Harder. No. 1,423,873; July 25.
Tobacco pipe. J. Mesaros. No. 1,423,620; July 25.
Tobacco pipes, Attachment for. J. C. Monmonier. No. 1,423,869; July 25.
Tool. B. W. Christian. No. 1,424,001; July 25.
Tool holders, Pin retainer for. L. C. Bayles. No. 1,423,595; July 25.
Tooth and crowns, Tube. A. H. Sibley and G. L. Van Allen. No. 1,423,628; July 25.
Toy. G. A. King. No. 1,423,566; July 25.
Toy. J. and H. Shapiro. No. 1,423,819; July 25.
Toy arrow. A. D. Adriance. No. 1,423,551; July 25.
Toy, Figure. J. C. Lackey. No. 1,423,618; July 25.
Toy operated by gramophones, Mechanical. H. J. Hastings and C. S. Smith. No. 1,424,015; July 25.
Track switch. J. Paige. No. 1,423,965; July 25.
Traction lug. W. Levy. No. 1,423,568; July 25.
Tractor. J. M. Denning. (Reissue.) No. 15,420; July 25.
Tractor. F. C. Olin. No. 1,423,962; July 25.
Tractor. G. J. Ziegler. No. 1,424,128; July 25.
Tractor and plowing attachment therefor. P. A. Reinhold. No. 1,423,736; July 25.
Tractor coupling. A. Wilde. No. 1,423,785; July 25.
Tractor driving and mechanism therefor. C. N. and F. C. Beal. No. 1,423,642; July 25.
Tractor-driving mechanism. J. C. F. Dick. No. 1,423,758; July 25.
Tractor wheel. H. G. Howard. No. 1,424,098; July 25.
Trailers, Steering gear for. A. Arbetblatt. No. 1,424,129; July 25.
Transmission mechanism, Differential. G. C. Jett. No. 1,423,940; July 25.
Trap: *See*—
Animal trap.
Traveling block. B. Boykin, jr. No. 1,424,075; July 25.
Trimming device. F. H. Grove. No. 1,424,012; July 25.
Trolley-aligning harp. S. S. Matthes. No. 1,423,575; July 25.
Trough. G. G. Bayne. No. 1,423,552; July 25.
Trousers support. A. Rose. No. 1,423,684; July 25.
Truck for locomotives, Trailer. W. E. Woodard. No. 1,423,895; July 25.
Truck loading and unloading mechanism. R. F. Stewart. No. 1,423,887; July 25.
Truck, Power. J. Kramer, F. O. Kuehne, jr., and W. H. Kopplin. No. 1,423,947; July 25.
Tube expander and beading tool, Combined. J. J. Smith. No. 1,423,545; July 25.

Car-loading device, Tank-. E. H. Rudolph. No. 1,424,037; July 25.
Car, Scooter. W. Bunde. No. 1,423,994; July 25.
Car-seat construction. F. Andrusyszyn. No. 1,423,508; July 25.
Cars, Winding shaft and chain guard for dump. O. L. Burford and H. De Bardeleben. No. 1,423,752; July 25.
Carton sealer. G. K. Henderson. No. 1,424,018; July 25.
Car wheels, Washer for mine-. R. F. Phillips and L. J. McCloskey. No. 1,423,877; July 25.
Carrier: *See*—
Grain carrier. Tire carrier.
Scaffold carrier.
Case: *See*—
Key case.
Cask, drum, or the like, Metal. S. C. Mount. No. 1,423,673; July 25.
Caster, Ball-bearing. W. W. Noelting. No. 1,424,028; July 25.
Caster pintles, Locking means for. G. F. Van Meter. No. 1,423,700; July 25.
Casting process. G. Engel, sr. No. 1,423,654; July 25.
Catalyzing material, Preparing. E. Weintraub. No. 1,423,978; July 25.
Cementing and protecting composition. L. E. Barringer. No. 1,423,985; July 25.
Cement tie and rail fastener. A. L. Crane. No. 1,423,690; July 25.
Centrifugals, Method of and means for washing. B. A. Steps. No. 1,423,583; July 25.
Chain lock. L. J. Wand. No. 1,423,974; July 25.
Chains, Flight for conveyer. S. V. Tench. No. 1,424,126; July 25.
Chaplets, Machine for making. R. P. Throne. No. 1,423,586; July 25.
Chair: *See*—
Convertible chair. Folding chair.
Desk and chair. Rail chair.
Check and stub, Bank. D. L. Sterling. No. 1,423,744; July 25.
Check, Creep. L. O. Henggi. (Reissue.) No. 15,421; July 25.
Chute, Coal. E. E. Neal. No. 1,423,872; July 25.
Chute, Discharge. R. E. Gibson and H. Nicoll. No. 1,424,010; July 25.
Chute support. G. Buchan, sr. No. 1,423,643; July 25.
Cigar rest. L. Allen. No. 1,423,597; July 25.
Cigars, Slitting attachment for. W. M. Jackson. (Reissue.) No. 15,422; July 25.
Cinematograph. J. Sucsenaik. No. 1,423,697; July 25.
Cinematographic film. S. Kucharski. No. 1,423,770; July 25.
Clamp. W. C. Heatlie. No. 1,423,933; July 25.
Clamp. H. Rigert. No. 1,424,034; July 25.
Clasp: *See*—
Lingerie clasp.
Cleaner: *See*—
Suction cleaner.
Clock, Call. C. R. Gains. No. 1,424,092; July 25.
Closure. F. E. Baldwin. No. 1,423,592; July 25.
Clothesline adjuster. G. Cole. No. 1,424,084; July 25.
Clothesline hanger. F. O. Lake. No. 1,423,530; July 25.
Clothesline support. C. F. Franzen. No. 1,423,762; July 25.
Clutch. D. G. Roos. No. 1,424,036; July 25.
Clutch and reversing mechanism, Electromagnetic. E. J. Murphy. No. 1,424,027; July 25.
Clutch, Dog. W. Skaife. No. 1,423,631; July 25.
Clutch-lever retainer. M. L. Cline and F. Herge. No. 1,424,081; July 25.
Coal-handling device. H. D. Bartlett. No. 1,423,986; July 25.
Coating metals for the purpose of permitting electric currents to operate by the action of light, Composition for. H. L. Falk. No. 1,424,088; July 25.
Coating or sealing composition. M. I. Strauss. No. 1,423,821; July 25.
Coffee roaster. N. B. Post. No. 1,423,818; July 25.
Coffin. J. H. Harper. No. 1,423,848; July 25.
Coke ovens, Automatic regulator for. W. M. Shallcross. No. 1,424,042; July 25.
Color-matching room. G. S. Radford. No. 1,423,882; July 25.
Comb-cutting machine. H. Schelhammer. Nos. 1,423,967–8; July 25.
Combs, Machine for making. C. E. Wing and H. Schelhammer. No. 1,423,981; July 25.
Concentrating table and method. V. F. Newman and M. W. Loomis. No. 1,423,777; July 25.
Concrete beams, Mold for. S. Bruun. No. 1,423,708; July 25.
Concrete building structure. J. Partee. No. 1,423,779; July 25.
Concrete products such as blocks, panels, and structures, Molding of. J. Woolcock. No. 1,423,983; July 25.
Cone-winding machines, Attachment for. A. A. Johnson. No. 1,424,100; July 25.
Confectionery, Dispensing and display holder for. H. D. Foss. No. 1,423,845; July 25.
Connecting rod. F. A. Dreher. No. 1,423,788; July 25.
Connector switch. G. A. Yanochowski. No. 1,423,897; July 25.
Containers, Apparatus for sealing. N. P. Bach. No. 1,423,591; July 25.
Control system. C. P. Connely. No. 1,424,003; July 25.
Convertible chair. H. C. Bunnell. No. 1,423,995; July 25.
Cooking utensil. W. J. Murphy. No. 1,423,961; July 25.
Cop or bobbin holder. E. Adell and C. A. Brink. No. 1,423,824; July 25.
Corn planter. P. I. Garner. No. 1,423,932; July 25.
Cotton gins, Breast-actuating mechanism for. J. R. Hubbard. No. 1,424,021; July 25.
Coupling: *See*—
Car coupling. Tractor coupling.
Crank cases, Oil-level-indicating attachment for. A. F. Gillet. No. 1,423,558; July 25.
Crate, Folding. A. H. Blakemore. No. 1,423,596; July 25.
Crate, Folding. J. W. Lucabaugh. No. 1,423,863; July 25.
Crib. A. Isen. No. 1,423,663; July 25.
Current motor. E. S. Hicks. No. 1,423,717; July 25.
Curtain-window light. J. B. Schaaf. No. 1,423,685; July 25.
Cut-out device, Pneumatic. C. C. Farmer. No. 1,424,007; July 25.
Cutter: *See*—
Vegetable cutter.
Cutting apparatus. N. M. Johnson. No. 1,424,133; July 25.
Cutting machine. P. S. Mitts and W. J. Winston. No. 1,423,867; July 25.
Cutting tool, Circle-. M. A. Butterfield. No. 1,423,828; July 25.
Danger signal. W. F. Moran. No. 1,423,727; July 25.
Davit, Automatically-braked. A. P. Schat. No. 1,423,739; July 25.
Desk and chair. O. G. Henderson. No. 1,423,661; July 25.
Dicyandiamide, Making. H. C. Hetherington and J. M. Braham. No. 1,423,799; July 25.
Diestock. J. Konigsberg. No. 1,423,945; July 25.
Differential mechanism. G. C. Jett. No. 1,423,941; July 25.
Direction indicator. J. W. Wheeler, jr. No. 1,423,588; July 25.
Dishpan. E. G. Taylor. No. 1,423,548; July 25.
Disk wheel, Metal. J. A. Charter. No. 1,423,598; July 25.
Display rack. G. A. Taylor. No. 1,423,585; July 25.
Distillation of material carrying a percentage of volatile matter. G. M. Johns. No. 1,423,527; July 25.
Diving apparatus. J. C. Eckert, jr. No. 1,423,923; July 25.
Door buffer. J. Galamb. No. 1,423,521; July 25.
Door lock and applying the same. W. Anderson. No. 1,423,825; July 25.
Door lock, Sliding-. F. Andrusyszyn. No. 1,423,509; July 25.
Double-gear jack, Quick-action. A. W. Marr. No. 1,423,671; July 25.
Dress guard. A. H. De Voe. No. 1,423,602; July 25.
Drill. A. L. Hawkesworth. No. 1,423,849; July 25.
Drilling device. W. S. McBride. No. 1,424,109; July 25.
Drills, etc., Connecting rod for. H. J. Kimman. No. 1,423,614; July 25.
Drills, Detachable bit for. H. H. Des Roches. No. 1,423,713; July 25.
Drying apparatus. R. B. Hibbard, D. J. Watrous, and J. G. Bassette. No. 1,423,800; July 25.
Drying process and apparatus. C. Field. No. 1,423,928; July 25.
Dust cap. A. B. Catterall. No. 1,423,515; July 25.
Ear trumpet for truck drivers. E. W. Hofstatter. No. 1,423,802; July 25.
Electrical apparatus. L. A. Haworth. No. 1,424,016; July 25.
Electrical oscillation generator. L. F. Fuller. No. 1,424,141; July 25.
Electrical plants, Device for automatically controlling the output of. M. Doloukhanoff. No. 1,423,839; July 25.
Electric contact wires, Means for the suspension of. M. Semenza. No. 1,423,582; July 25.
Electric controlling apparatus. F. H. Bullinger. No. 1,423,907; July 25.
Electric fixture. F. L. Butler. No. 1,423,646; July 25.
Electric fixtures, Switch-supporting attachment for. F. L. Butler. No. 1,423,645; July 25.
Electric-lighting fixture. P. L. Haislip. No. 1,424,095; July 25.
Electric-lighting fixtures, Stem for. E. Rockoff. No. 1,423,683; July 25.
Electric machine, Dynamo-. A. H. Mittag. No. 1,423,958; July 25.
Electric machines, Arc barrier for dynamo-. J. L. Burnham. No. 1,423,996; July 25.
Electrolyzing solutions, Apparatus for. K. E. Stuart. No. 1,423,584; July 25.
Electroplating process. N. V. Park. No. 1,423,815; July 25.
Electrotinning. L. Schulte. No. 1,423,686; July 25.
Elevator and mine shafts, Automatic gate mechanism for. C. Drum. No. 1,423,919; July 25.
Engine: *See*—
Internal-combustion engine. Internal-combustion and hot-air engine.
Engine governor. J. B. Replogle. No. 1,424,140; July 25.
Engines, Fuel-supply apparatus for internal-combustion. W. C. Carter. No. 1,423,915; July 25.

Engines, Ignition apparatus for internal-combustion. N. Winblad. No. 1,424,056; July 25.
Engines, Magneto ignition system for internal-combustion. J. L. Milton. No. 1,423,672; July 25.
Engines, Spark-testing device for gasoline. W. P. Mott. No. 1,423,622; July 25.
Envelope. H. J. Eickoff. No. 1,423,653; July 25.
Envelope. B. A. Larsen. No. 1,424,024; July 25.
Envelope-feeding mechanism. C. Chisholm. (Reissue.) No. 15,419; July 25.
Equalizer, Four-horse. J. Robson. No. 1,423,682; July 25.
Excavator. J. A. Gilman. No. 1,424,093; July 25.
Extractor. D. H. Benjamin and A. R. Curtis. No. 1,423,827; July 25.
Fabric-cutting apparatus. J. F. Hennessy. No. 1,423,798; July 25.
Fan wheel. R. W. Oswald. No. 1,423,964; July 25.
Fastener-setting machine. W. Shaw. No. 1,423,626; July 25.
Fastening means and applying same. M. Craighead. No. 1,423,833; July 25.
Feed roller. P. H. Vaughn. No. 1,423,783; July 25.
Feeder, Poultry. C. E. Canell. No. 1,424,079; July 25.
Feeder, Stock. A. J. Davis. No. 1,423,915; July 25.
Feeding device. F. S. Thurston. No. 1,423,698; July 25.
Fence post. W. P. Heckler. No. 1,423,934; July 25.
Fender: *See*—
Bumper-bar fender.
Fertilizer distributor. D. C. Daniel. No. 1,423,649; July 25.
File, Storage. S. C. Huffman. No. 1,423,936; July 25.
Filing tray or drawer. C. C. Carpenter. No. 1,424,080; July 25.
Flame and cutting tools, Plate for resisting. R. S. Edmondson. No. 1,423,832; July 25.
Flower receptacle. J. Brettschneider. No. 1,423,906; July 25.
Fluid gauge, Visible. M. W. Joy. No. 1,424,104; July 25.
Fluid-pressure brake. E. M. Richards. No. 1,424,033; July 25.
Fluids, Means for controlling the flow of. C. H. Cochrane. No. 1,423,831; July 25.
Flushing apparatus. L. Solheid. No. 1,423,634; July 25.
Flushing mechanism. O. H. Theleen. No. 1,423,888; July 25.
Flying machine. T. Vuia. No. 1,423,636; July 25.
Folding chair. H. E. Barrows. No. 1,423,594; July 25.
Folding chair. P. H. Peters. No. 1,424,031; July 25.
Frequency changer. A. H. Mittag. No. 1,423,959; July 25.
Frequency regulator. L. Espenschied. No. 1,423,518; July 25.
Fuel, Means for continuous predrying of. O. Nordström. and A. Mörck. No. 1,423,728; July 25.
Furnaces, Liquid-cooled conduit for. H. A. Poppenhusen. No. 1,423,540; July 25.
Fuse, Impact. S. G. Malby. No. 1,424,112; July 25.
Garbage and refuse of towns, Apparatus for working. G. Beccari. (Reissue.) No. 15,417; July 25.
Garden tool. A. Miller. No. 1,423,865; July 25.
Garment fastener. B. J. Mulvey. No. 1,423,813; July 25.
Garment fastener. W. Zimmerman. No. 1,423,590; July 25.
Garment-supporting device. E. Bowler. No. 1,423,749; July 25.
Garments, Slide for the straps of. C. E. Anderson. No. 1,423,639; July 25.
Gas, Apparatus for and process of purifying. A. L. Stevens. No. 1,423,696; July 25.
Gasoline and the like, Producing. J. C. Clancy. No. 1,423,709; July 25.
Gasoline purifier. W. J. Sedelbauer. No. 1,423,970; July 25.
Gas producer and process. E. M. Braxton. No. 1,424,077; July 25.
Gauge: *See*—
Bore gauge. Ring gauge.
Heel gauge. Tank gauge.
Lamp gauge. Visible fluid gauge.
Pressure draft gauge.
Gear housing. J. A. Neathammer. No. 1,423,675; July 25.
Generator: *See*—
Electrical oscillation generator. Ozone generator.
Glove and making same. G. P. Bosworth. No. 1,424,072; July 25.
Glove, Reversible. J. L. Speer. No. 1,423,546; July 25.
Gluer, Ton. L. E. La Bombard and M. H. Sidebotham. No. 1,423,567; July 25.
Gocarts and invalid chairs, Robe for children's. E. R. C. Buchard. No. 1,423,908; July 25.
Grain and a product for effecting the same, Cooking. H. M. Greene. No. 1,424,132; July 25.
Grain-carrier. O. B. Hall. No. 1,423,609; July 25.
Gun retracting mechanism. B. P. Joyce. No. 1,424,106; July 25.
Gyratory motion, Driving mechanism for producing. B. Neal and G. H. Hebebrand. No. 1,423,871; July 25.
Hair clipper, Electric. L. David. No. 1,423,756; July 25.
Hairpin. T. Gregory. No. 1,423,606; July 25.
Hair slide. O. E. Buley. No. 1,423,644; July 25.
Handle. E. A. Weibel. No. 1,424,052; July 25.
Hanger: *See*—
Clothes hanger.
Heat economiser, Waste-. J. E. Bell. No. 1,423,826; July 25.
Heat exchanger or condenser. P. St. Clair, jr. No. 1,423,695; July 25.
Heater unit. H. A. Silverman. No. 1,423,742; July 25.
Heating device, Electric. W. F. Lebzelter. No. 1,423,606; July 25.
Heating devices, Fuel feed for. F. S. Seymour. No. 1,424,041; July 25.
Heating drum. C. A. De Jaco. No. 1,423,651; July 25.
Heel-breasting machine. R. C. Simmons. No. 1,423,743; July 25.
Heel fastener. L. Cerf. No. 1,423,787; July 25.
Heel gauge. J. S. Lansill. No. 1,423,859; July 25.
Heel-log-cutting machine. J. E. Mitchell and D. Parks. No. 1,423,621; July 25.
Hinge. J. R. Moody. No. 1,423,812; July 25.
Hinge and stop for desk lids, Combined. C. A. Brown. No. 1,423,513; July 25.
Hinge check. G. Vuille. No. 1,423,784; July 25.
Hoisting apparatus. C. E. Smith. No. 1,423,971; July 25.
Hoist, Mechanical. F. E. Ackerman. No. 1,423,638; July 25.
Hoists, Limit switch for electric-driven. R. E. Rice. No. 1,423,624; July 25.
Hook: *See*—
Cant hook.
Hose, Flexible metal. E. Witzenmann. No. 1,424,057; July 25.
Husker. G. W. Zeier. No. 1,424,060; July 25.
Husking mitten. M. Sautter. No. 1,423,543; July 25.
Hydrocarbon containers, Attachment for. J. Bingman. No. 1,424,068; July 25.
Hydrometer. J. O. Luthy. No. 1,424,108; July 25.
Ice conveyer. L. F. Pixley. No. 1,423,732; July 25.
Identification and coding system. J. F. Gelmaw. No. 1,423,763; July 25.
Indicator: *See*—
Automobile direction indicator. Direction indicator.
Internal-combustion and hot-air engine. A. Bagnulo. No. 1,423,705; July 25.
Internal-combustion engine. N. Isachson. No. 1,423,718; July 25.
Internal-combustion engine. A. E. Nicholls. No. 1,423,677; July 25.
Internal-combustion engine. F. L. H. Pfeil. No. 1,423,680; July 25.
Internal-combustion engine, Two-cycle. A. G. L. and H. C. W. Neighbour. No. 1,423,578; July 25.
Jack: *See*—
Double-gear jack. Power jack.
Joint: *See*—
Universal joint.
Journal lubricator. J. J. Hennessy. Nos. 1,423,850–1; July 25.
Key case. W. R. Buxton. No. 1,423,909; July 25.
Key holder. W. G. Staples. No. 1,424,121; July 25.
Knickers. P. Leiken. No. 1,423,668; July 25.
Knitting machines, Automatic tension-controlling means for. J. Lawson. No. 1,424,025; July 25.
Ladder construction, Rope. R. D. Nileon. No. 1,424,115; July 25.
Ladder platform and roof jack. C. J. and U. J. Mohr. No. 1,423,725; July 25.
Lamp and similar article, Tipless incandescent. L. E. Mitchell and A. J. White. No. 1,423,956; July 25.
Lamp gauge. R. Beman. No. 1,424,067; July 25.
Lantern, Portable electric. A. D. Cardwell. No. 1,423,911; July 25.
Last. J. C. Schelter. No. 1,423,740; July 25.
Latch, Window. J. Szaby. No. 1,424,048; July 25.
Let-off mechanism, Friction band for. C. H. Slinger. No. 1,423,780; July 25.
Letter sheet. H. B. Campbell. No. 1,423,910; July 25.
Light: *See*—
Curtain-window light. Automobile tail light.
Lime-sulphur composition, Making dry soluble. E. H. French. No. 1,423,605; July 25.
Line holder. H. Monahan. No. 1,423,866; July 25.
Lingerie clasp. H. R. Johnson. No. 1,424,103; July 25.
Liquids, Foam covering for preventing the evaporation of stored. J. M. Jennings. Nos. 1,423,720–1; July 25.
Liquids, Stable foam for preventing the evaporation of stored. J. M. Jennings. No. 1,423,719; July 25.
Loader device. L. D. Potter and T. C. Nolan. No. 1,423,878; July 25.
Loading and unloading apparatus. C. B. Hastings. No. 1,423,765; July 25.
Lock: *See*—
Automobile lock. Door lock.
Car-door lock. Meter lock.
Chain lock. Window lock.
Lock. A. J. Fallon. No. 1,423,656; July 25.
Lock. B. Morgenthau. No. 1,424,136; July 25.
Lock. E. B. Stone. No. 1,424,040; July 25.
Lock. A. Boge. No. 1,423,553; July 25.
Lock and alarm, Combined. A. S. Cummings. No. 1,423,554; July 25.
Locomotive-engineers' seat. O. Johnson. No. 1,423,855; July 25.
Locomotives, Steam drifter mechanism for. F. B. Searle. No. 1,423,688; July 25.
Locomotives, Tool for facilitating the adjustment of the driving shoes of. C. Guggenbuehler. No. 1,423,795; July 25.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Account register, Credit-. H. A. Martin. No. 1,423,953; July 25.
Acids, Production of dicarboxylic. A. G. Williams. No. 1,423,980; July 25.
Acids, Treating sludge. I. Hechenbleikner and T. C. Oliver. Nos. 1,423,766–7; July 25.
Adjustable wrench. W. A. Martin. No. 1,423,723; July 25.
Aeroplane. G. L. Banks. No. 1,424,130; July 25.
Aeroplane. J. Hayes. Nos. 1,423,610–11; July 25.
Aeroplane. E. Wilder. No. 1,424,055; July 25.
Aeroplane fuselage and building same. E. G. Bahl. No. 1,424,066; July 25.
Aeroplanes, Attachment for. A. F. Erickson. No. 1,423,789; July 25.
Aeroplanes, Steering wheel for. W. C. Hurst. No. 1,424,143; July 25.
Air, Sterilizing. A. Wolff. No. 1,423,704; July 25.
Airplane. G. B. Post. No. 1,423,681; July 25.
Airplanes, Dual control for. B. D. Thomas. No. 1,424,049; July 25.
Airships, System or method of feeding combustion engines for. A. Boerner. No. 1,423,987; July 25.
Alarm systems, Detector for. F. E. Crawford. No. 1,423,601; July 25.
Ammonia-soda process, Conducting the. E. E. Arnold and P. St. Clair, jr. No. 1,423,510; July 25.
Animal trap. J. A. Hedberg. No. 1,423,715; July 25.
Antiskid device. T. J. O'Neil. No. 1,423,963; July 25.
Arsenical compounds, Manufacture of. K. B. Edwards. No. 1,424,006; July 25.
Ash receptacle. R. Ozabal. No. 1,423,538; July 25.
Atomizer. H. C. Brehmer. No. 1,423,989; July 25.
Automobile accessory. G. D. Orr. No. 1,423,730; July 25.
Automobile buffer. G. A. Lyon. Nos. 1,423,571–2; July 25.
Automobile bumper. W. E. Williams. No. 1,423,894; July 25.
Automobile bumper-attaching hanger. W. G. Pancoast and W. J. Grotenhuis. No. 1,423,874; July 25.
Automobile direction indicator. J. B. Blair. No. 1,424,070; July 25.
Automobile hoods, Fastening device for. F. Mathews. No. 1,423,773; July 25.
Automobile lock. S. G. Miller. No. 1,423,955; July 25.
Automobile lock. J. Sokolov. No. 1,423,691; July 25.
Automobile radiator shutters, Supporting and actuating means for. A. P. Wolfe. No. 1,423,982; July 25.
Automobile tail light. A. O. Svedahl. No. 1,424,047; July 25.
Automobile theft signal. H. M. Lake and O. C. Betry. No. 1,424,106; July 25.
Automobile top closures, Securing means for. H. E. Adams. No. 1,424,061; July 25.
Automobile top, One-man. J. Davis. No. 1,423,916; July 25.
Automobiles, Truck attachment for. D. J. Fuhrer. No. 1,423,931; July 25.
Bag: *See*—
Golf bag.
Bag, Golf. J. S. White. No. 1,423,891; July 25.
Bag holder. C. R Hellstrom. No. 1,424,017; July 25.
Bag holder. B. F. Miller. No. 1,424,026; July 25.
Ball. I. De Gowin. No. 1,423,837; July 25.
Ball-winding machine. E. G. Loomis. No. 1,423,807; July 25.
Balls, Method and apparatus for covering. I. De Gowin. No. 1,423,838; July 25.
Basket handle and lid fastener. G. R. Fowler. No. 1,424,009; July 25.
Battery cover. B. Kunkel. No. 1,424,144; July 25.
Bearing, Antifriction ball or roller. K. O. Leon. No. 1,423,950; July 25.
Bearing, Ball. L. Langhaar. No. 1,423,666; July 25.
Bearing, Water-cooled. J. Herman. No. 1,424,097; July 25.
Bed-bottom fabric. E. Drefs. No. 1,423,918; July 25.
Bed corner. A. Izen. Nos. 1,423,664–5; July 25.
Bed-rail fastener. A. S. Putnam. No. 1,423,623; July 25.
Beds, Drawer attachment for. C. Kontorowitz. No. 1,423,804; July 25.
Beds, Rail-fastening device for. J. Findura. No. 1,424,089; July 25.
Bee escape. H. D. Rogers. No. 1,423,883; July 25.
Belt. M. J. Maakestad. No. 1,424,110; July 25.
Belt conveyer, Self-training. M. A. Kendall. No. 1,423,528; July 25.
Bib, Creeper. M. F. Hale. No. 1,424,013; July 25.
Bill fold. C. L'Enfant. No. 1,423,669; July 25.
Bin-filling shut-off. M. L. and A. L. Bremer. No. 1,423,990; July 25.
Binders, Grain holder for. L. H. Stowell. No. 1,424,122; July 25.
Blank-handling mechanism. R. C. Simmons. No. 1,423,630; July 25.
Block: *See*—
Traveling block.
Boat. J. Solack. No. 1,424,044; July 25.
Boiler: *See*—
Steam boiler.
Bone resector. F. E. Miller. No. 1,423,866; July 25.
Bore gauge. H. M. Rockwell. No. 1,423,542; July 25.
Bottle, Milk. J. G. Hall. No. 1,423,560; July 25.
Bottles, etc., Carrier for. A. F. Brautigam. No. 1,424,076; July 25.
Bottle stoppers, Holder for hot-water. F. E. Baldwin. No. 1,423,593; July 25.
Box: *See*—
Sound box.
Box. E. J. Thole. No. 1,424,127; July 25.
Box and the like. S. S. Booty. No. 1,424,071; July 25.
Box-nailing machine. E. C. Northrup. No. 1,423,778; July 25.
Bracket. F. P. Miller. No. 1,423,535; July 25.
Braiding or similar machines, Yarn retriever for. S. W. Wardwell. No. 1,423,587; July 25.
Brake: *See*—
Fluid-pressure brake. Vehicle brake.
Brake. G. B. Youngs. No. 1,424,059; July 25.
Brake-beam release and support. C. H. Williams. No. 1,423,892; July 25.
Brake mechanism. W. C. Baker. No. 1,423,901; July 25.
Brass, Manufacture of. P. Dutoit. No. 1,423,922; July 25.
Broach. J. Oakley. No. 1,423,814; July 25.
Broom holder. J. L. Oefinger. No. 1,423,678; July 25.
Brush for talking machines. T. S. Grow. No. 1,423,523; July 25.
Bucket, Agitating and dumping. G. Johnson. No. 1,424,102; July 25.
Bucket holder, Paint-. C. J. and U. J. Mohr. No. 1,423,726; July 25.
Buffer, Resilient. G. A. Lyon. No. 1,423,573; July 25.
Buffer, Resilient front. G. A. Lyon. No. 1,423,570; July 25.
Building construction. E. A. Laughlin. No. 1,423,949; July 25.
Bumper-bar fender. W. W. Edwards. No. 1,423,604; July 25.
Buoys, Device for launching ring life. S. E. Hansen. No. 1,423,561; July 25.
Burner: *See*—
Oil burner. Pilot-light burner.
Burner regulator. A. G. Sherman. No. 1,423,627; July 25.
Butter-cutting machine, Automatic. I. C. Popper. No. 1,424,117; July 25.
Button and making same, Hose-supporter. L. D. Christie. No. 1,423,599; July 25.
Cabinet, Milk or cream. W. P. Fry. No. 1,423,714; July 25.
Cable guard, Crown-block. V. W. Zilen. No. 1,423,550; July 25.
Calculating machine. G. A. Selb. No. 1,423,741; July 25.
Calculating machine. O. Woodward. No. 1,423,637; July 25.
Calculating rule. W. L. Wyckoff. No. 1,423,896; July 25.
Cameras, Automatic focusing device for enlarging. F. J. Callier. No. 1,423,997; July 25.
Candle-making machine. R. Grossmann. No. 1,423,608; July 25.
Can-filling apparatus. W. L. Jones. No. 1,423,944; July 25.
Can-washing machine. W. H. Paulson. No. 1,423,816; July 25.
Cant hook, Unbreakable. J. W. Stolle. No. 1,423,781; July 25.
Cap. J. Carlson. No. 1,423,829; July 25.
Car buffers, Yielding resistance unit for. R. D. Gallagher, jr. No. 1,423,522; July 25.
Carburetor. C. A. Norlander. No. 1,423,579; July 25.
Carburetor and feeder, Pulverized-fuel. W. H. Whitaker. No. 1,424,053; July 25.
Car coupling. F. W. H. Hamann. No. 1,423,796; July 25.
Car-door lock. N. Hill. No. 1,423,562; July 25.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Stein, A., & Company, Chicago, Ill. Household aprons, girdle supporters, and baby pants. No. 148,624; July 25.
Stein, Charles, New York, N. Y. Umbrellas and parasols. No. 158,159; July 25.
Stewart, Clarence R., Spokane, Wash. Toy catapults and targets. No. 161,154; July 25.
Strype, Fred C., New York, N. Y. Wrapping and writing paper, writing tablets, envelopes, typewriter, bond, and ledger paper, and blank books. No. 162,067; July 25.
Sum-Shine Polish Co., Columbus, Ohio. Metal polish. No. 149,363; July 25.
Super Saftee Ink Corporation, New York, N. Y. Writing ink. No. 157,238; July 25.
Sweetola Company. (See Rimer, Orrseamles S.)
Tappan Stove Company, The, Mansfield, Ohio. Gas and coal ranges and stoves. No. 161,393; July 25.
Ternstedt Manufacturing Company, Detroit, Mich. Windshield wipers of the squeegee type. No. 163,898; July 25.
Tichner Bros. (See Dreifus, Tichner & Eckstein, assignors.)
Tonepen Company, New York, N. Y. Phonograph needles. No. 161,015; July 25.
Tri-Star Noodle Factory, Chicago, Ill. Noodles. No. 159,061; July 25.
Trust Estate of Adolph C. Meyer, deceased, trading as A. C. Meyer & Co., Baltimore, Md. Pills having laxative and tonic properties. No. 161,462; July 25.
United States Dental Specialty Co., San Francisco, Calif. Tooth paste. No. 161,288; July 25.
Valley Remedy Co., Sullivan, Ind. Cold capsules. No. 161,659; July 25.
Van Eps-Burr Corporation, New York, N. Y. Banjos. No. 162,077; July 25.
Van Sant, Wilbur N., Baltimore, Md. Monthly publication. No. 155,649; July 25.
Vega Company, The, Boston, Mass. Banjos. Nos. 161,708–9; July 25.
Vega Company, The, Boston, Mass. String, wind, and percussion musical instruments. No. 164,845; July 25.
Vermeulen, Leendert, Waddinxveen, near Gouda, Netherlands. Ointment for treatment of burns, scalds, etc. No. 145,481; July 25.
Vernon Manufacturing Co., Mount Vernon, N. Y. Ammonia. Nos. 158,270–1; July 25.
Victory Malt Company. (See Finkelstein, Morris.)
Vox-Schallplatten- und Sprechmaschinen-Aktiengesellschaft, Berlin, Germany. Talking machines, dictating machines, and records for talking machines. No. 160,167; July 25.
Walther, Louis, Manufacturing Company, Philadelphia, Pa. Worsted, woolen, worsted and cotton, woolen and cotton, and worsted and silk piece goods. No. 164,736; July 25.
Watts, Stephen K., New York, N. Y. Cotton goods, linens, madras, and other cotton fabrics. No. 161,869; July 25.
White, Edward F., doing business as The White Products Company (a firm), Norfolk, Va. Preparation for the treatment of coughs, bronchitis, croup, rheumatism, etc. No. 159,301; July 25.
White Products Company (a firm), The. (See White, Edward F.)
White-Washburne Company Inc., Hinsdale, N. H. Toilet paper. Nos. 164,739–41; July 25.
Wiley-Bickford-Sweet Co., The, Worcester, Mass. Knit goods in the piece. No. 157,051; July 25.
Wilson Chemical Company, The. (See Wilson, George C.)
Wilson, George C., trading as The Wilson Chemical Company, Tyrone, Pa. Face cream. No. 161,079; July 25.
Wix, J., and Sons. (See Wix, Julius.)
Wix, Julius, doing business as J. Wix and Sons, London, England. Smoking and chewing tobacco, cigarettes, cigars, and snuff. No. 165,248; July 25.
Wolff, Alexander & Co., New York, N. Y. Men's and boys' suits. No. 155,286; July 25.
Wolverine Supply and Manufacturing Company, Pittsburgh, Pa. Sand and marble operated mechanical toys. Nos. 160,222–4; July 25.
Youth-Ami Laboratories. (See Aboussleman, Joseph M.)

Cortland Line Co., Inc., Cortland, N. Y. Fishing lines. No. 164,391; July 25.
Cortland Line Co. Inc., Cortland, N. Y. Silk fishing lines. Nos. 164,392–4; July 25.
Cortland Line Co. Inc., Cortland, N. Y. Japan-silk fishing lines. Nos. 164,396–7; July 25.
Cortland Line Co. Inc., Cortland, N. Y. Fishing lines. No. 164,398; July 25.
Dasco Import Co., inc., New York, N. Y. Smoking pipes, cigar and cigarette holders, pipe cleaners, etc. No. 163,215; July 25.
Davenport Hosiery Mills, Chattanooga, Tenn. Knitted, cloth, and woven underwear for men, ladies, and children. No. 158,469; July 25.
Decouter Company, The, Chicago, Ill. Toothbrushes. No. 162,921; July 25.
Deep River Mills, inc., Randleman, N. C. Ginghams in the piece. No. 153,875; July 25.
De Nobili Cigar Co. Inc., Long Island City and New York, N. Y. Cigars. No. 165,275; July 25.
Dickinson & Co., inc., Minneapolis, Minn. Glare and storm shields, windshields, and wind-deflecting wings. No. 164,238; July 25.
Dog World Publishing Co., Chicago, Ill. Monthly publication. No. 161,823; July 25.
Dreifus, Tichner & Eckstein, assignors, by mesne assignments, to Tichner Bros., New York, N. Y. Hosiery. No. 140,430; July 25.
Duffy-Mott Company Inc., New York, N. Y. Ciders and fruit juices. No. 165,065; July 25.
Duniesvy, George W., Cambridge, Mass. Hair tonics. No. 161,038; July 25.
Eli Lilly & Company, The, Indianapolis, Ind. Medicinal preparations for use as an aphrodisiac and metabolic stimulant. No. 161,365; June 25.
Eli Lilly & Company, The, Indianapolis, Ind. Medicinal preparation for use as a sedative and hypnotic. No. 161,367; July 25.
Krianger, N., Blumgart & Co., Inc., New York, N. Y. Cotton textiles in the piece. Nos. 162,538–9; July 25.
Esterbrook Steel Pen Mfg. Co., The, Camden, N. J. Pens and fountain pens. No. 155,741; July 25.
Excelsior Tobacco Co., St. Louis, Mo. Smoking and chewing tobacco. No. 141,000½; July 25.
Falk Tobacco Company Incorporated, New York, N. Y. Cigarettes. Nos. 164,878–9; July 25.
Faultless Rubber Company, The, Ashland, Ohio. Golf balls. No. 163,806; July 25.
Finkelstein, Morris, doing business as Victory Malt Company, Brooklyn, N. Y. Barley malt sirup for beverage purposes. No. 163,683; July 25.
Finkelstein, Morris, doing business as Victory Malt Company, Brooklyn, N. Y. Hop and malt sirup for beverage purposes. No. 163,686; July 25.
Finkelstein, Morris, doing business as Victory Malt Company, Brooklyn, N. Y. Barley-malt sirup for beverage purposes. No. 163,687; July 25.
Fischer, Albert C., doing business as Servicised Products Company, Chicago, Ill. Garters, neckties, collars, hose, etc. No. 130,822; July 25.
Floramol Chemical Co. (See Palmer, Charles E.)
Fold O-Lock Steering Wheel Mfg. Corp., Wichita, Kans. Steering wheels for motor vehicles. No. 163,868; July 25.
Fort Dummer Mills, Brattleboro, Vt. Cotton piece goods. Nos. 164,413–14; July 25.
Frankenthaler & Frankenthaler, New York, N. Y. Hair ribbons. No. 158,675; July 25.
Fraser & Company, New York, N. Y. Human-hair nets. No. 164,898; July 25.
Fulton, David H., & Bro., Baltimore, Md. Laxative tablets. Nos. 161,725–6; July 25.
Furcotte, Lucian F., doing business as Coco-Cola Bottling Co., Lowell, Mass. Nonalcoholic, noncereal, maltless beverage, and sirup for making same. No. 165,467; July 25.
Geiger, Henry W., New York, N. Y. Vocal-music exercises. No. 157,835; July 25.
General Phonograph Corporation, New York, N. Y. Needles for talking machines and phonograph needles. No. 164,105; July 25.
Glomby's, S., Sons Co. Inc., New York, N. Y. Hair nets. No. 164,419; July 25.
Glomby's, S., Sons, Co. inc., New York, N. Y. Hair nets. No. 164,424; July 25.
Goldberg, Eli F., Rochester, N. Y. Razors, shears, and files. No. 146,433; July 25.
Goldstein & Levin, Philadelphia, Pa. Outer skirts. No. 150,105; July 25.
Grant, W. T., Company, New York, N. Y. Stair carpeting and tapestry rugs. No. 160,759; July 25.
Grasselli Chemical Company, The, Cleveland, Ohio. Fumigating materials, fungicides, and insecticides. No. 160,703; July 25.
Hague, A. J., & Co. Inc., New York, N. Y. Hand sewing needles. Nos. 159,263–4; July 25.
Hancock-Smiths, Incorporated, Baltimore, Md. Liquid antiseptic and mouth wash. No. 161,775; July 25.
Hatfield Electric Company, Indianapolis, Ind. Periodical publications. No. 163,397; July 25.
Hasel, R., Cigar Co., Richmond Hill, N. Y. Cigars. No. 163,799; July 25.
Hastings, G. T., Company, The. (See Hastings, George T.)
Hastings, George T., doing business as The G. T. Hastings Company and The Snowite Laboratories, New York, N. Y. Perfume, face powder, talcum, lip sticks, camphor-ice sticks, etc. Nos. 162,000–1; July 25.
Henderson, Thomas A., Merchantville, N. J. Cigars. No. 161,435; July 25.
Herafeld-Phillipson Company, The, doing business as Milwaukee Boston Store, Milwaukee, Wis. Razor strops. No. 126,029; July 25.
Hess, Goldsmith & Co. Inc., New York, N. Y. Silk, satin, and crêpe piece goods. No. 162,406; July 25.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. No. 165,019; July 25.
Holtite Manufacturing Co., Baltimore, Md. Rubber heels for shoes. No. 159,799; July 25.
Hooker Electrochemical Company, Niagara Falls, N. Y. Insecticides. Nos. 161,836–7; July 25.
Hubbuck, Thomas, & Son Limited, London, England. Sulphates, chlorides, and acetates of metals, perfumes, etc. No. 123,579; July 25.
Hup Mfg. Co. Inc., New York, N. Y. Golf-ball markers. No. 163,151; July 25.
Independent Products Co., New York, N. Y. Barley malt. No. 158,927; July 25.
International Toy Company, Limited, Montreal, Quebec, Canada. Velocipedes and gocarts for children. No. 160,018; July 25.
Iskowitz, Charles, New York, N. Y. Hosiery. No. 158,394; July 25.
Jamison, Mrs. W. K., et al., trustees. (See Lecar Carbon Company, assignor.)
Jamison, Walter K., et al., trustees. (See Lecar Carbon Company, assignor.)
Jansen & Pretzfeld, Inc., New York, N. Y. Silk in the piece. No. 164,646; July 25.
Jensen, Julian B., doing business as Pacific Engineering Co., Oakland, Calif. Rotary and centrifugal pumps. No. 144,526; July 25.
Johnson-Randall Co., Traverse City, Mich. Refrigerators and ice boxes. No. 163,400; July 25.
Kain, Thomas D., Chicago, Ill. Chemical exterminators for rats, mice, and vermin. No. 143,095; July 25.
Kantar, Alexander, Pittsburgh, Pa. Antiseptic liquid. No. 160,710; July 25.
Kemp & Beatley, Inc., New York, N. Y. Embroidery yarns. No. 125,959; July 25.
Kenilworth Manufacturing Co. Inc., New York, N. Y. Knickers. No. 156,745; July 25.
Kendall Products Corporation, New York, N. Y. Detergent preparations—viz, soap products. No. 159,659; July 25.
Ketels, John F., doing business as Amber-o-latum Laboratory, Springfield, Oreg. Ointment for colds, croup, etc. No. 161,318; July 25.
King, F. & F., & Company, Inc., Boston, Mass. China clay, and plain and colored bases for dressing, whitening, and filling compounds. No. 162,880; July 25.
Koike, Jitsutaro, doing business as Nippon Dry Goods Co., San Francisco, Calif. Silk, cotton, woolen, and fiber textiles and mixtures thereof. No. 163,338; July 25.
Konikov Chemical Laboratories, The. (See Konikov, William M.)
Konikov, William M., doing business as The Konikov Chemical Laboratories, Boston, Mass. Medicated compound for female ailments. No. 161,133; July 25.
Kranich Bros., New York, N. Y. Binding tapes, elastic webbing, dress belting. No. 160,554; July 25.
Ladd, William M., Lake City, Iowa. Dry-cleaning preparation for cleaning fabric and like goods. No. 153,816; July 25.
Lamb Knit Goods Co., The, Colon, Mich. Sweaters, bathing suits, caps, and gloves. No. 158,480; July 25.
Lay Rite Laboratory, St. Louis, Mo. Face powder and perfumes. No. 161,841; July 25.
Lecar Carbon Company, assignor to W. K. Jamison, S. B. Mathewson, H. F. Marsten, Mrs. W. K. Jamison, and Mrs. S. B. Mathewson, trustees of the Lecar Carbon Company, Springfield, Ohio, a trust estate. Carbonizing compound. No. 161,889; July 25.
Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 163,093; July 25.
Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. Nos. 164,329–30; July 25.
Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. Nos. 164,332–3; July 25.
Levick, Thomas, Chicago, Ill. Monthly magazine. No. 162,023; July 25.
Lewis, A. T., & Son Dry Goods Company, The, Denver, Colo. Leather shoes. No. 161,927; July 25.
Lingner-Werke Aktiengesellschaft, Dresden, Germany. Medicinal preparations for skin diseases, periostitis, infected wounds, etc. No. 162,121; July 25.
Linton & Scott, New York, N. Y. Toilet paper. No. 150,970; July 25.
Liverpool Borax Co., Limited, The, Liverpool, England. Size for use in connection with woolen warps and for finishing textile piece goods. No. 161,135; July 25.
Loës, Franz E., New York, N. Y. Sirup for cough and catarrh. No. 162,120; July 25.

Logan-Johnson, Limited, Boston, Mass. Nonalcoholic, maltless, fruit sirups for making soft drinks. No. 158,189; July 25.
Los Angeles Soap Co., Los Angeles, Calif. Laundry soap. No. 148,745; July 25.
Lynx Knitting Mills. (See Boehm, A.)
Macniven and Cameron Limited, Edinburgh, Scotland. Writing and note paper, envelopes, etc. No. 164,335; July 25.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 164,934; July 25.
Marston, Howard F., et al., trustees. (See Lecar Carbon Company, assignor.)
Martin, Charles F., Fairmont, W. Va. Maltless beverage sold as a soft drink. No. 164,254; July 25.
Marvellum Company, The, Holyoke, Mass. Cover paper. Nos. 164,709–10; July 25.
Matthews, Mrs. S. B., et al., trustees. (See Lecar Carbon Company, assignor.)
Mathewson, Stanley B., et al., trustees. (See Lecar Carbon Company, assignor.)
McDowell, Bert, Co., The, Sacramento, Calif. Groceries and grocery specialties. No. 159,642; July 25.
McInnes-Walker Co., Milwaukee, Wis. Coffee. No. 158,879; July 25.
McLeod & Niess, Buffalo, N. Y. Medicinal ointment for piles, sunburn, cuts, boils, etc. No. 159,324; July 25.
Merck, E., Darmstadt, Germany. Dihydrooxycodeinonchlorhydrate. No. 161,847; July 25.
Merck, E., Darmstadt, Germany. Colloidal silver preparation combined with sodium cholate as protective colloid. No. 161,848; July 25.
Merck, E., Darmstadt, Germany. Methylene-blue silver compound. No. 161,849; July 25.
Merck, E., Darmstadt, Germany. Acetylsalicyloyltheobromine. No. 161,850; July 25.
Merck, E., Darmstadt, Germany. Preparation of barium sulphate used in X-ray diagnosis. No. 161,851; July 25.
Merck, E., Darmstadt, Germany. Suspension of animal charcoal of the highest adsorptive power ready for injections. No. 161,852; July 25.
Meyer, A. C., & Co. (See Trust Estate of Adolph C. Meyer.)
Midland Chemical Laboratories, Inc., Dubuque, Iowa. Liquid, soft, automobile, and surgical soaps, scrubbing compound, metal polish, etc. No. 151,954; July 25.
Middleworth, James O., doing business as Carnahan Manufacturing Company, San Diego, Calif. Oil gauges. No. 151,765; July 25.
Miller-Fatland Novelty Co., Chicago, Ill. Combination inhalers, remedy for catarrh, hay fever, etc. No. 161,931; July 25.
Milwaukee Boston Store. (See Herzfeld-Phillipson Company.)
Misner Manufacturing Co., Detroit, Mich. Toilet specialties. No. 162,032; July 25.
Mix, Julius, doing business as J. Mix & Sons, London, England. Cigarettes. No. 164,283; July 25.
Modern Beverage Company, Chicago, Ill. Nonalcoholic maltless beverages. No. 163,592; July 25.
Mohawk Bottling Company. (See Pittsfield Coco Cola Bottling Corporation.)
Morgan, Sarah M., Belvedere, Calif. Recipes. No. 161,443; July 25.
Morse & Burt Co. Inc., Brooklyn, N. Y. Shoes of leather, fabric, and combinations. No. 161,441; July 25.
Musical Courier Company, Inc., New York, N. Y. Musical magazine published weekly. No. 160,361; July 25.
National Aniline & Chemical Company, Inc., New York, N. Y. Dyes, dyestuffs, and colors. No. 148,510; July 25.
New England Commercial Co., Inc., New York, N. Y. Cotton piece goods. No. 161,506; July 25.
Nichols, James B., Memphis, Tenn. Preparation for treatment of lung trouble. No. 159,280; July 25.
Nippon Dry Goods Co. (See Koike, Jitsutaro.)
Noesting Pin Ticket Company, Incorporated, Mount Vernon, N. Y. Paper clamps and clips, thumb tacks, pin tickets, and ring clips. No. 164,659; July 25.
Odell, R., & Sons Company, Newark, N. J. Liquid preparation for controlling stubborn hair. No. 161,940; July 25.
Oriental Silk Printing Company, Haledon, N. J., and New York, N. Y. Silk, cotton, and silk and cotton goods in the piece. No. 162,438; July 25.
Otterson Auto-Eductor Co., The, Springfield, Ohio. Vehicular apparatus having means adapted to be lowered into sewer catch basin. No. 144,041½; July 25.
Pacific Engineering Co. (See Jensen, Julian B.)
Palmer, Charles E., doing business as Floramol Chemical Co., Baltimore, Md. Antiseptic healing ointment for treatment of sores, cuts, burns, etc. No. 161,793; July 25.
Palmer, Tom A., Akron, Ohio. Friction matches. No. 162,445; July 25.
Peck, J., & Co. (See Black, Carl A.)
Perlmann, Schal & Stern, New York, N. Y. Doilies. No. 163,053; July 25.
Pittsfield Coca Cola Bottling Corporation, also doing business as Mohawk Bottling Company. Nonintoxicating, noncereal maltless beverage and sirups used in preparation of same. No. 165,413; July 25.
Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers. No. 160,776; July 25.
Plaza Music Co., New York, N. Y. Player-piano rolls. No. 164,771; July 25.
Pneumatic Scale Corporation, Limited, Norfolk Downs, Mass. Mechanical packaging machinery. No. 142,357; July 25.
Post, Leo L., Forest Hills, N. Y. Cigarettes. No. 155,446; July 25.
Power Supply Company, Terre Haute, Ind. Electrical apparatus, machines, and supplies. No. 145,646; July 25.
Prym, William Co. Ltd. (See Solow, N., assignor.)
Queen City Bottling Company, The, Cincinnati, Ohio. Nonintoxicating fruit beverage and sirup used in preparation of same. No. 158,333; July 25.
Queen City Printing Ink Company, The, Cincinnati, Ohio. Printing inks. No. 160,427; July 25.
Raelin Products Company. (See Anselin, Homer L.)
Reese, Simon, Sioux City, Iowa. Cigars. No. 163,947; July 25.
Rich, E. C., Inc., New York, N. Y. Gelatin. No. 159,105; July 25.
Rimer, Orrseamies S., doing business as Sweetola Company, Dayton, Ohio. Powder preparation for use as a body deodorant. No. 161,896; July 25.
Ringwalt Works, Inc., New Brunswick, N. J. Felt-base floor coverings. No. 162,582; July 25.
Rip Van Winkle Wall Bed Company, Oakland, Calif. Wall beds. No. 139,429; July 25.
Robert-Morton Company, The, San Francisco, Calif. Orchestral pipe organs. No. 161,704; July 25.
Rogers Brothers, New York, N. Y. Face and talc powders, almond lotion, cold cream, etc. No. 161,453; July 25.
Rogers, Charles E., doing business as Rogers Drug Store, Geary, Okla. Foot powder. No. 150,290; July 25.
Rogers Drug Store. (See Rogers, Charles E.)
Samek & Lobel, New York, N. Y. Ladies' silk undergarments, negligees, and corsets. No. 156,602; July 25.
Sampson, Gertrude I., doing business as Ambercrude Products Co., Philadelphia, Pa. Preparation for the treatment of the hair and scalp. No. 161,946; July 25.
Schering & Glatz, Inc., New York, N. Y. Medicinal preparation recommended as a pain alleviation. No. 161,902; July 25.
Schlichtmann, Philip J., doing business as The Slick Drug Co., Philadelphia, Pa. Preparation used for gargling. No. 161,757; July 25.
Schneider, Battinus & Simon, Chicago, Ill. Hair nets. No. 164,968; July 25.
Schweiboid, Martin and J., Philadelphia, Pa. Radioreceiving apparatus. No. 160,156; July 25.
Scintilla, Solothurn, Switzerland. Physical and meteorological instruments, registering instruments, recording apparatus, etc. No. 136,044; July 25.
Seel, Reidar G., New York, N. Y. Medicinal preparation of a sedative character. No. 161,942; July 25.
Servicised Products Company. (See Fischer, Albert C.)
Shackman, B., & Co., New York, N. Y. Souvenir or favor container. No. 164,127; July 25.
Shaffer, M., Company, The, Philadelphia, Pa. Hair tonic. No. 161,208; July 25.
Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 164,226; July 25.
Sinclair, John, Ltd., Newcastle-on-Tyne, England. Smoking tobacco and cigarettes. No. 162,143; July 25.
Skantze, Henry, & Co., Gottenberg, Sweden. Shoe creams. No. 158,016; July 25.
Slick Drug Co., The. (See Schlichtmann, Philip J.)
Small, L. K., Company, Los Angeles, Calif. Fresh citrus fruits. No. 159,059; July 25.
Smallwood Stone Company, The, Steubenville, Ohio. Pulp stones for wood-pulp-working machines, machinery, and tools, and parts thereof. No. 154,387; July 25.
Smith, Absalom, Eau Claire, Wis. Ointment for eczema, ulcers, itch, sores, ringworm, etc. No. 160,976; July 25.
Smith, Robert W., Salt Lake City, Utah. Combined writing paper and envelope. No. 162,711; July 25.
Snowite Laboratories, The. (See Hastings, George T.)
Societe Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Bleaching compounds, powders, and fluids, chemical products for removing rust stains, dyestuffs, etc. No. 146,087; July 25.
Societé Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Bleaching compounds, powders, and fluids, dyestuffs, etc. No. 146,089; July 25.
Solow, N., New York, N. Y., assignor to William Prym Co. Ltd., Stolberg, Rhineland, Germany. Pins, hooks and eyes, and snap fasteners. No. 154,999; July 25.
Sonora, Inc., New York, N. Y. Talking machines and phonographs. No. 160,779; July 25.
Standard Oil Company, (Incorporated in New Jersey,) Bayonne, N. J. Petrolatum, petrolatum greases and oils. No. 161,279; July 25.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Piano Company, Jersey City, N. J., and New York, N. Y. "Ampico." (For Advertising Purposes for Pianos, Piano Players, and Player Pianos.) No. 6,223; July 25.

Cream of Wheat Co., Minneapolis, Minn. "Cream of Wheat." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,224; July 25.

Cream of Wheat Co., Minneapolis, Minn. "Little Simon." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,225; July 25.

Heins, H. J., Co., Pittsburgh, Pa. "Heins Vinegar Every Drop Awaken Flavor." (For Advertising Purposes for Heins Vinegars.) No. 6,226; July 25.

Holbrook Pie Baking Co. Inc., Albany, N. Y. "The Pie in The Pievelope." (For Advertising Purposes for Pies.) Nos. 6,227–8; July 25.

Palmolive Company, The, Milwaukee, Wis. "What is the matter with your hair?" (For Advertising Purposes for Shampoo.) No. 6,229; July 25.

Sealpax Co., The, Baltimore, Md. "What is she saying?" (For Advertising Purposes for Sealpax Athletic Underwear.) No. 6,230; July 25.

Somerville Brush Company, Somerville, Mass. "No Home Complete Without a Sum-Vil Dry Mop." (For Advertising Purposes for Mops.) No. 6,231; July 25.

Stowell, J. C., Company, The, Ithaca, N. Y. "University." (For Advertising Purposes for Cigars.) No. 6,232; July 25.

Sweater & Knitted Textile Publicity Bureau, Inc., Baltimore, Md. "Knitted OuteRwear deserves the preference." (For Advertising Purposes for Knitted Outerwear.) No. 6,233; July 25.

Tompkins, Wallace W., Buffalo, N. Y. "Hypex." (For Advertising Purposes for Sleeve Valves for Internal-Combustion Engines.) No. 6,234; July 25.

Western Fruits Products Co., Dubuque, Iowa. "Vin-Rose." (For Advertising Purposes for a Fruit Beverage.) No. 6,235; July 25.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aarons & Homes, New York, N. Y. Women's, girls', and misses' dresses, suits, coats, etc. No. 157,874; July 25.

Aboussleman, Joseph M., doing business as Youth-Ami Laboratories, New York, N. Y. Toilet preparations. No. 161,344; July 25.

Adams, Paul M., Co., The, Baltimore, Md. Writing paper, envelopes, paper napkins and blotters, wax paper, etc. No. 164,688; July 25.

Alchemic Gold Company, Incorporated, New York, N. Y. Printing ink, ink pigments, and vehicles used with pigments for compounding inks. No. 162,095; July 25.

Ambercrude Products Co. (See Sampson, Gertrude I.)

Amber-o-latum Laboratory. (See Ketels, John F.)

American Company for International Commerce, New York, N. Y. Cotton sheeting. No. 161,102; July 25.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Baggage manufactured from jute fiber. No. 139,493; July 25.

Angelus Powder Puff Co., The. (See Calisher, Joseph H.)

Arend, A., Drug Co., Chicago, Ill. Medicinal preparation for treatment of nerves, stomach, liver, etc. No. 149,532; July 25.

Argo Fabrics Corporation, The, Philadelphia, Pa. Knitted fabrics. No. 162,094; July 25.

Ark, Barnett, North Adams, Mass. Coats, overcoats, trousers, and knickerbockers. No. 156,731; July 25.

Armstrong Cork Company, Pittsburgh and Lancaster, Pa. Rubber heels. No. 160,040; July 25.

Ashmun, F. E., Company, Providence, R. I. Finger rings. No. 163,078; July 25.

Asselin, Homer L., doing business as Raelin Products Company, San Francisco, Calif. Liver tablets. No. 160,842; July 25.

Atlas Portland Cement Company, The, North Hampton, Pa., and New York, N. Y. Stucco. No. 163,075; July 25.

Auld Acquaintance Co., The, Grand Rapids, Mich. Toilet and pharmaceutical preparations. No. 159,334; July 25.

Banner Shirt Co. Inc., New York, N. Y. Dress, negligee, soft, and sport shirts. No. 145,054; July 25.

Barry, T. D., Company, Brockton, Mass. Shoes. No. 161,023; July 25.

Beach Chemical Company, St. Louis, Mo. Medicinal preparation for relief of colds, la grippe, fever, etc. No. 161,956; July 25.

Bear Hops, Malt & Extract Co., Brooklyn, N. Y. Malt sirup. No. 161,717; July 25.

Benaderet, Samuel, San Francisco, Calif. Egyptian cigarettes. No. 164,220; July 25.

Beneke & Kropf Manufacturing Company, Chicago, Ill. Carburetors, thermostatic controls for internal-combustion engines, etc. No. 151,076; July 25.

Bennett & Wedeen Inc., New York, N. Y. Hosiery, underwear, knit goods, gloves, shirts, shoes, etc. No. 155,951; July 25.

Berbecker, Julius, & Sons, Inc., New York, N. Y. Hand sewing needles. No. 161,166; July 25.

Berger, L. D., doing business as L. D. Berger Company, Philadelphia, Pa. Eaves-trough hangers, conductor hooks and fasteners. No. 157,596; July 25.

Bernstein, De Frece, New York, N. Y. Watchcases and watches. No. 159,998; July 25.

Bianchini, Férier, Lyon, France. Piece goods of silk, cotton, wool, and hairs. Nos. 165,005–7; July 25.

Biozone Syndicate Limited, The, London, England. Salts, medicinal bath salts, nasal douche, gargle, and cattle salts. No. 154,474; July 25.

Black, Carl A., doing business as J. Peck & Co., Cleveland, Ohio. Writing ink and ink powder. No. 156,439; July 25.

Blake, McFall Company, Portland, Oreg. Wrapping paper. No. 161,295; July 25.

Bliss, Elmer J., Boston, Mass. Boots and shoes. No. 145,545; July 25.

Blumenthal, Sidney, & Co. Inc., assignor to Central Union Trust Company of New York, trustee, New York, N. Y. Pile fabrics in the piece. No. 138,036; July 25.

Boehm, Alfred, trading as Lynx Knitting Mills, New York, N. Y. Hosiery, knitted, and woven underwear, and undersuits. No. 157,208; July 25.

Booth, Wilfrid I., Elmira, N. Y. Candy. No. 159,402; July 25.

Brown & Bigelow, St. Paul, Minn. Pencils. Nos. 164,486–7; July 25.

Buck Mix Productions, Inc., New York, N. Y. Motion-picture films. No. 160,655; July 25.

Burnham, E., Inc., Chicago, Ill. Brilliantine. No. 160,473; July 25.

Burton Bros. & Co., New York, N. Y. Cotton shirting in the piece. No. 160,631; July 25.

California Peanut Company, Oakland, Calif. Salted peanuts. No. 159,010; July 25.

Calisher, Joseph H., trading as The Angelus Powder Puff Co., New York, N. Y. Powder puffs of all descriptions. No. 161,974; July 25.

Campbell, John, & Co., New York, N. Y. Color-stripping and dye-removing compound. No. 161,110; July 25.

Cameo Record Corporation, New York, N. Y. Phonograph records. No. 159,143; July 25.

Carlisle, Bert, Santa Ana, Calif. Toy flying machines. No. 150,729; July 25.

Carnahan Manufacturing Company. (See Middleworth, James O.)

Carpenter-Morton Company, Boston, Mass. Bleaching compounds. No. 161,033; July 25.

Carter, J. W., & Co., Nashville, Tenn. Boots and shoes made wholly or in part of leather. No. 160,232; July 25.

Carter, J. W., & Co., Nashville, Tenn. Boots and shoes made wholly or in part of leather. No. 160,234; July 25.

Carter, Thomas, & Sons, Inc., New York, N. Y. Handkerchiefs. No. 162,916; July 25.

Central Union Trust Company of New York, trustee. (See Blumenthal, Sidney, & Co., assignors.)

Champion Tool Company, Meadville, Pa. Farriers' tools. No. 152,415; July 25.

Champion Tool Company, Meadville, Pa. Farriers' and cobblers' tools. No. 152,416; July 25.

Champion Tool Company, Meadville, Pa. Farriers' tools. No. 152,418; July 25.

Chemical Products Company, Kent, Wash. Chemical products to be used for the destruction of noxious weeds. No. 150,591; July 25.

Coco-Cola Bottling Co. (See Purcotte, Lucien F.)

Collins, Harry, Inc., New York, N. Y. Ladies' dresses, suits, wraps, and fur pieces. No. 157,985; July 25.

Comer, Fetterly & Co. inc., Union Hill, N. J., and New York, N. Y. Pharmaceutical preparations for faulty digestion. No. 161,719; July 25.

Sylva Knitting Company, Hamburg, Pa. Knitted underwear for women. No. 157,215; July 25.

Tauber, Lipton & Co., New York, N. Y. Boys' and children's play suits. No. 157,216; July 25.

Theonett & Co., Inc., Chicago, Ill. Maltless, nonalcoholic beverage and sirup for making the same. No. 157,217; July 25.

Thermot Coal & Coke Co., Binghamton, N. Y. Coal and coke. No. 157,218; July 25.

Thompson, Ernest, et al., executors. (See Thompson, Joseph.)

Thompson, Joseph, deceased; T. S. Woodcock, W. Thompson, and E. Thompson, executors, Sheffield, England. Certain cutting tools for working wood and metals. No. 157,219; July 25.

Thompson, William, et al., executors. (See Thompson, Joseph.)

Thornycroft, John I., & Co. Limited, Westminster, England. Commercial motor vehicles. No. 157,220; July 25.

Thurm, Browne & Cohen, Inc., New York, N. Y. Hair nets. No. 157,221; July 25.

Tiedemann, Theo., & Sons, Inc., New York, N. Y. Garments for burial purposes. No. 157,222; July 25.

Traylor Engineering & Manufacturing Company, Allentown, Pa. Motor trucks and trailers. No. 157,223; July 25.

Treadwell Engineering Company, Easton, Pa. Certain machinery. No. 157,292; July 25.

Trexler Company, The, Philadelphia, Pa. Tire carriers. No. 157,224; July 25.

Tri-Plex Shoe Company, Philadelphia, Pa. Boots and shoes made of leather and fabric. No. 157,225; July 25.

Tubstuff Company Incorporated, Seattle, Wash. Playfrocks for little girls. No. 157,226; July 25.

Tuscan Tire & Rubber Company, The, Carrollton, Ohio. Rubber tires for automobiles. No. 157,227; July 25.

Twistout Thumb Tack Company, Germantown, Pa. Thumb tacks. No. 157,228; July 25.

U. S. Yarn Co., Inc., Brooklyn, N. Y. Mercerized and cotton yarns and artificial and thrown silk. No. 157,233; July 25.

Union Tool Company, Torrance, Calif. Gas engines and oil-well tools and equipment. No. 157,229; July 25.

United Mills Company, Incorporated, Louisville, Ky. Hosiery. No. 157,230; July 25.

United States Overall Manufacturing Company, The, Cincinnati, Ohio. Overalls, coveralls, work shirts, etc. No. 157,231; July 25.

United States Corporation, St. Louis, Mo. Sheet-rubber patches. No. 157,232; July 25.

Vaughan, George A., & Co., Putnam, Conn. Mechanically-operated boat lowering and hoisting gear. No. 157,234; July 25.

Vernor, James, Company, Detroit, Mich. Ginger ale and ginger-ale extract. No. 157,293; July 25.

Vick Chemical Company, Greensboro, N. C. Medicinal salve for croup, colds, pneumonia, catarrh, etc. No. 157,235; July 25.

Virden Packing Company, San Francisco, Calif. Smoked meats, sausages, and frankfurters, lard, salad oil, etc. No. 157,236; July 25.

Voorhees, Joseph P., New York, N. Y. Boys' ribbed hose. No. 157,237; July 25.

Waddell, William W., Chicago, Ill. Soap. No. 157,294; July 25.

Walker-Matteson Company, Joliet, Ill. Fruit-jar rings. No. 157,238; July 25.

Walker-Matteson Company, Joliet, Ill. Cigars. No. 157,239; July 25.

Walter Baker & Company, Ltd., Boston, Mass. Ten-pound cakes of sweet-chocolate coatings. No. 156,994; July 25.

Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. No. 157,295; July 25.

Webb, Arthur M., New York, N. Y. Women's and children's knitted underwear, hosiery, sweaters, etc. No. 157,240; July 25.

Weimann, Jens, Odense, Denmark. Coats, trousers, skirts, hats, and caps, made from leather or leather products. No. 157,241; July 25.

Weimann, Jens, Odense, Denmark. Certain articles of clothing and protective apparel. No. 157,242; July 25.

Wensel, H., Tent & Duck Company, St. Louis, Mo. Tarpaulin, wagon covers, and tents. No. 157,243; July 25.

Westfield Manufacturing Company, Westfield, Mass. Bicycles and parts thereof. No. 157,244; July 25.

White, M. J., Lees Summit, Mo. Metal solder and aluminum solder. No. 157,296; July 25.

Whiting Paper Company, Holyoke, Mass. Writing papers and mailing envelopes. No. 157,245; July 25.

Wichert & Gardiner, Brooklyn, N. Y. Shoes, slippers, boots, etc. No. 157,246; July 25.

Williams, A. G., Home Made Candy Co. Inc., New Orleans, La. Candies. No. 157,247; July 25.

Wilson Bohannan, Inc., Brooklyn, N. Y. Locks. No. 157,254; July 25.

Wilson, Robert L., Tyler, Tex. Washing powder. No. 157,297; July 25.

Wincroft Stove Works, Middletown, Pa. Gas and coal stoves. No. 157,248; July 25.

Wing, Russell T., St. Cloud, Minn. Headlight lenses. No. 157,249; July 25.

Woodcock, Timothy S., et al., executors. (See Thompson, Joseph.)

Worthington Pump and Machinery Corporation, New York, N. Y. Pumping machinery, pumps, vacuum pumps, and air and gas compressors. No. 157,250; July 25.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Barber, F. P., and R. K. Kirby, Brattleboro, Vt. "Stratton's Liniments." (For Bottles Containing Liniment.) No. 24,743; July 25.

Billings Player Roll Company, Milwaukee, Wis. "Staffnotes." (For Boxes Containing Player Rolls for Piano Players.) No. 24,744; July 25.

Callahan, Joseph A., Lynn, Mass. "KB Handy Shoe Shiner Cloth." (For Paper-Box Container and on Label Affixed to Cloth.) No. 24,745; July 25.

Callaway, George McDaniel, San Antonio, Tex. "Cre-Cal-Co." (For Containers of a Solution Decausticated Creosote.) No. 24,746; July 25.

De Giorgio, Rosario, Los Angeles, Calif. "Tastee." (For Cantaloupes.) No. 24,747; July 25.

Hallberg, Fred, Chicago, Ill. "Bungalow Brand." (For Salad Dressing.) No. 24,748; July 25.

Hartmann, Jane, Bound Brook, N. J. "Home Made Orange Marmalade." (For Orange Marmalade.) No. 24,749; July 25.

Heller, B., & Company, Chicago, Ill. "Zansibar-Carbon Crystal Laundry Blue." (For Containers Holding Zansibar Carbon Crystal Laundry Blue, a Blue Used for Laundry Purposes.) No. 24,750; July 25.

Heller, B., & Company, Chicago, Ill. "Zansibar-Carbon Non-Sour Blue." For Containers Holding Zansibar-Carbon Non-Sour Blue, a Blue Used for Laundry Purposes.) No. 24,751; July 25.

Heller, B., & Company, Chicago, Ill. "Zansibar-Carbon Combination Laundry Blue." (For Containers Holding Zansibar-Carbon Combination Laundry Blue, a Blue Used for Laundry Purposes.) No. 24,752; July 25.

Kirby, R. K. (See Barber, F. P., and Kirby.)

Knight, Clarence A, Medford, Oreg. "Rogue River Valley Fruit Crater Lake Brand." (For Packages Containing Fresh Deciduous Fruits.) No. 24,753; July 25.

Laird Manufacturing Co. Inc., The, Richmond, Va. "Richmond Maid." (For Baking Powder.) No. 24,754; July 25.

Mead Johnson & Co. Evansville, Ind. "Dexter Malto No. 3." (For Infants' Food.) No. 24,755; July 25.

Northrup, King & Co., Minneapolis, Minn. "Queen." (For Cartons of Japanese Hull-less Popcorn.) No. 24,756; July 25.

North American Honey Distributors. (See Van Schuets, Samuel F.)

Old Style Malt Extract Co., Chicago, Ill. "Old Style Purest and Best Malt Extract." (For Malt Extracts.) No. 24,757; July 25.

Pacific Coast Biscuit Company, Seattle, Wash. "Long Branch." (For Saltine Flakes.) No. 24,758; July 25.

Pastene, P., & Co. Inc., Boston, Mass. "La Napoletana." (For Peeled Tomatoes.) No. 24,759; July 25.

Phospho Food Co. Inc., Los Angeles, Calif. "Cream of Bran." (For Cereals.) No. 24,760; July 25.

Phospho Food Co. Inc., Los Angeles, Calif. "Phospho." (For Nut-Brown Meal.) No. 24,761; July 25.

Seltzer, Theodore, West Hoboken, N. J. "Ben-Gay." (For Medicinal Preparation for Rheumatism, Gout, Neuralgia.) No. 24,762; July 25.

Shane Bros. & Wilson Co., Minneapolis, Minn. "King Midas." (For Toasted Wheat Cereal.) No. 24,763; July 25.

Spokane Valley Growers Union, Opportunity, Wash. "Pineland." (For Apples.) No. 24,764; July 25.

Stern, Joseph & Sons, Inc., New York, N. Y. "Hudson Refined Pure Lard." (For Pure Lard.) No. 24,765; July 25.

Von Schuets, Samuel F., doing business as North American Honey Distributors, Council Bluffs, Iowa. "Pure Honey." (For Honey.) No. 24,766; July 25.

Western New York Fruit Growers' Co-Operative Packing Ass'n, Inc., Rochester, N. Y. "Cataract Brand." (For Fresh Fruits.) No. 24,767; July 25.

Widlar Co., The, Cleveland, Ohio. "Widlar's Genuine." (For Mocha and Java Coffee.) No. 24,768; July 25.

Withers Brothers, Los Angeles, Calif. "Sombrero." (For Cantaloupes.) No. 24,769; July 25.

Fairview Grape Growers Ass'n, Sanger, Calif. Fresh grapes. No. 157,060; July 25.
Fatt, Joseph J., New York, N. Y. Men's outer garments. No. 157,061; July 25.
Fierheller, George, Toronto, Ontario, Canada. Combined sponge and washrag. No. 157,062; July 25.
Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber tires, particularly the outer casings of automobile tires. No. 157,063; July 25.
Flock Manufacturing Company, The, Philadelphia, Pa. Thread and yarn. No. 157,064; July 25.
Forney & Co., inc., New York, N. Y. Diapers and diaper material. No. 157,065; July 25.
Fraim, E. T., Lock Company, The, Lancaster, Pa. Locks, latches, and padlocks. Nos. 157,066–7; July 25.
Fredriksen, Hardy M., Tacoma, assignor to Spark-O Metals Company, Seattle, Wash. Metal terminals or electrodes for spark plugs. No. 157,068; July 25.
Freed & Company, Chicago, Ill. Hats and caps for men and boys. No. 157,069; July 25.
Frick Company, Waynesboro, Pa. Ice-making and refrigerating machinery. No. 157,070; July 25.
Friedman Bros. & Son Neckwear Company Inc., New York, N. Y. Ties, cravats, and four-in-hand ties. No. 157,071; July 25.
Friedman, Max J., New York, N. Y. Men's nainsook athletic underwear. No. 157,072; July 25.
Galloway, Wesley J., Sheffield, Ala. Liquid preparation for the treatment of whooping cough, croup, hoarseness, and bronchitis. No. 157,258; July 25.
Gibson, Geo. R., Co., New York, N. Y. Hairbrushes and toothbrushes. No. 157,073; July 25.
Ginsberg, I., & Bros., New York, N. Y. Women's cotton aprons and dresses. No. 157,074; July 25.
Ginsberg, I., & Bros., New York, N. Y. Women's, misses, and children's dresses, skirts, and waists made of cotton fabric. No. 157,075; July 25.
Goldberg, Isaac, New York, N. Y. Fabric slippers. No. 157,076; July 25.
Goodband, Smith & John, Wilmington, Del., and New York, N. Y. Leather fabric, etc., gloves. No. 157,077; July 25.
Gordon, Hyman, New York, N. Y. Boots, shoes, leggings, spats, rubbers, gaiters, etc. No. 157,078; July 25.
Gramercy Chocolate Company, Inc., New York, N. Y. Candy. No. 157,079; July 25.
Grant Leather Corporation, Kingsport, Tenn. Leather belting. No. 157,080; July 25.
Grant, W. T., Co., New York, N. Y. Saws. No. 157,259; July 25.
Grasselli Chemical Company, The, Cleveland, Ohio. Fancy yarns and acetylcellulose thread. No. 157,081; July 25.
Gray-Hathaway Wood Heel Company, Lynn, Mass. Wood heels. No. 157,082; July 25.
Gray Motor Corporation, Detroit, Mich. Automobiles and their structural parts. No. 157,083; July 25.
Greenbaum, Weil & Michels, San Francisco, Calif. Men's dress, work, and negligee shirts. No. 157,084; July 25.
Green Top Company, The, New Iberia, La. Condiments and spices. No. 157,085; July 25.
Grewen Fabric Company, Inc., Johnston, N. Y. Cloth gloves. No. 157,086; July 25.
Grimberg, John, New York, N. Y. Garment hangers. No. 157,087; July 25.
Grinnell, Maurice W., New York, N. Y. Textile fabric coated with waterproof material and having an ornamental finish. No. 157,088; July 25.
Grover's, J. J., Sons Company, Lynn, Mass. Boots, shoes, slippers. No. 157,089; July 25.
Guarantee Liquid Measure Company, Rochester, Pa. Measuring pumps for gasoline and oil. No. 157,260; July 25.
H. & S. Manufacturing Company, Los Angeles, Calif. Trousers. No. 157,166; July 25.
H-2-O Still Company, Baltimore, Md. Distilled water, nonalcoholic beverages, and syrups for making same. No. 157,090; July 25.
Hadfields Limited, Sheffield, England. Fire fenders, furnace bars. No. 157,091; July 25.
Hahn, Wm., & Co., Washington, D. C. Men's, women's, and children's shoes of leather and fabric. No. 157,093; July 25.
Hall's, J. S., Sons, Knoxville, Tenn. Leather shoes. No. 157,092; July 25.
Hardy, F. A., & Company, Chicago, Ill. Finger-piece eye-glass mountings. No. 157,094; July 25.
Hargey, George L., Pottsville, Pa. Plumbers' tables and vise supports. No. 157,095; July 25.
Hatchet, Mary, & Jenkins, Thomasville, Ga. Preparation used in the treatment of indigestion. No. 157,261; July 25.
Hauser & Weil, New York, N. Y. Belts for men, women, and children. No. 157,262; July 25.
Hirsfeld-Phillipson Company, The, Milwaukee, Wis. Men's and boys' dress and negligee shirts. No. 157,096; July 25.
Hess and Hopkins Leather Company, The, Rockford, Ill. Packings, gaskets, and washers of leather. No. 157,263; July 25.
Higginbotham-Bailey-Logan Company, Dallas, Tex., and New York, N. Y. Work clothes in the nature of overalls, pants, and shirts. No. 157,097; July 25.
Hill, Samuel J., Atlanta, Ga. Bedroom slippers made of fabric with soft-leather bottoms. No. 157,098; July 25.
Hinchey Manufacturing Company of Indiana, Washington, Ind. Trousers, skirt, coat, gown, and suit hangers. No. 157,099; July 25.
Hitt Fireworks Company, Inc., Seattle, Wash. Firecrackers. No. 157,100; July 25.
Hochschild, Kohn and Co. Inc., Baltimore, Md. Vacuum cleaning machines. No. 157,264; July 25.
Hoffman, F., & Sons, Inc., Newark, N. J. Beverages sold as soft drinks and syrups for making same. No. 157,265; July 25.
Hoffman-Hayman Coffee Co., San Antonio, Tex. Coffee and tea. No. 157,101; July 25.
Hollins, William, & Company Limited, London and Mansfield, England. Cloths of wool made by the yard or in the piece. No. 157,102; July 25.
Hood Rubber Company, Watertown, Mass. Rubber heels. No. 157,103; July 25.
Howard and Jones, Inc., New York, N. Y. Cloth in the piece of wool, cotton, or mixtures of same. No. 157,104; July 25.
Hoyt, F., & Co., Philadelphia, Pa. Cologne water. No. 157,266; July 25.
Hudson Tire Co. Inc., Newark, N. J. Rubber tires. No. 157,106; July 25.
Huyck, F. C., & Sons, Albany, N. Y. Woolen and canvas camping or sleeping bags. Nos. 157,107–8; July 25.
Ideal Shoe Manufacturing Company, Milwaukee, Wis. Shoes. No. 157,109; July 25.
Independent Stove Company, Owosso, Mich. Stoves, ranges, furnaces, and combination coal and gas stoves. No. 157,110; July 25.
India Company, The, Newark, N. J. Chewing gum. No. 157,111; July 25.
Interlock Hardware Company, Inc., The, New Haven, Conn. Automobile luggage and tire carriers. No. 157,112; July 25.
International Shoe Co., St. Louis, Mo. Shoes for men, women, and children, made of leather, rubber, fabric, or the combination thereof. No. 157,113; July 25.
Irokese Trading Corporation, New York, N. Y. Boxed sets of changeable-feature games. No. 157,267; July 25.
Irokee Trading Corporation, New York, N. Y. Packaged set of changeable-feature folding cards. No. 157,268; July 25.
Johnson, Walter L., Endicott, N. Y. Glass milk bottles. No. 157,114; July 25.
Jolley, L. G., & Son, Denver, Colo. Preparation for treating rheumatism and purifying the blood. No. 157,268; July 25.
Kaplan, Simon, New York, N. Y. Hosiery. No. 157,116; July 25.
Keane, Horace, Aeroplanes, Inc., New York, N. Y. Certain aeroplanes and parts thereof. No. 157,117; July 25.
Keane, Horace, Aeroplanes, Inc., New York, N. Y. Tractor and carburetors. No. 157,118; July 25.
Keesey Hosiery Company, Mount Holly, N. J. Hosiery of all kinds. No. 157,119; July 25.
Kleimert, I. B., Rubber Company, New York, N. Y. Women's undergarments and sanitary pantalettes. No. 157,120; July 25.
Knox Motors Company, Springfield, Mass. Internal-combustion engines and parts thereof and certain accessories therefor. No. 157,121; July 25.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Certain cars and parts thereof. No. 157,122; July 25.
Krieg, J. K., Company, New York, N. Y. Combination leather and rubber heels for shoes. No. 157,271; July 25.
Krippendorf-Dittmann Co., The, Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 157,123; July 25.
Kuh Brothers, San Francisco, Calif. Children's garments consisting of girls' rompers, play garments, and dresses. No. 157,124; July 25.
Lapsley & Bro. Company, Baltimore, Md. Window shades. No. 157,272; July 25.
Lawrence, R. S., London, England. Cut leather soles. No. 157,125; July 25.
Leich, Charles, & Co., Evansville, Ind. Paper tablets, papeteries, envelopes, and boxes of sheet paper. No. 157,126; July 25.
Levin, Nathan, Pittsburgh, Pa. Certain articles of clothing. No. 157,127; July 25.
Lewis Manufacturing Co., Walpole, Mass. Certain piece goods. No. 157,128; July 25.
Lichtig, B., & Son, Inc., Oakland, Calif. Rubber tires. No. 157,129; July 25.
Lindsay Light Company, Chicago, Ill. Gas mantles. Nos. 157,130–1; July 25.
Littlefield, W. H., and Company, Inc., Buffalo, N. Y. Women's and children's hats. Nos. 157,132–5; July 25.
Lochmaa, John J., Carlstadt, N. J. Safety-razor-blade-stropping holders. No. 157,136; July 25.
Loewe, D. E., & Co., Danbury, Conn. Men's and children's hats and caps. No. 157,137; July 25.
Lowenthal, David H., & Co., New York, N. Y. Silk dresses. No. 157,138; July 25.
McClave-Brooks Co., Scranton, Pa. Grates and stokers. No. 157,139; July 25.
McConnell, Edward, & Co., New York, N. Y. Waterproofed textile fabrics. No. 157,140; July 25.
McIntyre Bros., Cranford, N. J. Boats. No. 157,141; July 25.
McVaugh, Wm. T., Company, Inc., New York, N. Y. Men's, ladies', children's, and infants' hosiery. No. 157,142; July 25.

McVoy, John M., Springhill, Ala. Razor-strop dressing. No. 157,143; July 25.
Manhattan Rubber Mfg. Co., The, Passaic, N. J. Rubber belting and hose. No. 157,144; July 25.
Marvel Shock Absorber Corporation, The, Cleveland, Ohio. Shock absorbers for automobiles. No. 157,145; July 25.
Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 157,146; July 25.
Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 157,147; July 25.
Mater-Mack Co. Inc., The, Rochester, N. Y. Shoes and moccasins made of leather and of fabric for babies. No. 157,148; July 25.
Meccano Limited, Liverpool, England. Electrical toys. No. 157,149; July 25.
Medico Distributing Co. Inc., New York, N. Y. General medicinal tonic. No. 157,273; July 25.
Meyer Cloak & Dress Co. Inc., Baltimore, Md. Ladies' dresses. No. 157,150; July 25.
Mill-Rich Service, New York, N. Y. Men's wear and haberdashery, shirts, pyjamas, etc. No. 157,151; July 25.
Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, linen goods and mixtures in the piece. No. 157,153; July 25.
Mills & Gibb Corporation, New York, N. Y. Fabric gloves. No. 157,152; July 25.
Montgomery, J. R., Company, The, Windsor Locks, Conn. Yarns, warps, flosses, threads, and tinsel threads. No. 157,115; July 25.
Morrison, Laurence W., Milwaukee, Wis. Leather slippers and shoes. No. 157,154; July 25.
Moulton, Walter E., Geneva, Ohio. Lens. No. 157,155; July 25.
Muller-Houseman Company, The, Grand Rapids, Mich. Vanilla flavoring compounds. No. 157,156; July 25.
Munter, Charles, New York, N. Y. Certain articles of clothing. No. 157,157; July 25.
Myers Dry Goods Co., Morristown, Tenn. Men's, women's, and children's knitted or textile underwear, sweaters, neckties, hats, etc. No. 157,158; July 25.
Nathan, Morphy & Co., Inc., Lewiston, Me. Shoes. No. 157,159; July 25.
National Billiard Chalk Co., Chicago, Ill. Billiard chalks. No. 157,274; July 25.
Nelson, N. O., Manufacturing Company, St. Louis, Mo. Water-closet seats. No. 157,275; July 25.
Newark Knitting Works. (See Seiss, Otto.)
North Bros. & Co., Baltimore, Md. Men's and boys' dress and negligee shirts. No. 157,160; July 25.
Northway Motors Corporation, Natick, Mass. Automobiles and motor-trucks. No. 157,161; July 25.
Nova Heel Manufacturing Co., Berkeley, Calif. Heels of rubber and leather in combination. No. 157,162; July 25.
Oberman, D., Mfg. Co., Jefferson City, Mo. Trousers. No. 157,163; July 25.
Ohio Salt Company, The, Wadsworth, Ohio. Salt. No. 157,164; July 25.
Oleicola Tarragona, S. A., Tarragona, Spain. Olive oil. No. 157,165; July 25.
Oliver Knitting Company, Philadelphia, Pa. Bathing suits. No. 157,166; July 25.
Oliver Knitting Company, Philadelphia, Pa. Hosiery. No. 157,167; July 25.
Orange-Smash Co., Birmingham, Ala. Nonalcoholic, maltless, carbonated beverage sold as soft drink and syrup for same. No. 157,276; July 25.
Ovington Bros. Company, New York, N. Y. Table knives, forks, and spoons, of base metal, scissors, etc. No. 157,168; July 25.
Ovington Bros. Company, New York, N. Y. Chinaware, earthenware, porcelain. No. 157,169; July 25.
Pangburn Company Inc., Fort Worth, Tex. Candies and ice cream. No. 157,170; July 25.
Pasquier, Michel, New York, N. Y. Certain toilet preparations. No. 157,277; July 25.
Pass, Wendel, Export, Pa. Combination awl tools for shoemakers and leather working. No. 157,278; July 25.
Perfection Piston Ring Company, The, Ravenna, Ohio. Piston rings. No. 157,171; July 25.
Perry, J. C., & Company, Indianapolis, Ind. Canned fruits, vegetables, and fish, vinegar. No. 157,172; July 25.
Philip Carey Manufacturing Co., The, Lockland, Ohio. Certain construction material. No. 157,173; July 25.
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Internal-combustion engines and parts thereof. No. 157,174; July 25.
Pierce, Percy, Philadelphia, Pa. Toy aeroplane. No. 157,175; July 25.
Plaut-Butler Company, The, Cincinnati, Ohio. Boots, shoes, and slippers. No. 157,176; July 25.
Plapt, Thomas G., Company, Boston, Mass. Boots, shoes, slippers. Nos. 157,177–8; July 25.
Post, Abram H., Chicago, Ill. Rebuilt typewriters, typewriter repair parts, etc. No. 157,179; July 25.
Quaker Hat Company, New York, N. Y. Ladies' hats. No. 157,180; July 25.
R. K. L. Company, Grand Rapids, Mich. Leather shoes and leather shoe soles. No. 157,180; July 25.
Railway Lock-Spike Co., Atlanta, Ga. Railway spikes. No. 157,181; July 25.
Raub Bros. & Co., Pittsburgh, Pa. Men's dress, negligee, and work shirts. No. 157,182; July 25.
Raybestos Company, The, Bridgeport, Conn. Brake lining. No. 157,183; July 25.
Raydeo Belt Co., Pleasant Ridge, Ohio. Automobile textile fan belts. No. 157,184; July 25.
Reliance Die and Stamping Company, Chicago, Ill. Punch presses. No. 157,279; July 25.
Reynier & Cie., assignor to Etablissements Reynier, Grenoble, France. Skin gloves. No. 157,186; July 25.
Rice, A. H., Company, Pittsfield, Mass. Threads and yarns of silk and artificial silk. No. 157,187; July 25.
Ridenour-Baker Grocery Company, Kansas City, Mo. Coffee. No. 157,188; July 25.
Robbins, Charles H. D., Co. Inc., New York, N. Y. Women's dresses. No. 157,190; July 25.
Robins, May, Fort Smith, Ark. Millinery and ladies' ready-to-wear garments. No. 157,191; July 25.
Robinson, Lorena W., Dallas, Tex. Truck bodies. No. 157,192; July 25.
Rombro Brothers, Baltimore, Md. Work shirts. No. 157,193; July 25.
Rothschild & Sons, Kansas City, Mo. Combination sport shirt and drawers. No. 157,194; July 25.
Royle Craven Company, Philadelphia, Pa. Bed sheets, pillowcases, and bolster cases. No. 157,036; July 25.
Rubberhide Company, Boston, Mass. Boots and shoes of a combination of leather, rubber, and fabric. No. 157,195; July 25.
Runyan, Arthur L., Omaha, Neb., assignor to The Anchor Grip-Heel Company, Willoughby, Ohio. Resilient heels for footwear. No. 157,196; July 25.
Sachs Shoe Manufacturing Company, The, Cincinnati, Ohio. Shoes. No. 157,197; July 25.
Saks & Company, New York, N. Y. Women's hats. No. 157,198; July 25.
Samuels, M., & Co., Baltimore, Md. Leather, rubber, and fibrous boots, shoes, and slippers. No. 157,280; July 25.
Sanitary Products Corporation of America, Philadelphia, Pa. Paper luncheon sets. No. 157,199; July 25.
Sarasqueta, Victor, Eibar, Spain. Hunting guns. No. 157,281; July 25.
Schreiber, Laura B., et al., trustees. (See Binder, R. C. R., and Schreeber.)
Schriver, O. P., Company, The, Cincinnati, Ohio. Lifting jacks and lifting-jack bases. No. 157,200; July 25.
Scranton Glass Instrument Company, Inc., Scranton, Pa. Hydrometer syringes. No. 157,282; July 25.
Sears, Roebuck & Co., Chicago, Ill. Women's blouses and waists. No. 157,201; July 25.
Seiss, Otto, trading as Newark Knitting Works, Newark, N. J. Wool, Shetland floss, worsted, mohair, alpaca, etc. Nos. 157,202–3; July 25.
Seneca Glove & Mitten Manufacturing Company, The, Tiffin, Ohio. Cotton gloves and mittens. No. 157,204; July 25.
Siebler Clothes Company, The, Cincinnati, Ohio. Men's, young men's, and boys' suits, coats, trousers, knickerbockers, overcoats, etc. No. 157,205; July 25.
Sigmund Eisner Company, Red Bank, N. J. Men's and boys' outer wearing negligee and work shirts. No. 157,048; July 25.
Simons Manufacturing Company, Chicago, Ill. Lubricant for brake bands and the like. No. 157,283; July 25.
Sinclair Militor Corporation, New York, N. Y. Motor cycles, side cars, and trailers. No. 157,206; July 25.
Sioux Candy Co., Sioux City, Iowa. Candies. No. 157,284; July 25.
Societa Anonima Itala Film, Turin, Italy. Cinematograph films. No. 157,207; July 25.
Societe Civile des Heritiers de P. Basset, Tassin la Demi-Lune, Rhone, France. General analgesic and medicine for neuralgia, headache, toothache, rheumatism, and grippe. No. 157,285; July 25.
Soenksen-Wolff-Spiers Company, Inc., Aurora, Ill. Oil-cushion tappets. No. 157,286; July 25.
Stadium Underwear Co. Inc., Baltimore, Md. Pyjamas, robes, and combination sets of pyjamas and robes. No. 157,208; July 25.
Standard Auto Parts Co. of America, Newark, N. J. Electric signal lamps, particularly for motor vehicles. No. 157,288; July 25.
Steel Products Engineering Company, The, Springfield, Ohio. Machine tools, etc. No. 157,209; July 25.
Sterling Hosiery Co., Chicago, Ill. Men's, women's, and children's hosiery. No. 157,210; July 25.
Sterling Parts Mfg. Co., Providence, R. I. Oil gauges. No. 157,289; July 25.
Sterling Toy Works, Sterling, Ill. Stilts. No. 157,290; July 25.
Stevens, Ernest, Limited, Cradley Heath, England. Culinary and kitchen utensils made of metal. No. 157,211; July 25.
Stimpson, Edwin B., Company, Brooklyn, N. Y. Rivets. No. 157,291; July 25.
St. Louis Pump & Equipment Company, St. Louis, Mo. Fluid-measuring pumps and meters. No. 157,287; July 25.
Strouse-Baer Co., The, Baltimore, Md. Women's, misses', and children's suits, dresses, coats, shirts, etc., and boys' suits. No. 157,212; July 25.
Sunbeam Knitting Mills, Inc., New York, N. Y. Sweaters. No. 157,213; July 25.
Superior Knitting Company Inc., Port Carbon, Pa. Men's, boys', women's, misses', and children's knit underwear. No. 157,214; July 25.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbott Shoe Co., North Reading, Mass. Boots, shoes, and slippers. No. 156,974; July 25.
Adam Int-Hout, Chicago, Ill. Mixture for making pies, puddings, custards, and cake filling. No. 156,975; July 25.
Adler, David, & Sons Co., Milwaukee, Wis. Men's and young men's coats, waistcoats, trousers, and overcoats. No. 156,976; July 25.
Aktiengesellschaft Cilander, Herisau, Switzerland. Cotton, linen, and half-silk piece goods. Nos. 156,977–80; July 25.
Alligator Oil Clothing Company, St. Louis, Mo. Waterproof clothing. No. 156,981; July 25.
Alperin, Benjamin, Red Bank, N. J. Mayonnaise. No. 156,982; July 25.
Ambassador Cap Co., New York, N. Y. Men's and boys' caps and hats. No. 156,983; July 25.
American Collar Co., Inc., Troy, N. Y. Collars, cuffs, shirts. No. 157,251; July 25.
American Crayon Company, The, Sandusky, Ohio. Dustless crayons. No. 156,984; July 25.
American Naval Uniform Co., Hyde Park, Mass. Naval and army uniforms and hats, men's suits, hats, etc. No. 156,985; July 25.
American Safety Razor Corporation, New York and Brooklyn, N. Y. Razors, safety, razors, safety-razor blades. No. 156,986; July 25.
American Thread Company, The, Jersey City, N. J. Spool and sewing cotton, thread, cotton yarn. No. 156,987; July 25.
Am-O-Meter Company, Inc., The, Smithville, Tex. Electric-current detector. No. 156,988; July 25.
Anchor Grip-Heel Company, The. (See Runyan, Arthur L., assignor.)
Armstrong, D., & Co. Inc., Rochester, N. Y. Shoes for women. No. 156,989; July 25.
Armstrong Manufacturing Co., The, Bridgeport, Conn. Pipe vises and stocks and dies for pipe threading. No. 156,990; July 25.
Atlas Tack Corporation, Fairhaven, Mass. Tacks, nails, rivets. No. 157,252; July 25.
Auerbach, Louis, New York, N. Y. Ties and scarfs. Nos. 156,991–2; July 25.
Austin, Nichols & Co., Inc., Richmond, Va. Automobile tires and tubes of rubber and a combination of fabric and rubber. No. 156,993; July 25.
Barnett Canvas Goods & Bag Co. Inc., Philadelphia, Pa. Canvas tents and covers for covering merchandise, trucks, etc. No. 156,995; July 25.
Barr Company, The, Chillicothe, Ohio. Vending machine. No. 156,996; July 25.
Barshal Company, Cleveland, Ohio. Vault lockers for the storage of valuables, safes, etc. No. 156,997; July 25.
Bass, G. H., & Company, Wilton, Me. Moccasins. No. 156,998; July 25.
Bay Bee Oil Co., New York, N. Y. Olive oil. No. 156,999; July 25.
Bay State Stamping Company, Worcester, Mass. Curtain fixtures and brackets. No. 157,253; July 25.
Beacon Manufacturing Company, Providence, R. I. Blankets of double thickness. No. 157,000; July 25.
Berkander, Geo. F., Providence, R. I. Dolls. No. 157,001; July 25.
Berman, Reuben, New York, N. Y. Hosiery. No. 157,002; July 25.
Bethlehem Steel Company, Bethlehem, Pa. Sheet steel. No. 157,003; July 25.
Birkenfeld, Strauss & Co., New York, N. Y. Women's and children's underwear, children's dresses, etc. No. 157,004; July 25.
Blue Star Knitting Co., Milwaukee, Wis. Knit underwear of wool, cotton, silk, and mixtures thereof for women and children. No. 157,005; July 25.
Bonar-Phelps Company, New York, N. Y. Hats for men. Nos. 157,006–8; July 25.
Bonar-Phelps Company, New York, N. Y. Hats for men. No. 157,009; July 25.
Bonar-Phelps Company, New York, N. Y. Hats for men. No. 157,255; July 25.
Borden, George L., Trenton, N. J. Cut glass. No. 157,010; July 25.
Bradley, James J., New York, N. Y. Toilet soap. No. 157,256; July 25.
Brainerd & Armstrong Company, The, New London, Conn. Artificial-silk threads. No. 157,011; July 25.
Brown Shoe Company, Inc., St. Louis, Mo. Shoes. No. 157,012; July 25.
Brown Shoe Company, Inc., St. Louis, Mo. Men's leather shoes. No. 157,013; July 25.
Brown Shoe Company, St. Louis, Mo. Shoes. No. 157,014; July 25.
Brownstein-Louis Co., Los Angeles, Calif. Garment to be worn both as a sleeping robe and lounging robe. No. 157,015; July 25.
Buckeye Brass and Manufacturing Company, The, Cleveland, Ohio. Bearings and bushings. No. 157,016; July 25.
Buhr & Smith, Cincinnati, Ohio. Chocolate-covered candies. No. 157,017; July 25.
Burson Knitting Company, Rockford, Ill. Hosiery. No. 157,018; July 25.
Burt Olney Canning Company, The, Oneida, N. Y. Condensed and evaporated milk. No. 157,019; July 25.
Butler, Fergus A., New York, N. Y. Shoes of leather, rubber, fabric, and combinations thereof. No. 157,020; July 25.
Carey, J. P., & Co., Inc., New York, N. Y. Certain articles of clothing. No. 157,021; July 25.
Caro & Company, Inc., New York, N. Y. Ladies' kimonos, house dresses, and aprons, men's, women's, and children's bath robes. No. 157,022; July 25.
Carpenter Steel Company, The, Reading, Pa. Tool steels in bars, billets, and shapes. No. 157,023; July 25.
Challenger, Edgar O., New York, N. Y. Kansas-hard-wheat clear flour. No. 157,024; July 25.
Chalmers Knitting Company, Amsterdam, N. Y. Union suit. No. 157,025; July 25.
Chastern, Inc., New York, N. Y. Pyrophoric igniters. No. 157,026; July 25.
Clarke, A. Keeney, New York, N. Y. Hosiery. No. 157,270; July 25.
Cleveland Twist Drill Company, The, Cleveland, Ohio. Metal-working small tools. No. 157,027; July 25.
Clifton Mfg. Company, Waco, Tex. Tents, awnings, paulins, tarpaulins, and detached waterproof wagon covers. No. 157,028; July 25.
Coleman, Aloysius J., New York, N. Y. Ordinary lead pencils and magazine lead pencils. No. 157,029; July 25.
Commonwealth Shoe and Leather Company, Boston, Mass. Leather boots and shoes. No. 157,030; July 25.
Coombes & Levison, New York, N. Y. Coats, vests, trousers, and overcoats. No. 157,031; July 25.
Conard, Albert J., Kansas City, Mo. Brake linings. No. 157,032; July 25.
Cornwell, G. G., & Son, Inc., Washington, D. C. Coffee. No. 157,033; July 25.
Cotton States Hosiery Mills, The, Chattanooga, Tenn. Underwear of all kinds. No. 157,034; July 25.
Craddock-Terry Company, Lynchburg, Va. Men's and boys' shoes. No. 157,035; July 25.
Cunningham, A., Limited, Stewarton, Scotland. Coats, capa, bonnets, hats, gloves, hosiery, etc. No. 157,037; July 25.
Curtiss Aeroplane and Motor Corporation, Buffalo and Garden City, N. Y. Airplanes. No. 157,038; July 25.
Dadd & Ladd Trouser Company, Davenport, Iowa. Trousers and pants. No. 157,039; July 25.
Dalton Manufacturing Corporation, Sound Beach, Conn. Turning lathes. No. 157,040; July 25.
Davis, Walter M., doing business as D. S. Co., Coeur d'Alene, Idaho. Preparation for the relief of dyspepsia, indigestion, gas, etc. No. 157,257; July 25.
Defender Photo Supply Company, Inc., Rochester, N. Y. Photographic paper. No. 157,041; July 25.
De Klyn Candy Co., The, Cleveland, Ohio. Candy. No. 157,042; July 25.
De La Rue, Thomas, and Company, Limited, London, England. Bottle stoppers and lids. No. 157,043; July 25
De La Vergne Machine Company, New York, N. Y. Steam and internal-combustion engines, air compressers, etc. No. 157,044; July 25.
Denser, Goodhart & Co., New York, N. Y. Men's hats. No. 157,045; July 25.
Derwent Mills, Limited, Matlock Borough, England. Certain articles of clothing. No. 157,046; July 25.
Dunbar Drop Forge Company, Chicago, Ill. Ferrous and nonferrous metal castings and forgings. No. 157,047; July 25.
Electrozone Water Company, Oklahoma, Okla. Nonalcoholic beverages and purified drinking water. No. 157,049; July 25.
Elektrizitätswerk Lonza, Gampel, Switzerland. Burners for lighting, heating, and cooking purposes. No. 157,050; July 25.
Elias and Lowenstein Company, The, Cincinnati, Ohio. Bungalow aprons. No. 157,051; July 25.
Essex Rubber Company, Trenton, N. J. Rubber soles and heels. No. 157,052; July 25.
Etablissements Reynier. (See Reynier & Cie., assignors.)
Eureka Steel Range Co., O'Fallon, Ill., and St. Louis, Mo. Steel coal, wood and combination of coal and gas and wood and gas ranges. Nos. 157,053–4; July 25.
Evans, David G., Coffee Company, St. Louis, Mo. Coffee, tea, spices, vinegar, and flavoring extracts. No. 157,055; July 25.
Excelsior Shoe Company, The, Portsmouth, Ohio. Shoes and boots. No. 157,056; July 25.
Excelsior Wrapper Company, Chicago, Ill. Excelsior, excelsior products. No. 157,057; July 25.
Fabrique d'Horlogerie de Fontainemelon S. A., Fontainemelon, Switzerland. Watch blanks. Nos. 157,058–9; July 25.

Stevens, Frederick A., assignor to Stevens and Company, Incorporated, Providence, R. I. Ophthalmic mounting. (Reissue.) No. 15,425; July 25.
Stewart, Ernest, et al. (See Ziegler, George J., assignor.)
Stewart, Henri M., New York, N. Y. Remittance reminder. No. 1,423,886; July 25.
Stewart, Richard F., Briarcliff, N. J. Truck loading and unloading mechanism. No. 1,423,887; July 25.
Stewart, William J. (See Woolcock, John, assignor.)
Stiemke, Walter H. (See Jett, George C., assignor.)
Stolle, Frank F. (See Stolle, John W., assignor.)
Stolle, John W., Ashland, Me., assignor of one-third to F. F. Stolle, Redding, Conn. Unbreakable cant hook. No. 1,423,781; July 25.
Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,424,046; July 25.
Stone, Jay C., Spokane, Wash. Mechanical movement. No. 1,423,973; July 25.
Stowell, Lawrence H., Wheatland, N. Dak. Grain holder for binders. No. 1,424,122; July 25.
Strauss, Mortimer L., Cleveland, Ohio. Casting or sealing composition. No. 1,423,821; July 25.
Strohbach, Henry J., New York, N. Y. Coffee urn. No. 1,423,547; July 25.
Stuart, Kenneth E., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Apparatus for electrolyzing solutions. No. 1,423,584; July 25.
Sugar Machinery Company. (See Steps, Robert A., assignor.)
Svedahl, August O., Marmarth, N. Dak. Tail light for automobiles. No. 1,424,047; July 25.
Swan, Willis A., Port Huron, Mich. Air pump. No. 1,424,123; July 25.
Szalay, Joseph, Vicksburg, Miss. Window latch. No. 1,424,048; July 25.
Szczepanik, Jan, Tarnow, Poland. Cinematograph. No. 1,423,697; July 25.
Szigethy, Joseph, Himlerville, Ky. Shoe-buttoning device. No. 1,423,782; July 25.
Tatum, Samuel C., Company, The. (See Carpenter, Charles C., assignor.)
Taylor, Alfred. (See Taylor, Harold D., assignor.)
Taylor, Augustus. (See Fuller, Leonard F., assignor.)
Taylor, Edward G., Madison, Wis. Dishpan. No. 1,423,548; July 25.
Taylor, George A., Weehawken, N. J., assignor to National Biscuit Company, New York, N. Y. Display rack. No. 1,423,585; July 25.
Taylor, George N., East Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Tension device and yarn cleaner. No. 1,424,124; July 25.
Taylor, Harold D., assignor of one-half to A. Taylor, York, England. Range-finding and the like instrument. No. 1,424,125; July 25.
Teagle Company, The. (See Milton, John L., assignor.)
Tench, Samuel V., Wilkes-Barre, Pa. Flight for conveyer chains. No. 1,424,126; July 25.
Theleen, Oscar H., assignor to Frost Manufacturing Company, Kenosha, Wis. Flushing mechanism. No. 1,423,888; July 25.
Thole, Edward J., Evansville, Ind. Box. No. 1,424,127; July 25.
Thomas, Benjamin D., assignor of one-tenth to Thomas-Morse Aircraft Corporation, Ithaca, N. Y. Dual control for airplanes. No. 1,424,049; July 25.
Thomas, Hockley M., and M. Fogel, New York, N. Y.; said Fogel assignor to said Thomas. Support and cutter. No. 1,424,050; July 25.
Thomas-Morse Aircraft Corporation. (See Thomas, Benjamin D., assignor.)
Thompson, Willsie A. S. (See Gunn, R. W., and Thompson.)
Throne, Robert P., Syracuse, N. Y. Machine for making chaplets. No. 1,423,586; July 25.
Thurston, Frank S., Chicago, Ill. Feeding device. No. 1,423,698; July 25.
Thwaites, William H., Grand Rapids, Mich. X-ray cabinet and machine. No. 1,423,635; July 25.
Tilton, Frank A., et al. (See Cole, Albert L., assignor.)
Toledo Scale Company. (See Hem, Halvor O., assignor.)
Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Power cable-reeling mechanism for self-propelled machines. No. 1,423,889; July 25.
Tuttle, Harry B., Jeannette, Pa. Tire carrier. No. 1,423,699; July 25.
Underwood Typewriter Company. (See Wherry, John A., assignor.) (Reissue.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
United Lace & Braid Manufacturing Company of Auburn. (See Armitage, George H., assignor.)
United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
United Shoe Machinery Corporation. (See Shaw, Walter, assignor.)
United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
United States Caster Co. (See Van Meter, George F., assignor.)
United States Playing Card Company, The. (See McCracken, James D., assignor.)
Universal Winding Company. (See Adell, E., and Brink, assignors.)
Universal Winding Company. (See Taylor, George N., assignor.)
Van Allen, George L. (See Sibley, A. H., and Van Allen.)
Van Meter, George F., assignor to United States Caster Co. Incorporated, Indianapolis, Ind. Locking means for caster pintles. No. 1,423,700; July 25.
Vaughn, Patrick H., Morris, Minn. Feed roller. No. 1,423,783; July 25.
Vickers Limited. (See Dawson, A. T., and Horne, assignors.)
Vinson, Clay R., Tulsa, Okla. Napkin-dispensing device. No. 1,423,701; July 25.
Voss, Henry E., administrator. (See Burris, James N.) (Reissue.)
Vula, Trajan, Garches, assignor to C. Bredtcann, Paris, France. Flying machine. No. 1,423,636; July 25.
Vuille, George, Shelby, Ohio. Hinge check. No. 1,423,784; July 25.
Wallwork, Samuel, Summerville, Pa. Railway tie and securing device. No. 1,423,702; July 25.
Wallwork, Samuel, Summerville, Pa. Switch construction. No. 1,423,703; July 25.
Walsh, John J. P., New York, N. Y. Tire. No. 1,423,549; July 25.
Wand, Leo J., Elizabeth, Ill. Chain lock. No. 1,423,974; July 25.
Ward Leonard Electric Company. (See Bullinger, Frederic H., assignor.)
Wardwell, Simon W., deceased, Providence, R. I.; C. V. J. Christensen, E. C. Smith, A. A. Armington, and W. W. Bardsley, executors. Yarn retriever for braiding or similar machines. No. 1,423,587; July 25.
Warner, Arthur W., Media, Pa., assignor to The American Gas Company of New Jersey, Camden, N. J. Water seal for gas retorts. No. 1,423,975; July 25.
Warner, Robert K., West Haven, Conn. Sampling apparatus. No. 1,423,890; July 25.
Wasyl Klymko et al. (See Andrusyszyn, Frank, assignor.)
Watrous, Denton J. (See Hibbard, R. B., Watrous, and Bassette.)
Wayne, Herbert N., Washington, D. C. Universal joint. No. 1,424,051; July 25.
Weber, George A., Stamford, Conn. Nonpuncturable tire. No. 1,423,976; July 25.
Weber, George A., Stamford, Conn. Nonpuncturable tire. No. 1,423,977; July 25.
Weibel, Emil A., Fairbank, Iowa. Handle. No. 1,424,052; July 25.
Weintraub, Ezechiel, New York, N. Y., assignor to General Electric Company. Preparing catalyzing material. No. 1,423,978; July 25.
Weisberg, Louis, and R. S. Potter, Grantwood, N. J., assignors to The Barrett Company. Polyglycerol resin. No. 1,424,137; July 25.
Western Electric Company. (See Cardwell, Allen D., assignor.)
Western Electric Company. (See Freile, Bruce, assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Wheeler, James W., jr., Chattanooga, Tenn. Direction indicator. No. 1,423,588; July 25.
Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter. (Reissue.) No. 15,426; July 25.
Whitaker, William H., assignor to American Atomized Fuel Company, Shelbyville, Ill. Pulverized-fuel carburetor and feeder. No. 1,424,053; July 25.
White, Arthur J. (See Mitchell, P. L., and White.)
White, Edward T. (See Canell, Charles E., assignor.)
White, Ida E., administratrix. (See White, Joseph B.)
White, James S., assignor to Allied Golf Company, Chicago, Ill. Golf bag. No. 1,423,891; July 25.
White, Joseph B., deceased, by I. E. White, administratrix, Clarion, Iowa. Seed and ground tester. No. 1,423,979; July 25.
Whiting Corporation. (See Townsend, John S., assignor.)
Wiehl, Alfred, Brooklyn, N. Y. Phonograph-record cabinet. No. 1,424,054; July 25.
Wilde, Adolph, Bellflower, Ill. Tractor coupling. No. 1,423,785; July 25.
Wilder, Eugene, Boulder, Colo. Aeroplane. No. 1,424,055; July 25.
Will & Baumer Candle Company, The. (See Grosemann, Robert, assignor.)
Williams, Arthur G., Grantwood, N. J., assignor to The Barrett Company. Production of dicarboxylic acid. No. 1,423,980; July 25.
Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam release and support. No. 1,423,892; July 25.
Williams, William E., Chicago, Ill. Highway road. No. 1,423,893; July 25.
Williams, William E., Wilmette, Ill. Bumper for automobiles. No. 1,423,894; July 25.
Williamson, G. H., & Sons, Limited. (See Drury, Frank, assignor.)
Willson, Andrew E. (See Willson, Mabel W. and A. E.)
Willson, Mabel W. and A. E., Grand Rapids, Mich. Powder puff. No. 1,423,745; July 25.
Wilson Welder & Metals Company. (See Churchward, Jack, assignor.)
Winblad, Niklas, Stepney, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Ignition apparatus for internal-combustion engines. No. 1,424,056; July 25.

Wing, Claude E., College Point, and H. Schelhammer, Whitestone Landing, assignors to American Hard Rubber Co., New York, N. Y. Machine for making combs. No. 1,423,981; July 25.
Winston, William J. (See Mitts, P. S., and Winston.)
Winters, Lee L., Ann Arbor, Mich. Motor-meter lock. No. 1,423,822; July 25.
Witzenmann, Emil, Pforzheim, Germany. Flexible metal hose. No. 1,424,057; July 25.
Wolfe, Arthur P., Lockport, N. Y., assignor to Harrison Radiator Corporation. Supporting and actuating means for automobile radiator shutters. No. 1,423,982; July 25.
Wolff, Albert, Berlin, Germany. Sterilizing air. No. 1,423,704; July 25.
Wood, Frederick W., Ashton-under-Lyne, assignor to Woods Die Press Improvements Company, Limited, London, England. Die press for printing and embossing. No. 1,423,589; July 25.
Wood, John T., East St. Louis, Ill. Washboiler attachment. No. 1,423,823; July 25.
Wood, Lyndon D. (See Falk, Hilbert L., assignor.)
Woodard, William E., Forest Hills, N. Y. Trailer truck for locomotives. No. 1,423,895; July 25.
Woods Die Press Improvements Company, Limited. (See Wood, Frederick W., assignor.)
Woodward, Oscar, Babylon, assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,423,637; July 25.
Woolcock, John, assignor to W. J. Stewart, London, England. Molding of concrete products such as blocks, panels, structures, and the like. No. 1,423,983; July 25.
Wyckoff, William L., Brooklyn, N. Y. Calculating rule. No. 1,423,896; July 25.
Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Connector switch. No. 1,423,897; July 25.
Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,423,898; July 25.
Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,423,899; July 25.
Yehling, William W., Butte, Mont. Spike. No. 1,424,058; July 25.
Youngs, George B., New York, N. Y. Brake. No. 1,424,059; July 25.
Youngstown Sheet & Tube Company, The. (See Jupp, A. E., and Crooks, assignors.)
Zeier, George W., Ethan, S. Dak. Husker. No. 1,424,060; July 25.
Ziegler, George J., assignor of one-third to S. Gibbons, one-third to E. Stewart, and one-third to F. C. Beutel, Los Angeles, Calif. Tractor. No. 1,424,128; July 25.
Zilen, Victor W., assignor to Lucey Manufacturing Corporation, Chattanooga, Tenn. Crown-block cable guard. No. 1,423,550; July 25.
Zimmerman, Walter, Kansas City, Kans. Garment fastener. No. 1,423,590; July 25.
Zoelly, Heinrich, and A. Gaag, Zurich, Switzerland. Servo-motor-controlling mechanism. No. 1,423,786; July 25.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Barci, George, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 61,266; July 25.
Chapman, William M., Hartford, Ind. Ash tray. No. 61,267; July 25.
Enoch, J. Olive, Los Angeles, Calif. Stocking baby doll. No. 61,268; July 25.
Farnsworth, Kenneth C. (See Roberts, C. V., and Farnsworth.)
Forman Bassett Company, The. (See Meyer, Frank, assignor.)
Gandioz, Edmond, Watford, England, assignor to Witcombe, McGeachin & Co., New York, N. Y. Textile fabric, wall paper, wrapping paper, or article of similar nature. No. 61,269; July 25.
Javal, Fernand, Paris, France. Paper or similar article. No. 61,270; July 25.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 61,271; July 25.
Lindner, Harold H., assignor to Montague & Co. Inc., New York, N. Y. Valance. No. 61,272; July 25.
Lockwood, Catharine B., Washington, D. C. Toy doll. No. 61,273; July 25.
Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 61,274; July 25.
Meyer, Frank, Lakewood, Ohio, assignor to The Forman Bassett Company. Safety paper. No. 61,275; July 25.
Montague & Co. Inc. (See Lindner, Harold H., assignor.)
Pelt, Joseph, Newark, N. J. Knitted cape. No. 61,276; July 25.
Roberts and Mander Stove Company. (See Roberts, C. V., and Farnsworth, assignors.)
Roberts, Clarence V., and Kenneth C. Farnsworth, assignors to Roberts and Mander Stove Company, Philadelphia, Pa. Gas heater. No. 61,277; July 25.
Rowland, Gladys, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 61,278; July 25.
Schulze, John W., assignor to Alfred Vester Sons, Inc., Providence, R. I. Husk for lighting fixtures. No. 61,279; July 25.
Shiman Bros. & Co. Inc. (See Shiman, David, assignor.)
Shiman, David, assignor to Shiman Bros. & Co. Inc., New York, N. Y. Finger ring. No. 61,280; July 25.
Strasser, William, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 61,281–4; July 25.
Susquehanna Silk Mills. (See Barci, George, assignor.)
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Susquehanna Silk Mills. (See Rowland, Gladys, assignor.)
Susquehanna Silk Mills. (See Strasser, William, assignor.)
Susquehanna Silk Mills. (See Tardy, Viola, assignor.)
Tardy, Viola, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 61,285–6; July 25.
Vester, Alfred, Sons, Inc. (See Schulze, John W., assignor.)
Witcombe, McGeachin & Co. (See Gaudioz, Edmond, assignor.)

Newsom, Joseph N., and H. E. Harder, assignors to Newsom Valve Company, St. Louis, Mo. Valve device for pneumatic tires. No. 1,423,873; July 25.
Newsom Valve Company. (See Newsom, J. N., and Harder, assignors.)
Nicholls, Albert E., Wilson Creek, Wash. Internal-combustion engine. No. 1,423,677; July 25.
Nicoll, Herbert. (See Gibson, R. E., and Nicoll.)
Nilson, Richard D., Bell, Pa. Rope ladder construction. No. 1,424,115; July 25.
Nitrogen Corporation, The. (See Arnold, E. E., and St. Clair, assignors.)
Nitrogen Corporation, The. (See Clancy, John C., assignor.)
Nitrogen Corporation, The. (See St. Clair, Palmer, jr., assignor.)
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Paper-feeding mechanism. No. 1,424,116; July 25.
Nocting, William H., assignor to Faultless Caster Company, Evansville, Ind. Ball-bearing caster. No. 1,424,028; July 25.
Nolan, Thomas C. (See Potter, L. D., and Nolan.)
Nordiska Kullager Aktiebolaget. (See Leon, Karl O., assignor.)
Nordström, Ott, Matfors, and A. Mörck, Sundsvall, Sweden. Means for continuous predrying of fuel. No. 1,423,728; July 25.
Norlander, Charles A., assignor of one-half to C. E. Davidson, Greenville, Ill. Carburetor. No. 1,423,579; July 25.
Northrup, Elmer C., San Francisco, Calif. Box-nailing machine. No. 1,423,778; July 25.
Northwestern Manufacturing Company. (See Shallcross, Wilmer M., assignor.)
Oakley, John, Springfield, Mass. Broach. No. 1,423,814; July 25.
Oefinger, John L., Denver, Colo. Broom holder. No. 1,423,678; July 25.
Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
Okonite Company, The. (See Loomis, Evarts G., assignor.)
Olin, Fred C., Buffalo, N. Y. Tractor. No. 1,423,962; July 25.
Oliver, Sewall K., Columbia, S. C. Warp take-up and tensioning mechanism for looms. No. 1,423,729; July 25.
Oliver, Thomas C. (See Hechenbleikner, I., and Oliver.)
O'Neil, Thomas J., Pittsburgh, Pa. Antiskid device. No. 1,423,963; July 25.
Oppenheim, Albert. (See Christie, Lewis D., assignor.)
Orr, Clifford B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Inner tube for pneumatic tires. No. 1,424,135; July 25.
Orr, George D., Cincinnati, Ohio. Accessory for automobiles. No. 1,423,730; July 25.
Orr, William V., Cleveland, Ohio. Suction cleaner. (Reissue.) No. 15,423; July 25.
Osborn, Alden E., New York, N. Y. Motor vehicle. No. 1,423,731; July 25.
Oswald, Richard W., Pittsburgh, Pa. Fan wheel. No. 1,423,964; July 25.
Ozabal, Rudolph, Chicago, Ill. Ash receptacle. No. 1,423,538; July 25.
P. & M. Company, The. (See Henggi, Lewis O., assignor.) (Reissue.)
Paige, Jason, Evanston, Ill. Track switch. No. 1,423,965; July 25.
Palmaffy, Nicholas, West Orange, N. J. Valve. No. 1,423,966; July 25.
Palmer, Martin J., Chicago, Ill. Pocketbook protector. No. 1,423,539; July 25.
Pancoast, William G., Wilmette, and W. J. Grotenhuis, Chicago, Ill., assignors, by mesne assignments, to Biflex Products Company. Automobile bumper-attaching hanger. No. 1,423,874; July 25.
Park City Cornice Works, Inc. (See Pitz, A. G., and Saur, assignors.)
Park, Nelson V., Niles, Mich. Electroplating process. No. 1,423,815; July 25.
Parks, Dennis. (See Mitchell, J. E., and Parks.)
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Manufacture of swivel members. No. 1,424,029; July 25.
Partee, James, Santa Cruz, Calif. Concrete building structure. No. 1,423,779; July 25.
Paulson, Walter H., assignor to H. D. Lathrop, Chicago, Ill. Can-washing machine. No. 1,423,816; July 25.
Pavitchich, Steve, Woodriver, Ill. Drain valve. No. 1,423,679; July 25.
Peck, Harry E., Waverly, N. Y. Shoehorn. No. 1,424,030; July 25.
Peerless Smoking Jacket Company. (See Leiken, Philip, assignor.)
Perfect Vacuum Canning Company. (See Bach, Nells P., assignor.)
Perfecto Gear Differential Co. (See Starr, Charles E., assignor.) (Reissue.)
Peters, Peter H., Downers Grove, Ill. Folding chair. No. 1,424,031; July 25.
Peterson, Peter R., Salt Lake City, Utah, assignor to Ideal Rim Tool Co., Jacksonville, Fla. Rim tool. No. 1,423,875; July 25.
Pfaff, Michael. (See Falk, Andrew, assignor.)
Pfanstiehl, Carl, Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Poppet valve. No. 1,423,876; July 25.
Pfanstiehl Company. (See Pfanstiehl, Carl, assignor.)
Pfeil, Frank L. H., Philadelphia, Pa. Internal-combustion engine. No. 1,423,680; July 25.
Phillips Mine & Mill Supply Co. (See Phillips, R. F., and McCloskey, assignors.)
Phillips, Robert F., and L. J. McCloskey, assignors to Phillips Mine & Mill Supply Co., Pittsburgh, Pa. Washer for mine-car wheels. No. 1,423,877; July 25.
Pickering, Theodore H., assignor to Josiah Anstice & Company, Inc., Rochester, N. Y. Vegetable peeler. No. 1,424,032; July 25.
Piernikowski, Wladyslaw, and S. Grudsinski, Philadelphia, Pa. Spring wheel. No. 1,423,733; July 25.
Pitho Plastic Board Company. (See Lockhart, James A., assignor.)
Pittsburgh Oil Refining Corporation. (See Bolleau, Walter K., assignor.)
Pitz, Adolph G., and O. X. Sauer, assignors to Park City Cornice Works, Inc., Bridgeport, Conn. Skylight lift. No. 1,423,817; July 25.
Pixley, Leland F., Afton, N. Y. Ice conveyer. No. 1,423,732; July 25.
Pledger, Thomas C. (See Broadway, W., and Pledger.)
Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Liquid-cooled conduit for furnaces. No. 1,423,540; July 25.
Popper, Isaac C., New York, N. Y. Automatic butter-cutting machine. No. 1,424,117; July 25.
Porter Brothers Textile Company. (See Hill, W. E., and Firth, assignors.)
Post, George B., assignor to Huff, Daland & Company, Inc., Ogdensburg, N. Y. Airplane. No. 1,423,681; July 25.
Post, Nathaniel B., Chicago, Ill. Coffee roaster. No. 1,423,818; July 25.
Potter, Laurens D., and T. C. Nolan, Emmetsburg, Iowa. Loader device. No. 1,423,878; July 25.
Potter, Ralph S. (See Weisberg, L., and Potter.)
Potter, Stephen J., assignor to Sheet Lathing Corporation, Syracuse, N. Y. Plaster support for walls. No. 1,423,879; July 25.
Potts, Samuel A. (See Gains, Chester R., assignor.)
Powers, Fred W., assignor to The Powers Regulator Company, Chicago, Ill. Water mixer. No. 1,423,880; July 25.
Powers Regulator Company. (See Powers, Fred W., assignor.)
Pullman Davenport and Upholstered Furniture Company. (See Kramer, J., Kuehne, and Kopplin, assignors.)
Putnam, Alexander S., Los Angeles, Calif. Bed-rail fastener. No. 1,423,623; July 25.
Putt, Harlie O., Elkhart, Ind. Oscillator for magnetos. No. 1,423,734; July 25.
Putt, Harlie O., Elkhart, Ind. Oscillator for magnetos. No. 1,423,735; July 25.
Radford, George S., assignor, by mesne assignments, to Central Union Trust Company of New York, New York, N. Y. Color-matching room. No. 1,423,882; July 25.
Ramer, Jacob B., Chambersburg, Pa. Equalizing and steering gearing for motor vehicles. No. 1,424,118; July 25.
Reinhold, Philip A., Akron, Ohio. Tractor and plowing attachment therefor. No. 1,423,736; July 25.
Remington Accounting Machine Corporation. (See Selb, George A., assignor.)
Remington Accounting Machine Corporation. (See Woodward, Oscar, assignor.)
Remy Electric Company, The. (See Replogle, James B., assignor.)
Rench, W. S. (See Ericson, Louis E., assignor.)
Renwick, Frank F. (See Agnew, A. J., and Renwick.)
Replogle, James B., Detroit, Mich., assignor to The Remy Electric Company. Engine governor. No. 1,424,140; July 25.
Rice, Roy E., Bucyrus, Ohio, assignor to Roberts and Schaefer Company, Chicago, Ill. Limit switch for electric-driven hoists. No. 1,423,624; July 25.
Richards, Earl M., Wilkinsburg, Pa. Fluid-pressure brake. No. 1,424,033; July 25.
Richmond, George E., Enid, Okla. Thrashing machine. No. 1,424,119; July 25.
Ricks, D. A., et al. (See Johnson, Adolph A., assignor.)
Bigert, Herman, Brooklyn, N. Y. Clamp. No. 1,424,034; July 25.
Robbins, George A. H., and S. F. E. Einsiedel, Brisbane, Queensland, Australia. Resilient core for motor tires. No. 1,423,580; July 25.
Roberts and Schaefer Company. (See Rice, Roy E., assignor.)
Robson, John, Anita, Iowa. Four-horse equalizer. No. 1,423,682; July 25.
Rockoff, Bernard. (See Rockoff, Elias, assignor.)
Rockoff, Elias, assignor of one-half to B. Rockoff, Chicago, Ill. Stem for electric-lighting fixtures. No. 1,423,683; July 25.
Rockwell, Edward D., Bristol, Conn. Valve-stem cap. No. 1,423,541; July 25.
Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Bore gauge. No. 1,423,542; July 25.
Rogers, Frank J., Independence, Kans. Well-cleaning device. No. 1,423,625; July 25.
Rogers, Harry R., assignor to Chicago Car Seal Company, Chicago, Ill. Seal. No. 1,423,881; July 25.

Rogers, Herbert D., Lewistown, Ill. Bee escape. No. 1,423,883; July 25.
Roof, Robert M., Anderson, Ind. Multiple-valve-grinding machine. No. 1,424,035; July 25.
Roos, Delmar G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Clutch. No. 1,424,036; July 25.
Rose, Abel, Cleveland, Ohio. Trousers support. No. 1,423,684; July 25.
Rossman, William F., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Making of zinc retorts and other refractory shapes. No. 1,424,120; July 25.
Roush, Herbert E. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)
Rudiger, Abraham M. (See Brautigam, Anthony F., assignor.)
Rudolph, Emett H., Pershing, Okla. Tank-car-loading device. No. 1,424,037; July 25.
Rush, Allan C., Los Angeles, assignor of one-half to H. L. Miller Glendale, Calif. Ocean pier. No. 1,423,884; July 25.
Sual, Henry G. (See Stafford, Frederick S., assignor.)
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Transmitting pictures and the like. No. 1,423,737; July 25.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Sheet-perforating machine. No. 1,423,738; July 25.
Sato, Ryuji, and C. Matsui, New York, N. Y. Swimming race. No. 1,424,038; July 25.
Saur, Otto X. (See Pitz, A. G., and Saur.)
Sautter, Michael, Spokane, Wash. Husking mitten. No. 1,423,543; July 25.
Schaaf, John B., assignor of one-half to C. Arbogast, Cincinnati, Ohio. Curtain-window light. No. 1,423,685; July 25.
Schaedler, Wilfred J., Brooklyn, N. Y. Tank gauge. No. 1,423,544; July 25.
Schaper, Henry C., assignor to The General Automatic Scale Company, St. Louis, Mo. Weight indicator for scales. No. 1,423,885; July 25.
Schat, Ane P., The Hague, Netherlands. Automatically-braked davit. No. 1,423,739; July 25.
Schelhammer, Herman, Whitestone Landing, assignor to American Hard Rubber Co., New York, N. Y. Comb-cutting machine. No. 1,423,967; July 25.
Schelhammer, Herman, Whitestone Landing, assignor to American Hard Rubber Co., New York, N. Y. Comb-cutting machine. No. 1,423,968; July 25.
Schelhammer, Herman. (See Wing, C. E., and Schelhammer.)
Schelter, John C., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last. No. 1,423,740; July 25.
Schulte, Louis, Chicago, Ill. Electrotinning. No. 1,423,686; July 25.
Schultz, John M., assignor to J. S. Chennour, Chicago, Ill. Typewriter attachment. No. 1,423,687; July 25.
Schürmann, Carl, Dusseldorf, Germany. Multiple-roll supercalender. No. 1,423,969; July 25.
Schuske, Henry F. G., St. Joseph, Mo. Seam-setting tool. No. 1,423,581; July 25.
Scott, Fletcher J., Hurdland, Mo. Sawing machine. No. 1,424,039; July 25.
Scott, John E., Philadelphia, Pa. Saltcellar. No. 1,424,040; July 25.
Scott, Michael J. (See Des Roches, Hilton H., assignor.)
Schulse, John F. W. (See Bailey, G. C., Fischer, and Schulse.)
Seamless Rubber Company. (See De Gowin, Isaac, assignor.)
Searle, Frederick B., Denver, Colo. Steam drifter mechanism for locomotives. No. 1,423,688; July 25.
Secretary of War, United States of America. (See Malby, Seth G., assignor.)
Sedelbauer, William J., Toledo, Ohio. Gasoline purifier. No. 1,423,970; July 25.
Selb, George A., Ilion, assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,423,741; July 25.
Selin, Harry A., Reading, Pa. Signal device for railway train-order semaphores. No. 1,423,689; July 25.
Semenza, Marco, Milan, Italy. Means for the suspension of electric contact wires. No. 1,423,582; July 25.
Sencsak, Anna, et al. (See Andrusyszyn, Frank, assignor.)
Seymour, Frederick S., Manchester, Iowa. Fuel feed for heating devices. No. 1,424,041; July 25.
Shallcross, Wilmer M., assignor to Northwestern Manufacturing Company, Milwaukee, Wis. Automatic regulator for coke ovens. No. 1,424,042; July 25.
Shapiro, Harry. (See Shapiro, Jacob and H.)
Shapiro, Jacob and H., New York, N. Y. Toy. No. 1,423,819; July 25.
Shaw, Helen A., executrix. (See Shaw, Walter.)
Shaw, Walter, deceased, Dedham, Mass., by H. A. Shaw, executrix, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,423,626; July 25.
Sheet Lathing Corporation. (See Potter, Stephen J., assignor.)
Shepherd, Sylvester B. (See Daniel, David C., assignor.)
Sherman, Alvin G., assignor to Detroit Vapor Stove Company, Detroit, Mich. Burner regulator. No. 1,423,627; July 25.
Sherman, John Q., Dayton, Ohio. Rotary punch. No. 1,423,690; July 25.
Shorter, Leo J. (See Cole, J. A., and Shorter.)
Sibley, Amos H., Shipbottom, and G. L. Van Allen, Newark, N. J., assignors to General Dental Mfg. Co. Tube tooth and crown. No. 1,423,628; July 25.
Sidebotham, Melvin H. (See La Bombard, L. E., and Sidebotham.)
Siegfried, Joseph, Lafayette, assignor of one-fourth to J. Held, West Lafayette, and one-fourth to C. Held, La Fayette, Ind. Window. No. 1,423,629; July 25.
Silverman, Harry A., New York, N. Y. Heater unit. No. 1,423,742; July 25.
Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Blank-handling mechanism. No. 1,423,630; July 25.
Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,423,743; July 25.
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
Skaife, Walter, London, England. Dog clutch. No. 1,423,631; July 25.
Skall, Max A., New York, N. Y. Protecting device for show windows. No. 1,424,043; July 25.
Slinger, Cornelius H., Hawthorne, N. J. Friction band for let off mechanism. No. 1,423,780; July 25.
Smith & Davis Mfg. Co. (See Isen, Alexander, assignor.)
Smith, Charles S. (See Hastings, H. J., and Smith.)
Smith, Curtis E., St. Joseph, Mo. Hoisting apparatus. No. 1,423,971; July 25.
Smith, Edwin C., et al., executors. (See Wardwell, Simon W.)
Smith, Henry L., Paterson, N. J. Steering-wheel lock for vehicles. No. 1,423,632; July 25.
Smith, Henry L., Paterson, N. J. Swimming harness. No. 1,423,633; July 25.
Smith, John J., Winnipeg, Manitoba, Canada. Combined tube expander and beading tool. No. 1,423,545; July 25.
Società Anonima Brevetti Beccari. (See Beccari, Giuseppe, assignor.) (Reissue.)
Sokolov, Jacob, assignor to Defiance Combination Auto Lock Corporation, Detroit, Mich. Lock for automobiles. No. 1,423,691; July 25.
Solack, Joseph, Scranton, Pa. Boat. No. 1,424,044; July 25.
Solhéid, Leo, Dusseldorf, Germany. Flushing apparatus. No. 1,423,634; July 25.
Somerville, George W., Wilmington, assignor of one-half to T. Nelson, Lebec, Calif. Tire protector. No. 1,423,692; July 25.
Sorensen, Andrew, Oakland, Calif. Washing machine. No. 1,423,972; July 25.
South Side Manufacturing Company, The. (See Hedberg, John A., assignor.)
Spain, William, Riverside, assignor of one-half to Corn Products Refining Company, Argo, Ill. Machine for applying ears to pails. No. 1,423,693; July 25.
Specialty Automatic Machine Company. (See La Bombard, L. E., and Sidebotham, assignors.
Speer, Jeannette L., Trappe, Md. Reversible glove. No. 1,423,546; July 25.
Spellman, Mabel R. (See Braxton, Elbert M., assignor.)
Sprague, George E., Cambria, Ill. Ratchet crank. No. 1,424,045; July 25.
Stafford, Frederick S., assignor to H. G. Seal, Chicago, Ill. Wheel. No. 1,423,694; July 25.
Stafford, J. B., et al. (See Macmanus, Augustus F. W., assignor.)
Staggers, William F., Mannington, W. Va. Antilock device for steering gears. No. 1,423,820; July 25.
Standard Coupler Company. (See Gallagher, Richard D., jr., assignor.)
Standard Oil Company. (See Jennings, James M., assignor.)
Standard Parts Company. (See Baker, Walter C., assignor.)
Standard Steel and Bearings Incorporated. (See Rockwell, Hugh M., assignor.)
Stanley Works, The. (See Parsons, Stuart W., assignor.)
Staples, Willard G., assignor of one-half to Timothy Harrington, Newburyport, Mass. Key holder. No. 1,424,121; July 25.
Starr, Charles E., Oakland, Calif., assignor to Perfecto Gear Differential Co., Seattle, Wash. Driving mechanism for motor vehicles. (Reissue.) No. 15,424; July 25.
St. Clair, Palmer, jr. (See Arnold, E. E., and St. Clair.)
St. Clair, Palmer, jr., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Heat exchanger or condenser. No. 1,423,695; July 25.
Steel Wheel Corporation. (See Bellamore, D. H., and Boak, assignors.)
Stephens-Adamson Mfg. Co. (See Kendall, Myron A., assignor.)
Steps, Robert A., assignor to Sugar Machinery Company, Los Angeles, Calif. Method of and means for washing centrifugals. No. 1,423,583; July 25.
Sterling, Don L., Dallas, Tex. Bank check and stub. No. 1,423,744; July 25.
Stevens and Company. (See Stevens, Frederick A., assignor.) (Reissue.)
Stevens, Arthur L., Chicago, Ill. Apparatus for and process of purifying gas. No. 1,423,696; July 25.

Jennings, James M., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Foam covering for preventing the evaporation of stored liquids. No. 1,423,720; July 25.

Jennings, James M., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Foam covering for preventing the evaporation of stored liquids. No. 1,423,721; July 25.

Jester, Marvin H., Philadelphia, Pa. Plaster-board support. No. 1,423,939; July 25.

Jett, George C., Watertown, assignor, by mesne assignments, of two-fifths to W. H. Stiemke, Milwaukee, Wis. Differential transmission mechanism. No. 1,423,940; July 25.

Jett, George C., assignor, by mesne assignments, of two-fifths to W. H. Stiemke, Milwaukee, Wis. Differential mechanism. No. 1,423,941; July 25.

Jewett, Harold H., Puente, Calif. Camp utensil. No. 1,423,612; July 25.

Johns, George M., St. Louis, Mo., assignor, by mesne assignments, to The Industrial Process Engineering Company. Distillation of material carrying a percentage of volatile matter. No. 1,423,527; July 25.

Johns-Manville Incorporated. (See Carson, Clarence, assignor.)

Johns-Manville Incorporated. (See Craighead, Magruder, assignor.)

Johnson, Adolph A., assignor of one-fifth to S. B. Hanes and one-fifth to D. A. Ricks, Hanes, N. C. Attachment for cone-winding machines. No. 1,424,100; July 25.

Johnson, Carl, San Francisco, Calif. Resilient wheel. No. 1,424,101; July 25.

Johnson, George, Brier Hill, Pa. Agitating and dumping bucket. No. 1,424,102; July 25.

Johnson, Harold R., Edgewood, assignor to Oscar B. Johnson Company, Cranston, R. I. Lingerie clasp. No. 1,424,103; July 25.

Johnson, Morrison R., Braymer, Mo. Nonskid chain. No. 1,423,564; July 25.

Johnson, Neal M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cutting apparatus. No. 1,424,133; July 25.

Johnson, Omar, Laramie, Wyo. Locomotive-engineer's seat. No. 1,423,855; July 25.

Johnson, Oscar B., Company. (See Johnson, Harold R., assignor.)

Jones, Joseph H., Cleburne, Tex. Demountable tire rim. No. 1,423,942; July 25.

Jones, Thomas B., Turlock, Calif. Piston ring. No. 1,423,948; July 25.

Jones, William L., Gallipolis, Ohio. Can-filling apparatus. No. 1,423,944; July 25.

Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. No. 1,423,613; July 25.

Joyce, Bryan P., Washington, D. C. Gun retracting mechanism. No. 1,424,105; July 25.

Joy, Bryon C. (See Blum, Hosmer, assignor.)

Joy, Marshall W., San Francisco, Calif. Visible fluid gauge. No. 1,424,104; July 25.

Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)

Jungmarker, Axel A. (See Gustafson, G., Jungmarker, and Caspersson.)

Jupp, Alfred E., and R. S. Crooks, assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Delivery mechanism for rolling mills. No. 1,423,856; July 25.

Kampmann, George A., Brainerd, Minn. Waterproofing device. No. 1,423,857; July 25.

Karpen, S., & Bros. (See Carter, C. B., and Coxe, assignors.)

Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Company, Fairmont, Minn. Throttle valve. No. 1,423,858; July 25.

Kellogg Switchboard and Supply Company. (See Yanochowski, George A., assignor.)

Kemp, William, St. Louis, Mo. Pressure or draft gauge. No. 1,423,565; July 25.

Kempin, Richard A. (See Hoppe, Oscar, assignor.)

Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Self-training belt conveyer. No. 1,423,528; July 25.

Kimman, Henry J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Connecting rod for drills, etc. No. 1,423,614; July 25.

King, Charles B. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)

King, George W., deceased, by S. King, executrix, C. B. King, B. Jacoby, H. E. Roush, Marion, Ohio, and G. Holmes, Danville, Ill., assignors to The Marion Steam Shovel Co., Marion, Ohio. Level indicator for platforms. No. 1,423,529; July 25.

King, Gustave A., Chicago, Ill. Toy. No. 1,423,566; July 25.

King, Sarah, executrix. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)

Kister, Herman, Elisabeth, N. J. Piston. No. 1,423,615; July 25.

Kistner, Herman, Elizabeth, N. J. Piston. No. 1,423,616; July 25.

Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 1,423,617; July 25.

Klocke, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 1,423,769; July 25.

Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Diestock. No. 1,423,945; July 25.

Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Shock absorber. No. 1,423,946; July 25.

Konigsberg, Lena. (See Konigsberg, Joseph, assignor.)

Kontorowitz, Carl, Rochester, N. Y. Drawer attachment for beds. No. 1,423,804; July 25.

Kopplin, Walter H. (See Kramer, J., Kuehne, and Kopplin.)

Kramer, Fritz. (See Bauer, G., and Kramer.)

Kramer, Julius, F. O. Kuehne, jr., and W. H. Kopplin, assignors to Pullman Davenport and Upholstered Furniture Company, Chicago, Ill. Power truck. No. 1,423,947; July 25.

Krum, Gustav, Duisburg-Beeck, Germany. Time recorder. No. 1,423,805; July 25.

Kucharski, Stanislaus, Charlottenburg, near Berlin, assignor to R. A. Hansemann, Berlin, Germany. Cinematographic film. No. 1,423,770; July 25.

Kuehne, Fred O., jr. (See Kramer, J., Kuehne, and Kopplin.)

Kuhn, James B., Cameron, W. Va. Automatic stop for moving-picture machines. No. 1,423,948; July 25.

Kunkel, Bert, Hart, Mich. Battery cover. No. 1,424,144; July 25.

La Bombard, Leon E., Chelsea, and M. H. Sidebotham, Cliftondale, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Top gluer. No. 1,423,567; July 25.

Lackey, Joseph C., Long Branch, N. J. Figure toy. No. 1,423,618; July 25.

Lacoste, Patrick, San Antonio, Tex. Sink strainer. No. 1,424,022; July 25.

La France, David J. (See De Witt, W. P., and La France.)

Lake, Fred O., Parke Lane, Va. Clothesline hanger. No. 1,423,530; July 25.

Lake, Harry M., and O. C. Betry, Los Angeles, Calif. Automobile theft signal. No. 1,424,106; July 25.

Lamb, Charles C., assignor of one-half to W. M. McEwen, Chicago, Ill. Driving mechanism for washing machines. No. 1,423,531; July 25.

Landgraf, Charley, and J. Hernacki, Chicago, Ill. Record wiper for phonographs. No. 1,424,023; July 25.

Langbaar, Louis, Cincinnati, Ohio. Ball bearing. No. 1,423,666; July 25.

Lansill, John S., assignor to Armstrong Cork Company, Lancaster, Pa. Heel gauge. No. 1,423,859; July 25.

Larkin, John J., St. Louis, Mo., and R. L. Gordon, assignors to Bell Pump Company, Bartlesville, Okla. Oil-well pump. No. 1,423,860; July 25.

Larsen, Berdie A., Pasadena, Calif. Envelope. No. 1,424,024; July 25.

Larson, Albert. (See Irons, G. C., and Larson.)

Lathrop, Harry D. (See Paulson, Walter H., assignor.)

Laughlin, Edward A., Port Arthur, Tex. Building construction. No. 1,423,949; July 25.

Lawson, John, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company. Automatic tension-controlling means for knitting machines. No. 1,424,025; July 25.

Lebzelter, William F., assignor, by mesne assignments, to E. M. Miller, Elizabethtown, Pa. Electric heating device. No. 1,423,806; July 25.

Lehr, Emmett S., Salt Creek, Wyo. Shock absorber. No. 1,423,667; July 25.

Leiken, Philip, Brooklyn, assignor to Peerless Smoking Jacket Company, New York, N. Y. Knickers. No. 1,423,668; July 25.

L'Enfant, Charles, New York, N. Y. Bill fold. No. 1,423,669; July 25.

Leon, Karl O., Stockholm, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Antifriction ball or roller bearing. No. 1,423,950; July 25.

Leonard, Charles H., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerator. No. 1,423,532; July 25.

Levene, Albert H., Philadelphia, Pa. Locking mechanism for shelving and other articles. No. 1,423,861; July 25.

Levy, William, Paterson, N. J. Traction lug. No. 1,423,568; July 25.

Lewis, Lloyd Y., Edgewood Borough, assignor to The Union Swith & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,423,862; July 25.

Litchfield, Paul W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Building tires of the solid type. No. 1,424,134; July 25.

Lockhart, James A., assignor to Fitho Plastic Board Company, Inc., Buffalo, N. Y. Wall board and plaster composition adapted thereto. No. 1,423,659; July 25.

Locomobile Company, The. (See Roos, Delmar G., assignor.)

Locomobile Company, The. (See Winblad, Niklas, assignor.)

Locomotive Stoker Company. (See Lower, Nathan M., assignor.)

Loman, John, Bristol, Conn. Watch-chain fastener. No. 1,424,139; July 25.

Loomis, Evarts G., Newark, N. J. Ball-winding machine. No. 1,423,807; July 25.

Loomis, Evarts G., Newark, assignor to The Okonite Company, Passaic, N. J. Loom. No. 1,423,619; July 25.

Loomis, Merton W. (See Newman, V. F., and Loomis.)

Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive stoker. No. 1,423,533; July 25.

Lowthorp, William M., Summertown, Tenn. Window lock. No. 1,424,107; July 25.

Lucabaugh, John W., near Hanover, Pa. Folding crate. No. 1,423,863; July 25.

Lucey Manufacturing Corporation. (See Zilen, Victor W., assignor.)

Lurtz, John, Chicago, Ill. Pedestal. No. 1,423,951; July 25.

Luthy, Joseph O., San Antonio, Tex. Hydrometer. No. 1,424,108; July 25.

Lyon, George A., Philadelphia, Pa. Resilient front buffer. No. 1,423,570; July 25.

Lyon, George A., Philadelphia, Pa. Automobile buffer. No. 1,423,571; July 25.

Lyon, George A., Philadelphia, Pa. Automobile buffer. No. 1,423,572; July 25.

Lyon, George A., Philadelphia, Pa. Resilient buffer. No. 1,423,573; July 25.

McBride, William S., Caldwell, Ohio. Drilling device. No. 1,424,109; July 25.

McCafferty, James E., Newark, N. J. Screw driver. No. 1,423,722; July 25.

McCloskey, Louis J. (See Phillips, R. F., and McCloskey.)

McClusky, Frank R., Canfield, Ohio. Manifolding sheet. No. 1,423,808; July 25.

McCracken, James D., Cincinnati, assignor to The United States Playing Card Company, Norwood, Ohio. Paper-conveying mechanism. No. 1,424,952; July 25.

McEwen, Willard M. (See Lamb, Charles C., assignor.)

McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Combined yarn clearer and tension device. No. 1,423,864; July 25.

McLeod, Nelson W., New York, N. Y. Pneumatic-tire casing. No. 1,423,771; July 25.

Maakestad, Micheal J., Chicago, Ill. Belt. No. 1,424,110; July 25.

Macmanus, Augustus F. W., assignor of one-tenth to J. E. Greer and J. B. Stafford, San Antonio, Tex. Medicinal apparatus. No. 1,424,111; July 25.

Maday, Joseph F. (See Durbin, Frederick A., assignor.)

Magrady, Joseph J., Chicago, Ill. Automatic latch for scale beams. No. 1,423,772; July 25.

Mailhiot, Alexander, Thorold, Ontario, Canada. Vehicle wheel. No. 1,423,574; July 25.

Malby, Seth G., U. S. Army, assignor to Secretary of War, U. S. Army, trustee. Impact fuse. No. 1,424,112; July 25.

Malitch, Charles, Hamilton, Ohio. Rail chair. No. 1,423,534; July 25.

Malloy, James T. Lowell, assignor of one-half to J. J. Henderson, Dracut, and one-half to S. R. Haines, Brooklive, Mass. Bobbin stripper for automatic looms. No. 1,423,670; July 25.

Marks, Paul J. and W. O., Rochester, N. Y. Photographic-view finder. No. 1,423,809; July 25.

Marks, Walter O. (See Marks, Paul J. and W. O.)

Marion Steam Shovel Co., The. (See King, George W. and C. S., Jacoby, Roush, and Holmes, assignors.)

Marr, Alexander W., Canton, Ohio. Quick-action double-gear jack. No. 1,423,671; July 25.

Martin, Haakon A., Christiania, Norway, assignor to The National Cash Register Company, Dayton, Ohio. Credit-account register. No. 1,423,953; July 25.

Martin, William A., Commercial Cross, Prince Edward Island, Canada. Adjustable wrench. No. 1,423,723; July 25.

Mascetti & Holley. (See Mascetti, Joseph, assignor.)

Mascetti, Joseph, assignor to Mascetti & Holley, Torrington, Conn. Derrick attachment for road rollers. No. 1,423,724; July 25.

Mathews, Fred, Chicago, Ill. Fastening device for automobile hoods. No. 1,423,773; July 25.

Matsui, Chiyosaburo. (See Sato, R., and Matsui.)

Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-aligning harp. No. 1,423,575; July 25.

Maussner, Frederick, Collingswood, N. J., assignor to Henry Wilhelm Company, Pittsburgh, Pa. Mattress. No. 1,423,954; July 25.

Mellott, Howard S., Morenci, Mich., assignor to The By-Products Recovery Co., Toledo, Ohio. Producing a condensed-milk product. No. 1,423,810; July 25.

Mesaros, John, Wheeling, W. Va. Tobacco pipe. No. 1,423,620; July 25.

Miller, Arthur, Columbus, Ohio. Garden tool. No. 1,423,865; July 25.

Miller, Benjamin F., Vienna, Va. Bag holder. No. 1,424,026; July 25.

Miller, Earl M. (See Lebzelter, William F., assignor.)

Miller, Frank E., New York, N. Y. Bone resector. No. 1,423,866; July 25.

Miller, Frank P., Meadville, Pa. Bracket. No. 1,423,535; July 25.

Miller, Henry L. (See Rush, Allan C., assignor.)

Miller, Stanley G., Chatham, Ontario, Canada. Automobile lock. No. 1,423,955; July 25.

Miller, Thomas S., South Orange, N. J. Towing vessel. No. 1,423,576; July 25.

Miller, William E., Savannah, Ga. Collapsible rim. No. 1,423,811; July 25.

Mills, Herbert S. (See Sandell, Henry K., assignor.)

Milton, John L., assignor, by mesne assignments, to The Teagle Company, Cleveland, Ohio. Magneto ignition system for internal-combustion engines. No. 1,423,672; July 25.

Mitchell, John E., and D. Parks, St. Louis, Mo. Heel-log-cutting machine. No. 1,423,621; July 25.

Mitchell, Loris E., and A. J. White, Cleveland, Ohio, assignors to General Electric Company. Tipless incandescent lamp and similar article. No. 1,423,956; July 25.

Mitchell, Loris E., and A. J. White, Cleveland, Ohio, assignors to General Electric Company. Stem-making machine. No. 1,423,957; July 25.

Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,423,958; July 25.

Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Frequency changer. No. 1,423,959; July 25.

Mitts & Merrill. (See Mitts, P. S., and Winston, assignors.)

Mitts, Philip S., and W. J. Winston, assignors to Mitts & Merrill, Saginaw, Mich. Cutting machine. No. 1,423,867; July 25.

Mohnacs, Audrey I., Passaic, N. J. Vegetable cutter. No. 1,423,960; July 25.

Mohr, Carl J. and U. J., Dayton, Ohio. Ladder platform and roof jack. No. 1,423,725; July 25.

Mohr, Carl J. and U. J., Dayton, Ohio. Paint-bucket holder. No. 1,423,726; July 25.

Mohr, Urban J. (See Mohr, Carl J. and U. J.)

Monahan, Henry, Meriden, Conn. Line holder. No. 1,423,868; July 25.

Monmonier, Joseph C., Catonsville, Md. Attachment for tobacco pipes. No. 1,423,869; July 25.

Moody, John R., Los Angeles, Calif. Hinge. No. 1,423,812; July 25.

Moore, John J., Batavia, N. Y. Vise. No. 1,423,774; July 25.

Moran, William F., Frederick, Md. Danger signal. No. 1,423,727; July 25.

Morck, Arne. (See Nordstrom, O., and Morck.)

Morgan, Edmund C., Morgan Park, Ill. Mining machine. No. 1,424,113; July 25.

Morgan, Edmund C., Morgan Park, Ill. Mining machine. No. 1,424,114; July 25.

Morgenthau, Bernard, New York, N. Y. Lock. No. 1,424,136; July 25.

Morrison, Max, Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey. Stranding machine. No. 1,423,776; July 25.

Morton, Frederic C., New Haven, Conn. Tire-making machine. No. 1,423,870; July 25.

Morton, Ira O., et al. (See Morton, William C., assignor.)

Morton, William C., assignor of one-third to J. P. Condon and one-third to I. O. Morton, Omaha, Nebr. Universal joint. No. 1,423,577; July 25.

Moser, Theodor, Berlin-Grunewald, Germany. Appliance for throwing mortar for the plastering of walls and the like. No. 1,423,536; July 25.

Mott, William P., Chicago, Ill. Spark-testing device for gasoline engines. No. 1,423,622; July 25.

Mount, Sidney C., Southall, England. Metal cask, drum, or the like. No. 1,423,673; July 25.

Müller, Gebhard, Munich, Germany. Urinal. No. 1,423,537; July 25.

Mulvey, Robert J., Chicago, Ill. Garment fastener. No. 1,423,813; July 25.

Mundt, Emil W., Bernardsville, N. J. Spade. No. 1,423,775; July 25.

Munson, Sweney, Fowler, Colo. Vehicle wheel. No. 1,423,674; July 25.

Murphy, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic clutch and reversing mechanism. No. 1,424,027; July 25.

Murphy, William J., Philadelphia, Pa. Cooking utensil. No. 1,423,961; July 25.

National Biscuit Company. (See Taylor, George A., assignor.)

National Cash Register Company, The. (See Martin, Haakon A., assignor.)

Neal, Burton, St. Louis, and G. H. Hebebrand, Kinloch, Mo. Driving mechanism for producing gyratory motion. No. 1,423,871; July 25.

Neal, Enoch E., Malden, Mass. Coal chute. No. 1,423,872; July 25.

Neathammer, Joseph A., Alhambra, Ill. Gear housing. No. 1,423,675; July 25.

Neighbour, Arthur G. L. and H. C. W., Brighton, Victoria, Australia. Two-cycle internal-combustion engine. No. 1,423,578; July 25.

Neighbour, Harry C. W. (See Neighbour, Arthur G. L. and H. C. W.)

Nelson, Towal. (See Somerville, George W., assignor.)

New Jersey Silk Machinery Company. (See Hines, Robert E., assignor.)

Newcomb, Romie J., Baltimore, Md. Manure loader. No. 1,423,676; July 25.

Newman, Victor F., and M. W. Loomis, Red Cliff, Colo. Concentrating table and method. No. 1,423,777; July 25.

Ericson, Louis E., assignor to W. S. Rench, San Diego, Calif. Price-tag holder. No. 1,423,655; July 25.
Erik, Emil. (See Berman, Henry, assignor.)
Esbelman, Oliver D., and W. F. Boast, Casper, Wyo. Saw. No. 1,423,843; July 25.
Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Frequency regulator. No. 1,423,518; July 25.
Etchebéhère, Jeanty, Biarritz, Basses-Pyrenees, France. Receiver and stench trap for sewers. No. 1,423,925; July 25.
Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Voltage-regulating system. No. 1,423,926; July 25.
Fairchild, Walter L., New York, N. Y. Vulcanizing pneumatic tubes. No. 1,423,760; July 25.
Fairchild, Walter L., New York, N. Y. Mold for pneumatic tubes and similar articles. No. 1,423,761; July 25.
Fairmont Gas Engine & Railway Motor Car Company. (See Kasper, Walter F., assignor.)
Falk, Andrew, Pittsburgh, assignor of three-tenths to M. Pfaff, Homestead, Pa. Fitting for railways and the like. No. 1,423,927; July 25.
Falk, Hilbert L., New Orleans, La., assignor to L. D. Wood, Philadelphia, Pa. Composition for coating metals for the purpose of permitting electric currents to operate by the action of light. No. 1,424,088; July 25.
Fallon, Andrew J., Chicago, Ill. Lock. No. 1,423,656; July 25.
Farkas, Eugene J., Detroit, assignor to Ford Motor Company, Highland Park, Mich. Detachable tread for tractor wheels. No. 1,423,519; July 25.
Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pneumatic cut-out device. No. 1,424,007; July 25.
Faultless Caster Company. (See Noelting, William H., assignor.)
Fenelon, Martin J., Chicago, Ill. Vehicle washing machine. No. 1,423,844; July 25.
Field, Crosby, Washington, D. C., assignor to Chemical Machinery Corporation, New York, N. Y. Drying process and apparatus. No. 1,423,928; July 25.
Findura, John, assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Rail-fastening device for beds and the like. No. 1,424,089; July 25.
Firth, Carrodus V. (See Hill, W. E., and Firth.)
Fischer, Charles W. (See Bailey, G. C., Fischer, and Schulze.)
Fish, Alfred E., Chicago, Ill. Shipping tag. No. 1,423,557; July 25.
Fisk Rubber Company, The. (See Fording, William G., assignor.)
Fitz-Empire Double Pivot Last Company. (See Schelter, John C., assignor.)
Fleischer, Paul W., Weehawken, N. J. Washer. No. 1,424,008; July 25.
Flis, Alexander, Milwaukee, Wis. Vegetable-stem remover and crusher. No. 1,423,790; July 25.
Fogel, Martin. (See Thomas, H. M., and Fogel.)
Ford Motor Company. (See Farkas, Eugene J., assignor.)
Ford Motor Company. (See Galamb, Joseph, assignor.)
Fording, William G., Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Method of and apparatus for forming a tire bead. No. 1,423,929; July 25.
Fort Pitt Bedding Company. (See Findura, John, assignor.)
Foss, Herbert D., Brookline, assignor to H. D. Foss & Company, Inc., Cambridge, Mass. Dispensing and display holder for confectionery. No. 1,423,845; July 25.
Foss, H. D., Company. (See Foss, Herbert D., assignor.)
Foster, Chester B., and F. H. Clement, deceased, Rochester, N. Y.; L. S. Clement, M. G. Clement, and B. H. Clement, executors; said executors assignors of the entire right of said F. H. Clement, deceased, to American Woodworking Machinery Company; said Foster assignor of his entire right to American Woodworking Machinery Company, Rochester, N. Y. Feeding chain for woodworking and other machines. No. 1,424,090; July 25.
Foster Machine Company. (See McKean, John O., assignor.)
Fountain, Claude R., Macon, Ga. Radioelectron oscillator. No. 1,424,091; July 25.
Fowler, George R., Marlboro, N. Y. Basket handle and lid fastener. No. 1,424,009; July 25.
Francisco, Cary, Porterville, Calif. Stitch clipper for scissors. No. 1,423,791; July 25.
Franzen, Charles F., Chaska, Minn. Clothesline support. No. 1,423,762; July 25.
Frederick, Bernhard O., Hibbing, Minn. Vehicle brake. No. 1,423,846; July 25.
Freedman, Benjamin H., New York, N. Y. Paper fastener. No. 1,423,520; July 25.
Freile, Bruce, Bogota, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone switchboard apparatus. No. 1,423,930; July 25.
French, Edward H., Columbus, Ohio. Making dry soluble lime-sulphur composition. No. 1,423,605; July 25.
Frost Manufacturing Company. (See Theleen, Oscar H., assignor.)
Fry, William P., Marble Falls, Tex. Milk or cream cabinet. No. 1,423,714; July 25.
Fuhrer, Daniel J., Leanna Township, Logan County, Ill. Truck attachment for automobiles. No. 1,423,931; July 25.
Fuller, Leonard F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Electrical oscillation generator. No. 1,424,141; July 25.
Gagg, Anton. (See Zoelly, H., and Gagg.)
Gains, Chester R., Colfax, assignor of one-half to S. A. Potts, Muscatine, Iowa. Call clock. No. 1,424,092; July 25.
Galamb, Joseph, Detroit, assignor to Ford Motor Company, Highland Park, Mich. Door buffer. No. 1,423,521; July 25.
Gallagher, Richard D., jr., Flatbush, assignor to Standard Coupler Company, New York, N. Y. Yielding resistance unit for car buffers. No. 1,423,522; July 25.
Garner, Perry I., Eureka, Kans. Corn planter. No. 1,423,932; July 25.
Gelnaw, John F., Cleveland, Ohio. Identification and coding system. No. 1,423,763; July 25.
General Automatic Scale Company, The. (See Schaper, Henry C., assignor.)
General Dental Mfg. Co. (See Sibley, A. H., and Van Allen, assignors.)
General Electric Company. (See Barringer, Laurence E., assignor.)
General Electric Company. (See Beman, Ralph, assignor.)
General Electric Company. (See Burnham, Joseph L., assignor.)
General Electric Company. (See Connely, Charles B., assignor.)
General Electric Company. (See Faccioli, Giuseppe, assignor.)
General Electric Company. (See Haworth, Lawrence A., assignor.)
General Electric Company. (See Mitchell, L. E., and White, assignors.)
General Electric Company. (See Mittag, Albert H., assignor.)
General Electric Company. (See Murphy, Edwin J., assignor.)
General Electric Company. (See Weintraub, Ezechiel, assignor.)
General Ordnance Corporation. (See Denning, Joseph M., assignor.) (Reissue.)
General Rubber Company. (See Hopkinson, Ernest, assignor.)
Gibbons, Sherwin, et al. (See Ziegler, George J., assignor.)
Gibson, Ralph E., and H. Nicoll, Liverpool, England. Discharge chute. No. 1,424,010; July 25.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Sled. No. 1,424,011; July 25.
Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Oil-level-indicating attachment for crank cases. No. 1,423,558; July 25.
Gilman, John A., American Lake, Wash. Excavator. No. 1,424,093; July 25.
Gordon, Robert L. (See Larkin, J. J., and Gordon.)
Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
Goodrich, B. F., Company, The. (See Hennessy, James F., assignor.)
Goodyear Tire & Rubber Company, The. (See Johnson, Neal M., assignor.)
Goodyear Tire & Rubber Company, The. (See Litchfield, Paul W., assignor.)
Goodyear Tire & Rubber Company, The. (See Orr, Clifford B., assignor.)
Gowdy, Edward J., Buffalo, N. Y. Printing press. No. 1,423,792; July 25.
Grand Rapids Refrigerator Company. (See Leonard, Charles H., assignor.)
Greene, Herbert M., Portland, Oreg. Cooking grain and a product for effecting the same. No. 1,424,132; July 25.
Greenfield, Benjamin, Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company. Oil-fired steam boiler. No. 1,424,764; July 25.
Green Engineering Company. (See Poppenhusen, Herman A., assignor.)
Green, Paul G., Marshall, Mich. Pipe wrench. No. 1,423,793; July 25.
Greer, J. E., et al. (See Macmanus, Augustus F. W., assignor.)
Gregory, Thomas, Cleveland, Ohio. Hairpin. No. 1,423,606; July 25.
Groat, Daniel F., Fort Dodge, Iowa. Tire operated multiple air pump. No. 1,423,607; July 25.
Grossmann, Robert, assignor to The Will & Baumer Candle Company, Syracuse, N. Y. Candle-making machine. No. 1,423,608; July 25.
Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
Grove, Frank H., assignor to The Banner Machine Company, Columbiana, Ohio. Trimming device. No. 1,424,012; July 25.
Grow, Thomas S., Allentown, Pa. Brush for talking machines. No. 1,423,523; July 25.
Grubenmann, Max, Zurich, assignor to Aluminum-Schweisswerk A.-G., Schlieren, Switzerland. Heat-exchange device for treating milk, worts, and the like. No. 1,423,794; July 25.

Grudzinski, Stanislaw. (See Pierzikowski, W., and Grudzinski.)
Guerrlich, Frederick C., Stamford, Conn. Fluid-pump mechanism. No. 1,423,559; July 25.
Guggenbuehler, Carl, Newark, N. J. Tool for facilitating the adjustment of the driving shoes of locomotives. No. 1,423,795; July 25.
Guggenheim, Solomon D. (See Benjamin, D. H., and Curtis, assignors.)
Gunn, Robert W., and W. A. S. Thompson, Los Angeles, Calif. Valve seat. No. 1,424,094; July 25.
Gustafson, Gunnar, Avesta, A. A. Jungmarker, Stockholm, and K. A. Caspersson, Engelsberg, Sweden. Producing silicon-manganese-chrome steel. No. 1,423,847; July 25.
Haines, Charles B., Indianapolis, Ind. Water softener. No. 1,423,657; July 25.
Haines, Samuel R., et al. (See Malloy, James T., assignor.)
Haislip, Pliny L., Washington, D. C. Electric-lighting fixture. No. 1,424,095; July 25.
Hale, Methel F., Grover Hill, Ohio. Creeper bib. No. 1,424,013; July 25.
Hall, John G., Toronto, Ontario, Canada. Milk bottle. No. 1,423,560; July 25.
Hall, Orrin B., Oatville, Kans. Grain carrier. No. 1,423,609; July 25.
Hamann, Friedrich W. H., Hamburg, Germany. Car coupling. No. 1,423,796; July 25.
Hand, Louis H. B., Harvey, Ill. Spring guard for vehicles. No. 1,424,014; July 25.
Hanes, S. B., et al. (See Johnson, Adolph A., assignor.)
Hanlon, John H., Somerville, Mass. Drifting valve. No. 1,423,797; July 25.
Hansemann, Richard A. (See Kucharski, Stanislaus, assignor.)
Hansen, Charles E., Providence, R. I. Pencil attachment. No. 1,424,096; July 25.
Hansen, Sofus E., Seattle, Wash. Device for launching ring life buoys. No. 1,423,561; July 25.
Harder, Harry E. (See Newsom, J. N., and Harder.)
Harper, Joseph H., Springfield, Ohio. Comm. No. 1,423,848; July 25.
Hartman, Harry B., assignor to Electric Water Sterilizer and Ozone Company, Scottdale, Pa. Ozone generator. No. 1,423,658; July 25.
Harrington, Timothy. (See Staples, Willard G., assignor.)
Harrison Radiator Corporation. (See Wolfe, Arthur P., assignor.)
Hassel, Nels H., Los Angeles, Calif. Plant protector. No. 1,423,659; July 25.
Hastings, Charles B., New York, N. Y. Loading and unloading apparatus. No. 1,423,765; July 25.
Hastings, Herbert J., and C. S. Smith, East Twickenham, England. Mechanical toy operated by gramophones. No. 1,424,015; July 25.
Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,423,849; July 25.
Haworth, Lawrence A., Dalton, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,424,016; July 25.
Hayes, John, Belle Vernon, Pa. Aeroplane. No. 1,423,610; July 25.
Hayes, John, Belle Vernon, Pa. Aeroplane. No. 1,423,611; July 25.
Heatile, William C., Beverly, Mass. Clamp. No. 1,423,933; July 25.
Hebebrand, George H. (See Neal, B., and Hebebrand.)
Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating sludge acids. No. 1,423,766; July 25.
Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating sludge acids. No. 1,423,767; July 25.
Heckler, William P., Napoleon, Ohio. Fencepost. No. 1,423,934; July 25.
Hedberg, John A., assignor to The South Side Manufacturing Company, Denver, Colo. Animal trap. No. 1,423,715; July 25.
Hedges, Edward E., New York, N. Y. Distilling shale. No. 1,423,716; July 25.
Held, Christ, et al. (See Siegfried, Joseph, assignor.)
Held, Joseph, et al. (See Siegfried, Joseph, assignor.)
Hellstrom, Carl R., Minneapolis, Minn. Bag holder. No. 1,424,017; July 25.
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. No. 1,423,660; July 25.
Hemphill Company. (See Bosworth, George P., assignor.)
Hemphill Company. (See Lawson, John, assignor.)
Henderson, George K., assignor to International Printing Company, Indianapolis, Ind. Carton sealer. No. 1,424,018; July 25.
Henderson, John J., et al. (See Malloy, James T., assignor.)
Henderson, Olive G., Detroit, Mich. Desk and chair. No. 1,423,661; July 25.
Henggi, Lewis O., Oakmont, Pa., assignor to The P. & M. Company, Chicago, Ill. Creep check. (Reissue.) No. 15,421; July 25.
Hennessy, James F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Fabric-cutting apparatus. No. 1,423,798; July 25.
Hennessy, James J., New York, N. Y. Journal lubricator. No. 1,423,850; July 25.
Hennessy, James J., New York, N. Y. Journal lubricator. No. 1,423,851; July 25.
Henry Wilhelm Company. (See Mausener, Frederick, assignor.)
Herge, Frank. (See Cline, M. L., and Herge.)
Herman, John, Los Angeles, Calif. Water-cooled bearing. No. 1,424,097; July 25.
Herman, Karl, Chester, Pa. Pump. No. 1,423,852; July 25.
Hernackl, John. (See Landgraf, C., and Hernackl.)
Hetherington, Harry C., and J. M. Braham, Washington, D. C. Making dicyandiamide. No. 1,423,799; July 25.
Hewitt, Edward R., Midvale, N. J. Radiator for vehicles. No. 1,423,662; July 25.
Heywood-Wakefield Company. (See Brown, Charles A., assignor.)
Hibbard, Rhuel B., D. J. Watrous, and J. G. Bassette, assignors to Airdry Corporation, Groton, N. Y. Drying apparatus. No. 1,423,800; July 25.
Hicks, Elias S., Yakima, Wash. Current motor. No. 1,423,717; July 25.
Hill, Nikalai, Park Falls, Wis. Car-door lock. No. 1,423,562; July 25.
Hill, William E., Philadelphia, and C. V. Firth, Ashbourne, assignors to Porter Brothers Textile Company, Philadelphia, Pa. Woven tubular fabric. No. 1,423,524; July 25.
Hill, William H., Manati, P. R. Kerosene vaporiser. No. 1,424,142; July 25.
Hines, Robert E., New York, N. Y., assignor to New Jersey Silk Machinery Company, Paterson, N. J. Spinning, doubling, and twisting machine. No. 1,423,801; July 25.
Hively, Hal H., Tar River, Okla. Sectional tire rim. No. 1,424,019; July 25.
Hoe, R., and Co. (See Baker, James N., assignor.)
Hodgson, Carl W., Chicago, Ill. Mixing and conveying apparatus. No. 1,423,853; July 25.
Hofstatter, Ernest W., Nyack, N. Y. Ear trumpet for truck drivers. No. 1,423,802; July 25.
Holdaway, William S., Salt Lake City, Utah. Pump. No. 1,423,768; July 25.
Holmes, Grant. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)
Hopkins, Richard F., and O. F. Devold, Bartlesville, Okla. Pump. No. 1,423,935; July 25.
Hopkinson, Ernest, New York, N. Y., assignor to General Rubber Company. Treating rubber-containing latex. No. 1,423,525; July 25.
Hopkinson, Ernest, New York, N. Y., assignor to General Rubber Company. Product obtained from rubber-containing latex. No. 1,423,526; July 25.
Hopkinson, Ernest, New York, N. Y. Production of fabrications of rubber and filamentary material and products obtained therefrom. No. 1,424,020; July 25.
Hoppe, Oscar, assignor to R. A. Kempin, Rorschach, Switzerland. Rigid milling machine. No. 1,423,563; July 25.
Hooker Electrochemical Company. (See Stuart, Kenneth E., assignor.)
Horne, James. (See Dawson, A. T., and Horne.)
Howard, Harry G., Greenwich, N. Y. Tractor wheel. No. 1,424,098; July 25.
Howard, Karl S., assignor to Commonwealth Steel Company, St. Louis, Mo. Sand feeder. No. 1,423,854; July 25.
Hubbard, James R., Duncan, Okla. Breast-actuating mechanism for cotton gins. No. 1,424,021; July 25.
Huff, Daland & Company. (See Post, George B., assignor.)
Huffman, Samuel C., Lincoln, Nebr. Storage file. No. 1,423,936; July 25.
Hunt, Nannie K., Adolphus, Ky. Collapsible shipping container. No. 1,424,099; July 25.
Hurst, William C., New York, N. Y. Steering wheel for aeroplanes. No. 1,424,143; July 25.
Hutchinson, Harmer D., et al. (See Craft, Clarence H., assignor.)
Ideal Rim Tool Co. (See Peterson, Peter R., assignor.)
Ilford Limited. (See Agnew, A. J., and Renwick, assignors.)
Illig, George D., Depew, N. Y. Wrench. No. 1,423,803; July 25.
Industrial Process Engineering Company, The. (See Johns, George M., assignor.)
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
International Printing Company. (See Henderson, George K., assignor.)
Irons, George C., McKittrick, and A. Larson, Bakersfield, Calif. Tubing bleeder. No. 1,423,937; July 25.
Isachson, Norman, Albion, Idaho. Internal-combustion engine. No. 1,423,718; July 25.
Izen, Alexander, assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Crib. No. 1,423,663; July 25.
Izen, Alexander, assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Bed corner. No. 1,423,664; July 25.
Izen, Alexander, assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Bed corner. No. 1,422,665; July 25.
Jackson, Walter M., New York, N. Y. Slitting attachment for cigars. (Reissue.) No. 15,422; July 25.
Jacobs, Nicholas W., Stanton, Nebr. Number plate for motor-vehicle fuel tanks. No. 1,423,938; July 25.
Jacoby, Benjamin. (See King, George W., and C. S. Jacoby, Roush, and Holmes.)
Jenninga, James M., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Stable foam for preventing the evaporation of stored liquids. No. 1,423,719; July 25.

Beutel, Frederick C., et al. (See Ziegler, George J., assignor.)
Bifiex Products Company. (See Pancoast, W. G., and Grotenhuis, assignors.)
Bingman, John, Mount Tabor, Wis. Attachment for hydrocarbon containers. No. 1,424,068; July 25.
Blackmar, Fred W., assignor of one-half to L. M. Blackmar, Providence, R. I. Wrench. No. 1,424,069; July 25.
Blackmar, Lewis M. (See Blackmar, Fred W., assignor.)
Blakemore, Arthur H., St. Louis, Mo. Folding crate. No. 1,423,596; July 25.
Blair, James B., deceased, Decatur, Ill.; O. M. Blair, administratrix. Automobile direction indicator. No. 1,424,070; July 25.
Blair, Ora M., administratrix. (See Blair, James B.)
Bliss, E. W., Company. (See Klocke, William, assignor.)
Blum, Hosmer, San Francisco, assignor of one-half to B. C. Joy, Los Angeles, Calif. Meter. No. 1,423,597; July 25.
Blyburg, Ogden F., St. Joseph, Mich. Shock absorber. No. 1,423,904; July 25.
Bonk, Thomas I. S. (See Bellamore, D. H., and Boak.)
Boast, William F. (See Eshelman, O. D., and Boast.)
Boerner, Arno, Scheveningen, Netherlands. System or method of feeding combustion engines for airships. No. 1,423,987; July 25.
Boever, Alexis. (See Dutoit, Paul, assignor.)
Boge, Adolf, Solingen, Germany. Lock. No. 1,423,553; July 25.
Bolleau, Walter K., Baltimore, Md., assignor to Pittsburgh Oil Refining Corporation. Transmission and motor oil. No. 1,423,512; July 25.
Booty, Stanley S., London, England. Box and the like. No. 1,424,071; July 25.
Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Glove and making same. No. 1,424,072; July 25.
Bowler, Elizabeth, Westport, S. Dak. Garment-supporting device. No. 1,423,749; July 25.
Bowles, John H., New York, N. Y. Collapsible tire rim. No. 1,424,073; July 25.
Boyce, Edward C., Washington, D. C. Vending apparatus. No. 1,424,074; July 25.
Boykin, Burwell, jr., Beaumont, Tex. Traveling block. No. 1,424,075; July 25.
Brautigam, Anthony F., assignor of one-half to A. M. Rudiger, Buffalo, N. Y. Carrier for bottles, etc. No. 1,424,076; July 25.
Braddy, Lewis P., San Francisco, Calif. Identification fender for vehicles. No. 1,423,905; July 25.
Braham, Joseph M. (See Hetherington, H. C., and Braham.)
Braxton, Elbert M., Fort Worth, assignor of one-half to M. R. Spellman, Dallas, Tex. Gas producer and process. No. 1,424,077; July 25.
Brediceanu, Calus. (See Vuia, Trajan, assignor.)
Brehmer, Herman C., Philadelphia, Pa., assignor to H. W. Butterworth and Son's Company. Valve device. No. 1,423,988; July 25.
Brehmer, Herman C., Philadelphia, Pa., assignor to H. W. Butterworth & Son's Co. Atomiser. No. 1,423,989; July 25.
Bremer, Alvin L. (See Bremer, Martin L. and A. L.)
Bremer, Martin L. and A. L., Elberon, Iowa. Bin-filling shut-off. No. 1,423,990; July 25.
Brettschneider, Josephine, St. Paul, Minn. Flower receptacle. No. 1,423,906; July 25.
Brink, Carl A. (See Adell, E., and Brink.)
Broadway, William, and T. C. Pledger, Oklahoma, Okla.; said Broadway assignor to said Pledger. Rim fastener. No. 1,424,078; July 25.
Brombacher, Julius, Los Angeles, Calif. Pilot-light burner. No. 1,423,750; July 25.
Brooks, George W., Topeka, Kans. Screed holder. No. 1,423,991; July 25.
Brown, Charles A., Gardner, assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass. Combined hinge and stop for desk lids and the like. No. 1,423,513; July 25.
Brown, Frederick S., Torrington, Conn. Soap-holding brush. No. 1,423,992; July 25.
Brown, William S., Wallace, Idaho. Ore-separating device. No. 1,423,751; July 25.
Bruun, Sigurd, Fredericksberg, Denmark. Mold for concrete beams. No. 1,423,708; July 25.
Buchan, George, sr., Mansfield, Ohio. Chute support. No. 1,423,643; July 25.
Buffalo Foundry & Machine Co. (See Engel, Godfrey, sr., assignor.)
Buitrago, Rafael D., New York, N. Y. Suction duster. No. 1,423,993; July 25.
Buley, Olga E., London, England. Hair slide. No. 1,423,644; July 25.
Bullinger, Frederic H., Yonkers, N. Y., assignor to Ward Leonard Electric Company. Electric controlling apparatus. No. 1,423,907; July 25.
Bunde, William, Rochester, N. Y. Scooter car. No. 1,423,994; July 25.
Bunnell, Horry C., Westport, N. Y. Convertible chair. No. 1,423,995; July 25.
Burchard, Edith R. C., Little Compton, R. I. Robe for children's gocarts and invalid chairs. No. 1,423,908; July 25.
Burford, Oliver L., and H. De Bardeleben, Ensley, Ala. Winding shaft and chain guard for dump cars. No. 1,423,752; July 25.
Burnham, Joseph L., Schenectady, N. Y., assignor to General Electric Company. Arc barrier for dynamo-electric machines. No. 1,423,996; July 25.
Burris, James N., deceased, by H. E. Voss, administrator, Davenport, Iowa. Nonskid attachment for vehicle tires. (Reissue.) No. 15,418; July 25.
Butler, Frank L., Chicago, Ill. Switch-supporting attachment for electric fixtures. No. 1,423,645; July 25.
Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,423,646; July 25.
Butterfield, Maurice A., Lowell, Mass. Circle-cutting tool. No. 1,423,828; July 25.
Butterworth, H. W., and Son's Company. (See Brehmer, Herman C., assignor.)
Butusov, William P., Norfolk, Va. Power plant. No. 1,423,514; July 25.
Buxton, Incorporated. (See Buxton, Warner R., assignor.)
Buxton, Warner R., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Key case. No. 1,423,909; July 25.
By-Products Recovery Co., The. (See Mellott, Howard S., assignor.)
Callier, Felix J., Brush, Colo. Automatic focusing device for enlarging cameras. No. 1,423,997; July 25.
Camp, Arthur E., Binghamton, N. Y. Scaffold carrier. No. 1,423,998; July 25.
Campbell, Howard B., Erie, Pa. Letter sheet. No. 1,423,910; July 25.
Campbell, Philip A., Vancouver, British Columbia, Canada. Lawn mower. No. 1,423,999; July 25.
Canell, Charles E., Portland, Oreg., assignor of one-half to E. T. White, Everett, Wash. Poultry feeder. No. 1,424,079; July 25.
Cardwell, Allen D., Rockville Center, assignor to Western Electric Company, Incorporated, New York, N. Y. Portable electric lantern. No. 1,423,911; July 25.
Carlson, Julius, Brooklyn, N. Y. Cap. No. 1,423,829; July 25.
Carpenter, Charles C., assignor to The Samuel C. Tatum Company, Cincinnati, Ohio. Filing tray or drawer. No. 1,424,080; July 25.
Carson, Clarence, New Rochelle, N. Y., assignor to Johns-Manville Incorporated. Hub odometer. No. 1,424,000; July 25.
Carter, Carnie B., and A. E. Coxe, Pittsburgh, Pa., assignors, by mesne assignments, to S. Karpen & Bros. Producing active methylene bodies. No. 1,423,753; July 25.
Carter, Wallace E., Dover, England. Convertible perambulator and push chair. No. 1,423,912; July 25.
Carter, William C., St. Louis, Mo. Fuel-supply apparatus for internal-combustion engines. No. 1,423,913; July 25.
Caspersson, Karl A. (See Gustafson, G., Jungmarker, and Caspersson.)
Catterall, Albert B., Ottumwa, Iowa. Dust cap. No. 1,423,515; July 25.
Central Union Trust Company of New York. (See Radford, George S., assignor.)
Cerf, Lester, Brooklyn, N. Y. Heel fastener. No. 1,423,787; July 25.
Charter, James A., Chicago, Ill. Metal disk wheel. No. 1,423,598; July 25.
Chemical Construction Company. (See Hechenbleikner, I., and Oliver, assignors.)
Chemical Machinery Corporation. (See Field, Crosby, assignor.)
Chennour, John S. (See Schultz, John M., assignor.)
Chicago Car Seal Company. (See Rogers, Harry R., assignor.)
Chicago Pneumatic Tool Company. (See Kimman, Henry J., assignor.)
Chicago Railway Equipment Company. (See Williams, Charles H., assignor.)
Chisholm, Clifton, assignor, by mesne assignments, to The American Multigraph Company, Cleveland, Ohio. Envelope-feeding mechanism. (Reissue.) No. 15,419; July 25.
Christensen, Carl V. J., et al., executors. (See Wardwell, Simon W.)
Christensen Machine Company. (See Christensen, Martin, assignor.)
Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Delivery mechanism for signature-stitching machines. No. 1,423,647; July 25.
Christensen, Sander I., Willows, Calif. Rice-preservation process. No. 1,423,830; July 25.
Christian, Bert W., Delavan, Wis. Tool. No. 1,424,001; July 25.
Christie, Lewis D., Nichols, Conn., assignor to A. Oppenheim, New York, N. Y. Hose-supporter button and making same. No. 1,423,599; July 25.
Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical arc welding. No. 1,423,914; July 25.
Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Desulphurizing oil. No. 1,423,710; July 25.
Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Desulphurizing oil. No. 1,423,712; July 25.
Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Producing gasoline and the like. No. 1,423,709; July 25.
Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Obtaining sulphur compounds from mineral oils and the like. No. 1,423,711; July 25.

Clark, James, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Divided ring for pipe couplings and the like. No. 1,423,754; July 25.
Clement, Benj. H., et al., executors. (See Foster, C. B., and Clement.)
Clement, Frank H. (See Foster, C. B., and Clement.)
Clement, Louisa S., et al., executors. (See Foster, C. B., and Clement.)
Clement, Mary G., et al., executors. (See Foster, C. B., and Clement.)
Cline, Martin L., and F. Herge, Malinta, Ohio. Clutch-lever retainer. No. 1,424,081; July 25.
Clopton, Mortimer L., Wichita Falls, Tex. Ring gauge. No. 1,424,082; July 25.
Cochrane, Charles H., New York, N. Y. Means for controlling the flow of fluids. No. 1,423,831; July 25.
Cole, Albert L., Auburndale, assignor of one-fourth to F. J. V. Dakin, Newtonville, and one-fourth to F. A. Tilton, South Braintree, Mass. Shut-off valve for air-brake pipes. No. 1,424,083; July 25.
Cole, Glaudel, Poughkeepsie, N. Y. Clothesline adjuster. No. 1,424,084; July 25.
Cole, John A., and L. J. Shorter, Coventry, England. Piston. No. 1,424,002; July 25.
Commonwealth Steel Company. (See Howard, Karl S., assignor.)
Condon, Joseph P., et al. (See Morton, William C., assignor.)
Connely, Charles B., Scotia, N. Y., assignor to General Electric Company. Control system. No. 1,424,003; July 25.
Cooley, Fred W., Minneapolis, Minn. Tone modifier for phonographs. No. 1,423,832; July 25.
Corn Products Refining Company. (See Spain, William, assignor.)
Coxe, Albert E. (See Carter, C. B., and Coxe.)
Craft, Clarence H., assignor of one-third to H. D. Hutchinson and one-third to J. Q. Adams, Uniontown, Pa. Electrically-lighted motor meter. No. 1,423,755; July 25.
Craighead, Magruder, Hartsdale, N. Y., assignor to Johns-Manville Incorporated. Fastening means and applying same. No. 1,423,833; July 25.
Crane, Adam L., Fort Mill, S. C. Cement tie and rail fastener. No. 1,423,600; July 25.
Crawford, Franklin E., Winchester, assignor to Bankers Electric Protective Association, Boston, Mass. Detector for alarm system. No. 1,423,601; July 25.
Crozan, Charles W., Bangor, Me. Latch release for tapes. No. 1,424,085; July 25.
Crosbaw, Ralph S., Grand Rapids, Mich. Tail light and number plate. No. 1,423,648; July 25.
Crooks, Roxie S. (See Jupp, A. E., and Crooks.)
Crum, John M., Johnstown, Pa. Electric power jack. No. 1,423,834; July 25.
Cummings, Andrew S., South Tacoma, Wash. Combined lock and alarm. No. 1,423,554; July 25.
Cummings, Everett C., Electra, Tex. Pump. No. 1,424,004; July 25.
Curtis, Arthur R. (See Benjamin, D. H., and Curtis.)
Dakin, Francis J. V., et al. (See Cole, Albert L., assignor.)
Daniel, David C., Apex, assignor of one-half to S. B. Shepherd, Raleigh, N. C. Fertilizer distributor. No. 1,423,649; July 25.
Danziger, Abraham, New York, N. Y. Auxiliary sheet gauge for platen presses. No. 1,423,825; July 25.
Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic-tire tread. No. 1,424,131; July 25.
David, Leoncio, Washington, D. C. Electric hair clipper. No. 1,423,756; July 25.
Davidson, Charles E. (See Norlander, Charles A., assignor.)
Davis, Arthur J., Cedar Rapids, Iowa. Stock feeder. No. 1,423,915; July 25.
Davis, James, Gananoque, Ontario, Canada. One-man automobile top. No. 1,423,916; July 25.
Dawson, Arthur T., Westminster, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, England. Ordnance. No. 1,423,757; July 25.
De Bardeleben, Hubert. (See Burford, O. L., and De Bardeleben.)
De Borggrave, Felix, Chicago, Ill. Vehicle wheel and resilient tire therefor. No. 1,424,086; July 25.
Decker, Lemuel B., Kenogami, Quebec, Canada. Paper-stock regulator. No. 1,423,555; July 25.
Declave, Joseph, Liege, Belgium. Small arm comprising a striker sliding in a breech bolt. No. 1,423,836; July 25.
Decuir, Joseph O., Houston, Tex. Oil burner. No. 1,423,650; July 25.
Defiance Combination Auto Lock Corporation. (See Sokoloy, Jacob, assignor.)
De Gowin, Isaac, assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Ball. No. 1,423,837; July 25.
De Gowin, Isaac, assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Method and apparatus for covering balls. No. 1,423,838; July 25.
De Jaco, Charles A., Newport, Ky. Heating drum. No. 1,423,651; July 25.
Del'Marmol, Charles J., Frankford, Pa. Reproducer. No. 1,424,087; July 25.
Denning, Joseph M., Denver, Colo., assignor, by mesne assignments, to General Ordnance Corporation, New York, N. Y. Tractor. (Reissue.) No. 15,420; July 25.
Dentists' Supply Company. (See Duffy, Charles J., assignor.)
Des Roches, Hilton H., assignor of one-half to M. J. Scott, Butte, Mont. Detachable bit for drills. No. 1,423,713; July 25.
Detroit Vapor Stove Company. (See Sherman, Alvin G., assignor.)
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Dress guard. No. 1,423,602; July 25.
Devold, Orian F. (See Hopkins, R. F., and Devold.)
De Witt-La France Co. (See De Witt, W. P., and La France, assignors.)
De Witt, William P., Somerville, and D. J. La France, assignors, by mesne assignments, to De Witt-La France Co., Cambridge, Mass. Pencil. No. 1,423,603; July 25.
Diamant, Sidney, New York, N. Y. Punch and die set. No. 1,423,917; July 25.
Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Chicago, Ill. Tape reel. No. 1,423,516; July 25.
Dietzgen, Eugene, Company. (See Dieckmann, Carl F., assignor.)
Dick, Joseph C. F., Stockton, Calif. Driving mechanism for tractors. No. 1,423,758; July 25.
Dillingham Manufacturing Company. (See Barrows, Harry E., assignor.)
Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Apparatus for controlling the flow of water to boilers. No. 1,423,759; July 25.
Doble Laboratories. (See Doble, John A., assignor.)
Dodge Brothers. (See Dodge, John F., assignor.)
Dodge, John F., deceased, by M. R. Dodge, Detroit, and H. E. Dodge, Grosse Pointe, special administrators, assignors to Dodge Brothers, Detroit, Mich. Wheel and making the same. No. 1,423,556; July 25.
Dodge, Horace E., et al., administrators. (See Dodge, John F.)
Dodge, Matilda R., et al, administrators. (See Dodge, John F.)
Doherty Research Company. (See Greenfield, Benjamin, assignor.)
Doloukhanoff, Michel, Charlottenburg, Germany. Device for automatically controlling the output of electrical plants. No. 1,423,839; July 25.
Drefs, Edward, Milwaukie, Oreg. Bed-bottom fabric. No. 1,423,918; July 25.
Dreher, Frank A., Dover, Ohio. Connecting rod. No. 1,423,788; July 25.
Dresser, S. R., Manufacturing Company. (See Clark, James, assignor.)
Drum, Charles, California, Pa. Automatic gate mechanism for elevator and mine shafts. No. 1,423,919; July 25.
Drury, Frank, Aintree, Liverpool, assignor to G. H. Williamson & Sons, Limited, Worcester, England. Manufacture of blanks of sheet metal. No. 1,424,005; July 25.
Duff, Vern W., Moberly, Mo. Device for holding engineers' time tables. No. 1,423,920; July 25.
Duffy, Charles J., Yonkers, N. Y., assignor to Dentists' Supply Company. Mold guide for artificial teetb. No. 1,423,921; July 25.
Durbin, Frederick A., assignor of one-half to J. F. Mnday, Evansville, Ind. Permutation padlock. No. 1,423,840; July 25.
Dutoit, Paul, assignor of one-third to A. Boever, Lausanne, Switzerland. Manufacture of brass. No. 1,423,922; July 25.
Eastern Tool & Manufacturing Company. (See Anderson, Carl E., assignor.)
Eckert, James C., jr., Stamford, Conn. Diving apparatus. No. 1,423,923; July 25.
Edmondson, Ralph S., Elizabeth, N. J., assignor to American Abrasive Metals Company. Plate for resisting flame and cutting tools. No. 1,423,652; July 25.
Edwards, Edwin L., assignor to Edwards X-Ray Corporation, Indianapolis, Ind. Adjustable X-ray tube holder. No. 1,423,924; July 25.
Edwards, Karl B., Eltham, London, England. Manufacture of arsenical compounds. No. 1,424,006; July 25.
Edwards, William W., Los Angeles, Calif. Bumper-bar fender. No. 1,423,604; July 25.
Edwards X-Ray Corporation. (See Edwards, Edwin L., assignor.)
Eickoff, Henry J., Hamilton, Ontario, Canada. Envelope. No. 1,423,653; July 25.
Einsiedel, Stanley F. E. (See Robbins, G. A. H., and Einsiedel.)
Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B., assignor.)
Elmendorf, Armin, Madison, Wis. Tearing tester. No. 1,423,841; July 25.
Elmendorf, Armin, Chicago, Ill. Tearing tester. No. 1,423,842; July 25.
Emerson Phonograph Company. (See Emerson, Victor H., assignor.)
Emerson, Victor H., New York, N. Y., assignor to Emerson Phonograph Company, Inc., Laminated talking-machine record. No. 1,423,517; July 25.
Engel, Godfrey, sr., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Casting process. No. 1,423,654; July 25.
Erickson, Anton F., Phillipsburg, Pa. Attachment for aeroplanes. No. 1,423,789; July 25.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Ackerman, Frank E., St. Paul, Minn. Mechanical hoist. No. 1,423,638; July 25.
Adams, Harry E., New York, N. Y. Securing means for automobile top closures. No. 1,424,061; July 25.
Adams, John Q., et al. (See Craft, Clarence H., assignor.)
Adell, Edward, Orange, Mass., and C. A. Brink, Cranston, R. I., assignors to Universal Winding Company, Boston, Mass. Cop or bobbin holder. No. 1,423,824; July 25.
Adriance, Adrian D., Brooklyn, N. Y. Toy arrow. No. 1,423,551; July 25.
Agnew, Alexander J., and F. F. Renwick, assignors to Ilford Limited, Ilford, England. High-temperature development of photographic materials. No. 1,424,062; July 25.
Agutter, George, Forest Hills, N. Y. Tennis racket. No. 1,423,900; July 25.
Airdry Corporation. (See Hibbard, R. B., Watrous, and Bassette, assignors.)
Akins, Jefferson H., Lewistown, Mont. Shim. No. 1,424,063; July 25.
Allen, Louise, Hawarden, Iowa. Cigar rest. No. 1,423,507; July 25.
Allied Golf Company. (See White, James S., assignor.)
Aluminum-Schweisswerk A.-G. (See Grubenmann, Max, assignor.)
American Abrasive Metals Company. (See Edmondson, Ralph S., assignor.)
American Atomized Fuel Company. (See Whitaker, William H., assignor.)
American Gas Company of New Jersey. (See Warner, Arthur W., assignor.)
American Hard Rubber Co. (See Schelhammer, Herman, assignor.)
American Hard Rubber Co. (See Wing, C. E., and Schelhammer, assignors.)
American Hardware Corporation, The. (See Stone, Elmer B., assignor.)
American Multigraph Company, The. (See Chisholm, Clifton, assignor.) (Reissue.)
American Steel and Wire Company of New Jersey, The. (See Morrison, Max, assignor.)
American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
American Woodworking Machinery Company. (See Foster, C. B., and Clement, assignors.)
American Zinc, Lead & Smelting Company. (See Rossman, William F., assignor.)
Anderson, Carl E., East Orange, assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Slide for the straps of garments. No. 1,423,639; July 25.
Anderson, John H., St. Paul, Minn. Wagon tongue. No. 1,424,064; July 25.
Anderson, William, Newark, N. J. Door lock and applying the same. No. 1,423,825; July 25.
Andrusyszyn, Frank, Revloc, Pa. Car-seat construction. No. 1,423,508; July 25.
Andrusyszyn, Frank, assignor of one-fourth to W. Klymko, Nanty Glo, and one-fourth to A. Senczak, Revloc, Pa. Sliding-door lock. No. 1,423,509; July 25.
Anstice, Josiah, & Company. (See Pickering, Theodore H., assignor.)
Arbeitblatt, Abraham, Los Angeles, Calif. Steering gear for trailers. No. 1,424,129; July 25.
Arbogast, Charles. (See Schaaf, John B., assignor.)
Armington, Arthur A., et al., executors. (See Wardwell, Simon W.)
Armitage, George H., Lincoln, assignor to United Lace & Braid Manufacturing Company, Auburn, Cranston, R. I. Machine for making shoe laces and the like. No. 1,423,984; July 25.
Armstrong Cork Company. (See Lansill, John S., assignor.)
Armstrong, Edwin H., Yonkers, N. Y. Signaling system. No. 1,424,065; July 25.
Arnold, Edward E., Coventry, and P. St. Clair, jr., Providence, assignors to The Nitrogen Corporation, Providence, R. I. Conducting the ammonia-soda process. No. 1,423,510; July 25.
Bach, Nells P., Millburn, N. J., assignor to Perfect Vacuum Canning Company, New York, N. Y. Apparatus for sealing containers. No. 1,423,591; July 25.
Bagnulo, Alberto, Turin, Italy. Internal-combustion and hot-air engine. No. 1,423,705; July 25.
Bahl, Errold G., Lincoln, Nebr. Aeroplane fuselage and building same. No. 1,424,066; July 25.
Bailey, George C., Woodcliffe-on-Hudson, C. W. Fischer, Grantwood, N. J., and J. F. W. Schulze, Edgewood, Md., assignors to The Barrett Company. Purification of substances by distillation with a solvent. No. 1,424,138; July 25.
Baker, James N., Brooklyn, assignor to R. Hoe and Co., New York, N. Y. Routing tool. No. 1,423,511; July 25.
Baker, Walter C., assignor to Standard Parts Company, Cleveland, Ohio. Brake mechanism. No. 1,423,901; July 25.
Baldwin, Frederic E., Philadelphia, Pa. Closure. No. 1,423,592; July 25.
Baldwin, Frederic E., Philadelphia, Pa. Holder for hot-water-bottle stoppers. No. 1,423,593; July 25.
Bankers Electric Protective Association. (See Crawford, Franklin E., assignor.)
Banks, George L., Walnut Park, Calif. Aeroplane. No. 1,424,130; July 25.
Banner Machine Company, The. (See Grove, Frank H., assignor.)
Bardsley, Willard W., et al., executors. (See Wardwell, Simon W.)
Barlow, Herndon O., Los Angeles, Calif. Automatic surf-breaking apparatus. No. 1,423,640; July 25.
Barney, Philip, Dollard, Manitoba, Canada. Animal poke. No. 1,423,706; July 25.
Barringer, Lawrence E., Schenectady, N. Y., assignor to General Electric Company. Cementing and protecting composition. No. 1,423,985; July 25.
Barrett Company, The. (See Bailey, G. C., Fischer, and Schulze, assignors.)
Barrett Company, The. (See Weisberg, L., and Potter, assignors.)
Barrett Company, The. (See Williams, Arthur G., assignor.)
Barrows, Harry E., assignor to Dillingham Manufacturing Company, Sheboygan, Wis. Folding chair. No. 1,423,594; July 25.
Bartlett, Harry D., Chicago, Ill. Coal-handling device. No. 1,423,986; July 25.
Bassette, John G. (See Hibbard, R. B., Watrous, and Bassette.)
Batchelor, Harold, Jersey City, N. J. Locking means for nuts, bolts, and the like. No. 1,423,746; July 25.
Bauer, Gustav, Hamburg, and F. Kramer, Blankenese-Dockenhnden, near Hamburg, Germany. Testing apparatus for indicating leaks. No. 1,423,902; July 25.
Bauman, Edward H., Baltimore, Md. Illuminated marker. No. 1,423,641; July 25.
Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pin retainer for tool holders. No. 1,423,595; July 25.
Bayne, George G., Bushnell, Ill. Trough. No. 1,423,552; July 25.
Beal, Carroll N. and F. C., San Francisco, Calif. Tractor driving and mechanism therefor. No. 1,423,642; July 25.
Beal, Fay C. (See Beal, Carroll N. and F. C.)
Beccari, Giuseppe, assignor to Società Anonima Brevetti Beccari, Florence, Italy. Apparatus for working garbage and refuse of towns. (Reissue.) No. 15,417; July 25.
Bellamore, David H., and T. I. S. Boak, East Orange, N. J., assignor to Steel Wheel Corporation. Making pressed-steel vehicle wheels. No. 1,423,747; July 25.
Bell, John E., Brooklyn, N. Y. Waste-heat economizer. No. 1,423,826; July 25.
Bell Pump Company. (See Larkin, J. J., and Gordon, assignors.)
Beman, Ralph, Cleveland, Ohio, assignor to General Electric Company. Gauge for lamps. No. 1,424,067; July 25.
Benjamin, Dana H., Cleveland Heights, and A. R. Curtis, Cleveland, assignors to S. D. Guggenheim, Cleveland Heights, Ohio. Extractor. No. 1,423,827; July 25.
Benson, Emil T., Chicago, Ill. Marking machine. No. 1,423,903; July 25.
Berman, Henry, assignor of one-half to E. Erik, Ossining, N. Y. Sound box. No. 1,423,707; July 25.
Berman, Wolf, New York, N. Y. Sectional inner strip for automobile tires. No. 1,423,748; July 25.
Betry, Owen C. (See Lake, H. M., and Betry.)

212— 142: 1,422,904
213— 67: 1,423,064
214— 1: 1,422,895
18: 1,422,907
65.4: 1,423,234
142: 1,422,924
215— 9: 1,423,174
11: 1,423,038
38: 1,423,105
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74: 1,423,393
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217— 12: 1,422,912
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56: 1,423,317
89: 1,423,254
218— 27: 1,422,947
219— 21: 1,422,826
34: 1,423,039
38: 1,422,896
44: 1,423,380
220— 32: 1,423,215
39: R. 15,413
61: 1,422,157
72: 1,423,419
73: 1,423,278
85: 1,423,442
221— 45: 1,423,503
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224— 7: 1,423,203
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225— 21: 1,423,337
226— 2: 1,422,860
84: 1,422,970
228— 2: 1,423,366
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229— 8.5: 1,423,270
16: 1,423,272
31: 1,423,001
230— 11: 1,423,348
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24: 1,422,853
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30: R. 15,415
19: 1,423,251
232— 46: 1,422,852
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234— 1: 1,422,932
1.5: 1,423,182
5.5: 1,422,920
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235— 58: 1,423,437
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61: 1,423,168
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89: 1,423,493

235— 98: 1,423,333
236— 31: 1,423,492
238— 262: 1,423,394
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240— 1: 1,422,841
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108: 1,423,319
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213— 39: 1,423,440
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216— 19: 1,422,844
66: 1,423,306
68: 1,423,385
163: 1,423,495
196: 1,423,318
227: 1,422,836
340: 1,423,351
414: 1,422,963
443: 1,423,005

247— 7: 1,422,910
13: 1,423,045
27: 1,423,309
248— 2: 1,423,308
20: 1,423,119
250— 8: 1,423,345
19: 1,422,882
251— 5: 1,422,864
8: 1,423,418
38: 1,423,340
45: 1,423,010
47: 1,422,980
48: 1,422,178
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179: 1,423,496
254— 50: 1,423,328
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260— 106: 1,422,869
128: 1,423,101
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261— 39: 1,422,871
262— 1: 1,422,874
263— 1: 1,423,123
11: 1,423,501
41: 1,422,878
265— 27: 1,423,305

266— 1: 1,423,332
267— 20: 1,423,006
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45: 1,423,180
52: 1,422,956
69: 1,422,999
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278— 50: 1,423,196
279— 99: 1,423,055
280— 33.2: 1,422,928
33.15: 1,423,164
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112: 1,423,002
160: 1,422,887
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286— 9: 1,423,369
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287— 60: 1,423,235
89: 1,423,013
290— 1: 1,423,334
17: 1,423,124
30: 1,423,107
291— 20: 1,423,420
292— 33: 1,422,936
148: 1,422,846

292— 192: R. 15,412
228: 1,423,310
239: 1,423,034
262: 1,423,467
293— 55: 1,423,186
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294— 69: 1,423,424
83: 1,423,301
295— 35: 1,423,381
296— 14: 1,422,859
44.5: 1,422,951
51: 1,422,962
95: 1,423,116
116: 1,423,061
140: 1,423,210
301— 17: 1,423,471
35: 1,423,176
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1,423,354
39: 1,423,036
41: 1,423,054
50: 1,422,952
58: 1,423,373
63: 1,422,813
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64: 1,423,229
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304— 2: 1,423,375
306— 1: 1,423,151
23: 1,422,880

CLASSIFICATION OF PATENTS

ISSUED JULY 18, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

2— 15: 1,423,434
60: 1,423,315
84: 1,422,849
3— 12: 1,423,296
4— 17: 1,422,953
39: 1,423,465
5— 5: 1,423,171
13: 1,423,416
29: 1,423,100
39: 1,423,065
45: 1,422,939
6— 10: 1,423,212
7— 6: 1,423,127
8— 1: 1,422,866
8: R. 15,414
15— 119: 1,423,444
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251: 1,423,239
16— 16: 1,423,143
114: 1,423,406
128: 1,423,012
1,423,350
131: 1,423,321
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172: 1,423,455
18— 6: 1,423,349
53: 1,422,884
19— 12: 1,423,357
20— 1.01: 1,423,327
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52.1: 1,423,057
22— 5: 1,423,146
23— 13: 1,422,945
22: 1,422,848
21: 1,422,838
1,422,889
24— 3: 1,422,872
13: 1,423,359
49: 1,423,208
60: 1,423,498
66: 1,423,129
71.1: 1,423,211
102: 1,423,267
135: 1,423,263
155: 1,423,402
193: 1,423,353
257: 1,423,043
25— 21: 1,423,009
1,423,020
56: 1,423,401
121: 1,423,461
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132: 1,422,857
145: 1,423,408
155: 1,423,000
29— 33: 1,423,361
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29: 1,423,027
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23: 1,423,289
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147: 1,423,339
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199: 1,423,214
34— 5: 1,423,188
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12: 1,423,297
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35— 2: R. 15,416

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45: 1,423,436
40— 11: 1,422,973
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41— 10: 1,423,122
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75: 1,423,261
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45— 129: 1,423,201
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56: 1,423,035
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70: 1,423,089
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55: 1,423,220
51— 15: 1,423,128
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62— 6: 1,422,886
63— 15: 1,422,819
64— 5: 1,422,809
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34: 1,423,067
42: 1,423,028
43: 1,423,367
50: 1,422,843
53: 1,423,007
59: 1,423,426
81: 1,423,489
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75— 1: 1,423,338
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61: 1,423,072
77— 16: 1,423,266
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87: 1,423,142
91: 1,423,247
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82— 28: 1,422,994
83— 8: 1,423,275
9: 1,423,150
42: 1,423,450
56: 1,423,370
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67: 1,423,160
83: 1,423,130
84— 36: 1,422,909
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53: 1,423,505
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281: 1,422,827
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85— 14: 1,423,133
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87— 4: 1,423,042
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88— 17: 1,423,452
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20: 1,423,091
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116: 1,422,909
89— 27: 1,422,955
37: 1,423,404
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91— 65: 1,422,964
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93— 2: 1,423,237
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91: 1,423,249
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95— 12.5: 1,423,364
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66: 1,423,420
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99— 1: 1,423,053
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Fishing lines, Enameled Japan-silk. Cortland Line Co. No. 164,370; July 18.
Fishing lines, Japan-silk waterproof. Cortland Line Co. No. 164,366; July 18.
Fishing lines, Pure Japan-silk. Cortland Line Co. No. 164,387; July 18.
Fishing-lines, Oiled-silk. Cortland Line Co. No. 164,371; July 18.
Fishing lines, Pure-silk. Cortland Line Co. No. 164,385; July 18.
Flooring, Mastic. Thomas Moulding Brick Company. No. 163,903; July 18.
Fly liquids, roach powders, liquid spray, etc. Komo Chemical Company. No. 160,497; July 18.
Forgings, Drop. Union Drop Forge Company. No. 156,938; July 18.
Foundling, Machines for making molds for. Beardsley & Piper Company. No. 159,549; July 18.
Fur, Unmanufactured. Salomon & Weiner, Inc. No. 102,857; July 18.
Furnaces, grate frames, grate bars, etc., Solid-fuel. Marion Foundry Corporation. No. 128,555; July 18.
Ginger ale. Abner-Drury Company. No. 161,715; July 18.
Gloves, Silk. Cooper, Coate & Casey Dry Goods Co. No. 157,409; July 18.
Gold, White. Goldfarb & Friedberg Inc. No. 158,183; July 18.
Gongs, Carriage. Muller and Phipps (Asia) Limited. No. 143,374; July 18.
Hair nets. S. Glemby's Sons Co. Nos. 163,388–90; July 18.
Hair nets. Morris, Mann & Reilly, Inc. No. 164,113; July 18.
Hair nets. Rieser Company No. 163,178; July 18.
Hair nets. Rieser Company. No. 163,181; July 18.
Hair restorer. J. H. Krumrein. No. 160,141; July 18.
Hair tonic. A. Mell. No. 163,937; July 18.
Hats, Ladies'. H. S. Morris. No. 150,456; July 18.
Hats, Ladies' trimmed. Scully Brothers & Co. No. 156,759; July 18.
Hats, overcoats, suits, raincoats, etc., Men's. J. David. No. 158,418; July 18.
Heaters for heating liquids, Electric. Ford & Manion, Inc. No. 158,674; July 18.
Hoists. Washburn & Granger, Inc. No. 155,582; July 18.
Hosiery. Belmont Hosiery Company. No. 155,659; July 18.
Hosiery. J. C. Larkin. No. 155,895; July 18.
Hosiery and underwear, Women's. Ladyfair Hosiery and Underwear Co. No. 157,276; July 18.
Ice-cream cabinets. G. G. Peterson. No. 164,556; July 18.
Ink, Writing. Mission Bead Company. No. 160,071; July 18.
Inks, Printing and lithographic. Fuchs & Lang Manufacturing Company. No. 157,419; July 18.
Inks, Writing. Puritan Drug Mfg. Co. No. 146,654; July 18.
Insect exterminators. Royal Exterminating Products, Inc. No. 156,296; July 18.
Insecticides. D. N. Gilpin. No. 159,415; July 18.
Iron and steel bar metal. Logan Iron & Steel Company. No. 156,452; July 18.
Iron and steel blanks and shapes, Rolled. Witherow Steel Company. Nos. 162,366–7; July 18.
Kitchen utensils, Aluminum. National Metal Ware Co. No. 123,657; July 18.
Knitted sweaters. Cladwell Distributing Company. No. 156,357; July 18.
Laces and nets in the piece. G. Sidenberg & Co. No. 152,934; July 18.
Lamp systems for vehicles. Tell-Stop Appliance Co. No. 155,525; July 18.
Lamps, Electric street signaling. F. Milliken. No. 161,893; July 18.
Laxatives. Marmola Company. No. 153,357; July 18.
Leather. W. Graham. No. 161,434; July 18.
Liniment. S. B. Tizzard. No. 160,266; July 18.
Loose-leaf devices. E. A. Paul Wolf Co. No. 162,227; July 18.
Lye. Northern Jobbing Company. No. 162,309; July 18.
Medicinal compound for the treatment of piles, sore feet, and sores. Wilson Pile Cure Co. No. 160,839; July 18.
Medicinal preparation for malassimilation and nutritional disorders. International Consolidated Chemical Corporation. No. 162,417; July 18.
Medicine for rheumatism. A. Karaffa. No. 156,193; July 18.
Medicine for stomach troubles. W. H. Enell. No. 162,388; July 18.
Medicine used in treatment of piles, burns, and itch. N. W. Jordan. No. 157,223; July 18.
Medicines and tonics for colds, grippe, or malaria, face creams or lotions, etc. F. J. O'Rourke. No. 156,543; July 18.
Metals and alloys and ingots, castings, sheets, rolls, wire, strips, rods, and tubes made from such metals and alloys, Cast, drawn, etc. American Brass Company. No. 158,354; July 18.
Metals, Nonferrous. Bridgeport Brass Company. No. 158,110; July 18.
Middy blouses. Perfect Garment Co. No. 158,253; July 18.
Milk and butter, Condensed. Kent Storage Company. No. 150,072; July 18.
Mottoes, Snapping. B. Shackman & Co. No. 164,121; July 18.
Mottoes, Snapping. B. Shackman & Co. No. 164,124; July 18.
Neckties. Baker, Jacobs & Company. No. 157,133; July 18.
Net goods in the piece, Silk. Aime Baboin & Cie. No. 153,967; July 18.
Newspaper section. Journal Company, Incorporated. No. 161,629; July 18.
Oil, Antiseptic healing. A. Roesch. No. 160,261; July 18.
Ointment. R. E. White. No. 160,735; July 18.
Ointment or salve, Medicated healing. Greenbaum Company. No. 160,546; July 18.
Overalls and men's work shirts, Boys'. Louisville Furnishing Goods Co. No. 159,363; July 18.
Overalls, coats, pants, knickers, and work shirts. C. P. Brown Mfg. Co. No. 153,032; July 18.
Overalls, jackets, and work shirts. Lawrenceburg Overall Mfg. Co. No. 158,876; July 18.
Overalls, work shirts, jumpers, duck coats, etc. Keet & Rountree Dry Goods Company. No. 158,619; July 18.
Paints. A. C. Fischer. No. 130,819; July 18.
Paper and envelopes. C. P. Lesh Paper Company. No. 164,327; July 18.
Paper and envelopes, paper tablets, shipping labels, etc., Blank. Roller Printing and Paper Co. No. 160,206; July 18.
Paper, correspondence envelopes, tablets, and blank books. J. C. Blair Company. No. 164,306; July 18.
Paper for printing and writing, Sheet. Tribune Company. No. 157,592; July 18.
Paper for wrapping and packing purposes. Van de Carr Paper Company. No. 159,191; July 18.
Paper, Wrapping. Charles F. Hubbs & Company. No. 164,250; July 18.
Paper, Writing. M. Milton. No. 122,018; July 18.
Paper, Writing and printing. International Paper Company. No. 164,166; July 18.
Parasols, Novelty. Parisienne Flapper Parasol Company. No. 163,697; July 18.
Pencils, Lead. Eugene Dietzgen Company. No. 164,027; July 18.
Pens and pencils, Fountain. Moore Pen Company. No. 160,827; July 18.
Phonograph-record discs. H. S. Russell. No. 154,286; July 18.
Phonographs and tone arms, sound boxes, horns, and amplifiers. Cadillac Phonograph Corporation. No. 134,058; July 18.
Piston rings, Metallic. Foster, Merriam & Company. No. 162,106; July 18.
Planes, Carpenters'. H. Anderson. No. 159,239; July 18.
Plugs for repairing metal bodies, plates, boilers, tanks, etc. H. Wichmann. No. 156,320; July 18.
Polish, metal polish, enamel cleaner, etc., Liquid stove. Rutland Fire Clay Co. No. 162,452; July 18.
Polishing cloth. P. L. Bearden. No. 162,476; July 18.
Potatoes, Seed. S. A. and J. L. Colson, administratrices of the estate of Edwin Colson. No. 163,672; July 18.
Potatoes, Seed. J. H. Kandle. No. 163,682; July 18.
Powders, perfumes, etc., Toilet and sachet. A. Bourjois & Co. No. 156,953; July 18.
Powders, Washing. Royal Lemon Products Co. No. 163,414; July 18.
Preparation for cleaning rugs, carpets, etc., Liquid. F. W. Hogue. No. 163,043; July 18.
Preparation for treatment of piles, leucorrhea, burns, eczema, etc. J. B. Chancey. No. 154,435; July 18.
Preparation for the treatment of stomach, bowels, kidney, and heart trouble. C. Dilla. No. 160,538; July 18.
Preparation used for shaving cream and chapped skin. P. Amsterdam. No. 160,990; July 18.
Pumps. Deming Company. No. 152,549; July 18.
Puzzle. Miller & Kent. No. 165,298; July 18.
Radio, telegraph and telephone transmitting and receiving apparatus. B. Daniel. No. 162,669; July 18.
Railway tie plates. Railway Lock-Spike Company. No. 160,207; July 18.
Razor blades, Safety-. Gillette Safety Razor Company. No. 159,148; July 18.
Receivers, condensers, transformers, etc., Head. Everett Electric Corporation. No. 161,242; July 18.
Refrigerators. E. Eckl. No. 160,933; July 18.
Remedy for chapped hands, salt rheum, etc. J. P. Suess. No. 160,084; July 18.
Ribbons, cotton, woolen, and silk goods, all in the piece. W. Bodek Company. No. 151,199; July 18.
Rifles. Page-Lewis Arms Company. No. 161,790; July 18.
Rings to noses of animals, Implement for applying. Estate of A. C. Decker. No. 159,856; July 18.
Roofing and asphalt shingles, Prepared. Beckman-Dawson Roofing Co. No. 147,086; July 18.
Rubber tiling for floors. W. H. Salisbury & Company. No. 160,157; July 18.
Rugs, Axminster. Hugh Nelson's Columbia Carpet Mills. No. 163,820; July 18.
Salt, Table. F. West. No. 160,452; July 18.

Salve for the treatment of eczema, itchings, etc. P. A. De Laporte. No. 129,451; July 18.
Salve, Healing. J. Radzevich. No. 161,647; July 18.
Shawls and sweaters. Ideal Linen Mesh Co. No. 159,656; July 18.
Sheetings, Cotton. Columbus Manufacturing Company. No. 155,254; July 18.
Shingles, Wood. Arthur E. Lane Lumber Corp. No. 163,155; July 18.
Shirtings in the piece woven from silk, cotton, or a mixture of the same. Turner & Walls. No. 163,297; July 18.
Shirts and boys' negligee shirts, pyjamas, and night robes. Fowler-Nicolet Co. No. 156,786; July 18.
Shirts, Men's outer. Jacob Miller Sons & Co. No. 158,687; July 18.
Shirts, One-piece work. C. P. Brown Manufacturing Co. No. 153,031; July 18.
Shoe shanks, Metal. Sandow Tool Co. U. S. A. No. 150,709; July 18.
Shoes, Antislipping attachment for. R. O. Bardon. No. 155,003; July 18.
Sifters, Rotary. Jordan Marsh Company. No. 159,970; July 18.
Silk piece goods. H. R. Mallinson & Co. No. 155,821; July 18.
Silk piece goods. Zollinger and Schroth, Inc. No. 163,490; July 18.
Silk taffetas and satin messalines in the piece. Philipsborn's, Inc. No. 163,893; July 18.
Silks in the piece. Primrose Silk Stores, Inc. No. 160,971; July 18.
Sirup used in the treatment of colds, croup, etc., Cough. A. C. Holloway. No. 163,273; July 18.
Slate for use as a surfacing grit for prepared roofings, Crushed. Staso Laminated Slate Company. No. 139,722; July 18.
Sleeping garments. Jones Bros. Garment Co. No. 142,560; July 18.
Soap. J. R. Saunders. No. 162,359; July 18.
Soap. Solar Electric Company. No. 159,535; July 18.
Soap, Hand. Pacific Chemical Company. No. 162,767; July 18.
Soap, Oil. John T. Stanley Co. No. 161,654; July 18.
Soaps, Toilet. Mulhens & Kropff. No. 163,228; July 18.
Sparkling metal, Pieces of. Art Metal Works, Inc. No. 161,870; July 18.
Starch, Laundry. Corn Products Refining Co. No. 160,049; July 18.
Steel and steel plates, Bar, etc. General Steel Products Co. No. 141,302; July 18.
Stoves and burners, etc., Oil. Cleveland Metal Products Company. No. 161,301; July 18.
Suits and coats, Men's and boys'. M. Fishman. No. 148,325; July 18.
Table covers, handkerchiefs, doilies, etc., Cotton. United Turkey Red Company. No. 156,767; July 18.
Tableware, etc., Babies' and children's. Rogers, Lunt & Bowlen Company. No. 146,734; July 18.
Tanning extracts, Solid and liquid. Gerb-und Farbstoffwerke H. Renner & Co. Actien-Gesellschaft. No. 158,473; July 18.
Theft-preventing device, Electrically-operated. W. Jamro. No. 161,839; July 18.
Therapeutics, Solution for parenteral protein. Chemische Fabrik von Heyden, Aktiengesellschaft. No. 152,954; July 18.
Tire casings, Pneumatic. B. F. Goodrich Company. No. 162,167; July 18.
Tires, Rubber vehicle. Fisk Rubber Company. No. 161,043; July 18.
Torches, Plumbers'. P. H. Gundermann. No. 161,833; July 18.
Tractors and parts thereof. Miller Traction Tread Company. No. 158,934; July 18.
Umbrella ribs and stretchers of steel or iron. Wright Bindley & Gell Limited. No. 163,725; July 18.
Underwear, Ladies'. Parsons & Baker Co. No. 159,218; July 18.
Valves and pipe fittings. Stack Heater Company. No. 155,276; July 18.
Valves, Balls, seats, and drops for oil-well. Norris Bros. Inc. No. 160,623; July 18.
Vault lining plates of composite metal, Bank-. American Abrasive Metals Company. No. 157,873; July 18.
Waists, Tailored. Nelscraft, Inc. No. 157,001; July 18.
Warning devices, Mechanically-operated. Compagnie Industrielle et Commerciale du Cycle et de l'Automobile. No. 142,005; July 18.
Watches and clocks. J. F. Mansfield. No. 157,379; July 18.
Watches and watch movements, watchcases, and parts thereof. R. A. Gsell. No. 144,617; July 18.
Water, Mineral. A. Velo y Filgueira. No. 140,085; July 18.
Waterproofed top and seat cover cloth of a textile nature. Golde-Patent Manufacturing Co. No. 156,156; July 18.
Wireless receiving sets, radio cabinets, etc., Complete loud-speaking. P. E. Edelman. No. 162,616; July 18.
Wireless transmitting and receiving apparatus. Loyd Wireless Telephone Corporation. No. 161,783; July 18.
Woolen piece goods. Glazier Mfg. Company. No. 160,758; July 18.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alloys for use in the manufacture of jewelry and jewelers' goods. Marret, Bonnin, Lebel & Guieu. No. 161,329; July 18.
Analgesic tablets for headache, neuralgia, rheumatism, etc. P. Metadier. No. 161,633; July 18.
Antiseptic preparation. West-Laboratorium Gesellschaft mit beschränkter Haftung. No. 153,494; July 18.
Aprons and house dresses. H. S. Well Co. No. 152,528; July 18.
Balls, Golf. A. G. Spalding & Bros. No. 162,959; July 18.
Balls, Golf. Holmac, Inc. No. 165,080; July 18.
Balls, Golf. Holmac, Inc. Nos. 165,376–8; July 18.
Bandeaux. Chas. R. De Bevoise Co. No. 159,500; July 18.
Banks and safes, Small portable savings. Stronghart Company. No. 129,479; July 18.
Bath compound for skin diseases and rheumatic pains, Medicinal. W. Message. No. 159,276; July 18.
Bearing metal in pig form. Ackermite Company of America. No. 157,205; July 18.
Belt dressing. F. Ryan. No. 161,749; July 18.
Belting, Leather. J. Bachmann. No. 160,652; July 18.
Beverages sold as soft drinks and sirups for making same. California Bottling Co. No. 159,920; July 18.
Beverages sold as soft drinks and sirups for making same. Grain Juice Company. No. 163,442; July 18.
Bicycles. Worcester Electric Supply Co. No. 162,080; July 18.
Binders and bound blank books and indexes, Loose-leaf. National Blank Book Co. No. 162,260; July 18.
Bleaching and water-softening preparation. Joseph Crosfield & Sons. No. 160,907; July 18.
Blood purifier and nerve tonic. D. J. Gunter. No. 157,834; July 18.
Boards, panels of wood, etc. Fiat. No. 148,269; July 18.
Boiler fittings and furnishings, Steam. Reliance Gauge Column Company. No. 137,269; July 18.
Book covers. M. L. Stoughton. No. 159,222; July 18.
Boots and shoes. A. Freedman & Sons. No. 149,278; July 18.
Boring tools and machines, reamers, milling machines, etc. Storm Manufacturing Company. No. 143,839; July 18.
Bracelets. Cohn & Rosenberger, Inc. No. 164,494; July 18.
Brake and wood transmission linings, Wood. S. W. Akins. No. 159,914; July 18.
Brassières. Chas. R. De Bevoise Co. No. 159,307; July 18.
Brassières. Chas. R. De Bevoise Co. No. 159,744; July 18.
Brassières and corsets. Kabo Company. No. 159,468; July 18.
Bricks and paving blocks, Fire. Geo. S. Good Fire Brick Co. No. 113,560; July 18.
Brushes for painting, varnishing, cleaning, etc. John L. Whiting-J. J. Adams Company. No. 139,765; July 18.
Brushes for painting, varnishing, cleaning, etc. John L. Whiting-J. J. Adams Company. No. 139,830; July 18.
Brushes for painting, varnishing, cleaning, etc. John L. Whiting-J. J. Adams Company. No. 139,833; July 18.
Brushes for painting, varnishing, cleaning, etc. John L. Whiting-J. J. Adams Company. No. 140,420; July 18.
Burnishing compound. Mid-West Manufacturing Company. No. 162,840; July 18.
Cars and roller-bearing trucks, motor and horse drawn, and wheels and axles. Railway and Mine Supply Company. No. 160,975; July 18.
Cars, Motor. Duesenberg Automobile & Motors Co. No. 160,877; July 18.
Cement, Portland. Marquette Cement Manufacturing Company. No. 161,846; July 18.
Charcoal not specially prepared for decolorizing or deodorizing. Tennessee Eastman Corporation. No. 160,518; July 18.
Checks, check-book cases, and check-book covers, etc. William Mann Company. No. 163,280; July 18.
Chemical composition employed in stamping patterns. S. S. Bendick. No. 165,264; July 18.
Chemicals, medicines, and pharmaceutical preparations. Masco Drug Company. No. 151,186; July 18.
Chemicals or intermediates, rubber accelerators or catalyzers, rubber-compounding ingredients, etc., Coal-tar. National Aniline & Chemical Company. Nos. 161,635–9; July 18.
Chlorine-control apparatus, Chemical-control equipment for water purification, etc. Wallace & Tiernan Co. No. 149,878; July 18.
Chlorine-control apparatus, Chemical-control equipment for water purification, etc. Wallace & Tiernan. No. 149,880; July 18.
Cigars. Le Francis Cigar Company. No. 161,097; July 18.
Cleansing, sterilizing, and disinfecting compound. Eagle Chemical Company. No. 162,810; July 18.
Clocks, Alarm. Marshall Field & Company. No. 161,537; July 18.
Cloth, Artificial-silk. Turner & Stroock, Inc. No. 163,298; July 18.
Clothing. Wasserman & Goldsmith. No. 159,131; July 18.
Clothing for children. H. Fels. No. 158,302; July 18.
Clothespins. E. H. Miller. No. 147,886; July 18.
Coal. Reeves Coal and Dock Co. No. 164,789; July 18.
Coats and suits. E. J. Wile & Co. No. 156,874; July 18.
Coats and suits, Ladies'. Linder Bros. No. 151,879; July 18.
Coats, cloaks, wraps, capes, etc., Women's, children's, and infants'. Salt's Textile Manufacturing Company. No. 159,116; July 18.
Coats, suits, aprons, and dresses, bath robes, etc., Ladies'. Western Garment Mfg. Company. No. 159,737; July 18.
Coats, vests, trousers, and overcoats. Menter Co. No. 159,163; July 18.
Coffee. H. T. Lange Co. No. 156,392; July 18.
Colors, Coal-tar. Society of Chemical Industry in Basle. No. 157,961; July 18.
Compasses, banking indicators, air-distance recorders, etc. Pioneer Instrument Company. No. 138,851; July 18.
Cooking utensils, Aluminum. Wilson Utensil Company. No. 157,462; July 18.
Corsets, corset waists, brassières, bandeaux, etc. American Lady Corset Co. No. 159,456; July 18.
Cotton piece goods. New England Commercial Co. No. 161,505; July 18.
Cotton piece goods. Victor-Monaghan Company. No. 163,953; July 18.
Cotton, silk, and linen goods and mixtures of cotton and silk and linen and silk, all in the piece. Jacob Miller Sons & Co. Nos. 164,061–3; July 18.
Cotton waste. Geo. B. Carpenter & Co. No. 161,225; July 18.
Crackers, Soda. Item Biscuit Co. No. 164,251; July 18.
Cream, Face. M. E. Wilder. No. 162,225; July 18.
Crayons, Standard Oil Company of New York. No. 162,903; July 18.
Crayons, Wax and chalk. Standard Crayon Manufacturing Co. No. 161,803; July 18.
Crayons, Wax and chalk. Standard Crayon Manufacturing Co. No. 161,857; July 18.
Diapers. Utica Infant Wear Corp. No. 159,631; July 18.
Dolls. C. L. Scovil. No. 164,722; July 18.
Dresses, Children's and misses'. T. S. Cohen. No. 154,401; July 18.
Dresses, Misses' and children's. G. P. Van Lopik. No. 159,670; July 18.
Duck, Cotton. John Boyle & Company. No. 156,733; July 18.
Dyes, dyestuffs, and colors. National Aniline & Chemical Company. No. 148,509; July 18.
Dynamos, electromotors, converters, etc. Fiat. No. 148,270; July 18.
Electric conductors, wires, and cables. Boston Insulated Wire and Cable Co. No. 160,534; July 18.
Electric-light fixtures. J. W. Hancock. No. 162,405; July 18.
Electric-light sockets, switches, etc. N. W. Nutt. No. 154,612; July 18.
Electrical apparatus, more particularly tuning-coil sliders. Gehman & Weinert. No. 160,548; July 18.
Electrical generators. A. Jemielita. No. 159,871; July 18.
Electrical switches and pull sockets. Hart & Hegeman Manufacturing Company. Nos. 161,729–30; July 18.
Electrodes, Arc-welding metal. International Welding Engineering Corporation. No. 162,011; July 18.
Embalming fluid. Master Chemical Co. No. 162,187; July 18.
Engines, Fuel-feeding apparatus for internal-combustion. G. J. Burns. No. 159,779; July 18.
Fish hooks and flies. Meier & Frank Co. No. 165,401; July 18.
Fishing-fly books. F. W. Klinger and Langbein Co. No. 164,170; July 18.
Fishing line. Ashaway Line & Twine Manufacturing Company. No. 163,727; July 18.
Fishing lines. Cortland Line Co. No. 164,390; July 18.
Fishing lines, Braided cotton. Cortland Line Co. No. 164,361; July 18.
Fishing lines, Braided Japan-silk enameled. Cortland Line Co. No. 164,374; July 18.
Fishing lines, Enameled Japan-silk. Cortland Line Co. No. 164,368; July 18.

Skates. International Development Company. No. 156,882; July 18.
Suits and dresses, Children's. Gotham Novelty Co. No. 156,873; July 18.
Taffy or molasses candy. H. A. Bankes. No. 156,834; July 18.
Tire retreads. General Tire and Rubber Company. No. 156,869; July 18.
Tire-tube patches. F. H. Binninger. Nos. 156,838–9; July 18.
Tire-tube rubber patches, raincoats, overshoes, etc. F. H. Binninger. No. 156,840; July 18.
Toy, Flying. A. L. Salvo. No. 156,917; July 18.
Toy stoves, Cooking dishes for. George Borgfeldt & Co. No. 156,846; July 18.
Toys. Kelmet Corporation. No. 156,886; July 18.
Toys. Sachem Manufacturing Company. No. 156,916; July 18.
Umbrella and parasol ferrules and ties. Wangee Umbrella Co. No. 156,937; July 18.
Undershirts, drawers, union suits, waists, shirts, pyjamas, and night robes. I. Panitz. No. 156,906; July 18.
Underwear, shirtwaists, infants' underwear and dresses, Women's and girls'. Marshall Field & Company. No. 156,891; July 18.
Valves, Steam-trap air. T. S. Todd & Co. No. 156,931; July 18.
Water, Mineral. Isle of Wight Water Company. No. 156,883; July 18.
Water, Natural spring. Shell Rock Spring Water Co. No. 156,923; July 18.
Well tools and equipment, Oil-. Union Tool Company. No. 156,934; July 18.
Yeast. Northwestern Yeast Company. No. 156,965; July 18.

ALPHABETICAL LIST OF LABELS.

"A C T Chemical Products." (For Pieces of Paper or Other Material Which are to be Attached to Bottles, Boxes, or Packages Containing Chemical Articles of Manufacture.) A. C. Thayer. No. 24,738; July 18.
"Ajem Corn Paste." (For a Proprietary Medicine for the Removal of Corns and the Like.) M. A. Ajemian. No. 24,711; July 18.
"All-Season Veil." (For Veils.) A. A. West. No. 24,740; July 18.
"American 'E' Products Company." (For Powdered Soups.) American "E" Products Company. No. 24,712; July 18.
"Death-Blo Certainly Annihilates Pests." (For Packages Containing a Preparation for Destroying Insects.) D. F. Davenport. No. 24,718; July 18.
"De Luxe Vanity." (For Powder Puffs.) Hochschild Corporation. No. 24,724; July 18.
"Dexter's Mother's Bread." (For Bread.) E. A. Dexter. No. 24,719; July 18.
"G M C Metallic Grease." (For Lubricating Grease.) Genro Mfg. Co. No. 24,722; July 18.
"Grnino." (For Soap.) Kendall Products Corporation. No. 24,728; July 18.
"Grier's Grinding Compound." (For Compounds for Grinding in Bearings.) Grihurn Co. No. 24,723; July 18.
"Harry's Florida Pecan Roll." (For a Nut Confection.) H. Bernstein. No. 24,715; July 18.
"Holmes Honey Pops." (For Confectionery.) H. G. Holmes. No. 24,725; July 18.
"Jack's Bait Wiggle Tail." (For Containers for Fishing Bait.) J. R. Cunningham. No. 24,177; July 18.
"Jack's Fish Ferrets." (For Fishing Tackle.) J. R. Cunningham. No. 24,716; July 18.
"Kendene." (For Soap.) Kendall Products Corporation. No. 24,730; July 18.
"Kill-O-Pest." (For a Liquid Disinfectant for Destroying Ants, Moths, Flies.) Universal Products Co. No. 24,739; July 18.
"Korex." (For Soap.) Kendall Products Corporation. No. 24,729; July 18.
"Maltoid Milk-Bone Puppy Food." (For Dog Biscuits.) F. H. Bennett Biscuit Company. No. 24,714; July 18.
"Murray's Fragrant Cream Violet for Beautifying The Complexion." (For 25¢, 35¢, and 50¢ Size Bottles Containing a Preparation for Beautifying the Complexion.) E. L. Murray. No. 24,731; July 18.
"Old Virginia Brunswick Stew." (For Canned Old Virginia Brunswick Stew.) F. Sturdivant. No. 24,736; July 18.
"On the trail of a Good Tire." (For Vehicle Tires, Being Applied to the Boxes or Packages Containing the Same.) Ideal Tire and Rubber Company. No. 24,726; July 18.
"Pure Silk." (For Hosiery.) Non-Rip Silk Hosiery Mills Inc. No. 24,732; July 18.
"Ruggiero's Dentatura." (For Bottles or Cartons Containing a Mouth Wash.) A. Ruggiero. No. 24,734; July 18.
"Square D Safety Switch." (For Electric Switches.) Square D Co. No. 24,735; July 18.
"Style No. 2016, The Readi-Sew Package." (For an Envelope Containing Children's Ready-to-Sew Garments.) Readi-Sew Package Co. No. 24,733; July 18.
"Sunshine Macaroni." (For Macaroni.) Sunshine Macaroni Mfg. Co. No. 24,737; July 18.
"The World's Finest Fruit." (For Fruit Wrappers.) H. R. Williar. No. 24,741; July 18.
"Thor De Garcia & Co. Havana." (For Cigars, Cigarettes, and Tobacco.) Joseph A. Garcia & Company. No. 24,721; July 18.
"Varicosol." (For a Box Containing a Medical Preparation in Powder Form for the Treatment of Hardening of the Arteries, Varicocele, Varicose Veins, and Rheumatism.) P. T. Donovan. No. 24,720; July 18.
"Vitamine Tomatoes." (For Canned Tomatoes.) Kemp Bros. Packing Co. No. 24,727; July 18.
"Wheatsworth Whole Wheat Graham Crackers." (For Crackers.) F. H. Bennett Biscuit Company. No. 27,713; July 18.
"Ziegler's Aero Kisses." (For Candy Kisses.) Geo. Ziegler Co. No. 27,742; July 18.

ALPHABETICAL LIST OF PRINTS.

"Coals." (For Advertising Purposes for Coal.) F. A. Bassett. No. 6,211; July 18.
"Dandercide." (For Advertising Purposes for Hair Tonic.) L. J. Wantland. No. 6,222; July 18.
"Featuring The Non Rip Silk Hosiery." (For Advertising Purposes for Hosiery.) Non-Rip Silk Hosiery Mills Inc. No. 6,217; July 18.
"Leaping Bass No. 1." (For Advertising Purposes for Fishing Tackle.) Enterprise Manufacturing Company. No. 6,214; July 18.
"Leaping Bass No. 2." (For Advertising Purposes for Fishing Tackle.) Enterprise Manufacturing Company. No. 6,213; July 18.
"Made Mechanically Correct." (For Advertising Purposes for Steel Boats, Barges, Marine Engines, Boilers, and Equipment.) Marietta Manufacturing Company. No. 6,215; July 18.
"Scientific Control vs. Indiscriminate Feeding." (For Advertising Purposes for Mead's Infant Diet Materials.) Mead Johnson & Company. No. 6,216; July 18.
"Singer Electric Fans." (For Advertising Purposes for Electric Fans.) Singer Manufacturing Company. No. 6,221; July 18.
"Singer Portable Electric." (For Advertising Purposes for Portable Electric Sewing Machines.) Singer Manufacturing Company. No. 6,220; July 18.
"Singer Sewing Motor." (For Advertising Purposes for Sewing Motors.) Singer Manufacturing Company. No. 6,219; July 18.
"Sport Trousers." (For Advertising Purposes for White Duck Clothing.) James E. Richards Company. No. 6,218; July 18.
"The Winner's Cup." (For Advertising Purposes for Gold and Silver Ware.) Chrichton Bros. No. 6,212; July 18.
"Venus Thin Leads." (For Advertising Purposes for Lead Pencils.) American Lead Pencil Company. No. 6,210; July 18.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Apparel for men, women, and children, Wearing. F. T. Woodman Co. No. 156,943; July 18.
Aprons. M. P. Duggan. No. 156,860; July 18.
Automobiles. Lexington Motor Company. No. 156,890; July 18.
Baby outfits. Polkase Mfg. Co. No. 156,912; July 18.
Balls, Golf. Holmac, Inc. No. 156,880; July 18.
Beverage and sirup, Nonalcoholic. Hurty-Peck & Company. No. 156,881; July 18.
Beverage of pure fruit juices, Nonalcoholic maltless. Northwest Fruit Products Co. No. 156,899; July 18.
Beverage or drink, Nonalcoholic maltless. Leiber, Max & Company. No. 156,889; July 18.
Blankets, Cotton and wool. Estate of John E. Townsend. No. 156,932; July 18.
Butter, condensed and evaporated milks. Dairymen's League Co-Operative Association. No. 156,858; July 18.
Butter, lard, hams, etc., Creamery. Wm. Schluderberg-T. J. Kurdle Co. No. 156,921; July 18.
Cameras and projectors, Motion-picture Aladdin Cinema Company. No. 156,829; July 18.
Candies. Springer Chocolate Co. No. 156,928; July 18.
Candy. H. C. Boehm. No. 156,843; July 18.
Candy. Bonita Co. No. 156,844; July 18.
Candy. H. B. Chalmers. No. 156,852; July 18.
Candy. Nunnally Company. No. 156,900; July 18.
Candy. Package Confectionery Company. No. 156,904; July 18.
Candy. Palmer Candy Co. No. 156,905; July 18.
Candy. G. L. Rassias. No. 156,914; July 18.
Candy. Westmoreland Candy Company. No. 156,942; July 18.
Candy and chewing gum. J. W. Wood. No. 156,939; July 18.
Candy, Chocolate. Bishop & Company. No. 156,841; July 18.
Cane sirup and corn sirup mixed for food purposes. Burns Syrup Company. No. 156,848; July 18.
Canned fish, fruits, and vegetables. Steele Packing Company. No. 156,930; July 18.
Canned fruits. H. G. Prince & Co. No. 156,913; July 18.
Canned fruits and vegetables, fruit preserves, table sauces, dressings, etc. Allison-Bedford Co. No. 156,830; July 18.
Carbon and high-speed steel twist drills, reamers, rasps, etc. Dyktor Brothers Inc. No. 158,861; July 18.
Carts, Dump. Auto Truck Service Co. No. 156,909; July 18.
Chemicals and dental preparations, Certain. L. D. Caulk Company. No. 156,850; July 18.
Chewing gum. J. G. Kitchell. No. 156,888; July 18.
Chocolates. Heidelberger Confectionery Co. No. 156,875; July 18.
Chocolates, chocolate bars, and chocolate nut bars. Mercken, Inc. No. 156,893; July 18.
Cigarettes. H. L. Savory. No. 156,918; July 18.
Cigars. Otto Eisenlohr & Bros. Inc. No. 156,862; July 18.
Cigars. Estate of Joseph J. Schaefer. Nos. 156,919–20; July 18.
Clothing. J. Schoeneman Incorporated. No. 156,922; July 18.
Clothing, Certain articles of. E. Byrnes. No. 156,849; July 18.
Clothing, Certain articles of. O. F. Grab & Co. No. 156,874; July 18.
Clothing, Certain articles of. Ottenheimer, Goldman Co. No. 156,901; July 18.
Cocoa butter. Daarnhouwer & Co. No. 156,857; July 18.
Coffee. Central Coffee Co. No. 156,851; July 18.
Coffee. Johnson-Layne Coffee Company. No. 156,884; July 18.
Coffee. Nash Coffee Company. No. 156,895; July 18.
Confection comprising seedless raisins and roasted peanuts, Food. C. C. Adams. No. 156,828; July 18.
Cotton cloth in the piece, towels, and toweling. Boott Mills. No. 156,845; July 18.
Cotton goods in the piece. Trion Company. No. 156,933; July 18.
Cotton goods in the piece. Wm. Simpson, Sons & Co. No. 156,924; July 18.
Cotton piece goods. Massachusetts Cotton Mills. No. 156,892; July 18.
Cotton piece goods. Pacific Mills. No. 156,903; July 18.
Cotton piece goods. Ware Shoals Mfg. Co. No. 156,988; July 18.
Cough sirup. J. H. Baker. No. 156,833; July 18.
Crockery cooking utensils and dishes, flowerpots, etc. American Wholesale Corporation (Baltimore Bargain House). No. 156,972; July 18.
Dresses. Nat Goldston & Co. No. 156,872; July 18.
Dresses and frocks, Women's, misses', and children's. G. Farkas. No. 156,865; July 18.
Dresses, Ladies' and misses'. Morris Nagel & Co. No. 156,894; July 81.
Dresses, Ladies', misses', and children's. John Wanamaker, New York. No. 156,936; July 18.
Engines and cream-separating machines, Internal-combustion. Associated Manufacturers Company. No. 156,832; July 18.
Extracts, colors, and flavors for soft drinks. R. Heinrichshofen. No. 156,876; July 18.
Finger rings. C. B. Poage. No. 156,911; July 18.
Fire-extinguisher fluid. Safandshur Chemical Co. No. 156,971; July 18.
Fire extinguishers and chemical fire engines, Motor-driven and hand-drawn. B. J. Goldstein. No. 156,871; July 18.
Fireworks. Buettell Brothers Company. No. 156,847; July 18.
Fishing lines. Cortland Line Co. Nos. 156,948–57; July 18.
Flavoring extracts for food. Webb Manufacturing Company. No. 156,940; July 18.
Flavoring extracts for nonalcoholic beverages. National Fruit Flavor Co. No. 156,896; July 18.
Flavoring extracts, spices, and sauces, Food. I. Berkenfield. No. 156,964; July 18.
Flexible driving mechanism, etc. P. L. Billingsley Company. No. 156,837; July 18.
Fruit frappé. Richard Frank. No. 156,867; July 18.
Fruits and grape sirup for food purposes, Fresh deciduous and dried. L. Zerillo. No. 156,946; July 18.
Fruits, Fresh deciduous. Northern California Fruit Co. No. 156,898; July 18.
Game, Table board. Gamecraft and Toy Company. No. 156,868; July 18.
Garment, Rain. R. M. Goldfredrick. No. 156,870; July 18.
Golf clubs, balls, shafts, heads, grips, etc. Holmac, Inc. No. 156,879; July 18.
Gum, Chewing. J. G. Kitchell. No. 156,887; July 18.
Ham. Patrick Young Company. No. 156,907; July 18.
Hats and caps, Men's and children's. D. E. Loewe & Co. No. 156,947; July 18.
Hats, Ladies'. Fink-Cimiotti, Inc. No. 156,866; July 18.
Hats, Ladies'. Harry Solomons & Son. No. 156,927; July 18.
Hats, Ladies' trimmed. Staadecker & Co. No. 156,929; July 18.
Hose, Men's, ladies', and children's cotton, silk, and woolen. L. C. Vaughan. No. 156,935; July 18.
Hosiery. Bestex Hosiery Co. No. 156,836; July 18.
Insect fluid. Emerson Pharmaceutical Laboratories. No. 156,863; July 18.
Kettles, Steam cooking. Curtis Manufacturing Company. No. 156,856; July 18.
Knitted underwear, Men's and boys'. Rogers Peet Company. No. 156,915; July 18.
Ladders. Rich Pump and Ladder Company. No. 156,961; July 18.
Lotion, Cosmetic. T. J. Newlyn. No. 156,897; July 18.
Malt extract for food purposes. Pabst Corporation. No. 156,902; July 18.
Marmalades, jams, conserves, etc., Fruit. Phoebe Green Company. No. 156,910; July 18.
Matches. Jönköpings Och Vulcans Tandsticksfabriksaktiebolag. No. 156,885; July 18.
Mayonnaise and Russian dressing. Chevy Chase Food Products Co. No. 156,853; July 18.
Medicinal preparation. Peruna Company. Nos. 156,968–7; July 18.
Medicinal preparations, Certain. M. S. Snow. No. 156,926; July 18.
Milk, Preparations for coagulating or curdling. Chr. Hansen's Laboratory, Inc. No. 156,854; July 18.
Mottoes, Snapping. B. Shackman & Co. Nos. 156,958–9; July 18.
Neckties, Bow. Hewes & Potter. No. 156,878; July 18.
Nuts, Pistachio. Zaloom Brothers. No. 156,945; July 18.
Oil compound. Bay Bee Oil Co. No. 156,835; July 18.
Oil stearin, Cottonseed-. Wyatt Bros. No. 156,973; July 18.
Pepper, allspice, cinnamon, turmeric, ginger, cloves, sage, etc. Worden Grocer Company. No. 156,944; July 18.
Piston rings. Piston Ring Company. No. 156,960; July 18.
Plush goods in the piece. Fred Pearson & Company. No. 156,908; July 18.
Preparation for the treatment of skin diseases. A. H. Tripi. No. 156,968; July 18.
Ribbons for making camisoles. Ernest & Herman Levy, Inc. No. 156,970; July 18.
Roofing, Felt. Stelwagon Manufacturing Co. Nos. 156,962–3; July 18.
Rug, Fabric known as a royal Turkish. W. T. Smith & Son, Inc. No. 156,925; July 18.
Salmon. Frederic Blank & Co. No. 156,842; July 18.
Sardines, Smoked. I. Epstein. No. 156,864; July 18.
Shirts and boys' blouses and play suits, Men's and boys' work. J. C. Penney Co. No. 156,909; July 18.
Silkworm gut leaders and leaders made of other material. Weber Lifelike Fly Co. No. 156,941; July 18.
Sirup, Table. American Molasses Company of New York. No. 156,831; July 18.
Sirup, Table. M. O. Dantzler. No. 156,859; July 18.
Sirup, Table. Croker Packing Co. No. 156,855; July 18.

ALPHABETICAL LIST OF DESIGNS.

Calendar mounting. D. M. Weston. No. 61,265; July 18.
Dish plate or similar article. G. L. Crowell, Jr. No. 61,222; July 18.
Flag for Ireland. P. D. Riordan. No. 61,253; July 18.
Glass dish. C. L. Reizenstein. Nos. 61,247–52; July 18.
Lace. J. Draycott. No. 61,223; July 18.
Lace. H. A. Philips. No. 61,246; July 18.
Lamp shade, globe, or similar article. H. D. McFaddin. No. 61,242; July 18.
Lighting fixtures, Pedestal for. F. Reottges. Nos. 61,258–63; July 18.
Lighting fixtures, Shade for. F. Reottges. Nos. 61,254–7; July 18.
Lighting fixtures, Shade for. F. Roettges. No. 61,264; July 18.
Lighting fixtures, Standard for. J. W. Gosling. No. 61,226; July 18.
Plate or similar article. T. Kotato. Nos. 61,227–41; July 18.
Tire. W. Carnal. No. 61,221; July 18.
Tire tread. H. D. Mitchell. Nos. 61,243–5; July 18.
Toy. M. P. Duryea and C. Ingraham. No. 61,224; July 18.
Tray. J. Gannon. No. 61,225; July 18.
Watch and knife, Combination. W. Ochse. No. 61,220; July 18.

Tabulating machines, Sector control for. W. W. Lasker. No. 1,423,439; July 18.
Talking-machine disk-record cabinet. H. H. Gerstner. No. 1,422,950; July 18.
Tanning drums, Driving means for. E. Roth. No. 1,423,028; July 18.
Temperature-controlling system. P. R. Owens. No. 1,422,886; July 18.
Temperature indicator. L. V. Aronson. No. 1,423,066; July 18.
Tent and bed. F. Ames. No. 1,423,171; July 18.
Theater seat. R. Brooks. No. 1,422,825; July 18.
Thermometer. E. Richardson. No. 1,423,257; July 18.
Threading machines, Cap-feeding device for. G. F. Anderson. No. 1,423,173; July 18.
Tie device. A. S. Mathers. No. 1,423,133; July 18.
Tie holder. W. H. Grainger. No. 1,422,849; July 18.
Tie retainer. W. J. Getsinger. No. 1,423,208; July 18.
Tightener. J. T. Simpson. No. 1,423,162; July 18.
Tile. B. P. Infantino. No. 1,423,117; July 18.
Timepieces, Balance staff for. W. H. H. Needy. No. 1,423,446; July 18.
Tire. W. R. Halfpenny. No. 1,422,851; July 18.
Tire. H. Lobel. No. 1,423,232; July 18.
Tire. D. L. Stouch. No. 1,422,899; July 18.
Tire, Airless. C. H. Braden. No. 1,423,074; July 18.
Tire and rim, Combination. C. O. Lambrement. No. 1,423,435; July 18.
Tire carrier, Spare-. A. D. Crossley. No. 1,422,932; July 18.
Tire chain. L. G. Stukenborg. No. 1,423,470; July 18.
Tire liner. C. F. Hicks. No. 1,423,423; July 18.
Tire, Pneumatic. G. E. and C. A. Stuart. No. 1,423,277; July 18.
Tire protector. H. H. Shannon. No. 1,423,036; July 18.
Tire, Resilient. S. P. Long. No. 1,422,996; July 18.
Tire-rim tool. N. A. Eubank. No. 1,422,948; July 18.
Tire, Vehicle. E. Bylund. No. 1,422,921; July 18.
Tires, Antiskid attachment for elastic. W. T. Rollins. No. 1,423,026; July 18.
Tomatoes, Machine for skinning and coring. H. R. Harding. No. 1,423,421; July 18.
Tongs, Electrically heated. F. O. Brown. No. 1,422,826; July 18.
Tonometer. A. Amsler. No. 1,423,293; July 18.
Tool, Advancing cutter-boring. E. F-G. Gibbs. No. 1,423,209; July 18.
Tool handle. C. A. Walters. No. 1,423,055; July 18.
Tool holder. J. R. Moore. No. 1,423,245; July 18.
Tooth, Artificial. J. E. Rose. No. 1,423,027; July 18.
Toothbrush and dentifrice holder, Combination. L. Dayeh. No. 1,423,405; July 18.
Torpedoes, Depth gear for. H. M. Branham. No. 1,423,179. July 18.
Tow and push bar, Combined. G. M. Colling. No. 1,422,928; July 18.
Toy. J. W. Carlson. No. 1,422,833; July 18.
Toy. E. G. Schreyer. No. 1,423,035; July 18.
Toy piano. G. E. Roberts. No. 1,423,024; July 18.
Toy sprinkler. E. G. Hofmann. No. 1,422,862; July 18.
Tractor. J. W. Lambert. No. 1,423,227; July 18.
Tractor, Farm. E. W. Taber. No. 1,423,046; July 18.
Tractor hitch. O. B. Skonnord. No. 1,423,164; July 18.
Tractor-track obliterator. R. H. Griswold and E. J. Powell. No. 1,422,967; July 18.
Tractor wheel. E. Fenillette. No. 1,422,952; July 18.
Tractor-wheel weight. J. B. Walker. No. 1,423,054; July 18.
Train-control device, Automatic. J. P. Angus. No. 1,423,385; July 18.
Train-speed-control device, Automatic. C. C. Farmer. No. 1,422,844; July 18.
Train-stopping means, Automatic. G. Chromy. No. 1,423,396; July 18.
Transfer reel. P. D. Frazer. No. 1,422,954; July 18.
Transfer mechanism. J. L. Ferguson. No. 1,423,096; July 18.
Transmission device. S. S. Morton. No. 1,423,008; July 18.
Transmission mechanism. R. J. Reiser. No. 1,423,454; July 18.
Transmitters and vacuum-tube amplifiers, Connecting. I. B. Crandall. No. 1,422,837; July 18.
Trap: *See*—
Animal trap.
Trough, Watering. R. Judy. No. 1,422,986; July 18.
Truck. J. T. Lynch. No. 1,423,234; July 18.
Truck coupling. J. H. Cotton and W. L. Burner. No. 1,423,084; July 18.
Trucks, Body for farm. E. R. Hewitt and J. H. Blake, Jr. No. 1,422,859; July 18.
Tube: *See*—
Compressor tube.
Tube compressor. F. S. Hyatt. No. 1,422,864; July 18.
Turbine, Geared. H. F. Schmidt. No. 1,423,459; July 18.
Turbine, Internal-combustion. T. J. Puplett. No. 1,423,453; July 18.
Type carrier. W. W. Lasker. No. 1,423,438; July 18.
Typewriters, Carriage-shifting mechanism for. R. A. Loomis. No. 1,423,443; July 18.
Typewriting machine. P. de Clamecy. No. 1,423,311; July 18.
Unloading apparatus. G. C. Chadwick. No. 1,422,926; July 18.
Vacuum apparatus, Apparatus for maintaining and removing liquid seal for. O. Minton. No. 1,423,242; July 18.
Vacuum jet and system of operating the same. T. L. Davenport. No. 1,423,198; July 18.
Valve. T. Brabson. No. 1,423,178; July 18.
Valve. T. W. Lees. No. 1,423,340; July 18.
Valve and gauge, Maximum-pressure inflating. S. B. Noé. No. 1,423,447; July 18.
Valve construction. G. E. Hazard. No. 1,423,323; July 18.
Valve mechanism. F. L. Hutchinson. No. 1,422,980; July 18.
Valve, Relief. A. R. Miller. No. 1,423,135; July 18.
Valve, Safety gas. E. H. Neviczky. No. 1,423,010; July 18.
Valve tool. C. D. Sevier and F. P. Eckroat. No. 1,422,800; July 18.
Vanity box. F. S. Hyatt. No. 1,422,981; July 18.
Vanity case. O. J. Cathcart. No. 1,423,079; July 18.
Vehicle, Electric motor. J. K. Delano. No. 1,423,090; July 18.
Vehicle fender. H. Caplan. No. 1,423,186; July 18.
Vehicle signal. H. A. Whitman. No. 1,423,285; July 18.
Vehicle spring. J. M. Gaar. No. 1,422,956; July 18.
Vehicle suspension, Equalizer for. W. E. Brobst, Jr. No. 1,423,180; July 18.
Vehicle top, Foldable. J. T. Wolfe. No. 1,423,061; July 18.
Vehicles, Stabilizing means for suspended. H. Mercier. No. 1,423,002; July 18.
Venereal disease, Treatment for. W. E. Craig. (Reissue.) No. 15,411; July 18.
Vermin exterminator. W. W. Camp. No. 1,422,831; July 18.
Violins and analogous string instruments, Attachment for. W. I. Brown. No. 1,422,827; July 18.
Wagon-gate construction. G. W. and C. E. Goss. No. 1,422,962; July 18.
Wall construction, Sheet-piling. C. S. Boardman and C. C. Conkling. No. 1,422,821; July 18.
Walls, making blocks, slabs, tiles, or briquettes, Mold for use in building. B. Scruby and G. K. Harkness. No. 1,423,461; July 18.
Washing machine. A. F. Anderson. No. 1,423,295; July 18.
Washing machine. C. W. Dunmire and S. C. Enck. No. 1,422,940; July 18.
Washing machines, Driving mechanism for. W. Erni. No. 1,422,843; July 18.
Watch-chain fastener. J. Loman. No. 1,422,872; July 18.
Watches, Shipping package for. H. C. Karr. No. 1,423,329; July 18.
Water alarm, Low-. C. A. Kothe. No. 1,422,870; July 18.
Water-cooling system, Automatic. O. A. Labus. No. 1,423,337; July 18.
Water for softening, sterilizing, and like purposes, Treatment of. H. J. Magrath. No. 1,423,132; July 18.
Water heater. G. L. Ebbenga. No. 1,422,941; July 18.
Water jet and suction apparatus and means for operating same, Combined. L. Larsen. No. 1,423,436; July 18.
Water-tube boiler. K. Värsmann. No. 1,423,372; July 18.
Wave-energy direction, Determination of. M. Mason. No. 1,422,876; July 18.
Wave motor. O. Hultberg. No. 1,423,115; July 18.
Wheel: *See*—
Car wheel.
Disk wheel.
Laminated composite wheel.
Metal wheel.
Steel cushion wheel.
Tractor wheel.
Wheel, Resilient. A. F. Batchelder. No. 1,423,299; July 18.
Wheels, Producing. J. L. Hellen. No. 1,423,109; July 18.
Wheelbarrow. W. E. Showalter. No. 1,422,893; July 18.
Window. B. Whibley. No. 1,423,057; July 18.
Window cleaner. A. Meconi. No. 1,423,239; July 18.
Window-mounting device. H. Faurot, Jr. No. 1,422,951; July 18.
Window-sash fastener. A. E. Davis. No. 1,423,310; July 18.
Window shield, Bank-. H. W. Huntress. No. 1,423,327; July 18.
Wire, Bundled. S. E. Cary. No. 1,423,478; July 18.
Wire-fence tightener. C. Gushwa. No. 1,423,211; July 18.
Woodworking machine. J. Hanson. No. 1,422,971; July 18.
Wrapping machine. F. Heath. No. 1,423,324; July 18.
Wrench. J. S. McKibbon. No. 1,423,499; July 18.
Wrench. J. Mumford. No. 1,423,247; July 18.
Wrench. R. H. Owens. No. 1,423,142; July 18.

Potassium compounds, Extraction of. W. Glaeser. No. 1,422,848; July 18.
Pottery kiln, Gas fired. A. M. Duckham. No. 1,423,408; July 18.
Power press for tile, mosaics, and the like. D. Crossley. No. 1,423,401; July 18.
Power transmission apparatus, Fluid. J. H. Bair. No. 1,423,386; July 18.
Power transmission mechanism. R. T. Cooke. No. 1,422,929; July 18.
Pressed steel wheel. J. Ledwinka. No. 1,423,229; July 18.
Presses, Automatic feeder for. P. W. Barker. No. 1,422,914; July 18.
Pressure generator. A. T. Kasley. No. 1,423,330; July 18.
Printing machine. J. Heberling. No. 1,423,325; July 18.
Printing plates, Securing means for. C. A. Meisel. No. 1,423,486; July 18.
Printometer bracket. C. E. Brown. No. 1,423,182; July 18.
Propeller blades, Machine for planing or machining. G. A. Clavey. No. 1,423,307; July 18.
Protector. M. G. Darling. No. 1,423,402; July 18.
Pulley. M. F. Williams. No. 1,423,476; July 18.
Pulley, Clutch. J. F. McNally and R. A. Bradley. No. 1,422,873; July 18.
Pump. L. H. Haney. No. 1,423,496; July 18.
Pump and pumping system. B. S. Aikman. No. 1,423,291; July 18.
Pump, Centrifugal. W. F. Trenary. No. 1,423,369; July 18.
Pump mechanism. E. B. Thompson. (Reissue.) No. 15,415; July 18.
Pump plunger. E. C. Critchlow. No. 1,423,197; July 18.
Pumps, Gear for well. H. W. Gerken. No. 1,423,102; July 18.
Pyrotechnic composition. W. T. Scheele. No. 1,423,264; July 18.
Radiator, Electric. C. F. Smith and G. E. Curtiss. No. 1,423,039; July 18.
Radiator pet-cock attachment. M. H. Bose. No. 1,422,919; July 18.
Radiator, Sectional. R. Oshkosh. No. 1,423,449; July 18.
Radio transmission. H. W. Nichols. No. 1,422,882; July 18.
Rails, Tie plate for. E. N. Johnson. No. 1,422,983; July 18.
Railway signaling device. O. Green. No. 1,423,318; July 18.
Railway switch. J. D. Cooper. No. 1,422,836; July 18.
Railway switch. J. T. Moore. No. 1,423,005; July 18.
Railway-switch lock. A. G. Grant and J. J. Fanning. No. 1,422,963; July 18.
Railroad-switch throw and lock, Automatic. F. H. Martin. No. 1,423,351; July 18.
Rain cape. L. H. Geis. No. 1,423,315; July 18.
Razor, Safety. O. L. Glaser. No. 1,423,414; July 18.
Receptacle holder. O. O. Sheline. No. 1,423,465; July 18.
Receptacles, Sput for metallic. H. S. Reynolds. (Reissue.) No. 15,413; July 18.
Recording instrument, Multiple. R. P. Brown and F. Wagner. No. 1,422,920; July 18.
Reel: *See*—
  Transfer reel.
Reenforcing bar, Deformed. J. T. Simpson. No. 1,423,163; July 18.
Refrigerating apparatus, Controlling mechanism for. C. C. Hansen. No. 1,422,853; July 18.
Register-operating mechanism. R. E. Kimball. No. 1,423,333; July 18.
Retort. F. J. Metzger. No. 1,422,878; July 18.
Rim, Demountable. W. E. Beeman. No. 1,423,176; July 18.
Rim, Demountable. S. W. Swanson. No. 1,423,471; July 18.
Rim, Demountable. F. H. Van Loozen. No. 1,423,283; July 18.
Rims, Cutting over metal. A. L. Johnson. No. 1,423,222; July 18.
Ring: *See*—
  Dustproof oil ring. Spinning ring.
  Finger ring.
Rivet-setting machines, String holding and cutting adjustment for. H. Parkinson. No. 1,423,250; July 18.
Road-building apparatus. C. A. Smith. No. 1,422,895; July 18.
Rolling machine. E. E. Slick. No. 1,423,268; July 18.
Rotary machine. F. Egersdörfer. No. 1,422,946; July 18.
Rubber heel. A. Costantino. No. 1,423,399; July 18.
Rubber, Manufacture of sponge. A. J. Ostberg and A. Kenny. No. 1,422,884; July 18.
Rubber or the like to fabrics, Machine for applying solutions of. A. Boecler. No. 1,422,822; July 18.
Rule and pencil holder, Mechanic's. J. R. Platt. No. 1,423,359; July 18.
Safes or other enclosures, Device for protecting. G. W. Tiffany. No. 1,422,903; July 18.
Sand-blast apparatus. H. F. Liedtke. No. 1,423,128; July 18.
Sand-pipe heater. C. B. Johns. No. 1,423,429; July 18.
Sanitary container. G. Korittke. No. 1,423,336; July 18.
Sash holder, Window. H. L. Scholl. No. 1,423,034; July 18.
Saw for cutting metals. P. V. Vernon. No. 1,423,504; July 18.
Saw, Pruning. A. Slothower. No. 1,423,506; July 18.
Saw, Wood. W. Shepherdson. No. 1,423,159; July 18.
Scaling instrument, Proportional. J. D. Carter. No. 1,422,925; July 18.
Scissors. E. Levy. No. 1,423,127; July 18.
Screening apparatus. M. P. Reynolds. No. 1,423,021; July 18.
Screw gauge. C. A. Ledell. No. 1,423,339; July 18.
Screw propeller and the like. A. A. Holle. No. 1,423,113; July 18.
Seat: *See*—
  Spring seat. Theater seat.
Sealing machine, Carton-. J. L. Ferguson. No. 1,423,004;
Sealing vacuum jackets, Method of and apparatus for. J. L. Fate. No. 1,423,093; July 18.
Seam for sewed articles. A. H. De Voe. No. 1,423,479; July 18.
Searchlights, Electric arc mechanism for. L. C. Josepns, Jr. No. 1,423,497; July 18.
Seat cover. E. Wittcoff. No. 1,422,908; July 18.
Sewing machine. G. S. Gatchell. No. 1,423,205; July 18.
Sewing-machine bobbin case. L. E. Weaver. No. 1,423,056; July 18.
Sewing-machine frame. J. R. Moffatt. No. 1,423,243; July 18.
Sewing machines, Spool holder for. H. A. Meissel. No. 1,423,487; July 18.
Shaker screen, Revolving. J. C. Uhlarik. No. 1,423,370; July 18.
Shaping machine. W. T. Sears. No. 1,423,266; July 18.
Sheet metal, Device for producing extruded. A. F. Rockwell. No. 1,423,381; July 18.
Shipping case, Wooden. A. H. Godkevitch. No. 1,423,317; July 18.
Shock absorber. H. B. Morgan. No. 1,423,006; July 18.
Shoe. E. Magaldi. No. 1,423,445; July 18.
Shoehorn. I. O. Harms. No. 1,423,422; July 18.
Shuttle attachment. H. L. Fonner. No. 1,423,099; July 18.
Sign carrier. J. D. Austin and T. Roberts. No. 1,422,911; July 18.
Signal: *See*—
  Vehicle signal.
Signaling machines, Reading ribbon in. W. Dougall. No. 1,422,842; July 18.
Signaling method and apparatus. D. G. McCaa. No. 1,423,345; July 18.
Silk, Composition for the treatment of artificial. C. A. Snyder. No. 1,423,041; July 18.
Silo fillers, Corn-snapping mechanism for. G. F. Norton and E. A. Ende. No. 1,423,138; July 18.
Soldering device. A. W. Bjorkman. No. 1,422,917; July 18.
Sole-softening machine, Leather-. J. L. Clevenger. No. 1,422,927; July 18.
Soles, Cutting device for leather. G. O. Ferry. No. 1,422,901; July 18.
Sound-box diaphragm. H. L. Tifft. No. 1,423,368; July 18.
Spark intensifier. M. J. Freeman. No. 1,423,204; July 18.
Spark plug. D. M. Hutchinson. No. 1,423,219; July 18.
Speedometer, Recording. M. W. Koski. No. 1,422,990; July 18.
Spring: *See*—
  Vehicle spring.
Spinning ring. C. A. Holt. No. 1,423,216; July 18.
Spring motor. L. Schmitt. No. 1,423,032; July 18.
Spring-motor-winding mechanism. O. C. Leger. No. 1,423,230; July 18.
Spring rings and manufacturing same, Bolt for. L. Lemaitre. No. 1,423,441; July 18.
Spring seat. L. Schreiber. No. 1,423,460; July 18.
Spring suspension. V. W. Pagé. No. 1,423,451; July 18.
Sprinkler: *See*—
  Toy sprinkler.
Sprinkler head. T. J. Madigan. No. 1,422,875; July 18.
Stable appliance. R. Minshull. No. 1,423,241; July 18.
Stair landing or platform. A. J. Hall. No. 1,423,481; July 18.
Stand: *See*—
  Display stand.
Starting and unloading device. F. B. Thomas. No. 1,422,902; July 18.
Steam boiler with forced-draft furnace. C. Kohler. No. 1,423,335; July 18.
Steel-cushion wheel. A. C. Hoof. No. 1,422,976; July 18.
Steel, Manufacture of open-hearth. H. C. Ryding and A. W. Allen. No. 1,423,031; July 18.
Stereotype-casting frame. J. W. Peckham. No. 1,423,146; July 18.
Stocking-machine, Circular. G. P. Bosworth. No. 1,423,177; July 18.
Stop motion. E. F. and J. F. Connell. No. 1,423,398; July 18.
Stove, Collapsible field. I. C. Popper. No. 1,423,252; July 18.
Stoves and ranges, Hinge for. S. W. Palmer. No. 1,423,012; July 18.
Stringing and making the same, Elastic metal. W. A. Larned. No. 1,422,993; July 18.
Superheater. E. H. Foster. No. 1,422,847; July 18.
Switch: *See*—
  Electric switch. Railway switch.
  Lamp switch.
Tableware, Display roll for flat metal. J. G. Ludium. No. 1,423,483; July 18.

Knitting machine. H. T. Ballard. No. 1,423,175; July 18.
Laminated composite wheel. H. N. Atwood and G. B. Bains, 3d. No. 1,422,813; July 18.
Lamp. A. A. Ketchem. No. 1,423,433; July 18.
Lamp shade. M. Greitzer. No. 1,423,319; July 18.
Lamp switch, Electric-. E. C. Leachman. No. 1,423,228; July 18.
Lamps, Holder for electric. J. F. King. No. 1,423,119; July 18.
Lathes, Demountable headstock for. A. L. Ligon. No. 1,422,994; July 18.
Laundry-tub cover. L. Hirschberg. No. 1,423,215; July 18.
Lay figure, model, or doll, Jointed. C. de Grasse, née Fould. No. 1,422,840; July 18.
Lead blocks, Spar-tree protector and fastening device for high-. W. R. Allen and T. K. McRea. No. 1,423,292; July 18.
Leaf-spring connection. J. J. Rath. No. 1,423,255; July 18.
Lighting fixture. K. Keller. No. 1,423,331; July 18.
Lime and sulphur stabilized with an aromatic compound, Compound of. M. S. Hopkins. No. 1,422,977; July 18.
Liquid-level indicator. S. W. Finch. No. 1,423,411; July 18.
Liquid measuring and dispensing apparatus. T. F. Callahan. No. 1,423,305; July 18.
Lithographic printing machine for direct or offset printing, Rotary. C. L. Stern. No. 1,423,165; July 18.
Lock: *See*—
  Automobile lock. Railway-switch lock.
  Combination lock.
Lock. A. Block. No. 1,422,820; July 18.
Lock. W. O. Coleman. No. 1,423,397; July 18.
Lock. A. G. Delph and R. C. Hemphill. No. 1,422,936; July 18.
Locking device. C. M. Corbett. No. 1,423,194; July 18.
Locomotive stoker. C. H. Jeffers. No. 1,423,221; July 18.
Locomotives, Valve cut-off and speed indicator for. V. Z. Caracristi and A. F. Wallbillich. No. 1,422,832; July 18.
Logging hook. G. Betcher. No. 1,423,301; July 18.
Loom, Automatic filling-replenishing. W. S. Southwick. No. 1,422,897; July 18.
Looms, Replenishing mechanism for multicolor. H. ter Kulle. No. 1,423,279; July 18.
Lubricator. L. E. Osborne. No. 1,423,011; July 18.
Lumber carrier. C. F. Gerlinger. No. 1,422,958; July 18.
Luminous article and making same. W. H. Dey. No. 1,422,841; July 18.
Lunette bracket. L. B. Craig. No. 1,423,196; July 18.
Magneto electric machine. C. Olivetti. No. 1,423,141; July 18.
Mail box in house walls. B. T. Pennig. No. 1,423,251; July 18.
Mast top. G. F. Watts. No. 1,423,377; July 18.
Mat. R. H. Phillips. No. 1,422,887; July 18.
Matrix-making machine. I. N. Zeller. No. 1,423,290; July 18.
Mattress. A. E. Gomes. No. 1,423,416; July 18.
Measuring machine for gauges. R. Hill. No. 1,423,214; July 18.
Mechanical connector. W. H. Michaelsen. No. 1,422,880; July 18.
Melting pot. J. B. McClain. No. 1,423,501; July 18.
Melting tank. G. C. Hellman. No. 1,422,858; July 18.
Metal bodies, Art and mechanism for drawing hollow cylindrical. C. B. Higgins. No. 1,422,974; July 18.
Metal wheel. J. H. Wagonhorst. No. 1,423,373; July 18.
Metals, Dissolving or recovering. H. Bardt. No. 1,423,069; July 18.
Metals from solutions, Precipitating. H. Bardt. No. 1,423,070; July 18.
Meter: *See*—
  Gas meter.
Mill: *See*—
  Cane mill.
Milling machine. W. A. Gruenberg and D. Miller. No. 1,422,850; July 18.
Milling tool. C. J. Converse. No. 1,423,192; July 18.
Mirror, Dental. W. E. Knight. No. 1,423,225; July 18.
Molding machine. R. McClenathen. No. 1,423,349; July 18.
Molding machine. J. T. Pokorny. No. 1,423,020; July 18.
Mop. J. McNaughton. No. 1,423,444; July 18.
Mortar spreader. J. Giovagnoli. No. 1,423,316; July 18.
Motor: *See*—
  Internal-combustion motor. Spring motor.
  Wave motor.
Motor. E. W. Brown. No. 1,423,395; July 18.
Motor adjuncts, Unit assemblage of. V. Link. No. 1,422,995; July 18.
Mower pitman, Automatic. C. Pearson. No. 1,423,013; July 18.
Multimotor, Internal-combustion. F. W. Smith. No. 1,423,365; July 18.
Music-roll cabinet. E. L. Carlson. No. 1,423,078; July 18.
Music rolls and the like, Container for. C. S. Burton. No. 1,422,829; July 18.
Musical instruments, Expression device for automatic. J. C. Hagey. No. 1,422,969; July 18.
Necktie holder. P. Klinkhammer. No. 1,423,498; July 18.
Nitramines, Preparation of aromatic. L. Haas. No. 1,423,494; July 18.
Nut-salting machine. M. Peruzzi. No. 1,423,014; July 18.
Oat groats and the like, Production of. H. C. Otterstedt. No. 1,423,450; July 18.
Oil. W. N. Blakeman, Jr. No. 1,423,392; July 18.
Oil burner. A. A. Riley. No. 1,423,022; July 18.
Oil burner. J. Wilkinson. No. 1,422,907; July 18.
Oil burner, Wickless. A. J. Blackford. No. 1,423,302; July 18.
Oil-burning apparatus. A. P. Broomell. No. 1,423,181; July 18.
Oil can. E. H. Noble. No. 1,423,503; July 18.
Oil cup. F. O. Hoagland. No. 1,423,112; July 18.
Oil-engine, Internal-combustion. K. I. Crossley and W. L. Webb. No. 1,423,088; July 18.
Oil ring, Dustproof. W. Henry. No. 1,422,972; July 18.
Oil, Treating petroleum. R. Cross. No. 1,423,500; July 18.
Oil-well packer. C. M. Heeter. No. 1,423,213; July 18.
Oiling device. P. W. Burke and A. J. Breeding. No. 1,423,077; July 18.
Optical instrument. H. L. de Zeng. Nos. 1,423,091–2; July 18.
Ordnance, High-angle. A. T. Dawson and G. T. Buckham. No. 1,423,404; July 18.
Ore concentrator. W. C. McCoy. No. 1,423,130; July 18.
Outgauge. E. Schmitt. No. 1,423,156; July 18.
Oven, Electric. J. D. Haynsworth. No. 1,422,857; July 18.
Ovens, Utensil-handling device for bake. R. Haas. No. 1,423,320; July 18.
Package blank and package. J. H. Greenstreet. No. 1,422,966; July 18.
Packing, Journal. C. A. Gelin. No. 1,423,207; July 18.
Paint composition. W. N. Blakeman, Jr. No. 1,423,390; July 18.
Paint vehicle. W. N. Blakeman, Jr. No. 1,423,389; July 18.
Paint, Water. A. L. Rice. No. 1,423,256; July 18.
Paints, Pigment composition for. W. N. Blakeman, Jr. No. 1,423,391; July 18.
Pan: *See*—
  Ash pan.
Paper, Device for graduating lines on ruled. B. Shatz. No. 1,422,892; July 18.
Paper dish. E. T. Maxwell. No. 1,423,001; July 18.
Paper file and binder. H. Brundage. No. 1,423,076; July 18.
Paper-folding machine. L. A. Straubel. No. 1,423,276; July 18.
Paper holder. S. Williams. No. 1,423,286; July 18.
Paper-making machines, Attachment for. C. E. Cramer. No. 1,423,400; July 18.
Parachute. C. L. Newman. No. 1,423,248; July 18.
Pasting machine. L. J. Van Guelpen. No. 1,423,282; July 18.
Pastry cones, Machine for and making. W. M. and P. D. Roberts. Nos. 1,423,259–60; July 18.
Pastry products, Machine for baking. W. M. and P. D. Roberts. No. 1,423,258; July 18.
Pen, Fountain. J. A. O'Connor. No. 1,423,448; July 18.
Pencil. H. R. Johnson. No. 1,422,984; July 18.
Percolator. M. L. Warner. No. 1,423,475; July 18.
Phonograph record. J. H. Geddes. No. 1,423,206; July 18.
Phonograph sound box. L. J. Bergdoll. No. 1,423,387; July 18.
Phonographs, Attachment for. C. B. Preston. No. 1,423,360; July 18.
Phonographs, Record turner for. G. R. Knick. No. 1,422,989; July 18.
Photographic-roll-film spool. M. Nicll. No. 1,423,355; July 18.
Photographic roll films, Daylight developing tank for. G. V. Rowden. No. 1,423,457; July 18.
Piano player. C. H. Spencer. No. 1,423,271; July 18.
Pianos and the like, Pneumatic action for player. A. P. Gustafson. No. 1,423,503; July 18.
Pianos, Tracking device for player. G. P. Brand. No. 1,422,824; July 18.
Picture machine, Motion-. N. Power. No. 1,423,452; July 18.
Picture machines, Fire shutter for moving-. J. H. O'Brien. No. 1,423,139; July 18.
Pill counter and bottle filling machine. W. A. Hill. No. 1,422,860; July 18.
Pipe, Apparatus for manufacturing. F. W. Colby. No. 1,422,834; July 18.
Pipeless furnace. C. M. Buller. No. 1,422,828; July 18.
Piston. C. P. Houseman. No. 1,423,425; July 18.
Piston and connecting rod construction. R. A. Lundell. Nos. 1,423,343–4; July 18.
Placard, Business hours. J. T. McNiff. No. 1,423,485; July 18.
Plate envelope. A. P. Hantsch. No. 1,423,420; July 18.
Plates, Separator for storage-battery. G. E. Beck. No. 1,422,815; July 18.
Plug, Drain. W. Grikscheit. No. 1,423,418; July 18.
Pneumatic dispatch-tube carrier, Identifying means for. F. S. Leavett and E. A. Staples. No. 1,423,440; July 18.
Pocket. J. L. Kirk. No. 1,423,434; July 18.
Poke, Cattle. C. F. Schneider. No. 1,423,362; July 18.
Pot: *See*—
  Melting pot.

Burner: *See*—
Fuel burner.
Oil burner.
Burnishing machine. L. J. Van Guelpen. No. 1,423,051; July 18.
Burnishing tool. L. J. Van Guelpen. No. 1,423,052; July 18.
Button, Cuff. M. W. Severance. No. 1,423,267; July 18.
Button remover, Shoe-. O. S. Eller. No. 1,422,947; July 18.
Cabbage cutter. G. Dorcheff alias G. Theodore. No. 1,422,937; July 18.
Cable clamp. D. M. Salter and S. Robichaux. No. 1,423,263; July 18.
Calculator. H. S. Edmondson. No. 1,422,944; July 18.
Cameras, Aerial mounting for. J. Sharpe. No. 1,423,364; July 18.
Can: *See*—
Ice can.
Oil can.
Can-rigniting machine. S. Eberly. No. 1,422,943; July 18.
Cane mill. H. Hurter. No. 1,422,979; July 18.
Canvas, Apparatus for weaving bicycle and auto. A. W. Jansen. No. 1,423,427; July 18.
Car, Charging. F. Flechtl. No. 1,423,314; July 18.
Car door. G. Donahue. No. 1,423,200; July 18.
Car, Dumping. P. Krüger. No. 1,423,121; July 18.
Car end, Corrugated-sheet-metal. W. P. Murphy. No. 1,422,881; July 18.
Car-end wall structure, Reenforced. C. D. Bonsall. No. 1,422,823; July 18.
Car safety gate. J. A. Brooks. No. 1,423,303; July 18.
Car water-closet, Railway-. W. Frank. No. 1,422,953; July 18.
Car wheel. T. W. Williams. No. 1,423,381; July 18.
Cars, Leading truck for railway motor. A. F. Masury and L. C. Josephs, Jr. No. 1,423,238; July 18.
Carbon black and producing same. A. S. Cooper. No. 1,423,193; July 18.
Carbon, Purifying. V. Lenher and F. M. Dorsey. No. 1,423,231; July 18.
Carburetors, Attachment for. L. F. Lieser. No. 1,422,871; July 18.
Carburetors, Heating coil for. E. M. Soreng. No. 1,422,896; July 18.
Card and sign or poster painter's workbench. H. R. Ellis. No. 1,423,201; July 18.
Card holder. A. Anderson. No. 1,423,294; July 18.
Card holder, Index-. W. Hertzberg. No. 1,422,973; July 18.
Card index. J. C. Russell. Nos. 1,423,029–30; July 18.
Card repeating and transposing machine, Jacquard-. L. Herzog. Nos. 1,423,110–11; July 18.
Cards, Manufacturing design. H. Ottolenghi-Wedekind. No. 1,422,885; July 18.
Carpet Sweeper, Suction. J. M. Spangler. (Reissue.) No. 15,414; July 18.
Carriage-operating mechanism. W. W. Lasker. No. 1,423,437; July 18.
Carrier: *See*—
Lumber carrier.
Type carrier.
Carton-handling apparatus. J. L. Ferguson. No. 1,423,097; July 18.
Case: *See*—
Cigarette case.
Vanity case.
Casting machine, Line-slug-. S. A. Bisey. No. 1,423,388; July 18.
Casting machine, Strip-. J. S. Thompson. No. 1,423,474; July 18.
Centrifugal machine. S. H. Hall. No. 1,422,852; July 18.
Centrifugal machine. C. H. Hapgood. No. 1,422,856; July 18.
Centrifugal separator or amalgamator. R. Thayer. No. 1,423,169; July 18.
Chain link. E. W. O. Steudel. No. 1,423,273; July 18.
Chain shackle and making the same. E. Y. Moore. No. 1,423,244; July 18.
Chair base. R. K. Dawson. No. 1,422,933; July 18.
Check protector. C. C. McCombs. No. 1,423,236; July 18.
Chlorinating gaseous hydrocarbons and recovering products therefrom. G. O. Curme, Jr. No. 1,422,838; July 18.
Cigarette case. S. Holtzclaw. No. 1,422,975; July 18.
Cinematographic exhibition, Taking an orchestra conductor for. E. Wolff. No. 1,422,909; July 18.
Clamp: *See*—
Cable clamp.
Forge clamp.
Clock escapement. W. J. Fawver. No. 1,423,410; July 18.
Clutch, Friction. J. H. Glauque and C. Haesler. No. 1,423,413; July 18.
Clutch mechanism. J. A. Heany. No. 1,423,108; July 18.
Clutch-operating mechanism. E. D. Roberts. No. 1,423,023; July 18.
Coal in mines, Extracting. H. Mack. No. 1,422,874; July 18.
Coating composition, Liquid. C. D. Hocker. No. 1,422,861; July 18.
Collapsible box. E. M. Averill. No. 1,422,912; July 18.
Color effects, Producing. A. S. Cushman. No. 1,423,089; July 18.
Combination lock. C. J. Anderson and W. H. Van Dyke. No. 1,423,384; July 18.
Comminuted material, Apparatus for handling. A. G. McGregor. No. 1,422,997; July 18.
Compasa scale. W. V. Pogue. No. 1,423,019; July 18.
Compensating device. J. Gumber and F. F. Fearheiley. No. 1,423,480; July 18.
Computing device. J. G. Clark. No. 1,423,493; July 18.
Concrete pipes, Form for. F. H. Weaver. No. 1,423,284; July 18.
Condiment dispenser or container. C. H. Haesler. No. 1,423,322; July 18.
Confetti bomb. J. Kyriazopoulos. No. 1,423,122; July 18.
Container-arranging apparatus. S. Eberly. No. 1,422,942; July 18.
Container with removable locking cover. G. H. Schwarz and M. Vintschger. No. 1,423,157; July 18.
Containers, Device for operating on. J. L. Ferguson. No. 1,423,098; July 18.
Conveyer. J. L. Ferguson. No. 1,423,095; July 18.
Cooking vessels, Ventilating knob for. M. F. Dean. No. 1,422,935; July 18.
Corn-husking hook. A. D. Wagner. No. 1,422,906; July 18.
Cotton picker. H. W. Taylor. No. 1,423,472; July 18.
Counter. L. E. Jones. No. 1,423,430; July 18.
Coupling. L. W. Kruse. No. 1,422,991; July 18.
Cultivator. R. G. Isley. No. 1,422,982; July 18.
Cultivator, Power. E. A. Johnston and C. W. Mott. No. 1,422,985; July 18.
Cup: *See*—
Oil cup.
Curved surfaces, Method and apparatus for finishing. H. Wesson. No. 1,423,378; July 18.
Cut-off, Pressure-controlled. M. L. Davis and G. W. Cook. No. 1,423,403; July 18.
Cutout, Automatic. B. L. Campbell. No. 1,422,923; July 18.
Cutter: *See*—
Cabbage cutter.
Cutting tool. R. Klenzl. No. 1,422,988; July 18.
Deaf persons, Acoustical aid for. J. P. Maxfield. No. 1,422,877; July 18.
Dehydrator. W. O. Cardin. No. 1,423,188; July 18.
Dental fastening for removable bridges and partial plates. W. L. Withers. No. 1,423,288; July 18.
Depth-indicating device. H. W. King. No. 1,423,118; July 18.
Depth-indicating device. H. W. King. No. 1,423,223; July 18.
Derailer. J. H. Hammontre. No. 1,423,495; July 18.
Derrick. G. F. Watts. No. 1,423,376; July 18.
Detachable handle. B. N. Donley. No. 1,423,406; July 18.
Diaphragm, Iris. R. Klein. No. 1,423,224; July 18.
Direction indicator. W. F. Freeman and V. I. Cilley. No. 1,422,955; July 18.
Disk wheel. J. F. Wilmot. No. 1,423,060; July 18.
Dispensing apparatus. E. P. Baker. No. 1,422,913; July 18.
Dispensing device. A. Alexay. No. 1,423,063; July 18.
Display apparatus, Changing-view. H. M. Russell. No. 1,423,262; July 18.
Display panel. W. R. Minnick. No. 1,423,003; July 18.
Display rack. J. F. Gorman. No. 1,423,417; July 18.
Display stand. J. Kudner. No. 1,423,226; July 18.
Display device. G. M. Franks. No. 1,422,845; July 18.
Distillation, Low-temperature. A. C. Michie and E. G. Weeks. No. 1,423,134; July 18.
Doll, Hula. D. Zaiden. No. 1,423,383; July 18.
Doll, Shimmy. S. Haskell. No. 1,422,855; July 18.
Doll, Walking. D. Zaiden. No. 1,423,382; July 18.
Door-controlling device. H. W. Crane. No. 1,422,931; July 18.
Door, Grain. R. E. Smith. No. 1,423,040; July 18.
Door lock. H. B. McCarty. No. 1,423,484; July 18.
Doors, Lock for sliding. J. C. Fritts. No. 1,422,846; July 18.
Doors of self-discharging receptacles, Locking mechanism for the. P. Krüger. No. 1,423,120; July 18.
Doors, Self-closing and controlling means for. B. Spitzfaden. No. 1,423,467; July 18.
Dough-dividing machine. T. S. Vierow. No. 1,423,371; July 18.
Draft regulators, Mounting for. F. C. Kasch and G. F. Neff. No. 1,422,868; July 18.
Drier. E. B. Ayres and T. H. Rhoads. No. 1,423,298; July 18.
Drier or oven. F. Beers and H. L. Powell. No. 1,422,817; July 18.
Drive mechanism, Power control for. C. W. Anderson. No. 1,422,809; July 18.
Drive mechanism, Ratchet clutch for. C. W. Anderson. No. 1,423,172; July 18.
Duplicator. T. Danheiser and F. F. Fecher. No. 1,422,934; July 18.
Dyes, Cotton. H. Jordan. No. 1,422,866; July 18.
Egg-preserving compound. E. Victorine. No. 1,423,053; July 18.
Eggs, Apparatus for washing and cleaning. C. J. Williamson. No. 1,423,059; July 18.
Electric cables, Terminal box for. C. R. Young and H. N. Van Deusen. No. 1,422,910; July 18.
Electric connector. E. A. Knew. No. 1,422,992; July 18.
Electric controller. N. D. Levin. No. 1,423,126; July 18.
Electric coupling. C. H. Tomlinson. No. 1,422,965; July 18.
Electric heating appliances, Automatic switch for. B. G. C. Stephens. No. 1,422,898; July 18.
Electric switch. H. Catlin. No. 1,423,306; July 18.
Electric switch. C. C. Stirling. No. 1,423,274; July 18.
Electrical conduit system. E. H. Curtis. No. 1,423,309; July 18.

Electrical connector. E. Stranszky. No. 1,423,045; July 18.
Electrical generating system. H. A. Harrington. No. 1,423,107; July 18.
Electrically-heated apparatus. R. F. Wherland. No. 1,423,380; July 18.
Electrodes, Manufacturing. H. Bardt. No. 1,423,071; July 18.
Elevating device. F. Beers and H. L. Powell. No. 1,422,816; July 18.
Embroidery machines, Thread-changing device in. G. Sieber. No. 1,423,160; July 18.
Engine: *See*—
Internal-combustion engine.
Oil engine.
Engines, Fuel adapted for use in internal-combustion. M. C. Whitaker. No. 1,423,058; July 18.
Engines, Means for controlling the supply of combustible mixture to internal-combustion. G. Keith and W. A. Whatmough. No. 1,422,987; July 18.
Engines, Priming and decarbonizing device for internal-combustion. F. D. Maltby. No. 1,422,908; July 18.
Engines, Sparking plug for internal-combustion. S. Remus. No. 1,423,152; July 18.
Engines, Supplying a combustible mixture to internal-combustion. W. H. C. Higgins, Jr. No. 1,423,482; July 18.
Engraving machine. G. R. Worner. No. 1,423,289; July 18.
Envelope-making machines, Drying blower for. A. E. Augustine. No. 1,423,297; July 18.
Esters of dioxydiethyl sulphide and making same. G. Kränzelin and M. Corell. No. 1,422,869; July 18.
Exercising device. L. C. Reeves and M. A. Webb, Jr. No. 1,422,888; July 18.
Explosive material. C. J. S. Lundsgaard and K. T. Herbst. No. 1,423,233; July 18.
Facing tool. J. A. Sharpnack. No. 1,423,462; July 18.
Fan. F. L. McGahan. No. 1,423,348; July 18.
Fastening device. L. Ottinger. (Reissue.) No. 15,412; July 18.
Feeder and thrasher, Extension. C. C. Pfister. No. 1,423,149; July 18.
Fender: *See*—
Automobile fender.
Vehicle fender.
Fiber board. M. Chew. No. 1,423,081; July 18.
Fiber board, Apparatus for producing. M. Chew. No. 1,423,082; July 18.
Fiber board, Producing. M. Chew. No. 1,423,083; July 18
Fiber saver. A. Defela. No. 1,423,199; July 18.
Fibrous-plant-decorticating machine. F. O'Neill, Jr. No. 1,423,357; July 18.
Finger ring. E. C. Blaicher. No. 1,422,819; July 18.
Finger-training device. W. Schmitt-Marcel. No. 1,423,033; July 18.
Fire box. F. L. McGahan. Nos. 1,423,346–7; July 18.
Fire escapes, Extensible ladder for. R. Glasser. No. 1,423,104; July 18.
Firearm. J. D. Pedersen. No. 1,423,358; July 18.
Fish lures, Controller for. C. M. Rodgers and A. W. Wenger. No. 1,423,025; July 18.
Fish stringer. D. Fiske. No. 1,423,203; July 18.
Floor coverings and the like, Strip for. M. Patterson. No. 1,423,143; July 18.
Fluid gauge. J. G. Collison, J. W. Wright, H. M. Filbert, and W. Frank. No. 1,423,191; July 18.
Foldable carton. E. Steudel. No. 1,423,272; July 18.
Foot support. A. Roth. No. 1,423,456; July 18.
Forge clamp. P. A. Leach. No. 1,423,123; July 18.
Frame: *See*—
Beehive comb frame.
Sewing-machine frame.
Fruit-jar cover. W. R. Nipper. No. 1,422,883; July 18.
Fruit seeder and slicer. G. Vañades and J. Koukos. No. 1,423,490; July 18.
Fuel. B. R. Tunison. No. 1,423,048; July 18.
Fuel burner, Fluid. T. S. Derr. No. 1,423,312; July 18.
Fuel burner, Gaseous-. W. Ruff. No. 1,423,155; July 18.
Fuel, Liquid. B. R. Tunison. No. 1,423,050; July 18.
Fuel of liquid type. B. R. Tunison. No. 1,423,049; July 18.
Fuel, Treating pulverized. R. E. H. Pomeroy. No. 1,423,150; July 18.
Fuels, Carbureting liquid. O. P. Amend. No. 1,423,064; July 18.
Furnace: *See*—
Pipeless furnace.
Steam boiler with forced-draft furnace.
Furnace, W. F. Payne. No. 1,423,145; July 18.
Furnace. J. Van Brunt. No. 1,423,281; July 18.
Furnaces, Apparatus for feeding fuel to. V. Karycheff and P. E. Gagarine. No. 1,422,867; July 18.
Furnaces, Gas burner for. C. L. Sharp. No. 1,422,891; July 18.
Fuse emplacing and removing implement. H. B. Bush. No. 1,422,830; July 18.
Gas generating and heating apparatus, Safety device for. W. G. Chausse. No. 1,423,080; July 18.
Gas generator. P. Dorsey. No. 1,422,938; July 18.
Gas meter. T. Horton. No. 1,423,217; July 18.
Gasket, Screen. W. H. Betts. No. 1,422,916; July 18.
Gate: *See*—
Car safety gate.
Gate hinge. H. T. Hacker. No. 1,423,321; July 18.
Gauge: *See*—
Fluid gauge.
Screw gauge.
Gauges, formed bars, profile pieces, etc., Manufacturing counter pieces to. K. Rosak. No. 1,423,154; July 18.
Gear, Change-speed. A. Savary. No. 1,423,458; July 18.
Gear-cutting machine. I. H. Wright. No. 1,423,062; July 18.
Gear, Running. G. R. Richardson. No. 1,423,153; July 18.
Gearing. H. Sieben. No. 1,423,037; July 18.
Gearing, Magneto. C. B. Kitchen. No. 1,423,334; July 18.
Gearing, Variable-speed. M. F. L. A. Aymard. No. 1,423,067; July 18.
Generator: *See*—
Pressure generator.
Glass-drawing machine, Sheet-. O. M. Cox and C. C. Rose. No. 1,423,195; July 18.
Glass tanks, Means for controlling discharge from. E. S. Hutton. No. 1,423,220; July 18.
Glue mixing and preserving apparatus. E. B. Applegate and W. H. Yeomans. No. 1,422,811; July 18.
Glycerin, Recovering. J. A. Steffens. No. 1,423,042; July 18.
Golf clubs, Striker plate for. G. A. Lippincott. No. 1,423,341; July 18.
Grain-grinding machine. J. K. Strachan. No. 1,423,275; July 18.
Gramophones, Automatic stop for. O. O. Storle. No 1,423,044; July 18.
Grease cellar. W. F. Mitchell. No. 1,423,502; July 18.
Grease cups, Automatic filler for. S. Hough. No. 1,422,978; July 18.
Gun, Burglar. F. S. Jobson. No. 1,422,865; July 18.
Gun, Dust. J. F. Lemons. No. 1,423,125; July 18.
Gun sight, Luminous. J. S. Butler. No. 1,423,184; July 18.
Hair-cutting appliance. S. Severson. No. 1,423,363; July 18.
Handle: *See*—
Air-brake handle.
Tool handle.
Detachable handle.
Handle and crank, Combination. P. L. Streit. No. 1,423,460; July 18.
Hanger. W. L. Rivers and G. B. Dixon. No. 1,423,455; July 18.
Hay-rack lift. J. A. Johnson. No. 1,423,328; July 18.
Hay stacker. E. J. Cantwell. No. 1,422,924; July 18.
Headlight. T. W. Post. No. 1,423,253; July 18.
Headlight for vehicles, Dirigible. R. A. Perry. No. 1,423,148; July 18.
Heater: *See*—
Sand-pipe heater.
Water heater.
Heating system, Regulator for vapor. L. A. Cherry. No. 1,423,492; July 18.
Heel or lift, Double-cushioned shoe. M. G. Hart. No. 1,422,854; July 18.
Hinge. J. R. Moody. No. 1,423,004; July 18.
Hinge, Adjustable. W. B. McDonald. No. 1,423,350; July 18.
Hoisting apparatus. L. T. Tucker. No. 1,422,904; July 18.
Holder. M. Glass. No. 1,423,415; July 18.
Holes, Means for drilling polygonal. R. Bartholomäus. No. 1,423,072; July 18.
Homogenizer. L. J. Phelps. No. 1,423,488; July 18.
Homogenizer. E. M. White. No. 1,423,170; July 18.
Hoods to articles, Machine for applying. T. G. McGirr. No. 1,423,237; July 18.
Hook: *See*—
Corn-husking hook.
Logging hook.
Hopper-door mechanism. C. H. Williamson. No. 1,423,287; July 18.
Hose protector. V. H. Fairless. No. 1,423,409; July 18.
Humidifying air. P. de Clamecy. No. 1,422,839; July 18.
Humidor. F. Oakford. No. 1,423,356; July 18.
Hydrocarbon burner. C. E. Corado. No. 1,422,930; July 18.
Ice can. H. G. Tallerday. No. 1,423,278; July 18.
Ignition device, Make-and-break. M. Murray. No. 1,423,137; July 18.
Indicator: *See*—
Direction indicator.
Liquid-level indicator.
Ink and making same. E. S. Garvey. No. 1,422,957; July 18.
Ink, Invisible. C. F. Morse. No. 1,423,346; July 18.
Intermittent-grip device. S. S. Morton. No. 1,423,007; July 18.
Internal-combustion engine. W. D. Appel. No. 1,422,810; July 18.
Internal-combustion engine. F. Birchbauer. No. 1,423,477; July 18.
Internal-combustion engine. K. L. Crossley and W. L. Webb. Nos. 1,423,085–7; July 18.
Internal-combustion engine. P. Dougall. No. 1,423,407; July 18.
Internal-combustion motor. A. Behn and J. G. Schmitt. No. 1,423,073; July 18.
Ironing board, stepladder, and house truck, Combined. H. C. Snook. No. 1,423,366; July 18.
Ironing machine. W. E. Baker. No. 1,423,068; July 18.
Journal boxes and producing the same, Cooling compound for hot. J. Q. Gill. No. 1,423,103; July 18.
Key-carrying chain. B. Urich. No. 1,423,280; July 18.
Key holder. G. R. Perry. No. 1,423,147; July 18.
Kiln: *See*—
Pottery kiln.
Kiln and process, Drying. M. L. Mueller. No. 1,423,136; July 18.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrasive elements. Staggered-tooth cutter for dressing. F. C. Brandenburg. No. 1,423,075; July 18.
Accelerator, Foot. H. V. Souders and J. M. Frost. No. 1,423,489; July 18.
Acid, Manufacture of 9.10-dibalogenanthracene-β-monosulphonic. K. Schirmacher. No. 1,422,889; July 18.
Addressing-machine impression mechanism. C. Chisholm. No. 1,423,189; July 18.
Aeroplane. C. D. McNamara. No. 1,423,131; July 18.
Air-brake handle. W. E. Cady. No. 1,423,185; July 18.
Air cleaner. H. H. Garner. No. 1,423,412; July 18.
Aircraft, Landing light or flare for attaching to. H. E. S. Holt. No. 1,423,326; July 18.
Airplane-landing director. B. S. Cameron. No. 1,429,922; July 18.
Alarm: *See*—
Water alarm.
Alloy and producing same. C. A. Laise. No. 1,423,338; July 18.
Aminoalcohols, Preparing optically active aromatic A. Gams and E. Wybert. No. 1,423,101; July 18.
Amusement device. E. U. Jaques. No. 1,423,428; July 18.
Angle bar and nut lock. J. J. Bowman. No. 1,423,394; July 18.
Angle of allowance in front on attacking a moving target, Telescopic device for determining the. H. Techel. No. 1,423,168; July 18.
Animal trap. C. C. Rockwell. No. 1,423,261; July 18.
Animal trap. A. Skubinski. No. 1,422,894; July 18.
Antiskid-chain-tightening device. P. E. Fellows. No. 1,423,202; July 18.
Arsenical compounds, Manufacture of. K. B. Edwards. No. 1,422,945; July 18.
Ash hopper. A. P. Strong. No. 1,422,900; July 18.
Ash pan. C. F. Milholen. No. 1,423,352; July 18.
Ash tray and receptacle. S. Meyer. No. 1,422,879; July 18.
Asbestos-cement product and forming the same. R. V. Mattison. No. 1,423,000; July 18.
Auto theft protection. A. Kendechy. No. 1,423,432; July 18.
Automobile and other wheels, Rim and tire for. I. Benjamins. No. 1,422,818; July 18.
Automobile direction signal. T. S. Opheim. No. 1,423,249; July 18.
Automobile direction signal. O. M. West. No. 1,423,379; July 18.
Automobile driver's seat, Ventilated. D. Benson and G. K. Bruce. No. 1,422,915; July 18.
Automobile fender. H. Caplan. No. 1,423,187; July 18.
Automobile frame. A. Melidona. No. 1,423,240; July 18.
Automobile, Gasoline-electric. F. G. Le Merle, M. J. Ullman, and J. E. Barry. No. 1,423,124; July 18.
Automobile intention-signaling device. E. T. Gibson. No. 1,422,960; July 18.
Automobile lock. D. C. Smith. No. 1,423,269; July 18.
Automobile side curtain. C. H. and L. Gillig. No. 1,423,210; July 18.
Automobile wheel rim. G. T. Nichols. No. 1,423,354; July 18.
Automobiles, Auxiliary gasoline tank for. D. Sewell. No. 1,423,158; July 18.
Automobiles, Transmission gear for. G. O. Howeth. No. 1,423,426; July 18.
Awning, Windshield. E. H. Hutcheson. No. 1,423,116; July 18.
Ax, Brush and chopping. O. E. Olesberg. No. 1,423,140; July 18.
Axis aileron, Transverse. J. P. Tarbox. No. 1,423,166; July 18.
Axis aileron, Vertical. J. P. Tarbox. No. 1,423,167; July 18.
Backband. R. W. Paul. No. 1,423,144; July 18.
Bar: *See*—
Tow and push bar. Reenforcing bar.
Barrel. J. R. Raible. No. 1,423,254; July 18.
Basket. C. Halaska. No. 1,423,419; July 18.
Batter, Mechanical. C. H. Muckenhirn. No. 1,423,009; July 18.
Battery filler. A. A. Boston. No. 1,423,393; July 18.
Bearing. P. A. E. Armstrong. No. 1,422,812; July 18.
Bearing construction for fans. L. Schwitzer. No. 1,423,265; July 18.
Bearing, Disk. J. C. Bohmker. No. 1,422,918; July 18.
Bearing, Roller. W. D. Burns. No. 1,423,304; July 18.
Bearing, Self-adjusting. H. Glass. No. 1,422,961; July 18
Bed bottom. S. L. Arnold. No. 1,423,065; July 18.
Beds, Attachment for. E. B. Down. No. 1,422,939; July 18.
Bedspring attachment. R. B. Gallagher and R. C. Young. No. 1,423,100; July 18.
Beehive comb frame. D. S. Hall. No. 1,423,212; July 18.
Beet topper. S. C. Warner. No. 1,423,374; July 18.
Belt and the like. K. Matheus. No. 1,422,999; July 18.
Belt, Sanitary. D. Morner. No. 1,423,353; July 18.
Binder. W. P. Pitt. No. 1,423,016; July 18.
Binder and stand therefor, Loose-leaf. C. R. Fargo and P. O. Unger. No. 1,422,950; July 18.
Binder, Temporary. F. D. Pitt and G. W. Newman. No. 1,423,015; July 18.
Blade shroud, Interlocking. J. E. Snyder. No. 1,423,466; July 18.
Blanks, Folder for prescription. R. B. and L. Taylor. No. 1,423,473; July 18.
Blast furnaces and the like, Sealing of cracks in the lining of. T. Kennan. No. 1,423,332; July 18.
Blower. G. Clements. No. 1,423,190; July 18.
Bobbin winder. P. F. Douglas. No. 1,423,313; July 18.
Body member, Artificial. R. F. Armstrong. No. 1,423,296; July 18.
Boiler: *See*—
Water-tube boiler.
Boilers, Apparatus for the liquid-fuel firing of steam. W. M. Burdon. No. 1,423,183; July 18.
Book and savings bank combined, Bank. E. D. Smith. No. 1,423,270; July 18.
Book-cover-attaching means. F. D. Pitt. No. 1,423,017; July 18.
Book, Savings and insurance account. E. J. House. No. 1,423,114; July 18.
Books, Cover-attaching means for. W. P. Pitt. No. 1,423,018; July 18.
Books, Stiffener for folding. W. O. Lynch. No. 1,423,129; July 18.
Boot and shoe. E. B. Hafertepen. No. 1,422,968; July 18.
Boot top. C. Tweedie. (Reissue.) No. 15,416; July 18.
Bottle cap. S. Hansen. Nos. 1,423,105–6; July 18.
Bottle cap. O. Kampfe. No. 1,423,431; July 18.
Bottle cap, Poison-. W. H. Armstrong. No. 1,423,174; July 18.
Bottle, Nursing. V. I. Sims. No. 1,423,038; July 18.
Bottle-washing apparatus, Label separator and remover for. C. H. Loew and J. R. Gruetter. No. 1,423,342; July 18.
Bottles, Portable hand tool for capping, sealing, and unsealing. O. A. Hanford. No. 1,422,970; July 18.
Bottles, Stopper for hot-water. A. B. Shaw. Nos. 1,423,463–4; July 18.
Box: *See*—
Collapsible box. Phonograph sound box.
Fire box. Vanity box.
Box and attachment therefor. E. C. J. Lloyd. No. 1,423,442; July 18.
Boxes, cans, and other articles, Machine for washing. G. S. Blakeslee. No. 1,423,300; July 18.
Boxes, Tool for closing wire-bound. J. H. Greenstreet. No. 1,422,965; July 18.
Bracket: *See*—
Lunette bracket. Printometer bracket.
Brake beam. C. F. Huntoon. No. 1,422,863; July 18.
Brake-rod adjuster. R. C. McArthur. No. 1,423,235; July 18.
Brick. J. E. Evans. No. 1,422,940; July 18.
Broiling and toasting food, Kitchen utensil for. A. Condy. No. 1,422,835; July 18.
Broom holder. F. H. Steinhelser. No. 1,423,043; July 18.
Brushes or brooms, Removable-handle mechanism for. W. and E. Prestwich. No. 1,423,151; July 18.
Bucket. W. L. Thompson. No. 1,423,047; July 18.
Bucket, Well. J. M. Holliday. No. 1,423,424; July 18.
Buckets, Pin stop for dredge. M. L. Summers. No. 1,423,367; July 18.
Buckle, Belt. W. A. Hurst. No. 1,423,218; July 18.
Budding implement. V. Calandra. No. 1,423,491; July 18.
Building block and wall construction. W. C. Bartelt. No. 1,422,814; July 18.
Building construction. J. T. Simpson. No. 1,423,161; July 18.
Building construction. F. Watt. No. 1,423,375; July 18.
Building, Wooden. J. G. Stadelman. No. 1,423,468; July 18.
Buildings and other structures, Staging for. S. S. Colt. No. 1,423,308; July 18.
Bulbs, Device for use in coloring. H. L. Greenbaum. No. 1,422,964; July 18.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Reeves Coal and Dock Co., Minneapolis, Minn. Coal. No. 164,789; July 18.
Reliance Gauge Column Company, The, Cleveland, Ohio. Steam-boiler fittings and furnishings. No. 137,269; July 18.
Rieser Company, The, New York, N. Y. Hair nets. No. 163,178; July 18.
Rieser Company, The, New York, N. Y. Hair nets. No. 163,181; July 18.
Roesch, Anton, doing business as Mi Chemical Co., Chicago, Ill. Antiseptic healing oil. No. 160,261; July 18.
Rogers, Lunt & Bowlen Company, Greenfield, Mass. Babies' and children's tableware, brushes, lockets, etc. No. 146,734; July 18.
Roller Printing and Paper Co., The, Canton, Ohio. Blank paper and envelopes, paper tablets, shipping labels, etc. No. 160,206; July 18.
Royal Exterminating Products, Inc., New York, N. Y. Insect exterminators. No. 156,296; July 18.
Royal Lemon Products Co., St. Paul, Minn. Washing powders. No. 163,414; July 18.
Russell, Herbert S., Pembroke, Mass. Phonograph-record discs. No. 154,286; July 18.
Rutland Fire Clay Co., Rutland, Vt. Liquid stove polish, metal polish, enamel cleaner, and waste-pipe cleaner. No. 162,452; July 18.
Ryan, Frank, trading as Oriole Belt Dressing Co., Baltimore, Md. Belt dressing. No. 161,749; July 18.
Salisbury, W. H., & Company, Incorporated, Chicago, Ill. Rubber tiling for floors. No. 160,157; July 18.
Salomon & Weiner, Inc., New York, N. Y. Unmanufactured fur. No. 162,857; July 18.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, capes, suits, etc. No. 159,116; July 18.
Sandow Tool Co., U. S. A., New York, N. Y. Metal shoe shanks. No. 150,709; July 18.
Saunders, James R., Chicago, Ill. Soap. No. 162,359; July 18.
Scovil, Cora L., New York, N. Y. Dolls. No. 164,722; July 18.
Scully Brothers & Co., Inc., New York, N. Y. Ladies' trimmed hats. No. 156,759; July 18.
Serviciaed Products Company. (See Fischer, Albert C.)
Shackman, B., & Co., New York, N. Y. Snapping mottoes. No. 164,121; July 18.
Shackman, B., & Co., New York, N. Y. Snapping mottoes. No. 164,124; July 18.
Sidenberg, G., & Co., New York, N. Y. Laces and nets in the piece. No. 152,934; July 18.
Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 157,961; July 18.
Solacene. (See Tizzard, Samuel B.)
Solar Electric Company, Chicago, Ill. Soap. No. 159,535; July 18.
Spalding, A. G., & Bros., New York, N. Y. Golf balls. 162,959; July 18.
Stack Heater Company, Boston, Mass. Temperature-controlled valves, relief valves, vacuum valves, and pipe fittings. No. 155,276; July 18.
Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. No. 161,803; July 18.
Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. No. 161,857; July 18.
Standard Oil Company of New York, New York, N. Y. Crayons. No. 162,903; July 18.
Stanley, John T., Co. Inc., New York, N. Y. Oil soap. No. 161,654; July 18.
Staso Laminated Slate Company, Chicago, Ill. Crushed slate for use as a surfacing grit for prepared roofings. No. 139,722; July 18.
Storm Manufacturing Company, Minneapolis, Minn. Boring tools and machines, reamers, milling machines, etc. No. 143,839; July 18.
Stoughton, Minnie L., Camden, N. J. Book covers. No. 159,222; July 18.
Stronghart Company, Chicago, Ill. Small portable savings banks and safes. No. 129,479; July 18.
Suess, J. Paul, Williamsport, Pa. Remedy for chapped hands, salt rheum, chafing, and sunburn. No. 160,084; July 18.
Tell-Stop Appliance Company, The, Cleveland, Ohio. Electric stop and direction signal lamp systems for vehicles. No. 155,525; July 18.
Tennessee Eastman Corporation, Kingsport, Tenn. Charcoal not specially prepared for decolorizing or deodorizing. No. 160,518; July 18.
Thomas Moulding Brick Company, Chicago, Ill. Mastic flooring. No. 163,903; July 18.
Tizzard, Samuel B., doing business as Solacene, Los Angeles, Calif. Liniment for external application for dressing wounds, scalds, burns, etc. No. 160,266; July 18.
Trancella Company. (See Bendick, Sidney S.)
Tribune Company, The, Chicago, Ill. Sheet paper for printing and writing. No. 157,592; July 18.
Turner & Stroock, Inc., New York, N. Y. Cloth made of artificial silk. No. 163,298; July 18.
Turner & Walls, New York, N. Y. Shirtings in the piece woven from silk, cotton, or mixture of the same. No. 163,297; July 18.
Union Drop Forge Company, Chicago, Ill. Drop forgings. No. 156,938; July 18.
United Turkey Red Company, Limited, Glasgow, Scotland. Cotton table covers, handkerchiefs, doilies, etc. No. 156,767; July 18.
Utica Infant Wear Corporation, Utica, N. Y. Diapers. No. 159,637; July 18.
Van De Carr Paper Company, Stockport, N. Y. Paper for wrapping and packing purposes. No. 159,191; July 18.
Van Lopik, Garrett P., doing business as G. P. Van Lopik & Co., Grand Haven, Mich. Misses' and children's dresses. No. 159,670; July 18.
Velo y Filgueira, Angel, Habana, Cuba. Mineral water. No. 140,085; July 18.
Victor-Monaghan Company, Greenville, S. C. Cotton piece goods. No. 163,953; July 18.
Wallace & Tiernan Co., Inc., Newark, N. J. Chlorine-control apparatus, chemical-control equipment for water purification, etc. No. 149,878; July 18.
Wallace & Tiernan Co., Inc., Newark, N. J. Chlorine-control apparatus, chemical-control equipments for water purification, etc. No. 149,880; July 18.
Warren Laboratories. (See Enell, William H.)
Washburn & Granger, Inc., New York, N. Y. Hoists. No. 155,582; July 18.
Wasserman & Goldsmith, New York, N. Y. Hose, ladies' and children's vests and pants, union suits, etc. No. 159,131; July 18.
Well, H. S., Co., The, Cleveland, Ohio. Aprons and house dresses. No. 152,528; July 18.
Western Garment Mfg. Company, Salt Lake City, Utah. Ladies' coats, suits, aprons, and dresses, bath robes, overalls, etc. No. 159,737; July 18.
West, Fred, St. Louis, Mo. Table salt. No. 160,452; July 18.
West-Laboratorium Gesellschaft mit beschränkter Haftung, Hamburg-Billbrook, Germany. Antiseptic preparation whose scientific name is jadsulfonortho-oxy-benzolpyridin. No. 153,494; July 18.
White, Ray E., LaFargeville, N. Y. Ointment for treatment of piles, cuts, sores, burns, frostbites, etc. No. 160,735; July 18.
Wichmann, Henry, Brooklyn, N. Y. Plugs for repairing metal bodies, plates, boilers, tanks, etc. No. 156,320; July 18.
Wilder, Mae E., Rochester, N. Y. Face cream. No. 162,225; July 18.
Wile, E. J., & Co., New York, N. Y. Coats and suits. No. 156,874; July 18.
Wilson Pile Cure Co., Wilson, N. C. Medicinal compound for the treatment of piles, sore feet, and sores. No. 160,839; July 18.
Wilson Utensil Company, Dayton, Ohio. Aluminum cooking utensils. No. 157,462; July 18.
Witherow Steel Company, Pittsburgh, Pa. Rolled iron and steel blanks and shapes. Nos. 162,366–7; July 18.
Wolf, E. A. Paul, Co., New York, N. Y. Loose-leaf devices. No. 162,227; July 18.
Worcester Electric Supply Co., Worcester, Mass. Bicycles. No. 162,080; July 18.
Wright Bindley & Gell Limited, Sheffield and Birmingham, England. Umbrella ribs and stretchers of steel or iron. No. 163,725; July 18.
Zollinger and Schroth, Inc., New York, N. Y. Silk piece goods. No. 163,490; July 18.

Chemische Fabrik von Heyden, Aktiengesellschaft Radebeul, Germany. Solutions for parenteral protein therapeutics. No. 152,954; July 18.
Cladwell Distributing Company, New York, N. Y. Knitted sweaters. No. 156,357; July 18.
Cleveland Metal Products Company, The, Cleveland, Ohio. Oil stoves, burners, and water heaters, and ovens for oil stoves. No. 161,801; July 18.
Cohn & Rosenberger, Inc., New York, N. Y. Bracelets. No. 164,494; July 18.
Cohen, Tully S., doing business as R. Frost & Co., New York, N. Y. Children's and misses' dresses. No. 154,401; July 18.
Colson, Sarah A. and J. L., administratrices of the estate of Edwin Colson, Elmer, N. J. Seed potatoes. No. 163,672; July 18.
Columbus Manufacturing Company, Columbus, Ga. Cotton sheetings. No. 155,254; July 18.
Compagnie Industrielle et Commerciale du Cycle et de l'Automobile, Neuilly-sur-Seine, France. Mechanically-operated warning devices. No. 142,005; July 18.
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Silk gloves. No. 157,409; July 18.
Corn Products Refining Co., New York, N. Y. Laundry starch. No. 160,049; July 18.
Cortland Line Co. Inc., Cortland, N. Y. Braided cotton fishing lines. No. 164,361; July 18.
Cortland Line Co. Inc., Cortland, N. Y. Japan-silk waterproof fishing lines. No. 164,366; July 18.
Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 164,368; July 18.
Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 164,370; July 18.
Cortland Line Co. Inc., Cortland, N. Y. Oiled-silk fishing lines. No. 164,371; July 18.
Cortland Line Co. Inc., Cortland, N. Y. Braided Japan-silk enameled fishing lines. No. 164,374; July 18.
Cortland Line Co. Inc., Cortland, N. Y. Pure-silk fishing lines. No. 164,385; July 18.
Cortland Line Co. Inc., Cortland, N. Y. Pure Japan-silk fishing lines. No. 164,387; July 18.
Cortland Line Co. Inc., Cortland, N. Y. Fishing lines. No. 164,390; July 18.
Crosfield, Joseph & Sons, Limited, Warrington, England. Bleaching and water softening preparation. No. 160,997; July 18.
D. & M. Healing Salve Co., The. (See De Laporte, Peter A.)
Dae Health Laboratories. (See International Consolidated Chemical Corporation.)
Daniel Brent, doing business as the Radio Instrument Company, Washington, D. C. Radio telegraph and telephone transmitting and receiving apparatus. No. 162,669; July 18.
David, John, New York, N. Y. Men's hats, overcoats, suits, raincoats, sweaters, etc. No. 158,418; July 18.
De Bevoise, Chas. R., Co., Newark, N. J. Brassières. No. 159,307; July 18.
De Bevoise, Chas. R., Co., Newark, N. J. Bandeaux. No. 159,500; July 18.
De Bevoise, Chas. R., Co., Newark, N. J. Brassières. No. 159,744; July 18.
Decker Manufacturing Company. (See Estate of A. C. Decker.)
De Laporte, Peter A., doing business as The D. & M. Healing Salve Co., Lodi, Calif. Salve for the treatment of eczema, itchings, burns, and cuts. No. 129,451; July 18.
Deming Company, The, Salem, Ohio. Pumps. No. 152,549; July 18.
Dietzgen, Eugene, Company, Chicago, Ill. Lead pencils. No. 164,027; July 18.
Dills, Charles, Chicago, Ill. Preparation for the treatment of stomach, bowels, kidney, and heart trouble. No. 160,538; July 18.
Duesenberg Automobile & Motors Co. Inc., Indianapolis, Ind. Motor cars. No. 160,877; July 18.
Eagle Chemical Company, Milwaukee, Wis. Cleansing, sterilizing, and disinfecting compound. No. 162,810; July 18.
Eckl, Edward, Los Angeles, Calif. Refrigerators. No. 160,933; July 18.
Edelman, Philip E., New York, N. Y. Complete loud-speaking wireless receiving sets, radio cabinets, etc. No. 162,616; July 18.
Enell, William H., doing business as Warren Laboratories, Rochester, N. Y. Medicine for stomach troubles. No. 162,388; July 18.
Estate of A. C. Decker, doing business as Decker Manufacturing Company, Keokuk, Iowa. Implement for applying rings to noses of animals. No. 159,856; July 18.
Estate of Edwin Colson. (See Colson, Sarah A. and J. L.)
Everett Electric Corporation, New York, N. Y. Head receivers, condensers, transformers, etc. No. 161,242; July 18.
Fels, Hattie, New York, N. Y. Clothing for children to be worn as an outer garment. No. 158,302; July 18.
Fiat, Turin, Italy. Boards, panels of wood, sheets and panels of veneer, and metal reenforcing bars. No. 148,269; July 18.
Fiat, Turin, Italy. Dynamos, electromotors, alternators, and parts thereof, converters, etc. No. 148,270; July 18.
Fischer, Albert C., doing business as Servicised Products Company, Chicago, Ill. Roofing and barn paints, cold-water, oil, metal, and dampproofing paints. No. 130,819; July 18.
Fishman, Melvin, New York, N. Y. Men's and boys' suits and coats. No. 148,325; July 18.
Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber vehicle tires. No. 161,043; July 18.
Ford & Manion, Inc., Wilmington, Del. Electric heaters for heating liquids. No. 158,674; July 18.
Foster, Merriam & Company, Meriden, Conn. Metallic piston rings. No. 162,106; July 18.
Fowler-Nicolet Co., Inc., Rutland, Vt., and New York, N. Y. Men's shirts and boys' negligee shirts, pyjamas, and night robes. No. 156,786; July 18.
Freedman, A., & Sons, assignors to A. Freedman & Sons Incorporated, Boston, Mass. Boots and shoes. No. 149,278; July 18.
Frost, R., & Co. (See Cohen, Tully S.)
Fuchs & Lang Manufacturing Company, The, New York, N. Y., and East Rutherford, N. J. Printing and lithographic inks. No. 157,419; July 18.
Fulton Drug Co. (See Gunter, Daniel J.)
Gehman & Weinert, Newark, N. J. Electrical apparatus, more particularly tuning-coil sliders. No. 160,548; July 18.
General Steel Products Co., Detroit, Mich. Bar, sheet, and band steel and steel plates. No. 141,302; July 18.
Gerb- und Farbstoffwerke H. Renner & Co. Actien-Gesellschaft, Hamburg, Germany. Solid and liquid tanning extracts. No. 158,473; July 18.
Gillette Safety Razor Company, Boston, Mass. Safety-razor blades. No. 159,148; July 18.
Gilpin, Donald N., doing business as The Kro-Ko Corporation, Baltimore, Md. Insecticides. No. 159,415; July 18.
Glazier Mfg. Company, The, South Glastonbury, Conn. Woolen piece goods. No. 160,758; July 18.
Glemby's, S., Sons Co. Inc., New York, N. Y. Hair nets. Nos. 163,388–90; July 18.
Golde-Patent Manufacturing Co., Inc., New York, N. Y. Waterproofed top and seat cover cloth of a textile material. No. 156,156; July 18.
Goldfarb & Friedberg, Inc., New York, N. Y. White gold. No. 158,183; July 18.
Good, Geo. S., Fire Brick Co., Patton, Pa. Fire bricks and paving blocks. No. 118,560; July 18.
Goodrich, B. F., Company, The, New York, N. Y. Pneumatic-tire casings made of rubber combined with fabric. No. 162,167; July 18.
Graham, William, New York, N. Y. Leather. No. 161,434; July 18.
Grain Juice Company, Dallas, Tex. Beverages sold as soft drinks and sirups for making same. No. 163,442; July 18.
Greenbaum Company, The, Louisville, Ky. Medicated healing ointment or salve. No. 160,546; July 18.
Gsell, Roland A., New York, N. Y. Watches and watch movements, watchcases, and parts thereof. No. 144,617; July 18.
Gundermann, Philip H., doing business as The Atlas Torch Mfg. Co., Chicago, Ill. Plumbers' torches. No. 161,833; July 18.
Gunter, Daniel J., doing business as Fulton Drug Co., Atlanta, Ga. Blood purifier and nerve tonic. No. 157,834; July 18.
Hancock, John W., doing business as J. W. Hancock Electrical Co., Denver, Colo. Electric-light fixtures. No. 162,405; July 18.
Hart & Hegeman Manufacturing Company, The, Hartford, Conn. Electrical switches and pull sockets. Nos. 161,729–30; July 18.
Holmac, Inc., New York, N. Y. Golf balls. No. 165,080; July 18.
Holmac, Inc., New York, N. Y. Golf balls. Nos. 165,376–8; July 18.
Holloway, Alonzo C., Hoisington, Kans. Cough sirup used in the treatment of colds, croup, whooping cough, etc. No. 163,273; July 18.
Hogue, Fred. W., McGregor, Iowa. Liquid preparation for cleaning rugs, carpets, upholstery, etc. No. 163,043, July 18.
Hubbs, Charles F., & Company, New York, N. Y. Wrapping paper. No. 164,250; July 18.
Ideal Linen Mesh Co., Poughkeepsie, N. Y. Shawls and sweaters. No. 159,656; July 18.
International Consolidated Chemical Corporation, Inc., doing business as Dae Health Laboratories, New York, N. Y. Medicinal preparation for malassimilation and nutritional disorders. No. 162,417; July 18.
International Paper Company, New York, N. Y. Paper used for writing and printing purposes. No. 164,166; July 18.
International Welding Engineering Corporation, Chicago, Ill. Arc-welding metal electrodes. No. 162,011; July 18.
Iten Biscuit Co., Clinton, Iowa. Soda crackers. No. 164,251; July 18.
Jamro, Walter, Manchester, N. H. Electrically-operated theft-preventing device. No. 161,839; July 18.

Jemielita, Anthony, New York, N. Y. Electrical generators. No. 159,871; July 18.
John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, cleaning, etc. No. 139,765; July 18.
John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, cleaning, etc. No. 139,830; July 18.
John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, cleaning, etc. No. 139,833; July 18.
John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, cleaning, polishing, and sweeping. No. 140,420; July 18.
Jones Bros. Garment Co., Dubuque, Iowa. Sleeping garments. No. 142,560; July 18.
Jordan Marsh Company, Boston, Mass. Rotary sifters. No. 159,970; July 18.
Jordan, N. W., Hampton, Va. Medicine used in treatment of piles, burns, and itch. No. 157,223; July 18.
Journal Company, Incorporated, Detroit, Mich. Newspaper section. No. 161,629; July 18.
Kabo Company, The, Chicago, Ill. Brassières and corsets. No. 159,468; July 18.
Kandle, J. Harry, Elmer, N. J. Seed potatoes. No. 163,682; July 18.
Karaffa, Andy, Johnstown, Pa. Medicine for rheumatism. No. 156,193; July 18.
Keet & Rountree Dry Goods Company, Springfield, Mo. Overalls, work shirts, jumpers, duck coats, etc. No. 158,619; July 18.
Kent Storage Company, Grand Rapids, Mich. Condensed milk and butter. No. 150,072; July 18.
Klinger, F. W., and Langbein Co., Philadelphia, Pa. Fishing-fly books. No. 164,170; July 18.
Komo Chemical Company, Philadelphia, Pa. Fly liquids, roach powders, liquid sprays. No. 160,497; July 18.
Kro-Ko Corporation, The. (See Gilpin, Donald N.)
Krumrein, John H., doing business as Petsy Manufacturing Company, Baltimore, Md. Hair restorer. No. 160,141; July 18.
Ladyfair Hosiery and Underwear Co. Inc., New York, N. Y. Women's hosiery made of knitted and woven fabrics and underwear. No. 157,276; July 18.
Lane, Arthur E., Lumber Corporation, New York, N. Y. Wood shingles. No. 163,155; July 18.
Lange, W. T., Co., The, Eau Claire, Wis. Coffee. No. 156,392; July 18.
Larkin, John C., New York, N. Y. Hosiery. No. 155,895; July 18.
Lawrenceburg Overall Mfg. Co., Lawrenceburg, Ind. Overalls, jackets, and work shirts. No. 158,876; July 18.
Le Francis Cigar Company, Cambridge, Mass. Cigars. No. 161,007; July 18.
Leah, C. P., Paper Company, Indianapolis, Ind. Paper and envelopes. No. 164,327; July 18.
Linder Bros., Scranton, Pa. Ladies' coats and suits for outer wear. No. 151,879; July 18.
Logan Iron & Steel Company, Philadelphia, Pa. Iron and steel bar metal. No. 156,452; July 18.
Louisville Furnishing Goods Co., Louisville, Ky. Boys' overalls and men's work shirts. No. 159,363; July 18.
Loyd Wireless Telephone Corporation, Dover, Del. Wireless transmitting and receiving apparatus. No. 161,783; July 18.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 155,821; July 18.
Mann, William, Company, Philadelphia, Pa. Checks, check-book cases, check-book covers, safety paper. No. 163,280; July 18.
Mansfield James F., New York, N. Y. Watches and clocks. No. 157,379; July 18.
Marion Foundry Corporation, Marion, Ind. Solid-fuel furnaces, grate frames, grate bars, etc. No. 128,555; July 18.
Marmola Company, Detroit, Mich. Laxatives. No. 153,357; July 18.
Marquette Cement Manufacturing Co., Chicago, Ill. Portland cement. No. 161,846; July 18.
Marret, Bonnin, Lebel & Guieu, Paris, France. Alloys for use in the manufacture of jewelry and jewelers' goods. No. 161,329; July 18.
Marshall Field & Company, Chicago, Ill. Alarm clocks. No. 161,537; July 18.
Masco Drug Company, doing business as Masco Laboratories, Boston, Mass. Chemicals, medicines, and pharmaceutical preparations. No. 151,186; July 18.
Masco Laboratories. (See Masco Drug Company.)
Massage Laboratory. (See Message, Wanda.)
Master Chemical Co., Columbus Junction, Iowa. Embalming fluid. No. 162,187; July 18.
Meier & Frank Co., Portland, Oreg. Fish hooks and flies. No. 165,401; July 18.
Mell, Abraham, New York, N. Y. Hair tonic. No. 163,937; July 18.
Menter Co. Inc., The, New York, N. Y. Coats, vests, trousers, and overcoats. No. 159,163; July 18.
Message, Wanda, doing business as Massage Laboratory, Chicago, Ill. Medicinal bath compound for skin diseases and rheumatic pains. No. 159,276; July 18.
Metadier, Paul, Tours, France. Analgesic tablets for headache, neuralgia, rheumatism, grippe, etc. No. 161,633; July 18.
MI Chemical Co. (See Roesch, Anton.)
Mid-West Manufacturing Company, Minneapolis, Minn. Burnishing compound. No. 162,840; July 18.
Miller & Kent, Bradford, Pa. Puzzle. No. 165,298; July 18.
Miller, Edwin H., New York, N. Y. Clothespins. No. 147,886; July 18.
Miller, Jacob, Sons & Co., Philadelphia, Pa. Men's outer shirts. No. 158,687; July 18.
Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, and linen goods and mixtures of same, all in the piece. Nos. 164,061–2; July 18.
Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, and linen goods and mixtures of cotton and silk and linen and silk, all in the piece. No. 164,063; July 18.
Miller Traction Tread Company, Chicago, Ill. Tractors and parts thereof. No. 158,934; July 18.
Milliken, Foster, New York, N. Y. Electric street signaling lamps. No. 161,893; July 18.
Milton, Michael, doing business as Milton Paper Company, New York, N. Y. Writing paper. No. 122,018; July 18.
Milton Paper Company. (See Milton, Michael.)
Mission Bead Company, Los Angeles, Calif. Writing ink. No. 160,071.
Moore Pen Company, The, Boston, Mass. Fountain pens and lead pencils. No. 160,827; July 18.
Morris, Harry S., New York, N. Y. Ladies' hats. No. 150,456; July 18.
Morris, Mann & Reilly, Inc., Chicago, Ill. Hair nets. No. 164,113; July 18.
Mulhens & Kropff Incorporated, New York, N. Y. Toilet soaps. No. 163,228; July 18.
Muller and Phipps (Asia) Limited, New York, N. Y. Carriage gongs. No. 143,374; July 18.
National Aniline & Chemical Company, Inc., New York, N. Y. Dyes, dyestuffs, and colors. No. 148,509; July 18.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Coal-tar chemicals or intermediates, rubber accelerators or catalyzers, rubber compounding ingredients, and flotation agents. Nos. 161,655–9; July 18.
National Blank Book Co., Holyoke, Mass. Loose-leaf binders and bound blank books and indexes. No. 162,260; July 18.
National Metal Ware Co., Inc., Brooklyn, N. Y. Kitchen utensils of aluminum. No. 123,657; July 18.
Nelscraft, Inc., New York, N. Y. Tailored waists. No. 157,001; July 18.
Nelson's, Hugh, Columbia Carpet Mills, Philadelphia, Pa. Axminster rugs. No. 163,820; July 18.
New England Commercial Co., New York, N. Y. Cotton piece goods. No. 161,505; July 18.
Norris Bros. Inc., Robinson, Ill. Balls and seats and drops for oil-well valves. No. 160,623; July 18.
Northern Jobbing Company, Chicago, Ill. Lye. No. 162,309; July 18.
Nutt, Norman W., Trenton, N. J. Electric-light sockets, switches, plugs, etc. No. 154,612; July 18.
Oriole Belt Dressing Co. (See Ryan, Frank.)
O'Rourke, Frank J., Whitestone, N. Y. Medicines and tonics for colds, grippe, or malarial face creams or lotions, liniments. No. 156,543; July 18.
Pacific Chemical Company, Los Angeles, Calif. Hand soap. No. 162,767; July 18.
Page-Lewis Arms Company, Chicopee Falls, Mass. Rifles. No. 161,790; July 18.
Parisienne Flapper Parasol Company, Mount Vernon, Ind. Novelty parasols. No. 163,697; July 18.
Parsons & Baker Co., The, Phoenixville, Pa. Ladies' underwear. No. 159,218; July 18.
Perfect Garment Co., Baltimore, Md. Middy blouses. No. 158,252; July 18.
Peterson, George G., East Providence, R. I. Ice-cream cabinets. No. 164,556; July 18.
Petsy Manufacturing Company. (See Krumrein, John H.)
Philipsborn's, Inc., Chicago, Ill. Silk taffetas and satin messalines in the piece. No. 163,893; July 18.
Pioneer Instrument Company, Brooklyn, N. Y. Compasses, banking indicators, air-distance recorders, Pitot tubes, etc. No. 138,651; July 18.
Primrose Silk Stores, Inc., New York, N. Y. Silks in the piece. No. 160,971; July 18.
Puritan Drug Mfg. Co., The, Columbus, Ohio. Writing inks. No. 146,654; July 18.
Radio Instrument Company. (See Daniel, Brent.)
Radzevich, Joseph, Waterbury, Conn. Healing salve. No. 161,647; July 18.
Railway and Mine Supply Company, Kincaid, Ill. Cars and roller-bearing trucks, motor and horse drawn, and wheels and axles. No. 160,975; July 18.
Railway Lock-Spike Company, Atlanta, Ga. Railway tie plates. No. 160,207; July 18.

National Fruit Flavor Co., New Orleans, La. Flavoring extracts for non-alcoholic beverages. No. 156,896; July 18.
Newlyn, Thomas J., trading as Beautypeel Cosmetic Co., El Paso, Tex. Cosmetic lotion. No. 156,897; July 18.
Northern California Fruit Co., Lodi, Calif. Fresh deciduous fruits. No. 156,898; July 18.
Northwest Fruit Products Co., Salem, Oreg. Nonalcoholic, maltless beverage of pure fruit juices. No. 156,899; July 18.
Northwestern Yeast Company, Chicago, Ill. Yeast. No. 156,965; July 18.
Nunnally Company, The, Atlanta, Ga. Candy. No. 156,900; July 18.
Ottenheimer, Goldman Co. Inc., The, Baltimore, Md. Certain articles of clothing. No. 156,901; July 18.
Pabst Corporation, Milwaukee, Wis. Malt extract used by bakers for food purposes. No. 156,902; July 18.
Pacific Mills, Boston, Mass. Cotton piece goods. No. 156,903; July 18.
Package Confectionery Company, Boston, Mass. Candy. No. 156,904; July 18.
Palmer Candy Co., Sioux City, Iowa. Candy. No. 156,905; July 18.
Panitz, Isador, Baltimore, Md. Undershirts, drawers, union suits, waists, negligee shirts, pyjamas, and night robes. No. 156,906; July 18.
Pearson, Fred, & Company, Philadelphia, Pa. Plush goods in the piece. No. 156,908; July 18.
Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' work shirts and boys' blouses and play suits. No. 156,909; July 18.
Peruna Cimpany, The, Columbus, Ohio. Certain medicinal preparation. Nos. 156,966–7; July 18.
Piston Ring Company, The, Muskegon Heights, Mich. Piston rings. No. 156,960; July 18.
Poage, Clifford B., Columbus, Ohio. Finger rings. No. 156,911; July 18.
Polkase Mfg. Co., New York, N. Y. Baby outfits. No. 156,912; July 18.
Prince, H. G., & Co., Oakland, Calif. Canned fruits. No. 156,913; July 18.
Rassias, George L., Brooklyn, N. Y. Candy. No. 156,914; July 18.
Rich Pump and Ladder Company, Cincinnati, Ohio. Ladders. No. 156,961; July 18.
Rogers Peet Company, New York, N. Y. Men's and boys' knitted underwear. No. 156,915; July 18.
Sachem Manufacturing Company, Inc., Brockton, Mass. Toys. No. 156,916; July 18.
Safandshur Chemical Co., Inc., New York, N. Y. Fire-extinguisher fluid. No. 156,971; July 18.
Salvo, Alfred L., Augusta, Ga. Flying toy. No. 156,917; July 18.
Savory, H. L., and Company. (See Savory, Harry L., assignor.)
Savory, Harry L., deceased; R. Shurey, executor, assignor to H. L. Savory and Company, Limited, London, England. Cigarettes. No. 156,918; July 18.
Schoeneman, J., Incorporated, Baltimore, Md. Certain articles of clothing. No. 156,922; July 18.
Shackman, B., & Co., New York, N. Y. Snapping mottoes. Nos. 156,958–9; July 18.
Shell Rock Spring Water Co., Inc., Perth Amboy, N. J. Natural spring water. No. 156,923; July 18.
Shurey, Reginald, executor. (See Savory, Harry L.)
Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton goods in the piece. No. 156,924; July 18.
Smith, W. T., & Son, Inc., Philadelphia, Pa. Fabric known as a royal Turkish rug. No. 156,925; July 18.
Snow, Maggie S., Charlottesville, Va. Certain medicinal preparations. No. 156,926; July 18.
Solomons, Harry, & Son, New York, N. Y. Ladies' hats. No. 156,927; July 18.
Springer Chocolate Co. Inc., New York, N. Y. Candies. No. 156,928; July 18.
Staadecker & Co., Seattle, Wash. Ladies' trimmed hats. No. 156,929; July 18.
Steele Packing Company, San Diego, Calif. Canned fish, fruits, and vegetables. No. 156,930; July 18.
Stelwagon Manufacturing Co., Philadelphia, Pa. Felt roofing. Nos. 156,962–3; July 18.
Todd, T. S., & Co., New York, N. Y. Steam-trap air valves. No. 156,931; July 18.
Trion Company, Trion, Ga. Cotton goods in the piece. No. 156,933; July 18.
Tripi, Andrea H., Buffalo, N. Y. Preparation for the treatment of skin diseases. No. 156,968; July 18.
Unfon Tool Company, Torrance, Calif. Oil-well tools and equipment. No. 156,934; July 18.
Vaughan, Latimer C., New York, N. Y. Men's, ladies', and children's cotton, silk, fiber-silk, and wool hose. No. 156,935; July 18.
Wanamaker, John, New York, New York, N. Y. Ladies', misses', and children's dresses. No. 156,936; July 18.
Wangee Umbrella Co., New York, N. Y. Umbrella and parasol ferrules and ties. No. 156,937; July 18.
Ware Shoals Mfg. Co., Ware Shoals, S. C. Cotton piece goods. No. 156,938; July 18.
Webb Manufacturing Company, Nashville, Tenn. Flavoring extracts for food. No. 156,940; July 18.
Weber Lifelike Fly Co., The, Stevens Point, Wis. Silkworm gut leaders, and leaders made of other material. No. 156,941; July 18.
Westmoreland Candy Company, Richmond, Va. Candy. No. 156,942; July 18.
Wm. Schluderberg-T. J. Kurdle Co., The, Baltimore, Md. Creamery butter, lard, hams, sausages, etc. No. 156,921; July 18.
Wood, James W., Poughkeepsie, N. Y. Candy and chewing gum. No. 156,939; July 18.
Woodman, F. T., Co., The, Cambridge, Mass. Wearing apparel for men, women, and children. No. 156,943; July 18.
Worden Grocer Company, Grand Rapids, Mich. Pepper, allspice, cinnamon, tumeric, ginger, cloves, sage, etc. No. 156,944; July 18.
Wyatt Bros., Chicago, Ill. Cottonseed-oil stearin. No. 156,973; July 18.
Young, Patrick, Company, Richmond, Va. Ham. No. 156,907; July 18.
Zaloom Brothers, New York, N. Y. Pistachio nuts. No. 156,945; July 18.
Zerillo, Lorenzo, Healdsburg, Calif. Fresh deciduous and dried fruits and grape sirup for food purposes. No. 156,946; July 18.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Ajemian, Matthew A., West New York, N. J. "Ajem Corn Paste." (For a Proprietary Medicine for the Removal of Corns and the Like.) No. 24,711; July 18.
American "E" Products Company, Minneapolis, Minn. "American 'E' Products Company." (For Powdered Soups.) No. 24,712; July 18.
Bennett, F. H., Biscuit Company, New York, N. Y. "Wheatsworth Whole Wheat Graham Crackers." (For Crackers.) No. 24,713; July 18.
Bennett, F. H., Biscuit Company, New York, N. Y. "Maltoid Milk-Bone Puppy Food." (For Dog Biscuits.) No. 24,714; July 18.
Bernstein, Harry, Tampa, Fla. "Harry's Florida Pecan Roll." (For a Nut Confection.) No. 24,715; July 18.
Cunningham, John R., Kansas City, Mo. "Jack's Fish Ferrets." (For Fishing Tackle.) No. 24,716; July 18.
Cunningham, John R., Kansas City, Mo. "Jack's Bait Wiggle Tail." (For Containers for Fishing Bait.) No. 24,717; July 18.
Davenport Company, The. (See Davenport, Daniel F.)
Davenport, Daniel F., doing business as The Davenport Company, Americus, Ga. "Death-Blo Certainly Annihilates Pests." (For Packages Containing a Preparation for Destroying Insects.) No. 24,718; July 18.
Dexter, Eugene A., Springfield, Mass. "Dexter's Mother's Bread." (For Bread.) No. 24,719; July 18.
Donovan, Peter T., doing business as P. T. Donovan Co., New York, N. Y. "Varicosol." (For a Box Containing a Medical Preparation in Powder Form for the Treatment of Hardening of the Arteries, Varicocele, Varicose Veins, and Rheumatism.) No. 24,720; July 18.
Garcia, Joseph A., & Company, New York, N. Y. "Flor De Garcia & Co. Havana." (For Cigars, Cigarettes, and Tobacco.) No. 24,721; July 18.
Gearo Mfg. Co., Quincy, Ill. "G M C Metallic Grease." (For Lubricating Grease.) No. 24,722; July 18.
Griburn Co., Inc., The, Philadelphia, Pa. "Grier's Grinding Compound." (For Compounds for Grindiug in Bearings.) No. 24,723; July 18.
Hochschild Corporation, Chicago, Ill. "De Luxe Vanity." (For Powder Puffs.) No. 24,724; July 18.
Holmes Confectionery Company, The. (See Holmes, Harry G.)
Holmes, Harry G., doing business as The Holmes Confectionery Company, Middletown, Conn. "Holmes Honey Pops." (For Confectionery.) No. 24,725; July 18.
Ideal Tire and Rubber Company, The, Cleveland, Ohio. "On the Trail of a Good Tire." (For Vehicle Tires. Being Applied to the Boxes or Packages Containing the Same.) No. 24,726; July 18.
Kemp Bros. Packing Co., Frankfort, Ind. "Vitamine Tomatoes." (For Canned Tomatoes.) No. 24,727; July 18.
Kendall Products Corporation, New York, N. Y. "Graino." (For Soap.) No. 24,728; July 18.
Kendall Products Corporation, New York, N. Y. "Korex." (For Soap.) No. 24,729; July 18.
Kendall Products Corporation, New York, N. Y. "Kendene." (For Soap.) No. 24,730; July 18.
Murray, Emmett L., doing business as Murray's Pharmacy, Americus, Ga. "Murray's Fragrant Cream Violet For Beautifying The Complexion." (For 25¢, 35¢, and 50¢ Size Bottles Containing a Preparation for Beautifying the Complexion.) No. 24,731; July 18.
Murray's Pharmacy. (See Murray, Emmett L.)
Non-Rip Silk Hosiery Mills Inc., New York, N. Y. "Pure Silk." (For Hosiery.) No. 24,732; July 18.

Readi-Sew Package Co., Inc., The, New York, N. Y. "Style No. 2016, The Readi-Sew Package." (For an Envelope Containing Children's Ready-to-Sew Garments.) No. 24,733; July 18.
Ruggiero, Antonio, Malden, Mass. "Ruggiero's Dentatura." (For Bottles or Cartons Containing a Mouth Wash.) No. 24,734; July 18.
Short, David L. (See West, Augustus A., assignor.)
Square, D Co., Detroit, Mich. "Square D Safety Switch." (For Electric Switches.) No. 24,735; July 18.
Sturdivant, Franklin, Brownsville, Tenn. "Old Virginia Brunswick Stew." (For Canned Old Virginia Brunswick Stew.) No. 24,736; July 18.
Sunshine Macaroni Mfg. Co., Inc., Brooklyn, N. Y. "Sunshine Macaroni." (For Macaroni.) No. 24,737; July 18.
Thayer, Allan C., Detroit, Mich. "A C T Chemical Products." (For Pieces of Paper or Other Material, Which are to be Attached to Bottles, Boxes, or Packages Containing Chemical Articles of Manufacture.) No. 24,738; July 18.
Universal Products Co., Los Angeles, Calif. "Kill-O-Pest." (For a Liquid Disenfectant for Destroying Ants, Moths, Flies.) No. 24,739; July 18.
West, Augustus A., doing business as West Electric Hair Curler Co., assignor to D. L. Short, Philadelphia, Pa. "All-Season Veil." (For Veils.) No. 24,740; July 18.
West Electric Hair Curler Co. (See West, Augustus A.)
Willlar, Henry R., San Francisco, Calif. "The World's Finest Fruit." (For Fruit Wrappers.) No. 24,741; July 18.
Ziegler, Geo., Co., Milwaukee, Wis. "Ziegler's Aero Kisses." (For Candy Kisses.) No. 24,742; July 18.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Lead Pencil Company, New York, N. Y. "Venus Thin Leads." (For Advertising Purposes for Lead Pencils.) No. 6,210; July 18.
Bassett, Frank A., Holyoke, Mass. "Coal." (For Advertising Purposes for Coal.) No. 6,211; July 18.
Chrichton Bros., New York, N. Y. "The Winner's Cup." (For Advertising Purposes for Gold and Silver Ware.) No. 6,212; July 18.
Dandercide Mfg. Co. (See Wantland, L. J.)
Enterprise Manufacturing Company, The, Akron, Ohio. "Leaping Bass No. 2." (For Advertising Purposes for Fishing Tackle." No. 6,213; July 18.
Enterprise Manufacturing Company, The, Akron, Ohio. "Leaping Bass No. 1." (For Advertising Purposes for Fishing Tackle.) No. 6,214; July 18.
Marietta Manufacturing Company, Point Pleasant, W. Va. "Made Mechanically Correct." (For Advertising Purposes for Steel Boats, Barges, Marine Engines, Boilers, and Equipment.) No. 6,215; July 18.
Mead Johnson & Company, Evansville, Ind. "Scientific Control vs. Indiscriminate Feeding." (For Advertising Purposes for Mead's Infant Diet Materials.) No. 6,216; July 18.
Non-Rip Silk Hosiery Mills Inc., New York, N. Y. "Featuring The Non Rip Silk Hosiery." (For Advertising Purposes for Hosiery.) No. 6,217; July 18.
Richards, James E., Company, The, Dayton, Ohio. "Sport Trousers." (For Advertising Purposes for White Duck Clothing.) No. 6,218; July 18.
Singer Manufacturing Company, The, Elizabeth, N. J. "Singer Sewing Motor." (For Advertising Purposes for Sewing Motors.) No. 6,219; July 18.
Singer Manufacturing Company, The, Elizabeth, N. J. "Singer Portable Electric." (For Advertising Purposes for Portable Electric Sewing Machines.) No. 6,220; July 18.
Singer Manufacturing Company, The, Elizabeth, N. J. "Singer Electric Fans." (For Advertising Purposes for Electric Fans.) No. 6,221; July 18.
Wantland, L. J., doing business as Dandercide Mfg. Co., Oklahoma, Okla. "Dandercide." (For Advertising Purposes for Hair Tonic.) No. 6,222; July 18.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abner-Drury Company, Washington, D. C. Ginger ale. No. 161,715; July 18.
Ackermite Company of America, Reno, Nev. Bearing metal in pig form. No. 157,205; July 18.
Aime Baboin & Cie., Lyon, France. Silk net gooda in the piece. No. 153,967; July 18.
Akins, Samuel W., doing business as B. B. Transmission Wood Lining Co., Denver, Colo. Wood brake and wood transmission linings. No. 159,914; July 18.
America Brass Company, The, Waterbury, Conn. Cast, drawn, etc., metals and alloys and ingots, castings, sheets, rolls, wire, strips, rods, and tubes made from such metals and alloys. No. 158,354; July 18.
American Abrasive Metals Company, New York, N. Y. Bank-vault lining plates of composite metal. No. 157,873; July 18.
American Lady Corset Co., Detroit, Mich. Corsets, corset waists, brassières, bandeaux, etc. No. 159,456; July 18.
Amsterdam, Peter, trading as The Amsterose Co., Philadelphia, Pa. Preparation used for shaving cream and chapped skin. No. 160,990; July 18.
Amsterose Co., The. (See Amsterdam, Peter.)
Anderson, Hans, Oakland, Calif. Carpenters' planes. No. 159,239; July 18.
Art Metal Works, Inc., The, Newark, N. J. Pieces of sparking metal. No. 161,870; July 18.
Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. No. 163,727; July 18.
Atlas Torch Mfg. Co. (See Gundermann, Philip H.)
Bachmann, J., & Co. (See Bachmann, Jacob.)
Bachmann, Jacob, doing business as J. Bachmann & Co., New York, N. Y. Leather belting. No. 160,652; July 18.
Baker, Jacobs, & Company, Buffalo, N. Y. Neckties. No. 157,133; July 18.
Bardon, Ray O., Upper Sandusky, Ohio. Antislipping attachment for shoes. No. 155,003½; July 18.
B. B. Transmission Wood Lining Co. (See Akins, Samuel W.)
Bearden, P. L., Dallas, Tex. Polishing cloth. No. 162,476; July 18.
Beardsley & Piper Company, The, Chicago, Ill. Machines for making molds for founding. No. 159,549; July 18.
Beckman-Dawson Roofing Co., Chicago, Ill. Prepared roofing and asphalt shingles. No. 147,086; July 18.
Belmont Hosiery Company, Belmont, N. H. Hosiery. No. 155,659; July 18.
Bendick, Sidney S., doing business as The Trancilla Company, New York, N. Y. Chemical composition employed in stamping patterns for art needlework. No. 165,264; July 18.
Blair, J. C., Company, Huntingdon, Pa. Paper, correspondence envelopes, tablets, and blank books. No. 164,306; July 18.
Bodek, W., Company, Incorporated, Philadelphia, Pa. Ribbons, cotton, woolen, and silk gooda, all in the piece. No. 151,199; July 18.
Boston Insulated Wire & Cable Co., Boston, Mass. Electric conductors, wires, and cables. No. 160,534; July 18.
Bourjois, A., & Co. Inc., New York, N. Y. Toilet powder, toilet water and lotions, sachet powder, etc. No. 156,953; July 18.
Boyle, John, & Company, Incorporated, New York, N. Y. Cotton duck. No. 156,733; July 18.
Bridgeport Brass Company, Bridgeport, Conn. Nonferrous metals in the form of ingots, billets, slabs, sheets, wire, rods, and tube blanks. No. 158,110; July 18.
Brown, C. P., Mfg. Co., Des Moines, Iowa. One-piece work suits. No. 153,031; July 18.
Brown, C. P., Mfg. Co., Des Moines, Iowa. Overalls, coats, pants, knickers, and work shirts. No. 153,032; July 18.
Burns, George J., Youngstown, Ohio. Fuel-feeding apparatus for internal-combustion engines. No. 159,779; July 18.
Cadillac Phonograph Corporation, Chicago, Ill. Phonographs and tone arms, sound boxes, horns, and amplifiers. No. 134,058; July 18.
California Bottling Co., Brooklyn, N. Y. Beverages sold as soft drinks and sirups for making same. No. 159,920; July 18.
Carpenter, Geo. B., & Co., Chicago, Ill. Cotton waste. No. 161,225; July 18.
Chancy, Jackson B., Lake Butler, Fla. Preparation for treatmeut of niles, leucorrhea, burns, eczema, etc. No. 154,435; July 18.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adams, C. C., Cleves, Ohio. Food confection comprising seedless raisins and roasted peanuts. No. 156,828; July 18.

Aladdin Cinema Company, Inc., Malone, N. Y. Motion-picture cameras and projectors. No. 156,829; July 18.

Allison-Bedford Co., Chicago, Ill. Canned fruits and vegetables, fruit preserves, table sauces, and dressings, etc. No. 156,830; July 18.

American Molasses Company of New York, The, New York, N. Y. Table sirup. No. 156,831; July 18.

American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Crockery, cooking utensils and dishes, flowerpots, etc. No. 156,972; July 18.

Apple Gum Company, Inc. (See Kitchell, Joseph G., assignor.)

Associated Manufacturers Company, Waterloo, Iowa. Internal-combustion engines and cream-separating machines. No. 156,832; July 18.

Auto Truck Service Co., Inc., Milwaukee, Wis. Dump carts. No. 156,969; July 18.

Baker, J. Howard, Fort Smith, Ark. Cough sirup. No. 156,833; July 18.

Bankes, Herman A., St. Louis, Mo. Taffy or molasses candy. No. 156,834; July 18.

Bay Bee Oil Co., New York, N. Y. Oil compound. No. 156,835; July 18.

Beautypeel Cosmetic Co. (See Newlyn, Thomas J.)

Berkenfield, Irving, doing business as The Field Laboratories, Erie, Pa. Food-flavoring extracts, spices, and sauces. No. 156,964; July 18.

Bestex Hosiery Co. Inc., New York, N. Y. Hosiery. No. 156,836; July 18.

Billingsley, P. L., Company, The, Cincinnati, Ohio. Flexible driving mechanism and woodworking and grinding machinery. No. 156,837; July 18.

Binninger, Frank H., Cleveland, Ohio. Sheet-rubber patches for tire tubes, hot-water bottles, raincoats, etc. No. 156,840; July 18.

Binninger, Frank H., Cleveland, Ohio. Tire-tube patches. Nos. 156,838–9; July 18.

Bishop & Company, Los Angeles, Calif. Chocolate candy. No. 156,841; July 18.

Blank, Frederic, & Co., New York, N. Y. Salmon in cans or in brine. No. 156,842; July 18.

Boehm, Henry C., Jersey City, N. J. Candy. No. 156,843; July 18.

Bonita Co., The, Fond du Lac, Wis. Candy. No. 156,844; July 18.

Boott Mills, Lowell, Mass. Cotton cloth in the piece, towels, and toweling. No. 156,845; July 18.

Borgfeldt, George, & Co., New York, N. Y. Cooking dishes for toy stoves. No. 156,846; July 18.

Buettell Brothers Company, Dubuque, Iowa. Fireworks. No. 156,847; July 18.

Burns Syrup Company, Macon, Ga. Cane and corn sirups mixed for food purposes. No. 156,848; July 18.

Byrnes, Eugene, New York, N. Y. Certain articles of clothing. No. 156,849; July 18.

Caulk, L. D., Company, The, Milford, Del. Certain chemicals and dental preparations. No. 156,850; July 18.

Central Coffee Co. Inc., Brooklyn, N. Y. Coffee. No. 156,851; July 18.

Chalmers, Harry B., New York, N. Y. Candy. No. 156,852; July 18.

Chevy Chase Food Products Co., Washington, D. C. Food relishes — namely, mayonnaise and Russian dressing. No. 156,853; July 18.

Cortland Line Co. Inc., Cortland, N. Y. Braided silk fishing lines. No. 156,948; July 18.

Cortland Line Co. Inc., Cortland, N. Y. Japan-silk fishing lines. No. 156,949; July 18.

Cortland Line Co. Inc., Cortland, N. Y. Braided enameled Japan-silk fishing lines. Nos. 156,950–1; July 18.

Cortland Line Co. Inc., Cortland, N. Y. Braided Japan-silk enameled fishing lines. No. 156,952; July 18.

Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 156,953; July 18.

Cortland Line Co. Inc., Cortland, N. Y. Cuttyhunk bass and tarpon fishing lines. No. 156,954; July 18.

Cortland Line Co. Inc., Cortland, N. Y. Surfman's cuttyhunk fishing lines. No. 156,955; July 18.

Cortland Line Co. Inc., Cortland, N. Y. Cuttyhunk fishing lines. No. 156,956; July 18.

Cortland Line Co. Inc., Cortland, N. Y. Irish-linen braided cuttyhunk fishing lines. No. 156,957; July 18.

Croker Packing Co., San Francisco, Calif. Table sirup. No. 156,855; July 18.

Curtis Manufacturing Company, Los Angeles, Calif. Steam cooking kettles. No. 156,856; July 18.

Daarnhouwer & Co. Inc., New York, N. Y. Cocoa butter. No. 156,857; July 18.

Dairymen's League Co-Operative Association, Inc., Utica, N. Y. Butter, condensed and evaporated milks. No. 156,858; July 18.

Dantzler, Mortimer O., Orangeburg, S. C. Table sirup. No. 156,859; July 18.

Duggan, Miner P., Sioux City, Iowa. Aprons. No. 156,860; July 18.

Dyktor Brothers Inc., New York, N. Y. Carbon and high-speed steel, twist drills, reamers, rasps, taps, etc. No. 158,861; July 18.

Eisenlohr, Otto, & Bros. Inc., Philadelphia, Pa. Cigars. No. 156,862; July 18.

Emerson Pharmaceutical Laboratories, West Hoboken, N. J. Insect fluid. No. 156,863; July 18.

Epstein, Isaac, Newark, N. J. Smoked sardines. No. 156,864; July 18.

Estate of John E. Townsend, Milton, N. H. Cotton and wool blankets. No. 156,932; July 18.

Estate of Joseph J. Schaefer, Dayton, Ohio. Cigars. Nos. 156,919–20; July 18.

Farkas, George, New York, N. Y. Women's, misses', and children's dresses and frocks. No. 156,865; July 18.

Field Laboratories, The. (See Berkenfield, Irving.)

Fink-Cimiotti, Inc., New York, N. Y. Ladies' hats. No. 156,866; July 18.

Frank, Richard, & Co. (See Frank, Richard.)

Frank, Richard, trading as Richard Frank & Co., New York, N. Y. Fruit frappé. No. 156,867; July 18.

Gamecraft and Toy Company, New York, N. Y. Table board game played with pieces. No. 156,868; July 18.

General Tire and Rubber Company, The, Akron, Ohio. Tire retreads of rubber and fabric in the piece. No. 156,869; July 18.

Goldfredrick, R. M., Chicago, Ill. Rain garment comprising combined hood and cape. No. 156,870; July 18.

Goldstein, Bernard J., Brooklyn, N. Y. Motor-driven and hand-drawn fire extinguishers and chemical fire engines. No. 156,871; July 18.

Goldston, Nat, & Co., New York, N. Y. Dresses. No. 156,872; July 18.

Gotham Novelty Co., New York, N. Y. Children's suits and dresses. No. 156,873; July 18.

Grab, O. F., & Co., New York, N. Y. Certain articles of clothing. No. 156,874; July 18.

Green, Phoebe Company, Yakima, Wash. Fruit marmalades, jams, conserves, etc. No. 156,910; July 18.

Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Preparation for coagulating or curdling milk. No. 156,854; July 18.

Heidelberger Confectionery Co., Philadelphia, Pa. Chocolates. No. 156,875; July 18.

Heinrichshofen, Robert, St. Louis, Mo. Nonalcoholic maltless extracts, colors and flavors for soft drinks. No. 156,876; July 18.

Hewes & Potter, Boston, Mass. Bow neckties. No. 156,878; July 18.

Holmac, Inc., New York, N. Y. Golf balls. No. 156,880; July 18.

Holmac, Inc., New York, N. Y. Golf clubs, balls, shafts, heads, grips, etc. No. 156,879; July 18.

Hurty-Peck & Company, Indianapolis, Ind. Nonalcoholic maltless beverage and sirup for making same. No. 156,881; July 18.

International Development Company, Boston, Mass. Skates. No. 156,882; July 18.

Isle of Wight Water Company, Dover, Del., and Philadelphia, Pa. Mineral water. No. 156,883; July 18.

Johnson-Layne Coffee Company, The, St. Louis, Mo. Coffee. No. 156,884; July 18.

Jönköpings Och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. No. 156,885; July 18.

Kelmet Corporation, New York, N. Y. Toys. No. 156,886; July 18.

Kitchell, Joseph G., New York, N. Y. Chewing gum. No. 156,887; July 18.

Kitchell, Joseph G., assignor to Apple Gum Company, Inc., New York, N. Y. Chewing gum. No. 156,888; July 18.

Leiber, Max, & Company, Donora, Pa. Nonalcoholic maltless beverages or drink. No. 156,889; July 18.

Levy, Ernest & Hermann, Inc., New York, N. Y. Ribbons for making camisoles. No. 156,970; July 18.

Lexington Motor Company, Connersville, Ind. Automobiles. No. 156,890; July 18.

Loewe, D. E., & Co., Danbury, Conn. Men's and children's hats and caps. No. 156,947; July 18.

Marshall Field & Company, Chicago, Ill. Women's and girls' underwear, shirt waists, infants' underwear and dresses. No. 156,891; July 18.

Massachusetts Cotton Mills, Boston, Mass. Cotton piece goods. No. 156,892; July 18.

Merckens Inc., New Brunswick, N. J. Chocolates, chocolate bars, chocolate nut bars. No. 156,893; July 18.

Morris Nazel & Co. Inc., New York, N. Y. Ladies' and misses' dresses. No. 156,894; July 18.

Nash Coffee Company, Minneapolis, Minn. Coffee. No. 156,895; July 18.

Soreng, Edgar M., assignor to Briggs & Stratton Company, Milwaukee, Wis. Heating coil for carburetors. No. 1,422,896; July 18.
Souders, Herbert V., Wilmington, and J. M. Frost, Long Beach, Calif. Foot accelerator. No. 1,423,489; July 18.
Southwick, William S., Clinton, Mass., assignor, by mesne assignments, to Wickwire Spencer Steel Corporation. Automatic filling-replenishing loom. No. 1,422,897; July 18.
Spangler, James M., deceased, Canton, assignor to The Hoover Suction Sweeper Company, Berlin, Ohio. Suction carpet sweeper. (Reissue.) No. 15,414; July 18.
Spencer, Charles H., assignor to H. S. Dulaney, Baltimore, Md. Piano player. No. 1,423,271; July 18.
Spencer Metal Products Company, The. (See Roberts, George E., assignor.)
Spitzfaden, Bernhard, Brooklyn, N. Y. Self-closing and controlling means for doors. No. 1,423,467; July 18.
Stadelman, Joseph G., Chicago, Ill. Wooden building. No. 1,423,468; July 18.
Standard Rubber Works Proprietary Limited, The. (See Ostberg, A. J., and Kenny.)
Staples, Ernest A. (See Leavitt, F. S., and Staples.)
Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Recovering glycerin. No. 1,423,042; July 18.
Steinheiser, Frank H., Spokane, Wash. Broom holder. No. 1,423,043; July 18.
Stemco Engineering Company, The. (See Collison, J. G., Wright, Filbert, and Frank, assignors.)
Stephens, Benjamin G. C., Auckland, New Zealand. Automatic switch for electric heating appliances. No. 1,422,898; July 18.
Sterling Engineering Company. (See Hutchinson, Frank L., assignor.)
Stern, Carl L., assignor to Linotype and Machinery Limited, London, England. Rotary lithographic printing machine for direct or offset printing. No. 1,423,165; July 18.
Steudel, Erich, Chicago, Ill. Foldable carton. No. 1,423,272; July 18.
Steudel, Erich W. O., Chicago, Ill. Chain link. No. 1,423,273; July 18.
Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,423,274; July 18.
Storie, Ole O., Tacoma, Wash. Automatic stop for gramophones. No. 1,423,044; July 18.
Stouch, Daniel L., York, Pa. Tire. No. 1,422,899; July 18.
Strachan, James K., Windsor, Ontario, Canada. Grain-grinding machine. No. 1,423,275; July 18.
Stransky, Emil, assignor to The Dover Manufacturing Company, Dover, Ohio. Electrical connector. No. 1,423,045; July 18.
Stranbel, Louis A., Green Bay, Wis. Paper-folding machine. No. 1,423,276; July 18.
Streit, Peter L., Grand View, N. Y. Combination handle and crank. No. 1,423,469; July 18.
Strong, Arthur P., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Ash hopper. No. 1,422,900; July 18.
Stuart, Charles A. (See Stuart, George E. and C. A.)
Stuart, George E. and C. A., Oregon City, Oreg. Pneumatic tire. No. 1,423,277; July 18.
Studebaker Corporation. (See Link, Vincent, assignor.)
Stukenborg, Louis C., Memphis, Tenn. Tire chain. No. 1,423,470; July 18.
Sturtevant, B. F., Company. (See Clamecy, Philippe, assignor.)
Submarine Signal Company. (See Mason, Max, assignor.)
Summers, Mark L., Hammonton, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Pin stop for dredge buckets. No. 1,423,367; July 18.
Summit Thread Company. (See Weaver, Lucius E., assignor.)
Swanson, Sherwood W., Jacksonville, Fla. Demountable rim. No. 1,423,471; July 18.
Taber, Ezra W., Chicago, Ill. Farm tractor. No. 1,423,046; July 18.
Tallerday, Howard G., San Francisco, Calif., assignor to Western Pipe and Steel Company of California. Ice can. No. 1,423,278; July 18.
Tarbox, John P., Garden City, N. Y., assignor to Tarbox Safety Aircraft Company. Transverse axis aileron. No. 1,423,166; July 18.
Tarbox, John P., Garden City, N. Y., assignor to Tarbox Safety Aircraft Company. Vertical axis aileron. No. 1,423,167; July 18.
Tarbox Safety Aircraft Company. (See Tarbox, John P., assignor.)
Taylor, Hubert W., Frederick, Okla. Cotton picker. No. 1,423,472; July 18.
Taylor Instrument Companies. (See Worner, George R., assignor.)
Taylor, Lewis H., et al. (See Bair, Joseph H., assignor.)
Taylor, Lucinda. (See Taylor, Roland B. and L.)
Taylor, Roland B. and L., Melville, Saskatchewan, Canada. Folder for prescription blanks. No. 1,423,473; July 18.
Taylor-Wharton Iron and Steel Company. (See Summers, Mark L., assignor.)
Taylor, William. (See Frank, William, assignor.)
Techel, Hans, Kiel, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Telescope device for determining the angle of allowance in front on attacking a moving target. No. 1,423,168; July 18.
Ter Kuile, Harry, Enschede, Netherlands. Replenishing mechanism for multicolor looms. No. 1,423,279; July 18.
Terry, George O., assignor to Economy Shoe Machine Co., Minneapolis, Minn. Cutting device for leather soles. No. 1,422,901; July 18.
Thayer, Russell, Philadelphia, Pa. Centrifugal separator or amalgamator. No. 1,423,169; July 18.
Theodore, George. (See Dorcheff, George.)
Thomas, Frank B., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Starting and unloading device. No. 1,422,902; July 18.
Thompson, Elmer B., assignor to Thompson Manufacturing Company, Des Moines, Iowa. Pump mechanism. (Reissue.) No. 15,415; July 18.
Thompson, John S., Chicago, Ill. Strip-casting machine. No. 1,423,474; July 18.
Thompson Manufacturing Company. (See Thompson, Elmer B., assignor.)
Thompson, William L., Greenville, Miss. Bucket. No. 1,423,047; July 18.
Tickometer Company, The. (See Kimball, Robert E., assignor.)
Tiffany, Gerald W., assignor of one-half to N. J. Fitzsimmons, New York, N. Y. Device for protecting safes or other enclosures. No. 1,422,903; July 18.
Tifft, Herbert L., Willimantic, Conn. Sound-box diaphragm. No. 1,423,368; July 18.
Tomlinson, Charles H., assignor, by mesne assignments, to The Tomlinson Coupler Company, Mansfield, Ohio. Electric coupling. No. 1,422,905; July 18.
Tomlinson Coupler Company, The. (See Tomlinson, Charles H., assignor.)
Trenary, William F., Atlanta, Ga. Centrifugal pump. No. 1,423,369; July 18.
Tucker, Lawrence T., Pollock, Mo. Hoisting apparatus. No. 1,422,904; July 18.
Tunison, Burnell R., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Fuel. No. 1,423,048; July 18.
Tunison, Burnell R., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Fuel of liquid type. No. 1,423,049; July 18.
Tunison, Burnell R., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Liquid fuel. No. 1,423,050; July 18.
Tweedie, Charles, Jefferson City, Mo. Boot top. (Reissue.) No. 15,416; July 18.
Two Part Rim Co. Inc. (See Johnson, Alcin L., assignor.)
Tyler, W. S., Company, The. (See Reynolds, Morley P., assignor.)
Uhlarik, Julius C., Valhalla, N. Y., assignor to Robins Conveying Belt Co. Revolving shaker screen. No. 1,423,370; July 18.
Ullman, Mervin J. (See Le Merle, F. G., Ullman, and Barry.)
Unger, Paul O. (See Fargo, C. R., and Unger.)
Union Industrial Company. (See Holt, Charles A., assignor.)
Union Special Machine Company. (See Moffatt, James R., assignor.)
United States Radium Corporation. (See Dey, William H., assignor.)
Unit Motor Company. (See Smith, Frank W., assignor.)
Urich, Benjamin, Milwaukee, Wis. Key-carrying chain. No. 1,423,280; July 18.
U. S. Industrial Alcohol Co. (See Steffens, John A., assignor.)
U. S. Industrial Alcohol Co. (See Tunison, Burnell R., assignor.)
U. S. Industrial Alcohol Co. (See Whitaker, Milton C., assignor.)
Vafiades, George, and J. Koukos, New York, N. Y. Fruit seeder and slicer. No. 1,423,490; July 18.
Van Brunt, John, assignor to Combustion Engineering Corporation, New York, N. Y. Furnace. No. 1,423,281; July 18.
Van Deusen, Harry N. (See Young, C. R., and Van Deusen.)
Van Dyke, William H. (See Anderson, C. J., and Van Dyke.)
Van Guelpen, Louis J., Cincinnati, Ohio. Burnishing machine. No. 1,423,051; July 18.
Van Guelpen, Louis J., Cincinnati, Ohio. Burnishing tool. No. 1,423,052; July 18.
Van Guelpen, Louis J., Cincinnati, Ohio. Pasting machine. No. 1,423,282; July 18.
Van Loozen, Fred H., Lakewood, Ohio. Demountable rim. No. 1,423,283; July 18.
Vernon, Percy V., Keresley, England. Saw for cutting metals. No. 1,423,504; July 18.
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Victorine, Edward, Cedar Rapids, Iowa. Egg-preserving compound. No. 1,423,053; July 18.
Vierow, Thomas S., Jersey City, N. J. Dough-dividing machine. No. 1,423,371; July 18.
Vintschger, Max. (See Schwarz, G. H., and Vintschger.)
Vörsman, Karl, Brunn, Austria. Water-tube boiler. No. 1,423,372; July 18.

Wagner, Alfred D., Eureka, Kans. Corn-husking hook. No. 1,422,906; July 18.
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Wagenhorst, James H., Jackson, Mich. Metal wheel. No. 1,423,373; July 18.
Walker, Henry C. (See Kampfe, Otto, assignor.)
Walker, John B., Minerva, Ohio. Tractor-wheel weight. No. 1,423,054; July 18.
Walker, Viola K., administratrix. (See McGahan, Frederick L.)
Wallbillich, Anthony F. (See Caracristi, V. Z., and Wallbillich.)
Walling, John P. (See Nichols, George T., assignor.)
Walters, Charles A., near Marion, Iowa. Tool handle. No. 1,423,055; July 18.
Warner, Maurice L., assignor to Manning, Bowman & Company, Meriden, Conn. Percolator. No. 1,423,475; July 18.
Warner, Sylvester C., McClure, Ohio. Beet topper. No. 1,423,374; July 18.
Watt, Frederick, assignor of one-third to T. J. Pembor, Chicago, Ill. Building construction. No. 1,423,375; July 18.
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Watts, George F., Boston, Mass. Mast top. No. 1,423,377; July 18.
Weaver, Frederick H., New York, N. Y. Form for concrete pipes. No. 1,423,284; July 18.
Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Sewing-machine bobbin case. No. 1,423,056; July 18.
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Western Electric Company. (See Hocker, Carl D., assignor.
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Western Electric Company. (See Nichols, Harold W., assignor.)
Western Electric Company. (See Young, C. R., and Van Deusen, assignors.)
Western Felt Works. (See Faurot, Henry, Jr., assignor.)
Western Pipe and Steel Company of California. See Tallerday, Howard G., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, Frank B., assignor.)
Westinghouse Electric Products Company. (See Haynsworth, Julius D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)
Westinghouse Electric & Manufacturing Co. (See Schmidt, Henry F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Snyder, John E., assignor.)
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Williams, Milton F., assignor of forty-nine one-hundredths to H. M. Plaisted, St. Louis, Mo. Pulley. No. 1,423,476; July 18.
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Young, Reginald C. (See Gallagher, R. B., and Young.)
Zaiden, David, East Orange, N. J. Walking doll. No. 1,423,382; July 18.
Zaiden, David, East Orange, N. J. Hula doll. No. 1,423,383; July 18.
Zeller, Isaiah N., Chicago, Ill. Matrix-making machine. No. 1,423,290; July 18.

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American Fabrics Company, The. (See Philips, Hans A., assignor.)
Byron Weston Company. (See Weston, Donald M., assignor.)
Carey Tire & Rubber Company, The. (See Carnal, William, assignor.)
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Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Huff, New York, N. Y. Dish, plate, or similar article. No. 61,222; July 18.
Dominick & Huff. (See Crowell, Gilbert L., Jr., assignor.)
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Duryea, Minga P., and C. Ingraham, New York, N. Y. Toy. No. 61,224; July 18.
Gannon, Joseph, Walton, assignor to Steinfeld Bros., New York, N. Y. Tray. No. 61,225; July 18.
General Electric Company. (See Gosling, Joseph W., assignor.)
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Ingraham, Corinne. (See Duryea, M. P., and Ingraham.)
Kenyon, C., Company. (See Mitchell, Harold D., assignor.)
Kotato, Teiji, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Nos. 61,227–41; July 18.
McFaddin, Harrison D., East Orange, N. J. Lamp shade, globe, or similar article. No. 61,242; July 18.
Mitchell, Harold D., assignor to C. Kenyon Company, Brooklyn, N. Y. Tire tread. Nos. 61,243–5; July 18.
Morimura Bros., Inc. (See Kotato, Teiji, assignor.)
Noe, William R., & Sons. (See Roettges, Frederick, assignor.)
Ochse, William, San Antonio, Tex. Combination watch and knife. No. 61,220; July 18.
Philips, Hans A., Stratford, Conn., assignor to The American Fabrics Company. Lace. No. 61,246; July 18.
Reizenstein, Charles L., Pittsburgh, Pa. Glass dish. Nos. 61,247–52; July 18.
Riordan, Patrick D., New York, N. Y. Flag for Ireland. No. 61,253; July 18.
Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Shade for lighting fixtures. Nos. 61,254–7; July 18.
Roettges, Frederick, Stamford, Conn., assignor to William Noe & Sons, New York, N. Y. Pedestal for lighting fixtures. Nos. 61,258–63; July 18.
Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Shade for lighting fixtures. No. 61,264; July 18.
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Weston, Donald M., assignor to Byron Weston Company, Dalton, Mass. Calendar mounting. No. 61,265; July 18.

Rice, Caroline S., executrix. (See Rice, Arthur L.)
Richardson, Ernest, College Hill Borough, Pa. Thermometer. No. 1,423,257; July 18.
Richardson, George R., Denbigh, N. Dak. Running gear. No. 1,423,153; July 18.
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Riley, Austin A., assignor of two-thirds to Central States Bridge Company, Indianapolis, Ind. Oil burner. No. 1,423,022; July 18.
Rivers, Willie L., and G. B. Dixon, Dallas, Tex. Hanger. No. 1,423,455; July 18.
Roberts, Eugene D., Tacoma, Wash. Clutch-operating mechanism. No. 1,423,023; July 18.
Roberts, George E., assignor to The Spencer Metal Products Company, Spencer, Ohio. Toy piano. No. 1,423,024; July 18.
Roberts, Nash & Co. (See Giovagnoli, John, assignor.)
Roberts, Park D. (See Roberts, Webster M. and P. D.)
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Roberts, Webster M. and P. D., St. Joseph, Mo. Machine for baking pastry products. No. 1,423,258; July 18.
Roberts, Webster M. and P. D., St. Joseph, Mo. Machine for and method of making pastry cones. No. 1,423,259; July 18.
Roberts, Webster M. and P. D., St. Joseph, Mo. Machine for and method of making pastry cones. No. 1,423,260; July 18.
Robichaux, Sosthene. (See Salter, D. M., and Robichaux.)
Robins Conveying Belt Co. (See Uhlarik, Julius C., assignor.)
Rockbestos Products Corporation. (See Heany, John A., assignor.)
Rockwell, Albert F., Bristol, Conn., assignor to Marlin-Rockwell Corporation, New York, N. Y. Device for producing extruded sheet metal. No. 1,423,361; July 18.
Rockwell, Clifton C., Tucson, Ariz. Animal trap. No. 1,423,261; July 18.
Rodgers, Claude M., and A. W. Wenger, Warsaw, Ind. Controller for fish lures. No. 1,423,025; July 18.
Rogers, Frank. (See Burke, P. W., and Breeding, assignors.)
Rollins, William T., assignor to R. Codman, Jr., Boston, Mass. Antiskid attachment for elastic tires. No. 1,423,026; July 18.
Roope, Rufus P., et al. (See Brown, Edward W., assignor.)
Rosak, Karl, Berlin, Germany. Manufacturing counter pieces to gauges, formed bars, profile pieces, and the like. No. 1,423,154; July 18.
Rose, Connie C. (See Cox, O. M., and Rose.)
Rose, Joseph E., Portland, Oreg. Artificial tooth. No. 1,423,027; July 18.
Roth, Arpad, New York, N. Y. Foot support. No. 1,423,456; July 18.
Roth, Ernest, Philadelphia, Pa. Driving means for tanning drums. No. 1,423,028; July 18.
Rowden, George V., Hove, England. Daylight developing tank for photographic roll films. No. 1,423,457; July 18.
Ruff, William, New York, N. Y. Gaseous-fuel burner. No. 1,423,155; July 18.
Russell, Henry M., Wheeling, W. Va. Changing-view display apparatus. No. 1,423,262; July 18.
Russell, Joseph C., Pittsburgh, Pa. Card index. No. 1,423,029; July 18.
Russell, Joseph C., Pittsburgh, Pa. Card index. No. 1,423,030; July 18.
Ryding, Herbert C., and A. W. Allen, Birmingham, Ala. Manufacture of open-hearth steel. No. 1,423,031; July 18.
Salter, Dougle M., and S. Robichaux, Saratoga, Tex. Cable clamp. No. 1,423,263; July 18.
Savary, André, Paris, France. Change-speed gear. No. 1,423,458; July 18.
Scheele, Walter T., Hackensack, N. J., assignor to Government of the United States, represented by the Secretary of the Navy. Pyrotechnic composition. No. 1,423,264; July 18.
Schirmacher, Karl, Hochst-on-the-Main, Germany, assignor to H. A. Metz, New York, N. Y. Manufacture of 9.10-dihalogenanthracene-β-monosulphonic acid. No. 1,422,889; July 18.
Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Geared turbine. No. 1,423,459; July 18.
Schmitt, Eugene, Cincinnati, Ohio. Outgauge. No. 1,423,156; July 18.
Schmitt, John G. (See Behn, A., and Schmitt.)
Schmitt, Ludwig, Chicago, Ill. Spring motor. No. 1,423,032; July 18.
Schmitt-Marcel, William, Florence, Italy. Finger-training device. No. 1,423,033; July 18.
Schneider, Charlie F., Enid, Okla. Cattle poke. No. 1,423,362; July 18.
Scholl, Henry L., Spokane, Wash. Window-sash holder. No. 1,423,034; July 18.
Schreiber, Louis, Holland, Mich. Spring seat. No. 1,423,460; July 18.
Schreyer, Ernest G., Chicago, Ill. Toy. No. 1,423,035; July 18.
Schuls, M., Company. (See Gustafson, Adolph P., assignor.)
Schwank, James O. (See Madigan, Thomas J., assignor.)
Schwars, Gotthilf H., Newark, and M. Vintschger, Ridgewood, assignors to The Pole and Tube Works, Inc., Newark, N. J. Container with removable locking cover. No. 1,423,157; July 18.
Schwitzer, Louis, assignor to Automotive Parts Company, Indianapolis, Ind. Bearing construction for fans. No. 1,423,265; July 18.
Scruby, Basil, and G. K. Harkness, Harlow, England. Mold for use in building walls, making blocks, slabs, tiles or briquettes. No. 1,423,461; July 18.
Sears, Roebuck and Company. (See Bohmker, John C., assignor.)
Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Shaping machine. No. 1,423,266; July 18.
Severance, Malvern W., Cleveland, Ohio. Cuff button. No. 1,423,267; July 18.
Severson, Samuel, Valders, Wis. Hair-cutting appliance. No. 1,423,363; July 18.
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Sewell, Daniel, Edmonton, Alberta, Canada. Auxiliary gasoline tank for automobiles. No. 1,423,158; July 18.
Shannon, Howard H., Denver, Colo. Tire protector. No. 1,423,030; July 18.
Sharp, Chester L., deceased, Lancaster, Ohio, G. Sharp, administratrix. Gas burner for furnaces. No. 1,422,891; July 18.
Sharp, Georgia, administratrix. (See Sharp, Chester L.)
Sharpe, Joseph, Hampton, Va. Aerial mounting for cameras. No. 1,423,364; July 18.
Sharpnack, James A., Rices Landing, Pa. Facing tool. No. 1,423,462; July 18.
Shatz, Barnett, Buenos Aires, Argentina. Device for graduating lines on ruled paper. No. 1,422,892; July 18.
Shaw, Al B., Medford, assignor to Shaw Specialty Co. Inc., West Medford, Mass. Stopper for hot-water bottles. No. 1,423,463; July 18.
Shaw, Al B., Medford, assignor to Shaw Specialty Co. Inc., West Medford, Mass. Stopper for hot-water bottles. No. 1,423,464; July 18.
Shaw Specialty Co. Inc. (See Shaw, Al B., assignor.)
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Shepherdson, William, New Liskeard, Ontario, Canada. Wood saw. No. 1,423,159; July 18.
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Simplex Paper Accessories Co. (See Alexay, Adalbert, assignor.)
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Slothower, Aaron, Warren, Oreg. Pruning saw. No. 1,423,506; July 18.
Smith, Carl A., Defiance, Ohio. Road-building apparatus. No. 1,422,895; July 18.
Smith, Charles F., and G. E. Curtiss, assignors to Landers, Frary & Clark, New Britain, Conn. Electric radiator. No. 1,423,039; July 18.
Smith, David C., Toledo, Ohio. Automobile lock. No. 1,423,269; July 18.
Smith, Edward D., Erie, Pa. Bank book and savings bank combined. No. 1,423,270; July 18.
Smith, Frank W., assignor, by mesne assignments, to Unit Motor Company, Kansas City, Mo. Internal-combustion multimotor. No. 1,423,365; July 18.
Smith, Roy E., Iuka, Ill. Grain door. No. 1,423,040; July 18.
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Societe Chimique de la Grande Parsisse. (See Haas, Louis, assignor.)
Society of Chemical Industry in Basle. (See Gams, A., and Wybert, assignors.)

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ERRATA.

1,426,596, page 997, in heading, assignment, name of assignee, for "The Dow Company" read *The Dorr Company.*

1,426,892, page 754, in heading, after residence of patentee insert *assignor to Mead Manufacturing Company, of Ballardvale, Vermont, a Corporation of Vermont.*

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[*] Nathan, jr. In re	183
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[d] Staso Laminated Slate Co. *v.* Stowell Mfg. Co	846

[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*) and of the United States Circuit Court of Appeals by the letter (d).]

Patents Nos. 1,424,145 to 1,424,749.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 301—No. 1. TUESDAY, AUGUST 1, 1922. Price—$5 per year.

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Issue of August 1, 1922.

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Designs	48—No.	61,287 to No. 61,334, inclusive.
Trade-Marks	146—No.	157,298 to No. 157,443, inclusive.
Labels	50—No.	24,770 to No. 24,819, inclusive.
Prints	17—No.	6,236 to No. 6,252, inclusive.
Reissues	1—No.	15,427.
Total	867	

Costa Rica and Honduras Give Notice of Withdrawal from the Convention.

Department of the Interior,
United States Patent Office,
Washington, D. C., July 24, 1922.

This Office has been officially informed that Costa Rica on September 30, 1921, and Honduras on February 17, 1922, denounced the Convention relating to Trade-Marks, signed at Buenos Aires August 29, 1910, in accordance with the provisions of Article XIX of said Convention (280 O. G., 195, 197).

THOMAS E. ROBERTSON,
Commissioner of Patents.

Nolan Act—Reciprocity of the Norwegian Laws Recognized.

(Order No. 2,770.)

Department of the Interior,
United States Patent Office,
Washington, D. C., July 17, 1922.

Notice is hereby given that the laws of Norway are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan act of March 3, 1921 (41 Stat. L., 1313), and that consequently the privileges specified in said act will be extended to citizens of Norway, subject to the limitation that extensions will not be granted to relieve defaults falling under section 2 of the act for a longer period than seven years and two months.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

Patent No. 1,326,788.

On June 24, 1922, a decision was rendered that Eugene Schneider was not the first inventor of the subject matter covered by claims 1, 2, and 3 of his Patent No. 1,326,788, subject, "Gun carriage for transport of railway trucks for firing from the railway," and no appeal having been taken within the time allowed such decision has become final.

Patent No. 1,358,463.

On May 3, 1922, a decision was rendered that James H. Rand, jr., was not the first inventor of the subject matter covered by claim 1 of his Patent No. 1,358,463, subject, "File, index, or the like," and no appeal having been taken within the time allowed such decision has become final.

Disclaimer.

828,242.—*Robert F. Phillips*, Carrick, Pa. Self-Oiling Car Wheel. Patent dated August 7, 1906. Disclaimer filed July 18, 1922, by the assignee, *The Phillips Mine & Mill Supply Company.*

Hereby disclaims from claim 2 any self-oiling car wheel in which the valve spring is inserted through a hole in the inner side wall of the hollow hub opposite the oil inlet;

Thereby limiting claim 2 to a self-oiling car wheel in which the valve spring is inserted otherwise than through a hole in the inner side wall of the hollow hub opposite the oil inlet.

Changes in Classification.

(Order No. 2,771.)

Department of the Interior,
United States Patent Office,
Washington, D. C., July 20, 1922.

A new examining division, No. XLIX, is hereby established, with Examiner F. P. Edinburg in charge, and it is directed that the following classes be transferred thereto, this order to take effect July 26, 1922:

Class 44 from Division XXXI.
Class 53 from Division XIX.
Class 98 from Division II.
Class 194 from Division XL.
Class 286 and Class 288 from Division XXXIX.
Class 208 from Division VII.

THOMAS E. ROBERTSON,
Commissioner.

4713

Condition of Applications Under Examination at Close of Business July 22, 1922.

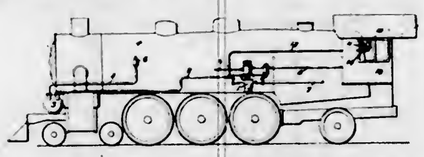
(Total number of applications waiting action, excluding Trade-Mark division, 67,789; Trade-Mark division, 8,408. Oldest new case, Apr 15, oldest amended, Apr. 28, 1921. The dates given are 1921. except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Dec. 7	*Jan. 12	946
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	Aug. 15	July 21	1,958
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 16	Aug. 19	930
234	4. MERRITT, A. D., Conveyers; Conveyors, Fluid Current; Conveyors, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 1	*Jan. 7	1,441
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 12	Oct. 10	1,139
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Oct. 10	*Feb. 27	1,358
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Oct. 25	Nov. 12	2,400
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 31	*May 12	942
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	June 16	*May 20	1,114
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	*Jan. 11	*Apr. 18	1,078
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 21	*Feb. 28	702
322	12. PIERCE, P. P., Machine Elements	Dec. 10	*Apr. 1	1,211
329	13. NIXON, O. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 23	*Apr. 3	1,091
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 24	*Mar. 25	1,238
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 16	Sept. 13	1,741
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	July 22	July 28	2,366
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Sept. 8	*Feb. 9	1,390
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	June 1	July 1	2,373
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	June 11	Dec. 22	1,317
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Feb. 16	*Feb. 17	1,562
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles: Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Oct. 4	Dec. 29	900
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Nov. 3	*Mar. 31	652
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	July 24	Nov. 16	827
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 17	*Mar. 4	1,212
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 11	*Apr. 22	432
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 5	*Jan. 6	1,080
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Oct. 3	Sept. 12	2,044
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 3	Sept. 23	1,694
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Oct. 27	*May 15	637
182	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 10	*May 4	1,453
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 1	Sept. 23	2,172
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Sept. 30	*Apr. 1	974
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Dec. 2	*Feb. 6	912
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 24	*Mar. 24	849
82	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 13	* Apr. 26	928
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 8	*Jan. 20	1,811
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Sept. 6	Sept. 23	1,865
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 22	Oct. 22	1,750
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 1	June 8	2,337
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 5	Oct. 24	2,829
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Feb. 23	*Mar. 7	793
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Aug. 23	July 18	1,961
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 18	Oct. 4	1,146
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 12	July 8	1,355
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Jan. 5	*Feb. 3	1,233
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 24	Dec. 5	1,281
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Oct. 7	Feb. 1	1,236
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Apr. 15	Apr. 28	2,829
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	Sept. 12	*Jan. 30	5,838
	Designs	Dec. 5	Dec. 30	2,466
	Labels and Prints	*June 20	*July 14	104

PATENTS

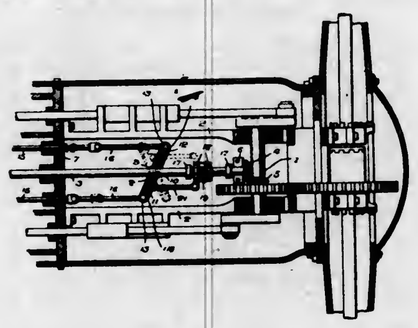
GRANTED AUGUST 1, 1922.

1,424,145. MEANS FOR PROTECTING PRESSURE GAUGES ON FLUCTUATING-PRESSURE WATER LINES. EARL A. AVERILL, Mount Vernon, N. Y., assignor to Locomotive Feed Water Heating Company, a Corporation of Delaware. Filed May 8, 1920. Serial No. 380,013. 1 Claim. (Cl. 73—31.)



The combination with a locomotive boiler feed pump of a pressure gauge connected to the discharge side of the pump and an air chamber associated with said gauge, said chamber opening into the connection which extends from the discharge side of the pump to said gauge whereby to prevent damage to the gauge.

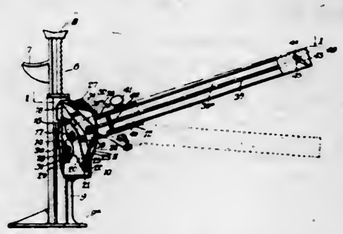
1,424,146. VALVE GEAR. HARTLEY O. BAKER, Pueblo, Colo., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed Oct. 19, 1918. Serial No. 258,800. 2 Claims. (Cl. 74—14.)



1. A mechanical movement for a valve gear comprising a shaft, a cam wheel pivotally mounted on said shaft to be swung to different positions, means mounted on said shaft and connected to said wheel for swinging same to different positions, an annular shoe mounted on the periphery of said wheel, and comprising complementary arcuate sections disposed end to end, securing means fastening the adjacent ends of said sections together, and links connected to said securing means to be reciprocated.

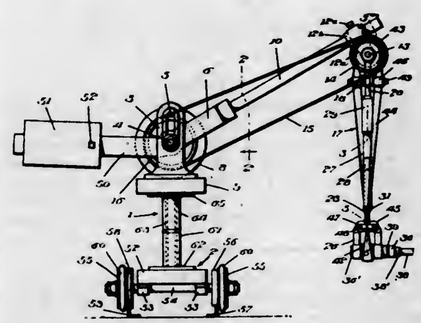
1,424,147. AUTOMOBILE AND CARRIAGE JACK. GEORGE R. BARKER, Joliet, Ill., assignor to William E. Pratt, Chicago, Ill. Filed July 26, 1920. Serial No. 399,137. 4 Claims. (Cl. 254—111.)

1. In a jack, a standard, a rack sliding therein, a support on the rack, a holding pawl, a hand lever, a traveling pawl on the hand lever, a link connecting the pawls, a spring engaging the link and normally exerting pressure thereon to force the pawls into engagement with the rack, means movable longitudinally of the handle for



shifting the spring to exert pressure on the pawls tending to withdraw them from the rack, means for throwing the holding pawl against the rack when the handle is raised, and means for throwing the traveling pawl against the rack when the handle is lowered.

1,424,148. FLEXIBLE OPERATING MECHANISM. PERCY L. BILLINGSLEY, Orlando, Fla. Filed May 17, 1921. Serial No. 470,413. 12 Claims. (Cl. 74—21.)

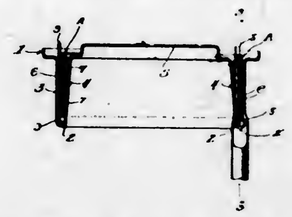


1. A mechanism of the character described comprising a motor, a support for the motor, a boom, operating means carried by the boom and connected to the motor, and means for pivotally supporting the boom and adjustable to bring the axis of the pivot into alinement with the axis of the motor.

1,424,149. BURNER. JOHN S. BRENNAN, Milwaukee, Wis. Filed July 13, 1920. Serial No. 395,851. 2 Claims. (Cl. 158—87.)

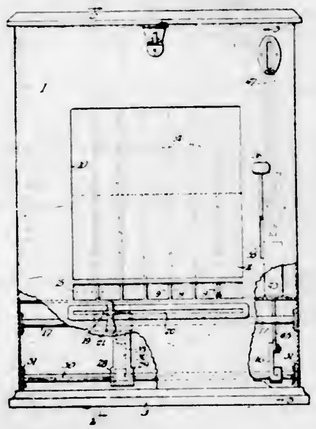
1. The combination of a ribbon wick adapted to be folded into circular shape, a reinforcing metallic strip having a plurality of legs extending therefrom to a point beyond the wick edges and spaced apart along the cir-

cumference, and a circular wick cup for the reception of the strip, the legs of said wick being adapted to rest



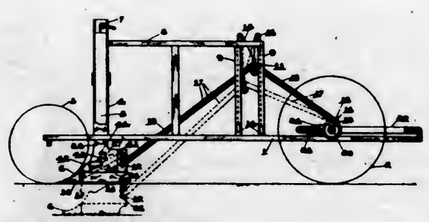
upon the bottom of the cup for holding the wick edge in suspension and permitting fuel to reach said edge and the sides of the wick.

1,424,150. VENDING MACHINE. ROBERT CRAIG BURNHAM, Richland Center, Wis. Filed Jan. 5, 1921. Serial No. 435,125. 11 Claims. (Cl. 211—8.)



1. In a vending machine, the combination of a plurality of stationary magazines, each adapted to contain a number of articles superposed one above the other, ejecting means adapted to be selectively adjusted to a corresponding position adjacent the lower end of each magazine; and a coin controlled device for actuating said means to effect the removal of the article from the selected magazine.

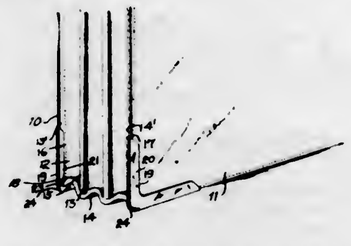
1,424,151. DITCHING MACHINE. ARDEN CAMERON, Norwich, Ontario, Canada. Filed July 29, 1920. Serial No. 399,727. 7 Claims. (Cl. 37—25.)



1. Ditching apparatus comprising a wheeled frame; a vertically adjustable digger supported by the frame; an elevator deck formed in two parts hinged together, the forward end of the forward part being hinged on the digger and the rearward end of the other part on the frame; yielding means tending to raise the elevator deck intermediate of its ends; and an endless conveyor carried by said deck.

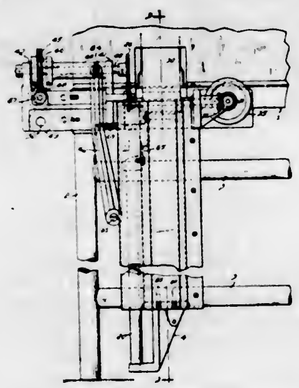
5. In a ditching machine, a digger provided with spaced landsides; a digger point with upwardly inclined upper surface; and a short endless conveyor located between the landsides, its upper side forming substantially an upward extension of said surface; an endless elevator conveyor, the lower end of which is supported between the landsides of the digger below the rear end of the short conveyor.

1,424,152. BRIEF CASE. BENJAMIN CHARSKY, New York, N. Y., assignor to Mochar Leather Goods Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 2, 1921. Serial No. 512,267. 5 Claims. (Cl. 150—30.)



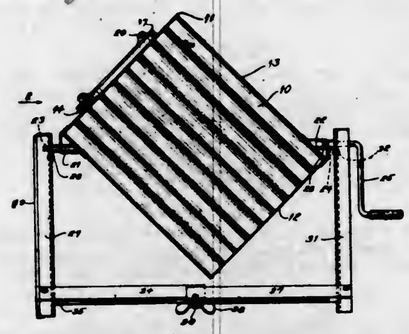
1. A channel member adapted to be placed about a lower corner of a brief case comprising an L shaped channel member, substantially U shaped in cross section throughout, one leg of the U being narrower than the other and securing prongs on the outer edge of the shorter leg.

1,424,153. PLATE-RESTACKING MECHANISM FOR ADDRESSING MACHINES. CLIFTON CHISHOLM, Cleveland, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 22, 1920. Serial No. 418,762. 20 Claims. (Cl. 101—47.)



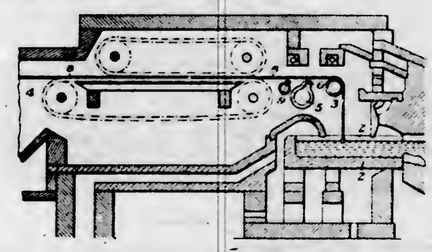
1. In a restacking mechanism for addressing machines, the combination with means for holding a drawer, of an elevator adapted to operate in the drawer, means for inserting plates in the drawer above the elevator, and means for automatically lowering the elevator for each plate inserted.

1,424,154. WASHING MACHINE. ALFRED A. CLARK, Baltimore, Md. Filed May 28, 1920. Serial No. 384,801. 4 Claims. (Cl. 68—18.)



1. The combination with a container for washing machines comprising a bottom, a top, a conjoining wall, said top having an opening to provide access to the interior of said container, of a pintle and a pintle socket for revolubly supporting said container, said pintle being secured to said wall near said top and said socket being secured to said wall, near said bottom and terminating above the plane of said bottom, and a crank handle mounted in said socket.

1,424,155. MANUFACTURE OF SHEET GLASS. HENRY F. CLARK, Belle Vernon, Pa., assignor to Window Glass Machine Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Aug. 5, 1919. Serial No. 315,426. Renewed Dec. 26, 1921. Serial No. 524,814. 8 Claims. (Cl. 49—17.)

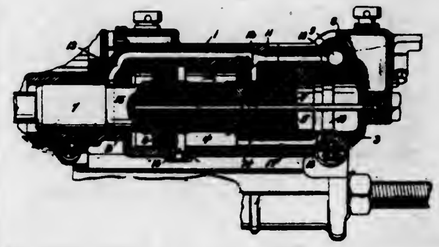


1. The method of drawing glass sheets, consisting in drawing a sheet upwardly in a generally vertical direction, bending it over a bending device and moving it in a generally horizontal direction, and subjecting the lower surface of the sheet after it passes the bending device to the action of a heated jet, substantially as described.

8. In apparatus for drawing glass sheets from a molten bath, a bending device, means for drawing a continuous sheet upwardly in a vertical direction and thence over a bending device in a generally horizontal direction, means for fire flashing the under side of the sheet after it passes the bending device, and means for cooling the fire flash surface, substantially as described.

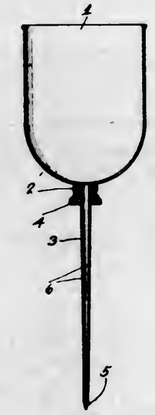
1,424,156. FLUID-OPERATED MOTOR. OMAR E. CLARK, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Mar. 26, 1918. Serial No. 224,742. 8 Claims. (Cl. 121—17.)

1. In a tool of the character set forth, the combination with a cylinder member having piston chambers of different diameters, of a piston having portions of different diameters faced in the same direction and respectively operating in the chambers, means formed in the cylinder member for delivering motive fluid first to the larger piston chamber, means in the cylinder member controlled by a



portion of the piston for afterwards delivering motive fluid to the smaller portion of the piston, means for permitting the fluid to escape from both chambers to a point outside the cylinder member, and other means directing motive fluid against an opposing portion of the piston to move the piston in an opposite direction.

1,424,157. PLANT WATERER. HARRY A. COOK, Dixon, Nebr. Filed Jan. 8, 1921. Serial No. 435,901. 2 Claims. (Cl. 61—13.)

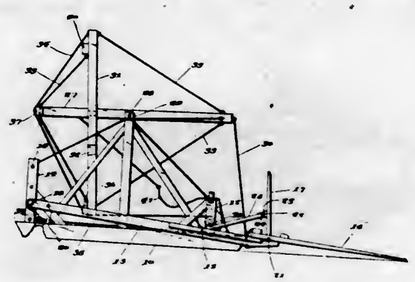


1. A plant waterer of the class described including a receptacle and a spout removably secured to said receptacle and extending downwardly therefrom said spout having its outer closed end pointed and the body apertured, said spout having its open end widened and threaded and screwed on the neck, a flange provided on the spout at its said widened end, said flange supporting the receptacle above the surface of the ground and preventing the spout from further penetrating the ground.

1,424,158. HAYSTACKER. CLAUDE COOLEY, Lucerne, Mo. Filed Mar. 10, 1921. Serial No. 451,270. 7 Claims. (Cl. 214—131.)

1. A hay-stacker comprising a supporting frame, a vertically swinging load-supporting fork carried by the frame, a lever carried by the frame and pivoted intermediate its ends, a connection between the fork and one arm of the

lever, lever-operating arms extending laterally from the other arm of the lever, and an operating line connected to



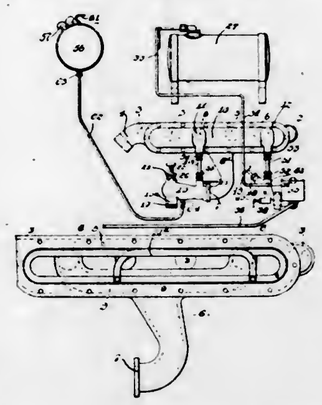
one of the lever-operating arms, and passing across the outer end of the second-mentioned lever arm and also across the outer end of the other lever-operating arm.

1,424,159. BOX. ERNEST DOBNEY, Toronto, Ontario, Canada, assignor of one-third to Francis E. Dennis and one-third to Cyril Dennis, both of Toronto, Ontario, Canada. Filed Dec. 8, 1920. Serial No. 429,080. 2 Claims. (Cl. 220—43.)



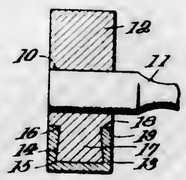
1. In a box, the combination with the body and cover having its flange loosely surrounding the body, of a removable ring arranged between the cover flange and the side wall of the body.

1,424,160. HYDROPNEUMATIC GAS GENERATOR. JOHN W. DUNTLEY, Chicago, Ill. Filed Oct. 10, 1917. Serial No. 195,870. 8 Claims. (Cl. 123—25.)



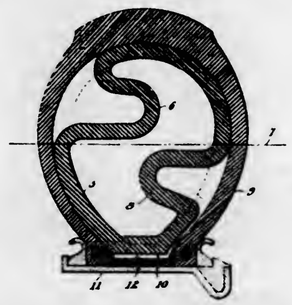
1. In a device of the class described, a combined exhaust and intake manifold, an atomizer, a carbureting chamber, a pipe affording communication between the atomizer and carbureting chamber, said pipe having a part thereof disposed in the manifold, means for supplying mixed air and water vapor to the atomizer, an automatic air valve for said carbureting chamber, and means for connecting the carbureting chamber with the intake manifold.

1,424,161. HAMMER. FRANK W. FOLEY, Dollar Bay, Mich. Filed Apr. 6, 1922. Serial No. 550,121. 2 Claims. (Cl. 145—29.)



1. A hammer comprising a head of relatively soft material carrying a hammer face and an eye for a handle and a hard face secured to said head enclosing one end thereof.

1,424,162. INNER TUBE. BERT G. GOBLE, Tulsa, Okla. Filed Nov. 12, 1921. Serial No. 514,710. 4 Claims. (Cl. 152—13.)



1. As an article of manufacture, an endless inner tube of the compression type molded of readily compressible material with a single annular depression or fold in each side thereof, the fold at one side of the tube being located outwardly of the other fold and said folds being substantially concentric and providing the tube with an external diameter greater than the internal diameter of the casing with which it is to be used.

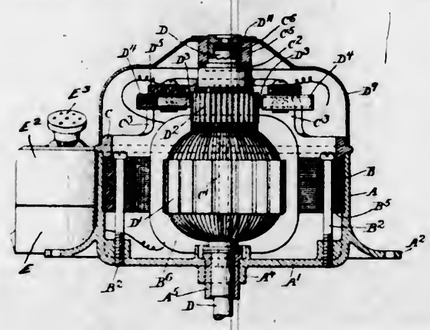
1,424,163. BLOWPIPE. JOHN HARRIS, Lakewood, Ohio, assignor of one-half to James R. Rose, of Edgeworth, Pa. Filed Aug. 26, 1918. Serial No. 251,409. 5 Claims. (Cl. 158—27.4.)



1. A tip for blowpipes comprising a core member having a bore therethrough and an external circumferential groove, the portion of said core at one side of said groove being frusto-pyramidal and the portion at the other side having cylindrical surfaces and longitudinal passageways

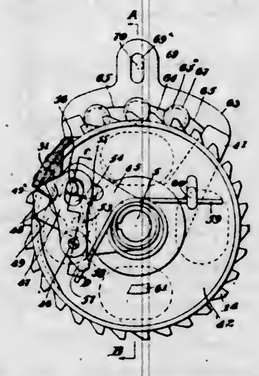
disconnected from said bore, in combination with a shell having a frusto-conical portion closely embracing the first mentioned portion of said core and a cylindrical portion closely embracing the second mentioned portion of said core.

1,424,164. ELECTRIC MOTOR. HOWARD EARL HOOVER, Chicago, Ill., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio, a Corporation of Ohio. Filed Sept. 16, 1918. Serial No. 254,256. 10 Claims. (Cl. 172—36.)



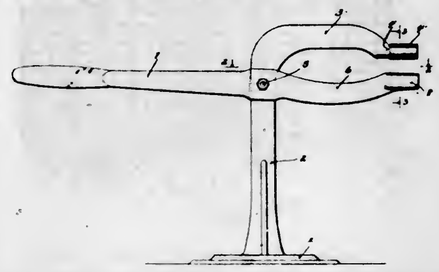
3. In a motor the combination with a cylindrical main frame of an annular ring adapted to engage one end thereof, means for holding the ring in position upon the frame, a bridge extending diametrically across the ring and across the frame and a motor bearing carried by said bridge, holding screws adapted to hold the ring in position on the frame, said screws being in line with the central axis of the bridge, the bridge being mounted on the frame by a pair of fingers or arms extending one on either side of each of the holding screws.

1,424,165. CLUTCH. JOSEPH B. HOWE, Worcester, Mass., assignor to George S. Harwood & Son, Boston, Mass., a Copartnership consisting of Sydney Harwood, Newton, Mass., and John H. Harwood, Brookline, Mass. Filed Dec. 13, 1920. Serial No. 430,568. 11 Claims. (Cl. 192—28.)



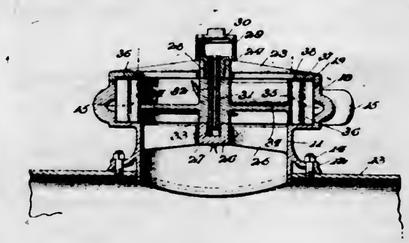
1. A driven shaft and a driving pulley and in combination therewith, a clutch device for connecting the pulley and shaft, said clutch device comprising a support fast on the shaft, a driving dog pivoted on said support, said dog having a tail projecting beyond its pivot, a spring element engaging the tail of the dog and constantly tending to swing said dog to inoperative position, and means constructed and arranged to render such spring element ineffective to swing the dog during the normal driving operation of the clutch, but in stopping to permit such spring to become effective for such purpose upon movement of the dog initiated by other means.

1,424,166. SHOE-COUNTER FLEXOR. WILLIAM J. KAPPEL, Milwaukee, Wis. Filed Mar. 8, 1921. Serial No. 450,731. 3 Claims. (Cl. 12—129.2.)



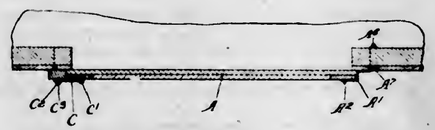
1. As a new article of manufacture, a base bracket having an overhanging arm terminating with a fixed cylindrical anvil, and a forked lever pivoted to the arm, the fork terminating with pressure fingers parallel the anvil and spaced apart equal distances from a vertical alignment through said anvil.

1,424,167. TURBINE. HENRY A. KING, Baltimore, Md. Filed Dec. 6, 1919. Serial No. 342,937. 10 Claims. (Cl. 253—56.)



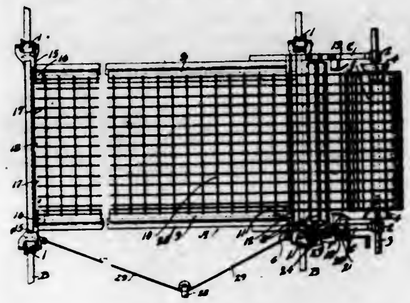
1. A device of the character described including a stator, a rotor journaled thereon and provided with driving blades, means for introducing a motive fluid to the stator to act against said blades, and means carried by the rotor obstructing the path of discharge whereby the fluid may act between the stator and rotor for suspending the rotor.

1,424,168. FREIGHT-CAR LOCK. ALBERT KLINE, Chicago, Ill. Filed May 20, 1920. Serial No. 382,697. 9 Claims. (Cl. 292—205.)



1. A lock plate for freight car doors consisting of a unitary plate comprising a plurality of perpendicular sections at right angles with each other and adapted to engage the several surfaces of the freight car door and the car body, one part of the lock plate slotted and adapted to penetrate a recess in the car body.

1,424,169. MACHINE FOR LAYING REENFORCING FOR CONCRETE PAVEMENT. PHILIP A. KOEHRING, Milwaukee, Wis., assignor, by meane assignments, to Koehring Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 13, 1921. Serial No. 469,297. 13 Claims. (Cl. 94—39.)



1. In a machine for mechanically placing sections of reenforcing upon concrete, in concrete road construction, the combination of a carrier adapted to operate over the subgrade, means for feeding the reenforcing from the machine over and upon laid concrete, and a strike-off carried by said machine to strike off the preliminary layer of concrete upon which the reenforcing is to be deposited.

1,472,170. METHOD OF FORMING SOLDERED SEAMED TUBING. DWIGHT B. LEE, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 14, 1919, Serial No. 282,594. Renewed Feb. 23, 1922. Serial No. 538,796. 19 Claims. (Cl. 113—33.)



1. The method of forming soldered seamed tubing, comprising the continuous advancement of a metallic strip and the successive forming of the strip into a tube and immersing of said tube in a solder bath during the continuous advancement thereof.

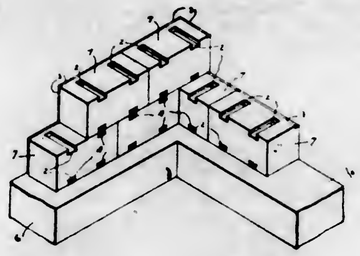
1,424,171. MACHINE FOR MANUFACTURING TUBING. DWIGHT B. LEE, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 14, 1919, Serial No. 282,595. Renewed Feb. 23, 1922. Serial No. 538,797. 11 Claims. (Cl. 113—33.)



1. In a metallic tube forming machine, the combination of tube forming and closing mechanism, a solder bath, and means for continuously advancing a metallic strip successively through said tube forming and closing mechanism and immersing the formed tube in said solder bath.

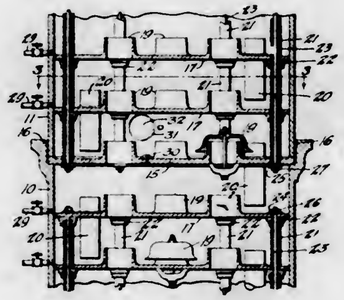
1,424,172. BUILDING CONSTRUCTION. SAMUEL SOLOMEN LEVY, Mattapan, Mass., assignor to Sarah Levy, Boston, Mass. Filed Oct. 30, 1920. Serial No. 420,587. 2 Claims. (Cl. 72—37.)

1. A building block of cement having on both the top and bottom faces two dovetail grooves extending transversely from the inner face part way only to the outer face, said grooves being placed so that the distance between the grooves on any face is twice that between each groove and the end of the block, whereby when the blocks are laid up in a wall with the blocks in adjacent courses breaking joint the two grooves in the top face of any



block in one course are in alignment with the grooves in the meeting ends of two blocks in the course above, all of the grooves being open at the inner face of the block so that the blocks may be laid up dry and subsequently mortar or cement may be forced into the aligned grooves to bond the blocks together.

1,424,173. DISTILLING COLUMN. FRANK E. LICHTENTHALER, Newton Highlands, Mass., assignor to The Walter E. Lummus Company, Boston, Mass., a Corporation of Massachusetts. Filed May 8, 1918. Serial No. 233,247. 3 Claims. (Cl. 195—13.)

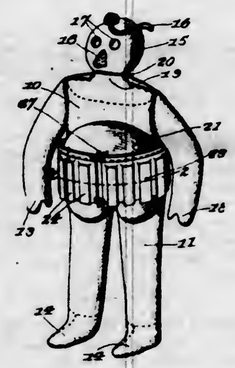


1. A tower for distillation and similar processes having, in combination, an outer casing, a plurality of transverse decks adapted to divide the interior of the casing into compartments, means for supporting one of the decks, and means cooperating with the other decks and arranged so that the latter are supported by the first mentioned deck.

1,424,174. LIFE-SAVING SUIT. JAMES F. MOADICA, Philadelphia, Pa. Filed Apr. 8, 1921. Serial No. 459,553. 2 Claims. (Cl. 9—20.)

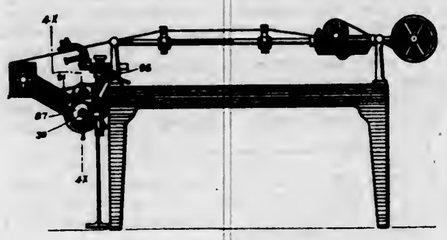
1. A life-saving suit comprising a one-piece body and nether garment having a tubular extension on the upper end through which the wearer enters the suit, said tubular extension having a puckering string in its upper end to close the extension over the head of the wearer to form

a mask, said extension having eye and nose elements and means on the body portion of the garment interchangeable



across the shoulders of the garment for drawing the lower portion of the tubular extension closely around the neck of the wearer.

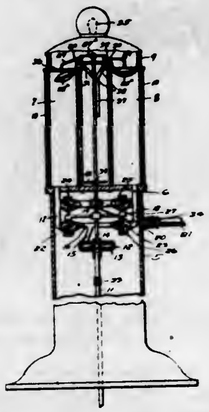
1,424,175. PAPER-CUTTING MECHANISM. WILLIAM F. MORSE, Rochester, N. Y., assignor to Samuel R. Parry, Rochester, N. Y. Original application filed June 29, 1918, Serial No. 242,648. Divided and this application filed Sept. 28, 1920. Serial No. 413,400. 2 Claims. (Cl. 164—4.3.)



1. In a box covering machine, the combination of a shear having a cutting knife with the back thereof rounded off at the top, a ledger blade set at substantially right angles to the cutting knife, each of said knives having an inclined edge so as to give a moving point of contact with each other, and the ledger blade being mounted to swing rearwardly as the cutting blade moves in contact therewith.

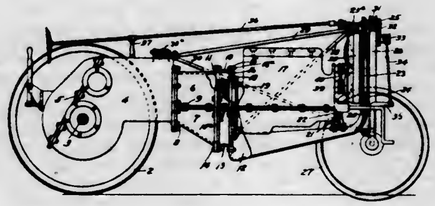
1,424,176. MULTIPLE-CHAMBER VISIBLE-FLOW OIL PUMP. GEORGE B. NICHOLSON, Pittsburgh, Pa. Filed July 26, 1921. Serial No. 487,583. 3 Claims. (Cl. 73—28.)

1. A device of the character described comprising a support, a pair of transparent containers thereon of predetermined capacity, a source of liquid under pressure, conduits leading from said source of liquid under pressure to the several containers, valves in said conduits, a fluid motor disposed in the path of the liquid flow, means actuated thereby for shifting said valves, and means for restraining said actuating means comprising float operated



elements associated with the containers and adapted to be elevated by the liquid in the containers for releasing the restraining means.

1,424,177. TRACTOR. LEONARD NILSON, Wayzata, Minn. Filed July 21, 1919. Serial No. 312,357. 9 Claims. (Cl. 180—54.)

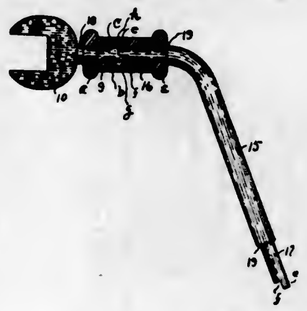


1. A traction machine comprising rear traction wheels and an axle, a transmission housing mounted on said axle, a clutch housing secured to the forward portion of said transmission housing, a frame section secured to said clutch housing and projecting forwardly therefrom and having an upwardly extending forward end, forward wheels and an axle wherein said upwardly projecting forward end is horizontally pivoted, and a source of motive power carried by said frame section below its horizontal pivot on said axle and having a driving connection with said rear axle through said clutch housing.

1,424,178. WRENCH. CHARLES H. NOYES, Mondamin, Iowa. Filed Nov. 1, 1920. Serial No. 420,968. 1 Claim. (Cl. 81—119.)

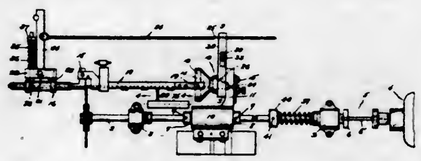
In combination, a wrench-head provided with a rectilinear shank having a recess opening on its end and side, a handle provided with a rectilinear part having a recess opening on its end and side, a coupling-block open at its ends to receive said shank and to receive said rectilinear part of the handle, said recess of said shank having a facet disposed in line with the longitudinal axis of the

shank, the recess of the rectalinear part of said handle having a facet disposed in line with the longitudinal axis of said rectilinear part, to permit engagement of said



facets one with the other when the shank and handle are inserted in the coupling-block and moved in directions of each other.

1,424,179. TUBE-CUTTING MECHANISM. WILLIAM S. PRITCHARD, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of New York. Filed Oct. 27, 1919. Serial No. 333,796. 10 Claims. (Cl. 29—69.)



1. In a mechanism for cutting continuously moving tubing, the combination with a laterally movable guide through which the tubing is delivered, of a rotary severing device having a fixed axis of rotation, a gauge located in advance of said severing device, a member carried by said gauge and actuated by the forward end of the advancing tubing, and a second member for moving said guide laterally across the path of the severing device, said second member being actuated from said gauge and its movements being controlled by said first mentioned member.

1,424,180. TUBE-CLOSING MECHANISM. WILLIAM S. PRITCHARD, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of New York. Filed Mar. 14, 1919, Serial No. 282,593. Renewed Mar. 31, 1922. Serial No. 548,523. 11 Claims. (Cl. 153—54.)



2. The combination with mechanism for continuously advancing a tube, of means operating upon the advancing tube for simultaneously severing said tube and closing the end thereof.

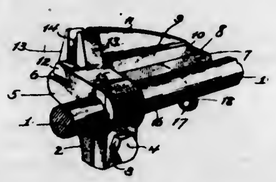
1,424,181. METHOD AND MACHINE FOR SOLDERING TUBING. WILLIAM S. PRITCHARD, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of New York. Filed Mar. 24, 1919, Serial No. 284,744. Renewed Mar. 31, 1922. Serial No. 548,524. 14 Claims. (Cl. 11.3—33.)

1. The method of forming soldered seamed tubing, comprising the advancement of a metallic strip, forming and closing said strip into a tube during such advancement, closing the forward end of the tubing, depressing the advancing tubing beneath the surface of a solder bath, straightening the soldered tubing, and severing into predetermined lengths.



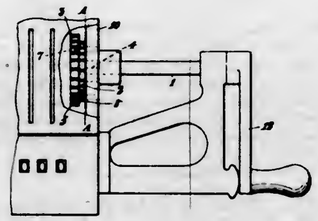
2. In a metallic tube-forming machine, a series of forming rolls and die for continuously advancing a metallic strip and forming the same into a closed tube, a soldering bath, means for deflecting and guiding the formed tubing through said soldering bath, and a series of rolls for straightening the soldered tubing, said rolls being driven at slightly greater surface speed than said forming rolls and cooperating therewith to advance the strip with cumulative force.

1,424,182. COMBINED TENSION DEVICE AND GUIDE FOR THREAD. HAL RIVIERE, Columbus, Ga. Filed Feb. 15, 1921. Serial No. 445,215. 2 Claims. (Cl. 28—71.)



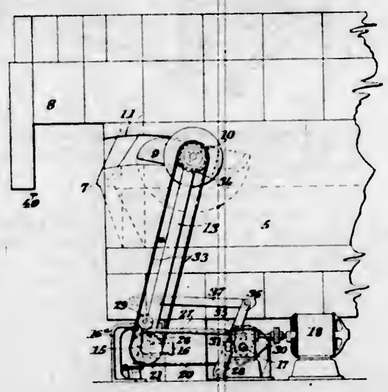
2. In a device of the character described, the combination with a bracket and means for supporting the same, of an arm or bar projecting from said bracket and constituting a lower tension member, ears projecting upwardly from said bracket and spaced apart, an upper tension member over and adapted normally to rest upon the lower tension member and freely movable relatively to the same, and a shank on said upper tension member passing between said ears and recessed in opposite sides to receive said ears, said shank being freely movable in a vertical direction between said ears.

1,424,183. FULL-STROKE MECHANISM FOR CALCULATING MACHINES. KARL VIKTOR RUDIN, Stockholm, Sweden. Filed Sept. 16, 1920. Serial No. 410,638. 2 Claims. (Cl. 235—129.)



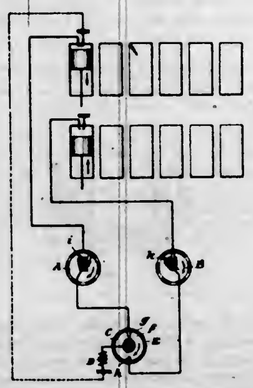
1. In combination with the crank shaft of a calculating machine of the Trinks type, a reverse lock comprising a toothed disc having a segmental notch, said disc being arranged for rotation with said shaft, a spur gear revoluble with said disc; a shaft mounted for rotation, a second gear fast on said last named shaft and engaged with the first named spur gear, a locking element loosely mounted on said last-named shaft and arranged to engage the teeth of said disc, yieldable means to cause said locking element to turn by frictional contact with said second gear, and means to limit the extent of the turning movement of said locking element.

1,424,184. OBTAINING GLASS. JESSE M. SAID, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Feb. 9, 1921. Serial No. 443,663. 3 Claims. (Cl. 49—55).



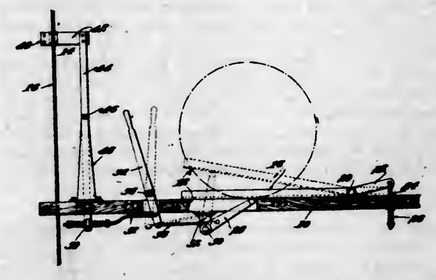
1. In apparatus for delivering molten glass, the combination of a ladle mounted on a horizontal axis over a pool of glass, means for imparting movement to said ladle on its axis to cause it to enter the glass and obtain a quantity thereof, means for swinging the axis of the ladle to cause the ladle to clear the pool, means for inverting the ladle so as to discharge a quantity of glass therefrom, and means for returning the ladle to its position over the pool.

1,424,185. DEVICE FOR SIMULTANEOUSLY STARTING A PLURALITY OF INTERNAL-COMBUSTION ENGINES. MAX SCHÄFER, Stuttgart, Germany, assignor to the Firm Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Dec. 12, 1919. Serial No. 344,477. 2 Claims. (Cl. 123—148.)



1. Groups of cylinders of an internal combustion engine or engines, each group having a separate normal ignition apparatus with a normal ignition current distributer, in combination with a starting ignition device comprising a starting-current distributing-member in each normal distributer, a single starting magneto generator for generating starting currents, and an auxiliary distributer for alternately transferring current impulses produced by the starting magneto generator to the said various distributing members in the normal distributers.

1,424,186. AUTOMOBILE ELEVATOR. PHILIP L. SCHUYLER, Scituate, and CLARENCE M. SNOW, Boston, Mass., assignors to the Trustees of The Massachusetts Automobile Club Trust. Filed Dec. 20, 1920. Serial No. 431,826. 2 Claims. (Cl. 187—97.)



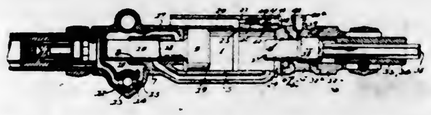
1. An automobile carrier having a floor, a blocking bar arranged transversely of the path of the vehicle on to or off of the floor, a pair of levers secured to the floor and supporting the blocking bar, lifting levers pivoted to the floor, having ends which engage the blocking bar supporting levers, and a rock shaft on which said lifting levers are secured, operating when turned to lift the blocking bar into position to block the egress of the automobile from the carrier.

1,424,187. CONTAINER FOR FLUIDS FOR INJECTION PURPOSES. JOHN J. SEELMAN, Milwaukee, Wis. Filed Mar. 10, 1920. Serial No. 364,861. 2 Claims. (Cl. 215—79.)



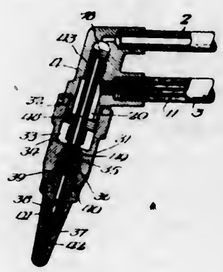
1. In a container of the class described, the combination with a tube, of a self-sealing rubber dam at one end of the tube, and a stopper at the other end of the tube, said stopper being provided with means for introducing purified air into the interior of the tube while fluid is withdrawn therefrom.

1,424,188. ROCK DRILL. WILLIAM A. SMITH, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Oct. 18, 1917. Serial No. 197,261. 7 Claims. (Cl.121—10.)



1. In apparatus of the character set forth, the combination with a motor having a barrel, a hammer and a drill receiving chuck, of an exposed collar interposed between the front end of the barrel and the rear end of the drill receiving chuck, a tappet in the collar for transmitting the blows of the hammer to a tool in the chuck and also directing cleansing fluid to such tool, side bolts connecting the chuck and motor for clamping the same against the interposed collar, the exposed portion of the collar having means projecting between the side bolts for supplying cleansing fluid to the blow-transmitting fluid and directing means, and packing interposed between the collar and the barrel and chuck and forced thereby against the tappet for preventing leakage around said tappet.

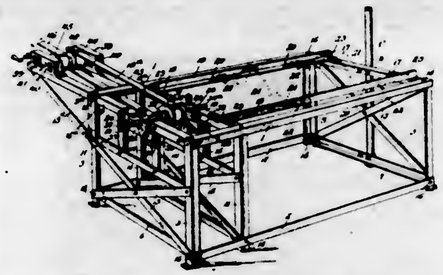
1,424,189. ACETYLENE TORCH. JOHN J. STROBOT, Chicago, Ill., assignor to Fidelity Brass Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 9, 1919. Serial No. 288,727. 7 Claims. (Cl. 158—27.4.)



3. In a torch, a head having a threaded socket therein, an oxygen passage leading to said socket, a chamber in the lower portion of said head, an acetylene passage leading to said chamber, a member formed with a longitudinal bore and having its upper end screwed into said socket, a nozzle body screwed onto the lower portion of said head and formed inside with an extension of said chamber around said member and having a restricted bore and a shoulder around the upper end of said bore, the lower end of said member extending through said restricted bore with clearance for the passage of the acetylene downwardly through said bore, and a nozzle tip screw-connected with said nozzle body and provided with a bore leading from the lower end of said member, there being a mixing space formed between the lower end of said member and the upper end of said nozzle tip.

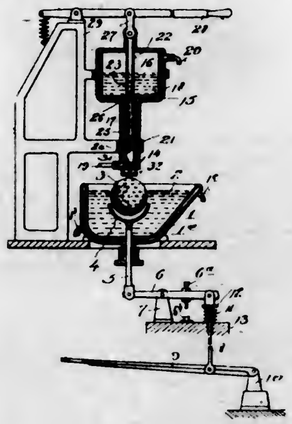
1,424,190. AUTOMOBILE REPAIR STAND. JOHN W. COLE and ALVIA E. JOHNSON, St. Francis, Kans. Filed Oct. 9, 1920. Serial No. 415,798. 8 Claims. (Cl. 29—89.)

1. An engine stand having a frame formed of longitudinal and cross bars and uprights joined together, certain of the cross bars being longitudinally slotted, and longitudinal angle bars supported upon and adjustably connected to the cross bars by way of the longitudinal slots thereof



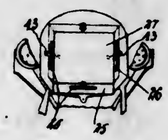
and spaced from said longitudinal bars and said longitudinal angle bars being longitudinally slotted for attachment of the engine thereto.

1,424,191. BALANCING BALLS. ROBERT FLEMING ARNOTT, Montclair, N. J. Filed Jan. 13, 1921. Serial No. 437,079. 14 Claims. (Cl. 154—17.)



1. The method of balancing a ball consisting in ascertaining the lighter side of the ball and injecting material into such side of the ball to add weight thereto.

1,424,192. AUTOMOBILE ENGINE-HOOD COVER. JOHN A. BALACTAS and KIRIL M. BALACTAS, Ford City, Canada. Filed July 6, 1921. Serial No. 482,691. 3 Claims. (Cl. 180—69.)

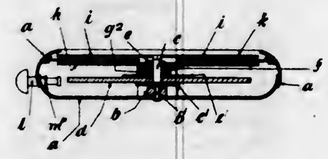


1. A covering for a vent in the engine hood of an automobile comprising a flexible water-proof member engaging over said vent, a metal element spaced outwardly from said member, bow spring elements connected to said metal element and bearing on said member, and a strap engaging said metal element to press the same toward the said member.

1,424,193. PROCESS OF MAKING PHOSPHOROUS OXYCHLORIDE. THOMAS LEES BARTLESON, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 21, 1920. Serial No. 418,574. 4 Claims. (Cl. 23—10.)

1. The process of producing phosphorous oxychloride which compriaes bringing phosgene into contact with a metal phosphate at a high temperature.

1,424,194. DEVICE FOR CALCULATING OR COMPUTING PURPOSES. HARRISON BROTHERTON, Brierfield, and FRANK BROTHERTON, Bowdon, England. Filed May 9, 1921. Serial No. 468,097. 1 Claim. (Cl. 235—120.)



In a device of the kind specified, a centrally mounted collar with a broad flange bearing against a pointer disc connection solely for forming connective frictional means whereby the motion of the one pointer disc is transmitted to a second one, when the braking operation is not introduced, and an externally operated button braking device capable of bearing peripherally against one of said pointer disc connection when required, substantially as herein set forth.

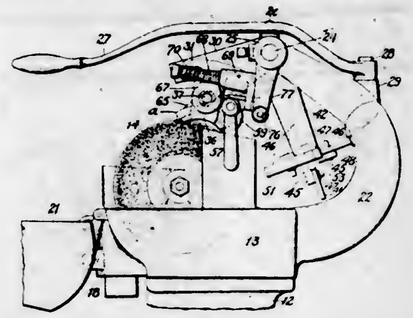
1,424,195. WATCH AND CLOCK. JOSEF DEMKO, Zabokreky, and PAUL GRESCHNER, Nemécký Pravno, Czechoslovakia. Filed June 2, 1921. Serial No. 474,534. 2 Claims. (Cl. 58—128.)



1. A watch having shifting hour figures, comprising a wheel mounted on the hour arbor, a movable dial having two notches, a pawl having a tooth engaging with one of the two notches in the movable dial, means for releasing said dial after a complete revolution of the hour hand, a spring, means for stressing the spring alternately in different directions, thereby causing the dial to rotate in one or the other direction.

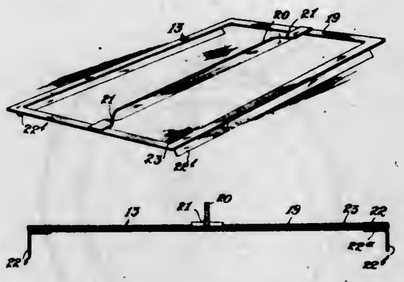
1,424,196. MACHINE FOR GRINDING CURVED TRIMMING BLADES. ALFRED B. FOWLER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 22, 1919. Serial No. 319,181. 25 Claims. (Cl. 51—100.)

1. A machine for grinding trimming blades, having, in combination, a grinding wheel, a carriage, a fixed guideway, means for causing movement of the carriage along the guideway to grind the entire edge of the blade, means to rock the carriage to impart predetermined shape to the blade, and means for feeding the blade edgewise on the carriage toward the wheel.



2. A machine for grinding trimming blades, having, in combination, a grinding element, a slideway, a carriage mounted to slide and rock on said slideway, mechanism for controlling rocking movement of the carriage, and means to feed the blade edgewise along the carriage toward the grinding element.

1,424,197. SCALE AND DIRT COLLECTOR. FRANK M. GEBHARD, Steele, N. Dak. Filed Feb. 23, 1921. Serial No. 447,124. 1 Claim. (Cl. 210—169.)

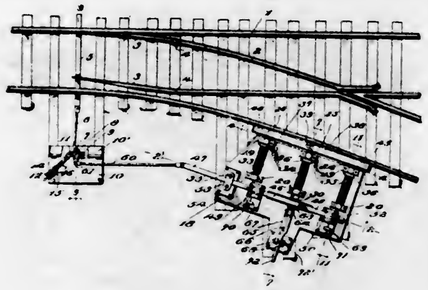


A screen for a filter of the class described, comprising a rectangular frame consisting of side and end bars, the end bars being flat, each side bar comprising an elongated section, which is U-shaped in cross section and an angular section engaging the U-shaped section and having a depending flange, a mesh screen carried by the frame and having its edges clamped within the U-shaped sections of said side bars, a brace extending longitudinally of said frame, said brace comprising a body portion having twisted ends, the ends resting evenly upon and being secured to the flat end bars of the frame, the body portion of the brace extending at right angles to said twisted ends, said bar engaging said mesh screen to reinforce the same as liquid flows therethrough, all as set forth.

1,424,198. FLYING SWITCH. FRANK W. HENRIKSON, Mulberry, Kans. Filed Sept. 13, 1921. Serial No. 500,386. 10 Claims. (Cl. 246—351.)

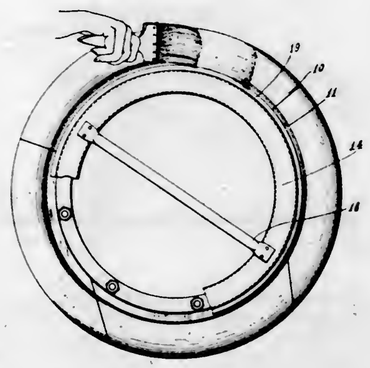
1. In a device of the class described, in combination with a main track and its siding, a pair of switch points adapted to be shifted into either position, means comprising a single throwing block connected to said switch points and arranged adjacent said siding adapted to be depressed by a vehicle moving along said siding, said block being

constructed and arranged to automatically throw said switch points in one direction when depressed by a ve-



hicle approaching from one direction and to automatically throw the switch points reversely when depressed by a vehicle approaching from the opposite direction.

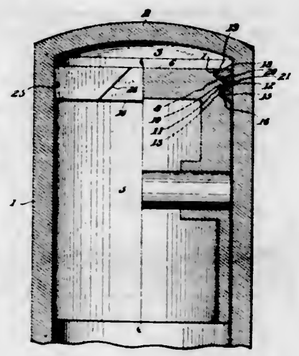
1,424,199. CEMENT SHIELD FOR TIRE CORES. ROBERT J. HUMELBAU, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Aug. 27, 1920. Serial No. 406,336. 5 Claims. (Cl. 91—65.)



1. A cement shield for a tire core, said shield comprising an annular structure adapted to be presented to the side face of the tongue of a tire core to shield the latter and provided with a guiding surface adapted to position it with respect to said tongue.

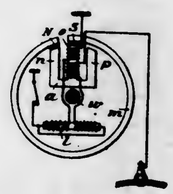
1,424,200. PISTON AND PISTON RING. HARRY B. JOHNSTON, Seattle, Wash. Filed Dec. 5, 1919. Serial No. 342,823. 9 Claims. (Cl. 74—109.)

1. In combination, a piston having a ring groove formed at the intersection of the upper surface and side wall of the piston, an inclined wall in said groove extending outwardly and away from the working face of the piston, a ring mounted in the groove and having an inclined face corresponding to the inclined wall of the piston groove, coacting means between the walls of the groove and ring to hold the ring in the groove, said ring having an outer face exposed to the working pressure of the cylinder and lying wholly substantially in a plane and extending from the edge of the groove to the wall of the cylinder whereby the



action of the pressure on the whole outer surface of the ring will exert a force substantially parallel to the line of travel of the piston.

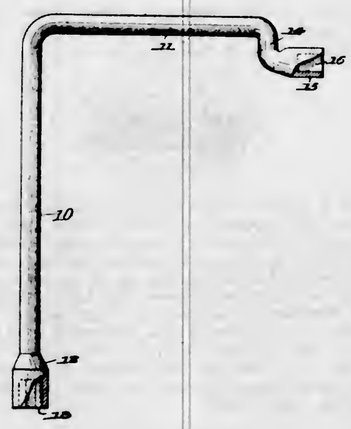
1,424,201. FLYWHEEL MAGNETO. AUGUST KAZENMAIER, Stuttgart, Germany, assignor to the Firm Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Mar. 13, 1920. Serial No. 365,685. 2 Claims. (Cl. 171—209.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A flywheel magneto comprising a shaft, the outer portion of the flywheel constituting the magnet, an armature positioned between the outer portion of said wheel and the shaft and having a primary and secondary winding, an auxiliary coil external to said armature and included within the periphery of said wheel, said coil having a primary and a secondary winding, connections uniting the primary portions and the secondary portions of said windings, respectively, in series, and means uniting said connected primary windings in parallel relation with said connected series windings.

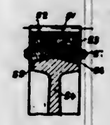
2. A flywheel magneto comprising a shaft, the outer portion of the flywheel constituting the magnet, an armature positioned between the outer portion of said wheel and the shaft and having a primary and secondary winding, an auxiliary coil external to said armature and positioned within the periphery of said wheel in such manner as to be shielded from the lines of force emanating from said magnet, said coil having primary and secondary windings in series, respectively, with the primary and secondary windings of said armature.

1,424,202. WRENCH. LEWIS WILKINS KEITH, Greenville, S. C. Filed July 16, 1921. Serial No. 485,200. 1 Claim. (Cl. 81—121.)



A wrench comprising a U-shaped bar having a long arm and a short arm, the long arm having a socket extending from its free end, and the short arm having a socket extending at right angles from its free end and in a direction away from the longer arm.

1,424,203. GEAR WHEEL. HOLDREICH KELLER, deceased, by Katharina Keller, administratrix, Zurich, Switzerland, assignor to the Firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Filed Nov. 4, 1920. Serial No. 421,780. 5 Claims. (Cl. 74—29.)



1. A composite wheel, in combination, a toothed rim, a metallic ring, a ring consisting of a soft, elastic material inserted between said rim and said metallic ring, said three parts forming one composite ring the parts of which being secured to each other by radially acting shrinkage stresses, and a wheel body onto which said composite ring is pressed.

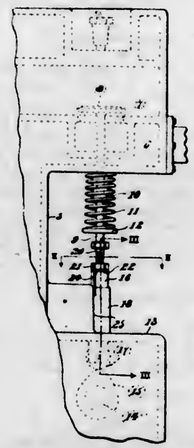
1,424,204. BLASTING CAP. ARTHUR LA MOTTE, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 29, 1920. Serial No. 413,548. 4 Claims. (Cl. 102—9.)

1. As a new article of manufacture, a blasting cap containing a secondary detonating compound and a priming charge at least partly enclosed by a reinforcing cap-sule provided at its upper end with a restricted opening, and a readily ignitible material comprising potassium



nitrate disposed over said opening and having an exposed surface larger than the area of said opening.

1,424,205. VALVE SILENCER. JOHN P. MCCALLUS, Weatherly, Pa. Filed Mar. 31, 1921. Serial No. 457,563. 1 Claim. (Cl. 123—90.)

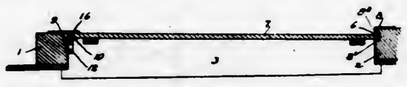


A valve silencing attachment for tappet rods comprising a piece of sheet metal including a plate portion with a central opening for reception of the abutment screw of the tappet rod whereby the device may be rigidly clamped against the upper end of the tappet rod by the jamb nut of said abutment screw, and depending resilient legs carried by said plate portion and disposed to frictionally engage the adjacent vertical face of the engine casing, said legs being of lesser length than said vertical face whereby the entire attachment may bodily move vertically with the tappet rod with only frictional resistance to such movement.

1,424,206. GRAIN DOOR. JOHN MCMURDO, Winnipeg, Manitoba, Canada. Filed Mar. 14, 1921. Serial No. 452,378. 3 Claims. (Cl. 20—30.)

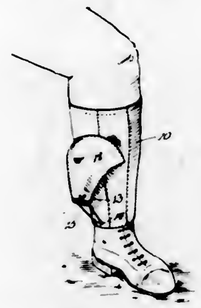
3. In a door fastening, the combination with a door post presenting an abutment engageable with one side of the door, of a wing adapted for engagement with the

opposite side of the door, a vertical pivot rod connecting the wing to the post for swinging and endwise sliding movement, a plate at the lower end of the pivot rod



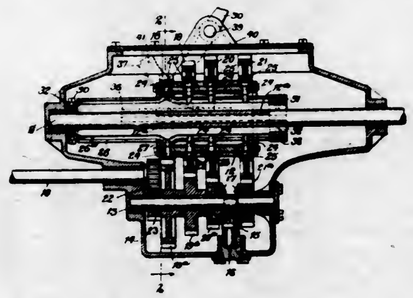
formed with angularly related slots with which the lower end of the wing is adapted to be engaged, whereby the wing may be immovably held either in operative or inoperative position.

1,424,207. LEGGING. WILLIAM P. MANNING, Los Angeles, Calif. Filed Jan. 28, 1921. Serial No. 440,735. 1 Claim. (Cl. 9—21.)



The combination with a legging, of a flap secured at one end to the side of the legging forming a pocket, the flap being tapered toward its opposite end, spaced eyelets carried by the smaller free end of the flap, spaced eyelets carried by the legging, and a lace threaded through all of said eyelets connecting the free end of the flap with the legging and having its ends tied together whereby the effective length of the lace may be varied for varying the movement of the free end of the flap away from the legging.

1,424,208. TRANSMISSION GEAR. LAWRENCE J. MORLEY and ARTHUR V. HAYS, Springfield, Mo. Filed Mar. 17, 1921. Serial No. 453,184. 2 Claims. (Cl. 74—59.)



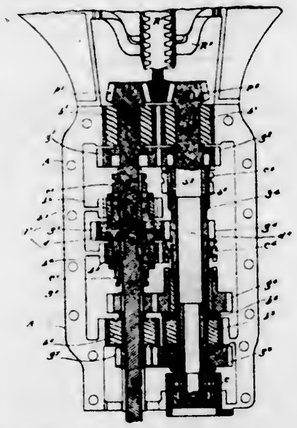
1. A transmission gear including a drive shaft having gear elements varying in size, a driven shaft, ring gears of varying size loose on the driven shaft and in constant mesh respectively with the corresponding gear elements on the drive shaft, pins radially disposed on the driven shaft and normally within the periphery thereof, the inner ends of the pins being bent laterally, and operating bars having grooved sides, the grooves being straight for their major portions and having an outwardly curved portion thereon at a given point, the bent ends of the pins being accommodated in the grooves of the bars.

1,424,209. CLOTH HOLDER. JOSEF PABST, Zurich, Switzerland. Filed Sept. 24, 1920. Serial No. 412,603. 5 Claims. (Cl. 24—243.)



1. In a holder for fabrics for use particularly with stockings, the combination of a rigid base plate and a rigid cover, the said cover in closed position resting over substantially its whole length on the base plate, and the said base plate overlapping one end of the cover thereby bending the fabric lying between the base plate and the cover into S-shape, at least one rigid pressing device fitted on the cover and between the ends thereof, and at least one rigid pressing device mounted on and between the ends of the base plate, both pressing devices when in closed position again bending the fabric interposed between the said devices.

1,424,210. TRANSMISSION-GEAR SYSTEM. WILLIAM FRANKLIN PENROD, Cincinnati, Ohio, assignor to Anthony J. Wissel, trustee. Filed Apr. 15, 1921. Serial No. 461,564. 11 Claims. (Cl. 74—57.)

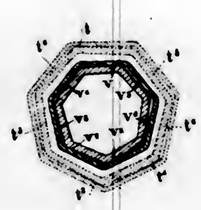


6. In a gear transmission of the character indicated, in combination with a main driving-shaft in two parts independently rotatable in tandem relations, and carried at the zone of their abutting contact within the axial orifice of a spur-gear carried in case bearings; a bearing washer or washers secured at the contiguous shaft-ends and constituting a thrust bearing.

1,424,211. ROTATIONAL DRIVING CONNECTION SUCH AS DETACHABLE WHEEL HUBS. JOHN V. PUGH, Coventry, England, assignor to Rudge-Whitworth Limited, Coventry, Warwick, England, a Company of Great Britain. Filed Jan. 27, 1921. Serial No. 440,534. 10 Claims. Cl. 201—9.)

1. A detachable hub for a vehicle wheel having an outer hub part forced upon an inner hub part by a nut

or other retaining means, in which said hub parts are provided with sets of complementary engaging means comprising regular polygonal surfaces having an odd number of faces, which under the force exerted by the

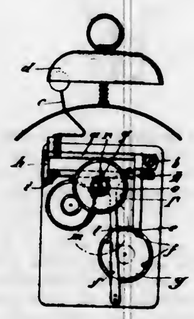


nut or other means are adapted to form a close contact in one rotational plane or zone for driving in one direction and a close contact in another plane or zone for driving in the other direction.

1,424,212. METHOD OF CONTROLLING THE STABILIZER CONTENT OF CELLULOSIC COLLOIDS. GEORGE ROCKER, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 17, 1920. Serial No. 431,396. 10 Claims. (Cl. 52—20.)

2. The method of controlling the stabilizer content of a cellulosic colloid which comprises washing the colloid with a solution containing the stabilizer, and then washing the colloid in a liquid in which the solvent of the stabilizer is miscible and the stabilizer is insoluble.

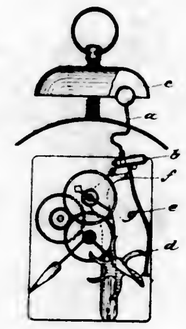
1,424,213. ALARM CLOCK WITH PRECEDING ALARM. OTTO RÖSEKE, Stuttgart, Germany. Filed June 11, 1919. Serial No. 303,493. 18 Claims. (Cl. 58—16.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



15. In an alarm clock, time mechanism; alarm mechanism; preliminary alarm mechanism; and a common controller for directly controlling the two said alarm mechanisms.

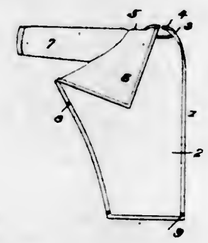
1,424,214. ALARM CLOCK. OTTO RÖSEKE, Stuttgart, Germany. Filed Feb. 13, 1920. Serial No. 358,490. 1 Claim. (Cl. 58—16.)

In an alarm clock, a preliminary alarm mechanism comprising an alarm operating arm, a hammer connected thereto, a head carried by said arm; time works comprising a gear-wheel; and a star wheel geared to said gear wheel and adapted to engage the head carried by



the alarm operating arm to move said arm in preparation to giving an alarm and to subsequently release said arm to cause the alarm to be given.

1,424,215. PROTECTIVE COVERING FOR AUTOMOBILE DRIVERS. MARVIN L. ROWE, Albany, N. Y. Filed July 18, 1921. Serial No. 485,508. 1 Claim. (Cl. 296—81.)

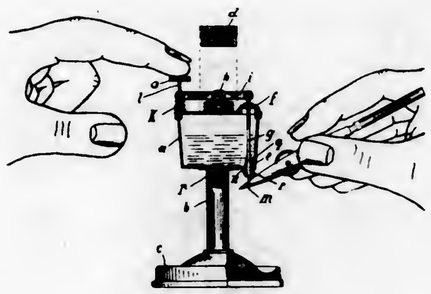


A protector for automobile drivers, including a fabric section having means along one edge whereby said edge may be secured to the side of the vehicle adjacent the driver and having means along one end whereby said end may be secured to the dash of the vehicle in front of the driver, said section having a width to overlie the front of the driver, and a shoulder portion to overlie the shoulder and a portion of the driver's back immediately below the shoulder, said section being provided with a single sleeve member, whereby that portion of the driver's body next to the exposed side of the vehicle and above the upper edge of that side is protected by a protector to remain more or less permanently connected to the vehicle.

1,424,216. INKSTAND. ERNST SALZMANN, Solothurn, Switzerland. Filed Aug. 10, 1920. Serial No. 402,675. 1 Claim. (Cl. 126—57.)

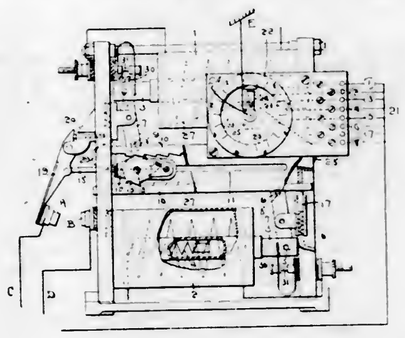
In an inkstand comprising an air tight receptacle having a needle valve outlet operated by a hand lever

the combination with the conical outlet neck *n* of the valve, a valve rod *g* provided with a spherical swelling *r*



and a rubber hose *q* sleeved over said swelling for the purpose set forth and substantially as shown and described.

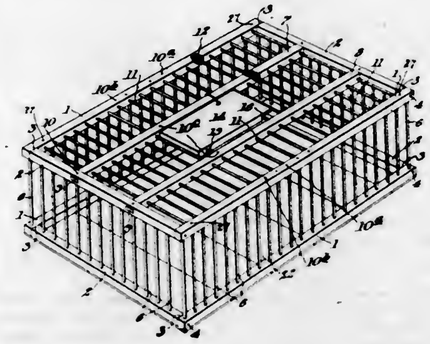
1,424,217. AUTOMATIC BLOCK APPARATUS FOR ELECTRIC TRAMWAYS AND RAILWAYS. DINO SAMAIA, Milan, Italy. Filed Dec. 30, 1919. Serial No. 348,426. 2 Claims. (Cl. 246—78.)



1. In automatic block apparatus for electric tramways and railways, the combination of a blocking solenoid, whereof the core is attracted each time a vehicle enters the block section, a de-blocking solenoid whereof the core is attracted each time a vehicle leaves said block section, a toothed wheel, racks meshing with said toothed wheel, rocking beams acting upon said racks, connections between said cores and said rocking beams, a support carrying said toothed wheel, slidable between said racks, a series of progressively numbered electric lamps, circuits supplying current to said lamps, a distributor controlling the supply circuits of said lamps, and means for energizing said solenoids, whereby each time a vehicle enters or leaves said block section, said support is actuated by the corresponding solenoid core to operate said distributor in such a manner as to light up or extinguish the lamp showing the number of the vehicles in said block section.

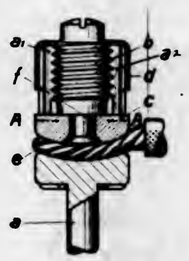
1,424,218. SHIPPING COOP. CHARLES T. SHERMAN, Sr., Goldvein, Va. Filed Sept. 16, 1921. Serial No. 501,114. 5 Claims. (Cl. 217—36.)

1. A shipping coop, having top and bottom frames composed of side and end bars butt-jointed, and connecting dowels socketed in said bars at the corners of the frames and along the sides and ends, the frames and their constituent bars and the dowels being connected by nails or



other fasteners driven through one set of bars into the other set and simultaneously through the corner dowels and the dowels next adjacent thereto.

1,424,219. WIRE-CLAMPING TERMINAL FOR LOW-VOLTAGE INSTALLATIONS. GOTTLIEB STEINER and JACQUES BOHLI, Solothurn, Switzerland, assignors to the Firm Scintilla, Solothurn, Switzerland. Filed July 6, 1921. Serial No. 482,809. 1 Claim. (Cl. 173—259.)

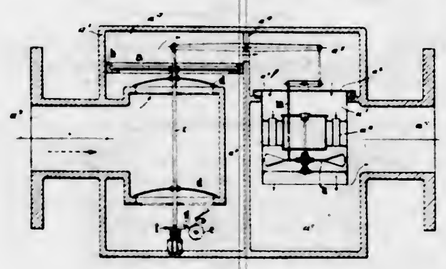


A wire clamping terminal for low voltage installations including a clamp body bifurcated at its outer end, said outer end being also internally screw-threaded, a screw engaging in said screw-threaded outer end, a pin attached to the inner end of said screw, a clamping jaw, slidable up and down in a slot between the bifurcated parts of said clamp body, and loosely attached in a swivellable manner to said pin and a cap whose outer end is perforated to permit access to the outer head of the screw, said cap being bifurcated at its inner part and having its inner edge turned over the clamp body.

1,424,220. GAS AND LIKE METER. FRANKLIN THORP and HARVEY THOMAS THORP, Whitefield, England. Filed June 11, 1918. Serial No. 239,417. 5 Claims. (Cl. 73—37.)

1. In gas and like meters of the type described, the combination with a rotor forming part of the measuring mechanism, of means for automatically cutting off the flow of fluid to the rotor when the rate of flow falls below a predetermined minimum, consisting in part of an element which is sustained by the fluid flowing past the element and to the rotor when the rate of flow

is equal to or above the said minimum, a support onto which said element descends when the rate of flow falls below the said minimum, and means having a control



element on the exterior of the meter for raising the element from said support to permit the resumption of flow of the fluid.

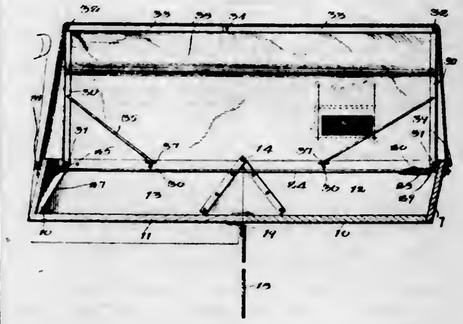
1,424,221. ICE PICK. GEORGE TRUMPETER, Alliance, Ohio. Filed Mar. 8, 1922. Serial No. 542,041. 4 Claims. (Cl. 83—62.)



1. An ice pick of the type described comprising a socketed handle, a tubular member secured therein, a sleeve slidable in said tubular member and extending outwardly of said handle, a pick point slidable in said tubular member and sleeve, a cushioned spring interposed between the inner end of the pick point and handle, and a cushioned spring surrounding the pick point and engaging at its opposite ends, the inner end of the pick point and the outer end of the sleeve.

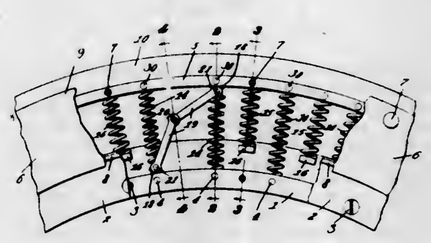
1,424,222. FOLDING TENT BED FOR AUTOMOBILES. EARL TUTTLE, Grand Island, Nebr. Filed Nov. 10, 1921. Serial No. 514,230. 2 Claims. (Cl. 5—72.)

2. A folding tent bed for automobiles, including hinged sections, each having side and end walls, a flexible supporting web within the sections having transverse rails at its opposite ends, inclined supporting members secured to the inner surfaces of the side walls of one section and having series of recesses to adjustably and detachably



receive the ends of one of said cross rails, and means adjustable through the end wall of the other section to hold the other end rail.

1,424,223. TIRE. CHRISTIAN A. WAGNER, Fort Plain, N. Y. Filed Feb. 19, 1921. Serial No. 446,400. 1 Claim. (Cl. 152—38.)

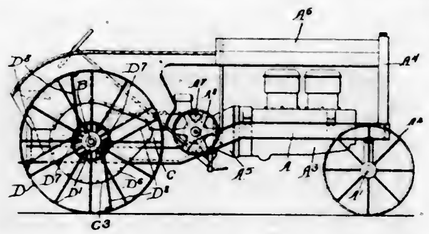


In a device of the class described, an inner ring, an outer ring, side plates carried by the respective rings, and overlapped slidably on each other, securing devices uniting the side plates with the rings, retainers removably mounted in the rings and held against endwise movement by the side plates, two series of coiled compression springs arranged between the rings, those of one series being longer than those of the other and attached at their ends to the respective rings, the shorter compression springs alternating with the longer and extended over and attached to the retainers of one ring and spaced from the other ring whereby the shorter springs operate to assist in supporting the load after a predetermined compression of the longer springs is obtained.

1,424,224. TRACTOR. JOHN C. WESTMONT, Sauk City, Wis., assignor to Wisconsin Farm Tractor Company, Sauk City, Wis., a Corporation of Wisconsin. Filed Jan. 23, 1920. Serial No. 353,509. 20 Claims. (Cl. 180—54.)

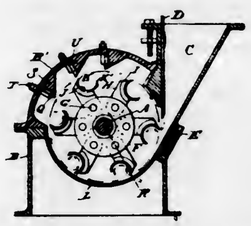
1. In a traction engine, a main frame, a cannon bearing extending thereacross, an axle mounted for rotation within said cannon bearing and extending outwardly on both

sides of the frame and brackets projecting from said cannon bearing and adjustably attached to the frame,



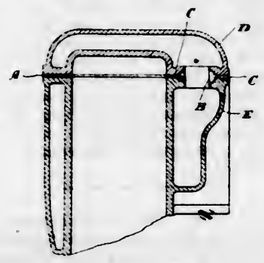
said brackets extending downwardly from the cannon bearing, the frame being suspended thereon below the axle.

1,424,225. COVED PIVOTED HAMMER. MILTON F. WILLIAMS, St. Louis, Mo., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 25, 1922. Serial No. 539,063. 3 Claims. (Cl. 83—11.)



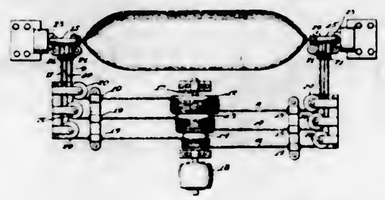
1. A rotary pivoted hammer comprising shanks spaced apart and provided with holes at their inner ends for pivotal mounting, and a cross bar head connecting the outer ends of said shanks and curved concavely towards the front, and a similarly curved plate adjustably mounted on said concave head and having an operative lateral edge located substantially in the radial plane through the shanks and the pivotal axis, and means to adjust said plate laterally on said head and vary the distance of the operative edge from the pivotal axis and also from said radial plane.

1,424,226. INTERNAL-COMBUSTION E.....E. THOMAS DICK WISHART, Heaton Chapel, near Stockport, England, assignor of one-half to Crossley Motors Limited, Gorton, Manchester, England. Filed Sept. 11, 1920. Serial No. 409,541. 1 Claim. (Cl. 123—173.)



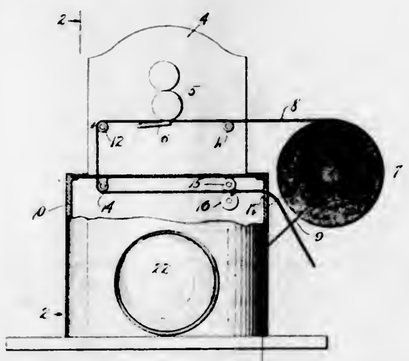
In an internal combustion engine, a cylinder, a detachable head secured to said cylinder, a gasket between said cylinder and head, said cylinder and head castings having openings for the passage of water between the cylinder and head, internally coned seats for a jointing member at said openings, a washer having conical projecting surfaces adapted to fit between said seats to seal the water passage independently of said gasket, and an annular passage to the air for the escape of leakage from the water joint.

1,424,227. BOAT-LAUNCHING APPARATUS. GEORGE WRIGHT, San Francisco, Calif. Filed June 22, 1920. Serial No. 390,935. 4 Claims. (Cl. 9—22.)



1. An apparatus as characterized comprising a plurality of boat handling davits; means disposed between said davits for supporting a group of boats in nested relation; a plurality of cables each attached to one of said boats; and a hoisting mechanism for operating said cables simultaneously at various fixed ratios to raise and lower said boats in groups.

1,424,228. PROJECTOR COMBINED WITH PRINTING MECHANISM OF TICKERS OR OTHER INSTRUMENTS. RICHARD D. WYCKOFF, New York, N. Y. Filed July 24, 1919. Serial No. 312,976. 5 Claims. (Cl. 88—24.)



1. In combination with a ticker or the like, a hollow supporting base therefor, a projecting lens mounted in said hollow base, a reflector in the hollow base and disposed to cast an image into said lens, means for feeding and for supporting a length of the record printed by the ticker in the hollow base in position to be reflected by the reflector and a lamp in the hollow base disposed to illuminate the section of record supported within the hollow base.

1,424,229. LEVEL. CLYDE E. WYCKOFF, Kansas City, Mo., assignor of one-half to John Q. Moffat and one-half to George E. Whitten, both of Kansas City, Mo. Filed Sept. 28, 1920. Serial No. 413,261. 1 Claim. (Cl. 33—215.)

A device of the character described consisting of a stock having an opening therein, a one-piece dial rotatably

arranged in said opening and weighted to maintain the same relative position irrespective of the position in which the stock is placed, scales on the sides of said dial, there being a plurality of equally-spaced sight openings arranged in circles in the opposite sides of the stock



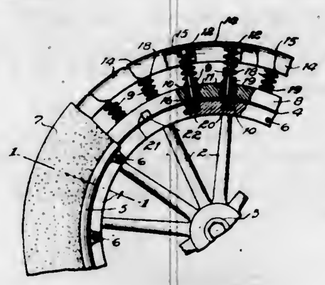
through which the scales may be viewed, and glass plates to close said sight openings, there being a peripheral scale on the dial, and oppositely-disposed sight openings in the stock through which said peripheral scale may be viewed, substantially as described.

1,424,230. MARCEL-WAVE DEVICE. HATTIE ZINN, Columbus, Ohio. Filed Feb. 16, 1922. Serial No. 536,958. 1 Claim. (Cl. 132—33.)



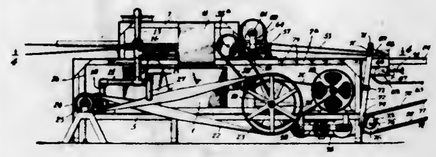
A device of the character described including an elongated stem having a handle at one end, and series of arms outstanding along opposite sides of said stem of which the arms at one side are staggered with respect to those of the opposite side, each of said arms having its axial line nearer to one of an opposed pair of arms than the other.

1,424,231. RESILIENT TIRE. EMIL BAUMANN, St. Louis, Mo. Filed June 7, 1922. Serial No. 566,475. 3 Claims. (Cl. 152—8.)



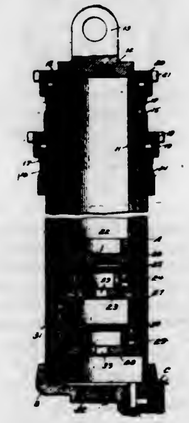
2. A mechanical substitute for the inner-tubes of pneumatic-tires, consisting of a base-ring adapted to be placed within the tire casing before the latter is mounted on the wheel-rim; a series of bearing-nuts, having radial bearings, and threaded into radial nut-openings in said base-ring; a series of plungers mounted to slide in said radial bearings, and project outwardly beyond the outer periphery of said base-ring; means carried by the outer ends of said plungers, for engaging the inner wall of the tire-casing, and supporting the latter; springs resting at their inner ends upon said bearing-nuts, and having their outer ends in engagement with said means for engaging the inner wall of the tire-casing; and means for preventing creeping of said base-ring upon the wheel-rim; whereby all of the parts above mentioned, may be bodily mounted upon and detached from the wheel-rim, by a lateral movement upon the latter.

1,424,232. APPARATUS FOR COATING CAKES, ETC. FREDERICK BEERS, New Rochelle, and HOWARD L. POWELL, New York, N. Y., assignors to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 27, 1920. Serial No. 406,448. 4 Claims. (Cl. 91—3.)



1. In cake coating apparatus, the combination of a conveyor of which coated articles are placed, and having a delivery point, means for continuously progressing trays to be filled beneath said conveyor to a position beneath said point and beyond the same, and means for automatically periodically moving said delivery point slowly a short distance forwards, and then quickly to the rear, as the rear end of a tray passes beneath the same, to position the same above the forward end of a following tray.

1,424,233. PACKING FOR HYDRAULIC JACKS. GEORGE W. BERRY, Erie, Pa. Filed Feb. 23, 1921. Serial No 447,299. 12 Claims. (Cl. 138—9.)

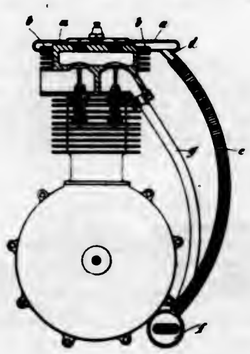


1. The combination with relatively movable parts, packing glands arranged exteriorly and interiorly of said parts, and means for adjusting the interiorly arranged glands from without said parts without separation of the latter.

1,424,234. COOLING DEVICE FOR AIR-COOLED ENGINES. JAMES BOWEN, Swansea, Wales. Filed Oct. 18, 1920. Serial No. 417,820. 2 Claims. (Cl. 123—171.)

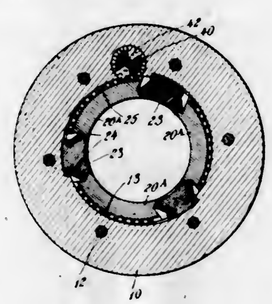
1. A cooling device for air cooled engines, comprising a perforated air chamber adapted to be fitted over the cylin-

der end around the top fin, means consisting of an ejector fitted on the end of the exhaust pipe of the engine, and connected to said air chamber by suitable piping, all in such manner that air is drawn from the air chamber at



each exhaust stroke of the engine and is replaced by fresh air entering through the perforations in said air chamber, and a constant current of cool air is caused to flow over the cylinder end while the engine is working.

1,424,235. CHUCK. WILHELM B. BRONANDER, Montclair, N. J. Filed July 10, 1918. Serial No. 244,226. 2 Claims. (Cl. 279—73.)

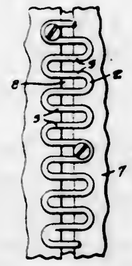


1. A chuck comprising a housing having a plurality of spaced eccentric cam surfaces, an actuating ring rotatively mounted in the housing, said ring being constructed with openings, gear teeth on the periphery of the ring, gripping jaws in said openings movable with the ring and over said cam surfaces, a spur-toothed pinion in mesh with said gear teeth, an actuating spindle for the pinion, means for locking the spindle against rotation, and a lost motion connection between the spindle and the pinion.

1,424,236. MANUFACTURE AND PRODUCTION OF BROMODIETHYLACETYLCARBOXYALKYL - UREA COMPOUNDS. JÜRGEN CALLSEN, Elberfeld, Germany, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne on the Rhine, Germany. Filed Aug. 8, 1921. Serial No. 490,738. 2 Claims. (Cl. 260—125.)

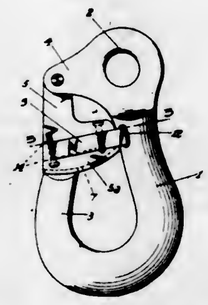
1. The herein described bromodiethylacetyl carboxyalkyl urea compounds being generally crystalline products soluble in the usual organic solvents, soluble with difficulty in water, being split up by treatment with hot caustic soda lye; and being valuable soporifics and sedatives, substantially as described.

1,424,237. GEAR RACK. GORDON F. CANE, Oakland, Calif., assignor to American Automatic Lock and Lift Company, San Francisco, Calif., a Corporation of California. Filed Dec. 4, 1920. Serial No. 428,416. 4 Claims. (Cl. 74—27.)



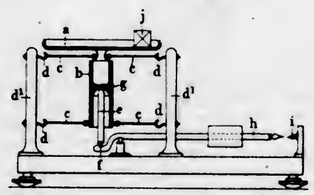
1. In a rack for a gear, a base having a longitudinal opening, a continuous wire bent in substantially plaited convolutions secured to said base and overlying said opening whereby the teeth of said gear may engage in the straight sections of said wire and extend into said opening.

1,424,238. BUTT HOOK. EVA E. COCHRAN, Lodi, Calif. Filed Mar. 28, 1922. Serial No. 547,376. 6 Claims. (Cl. 24—241.)



1. A butt-hook including with a hook member, a closure member for the hook-opening movably mounted to the hook, and a pair of opposed and automatically acting catch members for latching the closure member to the hook in a closed position.

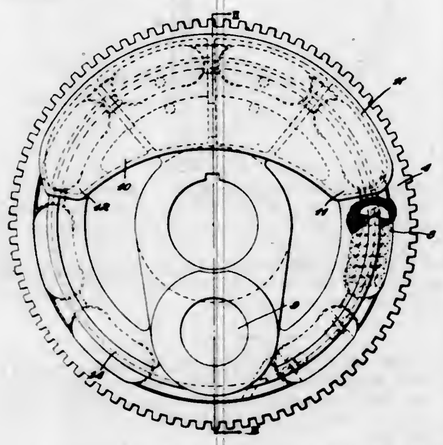
1,424,239. SUSPENSION FOR BALANCE PLATES. JAMES TIBUACE FELIX CONTI, Paris, France, assignor to Société Industrielle d'Instruments de Précision, Paris, France. Filed June 5, 1920. Serial No. 386,772. 1 Claim. (Cl. 265—27.)



In a balance, a balance plate, a suspension device therefor comprising a substantially vertical member extending

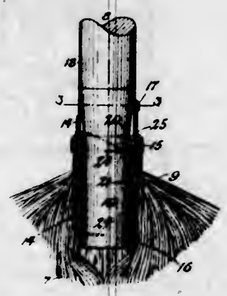
rigidly from the plate, a knife-edge suspension, a second vertical member supporting the first vertical member and thereby the plate on the knife-edge, and a plurality of flexible inextensible filaments stretched horizontally between fixed points of the balance and the first vertical member in such a manner as to permit only very slight vertical movements of the balance plate and to eliminate lateral pressure on the knife-edge.

1,424,240. GEAR WHEEL. GEORGE M. EATON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 6, 1921. Serial No. 435,323. 9 Claims. (Cl. 74—20.)



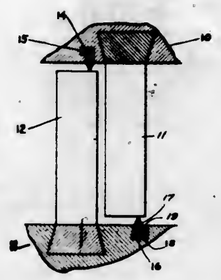
1. In combination, in a gear wheel, a gear rim having inwardly extending lugs, a gear center having outwardly extending lugs, resilient elements interposed between the lugs of the gear rim and those of the gear center, and a counter-balance integral with the gear center and extending radially beyond the resilient elements, the counterbalance being of a form which permits the passage of the gear rim thereover.

1,424,241. BROOM. JOHN EDWARD ELDRIDGE, Buffalo, N. Y. Filed Feb. 8, 1919. Serial No. 275,715. 1 Claim. (Cl. 306—30.)



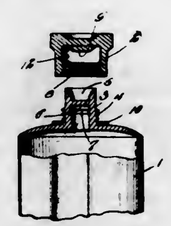
A broom and handle connection comprising an outer screw threaded ferrule connected to the broom, an inner screw threaded ferrule connected to the handle engaging with the inner side of said outer ferrule, and a handle having a reduced unthreaded lower part which engages with the inner ferrule and an enlarged upper part which engages with said outer ferrule, said reduced and enlarged parts being integral and both removable from said broom.

1,424,242. BLADING. WARREN B. FLANDERS, Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 4, 1920. Serial No. 408,184. 5 Claims. (Cl. 253—77.)



1. In an elastic-fluid turbine, the combination of rotor blades, a stator, renewable wearing strips secured to the stator in line with said rows and having sharp edges adjacent to the blade tips and substantially opposite the centers of the throats of the nozzles formed between adjacent blades.

1,424,243. DISPENSING TUBE AND CLOSURE THEREFOR, AND METHOD OF JOINING SAME. FREDERICK L. FOX, Washington, D. C. Filed Oct. 20, 1920. Serial No. 418,153. 16 Claims. (Cl. 221—60.)

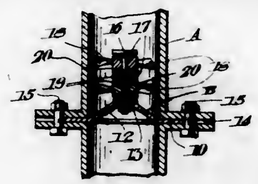


1. The combination with an exteriorly threaded spout, of a closure, interiorly threaded near its open end and screwed on the spout and provided with a recessed side wall beyond the threaded portion and also provided with means to displace a portion of the spot and thereby effect attachment of the closure to the spout incident to the initial threaded connection of the closure to and on the spout.

1,424,244. ROTARY FUEL MIXER. FRANK FUNKE, Almonte, Ontario, Canada, assignor to The Canadian Vaporizer Company, Limited, Toronto, Ontario, Canada, a Corporation of Canada. Filed Aug. 20, 1921. Serial No. 493,965. 1 Claim. (Cl. 48—180.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

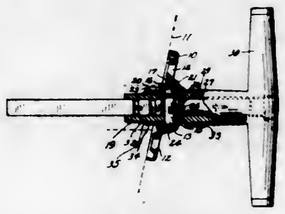
A fuel vaporizer of the character described comprising a plate having a central opening with a pair of radial arms therein terminating in a centre piece, the edges of the plate being formed with U-shaped recess designed to be engaged by bolts passing through the flanges of the pipes forming the intake manifold on an automobile engine, a screw-threaded spindle extending through the centre piece and having a plurality of spaced annular flanges thereon, a nut on the spindle bearing against the

centre piece and designed to support the spindle in position above the same, a plurality of fans arranged between



the flanges, the hubs of the fans being recessed on the upper and lower walls to form ball races, and balls located in the said races.

1,424,245. LOCKING HANDLE. LOUIS W. GATES, New Haven, Conn., assignor to C. Cowles & Company, New Haven, Conn., a Corporation of Connecticut. Filed Dec. 27, 1921. Serial No. 524,822. 10 Claims. (Cl. 70—91.)



1. In combination, an escutcheon having an opening therethrough, a bearing mounted in said opening for angular adjustment relative to said escutcheon, means for preventing rotation of the bearing in the escutcheon, a lock spindle mounted to turn in said bearing, and means for locking the spindle to said bearing.

1,424,246. SAFETY-RAZOR HONE. WILLIAM F. GROGAN, Scranton, Pa. Filed Oct. 15, 1919. Serial No. 330,784. 1 Claim. (Cl. 51—214.)



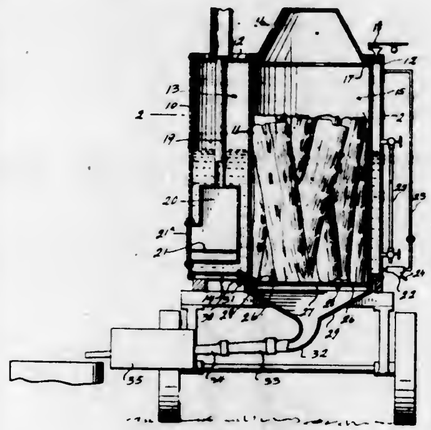
The combination with a holder comprising a cylinder, of a pair of semi-cylindrical abrasive members fitted therein and projecting therefrom at one end, the outer end portions of said members being beveled on their inner faces to define an acute angle between them.

1,424,247. CUSPIDOR. JOHN HAYES, Belle Vernon, Pa. Filed Jan. 23, 1922. Serial No. 531,261. 5 Claims. (Cl. 4—39.)

1. A cuspidor comprising, in combination, a base, an upstanding member carried by the base to provide a handle for transporting the cuspidor, a bowl supported by the base for swinging movement, a cover member for the bowl, and means for yieldingly supporting the cover member by the upstanding member, said means constantly urging the cover member toward the bowl when the bowl is underlying the cover member.

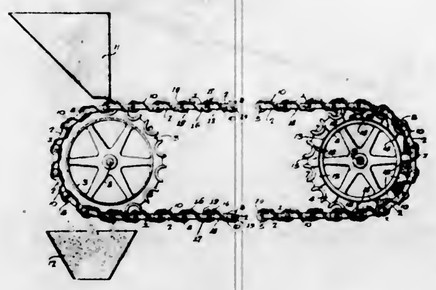


1,424,248. MEANS FOR EXTRACTING CRUDE SPIRITS AND ROSIN FROM YELLOW AND GREEN PINE STUMPS. JERRY M. JOHNSON, Crestview, Fla. Filed Jan. 10, 1921. Serial No. 436,202. 3 Claims. (Cl. 203—6.)



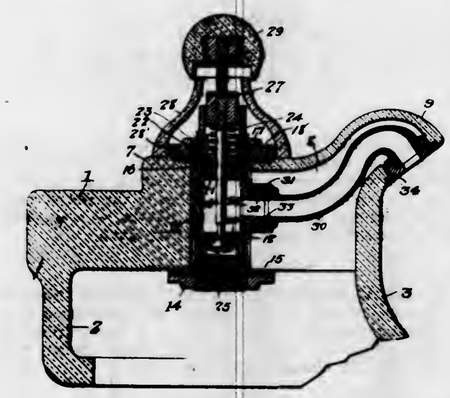
2. An extractor for sweating crude turpentine from wood comprising a body having an outer and inner wall to provide a steam and water space entirely surrounding the inner wall, the inner wall enclosing a retort chamber, a fire box forming part of the body and partially enclosed by the water space and having a flue extending upward through the water space, a removable cover for the retort chamber, means within the retort chamber for supporting wood therein but permitting the drainage of the extracted turpentine, and a bottom for the retort chamber having a fluid duct leading therefrom.

1,424,249. TRANSFER DRUMS FOR CONVEYERS. HOWARD E. KANTNER, Glenside, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 24, 1920. Serial No. 405,593. 4 Claims. (Cl. 198—140.)



1. The combination of an endless chain conveyer arranged to carry material on the upper and on the lower run; sprocket wheels around which the conveyer passes; and a transfer drum at the sprocket wheels for receiving the material from the upper run of the conveyer and transferring said material onto the lower run of the conveyer.

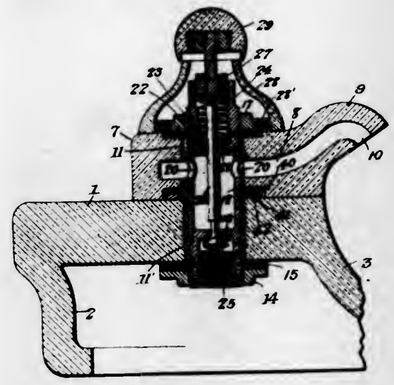
1,424,250. LAVATORY. JOHN F. KELLY, Trenton, N. J., assignor to Thomas Maddock's Sons Co., Trenton, N. J., a Corporation of New Jersey. Filed Mar. 29, 1922. Serial No. 547,705. 4 Claims. (Cl. 4—24.)



1. A drinking water supply for lavatories comprising a chamber within the slab including a spout-like extension having an outlet opening overhanging the bowl, a valve mounted in the chamber, and a discharge pipe connected to the valve casing extending through the chamber and extension and attached at its outer end within said outlet opening.

1,424,251. FAUCET ATTACHMENT FOR LAVATORIES. JOHN F. KELLY, Trenton, N. J., assignor to Thomas Maddock's Sons Co., Trenton, N. J., a Corporation of New Jersey. Filed Mar. 29, 1922. Serial No. 547,706. 1 Claim. (Cl. 251—156.)

An article of manufacture comprising a block of earthenware having substantially flat, parallel top and bottom faces, an arcuate extension at one end and above the plane of the top, a passageway through the block and



said arcuate extension, the arcuate extension constituting a curved spout overhanging one end of the block, and a vertical opening to receive a valve casing.

1,424,252. MULTIPLE-RIM RESILIENT WHEEL. HENRY MCDERMOTT, Leadville, Colo. Filed July 1, 1921. Serial No. 481,861. 3 Claims. (Cl. 301—5.)

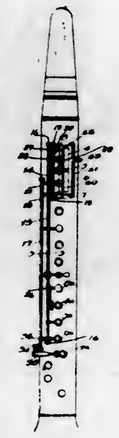


1. A wheel having a hub, a plurality of spokes carried by the hub, certain of said spokes being relatively short and being positioned 90° apart, a rim connecting the spokes at their outer ends and formed at the points of its junction with the relatively short spokes to provide substantially semi-cylindrical bearing members, a crank for each bearing member, each crank comprising an axle journalled in the bearing member and formed with relatively offset crank disks projecting from opposite faces thereof, a bearing cap for each bearing member, an annular rim member carried by the crank disks projecting laterally of one side of the first named rim, and a similar annular rim member carried by the crank disks projecting laterally of the opposite side of the first named rim.

1,424,253. CLARINET. JAMES DEAN MACKEY, Columbia, S. C. Filed May 25, 1921. Serial No. 472,405. 3 Claims. (Cl. 84—382.)

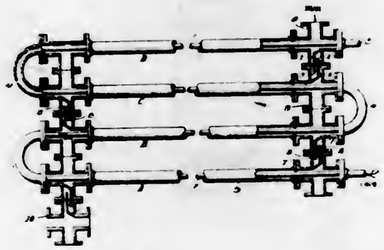
1. A clarinet comprising means for obtaining the tones of the lower register, means operable by the last means

for obtaining the tones of the middle register, and manually operable means for controlling the last mentioned



means to render such means inactive or active by the first means.

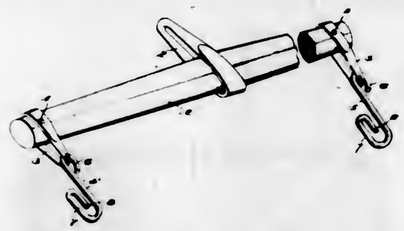
1,424,254. EVAPORATOR. RALPH MELLOR, Philadelphia, Pa., assignor to Kestner Evaporator Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 9, 1920. Serial No. 402,374. 5 Claims. (Cl. 257—247.)



1. In a countercurrent horizontal evaporator, a vertical series of horizontal liquor tubes each provided with a heating jacket, said heating jackets being arranged for flow of heating vapor therethrough in series between an inlet for vapor on the uppermost jacket and an outlet for vapor and condensate on the lowermost jacket, said jackets including trapped by-pass connections intercepting condensate at intervals and directing it towards said outlet.

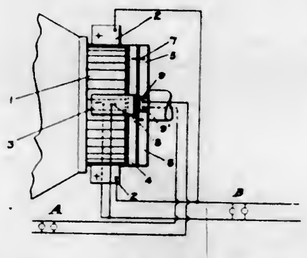
1,424,255. SINGLETREE. JOHN MICHEAL MOORE, Laurel, Miss. Filed June 9, 1920. Serial No. 387,770. 1 Claim. (Cl. 278—112.)

A single tree hook formed from a single length of round metal having a bend intermediate its ends to define a shank and an elongated bill arranged parallel to and in spaced relation to the shank, the terminal portion of said elongated bill being formed with a bend disposing the said terminal portion between and in spaced parallel relation to said shank and said elongated bill, whereby the said terminal portion is guarded, said guarded terminal portion being adjacent the first named bend to constitute a retaining means for a tug, one end portion



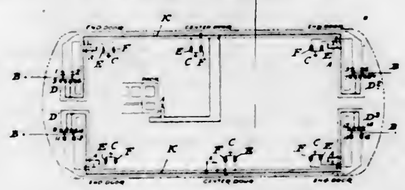
of said length of round metal being formed with an attaching eye disposed at right angles to the plane of said bill, the said guarded terminal portion, said bill and said shank being in the same plane.

1,424,256. ELECTRIC-CURRENT-CHANGING MEANS. CLYDE J. MYERS, Indianapolis, Ind., assignor to Swartz Electric Company, Indianapolis, Ind., a Corporation of Indiana. Filed Apr. 4, 1918. Serial No. 226,642. 5 Claims. (Cl. 175—364.)



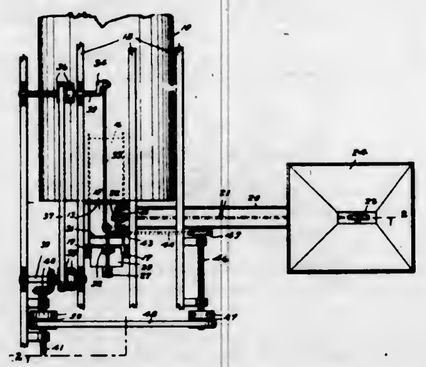
1. In combination, an armature, a continuous ring and a segmental ring on the armature shaft, a commutator for the armature having a brush contacting with the first ring and connections from a segment of the second ring to the first ring and from another segment to a segment of the commutator, substantially as set forth.

1,424,257. DOOR-ENGINE CONTROL CIRCUITS. GEORGE OAKLEY, Albany, N. Y., assignor to Consolidated Car Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed Aug. 28, 1919. Serial No. 320,387. 10 Claims. (Cl. 105—341.)



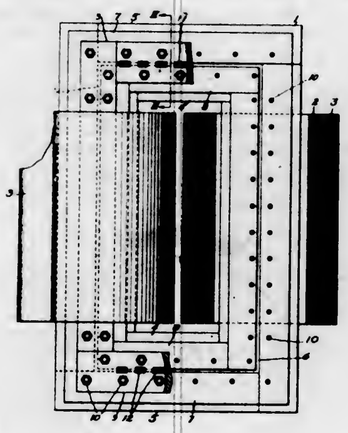
1. In a door operating system the combination with a door of a door closing circuit including a magnet, a switch for initiating the closing action of the door when the latter is open, and a supplemental circuit controlled by the door for energizing the same magnet while the door is closed.

1,424,258. FUEL-FEEDING APPARATUS. ELLIOTT M. OKINS, Auburn, Wash. Filed Nov. 18, 1920. Serial 424,839. 2 Claims. (Cl. 105—341.)



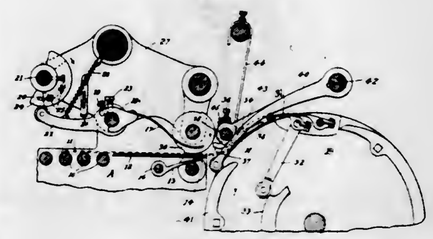
1. Apparatus for feeding fuel into a fire-box comprising a chute of channel-shaped cross-section arranged so that one end thereof projects into said fire-box, spaced guide members extending lengthwise of said chute about midway between the top and bottom thereof, a transverse partition plate extending cross-wise between the two sides of said chute above said guide members, a pusher member guided by said guide members and having a downturned forward end and means for reciprocating said pusher member.

1,424,259. COOLING SYSTEM. JOHN F. PETERS, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,281. 3 Claims. (Cl. 175—356.)



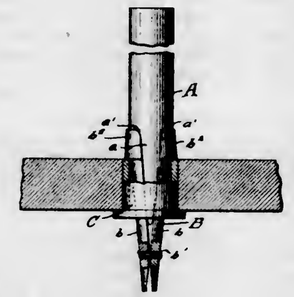
1. A transformer core comprising a plurality of elements disposed one within the other and in spaced relation, and side members secured to said elements and spanning the space therebetween to form a continuous passage in said core, said side members having apertures therefor adapted to communicate with said passage.

1,424,260. RELEASABLE FINGERS FOR OFFSET PRESSES. FRANK F. RICHARDS, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Apr. 1, 1921. Serial No. 457,635. 9 Claims. (Cl. 271—53.)



1. The combination of an offset press adapted to print different colors unto sheets from cylinders having a feeding table including a series of guide fingers associated with the stops on said feeding table and a series of guide fingers associated with the impression cylinder and means for automatically releasing said guide fingers out of the path of the sheets passing through said press to prevent streaking the printed side of the same.

1,424,261. BUSHING REMOVER. JOHN L. RUDOLPH, Delano, Minn. Filed Feb. 26, 1921. Serial No. 447,985. 1 Claim. (Cl. 29—88.2.)

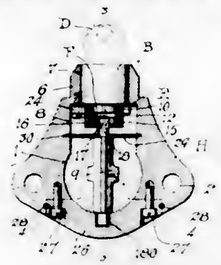


A bushing remover comprising opposed rockable members having semi-circular bearings for the interior walls of a bushing; shoulders semi-circular in cross-section formed on said rockable members; a drive shank having a tongue adapted to spread and hold said shoulders in engagement with the end of the bushing and said bearings in engagement with the adjacent inner walls thereof.

1,424,262. AUTOMOBILE LOCK. CHARLES H. RUST, Newark, N. J. Filed Apr. 13, 1921. Serial No. 461,170. 5 Claims. (Cl. 251—6.)

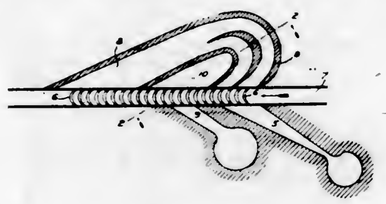
2. An actuating and locking mechanism of the character described including a casing having an opening therein, a lock mounted in said opening and having a rotatable part adapted to be connected to a member to be

rotated, a plate rigidly mounted axially of said rotatable part and having a seat on the edge thereof, and spring



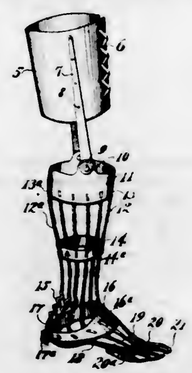
means mounted on said casing and adapted to engage said plate to hold the said rotatable part against rotation.

1,424,263. TURBINE. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed June 13, 1918. Serial No. 239,810. 6 Claims. (Cl. 253—66.)



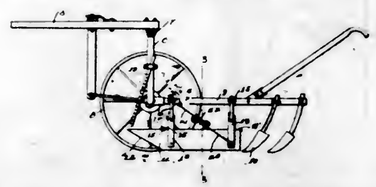
1. In a turbine, the combination, with a single row of moving impulse blades and means cooperating therewith whereby velocity energy of motive fluid is successively abstracted in two steps at separated peripheral portions of the turbine, of auxiliary means for impinging high velocity motive fluid against the blades between said separated portions for energy abstraction in a single step.

1,424,264. ARTIFICIAL LIMB. GEORGE HAMILTON SHRODES, Porterville, Calif. Filed Dec. 28, 1921. Serial No. 525,500. 3 Claims. (Cl. 3—7.)



1. An artificial limb consisting of conventional upper construction and in combination therewith a plurality of wires forming the lower limb construction and foot, and a plurality of bands surrounding said wires and attached thereto in a manner to maintain a predetermined shape, all substantially as set forth.

1,424,265. BOLL-WEEVIL CATCHER. WILLIAM STANALAN, Garrison, Tex. Filed Oct. 19, 1920. Serial No. 417,963. 1 Claim. (Cl. 43—133.)



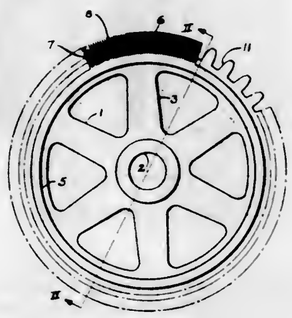
In combination with a cultivator and the beams thereof, containers adjustably supported on the beams, each container having an open portion, a flanged bar having openings, a plurality of bars having one of their respective ends disposed in the openings, a second bar having connection with the opposite ends of the bars, and said second bar being recessed to be fitted over the upper edge of one end of the container for securing the bars to the container.

1,424,266. KNIFE-BLADE SWITCH. ALEXANDER H. TRUMBULL, Stratford, Conn., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 11, 1919. Serial No. 303,367. 22 Claims. (Cl. 200—162.)



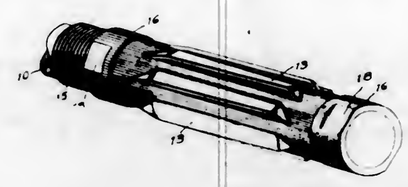
5. In a knife blade switch, an insulating sleeve, a shaft mounted to turn therein, a switch blade mounted to turn about said sleeve, and means for operatively connecting said shaft with and insulating the same from said blade.

1,424,267. MOLDED GEAR. FRANK H. TUPPER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 7, 1922. Serial No. 527,557. 12 Claims. (Cl. 74—28.)



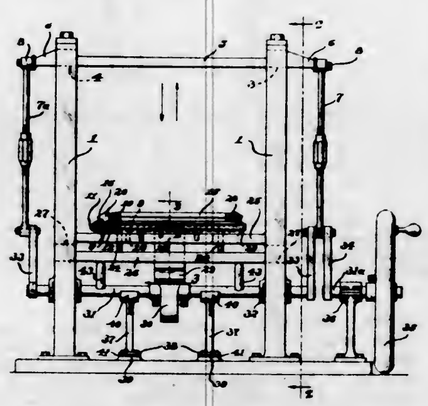
12. A composite gear comprising a metal center and a non-metallic working body portion of fibrous sheet material and a binder, said sheet material consisting of an elongated strip having its sides notched to form a dovetail shape by folding along the successive notches disposed around said metal center so that the laminations will be radial with respect to the center.

1,424,268. REAMER. ANTON M. VEDOE, Quincy, Mass. Filed Jan. 3, 1921. Serial No. 434,469. 9 Claims. (Cl. 77—76.)



1. A reamer comprising, in combination, a reamer body, a sleeve surrounding the body and formed of a sheet metal blank having portions struck-up transversely of the blank to form reamer cutting blades, the blank being bent lengthwise to convert it into a sleeve, and means for securing the sleeve upon the reamer body.

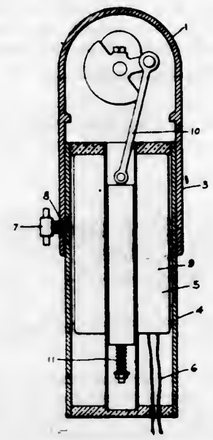
1,424,269. MACHINE FOR AFFIXING MATERIAL TO AND EMBELLISHING BOOK COVERS. MAX W. VOIGTMAN, St. Louis, Mo. Filed Sept. 23, 1920. Serial No. 412,300. 2 Claims. (Cl. 11—2.)



1. A machine of the character described comprising a bed adapted to support a book-cover, a plate beneath said bed having an upturned flange surrounding said bed, members hingedly connected with said flange, a frame enclosing said flange, means for lifting said frame against said members to position the latter against said cover, and mechanism for raising said bed subsequent to the operation of said means to position said members against said frame.

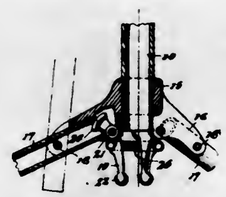
1,424,270. ADJUSTING DEVICE FOR THROTTLE GOVERNORS. OMER B. WHISENAND, Indianapolis, Ind., assignor to Swartz Electric Company, Indianapolis, Ind., a Corporation of Indiana. Filed Nov. 26, 1919. Serial No. 340,931. 4 Claims. (Cl. 137—140.)

1. A throttle governor comprising a casing, throttle governing means including a plunger connected to said casing and to the throttle valve of an engine, a second casing slidably mounted in parts of the first casing, a solenoid mounted in the second casing, and means for



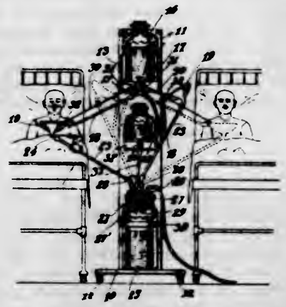
adjusting said second casing for regulating the position of said solenoid relatively to said plunger.

1,424,271. COLLAPSIBLE STAND. ROBERT D. H. ANDERSON, New York, N. Y. Filed Jan. 25, 1921, Serial No. 439,732. Renewed Dec. 21, 1921. Serial No. 524,012. 5 Claims. (Cl. 248—41.)



1. A device of the character described comprising a standard, legs pivoted thereto at points spaced from the inner ends of the legs, said inner ends being socketed, and spring held dogs mounted on the standard and adapted to enter the sockets to hold the legs against movement.

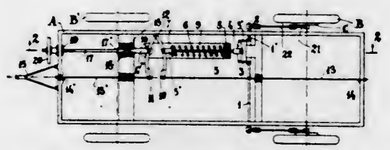
1,424,272. FLUSHING CUSPIDOR. ROY HORACE ASKENY, Morgantown, W. Va. Filed May 27, 1921. Serial No. 473,138. 4 Claims. (Cl. 4—40.)



1. A device of the class described comprising a support, a container for flushing fluid on said support, a cuspidor

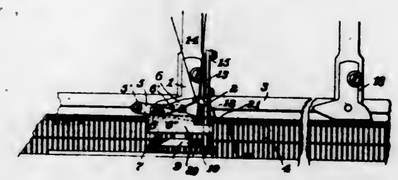
movable independently toward and away from the support, means for conducting fluid from said container to the cuspidor to flush the latter, a drain pipe for the cuspidor, a receiving chamber into which said drain pipe empties a disinfectant tank on said support, and means for supplying a disinfectant from said tank to said chamber.

1,424,273. TRAILER BRAKE. ACHILLE ARATO, Turin, Italy, assignor to Ferruccio Botta, Turin, Italy. Filed Apr. 27, 1921. Serial No. 465,014. 6 Claims. (Cl. 188—3.)



2. A brake gear for trailers comprising means for actuating the brakes, a support mounted on the trailer frame, a rod connected with the said brake actuating means and freely engaged in said support, a spring in said support acting on said rod to hold said brakes applied, an arm pivoted at an intermediate point in said support, a second arm engaging said rod at an intermediate point of the same arm and having one end pivoted to the first named arm, members each connected with the free end of one of said arms and adapted to be connected with a tractor part, each of said connecting members and associate arms cooperating to hold said brakes released as long as a pull acts on said connecting means.

1,424,274. KNITTING MACHINE. HERBERT T. BALLARD, Norristown, Pa. Filed Feb. 7, 1920. Serial No. 356,808. 6 Claims. (Cl. 66—12.)



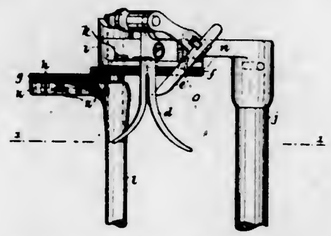
1. In combination with a main yarn guide eye of a knitting machine, repeatedly shifting supplemental guide means for two yarns to shift the yarns in respect to the main yarn guide eye, one shift varying in respect to the other to vary the feeding conditions, one yarn appearing on the surface at one shift at predetermined points to make a substantially straight edge change in the pattern and the other yarn at the other shift appearing on the surface of the fabric at indeterminate points to make an irregular edge to the pattern and means for repeatedly shifting the yarn guides during the knitting of each of a plurality of courses, substantially as described.

1,424,275. SCREW DRIVER. CLARENCE A. BATES and EDWIN FULTS, Canastota, N. Y. Filed May 23, 1921. Serial No. 472,018. 1 Claim. (Cl. 145—50.)

A screw driver including a handle having a shank provided at its outer end with a reduced ear, a member having an opening therein receiving the ear and being pivotally connected to the ear, said member having a reduced extension on the outer face thereof projecting in one direction from the opening therein, and having a sharpened end to provide a blade, said member at the end thereof opposite the blade being formed with a central extension arranged right angularly with respect to the first mentioned extension and also terminating in a blade, and a spring secured to the shank and having a bifurcated end designed to contact with the body of the member when the member is swung to bring the first mentioned blade over the shank and the second mentioned blade in longitudinal alignment with the shank, and to also contact with the shoulders provided between the member and the second mentioned blade when the member is swung right angularly with respect to the shank.



1,424,276. WARP TWISTING-IN MACHINE. JOHN H. BECKER, Brooklyn, N. Y., assignor to Warp Twisting-In Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 24, 1920. Serial No. 426,124. 2 Claims. (Cl. 289—1.)



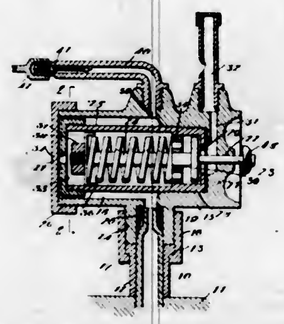
1. A thread twisting means, including twisting members one of which is movable against and in wiping contact with the other, one of said members including a supporting device and a rocking pad carried by said device and affording the working face of said member and having a bearing, said device having a fulcrum for said bearing opposing greater resistance at said bearing to displacement of the pad from the other member than is opposed to such displacement elsewhere in the area of the pad.

1,424,277. NUT LOCK. THEODORE H. BROWN, Minneapolis, Minn., assignor, by direct and mesne assignments, of one-third to Charles E. Ovenshire, one-third to John C. MacDonald, and one-third to Edward C. Ovenshire, all of Minneapolis, Minn. Filed June 23, 1921. Serial No. 479,788. 1 Claim. (Cl. 151—29.)



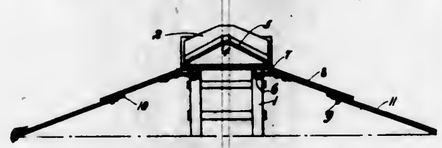
A nut lock comprising a cap and a two-part nut within said cap, said cap having walls that converge toward its open side and operate to press the nut sections against the threaded end of a bolt to which they are applied, the convergence of the wall of said cap being such that the nut sections will not accidentally fall out of the cap when removed from the bolt.

1,424,278. LOW-PRESSURE ALARM FOR PNEUMATIC TIRES. WALTER HENRY BROWN, Pasadena, Calif. Filed Oct. 25, 1919. Serial No. 333,163. 1 Claim. (Cl. 116—34.)



A low pressure alarm comprising a casing attachable to a source of pressure, an alarm member carried by the casing, a pair of valve members, a stem on which the valve members are carried, said casing having a pair of valve seats located at spaced points for the reception of said valve members, each controlling communication between the source of pressure and the said alarm member and toward one of which the respective valve member is shiftable when the other valve member is moved away from its seat, and a spring for shifting the valve stem to simultaneously move said valves, a pressure supply connection leading to the said casing, and means to close one of said valves against the tension of said spring, including an extension carried by the valve stem and projecting exteriorly of the casing, as described.

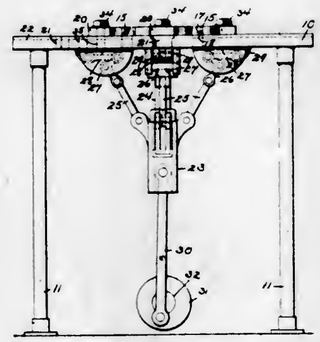
1,424,279. CAR-LOADING APPARATUS. DELONA L. CALAHAN, Fairfax, Wash. Filed Apr. 7, 1921. Serial No. 459,217. 3 Claims. (Cl. 193—29.)



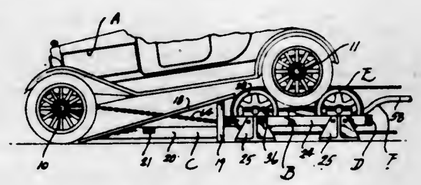
1. Loading apparatus of the class described including a table having its top inclined downwardly toward the sides thereof and from an intermediate point to form a ridge inclined downwardly and forwardly, and upstanding means at the back of the table constituting an abutment for articles directed onto the table.

1,424,280. MACHINE FOR ALIGNING THE FLANGES OF TRAYLIKE ARTICLES. GEORGE W. CASE and JOHN WM. ROBERTS, Passaic, N. J. Filed Feb. 18, 1920. Serial No. 359,614. 2 Claims. (Cl. 93—36.)

1. A machine of the kind described comprising a table portion for supporting a flanged tray-like article, dies adapted to move substantially perpendicular to the edges of the article and constructed so as to bend said flanges inward between the corners of the article, said dies being constructed to bend said flanges more acutely closely adjacent to the base of the flanges.



1,424,281. POWER ATTACHMENT FOR AUTOMOBILES. THOMAS J. CHARON, Park River, N. Dak. Filed Sept. 20, 1921. Serial No. 501,992. 6 Claims. (Cl. 74—106.)



3. In a device of the class described, the combination of a frame, a shaft, means hingedly connecting said shaft on said frame, said shaft being rotatable with respect to said means, and a lever oscillatively mounted in said frame for oscillating said shaft.

1,424,282. VEHICLE-WINDOW DEVICE. HENRY CLAUSEN, San Francisco, Calif. Filed Sept. 28, 1921. Serial No. 503,814. 2 Claims. (Cl. 292—256.)



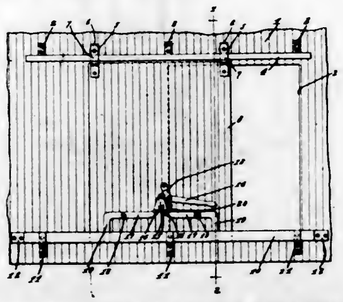
1. As an article of manufacture, a clamping device for a pair of windows comprising a body portion and a pair of angle clips, one adapted to clamp one and the other adapted to clamp the other of said windows, tracking means on said plate by which said clips are constrained to move parallel to each other and at right angles to said windows, a lower member pivoted at its center to said body plate and at each end pivoted to one of said angle clips, a screw

1,424,291. COMBINATION BROOM. DAVID WALTER FRANK, Bethlehem, Pa. Filed Jan. 29, 1920. Serial No. 354,997. 6 Claims. (Cl. 7—1.)



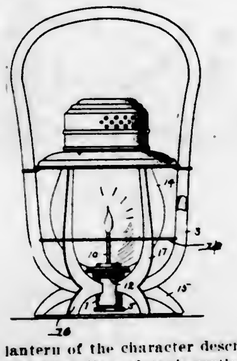
6. A device of the character described including a head, a handle therefor, a shovel pivotally connected to said head, a lever on said handle and a lift-bar pivoted at one end to the shovel and at the other end to said lever.

1,424,292. FREIGHT-CAR DOOR. LEON FRANKLIN, Evansville, Wis. Filed Apr. 27, 1921. Serial No. 464,966. 1 Claim. (Cl. 292—342.)



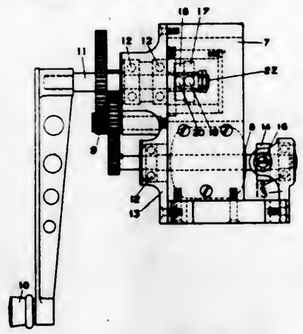
The combination with a car structure and a rail parallel therewith and spaced therefrom, the inner face of the rail being inclined downwardly and inwardly towards the car structure, of a sliding door supported between the rail and car structure, oppositely extending levers fulcrumed on the door, wedging members carried by and integral with the levers and normally projecting between the door and rail, an actuating lever supported by the door, link connections between said actuating lever and the oppositely extending levers, and a spring connected to one of the levers for holding the wedging members projected into frictional engagement with the rail and door.

1,424,293. LANTERN. JOHN C. FROSTEAD, Duluth, Minn. Filed Dec. 9, 1921. Serial No. 521,082. 3 Claims. (Cl. 240—38.)



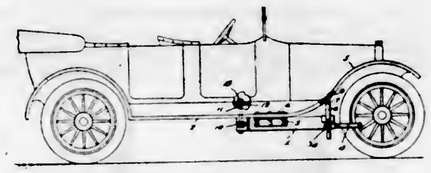
1. A signal lantern of the character described including a tubular combined handle and tank vertically surrounding the lantern.

1,424,294. SIGNALING UNIT FOR WIRELESS TELEGRAPHY. SYDNEY GEORGE FROST, Twickenham, England. Filed May 11, 1922. Serial No. 560,007. 5 Claims. (Cl. 250—17.)



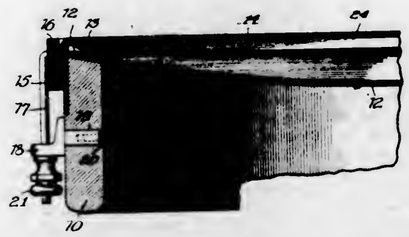
1. A signaling unit for wireless telegraphy or the like comprising in combination an electric generator, a rotor therein, means for rotating the rotor, connections for associating the rotor in a transmitting circuit, and means mechanically controlled by said first means and operating in conjunction with the rotor in said connections for transmitting telegraphic signals.

1,424,295. LOCK FOR MOTOR VEHICLES. DAVID GAGIN, Boston, Mass., assignor of one-fifth to Thomas J. Duggan, Boston, Mass., and one-fifth to James A. Alcardi, Jr., Dorchester, Mass. Filed May 28, 1921. Serial No. 473,224. 4 Claims. (Cl. 188—31.)



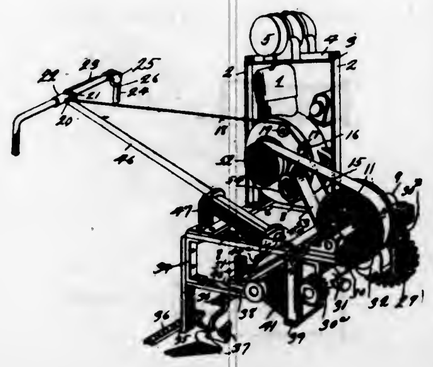
1. A lock of the class described comprising a member, means for connecting said member with a part of the vehicle, a yoke member for engaging a wheel of the vehicle and means for locking said yoke member to the first mentioned member.

1,424,296. BANJO. PAUL GARDIE, Chicago, Ill. Filed Apr. 21, 1921. Serial No. 463,379. 4 Claims. (Cl. 84—270.)



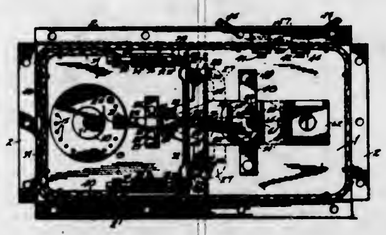
1. A banjo comprising a frame having an annular rim, a head stretched over said frame, an opening in said head, and a bowl supported between said head and rim and completely closing the space within said rim.

1,424,297. POWER CULTIVATOR. EDWIN W. GETZ, Loudonville, Ohio. Filed June 14, 1921. Serial No. 477,481. 8 Claims. (Cl. 180—19.)



1. A cultivator comprising a frame, brackets pivoted to said frame and movable in a horizontal plane, said brackets extending rearwardly and having their rear ends connected together, traction wheels pivoted on said brackets adjacent their rear ends, internal gearing carried by the traction wheels, a source of power carried by the frame, gear connections between the driving wheels and the source of power, said gear connections being located forwardly of the pivotal points of the rearwardly extending wheel supporting brackets.

1,424,298. LOCK FOR IGNITION CIRCUITS. MARVIN F. GIFFORD, Newaygo, Mich. Filed Aug. 12, 1920. Serial No. 403,034. 6 Claims. (Cl. 200—45.)



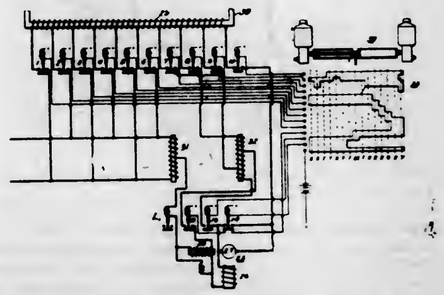
1. A locking device for an electrical circuit comprising a casing, a pair of conducting contact members disposed therein, a slidable carrying plate disposed in said casing, said carrying plate being formed with a detent at one end thereof, means for guiding said carrying plate in its slidable movement, a conducting connector carried by said carrying plate, a stem mounted in said casing for rotatable movement, a plurality of disks mounted on said stem, each of said disks being provided with a notch in its peripheral edge, tension means for normally holding said connector in contact with said members and said detent in the registering notches in said disk, means for occasioning movement of said carrying plate to move said connector out of contact with said contact members and to withdraw said detent from said registering notches, and means for operating said disks to lock said carrying plate in said last named position, wherefor re-closing of the circuit is prevented.

1,424,299. UNIVERSAL JOINT. RICHARD A. HARTMANN, Hartford, Conn., assignor to H. S. & S. Manufacturing Co., Hartford, Conn. Filed Mar. 10, 1921. Serial No. 451,085. 3 Claims. (Cl. 64—102.)



3. A joint of the class described comprising a pair of yoke members, trunnions carried thereby, each trunnion having a tapered portion and a screw threaded extremity, a ring member having openings therein through which the trunnions pass, bearing sleeves located in the openings and having tapered bores engaging the tapered portions of the trunnions, nuts on the extremities for adjusting the sleeves in the openings, said openings having elongated pockets in their walls, conduits connecting the pockets together and means for introducing lubricants into said pockets.

1,424,300. CONTROL SYSTEM FOR SINGLE-PHASE MOTORS. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 13, 1917. Serial No. 148,418. 2 Claims. (Cl. 172—274.)



1. The method of energizing a dynamo-electric machine of the commutator type provided with a cross-field winding, said machine being associated with a source of alternating-current, a reactor, and suitable switching means therebetween to establish a doubly-fed system of connections including an intermediate tap, which comprises, at times, employing said reactor as a preventive device, at other times employing said reactor solely as a current-limiting reactor, and, at still other times, employing said reactor as an auto-transformer in adjusting the voltage applied to said machine.

1,424,301. CLASP FOR GARTERS, ETC. ERASMUS HELM, Tuxedo Park, N. Y. Filed Sept. 7, 1921. Serial No. 499,075. 2 Claims. (Cl. 24—253.)

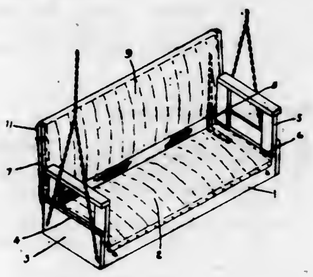
1. A garment supporter comprising a strip of elastic material, a clasp secured to one end of the elastic ma-

terial, and another clasp secured to the other end of the elastic material and consisting of a pair of substantially U-shaped members hingedly connected together to form a substantially hollow body, the jaws having inter-engag-



ing teeth and springs mounted within the hollow body and having engagement with the hinging connection of the jaws to maintain the teeth of the jaws normally in interengaging relation.

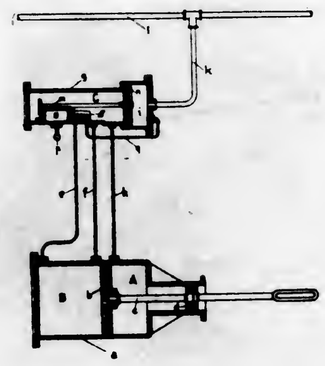
1,424,302. FOLDING SWING. CASSIUS B. HELMS, Indianapolis, Ind., assignor of forty per cent to Ivan M. Helms, Indianapolis, Ind. Filed Sept. 12, 1921. Serial No. 500,105. 1 Claim. (Cl. 155—68.)



A folding swing comprising a seat portion, arms hingedly secured to the seat portion and adapted to fold inwardly thereover, upwardly extending end sections secured to the seat portion against which said arms rest when in open position, a back hingedly secured to one edge of the seat and adapted to fold over the seat and the inwardly folded arms with its ends resting on the upper edges of said end sections, the outer upper corners of said end sections being tapered, a water proof covering attached to said back and one edge of the seat, and means for removably securing the opposite edge of the covering to the opposite edge of the seat.

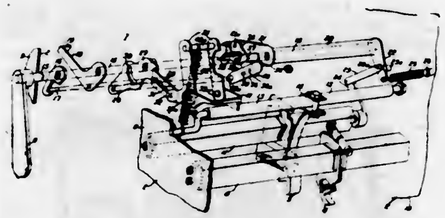
1,424,303. BRAKE APPARATUS FOR RAILWAY VEHICLES. WILHELM HILDEBRAND, Berlin, Germany, assignor to Knorr-Bremse Aktiengesellschaft, Lichtenberg, Berlin, Germany. Filed July 21, 1920. Serial No. 398,038. 3 Claims. (Cl. 303—32.)

1. In double chambered brake apparatus for railway vehicles, a brake cylinder of uniform working diameter, a piston movable therein dividing said cylinder into a working chamber and an idle chamber, a valve chamber, a valve movable in the said valve chamber, pressure equalizing communications on both sides of the piston opening into the said valve chamber, and an outlet to



atmosphere from the brake cylinder in front of the said piston, the said valve controlling the said pressure equalizing communication and also the said outlet.

1,424,304. CIRCUIT INTERRUPTER. CHARLES H. HODGKINS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1918. Serial No. 210,528. 15 Claims. (Cl. 200—70.)

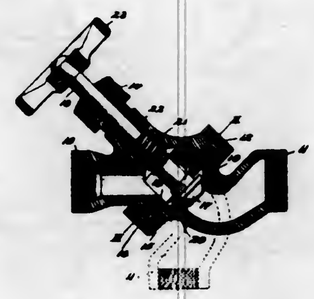


1. In a circuit interrupter, the combination with a movable contact member and an operating handle, of a movable member operatively connected to the movable contact member, a spring operatively connected to the movable member for operating the interrupter, a toggle device operatively connected between the handle and the movable member, and a spring co-operating with the toggle device for closing the interrupter and resetting the toggle device.

1,424,305. COMBINED VALVE AND PIPE UNION. JOHN OLOF HOFBERG, Philadelphia, Pa., assignor of one-half to Christian J. Steen, Philadelphia, Pa. Filed June 16, 1921. Serial No. 478,114. 4 Claims. (Cl. 251—157.)

2. A combined valve and pipe union, comprising two main members, one of said members providing a valve housing, the axis of said housing being set at an oblique angle to the main axis of the union, a valve spindle having suitable engagement in the housing for advancement and retraction, a cone-shaped head on the spindle, the second member being provided with a socket and the first member with a projection both having the

same taper as said head, a cone-shaped packing ring of the same taper as said head inserted in said socket



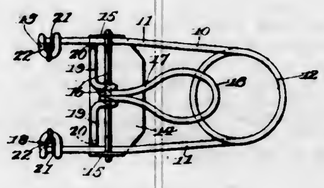
and forming a seat both for said projection and said valve head, and means for drawing the two members together to form a tight joint.

1,424,306. PAPER FILLER. WILLIAM HOSKINS, Chicago, Ill. Filed Mar. 31, 1921. Serial No. 457,503. 12 Claims. (Cl. 134—18.)

5. As an article of manufacture, powdered calcium sulfate provided with a superficial coating of calcium soap on its particles.

9. The process of preparing a filler material which comprises washing a pulverulent material having a slight solubility and capable of forming an insoluble soap with a soap solution, thereby forming a coating of insoluble soap upon its particles.

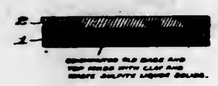
1,424,307. ANIMAL TRAP. HENRY JAMES HUGHEY, Jackman, Me. Filed June 7, 1921. Serial No. 475,670. 4 Claims. (Cl. 43—94.)



1. A trap comprising a plate having its ends upturned and apertured, a shaft supported in the upturned ends of the plate, a lever mounted on the shaft and having downwardly turned end portions, and a spring member including a pair of resilient arms connected at one end by spring coils formed integrally therewith, the other ends of the arms being angularly turned and outwardly bowed to provide gripping jaws, said arms being arranged to be engaged and held under tension by the downwardly turned portions of the lever.

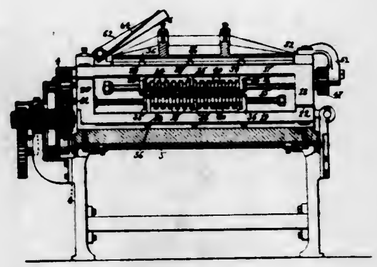
2. A trap comprising outwardly bowed spring jaws, means for holding the jaws in separated position at times, and means for attachment to each of the spring jaws at a position co-incident with the chord of the arc thereof to permit the jaws to grip a smaller animal therebetween.

1,424,308. PROCESS OF MAKING ROADS. HENRY HICKS HUNT, Yonkers, N. Y., assignor to Robeson Process Company, New York, N. Y., a Corporation of New Jersey. Filed May 27, 1918. Serial No. 236,743. 4 Claims. (Cl. 94—23.)



1. The process of making roads which comprises regrinding old base and top of asphalt pavements to a sand-like fineness and forming a roadbed thereof with the aid of sulfite waste liquor.

1,424,309. MACHINE FOR CUTTING SHEETS OR LAYERS. CARL B. JOHNSON, Winchester, Mass., assignor to Lamb & Nash Company, Boston, Mass., a Corporation of Maine. Filed Jan. 16, 1919. Serial No. 271,479. 4 Claims. (Cl. 164—61.)

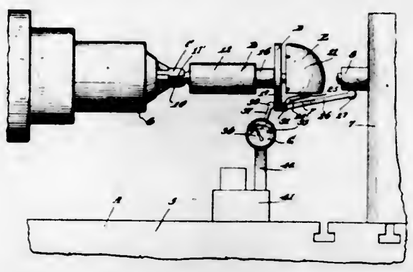


1. In a machine of the character described, in combination, a stationary framework, feeding rolls and drawing rolls spaced apart and supported by said framework, a cutter-carrying frame carried by said framework and located between said rolls and movable from between the same, and composed of members movable one with relation to the other, a rotatable shaft carried by one of said frame members, a second rotatable shaft carried by the other of said frame members, disk cutters mounted on said shafts, washers mounted on said shafts to space apart the disk cutters thereon, means for adjustably connecting the members of said frame to permit them to be moved as a unit and permit the said members to be moved toward and from each other to adjust the said cutters carried by one of said frame members toward and from the cutters carried by the other of said frame members, and means for rotating said shafts.

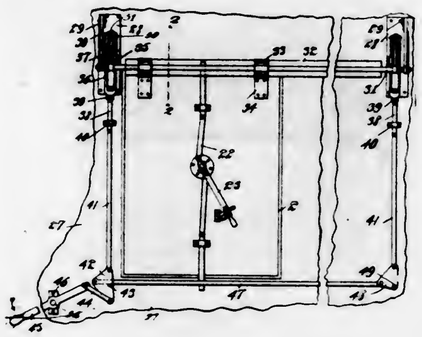
1,424,310. INDICATOR. HENRY J. KREBS, Dayton, Ohio. Filed Jan. 7, 1921. Serial No. 435,686. 9 Claims. (Cl. 33—172.)

1. The combination with a metal working machine including a bed, a chuck, and a work holder, of an indicator for the work and chuck including a gauge carried by the

bed, and operating and work engaging arms operatively connected together and carried by the chuck for engaging the work, and means carried by the chuck and actuated by said arms for operating the gauge.



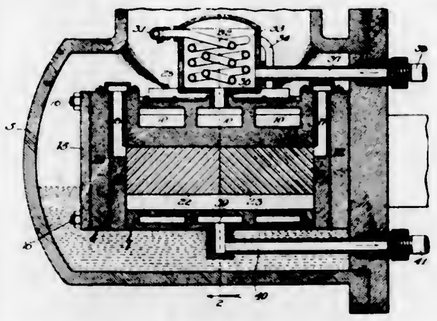
1,424,311. DOOR HANGER. CHARLES A. KUNZ, Dubuque, Iowa. Filed Sept. 1, 1917, Serial No. 189,391. Renewed June 26, 1922. Serial No. 570,937. 1 Claim. (Cl. 20—24.)



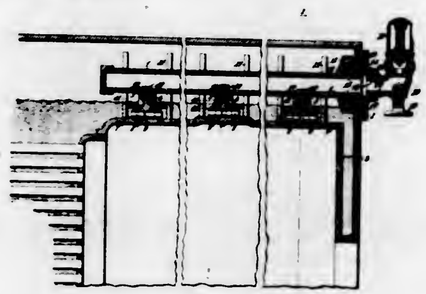
The combination with a casing having a door way, and a door cooperating with the door way, of hangers having their upper ends pivoted to the casing; a track carried by the lower ends of the hangers, the door being slidably mounted on the track; brackets on the casing; yokes slidable in the brackets; arms pivoted at their upper ends to the upper ends of the yokes and pivoted at their lower ends to the track; means for connecting the yokes; and mechanism for operating said means.

1,424,312. COMPRESSOR. GEORGE I. LEONARD, Chicago, Ill. Filed May 5, 1920. Serial No. 379,042. 4 Claims. (Cl. 230—6.)

1. A rotary compressor comprising, in combination, a chamber for receiving a bath of sealing liquid, a gear case extending into said bath and containing an inlet and an outlet, intermeshing gears rotatable in said gear case and operating to compress the gas entering the case through said inlet and discharge it through said outlet, the liquid in said chamber being subjected to the pressure of the gas compressed by said gears, a water jacket for said gear case and extending into said bath, and means for conducting liquid from the body thereof in said chamber, into said gear case, said means being subjected to the cooling action of water in said jacket and cooling the liquid.



1,424,313. SAFETY SIGNAL DEVICE FOR BOILERS. JULIUS C. LUEDKE, Cedar Rapids, Iowa. Filed Jan. 13, 1921. Serial No. 436,978. 3 Claims. (Cl. 122—504.1.)



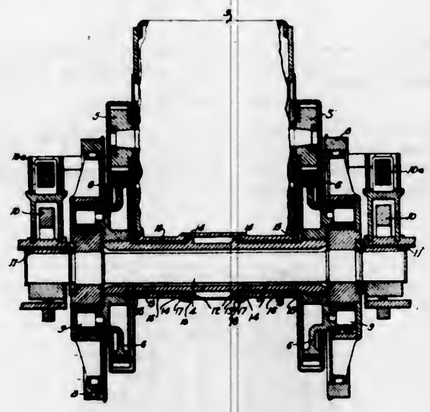
3. In a safety signal means of the character described, the combination with the boiler having a head sheet and a crown sheet, of a pipe, fusible signal buttons carried by said pipe to lie in proximity to the top of the crown sheet and extending radially from the pipe, said head sheet having an opening of a diameter large enough to permit introduction of said pipe and the fusible signal buttons carried thereby and removable means for sealing said pipe in said opening.

1,424,314. VEHICLE WHEEL. CHARLES A. MARIEN, St. Louis, Mo. Filed Oct. 3, 1921. Serial No. 504,882. 1 Claim. (Cl. 301—39.)



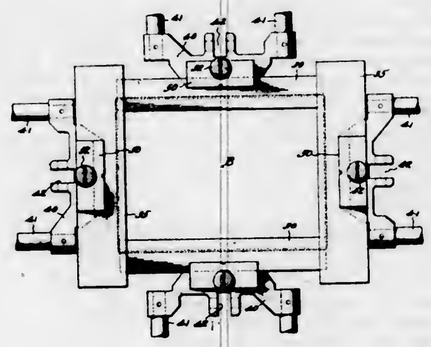
A vehicle wheel provided with a flanged detachable split rim, a pneumatic tire on said rim, and a solid band positioned over the rim between one flange thereof and the tire, the tire being inflated against the band said band having a tread projecting laterally therefrom and means for holding the band against movement when the tire becomes deflated.

1,424,315. BEARING. BENJAMIN S. MOORE, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 23, 1920. Serial No. 353,502. 7 Claims. (Cl. 105—136.)



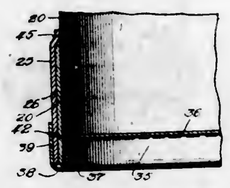
1. In a vehicle, an axle member provided with axle and thrust-bearing surfaces, axle and thrust bearing members engaging said surfaces, and cover means completely enclosing all of said bearing surfaces.

1,424,316. TURN-IN FINGER FOR BOX-COVERING MACHINES. ALFRED J. MORRISON, Denver, Colo., assignor to Stokes and Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 2, 1920. Serial No. 427,737. 10 Claims. (Cl. 93—54.)



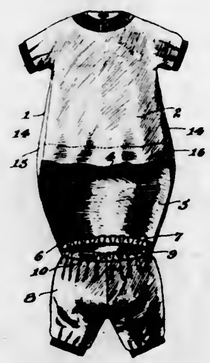
1. In a box covering mechanism, a first pair of oppositely-acting tuck-in-fingers adapted to overlap and cooperate with a second pair of fingers throughout a substantial range of variations in the spacing of said second pair.

1,424,317. GOLF BAG. NICHOLAS NESSER, Chicago, Ill., assignor to Nesser & Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 24, 1921. Serial No. 510,066. 3 Claims. (Cl. 150—1.5.)



1. A golf bag comprising an integral raw hide bottom formed of a disk of said material having downwardly turned edges, the material of said edges being upwardly turned parallel with said downwardly turned portions to provide an annular channel, said upwardly turned portions rising above the plane of said disc, material forming the body of the bag extending into said channel and stitching passing through both walls of said channel and said body material closely adjacent the plane of said disc.

1,424,318. CHILD'S CLOTHING. ELLEN DENWOODY NESTER, Gardner, Mass. Filed Feb. 23, 1922. Serial No. 538,586. 3 Claims. (Cl. 2—145.)

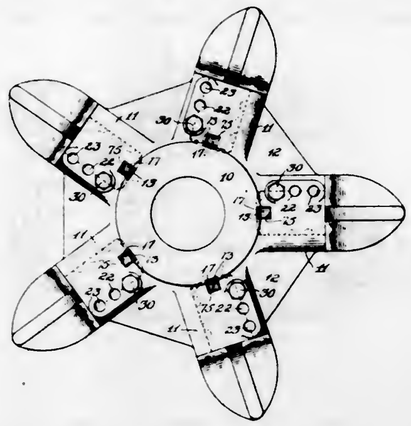


2. A one piece buttonless suit comprising a blouse member and a pair of trouser members, the blouse member provided with an extension permanently connecting the trouser members therewith which is folded to form a portion of the lower edge of the blouse when the trouser members are in use on the wearer, and said trouser members provided with a waist belt adapted to hold them in place, substantially as described.

1,424,319. KEY BOLT. JOHN P. NORTHEY, Toronto, Ontario, Canada. Filed Nov. 2, 1920. Serial No. 421,360. 1 Claim. (Cl. 85—8.)

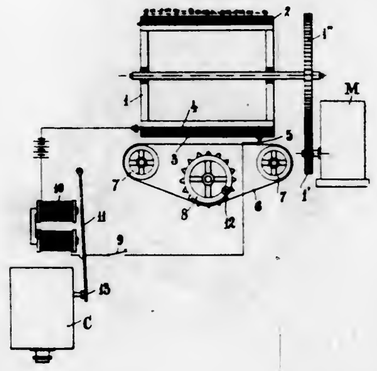
A washer for a slotted key bolt having a key seat formed in one face and an extension from the same face divided from the seat to its outer end and adapted to be against the stem of the bolt in alinement with the slot to resist springing and bending of the stem of the

shank adapted to fit into such sockets, a plurality of holes drilled transversely through each of such sockets,



and notches on the shank of the tooth adapted to successively register with such holes as the shank is moved inwardly and outwardly in the socket.

1,424,328. CONTROLLING DEVICE FOR ELECTRIC CIRCUITS. CARLO VERRANDO, Turin, Italy. Filed June 1, 1920. Serial No. 385,873. 1 Claim. (Cl. 200—46.)



A device for controlling an electric circuit at regular and adjustable intervals of time comprising a rotary member, having an insulating portion, means for driving said member with constant speed, a common conducting part, a plurality of rows of contact parts inserted in said insulating portion and all connected with said common conducting part, said contact parts being spaced at regular distances from each other in each row, a contact finger adapted to engage said contact parts and an endless band carrying said finger and mounted in front of and across said rows of contact parts for shifting said contact finger, the electric circuit in which this controlling device is inserted having one pole connected with said common conducting part and the opposite pole connected with said contact finger.

1,424,329. ADJUSTABLE ELASTIC SHOULDER UNDERWEAR SUPPORTER. ALABAMA G. WALSH, Mobile, Ala. Filed Nov. 7, 1921. Serial No. 513,408. 2 Claims. (Cl. 241—12.)



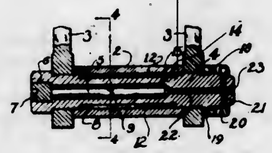
1. A lady's adjustable elastic shoulder underwear supporter comprising an elastic member, fastening means at each end thereof, and an inelastic member covering such elastic member and secured adjacent its ends thereto, with portions extended to cover said fastening means, said inelastic member being of greater width than the elastic member.

1,424,330. LOG BUNK. WILLIAM G. WHITE, Hoquiam, Wash. Filed Dec. 27, 1920. Serial No. 433,255. 6 Claims. (Cl. 105—384.)



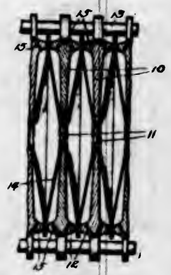
1. In a log bunk, the combination within an oblong hollow frame, of a pivoted chock hung horizontally therein and substantially filling the space between the sides of said frame, a supporter, also pivoted to the frame within reach of the sweep of the chock, and manipulative means adapted to sustain or release the supporter at will.

1,424,331. SPRING BOLT. THOMAS E. ADKINS, Canton, Ohio. Filed Jan. 24, 1921. Serial No. 439,567. 6 Claims. (Cl. 64—27.)



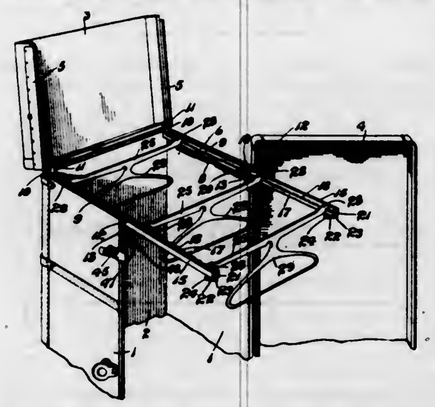
1. A journal bolt having a bearing portion and shouldered portions at the extremities of the bearing portion and a removable bushing formed of longitudinal sections surrounding the bearing portion of the bolt.

1,424,332. PROCESS OF PRODUCING A REPAIR IN FABRICS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed May 12, 1920. Serial No. 380,827. 7 Claims. (Cl. 18—59.)



1. The method of repairing fabric of filter press sacks or other articles which comprises the insertion of vulcanizable material in the portion of the fabric to be repaired, and curing said material to cause it to adhere to said fabric and form a continuation of the body thereof.

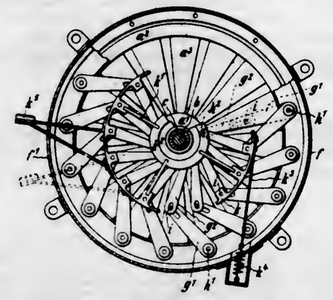
1,424,333. TRUNK GARMENT-HOLDING RACK. JOHN THOMAS BATTS, Grand Rapids, Mich. Filed May 7, 1921. Serial No. 467,625. 9 Claims. (Cl. 211—16.)



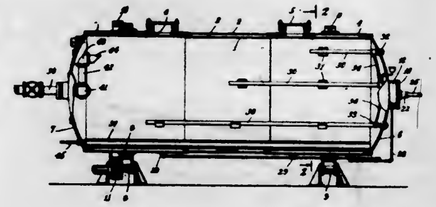
8. In combination with a trunk having a movable top, a rack for holding garment hangers mounted in the trunk below the top and including a relatively stationary rack bar and a second rack bar pivotally connected thereto at its outer end for movement from a folded position above the first rack bar to a position in alinement therewith, means on the rack bars for slidably carrying garment hangers when the same are in alinement, and interengaging means at the free ends of the bars for releasably locking the same in folded position.

1,424,334. DEVICE FOR TEMPORARILY CONVERTING A CONTINUOUS RAY PENCIL INTO AN INTERMITTENT ONE. PAUL BECKER, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Aug. 8, 1921. Serial No. 490,722. 2 Claims. (Cl. 116—22.)

1. In a device for temporarily converting a continuous pencil of rays of light into an intermittent one, a circular disc of a substance impervious to light rotatable about its axis and provided with a number of segments, consecutive in the direction of its circumference, a number of arms disposed parallel to the said rotatable disc and rotatably so connected to the pedestal body of the said disc that they may be brought into two different terminal positions, in one of which, on the disc being rotated, they cover a part as invariable as possible of the said segments, whilst in the other one, on the disc being rotated, they alternately cover the segments completely and leave them quite free.



1,424,335. ROTARY EXTRACTING APPARATUS. JOHN W. BODMAN, Western Springs, Ill., assignor to William Garrigue & Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,015. 3 Claims. (Cl. 87—13.)



1. In extracting apparatus, the combination of a horizontal rotary drum having a head at one end with an enclosed pocket therein, a jacket surrounding said drum, connecting pipe means leading from said pocket to said jacket, a valve comprising a rotary and a stationary member and having an interior space, at the inner side of said head, spaced steam delivery pipes secured within said drum, connected to said valve to open into said space only when they occupy the lower portion of the drum, during the rotation thereof, an axial pipe leading through the outer portion of said head into said pocket, and a pipe of smaller diameter extending through said first pipe and into said space within said valve.

1,424,336. CLEANER FOR TUBES OF CONDENSERS, BOILERS, ETC. MARK K. BOWMAN, New York, N. Y., assignor to M. K. Bowman-Edson Company, New York, N. Y., a Corporation of New York. Filed Jan. 12, 1921. Serial No. 436,677. 10 Claims. (Cl. 15—104.06.)



1. A tube cleaning projectile of the class described, comprising in combination, a rod, a series of similar

scraper elements rigidly held at an angle with respect to said rod, the ends of successive scraper elements being staggered with respect to each other circumferentially of the rod, the length of said elements extending free of said rod from said second end in a direction circumferentially of said rod, the scraper elements being spaced from each other longitudinally of the rod, the entire length of each scraper element being intermediate the adjacent scraper elements at opposite sides thereof.

1,424,337. CURTAIN FIXTURE. JAMES H. BOYE, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,384. 8 Claims. (Cl. 156—19)



6. In a curtain fixture, the combination with a hollow flat curtain rod, of a coupling strip for a locking member mounted in one end of said rod, said coupling strip having a laterally offset tongue clampingly engaged with the end portion of a side wall of said rod, and a transversely elastic wire spring anchored to said coupling member and adapted to interlockingly engage with a socket of a rod-supporting bracket.

1,424,338. INDEX TAB. CARL F. BRENNE, Yakima, Wash., assignor to Universal Index Tab Company, Seattle, Wash. Filed Dec. 9, 1920. Serial No. 429,436. 5 Claims. (Cl. 40—23.)



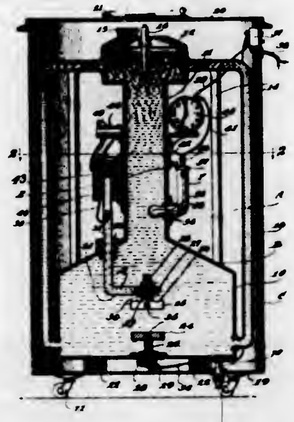
2. An index tab comprising a transparent sheath forming a pocket, an inner member carried by said sheath and projecting into said pocket to form lateral spaces and a connecting space beneath the sheath of a depth not less than the width of the lateral spaces, and adhesives means for affixing the sheath to a card.

1,424,339. MINERAL-CLASSIFYING DEVICE. JAMES H. BURGESS, Port Angeles, Wash., assignor of one-half to Clara M. Clayton, Seattle, Wash. Filed June 2, 1919. Serial No. 301,192. Renewed Dec. 5, 1921. Serial No. 520,173. 4 Claims. (Cl. 83—56.)



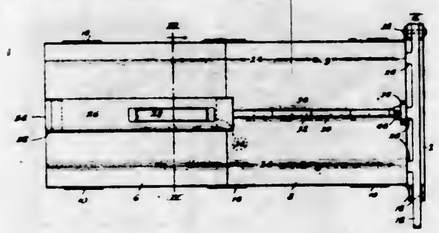
2. The method of classifying materials which consists in supplying the material to the higher end of an inclined floor having a collecting and holding surface which is partially submerged and subjecting it to water having a wave action in the direction of the upward inclination of the floor.

1,424,340. ELECTRIC HEATING APPARATUS. JOHN C. CAVITT, Weirton, W. Va. Filed Apr. 27, 1921. Serial No. 464,969. 12 Claims. (Cl. 219—38.)



1. An electric heater for liquids comprising a liquid container, an electric circuit, a pair of electrodes interposed in the circuit and arranged in the liquid in the container, and means for initially adjusting the position of the electrodes in relation to each other.

1,424,341. CORE MACHINE. GEORGE WILLIAM COMBS, Leavenworth, Kans. Filed Oct. 27, 1919. Serial No. 333,747. 7 Claims. (Cl. 22—11.)



1. In a machine of the character described, a tubular core die adapted to be slipped off of the enclosed core, an element fitting within said die and abutting one end of the core to prevent longitudinal movement of the latter during removal of the die, a rod extending outwardly from said element, a second element to support the outer end of the rod, means to prevent longitudinal movement of said rod, and a support for the die and the core.

1,424,342. COLLAPSIBLE ARCH FORM. GLENN A. COMPTON, Minneapolis, Minn., assignor to Northfield Iron Company, Northfield, Minn., a Corporation of Minnesota. Filed Aug. 28, 1920. Serial No. 406,079. 14 Claims. (Cl. 25—131.5.)

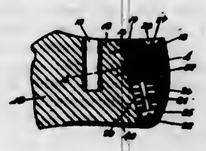
3. A collapsible form for use in the construction of arches including longitudinally spaced bearing brackets arranged in laterally spaced pairs, each of said bearing brackets having a stop surface and an inclined cam surface, an arch bar supported on the cam surfaces of each laterally spaced pair of bearing brackets, said arch bars being held in upright positions on the upper extremities of the cam surfaces by the stop shoulders and having interlocking engagement with the bearing brackets to hold the arch bars against tipping movement toward the stop surfaces, the laterally spaced bearing brackets being turned in opposite directions with their cam surfaces facing outward, and a coupling rod connecting the arch bars for holding the same against tipping movement away from the stop surfaces.



9. A collapsible form for use in the construction of arches including longitudinally spaced outer and intermediate bearing brackets arranged in laterally spaced pairs, an arch bar supported on each laterally spaced pair of bearing brackets for compound downward and outward swinging movements, an intermediate coupling rod connecting the two intermediate arch bars, and end coupling rods connecting the end arch bars with the intermediate arch bars.

11. A collapsible form for use in the construction of arches having in combination, an arch bar, spaced bearing brackets supporting the ends thereof, said brackets having inclined cam surfaces on which said bars are normally supported, said brackets having means engaging the sides of said arch bar to hold the same against tipping movement on said brackets.

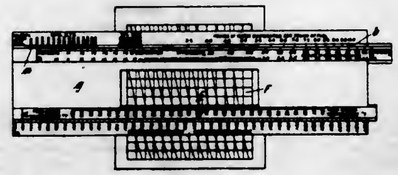
1,424,343. ADJUSTABLE LAST. HARVEY F. CRAWFORD, Brockton, Mass.; Linda M. Jackson executrix of said Harvey F. Crawford, deceased. Filed May 29, 1920. Serial No. 385,206. 2 Claims. (Cl. 12—135.)



1. A last comprising a body which is reduced at its rear end to form an incomplete heel portion, and is provided with a spindle socket adjacent to said rear end; and a movable heel section formed to complete said heel portion, and provided with means for engaging a pulling device, the last body and heel section being provided with complemental interengaged guide members arranged to permit variations of the operative length of the last by movements of the heel section, and with means for limiting the last-lengthening movement of the heel section, the last body and heel section being engageable respectively with a jack spindle and with a pulling device, so that the last may be shortened by a tipping movement thereof.

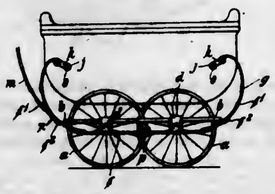
1,424,344. CALCULATING DEVICE. JAMES CROMPTON, London, and WILLIAM GALLAGHER, Manchester, England. Filed Mar. 8, 1920. Serial No. 364,328. 1 Claim. (Cl. 235—70.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

Computing apparatus comprising in combination, a frame provided with a fixed scale representing factors of evaporation corrected for superheat, a sliding scale on said frame having a pointer moving along a fixed scale and scaled to represent temperature of feed water, a chart slidably mounted in the frame at right angles to the sliding scale and coacting with the same, said chart having steam curves thereon representing the point of saturation and total heat of superheated steam, and scales representing the boiler pressure and temperature



of saturated steam, the arrangement being such that given the temperature of the feed water and steam together with the boiler pressure, the factor of evaporation can be obtained, substantially as described.

1,424,345. UNDERCARRIAGE FOR VEHICLES. WILLIAM HENRY DUNKLEY, Birmingham, England. Filed June 15, 1920. Serial No. 389,228. 10 Claims. (Cl. 280—47.)



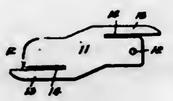
1. In a perambulator vehicle, a pair of axles, wheels on said axles, longitudinally disposed chassis members, means connecting said axles to said longitudinal chassis members, a body, body supporting members, the upper ends of said members being spaced apart in a transverse direction more widely than the lower parts of said members.

1,424,346. RELAY. JOHN ERICKSON, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 14, 1919. Serial No. 282,544. 7 Claims. (Cl. 175—337.)



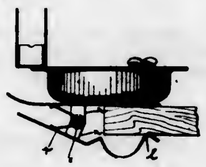
3. In a relay having a magnet and a heel piece, an armature for the magnet having a roller which is attracted by the core of said magnet to close a circuit, said armature mounted on said heel piece by means of a flexible spring, said spring reinforced by a lug on the armature and another lug on the heel piece.

1,424,347. ANTISKID DEVICE. JOHN H. EVANS, North Carrollton, Miss. Filed Oct. 31, 1917. Serial No. 199,535. 2 Claims. (Cl. 113—116.)



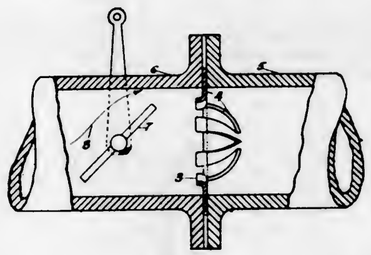
1. A blank for forming a connector between a chain link or the like and a cable, consisting of a plate having apertures adjacent its ends, and fingers integral with opposite edge portions of the plate and extending toward opposite ends of the latter.

1,424,348. ASH TRAY AND SIMILAR RECEPTACLE. SIMON W. FARBER, Brooklyn, N. Y. Filed Aug. 7, 1920. Serial No. 401,904. 3 Claims. (Cl. 131—51.)



2. An article of manufacture comprising an ash tray and a clip on the under surface thereof, said clip comprising a pivoted member having such area relative to the tray as to provide a stable base therefor when the clip is in closed position and the bottom resting on a horizontal supporting surface, said clip being shaped to engage the projecting edge of a support with the tray on the upper surface thereof and the free end of the lower member of the clip in secure engagement with the under surface of said support.

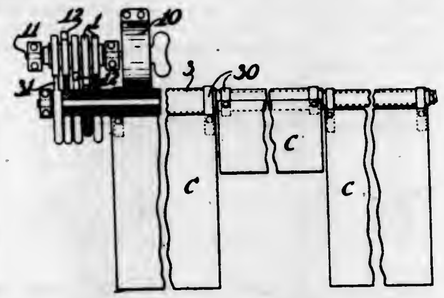
1,424,349. MIXING DEVICE. ROLLO B. FRYETT, Bremerton, Wash. Filed June 13, 1921. Serial No. 477,222. 1 Claim. (Cl. 48—180.)



An auxiliary carbureting device comprising a flat ring having a plurality of inwardly projecting radially converging surfaces, said surfaces being out of the plane of said ring, said ring having on its opposite side a plurality of short projections between the bases of said converging surfaces.

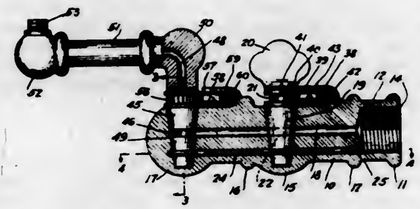
1,424,350. DISPLAY APPARATUS. EDGAR L. GALE, Bremerton, Wash. Filed June 22, 1921. Serial No. 479,564. 9 Claims. (Cl. 40—139.)

1. A display device including a rotatable cam cylinder having axially spaced thereon a plurality of cams, levers each having an arm positioned to be engaged by its respective cam, and a plurality of telescoped tubes each connecting at one end with its respective lever to be



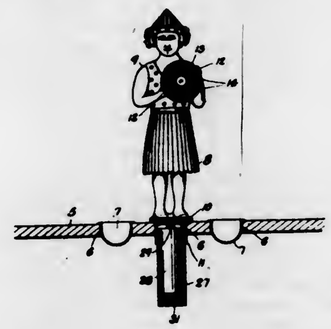
oscillated thereby, and having means at its opposite end for supporting an article to be displayed.

1,424,351. GAS FIXTURE. JOSEPH GENTILE, Brooklyn, N. Y. Filed June 18, 1921. Serial No. 478,548. 6 Claims. (Cl. 240—74.)



1. A gas fixture comprising a body having means for attachment to a gas pipe, said body containing a longitudinal passage, a tapered plug set transversely in said body, said plug having a transverse opening registrable with the mentioned passage, a rod engaged in said body parallel to the passage therein, said plug containing a recess extending partially therearound through which said rod passes, and means for automatically locking said plug when in adjusted position.

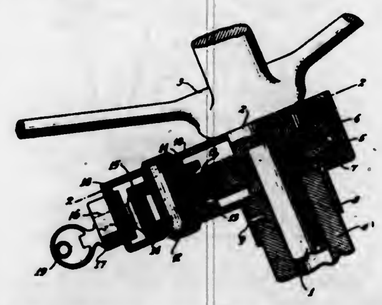
1,424,352. ILLUMINATING DEVICE FOR REPRODUCING MACHINES. ROBERT F. GOOD, New York, N. Y. Filed June 24, 1921. Serial No. 480,077. 4 Claims. (Cl. 240—2.)



1. The combination with a sound reproducing machine of the class described, of a suitable statuette, an electric

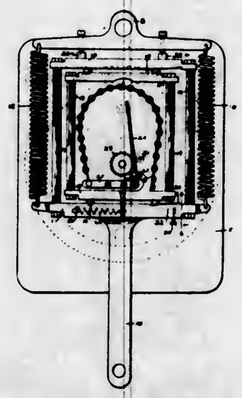
light bulb socket mounted in said statuette, said statuete being provided with a base adapted to be passed downwardly through an aperture in the top board of the machine, means for supporting a battery in connection with said base, and means for placing said battery in electric circuit with said socket.

1,424,353. STEERING-WHEEL LOCK FOR MOTOR VEHICLES. CHARLES M. GREY, East Orange, N. J. Filed Nov. 22, 1920. Serial No. 425,639. 14 Claims. (Cl. 70—129.)



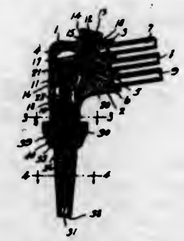
1. A lock embodying a rotatable member provided with a smooth, circular periphery, means cooperable with the smooth, circular periphery of said member for locking it against rotation in both directions, and means for positively precluding inadvertent operation of the locking means.

1,424,354. SPRING SCALE. CLARENCE H. HAPGOOD, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 7, 1918. Serial No. 257,087. 18 Claims. (Cl. 265—69.)



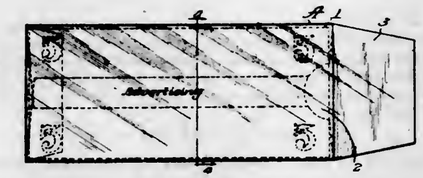
1. In a weighing scale, in combination, load-counterbalancing mechanism, including springs, an indicator, motion-transmitting means to cause movement of the indicator proportional to the distortion of the springs under load, a thermostatic device for changing the ratio of movement of said indicator as compared with the distortion of the springs to compensate for the effect of changes of temperature on said springs, and means so connecting said thermostatic device to said motion-transmitting means as to maintain the ratio of movement of said indicator as compared with the distortion of the springs substantially constant throughout the capacity of the scale.

1,424,355. BLOWPIPE. JOHN HARRIS, Lakewood, Ohio, assignor to Carbo Oxygen Company, Pittsburgh, Pa., a Corporation of Delaware. Filed July 10, 1920. Serial No. 395,289. 3 Claims. (Cl. 158—27.4.)



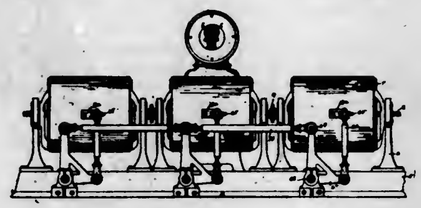
1. A blow pipe of the character described comprising a head, a tip carried by said head and comprising an inner member having a central passageway for cutting oxygen, the said member having intermediate the ends thereof an enlargement provided with one or more passageways for preheating oxygen and a combustible gas, an outer tip member surrounding the inner member and engaging the said enlargement, there being a keyway provided between such enlargement and the outer member and a key in said keyway securing said members together, and means for supplying cutting oxygen to the first mentioned passageway and a mixture of preheating oxygen and a combustible gas to the second passageway or passageways.

1,424,356. CONTAINER FOR HOLDING BANK BILLS. COLUMBUS HEALY, Chicago, Ill. Filed Jan. 11, 1922. Serial No. 528,472. 2 Claims. (Cl. 206—46.)



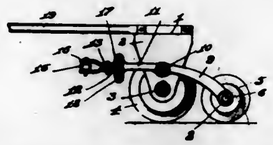
1. A package comprising a bill container containing a bill and made at least in part of transparent material to permit the bill to be seen through it and provided with advertising matter associated with said transparent material so that the sight of the bill will attract the eye to the advertising material.

1,424,357. DYNAMOMETER. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Aug. 15, 1918. Serial No. 249,970. 25 Claims. (Cl. 265—24.)



1. In a dynamometer, in combination, a plurality of torque resisting elements, and a lever system capable of receiving force separately from certain of said elements and transmitting such force to another of said elements.

1,424,358. PULVERIZER. LYNN I. HOKE and JOHN I. HOKE, South Bend, Ind. Filed June 4, 1921. Serial No. 474,885. 7 Claims. (Cl. 55—21.)



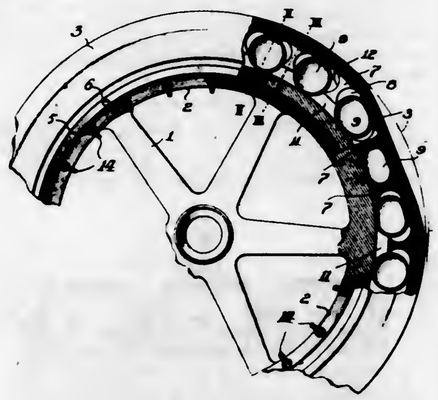
1. The combination with a land roller, of an auxiliary roller trailed thereby, said auxiliary roller being pivotally mounted to the rear ends of arms extending forwardly of the land roller, said forwardly extending arms being pivotally mounted to the land roller at points intermediate their lengths, and means whereby draft means may be connected to the forward ends of said arms and utilized for propelling the roller and exerting a downward pressure on the auxiliary roller.

1,424,359. BUMPER BAR. WALTER V. ISGRIG, Milwaukee, Wis., assignor to Badger Manufacturing Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Sept. 15, 1919. Serial No. 323,902. 6 Claims. (Cl. 293—55.)



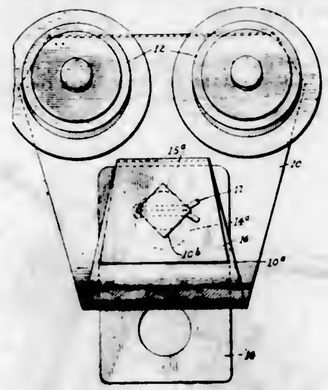
2. A bumper bar comprising a seamless hollow body, and ears formed on the ends of and integral with said body, said ears being bent at substantially right angles to the axis of the bumper bar and joined by molecular adhesion to prevent ingress of moisture to the interior of the bar.

1,424,360. TIRE. GEORGE JACOBS, Detroit, Mich. Filed Oct. 4, 1920. Serial No. 414,407. 3 Claims. (Cl. 152—22.)



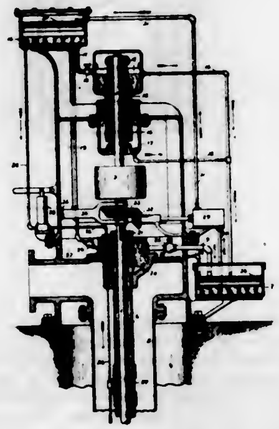
1. In a vehicle wheel, a rim, an outer casing, cushion members on said rim, and secondary cushion members carried by said outer casing between said cushion members on said rim and normally adapted to engage said rim.

1,424,361. TROLLEY. WILLIAM P. KRAUSE, Chicago, Ill., assignor to Hanna Engineering Works, Chicago, Ill., a Corporation of Illinois. Filed Nov. 22, 1919. Serial No. 339,851. 4 Claims. (Cl. 105—154.)



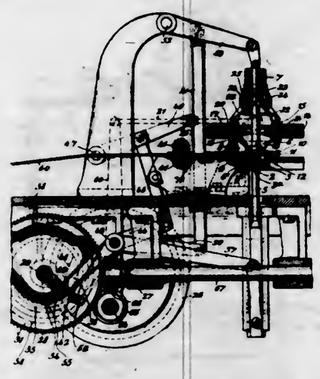
1. A trolley comprising side plates having their ends bent upwardly and inwardly and provided with non-circular apertures, a load shaft having non-circular portions extending through said apertures, a cylindrical portion intermediate said non-circular portions and removable spacing members carried by said load shaft intermediate said side plates to permit adjustment thereof longitudinally of said shaft.

1,424,362. LUBRICATING SYSTEM FOR DEEP-WELL PUMPS. FERDINAND W. KROGH, San Francisco, Calif.; Mary L. Krogh, Fannie J. Clarke, C. A. Krogh, and Oscar Poulsen, legatees by court order of distribution of the estate of said Ferdinand W. Krogh, deceased, assignors to Krogh Pump and Machinery Company, San Francisco, Calif., a Corporation of California. Filed May 28, 1918. Serial No. 237,356. 6 Claims. (Cl. 184—6.)



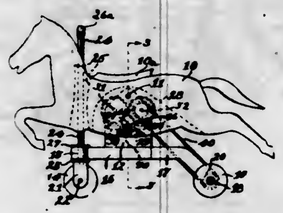
3. A lubricating system for vertical shaft bearings of a deep well pump, comprising a supply tank, means for feeding lubricant from said tank to said bearings, a cup secured to said shaft and rotatable therewith adapted to receive waste lubricant from said bearings, an annular stationary receptacle surrounding said cup for said waste lubricant, a tank adapted to receive said waste lubricant and means for carrying said waste lubricant from said tank to said supply tank.

1,424,363. PROCESS OF WRAPPING AND MACHINE THEREFOR. RICHARD LEUMANN, Chailly-sur-Lausanne, Switzerland. Filed Mar. 31, 1921. Serial No. 457,484. 18 Claims. (Cl. 93—5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



18. In a process for wrapping sweetmeats and the like, feeding a wrapper between the article to be wrapped and a membrane, causing the membrane to press the wrapper snugly into the article except on one side, and thereafter causing the wrapper to lie snugly against the side not yet wrapped.

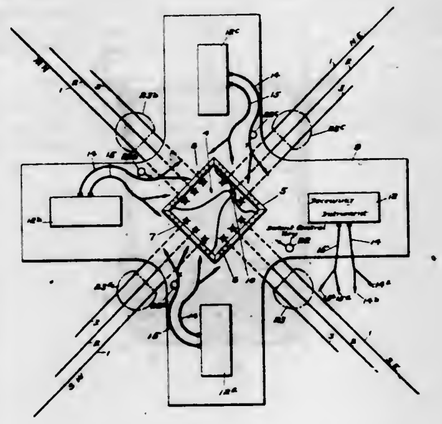
1,424,364. HOBBYHORSE. CHARLES H. LISTER, North St. Paul, Minn. Filed Oct. 27, 1920. Serial No. 419,861. 6 Claims. (Cl. 208—42.)



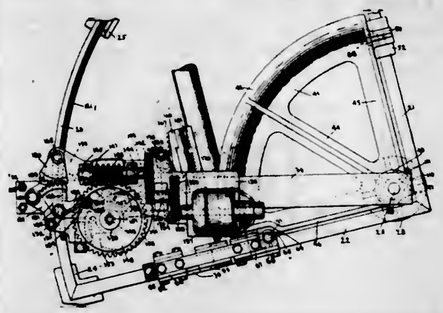
1. In a hobby horse, a frame, a driving wheel journalled in said frame, a standard mounted on said frame, a hollow body tiltably supported on said standard, a pair of shafts journalled in said standard within said hollow body, a pair of meshing gears and ratchets mounted on said shafts, pawls arranged within said body to severally engage said ratchets and a chain operatively connecting one of said shafts with said driving wheel.

1,424,365. RADIOSIGNALING. EDWARD H. LOFTIN, Washington, D. C., and HENRY H. LYON, Hyattsville, Md. Filed Apr. 5, 1920. Serial No. 371,558. 8 Claims. (Cl. 250—33.)

7. In a system of radio signaling a receiving station employing grouped components of different lengths from which antenna combinations may be selected, and a plurality of similar control panels to all of which each of the components is connected.



1,424,366. BENDING PRESS. FRED W. MCARDLE, Boston, Mass. Filed Oct. 29, 1920. Serial No. 420,520. 14 Claims. (Cl. 153—46.)

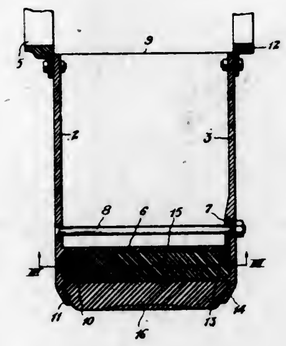


1. In a bending press, the combination of a rigid former; a shoe adapted to coact therewith; a lever swiveled at one end to the shoe and at the other rotatable on a fixed axis; a link, hinged at one end to the shoe, and at its other end to a lever rotatable about a fixed axis; a rotatable cam, adapted to engage the hinge connecting the lever and link, for the purpose of rotating the lever, and thereby, through the link, causing the shoe to coact with the former; and means for rotating the cam, as and for the purpose described.

1,424,367. WHEEL FOR POWER-PROPELLED VEHICLES. JAMES R. MCFALL, Cleveland, Ohio. Filed May 16, 1919. Serial No. 297,581. 7 Claims. (Cl. 152—9.)

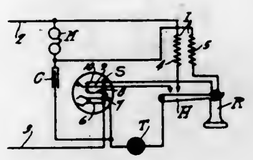
1. A wheel comprising the combination of a hub, a rim, a structure connecting said hub and rim, and a tire including inner and outer tires about said rim, said inner

tire being composed of a series of circumferentially arranged sections, and distinct flanges carried by said rim



for holding said tires in place, one pair of said flanges being interposed between said tires, said inner tire sections being oblique to the wheel axis.

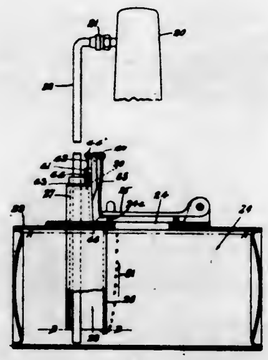
1,424,368. SUBSTATION TELEPHONE CIRCUITS. TALBOT G. MARTIN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 21, 1921. Serial No. 438,987. 3 Claims. (Cl. 179—81.)



2. In a substation circuit arrangement for telephone exchange systems, a receiver, a transmitter, normally open circuits for said receiver and transmitter, means for closing said circuits, an impulse sending device, a pair of contact springs actuated by said device for transmitting impulses, means actuated during the operation of said sending device for opening the receiver circuit and shunting the transmitter circuit, a ringer, a condenser, and a circuit for said ringer including said condenser and the said pair of contact springs.

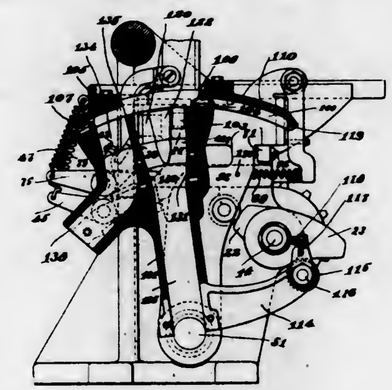
1,424,369. FUEL TANK. THOMAS MIDGLEY, JR., Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed July 5, 1918. Serial No. 243,316. 12 Claims. (Cl. 158—36.)

1. In a fuel supply tank for internal-combustion engines, the combination with a normally sealed fuel chamber, of an auxiliary chamber located above the bottom of the fuel chamber open to atmosphere and communicating at the bottom with the fuel chamber; and a pipe leading to the engine intake from a level near the bottom



level of the fuel chamber, said fuel chamber being located below the level of the engine intake.

1,424,370. APPARATUS FOR SORTING MACHINE ELEMENTS. CHESTER T. MORBY, Providence, R. I. Filed July 19, 1921. Serial No. 485,993. 55 Claims. (Cl. 83—92.)

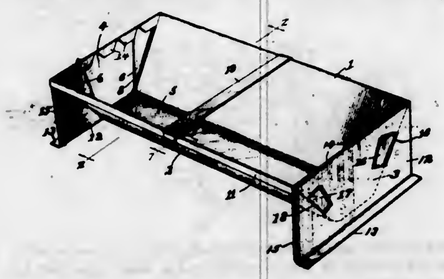


1. A nut blank sorting and positioning machine, comprising means for rejecting imperfect blanks, and means for similarly orienting properly perforated blanks.

1,424,371. TROUGH. CARL G. NAYLOR and GEORGE F. HAUF, Chicago, Ill., assignors to Robertson Brothers Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 6, 1919. Serial No. 281,022. 18 Claims. (Cl. 119—61.)

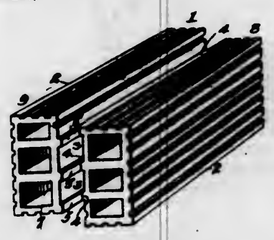
1. A feed trough made of a single piece of sheet metal having outwardly flaring side walls, and end walls interfolded to provide outwardly open spaces between

adjacent folds and end pieces, to provide bases for the trough, having inwardly extending ears for insertion



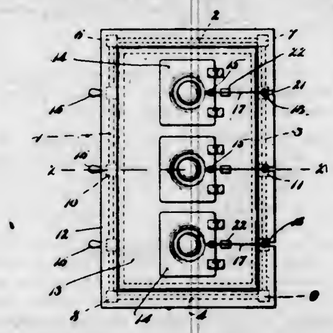
within said spaces and having a part to fold over the upper edge of the end wall of the trough when the end pieces are in place.

1,424,372. SUPERLOCKING HOLLOW TILE. OTIS V. NEESE, ELO L. NEESE, and EARL C. NEESE, Round Top, Tex. Filed Oct. 19, 1921. Serial No. 508,788. 1 Claim. (Cl. 72—41.)



As a new article of manufacture, a superlocking hollow tile block comprising a pair of equal sized hollow sections, one section extending beyond one end and the side adjoining that end of the remaining section, said sections having interposed thickened walls for spacing said sections apart, and said walls extending and being reduced beyond the overlapped portions of the two sections, the reduced portions of said walls being integral with the opposite sections at opposite ends of the block, as set forth.

1,424,373. ICE-CREAM CABINET. CARL J. NILSSON, Cambridge, Mass. Filed June 24, 1921. Serial No. 480,197. 8 Claims. (Cl. 217—60.)



1. An icecream cabinet comprising a chest having an opening for an icecream container in the top thereof in spaced relation to the sides thereof, a cover for said opening, and means for opening said cover including a pedal at the front of the chest and a connection extending from the pedal to the cover along two sides of the chest, said connection being entirely within the outlines of the chest so as not to interfere with cleaning around and beneath the chest.

1,424,374. AUTOMOBILE SIGNAL. CHARLES H. NOBLE, Bad Axe, Mich. Filed Nov. 9, 1921. Serial No. 514,030. 5 Claims. (Cl. 116—43.)



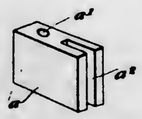
1. In a signal as set forth, the combination with a tubular housing provided with an elongated opening, of a support therefor, a tensioned roller mounted in bearings, of the housing, a pliable signal wound about the roller and having one end attached thereto, and means at the other end of the signal adapted to contact with the wall of the housing when the signal is automatically rewound, thereby limiting the signal in its rewinding movement and closing said opening, thereby precluding foreign matter.

1,424,375. RELEASING HANDLE FOR VESTIBULE CURTAINS. WALTER E. PALT, Chicago, Ill., assignor to Curtain Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 15, 1921. Serial No. 500,785. 14 Claims. (Cl. 105—24.)



1. A curtain handle comprising two complementary handle-forming members pivotally mounted with two of their ends normally in approximate abutment, and spring means acting on the members to offer yielding resistance to pivotal movement of the members upon a force being applied to the ends thereof mentioned in a direction substantially at right angles to a line passing through their pivoting axes.

1,424,376. TOY BUILDING BLOCK. HUGH PURDY, Belfast, Ireland. Filed Mar. 13, 1920. Serial No. 365,575. 1 Claim. (Cl. 46—35.)



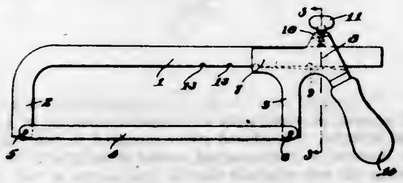
As a new article of manufacture a toy building corner-block comprising a parallel-piped slotted at one end and having a hole therethrough in the same plane as the slot located a distance from the end equal to half the width of the block whereby the block is made available for any corner position in erecting a toy building.

1,424,377. PACKING RING. FREDERICK RAY, Greenwich, Conn. Filed July 14, 1921. Serial No. 484,586. 15 Claims. (Cl. 74—109.)



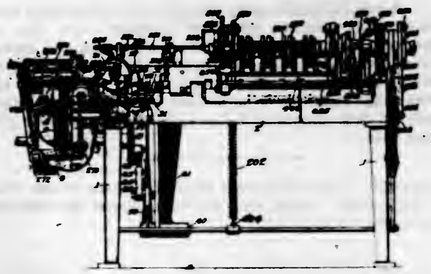
1. A piston ring consisting of two or more split rings each of which exerts uniform outward radial pressure when compressed to their normal diameter, and means extending around the rings to equalize the bending moments in the rings, whereby the rings will exert uniform radial pressure when their diameter becomes greater than normal.

1,424,378. HACK SAW. ALFRED M. REMINGTON, Fitchburg, Mass., assignor to Simonds Manufacturing Company, Fitchburg, Mass., a Corporation of Massachusetts. Filed Apr. 16, 1921. Serial No. 461,776. 6 Claims. (Cl. 145—34.)



6. A hack saw frame comprising a longitudinal bar, a transverse blade-supporting arm on said bar, said arm having an elongate portion recessed to receive said bar and having a bridge spanning the recess, a screw threaded through said bridge to engage said bar whereby said arm is caused to swing upon one end of said elongate portion as a pivot for tensioning the blade, and a handle on said elongate portion for operating the frame.

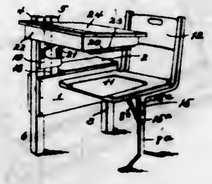
1,424,379. WIRE-LINK-FABRIC MACHINE. ANTHONY RHENSTROM, Kenosha, Wis., and ORLA H. WATKINS, Marshalltown, Iowa, assignors to Henry Richardson, Chicago, Ill. Filed Apr. 6, 1917. Serial No. 160,155. 115 Claims. (Cl. 140—7.)



1. In a wire link fabric machine, the combination of chain-forming mechanism operative to form and directly interloop identical two-ply links, and mechanism serving to simultaneously interloop a plurality of links of one chain with a plurality of links of an adjacent chain.

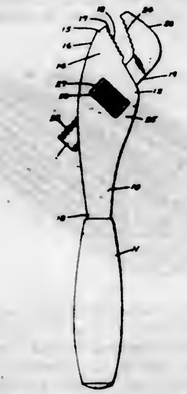
1,424,380. COMBINED DESK AND CHAIR. JOHN PARKER RICHARDS, Tulsa, Okla. Filed Nov. 11, 1920. Serial No. 423,326. 2 Claims. (Cl. 155—12.)

1. The combination with a side member having a plurality of sockets, and an upright secured to said side member, of a bracket secured to said side member and having a leg portion, a chair seat disposed over said bracket and provided with a pin to enter any of said sockets, an arm de-



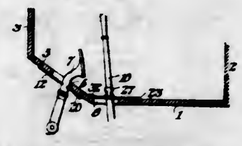
pending from said chair seat and adjustably connected with the leg portion of said bracket, and a desk supported by said upright.

1,424,381. PIPE WRENCH. JOHN RUDY, New Britain, Conn. Filed July 30, 1921. Serial No. 488,525. 1 Claim. (Cl. 81—101.)



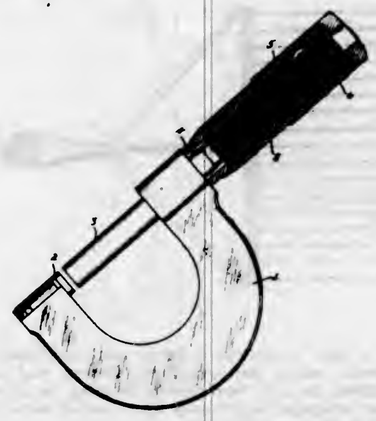
In a pipe wrench, a fixed member having a handle shank, a body, and a jaw arranged in order along an axial line and with the tip of said jaw at one end of said line, a moving member having a jaw for cooperating with the jaw on the fixed member and a stem that is operatively supported by said body and is positioned diagonally across said line, and said members being constructed and arranged so that said axial line is substantially rectilinear and the pipe receiving opening that is defined by said jaws is entirely on one side of said line, with the mouth or entrance portion adjacent said line.

1,424,382. AUTOMOBILE ACCESSORY. THOMAS EDWARD SANDERSON, Woodbury, N. J. Filed June 18, 1921. Serial No. 478,742. 7 Claims. (Cl. 74—81.)



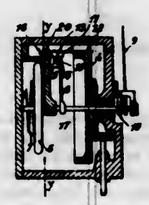
4. A closure for a controlling member opening in a vehicle floor, comprising a shield independent of said floor, and carried by the controlling member extending through said opening.

1,424,383. MICROMETER GAUGE. JOHN A. SCHLEICHER, Saginaw, Mich., assignor to The Lufkin Rule Company, Saginaw, Mich., a Corporation of Michigan. Filed Nov. 21, 1921. Serial No. 516,571. 5 Claims. Cl. 33—164.)



1. In a micrometer gauge, the combination with a frame and a barrel secured thereto, of a spindle extending through said barrel and threadedly engaged to the same, a thimble secured to said spindle and rotatable to longitudinally adjust the same in said barrel and frame, and a sleeve threadedly engaged to said thimble to be normally rotatable therewith but adapted to be rotatably adjusted relative thereto, said sleeve being threadedly engaged to said thimble with the same pitch of thread as the threaded spindle with the barrel.

1,424,384. APPARATUS FOR MEASURING SPEED. AUGUSTIN SEGUIN, Paris, France. Filed May 25, 1920. Serial No. 384,101. 3 Claims. (Cl. 264—21.)



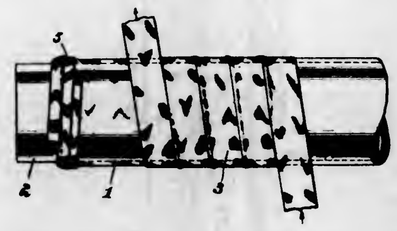
1. An apparatus for the measurement of speeds, comprising a driving movable member (4), means for rotating said driving movable member in a positive direction at a speed in a known ratio to that which it is desired to measure, an antagonistic movable member constituted by a balance wheel, a spiral spring driving directly said antagonistic member in a negative direction at the variable speed determined by the law of free expansion of said spring, a receptive member, indicating means connected to said receptive member, means on the driving member adapted to couple said driving member with the receptive member for rotation in the positive direction, means adapted to connect said driving member with the antagonistic member for driving the latter in a positive direction, means on the antagonistic member for driving the receptive member in a negative direction, means on the antagonistic member for disengaging the receptive member from the driving member, and fixed means for disengaging the antagonistic member from the driving member.

1,424,385. ARTIFICIAL BAIT. WILLIAM A. STOLLEY, Dowagiac, Mich., assignor to James Heddon's Sons, Inc., Dowagiac, Mich., a Corporation of Michigan. Filed Jan. 17, 1921. Serial No. 437,981. 4 Claims. (Cl. 43—46.)



1. An artificial bait comprising an elongated body, a rear hook, and means for so securing said rear hook to said body that the shank of the hook will be prevented from becoming entangled with the securing means, comprising a metallic fastener having a U-shaped portion lying substantially in a vertical plane through the body and located underneath and at the rear end of said body, the rear part of said U-shaped portion being at such an angle that the hook can swing to a position in which the shank is parallel to the axis of the body, the fastening being located so near the rear end of the body that the points of the hook will clear the rear end when the shank of the hook is parallel to the axis of the body.

1,424,386. PROCESS OF FORMING TUBES. ARTHUR WELLINGTON STONER, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 28, 1919. Serial No. 285,740. 15 Claims. (Cl. 18—53.)

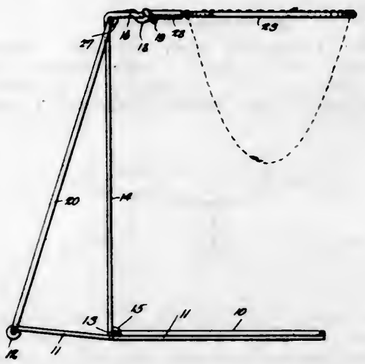


1. The hereindescribed method of manufacturing tubes of vulcanizable material which consists in shaping the tube upon a suitable mandrel, wrapping the same helically with a strip of covering material under tension, removing the wrapping and thereafter vulcanizing the tubes.

1,424,387. COLLAPSIBLE BAG HOLDER. WALTER BRUCE WILLS, Baltimore, Md. Filed Mar. 21, 1922. Serial No. 545,447. 2 Claims. (Cl. 83—26.)

1. A bag-holder comprising a base; a standard composed of a pair of laterally spaced side rods connected by a cross bar at one end and having their other ends pivotally connected to the base, a bag-supporting member having a shank consisting of a forward portion carrying the member and a rear portion consisting of laterally spaced side members having inward bends at their forward ends whereby they are connected to the forward portion of the shank, said side members being pivotally supported by the aforesaid cross bar, and a prop con-

sisting of laterally spaced side rods pivotally connected at one end to the base and having their other ends connected by a cross bar on which the aforesaid forward portion of the shank is adapted to seat to maintain the



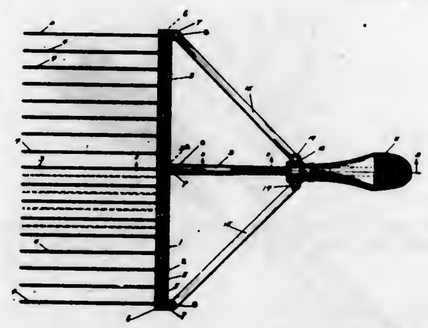
operative position of the said prop having portions thereof near its ends engageable by the aforesaid inward bends of the shank for maintaining the upright position of the standard and the prop.

1,424,388. OVERALLS. ALLAN A. L. WINDERMAN and ROBERT RACHMIL, New York, N. Y. Filed Nov. 22, 1921. Serial No. 516,938. 5 Claims. (Cl. 2—144.)



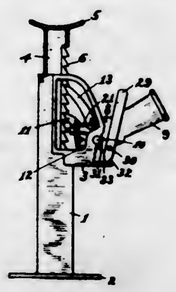
1. In a garment comprising coat and trousers, a pair of similar sections each having a front edge straight throughout the length thereof, a substantially vertical rear edge in the coat portion thereof, a short, substantially horizontal edge at the lower end of said rear vertical edge, and a rear edge in the trouser portion of said section beginning at the end of said horizontal edge and inclined away from said horizontal edge, a seam joining all but the lowermost portions of the rear vertical edges of said sections together, a triangular insert having side edges joined to said lowermost portions of said rear vertical edges, and a lower edge longer than the distance between the lower extremities of said vertical edges, said insert being adapted to extend laterally between the legs of the wearer in the operative position thereof independently of said front edges for providing a loose fit at the crotch of the wearer.

1,424,389. ONE-LICK BREAD CUTTER AND CAKE CUTTER. JOHN WESLEY WYATT, Los Angeles, Calif. Filed June 16, 1921. Serial No. 478,162. 3 Claims. (Cl. 146—12.)



1. A slicer comprising a flexible head, a plurality of adjustably spaced knives mounted thereon, and means for flexing the said head thereby adapting the slicer to cut an elongated article such as a loaf of bread or a round article, such as a cake.

1,424,390. LIFTING JACK. WILLIAM C. YARMOLAITIS, Cleveland, Ohio. Filed July 24, 1920. Serial No. 398,614. 4 Claims. (Cl. 254—111.)

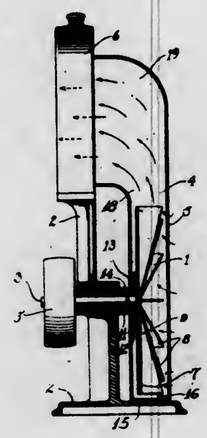


1. In a lifting jack, the combination of a standard, a lift bar movably supported in the standard, a holding pawl pivoted to the standard, an operating lever pivoted to the standard, a working pawl pivoted to the operating lever, springs tending to force the holding pawl and working pawl into engagement with the lift bar, means for forcing the holding pawl and the working pawl alternately out of engagement with the lift bar as the operating lever is moved, and means for moving said means out of action including a lever having a cam adapted to engage said standard for holding said lever in a set position, substantially as described.

1,424,391. FAN. JAMES C. ARMSTRONG, Beloit, Wis. Filed Feb. 3, 1920. Serial No. 356,086. 4 Claims. (Cl. 230—11.)

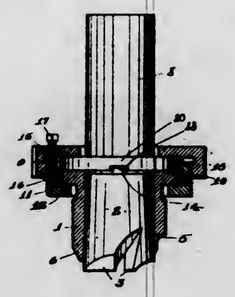
4. A large-capacity, high-speed, low-pressure ventilating fan of small size comprising a housing, in combination with a centrifugal paddle wheel of narrow shape having triangular blades disposed radially and pointing toward the fan axis, said housing including a rim part

and a pair of plates spaced sufficiently to clear said wheel, one of said plates having an axial inlet aperture



nearly equal to the size of said wheel and said rim part having a discharge aperture corresponding substantially therewith in effective size.

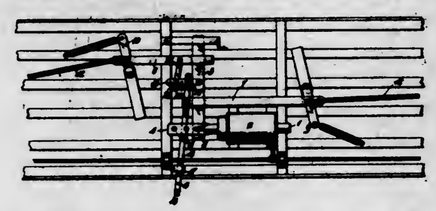
1,424,392. TOOL AND HOLDER THEREFOR. WALTER W. BAKER and FREDERICK W. FRANKLIN, Syracuse, N. Y. Filed May 16, 1919. Serial No. 297,602. 2 Claims. (Cl. 29—103.)



1. The combination of a tool holder comprising a sleeve, and a tool fitting the sleeve and insertable therein from the outer end of the sleeve, the sleeve enclosing the tool and extending to near the lower end thereof, the tool having cutting teeth at its end, and the sleeve terminating near and short of the ends of the cutting teeth, and actuating means coacting with the upper end of the holder, substantially as and for the purpose described.

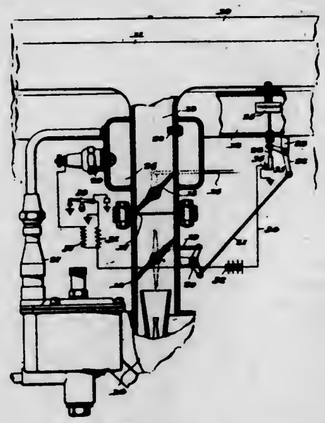
1,424,393. RAILWAY BRAKE. JOHN P. CARLSON, The Dalles, Oreg. Filed July 19, 1921. Serial No. 485,886. 9 Claims. (Cl. 188—197.)

5. In a railway brake, the combination with a brake lever, means for operating the same pivotally connected with the lever intermediate its ends, brake operating arms adapted to be shifted by said lever, and means for adjusting said brake operating arms on said lever to



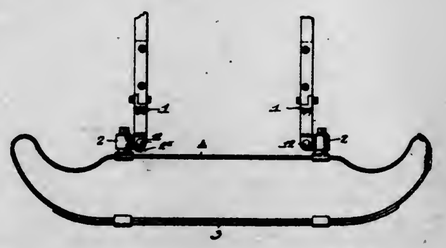
vary the throw of said arms upon the actuation of the lever, said means comprising a manually operated member.

1,424,394. HYDROCARBON MOTOR. HENRY P. DOOLITTLE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 16, 1920. Serial No. 359,026. 10 Claims. (Cl. 123—122.)



1. In a hydrocarbon motor, the combination with a motor having an exhaust conduit, of a combustion chamber adapted to discharge burnt gas through the motor into said conduit, and means acted upon by the heat of said conduit for controlling combustion in said chamber.

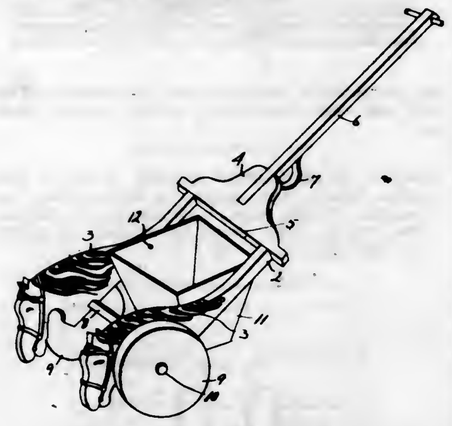
1,424,395. BUMPER-SUPPORTING BRACKET. HARRY C. EVELYN, Chicago, Ill., assignor, by mesne assignments, to Bliss Products Company, a Corporation of Delaware. Filed Nov. 30, 1921. Serial No. 518,777. 6 Claims. (Cl. 293—55.)



2. In a bumper supporting bracket, the combination of an arm adapted for attachment to the frame member

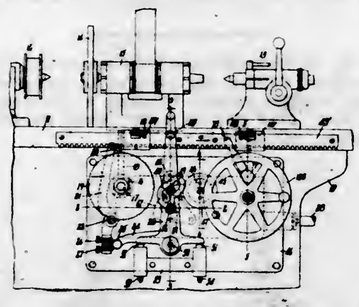
of an automobile, a bumper engaging member pivotally mounted at the free end of said arm, and comprising a body member offset from the pivotal axis, and clips carried by said body member.

1,424,396. WHEELED TOY. MAXIMILIAN N. FAULK, Philadelphia, Pa. Filed Dec. 17, 1920. Serial No. 431,317. 1 Claim. (Cl. 46—48.)



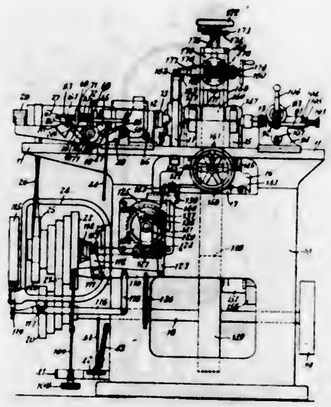
A toy comprising a yoke consisting of side pieces, a brace secured to said side pieces adjacent their outer ends and a cross piece at the opposite ends thereof, the inner edge of said cross piece acting as a hand hold, a handle fixed to said cross piece, a rest attached to said handle, wheels, axles for said wheels carried by the side pieces, said wheels being so positioned relative to the outer ends of the side pieces that said side pieces will engage the surface on which the wheels rest and act as supports when the yoke is in an upright position, a receptacle, means for pivoting said receptacle between the side pieces of the yoke above the center of gravity of said receptacle.

1,424,397. MECHANICAL MOVEMENT. WARREN F. FRASER, Westboro, Mass. Filed Sept. 25, 1919. Serial No. 326,272. 29 Claims. (Cl. 51—232.)



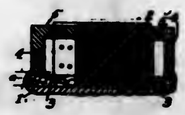
1. An apparatus of the class described having, in combination, a rotary driving member, a reciprocatory driven member co-acting with said driving member and driven thereby, a pin upon which said driving member is mounted, means to impart a rotary motion to said driving member and means to impart a lateral movement to said pin, whereby the reciprocatory movement of said driven member may be controlled.

1,424,398. GRINDER. WARREN F. FRASER, Westboro, Mass. Filed May 8, 1920. Serial No. 379,843. 24 Claims. (Cl. 51—105.)



1. A grinder having, in combination, means to support work, means to rotate said work, a grinding wheel, means to support said grinding wheel, means to bring said work and said grinding wheel into operative engagement with each other, a manually operable member and means connected to said manually operable member adapted to successively prevent the rotation of said work and release the work from operative engagement with its support.

1,424,399. BEATER ENGINE. CHARLES E. GREENE, Bangor, Me. Filed Mar. 5, 1921. Serial No. 449,060. 5 Claims. (Cl. 92—22.)

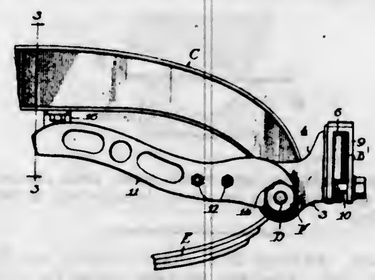


1. Bed plate construction for beater engines comprising a channeled bed and a bed plate, a pair of spaced position defining members of reducible thickness lodged within said bed upon either side of said bed plate and defining the position of said bed plate, and a pair of spaced bed plate fasteners having their outer surfaces normally disposed in the plane of the outer surface of the bed plate and supported upon said position defining members whereby to adjust themselves to new levels of the bed plate as the thickness of said position defining members is reduced, said fastener of a non-wearing material so as to prevent discoloration of the stock.

1,424,400. BUMPER BRACKET. WILLIAM J. GROTENHUIS, Chicago, Ill., assignor, by mesne assignments, to Biflex Products Company, a Corporation of Delaware. Filed Nov. 9, 1921. Serial No. 513,945. 8 Claims. (Cl. 293—55.)

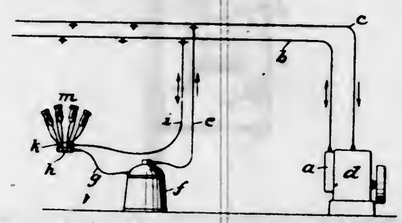
2. An automobile bumper attaching bracket comprising a plate adapted to be clamped to one side of an automobile

frame member by means of the spring bolt thereof, and an arm having detachable connection with said plate.



and said frame member, and provided with a wrench-like extremity adapted to fit the nut of said spring bolt.

1,424,401. MASTER-PULSATOR MECHANISM FOR MILKING MACHINES. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 31, 1921. Serial No. 457,325. 4 Claims. (Cl. 31—99.)



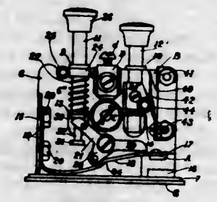
1. In a milking machine, the combination with a milking machine unit comprising teat cups and a secondary pneumatic pulsator adapted to transmit pulsations to the teat cups, a pulsation air pipe line, a primary pneumatic pulsator adapted to transmit pulsations through said air pipe line and thereby control the operation of the secondary pulsator, a source of vacuum, a valve seat provided with a port connected with the pulsation pipe line and opening on the valve seat, a rotary valve turnable on the valve seat and provided with a plurality of ports adapted, in the rotation of the valve, to register successively with the first named ports, and means affording communication between said valve passages and the source of vacuum and a source of pressure respectively, two at least of said ports being each of substantial length so as to maintain the pulsation pipe line in communication with both pressure and vacuum for substantial time intervals.

2. In a milking machine, the combination with a source of vacuum and a pulsation pipe line, of a valve seat member provided with passages connected respectively with the pulsation pipe line and with the source of vacuum, a rotary valve turnable on the valve seat, said passages having ports opening on the valve seat at different distances from the axis of the valve; the valve having an arcuate passage adapted to register with the vacuum port in the valve seat, and a plurality of arcuate passages adapted to register successively with the pulsation port in the valve seat, one of the last named arcuate passages being connected with the first named arcuate passage, and the third arcuate passage being connected with a source of pressure, whereby in the rotation of the valve the pulsation pipe line will be connected alternately with pressure and vacuum.

3. In a milking machine, the combination with a source of vacuum and a pulsation pipe line, of a valve seat member provided with passages connected respectively with the pulsation pipe line and with the source of vacuum, a rotary valve turnable on the valve seat, the valve having a plurality of passages adapted, in the rotation of the valve, to register successively with the pulsation port, there being a third passage in the valve affording communication between one of the first named two passages in the valve and the vacuum port in the valve seat member, the valve having a port connecting the other of the first named two passages in the valve with a source of pressure acting against the exterior of the valve, whereby the absolute pressure on the exterior of the valve tending to hold it on its seat continuously exceeds the absolute pressure to which the working face of the valve is exposed.

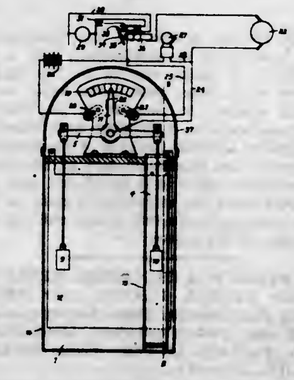
4. A master pulsator for a milking system having a pulsation pipe line and a suction pipe line, comprising a pump connected to the suction pipe line, a valve, driving means connecting the pump and valve for continuously rotating the valve, a flat valve seat for the valve, a port through the seat communicating with the pulsation pipe line, a second port through the valve seat communicating with the pump, arcuate passages of substantial length in the inner face of the valve arranged to successively register with the first port, one of said passages being open to atmosphere when in register with said port, the other passage being in register with the second port when in register with the first port.

1,424,402. CIRCUIT-CONTROLLING MECHANISM. FRANK O. HARTMAN, Mansfield, Ohio, assignor to The Hartman Electrical Manufacturing Company, Mansfield, Ohio, a Corporation of Ohio. Filed Aug. 19, 1918. Serial No. 250,502. 6 Claims. (Cl. 200—5.)



6. In combination, a first switch, a second switch, common means for operating both said switches, separate restoring means for each of said switches, one of the said restoring means being under the control of said common switch operating means, and means associated with said last named switch restoring means adapted to accelerate the rate at which its associated switch is restored.

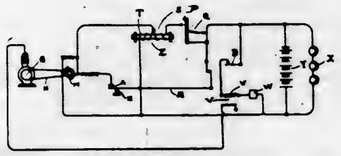
1,424,403. SPECIFIC-GRAVITY DEVICE. FRANK O. HARTMAN and CLARK T. ANDERSON, Mansfield, Ohio. Filed May 24, 1920. Serial No. 383,986. 9 Claims. (Cl. 265—44.)



1. In a specific gravity device for a liquid, a beam pivoted between its ends, a weight attached to one end

of the beam and extending into said liquid, a tube in said liquid containing a second liquid having substantially the same coefficient of expansion as the other liquid, a weight suspended in the second-mentioned liquid and attached to the other end of said beam, whereby changes in buoyancy of the first-mentioned liquid, due to temperature variations, are compensated by changes in buoyancy in the second-mentioned liquid.

1,424,404. POWER SYSTEM. FRANK O. HARTMAN, Mansfield, Ohio, assignor to The Hartman Electrical Manufacturing Company, Mansfield, Ohio, a Corporation of Ohio. Original application filed Aug. 19, 1918, Serial No. 250,502. Divided and this application filed Jan. 6, 1921. Serial No. 435,343. 5 Claims. (Cl. 290—35.)



3. In combination, a gas engine, a motor adapted to crank the gas engine, an ignition circuit for the said engine, a switch controlling the said ignition circuit, a second switch controlling the said motor, common means for operating both said switches, separate restoring means for each of said switches, the motor circuit switch restoring means being under the control of said common switch operating means, and means associated with said last named switch restoring means adapted to accelerate the rate at which its associated switch is restored.

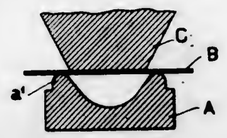
1,424,405. BACK-VIEWING MIRROR FOR AUTOMOBILES. JAMES HAUGHTON, Vancouver, British Columbia, Canada. Filed Apr. 22, 1921. Serial No. 463,461. 2 Claims. (Cl. 45—97.)



1. A back viewing mirror for the windshield of an automobile, comprising the combination with a relatively narrow mirror, of hooks secured to the back thereof adjacent the upper edge, said hooks being downwardly directed and adapted to pass on to the frame of the wind-shield and exercise a resilient hold thereof, and a screw adjustment between the back of the mirror and the adjacent face of the windshield said mirror being of an area to completely cover said hooks and said adjusting means whereby when the mirror is in place on the windshield said hooks and adjusting means will not be visible from the front of the mirror.

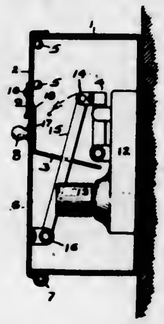
1,424,406. STAMP FOR THIN SHEET-METAL PLATES, SUCH AS DENTAL PLATES AND THE LIKE. FRIEDRICH HAUPTMEYER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Feb. 14, 1921. Serial No. 444,980. 1 Claim. (Cl. 113—44.)

A press for thin plates comprising in combination a concave die member having a raised rim and a ductile stamp tapering towards its front end and having on its front end a cross-sectional area smaller than the area



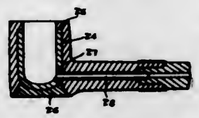
limited by said rim, said ductile stamp being adapted to freely expand around its whole circumference in lateral direction.

1,424,407. SWITCH BOX. TAAVI HELSKE, San Francisco, Calif. Filed May 28, 1918. Serial No. 237,357. 1 Claim. (Cl. 200—50.)



A switch box containing a switch, a cover for said box, comprising a removable portion and a hinged portion, a guard projecting from said removable portion forming thereby an inclosure for said switch, said hinged portion being connected to said switch and adapted to operate the same, frictional means adapted to secure said removable portion to said box and means to lock said hinged portion to said removable portion.

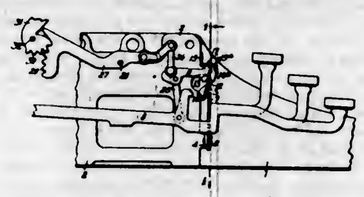
1,424,408. TOBACCO PIPE. WILLIAM W. HESSON, Toronto, Ontario, Canada. Filed July 5, 1919. Serial No. 308,693. 1 Claim. (Cl. 131—12.)



A tobacco pipe, comprising, an outer bowl member formed of two separable portions one of which has a shoulder, threaded together, a removable bowl lining of absorbent material adapted to fit snugly within the outer bowl and to be clamped between the shoulder portion and the other portion of the outer bowl, a mouth piece, and a tubular extension from said mouth piece entering the side wall of said lining at the bottom.

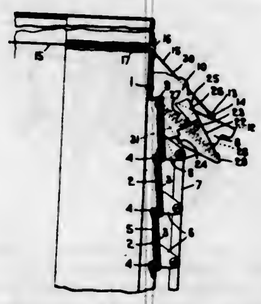
1,424,409. TYPEWRITING MACHINE. JOSEPH B. HOLDEN, Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 25, 1922. Serial No. 531,649. 12 Claims. (Cl. 197—186.)

1. In a typewriting or like machine, the combination of key controlled levers, a fulcrum member on which said levers are fulcrumed and detachably mounted, a separately detachable keeper plate co-operative with said levers to prevent their detachment from the fulcrum



member, and means substantially mid-way in the length of said keeper plate for rigidly though detachably connecting it to said fulcrum member.

1,424,410. REMOTE-CONTROL MECHANISM. CHARLES F. HOPEWELL, Watertown, Mass., assignor to Hopewell Brothers, Watertown, Mass., a Copartnership composed of Charles F. Hopewell and Helen C. Hopewell. Filed Sept. 8, 1920. Serial No. 408,962. 9 Claims. (Cl. 268—10.)



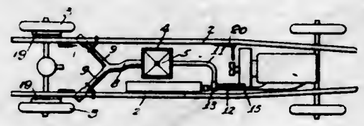
1. A remote control mechanism for a device under tension comprising a stationary ratchet, an actuator, a pawl carried by said actuator, engaging said ratchet, operable by the movement of said actuator in one direction to lock said device at successive steps throughout a predetermined range of movement and means operable upon movement therebeyond to release and to withhold said actuator from engagement with said ratchet and permit the device to return toward original position and means for restoring said pawl into engagement with said ratchet during the final portion of said returning movement.

1,424,411. METHOD FOR RECOVERING WASTE PAPER. THOMAS JESPERSEN, Neenah, Wis., assignor, by mesne assignments, to Lincoln Trust Company, New York, N. Y., a Corporation of New York. Filed Dec. 15, 1916, Serial No. 137,131. Renewed Dec. 22, 1921. Serial No. 524,296. 2 Claims. (Cl. 92—3.)

1. The process of removing printer's ink containing a mineral oil vehicle from waste paper stock which comprises the step of treating said stock with sodium silicate solution, substantially as and for the purpose described.

1,424,412. AUTOMOBILE. FRANK E. JOHNSON, Chicago, Ill. Filed Oct. 24, 1914, Serial No. 868,378. Renewed Dec. 13, 1920. Serial No. 430,557. 4 Claims. (Cl. 291—19.)

1. The combination with an automobile of a controlling device comprising a sand receptacle, a discharge therefor, a drying chamber into which said discharge projects, the end of said discharge being open and being located intermediate the top and bottom of said drying receptacle so that as the sand is discharged into the drying receptacle, the angle of repose thereof limits the amount of sand entering the drying receptacle to an amount that only partially fills the chamber so that there is an air space in said chamber, pipes leading from said drying



chamber to the driving wheels of the automobile, and a connection between said drying chamber and the exhaust pipe of the engine and means for controlling said latter connection whereby the sand may be dried and forced under the wheels by the exhaust gases from the engine.

1,424,413. FAN-BELT PULLEY FOR INTERNAL-COMBUSTION MOTORS. ALBERT W. JONES, Wichita, Kans. Filed Sept. 6, 1921. Serial No. 498,629. 2 Claims. (Cl. 64—18.)

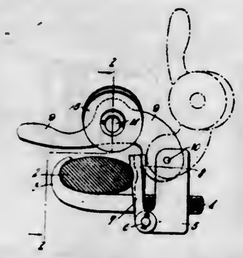


1. The combination, with a regular pulley, of a split, annular pulley provided with an external thread and with a groove for a round belt; and an internally threaded clamp-ring embracing the threaded periphery of said split pulley.

1,424,414. PAINT COMPOSITION. KARL BARRE LAMB, New York, N. Y., assignor to The American Cotton Oil Company, a Corporation of New Jersey. Filed Feb. 2, 1922. Serial No. 538,554. 6 Claims. (Cl. 134—60.)

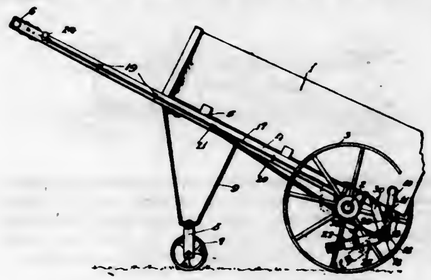
4. A paint composition comprising a paint vehicle, a composite black pigment resulting from the carbonization of spent fuller's earth under conditions to develop an intense black color, other black pigments, and a drier.

1,424,415. UNDERCUTTING-SAW SUPPORT. ROBERT LARSON, Vancouver Island, British Columbia, Canada. Filed Oct. 27, 1921. Serial No. 510,860. 6 Claims. (Cl. 143—163.)



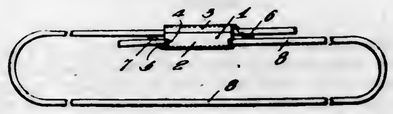
1. A log undercutting saw support, comprising a clamp adapted for removable attachment to the handle of an axe, a lever mounted on the clamp member and by which it is secured on the axe handle, a stud secured to and projecting from the lever, and a small grooved sheave rotatably mounted on the stud.

1,424,416. STREET MARKER. AUGUST LIPAN and JOSEPH MANGIARACINA, New Orleans, La. Filed July 27, 1921. Serial No. 487,949. 10 Claims. (Cl. 91—30.)



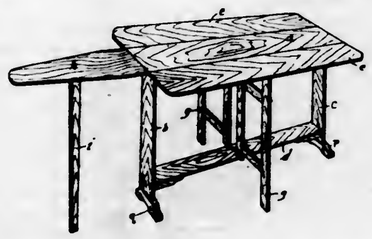
1. In a machine of the class described, a reservoir supported for travel, a liquid applying medium supported for movement into and out of operative relation to the surface over which the machine is propelled, and means for conducting liquid from the reservoir to the said medium.

1,424,417. BELT BUCKLE. ANTON MAN, New Haven, Conn. Filed Aug. 4, 1921. Serial No. 489,814. 2 Claims. (Cl. 24—186.)



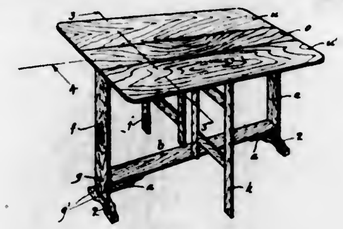
1. A buckle comprising a comparatively flat open-ended sheet metal sleeve adapted to receive overlapping strap ends, one end of the back wall of said sleeve and the other end of the front wall thereof each having an integral tongue, said tongues being adapted for reception in openings in the strap ends and being extended obliquely inward from said walls with their free ends spaced outwardly in a longitudinal direction from the ends of the sleeve.

1,424,418. COMBINED KITCHEN AND IRONING TABLE. JAMES A. MALARKEY, Portland, Oreg. Filed Feb. 14, 1921. Serial No. 444,691. 1 Claim. (Cl. 45—17.)



In a combined table and ironing board, the combination of a central portion comprising end standards, one of which is provided at its upper end with a recess, a brace connecting the lower portion of the standards, a top of greater transverse width than the transverse width of the standards to provide overhanging portions, spaced cleats on the underside of the top adjacent the recess, the space formed between the cleats communicating with and forming a continuation of the recess, a leaf hinged to each overhanging portion, foldable legs pivotally mounted between the brace and the top to support the leaves when extended, an ironing board having one end equal in width to the width of the top and hinged to the latter adjacent the standard having the recess, a leg having a horizontal extension at its upper end, said extension fitting in the recess and spaced between the cleats and adapted to be withdrawn for the leg to support the ironing board when in use, said leg being housed in the space formed by the ironing board when the latter is not in use, the table top and the adjacent standard, and a pin in the extension to limit the outward movement of the leg, whereby when the leaves are folded the central portion of the table and the ironing board form a continuous operating surface of substantially the same width, or when said leaves are supported by their legs the operating surface beyond the ironing board is of greater width than the latter.

1,424,419. KNOCKDOWN FOLDING TABLE. JAMES A. MALARKEY, Portland, Oreg. Filed Feb. 14, 1921. Serial No. 444,692. 1 Claim. (Cl. 45—116.)

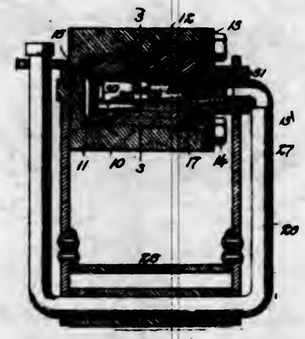


In a folding table, the combination of a central portion comprising end standards formed on their inner surfaces near the bottom with transverse grooves with intersecting perforations, a brace having intermediate oppositely disposed openings near the edges, said brace being equal in width to the width of the standards and fitted in the transverse grooves, fastening elements extending through the perforations and into the ends of the brace, parallel cleats secured to the under side of and at the corners of the brace, fastening means extending through the standards and engaging the ends of the cleats, the cleats being elongated and extended inwardly toward the center of the brace, a top extending across the upper ends of the standards and of greater transverse width than the latter to provide overhanging portions, said top having oppositely disposed openings in its under side in alignment with the openings in the brace, a leaf hinged to each of the overhanging portions, frames for supporting the leaves, each frame comprising an outer vertical leg equal in length to the length of the standards, an inner leg equal in length to the distance between the under side of the top and the top surface of the brace, braces connecting the legs of each frame, and studs extending from the top and bottom of the short leg to engage the openings in the top and brace, whereby when the leaves are in folded position the frames are adapted to be folded in the spaces formed by the overhanging portions of the top and said leaves.

1,424,420. VALVE MECHANISM FOR AUTOMATIC TRAIN-CONTROL APPARATUS. ROBERT L. MILLER, Spokane, Wash. Filed Mar. 16, 1922. Serial No. 544,146. 11 Claims. (Cl. 246—190.)

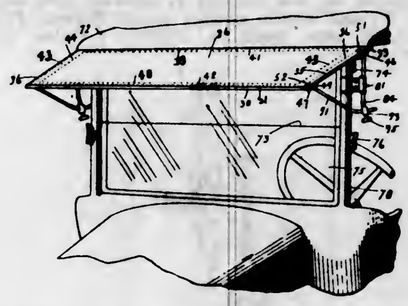
1. In automatic train control apparatus, a valve mechanism adapted to be located in the train line between the usual brake actuating means and the ordinary engineer's valve for automatically effecting a reduction in train line pressure, said mechanism including a rotatable valve directly operable to control the flow of fluid

in the train line, an angularly movable shoe including a hollow member subject to train line pressure and operable to rotate said valve, and means operable in all angular



positions of said shoe when fluid pressure is exhausted therefrom to automatically cut off communication between the fluid pressure pipe and the train line.

1,424,421. CANOPY FOR AUTOMOBILES. ARTHUR W. MUELLER, Cincinnati, Ohio. Filed Apr. 5, 1920. Serial No. 371,425. 4 Claims. (Cl. 296—95.)



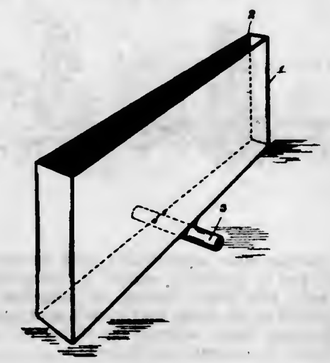
1. In a canopy for automobiles, the combination of an upper rod, a lower rod, a cross-bar at each end of said rods adjustable lengthwise of said rods for adjustably connecting said rods, each of said cross-bars provided with bearing-portions in which said rods are received, a cover provided with channels in which said rods and said cross-bars are located, and clamps outside said channels, said clamps provided with bearing-portions complemental to said first-named bearing-portions for clamping said cross-bars at selective points lengthwise of said rods to the ends of said rods.

1,424,422. FLOOR STRUCTURE. VALSY E. ROWLAND, Indianapolis, Ind. Filed Jan. 3, 1922. Serial No. 526,650. 2 Claims. (Cl. 72—66.)



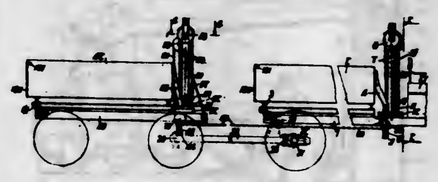
1. A floor structure comprising blocks laid in rows and spaced at their ends, a layer of plastic material on said blocks, said material also filling the spaces between the ends of the blocks to form floor joists, and spacing elements between the blocks at the bottom thereof, the ends of the blocks having transverse grooves in which the ends of said elements seat and are supported, and said block ends having other transverse grooves entered by the material forming the joists, said ends of the spacing elements filling only portions of the first mentioned grooves to permit the joist material to enter said grooves above said ends of the spacing elements.

1,424,423. DEVELOPING TANK. PLINY W. SMITH, Rochester, N. Y. Filed June 20, 1921. Serial No. 478,917. 2 Claims. (Cl. 259—56.)



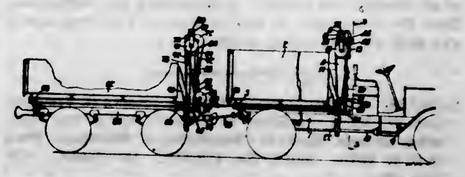
1. A relatively long and narrow developing tank having a rectangular bottom, a rocker attached to said bottom beneath and centrally thereof and transversely thereto, said rocker being adapted to rest on a plane surface and support the tank in an upright position while it rocks thereon.

1,424,424. TRAILER-DUMPING MECHANISM. LOUIS M. SPENCER, Highland Park, Mich. Filed Dec. 15, 1916. Serial No. 137,093. 38 Claims. (Cl. 298—22.)



1. In combination, a pulling vehicle having a tiltable body and a propelling engine, a pulled vehicle having a tiltable body, and means whereby the propelling engine may be utilized to tilt either body at will.

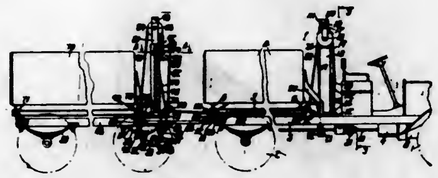
1,424,425. CABLE-HAULING AND BODY-DUMPING MECHANISM. LOUIS M. SPENCER, Highland Park, Mich. Filed Aug. 29, 1918. Serial No. 251,907. 24 Claims. (Cl. 298—22.)



1. In mechanism of the class described, a guide, a member reciprocable therein, supporting means, a pull-

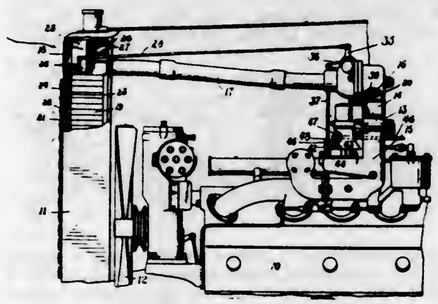
ing element adapted to be actuated by the reciprocable member and also adapted to rest on the supporting means, said supporting means being shiftable to connect the pulling element to the reciprocable member and to disconnect it therefrom at will.

1,424,426. TRAILER-DUMPING MECHANISM. LOUIS M. SPENCER, Highland Park, Mich. Filed June 25, 1917, Serial No. 176,648. Renewed May 18, 1922. Serial No. 562,038. 20 Claims. (Cl. 298—22.)



1. A roadway train comprising a truck having a tiltable body and a propelling engine, a trailer having a tiltable body, and means whereby the propelling engine may be utilized to tilt either body at will, said last named means including means whereby the tilting of the body of the trailer is automatically limited.

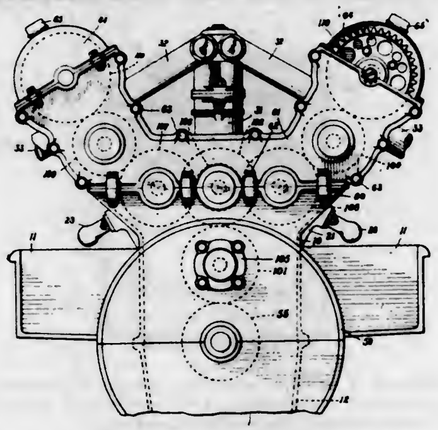
1,424,427. MOTOR VEHICLE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 17, 1916. Serial No. 109,854. 7 Claims. Cl. 123—178.)



1. In a motor vehicle, in combination, a motor, a carburetor having means for adjusting the richness of the mixture, a radiator, water connections from the motor to the radiator, means for controlling the flow of air through the radiator, a thermostat, and connections from the thermostat to said carburetor adjusting means and said air controlling means.

1,424,428. HYDROCARBON MOTOR. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 4, 1916. Serial No. 123,716. 13 Claims. (Cl. 123—55.)

1. In a hydrocarbon motor, in combination, a crank case, cylinder blocks mounted thereon in V relation, a gear casing at one end of the crank case extending upwardly to adjacent the top of both sets of said cylin-



ders, and a cam shaft casing mounted on top of each of said cylinder blocks and connected to the gear casing.

1,424,429. MEASURING APPARATUS. CONSTANTIN WAGNER, Jr., and GODFREY P. SCHMIDT, New York, N. Y.; said Schmidt assignor to said Wagner. Filed Oct. 23, 1919. Serial No. 332,582. 1 Claim. (Cl. 73—51.)

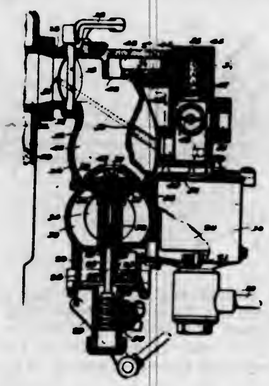


In an apparatus of the class described, a standard with a vertically adjustable table supported thereby, a fixed indicator upon said standard, and another indicator adjustable thereupon, said standard comprising a channel with perforations through the yoke thereof, and said adjustable indicator and a table each being provided with a housing, and a rotatable sprocket in each housing for engaging said perforations for raising and lowering said table and adjustable indicator.

1,424,430. HYDROCARBON MOTOR. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 29, 1919. Serial No. 348,053. 13 Claims. (Cl. 123—122.)

1. In a hydrocarbon motor, the combination with the motor cylinder, of a carburetor and heater device com-

prising an elbow having a substantially horizontal part for connection to the motor cylinder and a substantially vertical part for connection to the carburetor, a car-



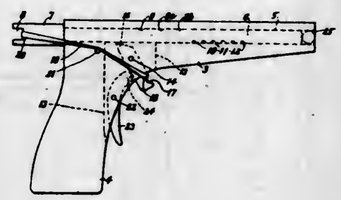
buretor connected to said vertical part of the elbow, a throttle valve arranged in the horizontal part of the elbow, and a combustion heater having its inlet opening arranged at the bend in the elbow.

1,424,431. WINDOW-SCREEN HANGER. CHARLEY D. ADAMS, Dallas, Tex. Filed Jan. 28, 1922. Serial No. 531,152. 4 Claims. (Cl. 156—14.)

4. The combination of a window frame having a blind stop, a screen frame fitting in the window frame and contacting with the blind stop, the upper inner edge of said screen frame being rounded to provide a hinge bearing surface, hooks depending from the blind stop at each side of the top of the window frame, a pair of coiled extension openings each having its upper end engaged with one of the stop hooks, screen eyes mounted in the screen frame, screen hooks pivoted to the lower ends of the springs and engaging the screw eyes, and keepers straddling the upper ends of the springs and fastened to the screen frame for holding the upper end of the screen frame in contact with the blind stop, when the screen is closed.

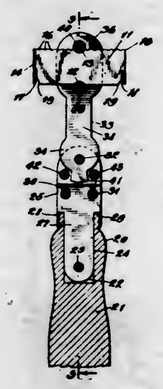
1,424,432. TOY PISTOL. OLIN G. AMLEE, St. Paul, Minn. Filed Oct. 31, 1921. Serial No. 511,576. 2 Claims. (Cl. 124—14.)

1. In a toy gun, a barrel having a stock at one end and a bore throughout its entire length, a downward mortise in the stock registering with the bore, an ejector rod slidable in the bore and having a notched head at its rear end and the under side of its front portion provided with a series of notches, an inclined trip lever fulcrumed in the mortise and having its upper end arranged to engage the notched under side of the ejector rod, the lower end of the trip lever projecting out below the barrel and having its projecting end engaged by an elastic band,



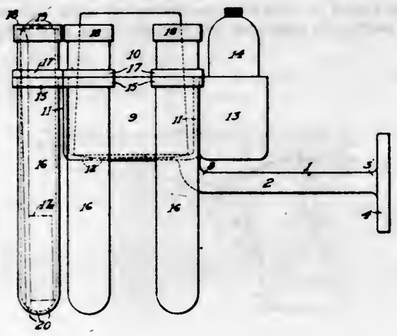
said band being passed rearwardly from the trip lever to engage the notched head of the ejector rod and being always in tension tending to keep the trip lever engaged and to push the ejector rod forward simultaneously, said ejector rod having in its upper side notches becoming visible rearward of the barrel when the rod is more or less retracted, and a trigger arranged to disengage the trip lever from the ejector rod, substantially as shown and described.

1,424,433. TIRE TRIMMER. JOSEPH M. ANGELETTI, New York, N. Y. Filed Oct. 10, 1919, Serial No. 329,653. Renewed Dec. 19, 1921. Serial No. 523,589. 4 Claims. (Cl. 30—20.)



1. In a tire trimmer, the combination with a holder having a forked head with a handle, of two detachably connected clamping plates pivoted between the forks of the head for being swung to angular positions, and a blade having a substantially rectangular body part removably mounted between the clamping plates, said blade having oppositely disposed angularly bent ends with substantially V-shaped notches having cutting edges at the intersection of the body part with the bent ends of the blade.

1,424,434. HOLDER FOR TOOTH-CLEANING ARTICLES. HERMAN AUBUDEL, New York, N. Y. Filed Mar. 22, 1919. Serial No. 284,247. 2 Claims. (Cl. 248—63.)



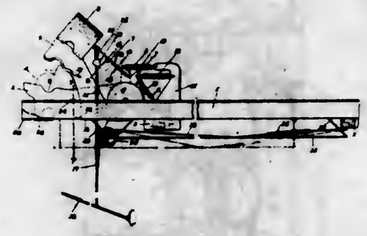
1. A holder for tooth cleaning articles having the combination of a bracket, tumbler retaining means carried by said bracket including an annular wall adapted to surround the side of the tumbler with means for supporting the tumbler at the lower end of said wall, a plurality of rings depending from said wall being adapted for the retention of individual completely enclosing tooth brush receptacles, and individual tooth brush receptacles having means to engage said rings and being removable from said means.

1,424,435. PITMAN END. REUBEN C. BAKER, Coalinga, Calif., assignor to Baker Casing Shoe Company, Coalinga, Calif., a Corporation of California. Filed Apr. 21, 1920. Serial No. 375,422. 5 Claims. (Cl. 287—93.)



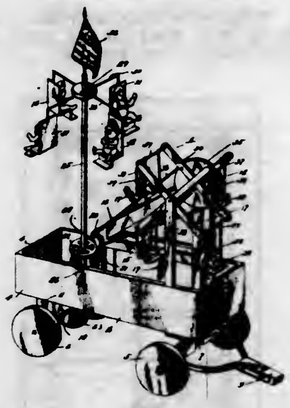
1. A bearing structure comprising a bearing block having a bearing seat therein; guides extending from each side of said seat; a follower block slidably positioned between said guides and forming a bearing cap for the crank pin seat in the bearing block; a lock bolt journaled in the bearing block and having a cam portion extending within the follower adapted to retain the bearing cap and the bearing seat in a desired relative position or instantly separate them.

1,424,436. FRUIT-PITTING MACHINE. LEWIS R. BARNES, Fresno, Calif. Filed Aug. 1, 1921. Serial No. 488,778. 16 Claims. (Cl. 146—6.)



1. A fruit cutting and pitting machine including a pair of co-operating knives, the fruit being placed between said knives, channels on each side of the knives adapted to receive the cut fruit thereon, and means for causing the cut halves to rest cut side up on said channels.

1,424,437. FIGURE WHEELED TOY. JOHN W. BARNHART, Columbus, Ohio. Filed July 18, 1921. Serial No. 485,504. 2 Claims. (Cl. 46—45.)

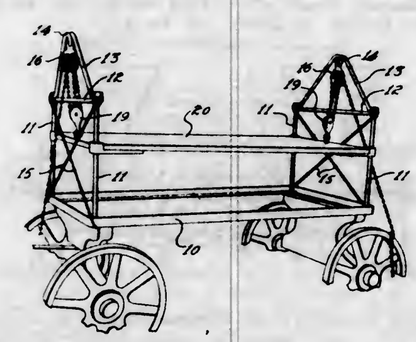


1. A toy comprising a body, supporting wheels, an axle rotatable with said wheels, a triangular diving frame carried by said body, and having one of its sides arranged perpendicular with respect to the bottom of the body, rollers journaled at the corners of said frame, an endless belt movable around said rollers, a driving connection between one of said shafts and said rollers whereby the belt will be operated upon movement on the part of the vehicle, and a plurality of figures hinged to said belt and capable of extending parallel therewith when the belt is moving along the perpendicular side of the frame and to extend at right angles to said belt when the latter is moving in an angular upward direction.

1,424,438. TRUCK. JAMES B. BAUM, Grand Junction, Colo. Filed Feb. 19, 1921. Serial No. 446,318. 1 Claim. (Cl. 254—4.)

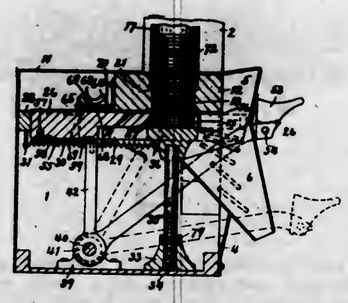
In a truck, a frame, standards rising from the corners of the frame, cross pieces connecting the standards at each end of the frame, said cross pieces being apertured to receive said standards, a floor slidably mounted on said standards, a wire frame substantially of inverted V-shaped formation, reposing upon each of said cross pieces, each

frame terminating to provide eyes receiving the upper ends of said standards, an intermediate loop formed at the apex of each frame, a pulley suspended from each



loop, and flexible elements trained over said pulleys and connected with said floor, whereby the latter may be moved toward and away from the frame.

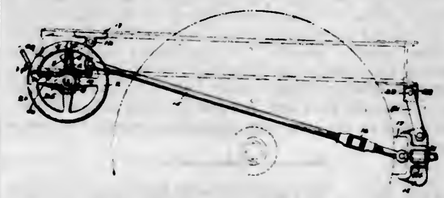
1,424,439. CHANGE-MAKING MACHINE. SAMUEL J. BELL, Springfield, Mass. Filed Sept. 15, 1920. Serial No. 410,462. 13 Claims. (Cl. 133—4.)



1. In a change-making machine, magazines for columns of coins, delivery means for coins from one of said magazines, delivery means for coins from the others of said magazines, the points of discharge of such delivery means being remote from each other, movable means in operative relation to each of said magazines, actuating means for the means associated with certain of said magazines, the movable means associated with one of said magazines being without actuating means, and connecting means between said movable means whereby, when any of said actuating means are operated, coins are discharged from one of the magazines the movable means associated with which are provided with actuating means, and the magazine the movable means for which are not provided with actuating means, simultaneously, said coins from said two magazines being delivered at remote points.

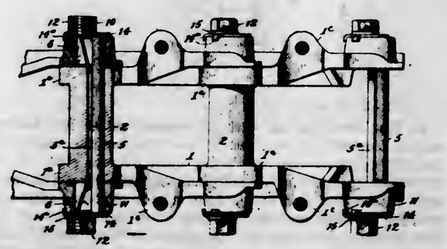
1,424,440. BRAKE MECHANISM. ALEXANDER M. BELLONY, U. S. Army. Filed May 7, 1919. Serial No. 295,466. 2 Claims. (Cl. 74—119.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A control mechanism comprising a rotatable member including a circular hand-grip, and an auxiliary grip pivoted to the hand-grip, said auxiliary grip being operable to positions coincident with or at right angles to the



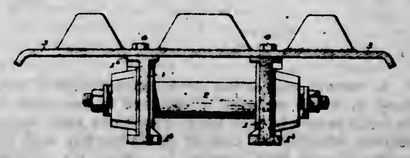
plane of said rotatable member, and spring clips attached to said member and engageable with the auxiliary grip to secure the latter in either of its positions.

1,424,441. SPROCKET CHAIN. CLARENCE LEO BEST, Elmhurst, Calif., assignor to C. L. Best Gas Traction Company, San Leandro, Calif., a Corporation of California. Filed July 16, 1920. Serial No. 396,818. 12 Claims. (Cl. 74—32.)



1. In a sprocket chain, link members, means for hinging adjacent link members together comprising a pair of cooperating transversely extending bearing members, one on each link, the bearing member of one link being formed as a separate part and provided at one end with a flat side face, and the link having a socket opening in which said end portion of the bearing member seats, the wall of the socket opening having an inclined face portion, a wedge member extending into the socket opening between the wall thereof and the flat face of the end portion of the bearing member, said wedge member having an inclined face to cooperate with the inclined face portion in the wall of the socket, and adjusting means for said wedge member.

1,424,442. SPROCKET CHAIN. CLARENCE LEO BEST, Elmhurst, Calif., assignor to C. L. Best Gas Traction Company, San Leandro, Calif., a Corporation of California. Filed July 16, 1920. Serial No. 396,819. 4 Claims. (Cl. 74—32.)



3. In a sprocket chain, link members, means for hinging adjacent link members together comprising a pair of

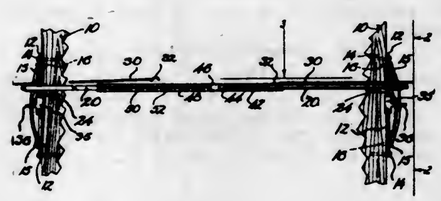
cooperating transversely extending bearing members, one on each link, the bearing member of one link being formed as a separate part, and the link having a socket opening in which an end portion of the bearing member seats, a wedge member extending transversely of the link member in the socket opening between a wall thereof and a wall of the bearing member for adjustment longitudinally thereof, and means for adjusting the wedge member including a threaded socket in one end of the bearing member, a threaded stem part adjustably seated in said socket, and a nut on the stem part adapted to engage the wedge member.

1,424,443. EXTENSION FOR CONDUIT OUTLET BOXES. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed June 21, 1918. Serial No. 241,223. 3 Claims. (Cl. 247—31.)



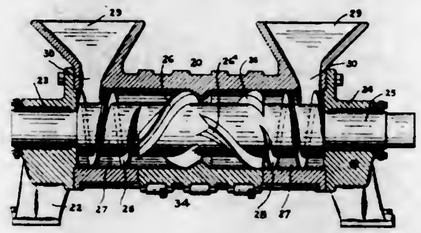
1. The combination with a conduit outlet box having means formed with a passage for receiving the end of an electric conduit, the box being open at one side, of an extension comprising a section mountable upon the open side of the box and being open at its opposite side and another section mountable upon such open side of the first-mentioned section, the extension having a curved neck portion extending at an angle to the axis of the conduit connection of the box and the plane of division between the sections extending through the curved neck portion where it joins the extension, means for securing the first mentioned section to the box, and means for securing the sections together, substantially as and for the purpose described.

1,424,444. ADJUSTABLE CURTAIN ROD. ISRAEL BLOOM, Denver, Colo. Filed Feb. 21, 1921. Serial No. 446,559. 5 Claims. (Cl. 156—19.)



4. A curtain supporting device comprising a rod, a bracket in which each end of said rod is journaled, said ends being reversely bent where they enter said brackets, a ratchet mounted on each of said reversely bent ends, a spring dog on each bracket to engage the respective ratchet, and a spring mounted upon each reversely bent end and engaging said rod and the respective bracket to urge the ratchet against the dog.

1,424,445. MACHINE FOR MIXING OR MASTICATING RUBBER AND LIKE MATERIALS. DAVID REES BOWEN, Ansonia, and CARL FREDERIC SCHNUCK, New Haven, Conn., assignors to Farrel Foundry & Machine Company, Ansonia, Conn. Filed Oct. 29, 1920. Serial No. 420,390. 21 Claims. (Cl. 18—2.)



1. In a machine of the character described, a working chamber, a rotor therein for working the material back and forth, and means for forcing the material positively into the working chamber at the respective ends.

1,424,446. EPICYCLIC-POWER TRANSMISSION. LAWRENCE R. BUCKENDALE, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Oct. 14, 1919. Serial No. 330,675. 1 Claim. (Cl. 74—34.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



A power transmission having a drive shaft, a primary driven shaft and secondary driven shafts, means for driving the primary driven shaft in either direction, and plural epicyclic transmission mechanisms, one having its orbit gear mounted for rotation with the primary driven shaft, and the other having its sun pinion mounted for operation with the primary driven shaft, and brakes associated with said mechanism operable to hold parts of the mechanism stationary to transfer variable speeds from the primary to the secondary driven shaft.

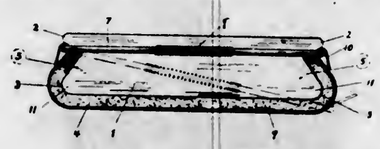
1,424,447. PROCESS OF RECOVERING VALUABLE COMPONENTS IN A LIQUID PHASE. GEORGE B. BURNHAM, Glendale, Calif. Filed Jan. 8, 1920. Serial No. 350,158. 6 Claims. (Cl. 23—22.)

5. The process of recovering borax and another salt saturated in a liquid containing the same, which consists in causing a state of supersaturation with the borax and causing a deposit of the other salt; removing the liquid from deposited salt, and causing the borax to be deposited from the removed liquid.

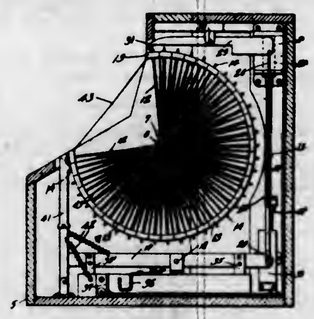
1,424,448. POLISHER. GEORGE G. BUSH, Bristol, Conn. Filed May 20, 1921. Serial No. 471,063. 3 Claims. (Cl. 15—231.)

1. In a polisher or the like, a base, a removable rubbing element thereon, and a clamp having end portions

clamping said rubbing element to said base, said end portions being connected by coiled springs which extend along the sides of said base in an exposed position, whereby said springs afford roughened surfaces which can be grasped by the hand of the user when using said polisher; substantially as described.

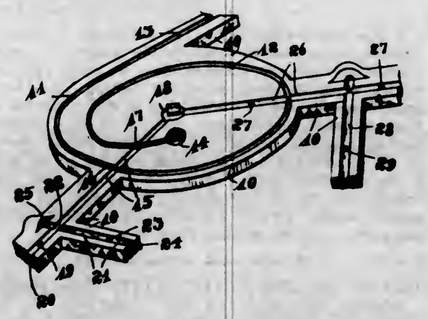


1,424,449. ROTARY ADVERTISING DEVICE. LUCIUS H. CAMMACK and HENRY A. BROWN, Huntington, W. Va. Filed Jan. 4, 1922. Serial No. 526,906. 3 Claims. (Cl. 40—54.)



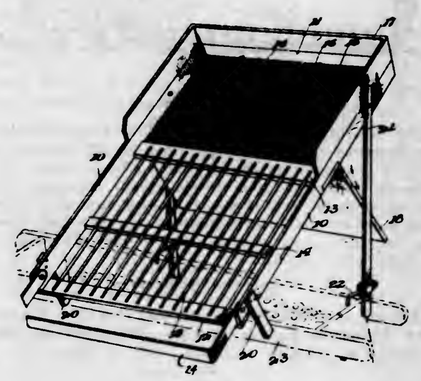
1. In a device of the character described, a housing, a shaft supported in the housing, a plurality of card supporting frames movable on the shaft, each of said frames including a pair of legs, a bar supported by the legs and carrying a keeper, pivoted fingers having connections with the keepers to release the frames at predetermined intervals, electrically controlled means for operating the fingers, and cards carried by the frames.

1,424,450. TOY. IRENE M. CHILDS, Los Angeles, Calif., assignor of one-half to Ella M. Shute, Los Angeles, Calif. Filed June 13, 1921. Serial No. 477,156. 4 Claims. (Cl. 46—61.)



1. In a toy, in combination with traveling members, a base member forming guiding means for the said traveling members, a certain portion of the guiding means being of a continuous form terminating in a certain goal, another portion of the guiding means intersecting the first-named portion at a point before the goal, and extending to a point distant and separate from the first-named portion and goal, and another portion of the guiding means intersecting the second-named portion at a point before the intersection of the first two portions and extending to a point distinct from the other portions.

1,424,451. COMBINED SAND AND GRAVEL SCREEN. ORLANDO C. CRANDALL, Stanwood, Mich. Filed Feb. 3, 1920. Serial No. 355,936. 1 Claim. (Cl. 83—56.)



A screening device comprising a frame having a screening surface, stationary legs at the lower end of the frame for supporting the same, legs pivoted to the upper portion of the frame at the opposite sides thereof and swingingly adjustable with relation thereto, and support clamping members longitudinally slidably adjustable upon the lower ends of said last-mentioned legs, and hook-engaging members carried by said support clamping members and projecting at an angle to the respective legs.

1,424,452. SELF-BAILING SCOW. HARRIS T. DUNBAR, Buffalo, N. Y. Filed May 14, 1921. Serial No. 469,431. 10 Claims. (Cl. 114—183.)

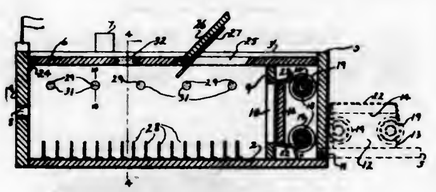


1. A scow comprising a hollow hull provided at one end with a trap which is elevated above the bottom of the hull while its other end is provided with a lower chamber extending down to the bottom of the hull, and a valved conduit leading from said lower chamber to said elevated trap.

1,424,453. TOY. JOSEPH FARR, St. Catharines, Ontario, Canada. Filed Apr. 18, 1921. Serial No. 462,140. 5 Claims. (Cl. 46—40.)

1. A toy of the class described comprising an enclosed rectangular box, having a peep hole in the front end thereof, and a removable rear end, an inwardly

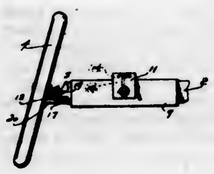
extending bracket carried by the rear end, a pair of transversely disposed rollers journalled in the bracket and situated adjacent to the top and bottom of the box, a flexible curtain having its ends connected respectively to the upper and lower rollers, the inner face of the bracket forming a guide over which the portion of the curtain extending between the rollers passes, the box having orifices which register with the ends of the rollers



when the rear end of the box is in the normal position, an operating key adapted to extend through said orifices and to engage either of the rollers whereby said rollers may be rotated and the curtain wound from one roller to the other, the roof of the box having an orifice therein and a reflector adjustably mounted in said orifice whereby the light from outside may be reflected onto the curtain within the box

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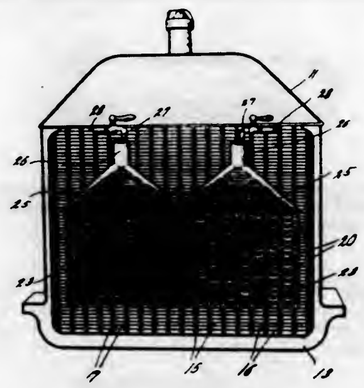
1,424,454. AUTOMOBILE LOCKING DEVICE. WILLIAM P. FAULKNER, Kansas City, Mo. Filed Sept. 27, 1920. Serial No. 413,044. 1 Claim. (Cl. 70—90.)



The combination with the front axle, the steering knuckle, and the front bearing wheel of an automobile, of a stop member demountably secured on the axle and arranged thereon to hold the bearing wheel deflected, said stop member comprising a channel plate having its vertical side inset longitudinally to thereby form a boss adapted for occupying the channel in the axle and permit the upper and lower sides of the channel plate to receive between them and the boss the axle, the outer end of the boss having an extension extending to and against the bearing wheel when the latter is deflected, the outer end of the upper side of the channel plate having a horizontally extending hook adapted for catching the pivot on the steering knuckle, a locking device mounted on the upper side of the channel plate and projecting therefrom, and a locking bar pivotally mounted on the lower side of the channel plate and having a hole in its free end portion adapted for receiving the bolt of the locking device.

1,424,455. AUTOMOBILE RADIATOR. EDMUND J. FEENY, Muncie, Ind. Filed Sept. 24, 1917. Serial No. 192,846. 9 Claims. (Cl. 251—125.)

3. A cooling radiator for internal combustion engines, said radiator having water passages which carry the cooling water of the engine and air passages which have metallic heat-radiating surfaces receiving heat from the water passages, in combination with wicks located in the air passages of said radiator but smaller than such air



passages so as to leave room for the passage of air, and means for supplying water to said wicks.

1,424,456. SCREW DRIVER. THOMAS J. FEOLEY and WALTER S. SNYDER, Philadelphia, Pa., assignors to North Bro's. M'f'g. Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 25, 1920. Serial No. 384,074. 3 Claims. (Cl. 145—53.)

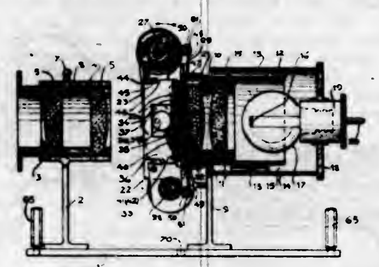


3. The combination in a screw driver, of a cylindrical section having an internal spiral groove; a ferrule screwed into one end of the section, the other end of the section being notched; a slotted locking plate having projections adapted to the notches in the cylindrical section; a handle driven onto the end of the cylindrical section; a spindle having a pin; a sleeve loosely mounted on the spindle and having threads adapted to the groove in the cylindrical section and notched at its outer end to engage the pin on the spindle; a second pin on the spindle beyond the nut; a washer; and a spring between the washer and the locking plate.

1,424,457. SCIOPTICON APPARATUS. ERNST FEGRAEUS, Partillo, Gottenborg, Sweden. Filed Nov. 10, 1921. Serial No. 514,350. 18 Claims. (Cl. 88—28.)

1. In a sciopticon apparatus, the combination of a lens system, a source of light disposed on the rear side of said lens system, and a support provided with a plurality

of rotatable parallel rollers for transferring a film, said support being mounted within said system and being



pivotally supported by an axis disposed substantially parallel to and arranged between the axes of said rollers.

1,424,458. UTILIZATION OF HOSIERY MILL WASTE. HORACE T. FLEISHER, Elkins Park, Pa. Filed Mar. 15, 1921. Serial No. 452,570. 4 Claims. (Cl. 28—1.)



1. The method of utilizing looper rounds cut from hosiery comprising looping a series of these endless rounds to each other to form a strand of sufficient length for use in the manufacture of fabric.

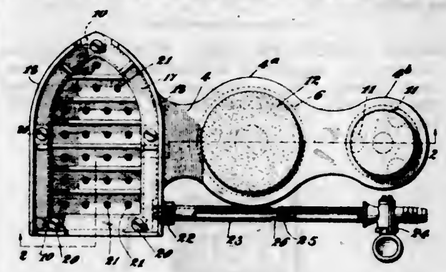
1,424,459. ROOFING ELEMENT. SILAS M. FORD, St. Paul, Minn. Filed Nov. 26, 1919. Serial No. 340,794. 7 Claims. (Cl. 108—7.)



3. A prepared roofing element comprising weather and covered portions of flexible laminated sheet material with integral vertical flanges comprising all the layers of the said laminated sheet material extending along each of the side edges of the said weather portion.

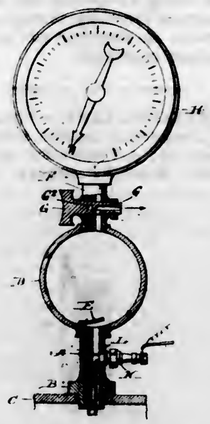
1,424,460. GAS HEATER FOR SADIRONS. OTTO H. FRANK, Brooklyn, N. Y. Filed Apr. 6, 1921. Serial No. 458,878. 5 Claims. (Cl. 126—230.)

3. A device of the character described comprising a hollow casting having the general proximate form of a sad iron, a casting provided with a number of pan-like members integral with each other, said second-mentioned casting being detachably mounted upon first-mentioned casting and having a general contour analogous to that



of a sad iron, said second-mentioned casting being provided with a plurality of burner nipples extending from said pan-like members, said second-mentioned casting being further provided with upwardly extending flanges for supporting a sad iron.

1,424,461. PRESSURE INDICATOR FOR INTERNAL-COMBUSTION ENGINES. GEORGE B. FRANKFORTER, U. S. Army. Filed Sept. 2, 1919. Serial No. 321,228. 1 Claim. (Cl. 73—31.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



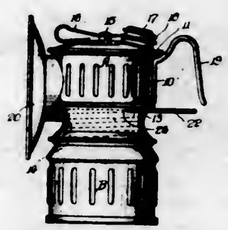
A pressure indicator for internal combustion engines, including a tubular connection formed at one end for threaded engagement with the head of the engine cylinder, the interior diameter of the connection being sufficient to allow free passage of fluid therethrough, a spark plug carried by the connection, a reservoir secured to the upper end of the connection, a check valve controlling the communication between the tubular connection and reservoir, a gauge connected to the reservoir and a three-way valve controlling communication between the reservoir and gauge, whereby the communication is established between the reservoir and gauge when the valve is in one position and between the reservoir and the atmosphere when the valve is turned to a position at right angles to the first mentioned position.

1,424,462. PROCESS FOR THE MANUFACTURE OF DETONATING CAPS FOR MINING AND MILITARY PURPOSES. WALTER FRIEDRICH, Troisdorf, near Cologne, Germany. Filed Dec. 15, 1920. Serial No. 431,046. 2 Claims. (Cl. 52—4.)

1. The process for the manufacture of detonating caps and the like for mining and military purposes which

consists in priming the ordinary main charge with lead azide and then placing lead trinitroresorcinate on said lead azide.

1,424,463. ACETYLENE LAMP. WILLIAM J. FRISBIE, Chicago, Ill. assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 11, 1921. Serial No. 468,546. 5 Claims. (Cl. 240—1.)



1. In a miner's acetylene lamp, the combination with the water container bo[illegible], of a bottom member therefor, a supporting structure extending from said container body, said body having an opening, the inner end of said supporting structure extending through said opening to be received between the body wall and said bottom structure to be thus held in position.

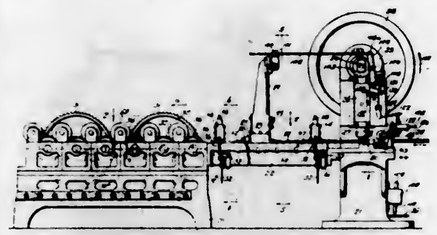
1,424,464. ACETYLENE LAMP. WILLIAM J. FRISBIE, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 29, 1921. Serial No. 496,544. 6 Claims. (Cl. 240—1.)



1. The combination with a lamp body having a gas orifice, of a spacer frame intimately engaging with and secured to the lamp body concentric with said orifice, a reflector having a central opening, a reenforcing wall surrounding said opening and extending rearwardly from the reflector, said wall being adapted for detachable threaded engagement wtih said spacing frame whereby said reflector may be secured to and seated against the front edge of said frame to bring the reflector opening in registration with said gas orifice.

1,424,465. BAR CUTTING AND STRAIGHTENING APPARATUS. JOHN F. GAIL, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed July 22, 1918. Serial No. 246,044. 18 Claims. (Cl. 153—2.)

4. The combination of constantly running straightener rolls, cut-off mechanism, propelling rolls interposed between the cut-off mechanism and the straightener rolls, means for constantly operating said propelling rolls, means for periodically operating said cut-off mechanism, and means for temporarily rendering the propelling mech-



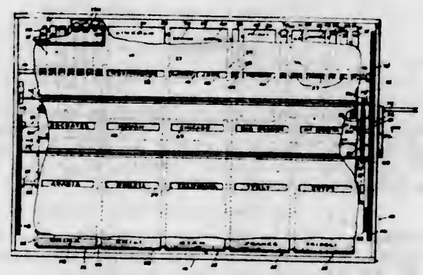
anism ineffective during the operation of the cut-off mechanism.

1,424,466. CASTER SOCKET. JOHN F. GAIL, Evanston, Ill., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Dec. 27, 1920. Serial No. 433,137. 5 Claims. (Cl. 16—39.)



1. In combination, a hollow post, a roller, a vertical swivel-spindle extending upwardly into the bottom of the post, a bracket on the lower end of the spindle and on which the roller is pivotally mounted on a horizontal axis offset from the spindle axis, means at the bottom of the post in which the lower end of the spindle is rotatably supported, and a socket body in said post in which the upper end of the spindle can rotate, and supported by the extremity of the spindle, said socket comprising a unitary stamped sheet metal strip folded to provide depending legs widely spaced at their lower ends to fit the interior of the post and contracted portions at their upper ends substantially fitting the upper end of the spindle, and to provide pairs of fins constituting lateral extensions of said contracted leg portions.

1,424,467. EDUCATIONAL AND AMUSEMENT DEVICE. JOSEPH GALLRAZZI, San Francisco, Calif. Filed May 9, 1921. Serial No. 468,154. 8 Claims. (Cl. 35—12.)



1. An educational and amusement device embodying in its construction a casing, one wall of which is provided

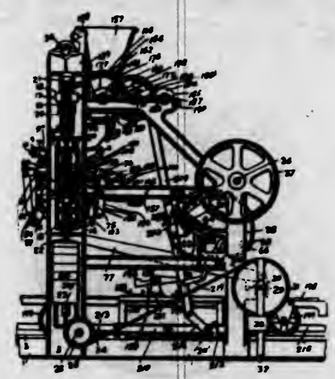
with an opening, a plurality of rotary members within the casing having indicia thereon arranged to be presented to view at said opening, a plurality of stop members on said rotary member, stop members within the casing adapted to be moved into and out of position to engage the first named stop members, means for rotating said rotary members, means operated automatically to move said last named stop members into engagement with the first named stop members after the predetermined rotation of said rotary members, whereby said rotary members are held against rotation and means operably associated with certain of said rotary members providing for holding said certain rotary members against rotation, independent of said first named stop means.

1,424,468. RESILIENT TIRE. DAVID A. GARDEN, St. Louis, Mo. Filed Nov. 12, 1921. Serial No. 514,665. 15 Claims. (Cl. 152—8.)



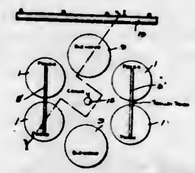
6. A spring tire, comprising coiled springs projecting radially from a rim, a tread portion composed of a number of substantially segmental-shaped members arranged in overlapping relation, pivotal connections between said tread members and said springs, means that extend circumferentially of the tire which holds said tread members in operative relationship with each other, and a resilient band arranged between said rim and tread members and having openings through which said springs are threaded.

1,424,469. CEMENT-TILE-MAKING MACHINE. WILLIAM GILLARD, Stratford, Ontario, Canada. Filed Apr. 2, 1921. Serial No. 457,843. 34 Claims. (Cl. 25—36.)



1. In a cement tile making machine, the combination with a mould carrier and moulds, means for guiding the mould carrier freely vertically, formers operating within the moulds to force the carrier downward as the tile is built up and counter weights opposing the downward pressure exerted on the mould frame, of normally vertical counterweighted lever bars mounted upon a swingable support, and means operated by the upward travel of the counter weights for drawing the counter weighted lever bars from the vertical to the horisontal position.

1,424,470. METHOD AND APPARATUS FOR MANIPULATING VULCANIZING DEVICES. HENRY R. GILSON, New Rochelle, N. Y., and GEORGE F. FISHER, Providence, R. I., assignors to Revere Rubber Company, a Corporation of Rhode Island. Filed June 24, 1920. Serial No. 391,354. 9 Claims. (Cl. 18—8.)



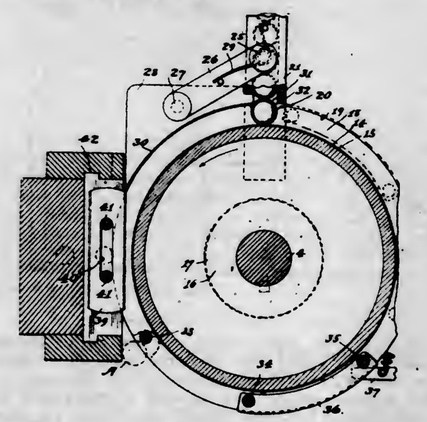
1. A vulcanizing unit comprising a polygonal arrangement of presses and elevators having vertically movable platforms, and means for shifting the molds to and from the presses and elevators.

1,424,471. HAIRPIN BOX. SOLOMON H. GOLDBERG, Chicago, Ill., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill., a Corporation of West Virginia. Filed Apr. 16, 1917. Serial No. 162,268. 2 Claims. (Cl. 229—11.)



1. A hairpin box, consisting of an outer container, formed of a single sheet of paper, said container being closed at each end by movable flaps, the flaps at the lower end being cut away to form a finger aperture, and an inner container, similarly formed of a single sheet of paper, and having a closed lower end and slidably fitted within the outer container and adapted to hold compartments and be raised by inserting the finger through said aperture in the outer container.

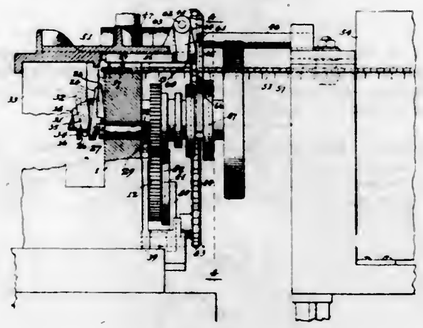
1,424,472. TUBE-CUTTING MECHANISM. SOLOMON H. GOLDBERG, Chicago, Ill., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill., a Corporation of West Virginia. Filed Dec. 14, 1918, Serial No. 266,670. Renewed Jan. 11, 1922. Serial No. 528,563. 4 Claims. (Cl. 164—68.)



1. In a machine for cutting tubes, into bands, the combination with a frame member, of a revolving roller, a

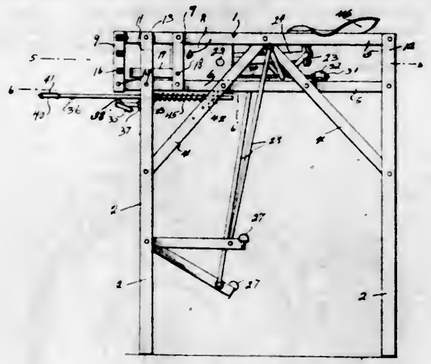
carrier loosely mounted relative to the roller and provided with a tube supporting portion, cutting knives, means for forcing the carrier into frictional engagement with the roller to carry the tubes past the knives and means for returning the carrier to normal position.

1,424,473. MACHINE FOR MAKING HAIRPINS OR SIMILAR ARTICLES. SOLOMON H. GOLDBERG, Chicago, Ill. Filed Feb. 10, 1919, Serial No. 276,010. Renewed Jan. 23, 1922. Serial No. 531,311. 4 Claims. (Cl. 140—87.)



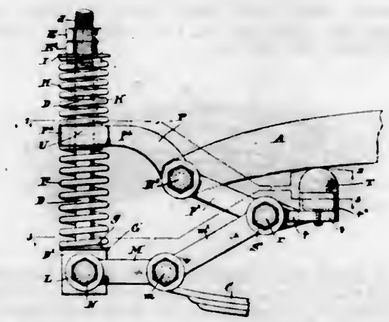
1. In a machine for forming hairpins or similar articles the combination with a continuously driven pin forming machine, of a continuously advancing conveyor chain, means for holding the pins on the chain and means whereby the chain is caused to be flexed to receive the hairpins.

1,424,474. POTATO CUTTER. HARRY J. HANSON, Amenia, N. Dak. Filed June 8, 1921. Serial No. 475,983. 4 Claims. (Cl. 146—7.)



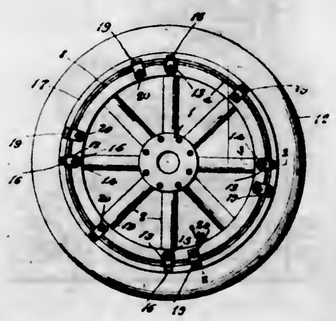
1. In a seed potato cutter, a frame having channels constituting guides, the discharge ends of the guides provided with intersecting vertical and transverse cutting knives, resilient jaws mounted in said guides with their resilient terminals immediately adjacent the knives, constituting yieldable abutments, against which the potato bears prior to being cut by the knives, a pair of plungers mounted to reciprocate in the guides and having their forward faces provided with intersecting transverse and vertical grooves corresponding to the intersections of the knives, so that the forward faces of the plungers may protrude partially between the knives, independently revoluble crank shafts operatively connecting with the plungers for reciprocating them, means for operating the crank shafts, and means operatively connecting said plungers, to insure alternate movement of the plungers.

1,424,475. SHOCK ABSORBER FOR VEHICLES. RALPH E. HASEMEIER, Kokomo, Ind. Filed Aug. 24, 1921. Serial No. 495,067. 13 Claims. (Cl. 267—17.)



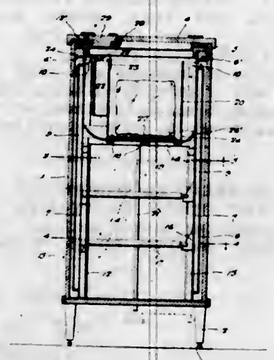
3. A shock absorber for vehicles comprising a spring carrying post, a plurality of springs thereon, a lever having an end interposed between the springs, another lever having an end arranged at the end of one of the springs, pivotal connections between the two levers, pivotal connections between said levers the vehicle frame and the spring with which the absorber is associated, and a buffer for limiting the movement of the levers.

1,424,476. SECTIONAL TIRE RIM. HAL H. HIVELY, Tar River, Okla. Filed Apr. 6, 1917. Serial No. 160,205. 1 Claim. (Cl. 301—11.)



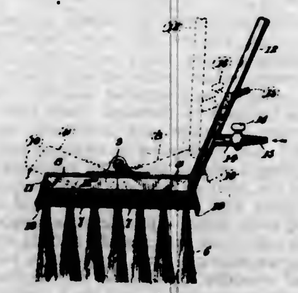
A means for fastening demountable rims to the felly of a wheel comprising a pair of annular members adapted to grip the beads of a tire and movable relative to each other, one of the members extending in a plurality of ears inwardly along the side of the felly and carrying clips adapted to retain the said members in a predetermined relative position to each other, and clips adapted to be placed upon the felly between the said ears and to perform the dual function of cooperating with said first clips to retain the said members together and also to retain the said members to the rim and adapted to be turned upon an axis to allow of the removal from the felly of the said demountable rim members.

1,424,477. ICE CONSERVER. GEORGE L. HOLLAND, St. Petersburg, Fla. Filed Aug. 9, 1921. Serial No. 491,000. 2 Claims. (Cl. 62—31.)



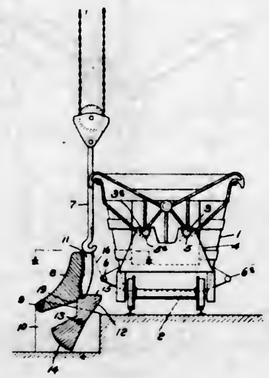
1. A refrigerator of the class described comprising a casing, detachable sheets of lining therein and spaced therefrom, a removable supporting frame in the lower part of the refrigerator and food trays carried thereby, an ice container supported on said frame, some of said sheets having flanges for engaging the other sheets to detachably hold said sheets in position and water receptacles connected to the outer faces of said sheets, a movable cover for the refrigerator and a door in said cover for access to the water receptacle.

1,424,478. FOUNTAIN SCRUBBING BRUSH. JOSEPH HORVATH, Cleveland, Ohio. Filed Dec. 22, 1921. Serial No. 524,073. 3 Claims. (Cl. 15—128.)



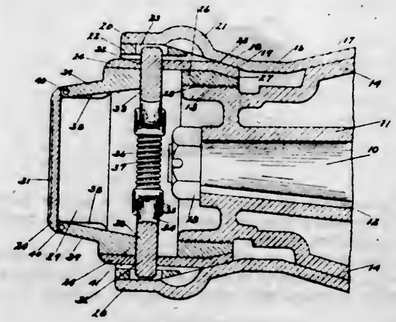
1. A fountain scrubbing brush of the class described comprising a brush head having bristles and provided with transverse openings, and a cup-shaped holder having its marginal rim engaging the edge of said brush head, with the body of the holder spaced therefrom to provide a chamber, said holder comprising a pair of longitudinal half sections hinged together and normally spring pressed into engagement with said head, one of said sections being provided with means through which fluid may be introduced into the chamber.

1,424,479. HOOK POSITIONER. WILLIS T. HURST, Pittsburgh, Pa., assignor to Slag Rock Machine Company, a Corporation of Pennsylvania. Filed Mar. 31, 1920. Serial No. 370,207. 11 Claims. (Cl. 214—64.)



1. The combination with a suspended vertically and laterally movable crane-hook, of means brought into action by descent of the crane hook to move the hook laterally into engagement with an object to be lifted.

1,424,480. HUB-CAP-LOCKING DEVICE. EMIL IBACH, Philadelphia, Pa., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 16, 1919. Serial No. 304,518. 9 Claims. (Cl. 301—9.)

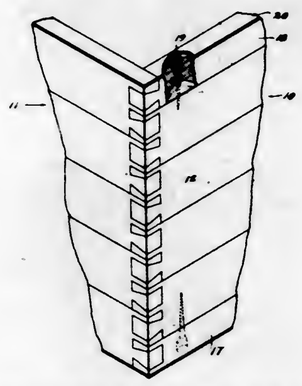


1. In a wheel, the combination of an inner hub, an outer hub removably and non-rotatably mounted thereon, said outer hub having an internal conical surface near its outer end, a nut screwed on the inner hub and having a conical nose engaging the conical surface of said outer hub, a reciprocable locking pin carried by said nut and movable radially with reference to the axis thereof and locking means on one of said hubs in position to be engaged by said locking pin.

1,424,481. MORTISE JOINT. PETER ISOARDI, McCloud, Calif. Filed May 4, 1920. Serial No. 378,788. 1 Claim. (Cl. 20—92.)

A box structure comprising a side wall formed of superposed boards of equal width and another side wall complementary thereto having boards equal in width with the first-named boards, with the exception of the edge boards which are of half the width of the remaining

boards, thus causing the joints between the boards of adjacent sides to be in staggered relation to each other, mortise and tenon elements formed at the opposite ends of said boards whereby each board, with the exception of the narrow edge boards, will interlock with the ends



of two adjacent boards of the adjoining wall, fastening means counterset in the narrow boards to engage the abutting board of the same wall, and cover strips extending along the edges of the walls to conceal the fastening means.

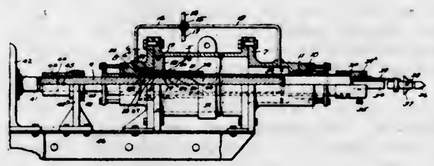
1,424,482. WIRE-INSULATING STRIPPER. WILLIAM JANNELL, West Park, Ohio, assignor to The Domestic Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 26, 1921. Serial No. 448,277. 24 Claims. (Cl. 15—21.)



1. In a device of the class described, a carrier having a wire spreading face, and means for retaining a portion of an armature therein.

5. The method of stripping insulating wires, which comprises arranging said wires on a bearing surface, and thereafter brushing said wires along said surface.

1,424,483. DRILLING MACHINE FOR TAPPING OUT THE HOT METAL OF FURNACES AND CUPOLAS. JOSEPH E. JUDY, McKeesport, Pa. Filed Apr. 8, 1921. Serial No. 459,628. 3 Claims. (Cl. 77—32.)

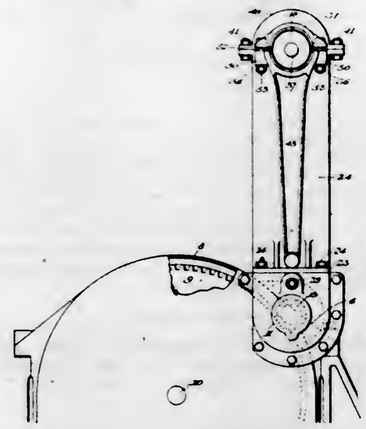


1. A device of the character described comprising as a bodily portable unit, a base, a pressure cylinder mounted upon said base, a piston in said cylinder, a piston rod mounted to rotate with respect to the piston, an electric motor upon the base outside of the cylinder and serving to impart rotation to the piston rod, a drill carried by the piston rod, means for admitting pressure fluid to the cylinder to actuate the piston and the piston rod to advance and retract the drill and a suspension element through which the entire unit may be suspended in such manner as to support the drill in a substantially horizontal position while said unit is being swung to and from the tapping hole of a furnace.

1,424,484. PRESERVED EGG AND PROCESS OF PRODUCING THE SAME. MORRIS KASSER, San Francisco, Calif. Filed Apr. 22, 1918. Serial No. 230,146. 6 Claims. (Cl. 99—8.)

5. The process of preserving eggs which consists in providing a bath of vegetable oil having hot and cold zones, submerging the egg in a cold zone and moving the submerged egg through the hot zone into a cold zone.

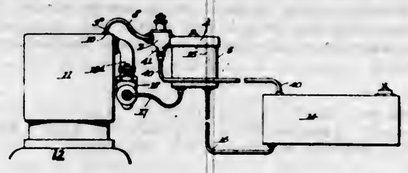
1,424,485. CRANKING MECHANISM FOR TRACTOR, TRUCK, AND OTHER HEAVY-DUTY ENGINES. PHILLIP ALEXANDER KINZIE, Littleton, Colo. Filed Dec. 16, 1920. Serial No. 431,239. 9 Claims. (Cl. 74—7.)



1. A cranking mechanism for engines, provided with a fly wheel, a crank provided with means including an adjustable friction gripping and a cooperating ratchet and pawl mechanism, means connected and driven by said crank for engaging and spinning said fly wheel, said crank being arranged to disengage itself from said fly wheel, a shaft on which said crank and its friction gripping and pawl mechanism is mounted, said ratchet member forming a part of said crank and being arranged to surround the pawl on said shaft, whereby said crank adjustably grips with frictional pressure said drum and rotates said shaft within said ratchet, a sprocket wheel mounted on said crank driven shaft, said fly wheel spinning means comprising a shaft arranged to move reciprocally, and rotatably mounted on said sprocket wheel, a sprocket chain connected to said crank shaft's sprocket wheel and to said reciprocating shaft's sprocket wheel, and arranged to intermittently reciprocate and rotate said fly wheel spinning shaft.

1,424,486. FUEL-FEEDING APPARATUS. PHILLIP ALEXANDER KINZIE, Littleton, Colo. Filed June 10, 1921. Serial No. 476,597. 15 Claims. (Cl. 158—36.)

1. A pressure feeding apparatus for internal combustion engines, comprising a casing having an apertured member connected to the cylinders of said engine at its fuel explosion end, and provided with an air compressing chamber, a valve seat in said chamber at the passage



leading to said cylinder, and means including a piston reciprocally mounted in said chamber and bearing against said valve seat for controlling said passage.

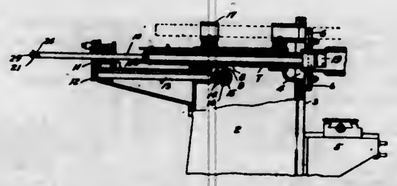
1,424,487. FUSE FOR BLASTING WITH A LIQUEFIED GAS AND METHOD OF PRODUCING THE SAME. AMBROSE KOWASTCH, Berlin-Charlottenburg, Germany. Filed July 19, 1920. Serial No. 397,557. 5 Claims. (Cl. 52—1.)

1. In a fuse for blasting with a liquefied gas, the combination with substances adapted to absorb liquefied gases, of ready made explosive of high initial power, the said elements being intimately mixed together.

1,424,488. CARTRIDGE FOR BLASTING WITH LIQUID AIR AND PROCESS OF PRODUCING THE SAME. AMBROSE KOWASTCH, Berlin-Charlottenburg, Germany. Filed July 19, 1920. Serial No. 397,559. 8 Claims. (Cl. 52—1.)

1. In a cartridge for blasting with a liquefied gas, the combination of peat with the usual components of the cartridge.

1,424,489. ATTACHMENT FOR BORING AND MILLING MACHINES. GUSTAVE F. KRIEGEL, Minneapolis, Minn., assignor, by mesne assignments, to Esther V. Safstrom, Minneapolis, Minn. Filed Apr. 28, 1919. Serial No. 293,172. 16 Claims. (Cl. 77—3.)



1. The combination, with a frame, of a hollow shaft mounted therein, means for revolving and feeding said shaft, a head mounted on said shaft, blocks mounted for radial movement in said head, a device mounted in said head for both projecting and withdrawing said blocks, and a rod within said hollow shaft having an operating means at one end and engaging said projecting and retracting means at the other end.

1,424,490. METAL WHEEL AND METHOD OF MAKING SAME. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Apr. 8, 1920. Serial No. 372,134. 5 Claims. (Cl. 29—159.)

1. The herein described method of constructing a metal wheel with rim and spoke or body part integral, consisting in providing a T beam having a depression in its

head over the web part, dividing the web, and forming the head into circular shape to form the rim and bring



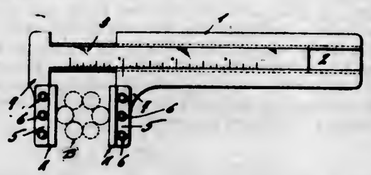
the parts of the web into proper relation for the body or spoke part.

1,424,491. AIRCRAFT. ORPHEZ LANGEVIN, New York, N. Y. Filed Nov. 3, 1919. Serial No. 335,365. 15 Claims. (Cl. 244—5.)



1. In an aircraft, the combination of a streamline dirigible having a cambered under surface flat transversely and curved longitudinally with convex front and rear portions and a concave intermediae portion providing a plane having a positive angle of incidence, and an aeroplane suspended therefrom, substantially as set forth.

1,424,492. CALIPERS. HARRY J. LESCHEN, Webster Groves, Mo., assignor to A. Leschen & Sons Rope Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 3, 1921. Serial No. 442,216. 2 Claims. (Cl. 33—143.)

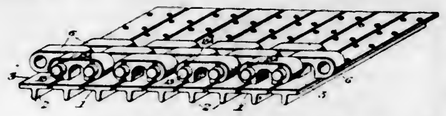


1. In a device for measuring the external diameters of wire rope, a pair of calipers comprising a guidebar, a graduated beam slidably mounted in said guidebar, jaw holders extending laterally from said beam and guidebar, a pair of oppositely disposed jaws extending laterally from the respective jaw holders, each of said jaws being in the form of a broad, deep plate having a flat inner face which is broad enough to span the helical recess in the rope, the outer face of each plate being provided with a pair of lugs between which one of said jaw holders is located, and rivets passing through said lugs and jaw holders to secure the jaws to their respective holders.

1,424,493. TRACTOR. JOHN GEORGE LEYNER, deceased, late of Littleton, Colo., by Lina M. Leyner, administratrix, Littleton, Colo., assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Nov. 11, 1920. Serial No. 423,434. 4 Claims. (Cl. 305—10.)

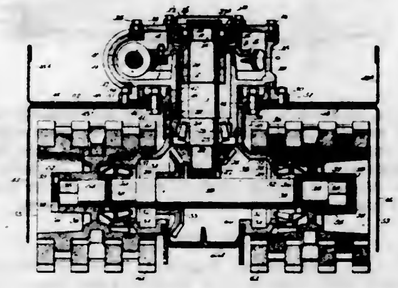
1. In a tractor, an endless track comprising a plurality of series of links in substantially contiguous relation to each other, each link having pivot openings near its opposite ends, the links in alternate series being offset relatively to each other, pivot rods extending trans-

versely through the links of all the series and shoes extending across all the series and connected to links in



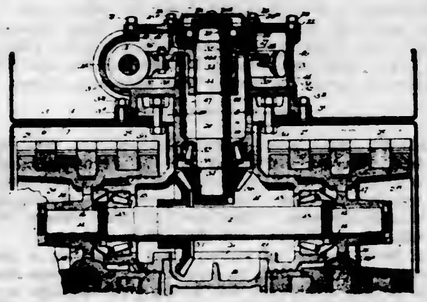
alternate series, the lateral edges of each shoe being in close proximity to the edges of the adjacent shoes.

1,424,494. DRIVING MECHANISM FOR THE GROUND-TREADING MEMBERS OF TRACTION ENGINES. JOHN GEORGE LEYNER, deceased, late of Littleton, Colo., by Lina M. Leyner, administratrix, Littleton, Colo., assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Nov. 11, 1920. Serial No. 423,437. 5 Claims. (Cl. 74—101.)



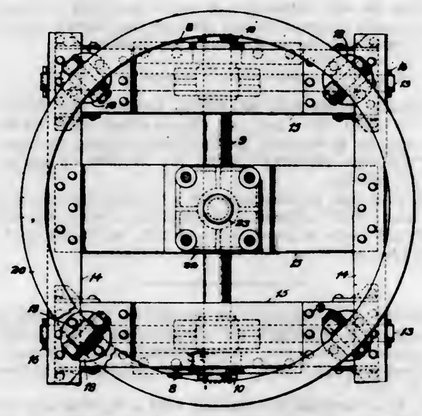
1. In a tractor, the combination of a horizontal shaft carrying on its center portion a bevel gear, a vertical shaft, a bevel gear at its lower end in mesh with said bevel gear, a gear mounted near the upper end of the vertical shaft, a shaft carrying a pinion in mesh with the gear, a housing surrounding the vertical shaft and gear mechanism connected therewith and a housing surrounding the horizontal shaft, the second housing having a vertical portion surrounding a part of the first housing and having a sliding fit therewith.

1,424,495. AUTOMATICALLY-OPERATING OILING MECHANISM FOR THE INTERIOR MOTOR-DRIVEN PARTS OF TRACTORS. JOHN GEORGE LEYNER, deceased, late of Littleton, Colo., by Lina M. Leyner, administratrix, Littleton, Colo., assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed June 10, 1921. Serial No. 476,548. 6 Claims. (Cl. 74—101.)



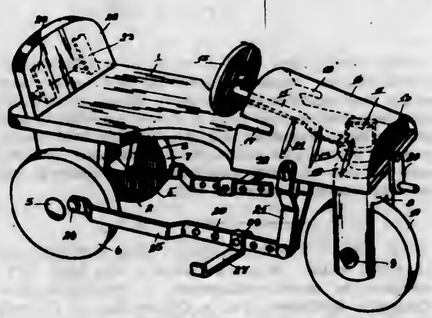
1. An oiling mechanism for tractors, comprising open topped cups and oil wells formed as integral parts of or attached to the several members of said tractor, a casing surrounding the upper parts of said mechanism, a vertical shaft, the upper end of which extends into said casing, a journal bearing arranged to rotatively support the upper end of said shaft in said casing, said casing being provided with an oil entrance hole to said shaft's journal bearing.

1,424,496. TRAILER CONNECTION. SAMUEL E. LIEDABRAND, Springfield, Ill. Filed June 21, 1920. Serial No. 390,468. 2 Claims. (Cl. 280—33.1.)



1. In mechanism of the character set forth, the combination with a lower pivot member, of mounting means therefor, an angular tiltable lower turntable member carried by the pivot member, rollers journaled on the corner portions of the lower member, and an upper turntable member journaled on the lower member and having a track portion that rides on the rollers.

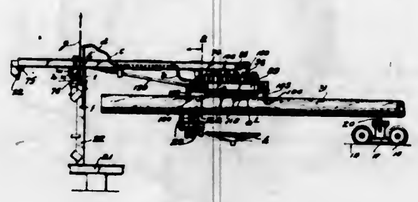
1,424,497. CHILD'S VEHICLE. JOHN LO VERDE and ANTHONY TURIOLO, Rochester, N. Y., assignors of one-seventh to Charles J. Mondo, Rochester, N. Y. Filed Sept. 18, 1920. Serial No. 411,262. 3 Claims. (Cl. 208—33.)



1. A vehicle having a spindle supported at the rear end thereof, wheels mounted to turn on said spindle, a crank

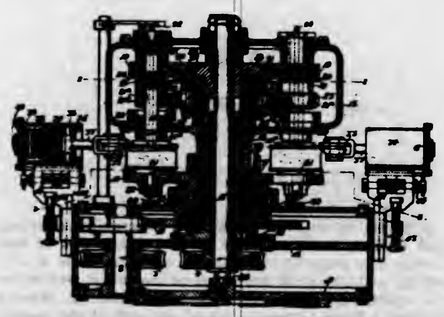
pin on each of said wheels, a connecting rod on each of said crank pins and extending forwardly therefrom, a long link and a short link connected to the forward end of said connecting rod and mounted to swing on the same center, the upper end of said long link swinging from a shifting center, the upper end of the long link being slotted to permit it to move up and down on its center.

1,424,498. POLE-PUNCTURING MACHINE. JAMES E. LYNCH, Minneapolis, Minn., assignor to Page & Hill Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Mar. 2, 1922. Serial No. 540,634. 4 Claims. (Cl. 144—2.)



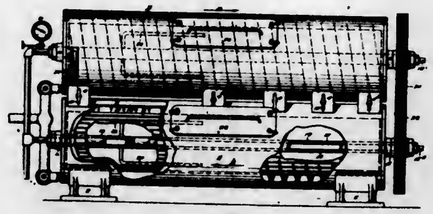
1. The combination with a machine comprising means for supporting and rotating a pole, an overlying beam, a floating frame supported from said beam and power-driven punches mounted on said floating frame in combination with a moistening device applied to said floating frame and arranged to deliver moisture onto that zone of the pole that is to be punctured, immediately in advance of the puncturing operation.

1,424,499. DOUBLE-SEAMING MACHINE. SAMUEL MCCULLOCH, San Francisco, Calif., assignor to Charles A. Mullen, San Francisco, Calif. Filed Jan. 10, 1918. Serial No. 211,118. 34 Claims. (Cl. 113—23.)



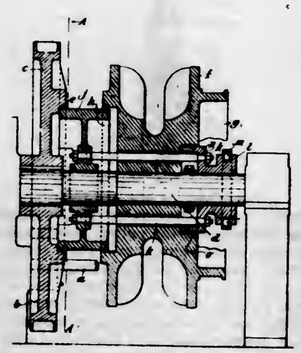
1. In a seaming machine the combination with a spindle adapted to receive and revolve a can, of a floating seaming member adapted to engage the flange on the can to seam the same and adapted to move radially with relation thereto, said radial movement of the seaming member being imparted thereto by the periphery of the can, means for maintaining a predetermined spacing between the seaming member and the can, and means for maintaining a predetermined and constant pressure on the seaming member regardless of the positions assumed during its radial movement.

1,424,500. COOKER. SAMUEL MCCULLOCH, San Francisco, Calif., assignor to Charles A. Mullen, San Francisco, Calif. Filed May 8, 1919. Serial No. 295,612. 20 Claims. (Cl. 126—272.)



20. A cooker comprising a cylindrical shaped casing having a can-way therein, a rotatable member for advancing cans along the can-way, a jacket exterior of the casing, and means for circulating steam through the jacket to heat the can-way.

1,424,501. CLUTCH FOR WINDLASSES. STEWART MCINTOSH, Monkseaton, and JOHN SPENCE GUILD, Newcastle-upon-Tyne, England. Filed June 25, 1920. Serial No. 391,665. 3 Claims. (Cl. 192—67.)

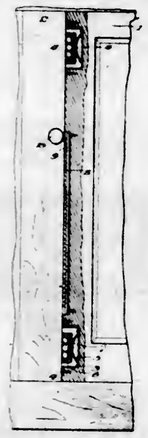


1. In a windlass, the combination with a shaft, a cable lifter thereon having a polygonal recess in one of its side faces, a main driving gear wheel on said shaft having a polygonal recess in its side face, and a polygonal clutch member interposed between said lifter and gear wheel loose on the said shaft and means for operating said clutch member to couple or uncouple said lifter and gear wheel thereby.

1,424,502. BALL-BEARING CAR SASH. OLIVER P. MCLENDON and HARRY G. SMITH, Kingsville, Tex.; said Smith assignor to said McLendon. Filed May 17, 1921. Serial No. 470,445. 5 Claims. (Cl. 20—52.)

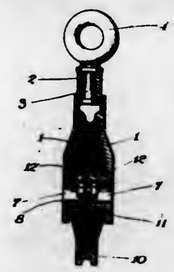
1. A car window sash provided with recesses adjacent the top and bottom thereof, bearings mounted in said

recesses, each of said bearings including a clip, balls mounted therein, and a spring pressing said clip and balls



outwardly against the window frame in substantially the direction of the plane of the sash.

1,424,503. SHEAVE BLOCK. DUFF G. MANGES, Maryville, Tenn., assignor to D. G. Manges & Company, Vose, Tenn., a Corporation of Tennessee. Filed Dec. 27, 1920. Serial No. 433,391. 7 Claims. (Cl. 254—192.)



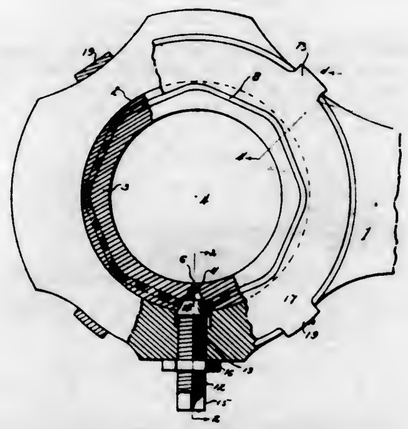
1. A sheave block, comprising in combination with the housing sections and the pulley, each housing section having a hollow shaft section, said shaft section abutting at their inner ends, and having transverse webs fitting one against the other, a bolt traversing the webs for securing them together, the wheel being journaled on the shaft sections, and a bushing arranged between the wheel and the shaft sections, means in connection with the bushing and the housing sections for preventing movement of the bushing with the wheel, said means comprising dowel pins between the bushing and the housing sections.

1,424,504. LUBRICATING GUN. CHARLES W. MANZEL, Buffalo, N. Y. Filed Sept. 18, 1920. Serial No. 411,160. 3 Claims. (Cl. 221—78.)



1. A lubricating gun, comprising a pump-barrel, a lubricant magazine removably arranged in the barrel and having a reinforcing tube in its rear portion, and a cap secured to the rear end of said magazine and removably applied to the adjacent end of the pump barrel.

1,424,505. BUSHING TIGHTENER FOR LOCOMOTIVE CONNECTING RODS. HAROLD G. MARTIN, Philadelphia, Pa., and MICHAEL H. NEWGIRG, Baltimore, Md. Filed Apr. 26, 1921. Serial No. 464,641. 6 Claims. (Cl. 64—10.)



1. The combination with a connecting rod and a bushing arranged in an opening threof, the bushing having a portion projecting beyond the face of the connecting rod, of means for tightening the bushing in the opening in said rod, and means fastened to the connecting rod having interlocking connection with the portion projecting beyond the face of connecting rod for locking the bushing against turning.

1,424,506. CUE-TIP CUTTER. JOHN D. MARTIN, Rock Island, Ill. Filed Nov. 21, 1921. Serial No. 516,530. 1 Claim. Cl. 145—27.)

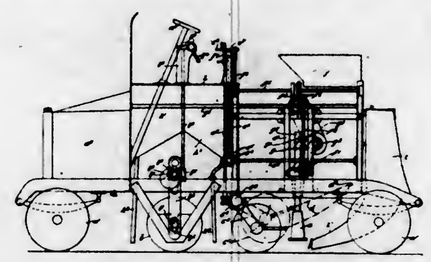


A device of the class described, comprising a casing, open at both ends; a cutter pivoted at one end of said casing, in a plane at right angles with the walls of said casing; a thumb-screw supported on the end of said casing and operatively connected with said cutter, to cause a movement thereof transversely of the end of the casing; a guide for the free end of said knife, fixed on the end of said casing; a clamp-block held within said casing, so as to be movable therein, transversely of the casing; and means for transverse adjustment of said block.

1,424,507. APPARATUS FOR USE IN THE REPAIR OF ROADS AND THE LIKE. EDWARD MELDAL, London, England. Filed Oct. 5, 1920. Serial No. 414,797. 9 Claims. Cl. 94—44.)

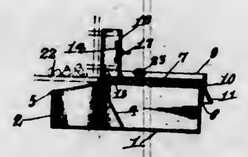
1. An apparatus for use in road repairs comprising in combination a vehicular frame carrying a main heavy roller, means for raising and lowering said roller from

and to the ground, and means by which part of the weight of the vehicle may be thrown onto the roller when in



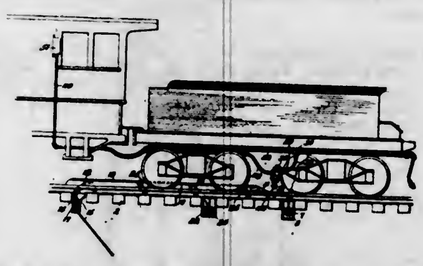
action whilst retaining pressure on the running wheels of the vehicular frame sufficient for their proper function.

1,424,508. ASH PAN. WILLIE CASPARUS METZGER, Mobile, Ala. Filed Feb. 8, 1922. Serial No. 534,983. 3 Claims. (Cl. 126—243.)



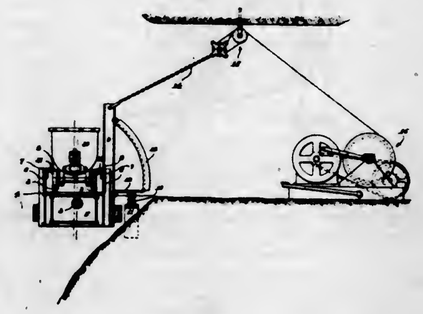
1. An ash pan including a body member, an extending portion formed integral therewith, a removable cover normally arranged to cover the top of the body, an upstanding guard plate removably mounted upon said cover and arranged at one side of the extension and draft regulators carried by said guard plate and cover plate.

1,424,509. RAILWAY SIGNAL DEVICE. CHARLES J. MILLER, Moselle, Miss. Filed Jan. 3, 1921. Serial No. 434,671. 1 Claim. (Cl. 246—174.)



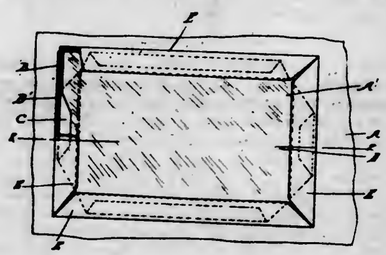
In an automatic signal device, the combination of a railway track, a trip fulcrumed adjacent the inside of one rail thereof and normally resting above the rail, an auxiliary rail normally resting below the level of the track and movable upwardly and downwardly with respect to the track and being arranged in the same plane as the trip and in advance thereof with respect to the direction of travel of a train, a valve secured to the train for controlling passage of air to the main signal line of a train, a visual indicator arranged on the train, an arm secured to the valve and depending therefrom, and a signal arm arranged adjacent the track and connected with the auxiliary rail for elevating the same above the track to cause contact of the arm of the valve with the auxiliary rail to actuate said valve.

1,424,510. ROTARY CAR DUMP. JAMES P. MOSIER, St. Francois, Mo., assignor, by mesne assignments, of one-fourth to himself, one-eighth to Ernist R. Campbell, and one-eighth to John A. Green, both of Desloge, Mo., and one-half to National Lead Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 19, 1920. Serial No. 404,636. 7 Claims. (Cl. 214—52.)



1. A car dump comprising a trackway, a frame pivotally mounted to rotate on an axis substantially parallel with the trackway and having a separate section of trackway mounted thereon, guard hangers on said frame in position to overlap the wheels of a car thereon, and means for normally holding said frame with its trackway section in operative relation to the main trackway, said means comprising a resilient member in the path of one side of the frame adapted to aid in initiating the dumping movement thereof and in checking the movement to normal position.

1,424,511. CURTAIN-WINDOW LIGHT. NICHOLAS MURPHY, Detroit, Mich. Filed Jan. 23, 1920. Serial No. 353,499. 10 Claims. (Cl. 296—145.)

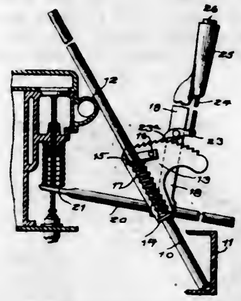


1. In a device of the character described, the combination with a curtain having a window opening, of a transparent member covering said opening, portions of the curtain engaging the edges and opposite sides of said member, and a plurality of quick detachable resilient clamping members of substantially U-shape in cross section frictionally securing said portions to said member.

1,424,512. VALVE-SPRING COMPRESSOR. MARK MUSGRAVE, Pittsburg, Kans. Filed Feb. 19, 1921. Serial No. 446,325. 13 Claims. (Cl. 29—86.3.)

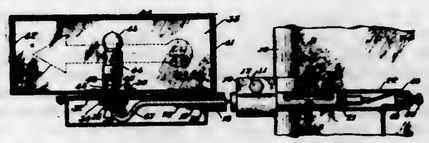
1. A valve spring compressor comprising a bar, a plate adjustable upon the bar, a lever pivoted upon the plate and

a member associated with the lever to be shifted thereby, said member being adjustable transversely of the lever and



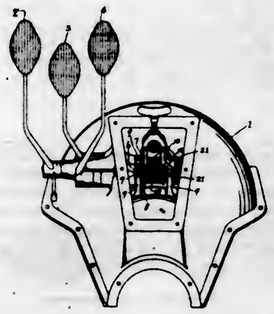
being provided at one end with a head adapted to engage beneath a spring seat.

1,424,513. DIRECTION INDICATOR. SEIHACHIRO NAKASOBA, Niles, Calif. Filed Nov. 11, 1920. Serial No. 423,367. 6 Claims. (Cl. 116—46.)



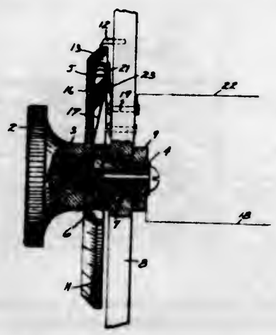
1. A direction indicator comprising an outer fixed sleeve, an inner sleeve rotatable relative to the outer sleeve, and held against longitudinal movement, a mounting plate secured to the end of said inner sleeve and normally operated in a horizontal plane, a semaphore box pivotally disposed upon said mounting plate adapted to rotate horizontally, means extending through said inner sleeve for producing horizontal rotation of the semaphore box, and an operating means by which the horizontal rotation of the semaphore box will be brought about, or the vertical rotation of the inner sleeve and the box.

1,424,514. AUTOMOBILE TOOL. WILBUR J. NUSBAUM, Washington, D. C., assignor of one-third to George W. Nusbaum, Takoma Park, Md., and one-third to Robert L. Baxter, Washington, D. C. Filed Nov. 20, 1920. Serial No. 425,511. 11 Claims. (Cl. 29—87.1.)



1. In a tool of the character described, a body, a stationary jaw, opposed leaves movably connected to the body, and means supported by the body for shifting the leaves toward each other at one end and relative to the jaw.

1,424,515. RHEOSTAT. JOHN PARKIN, Jr., San Rafael, Calif. Filed Apr. 25, 1921. Serial No. 464,142. 8 Claims. (Cl. 219—55.)



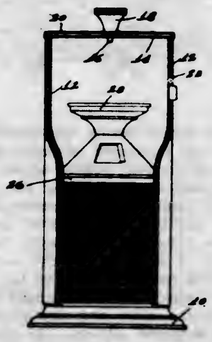
1. A variable resistance device comprising a rotatably mounted graduated disk, a variable resistance element circularly disposed about said disk and fixed for rotation therewith, and a knob for the digital control of said disk.

1,424,516. SPEAKING CLOCK. VINCENT PINTO and JOSEPH PINTO, Philadelphia, Pa. Filed July 27, 1920. Serial No. 399,371. 21 Claims. (Cl. 58—14.)



1. In a speaking clock, a clock, a phonograph, a motor for operating the phonograph, contacts for closing the motor circuit, clock-operated means for closing the contacts and motor-operated means for maintaining the contacts in closed position independently of the clock-operated closing means.

1,424,517. SANITARY SUNDAE-CUP HOLDER AND DISPENSER. PETER T. POTTS, Chicago, Ill., assignor to The Vortex Mfg. Co., a Corporation of Illinois. Filed Feb. 28, 1921. Serial No. 448,324. 10 Claims. (Cl. 211—29.)



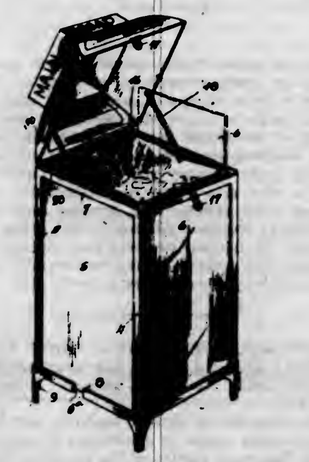
1. A container and dispenser for paper cups including a pair of cylinders concentrically mounted, one of said cylinders being relatively fixed and the other adapted to rotate about their common axis, and openings in said cylinders through which a cup is adapted to be withdrawn, together with means for alining said openings.

1,424,518. REGISTER DIAL. PAUL F. QUINLAN, Jr., Elkins Park, Pa. Filed Apr. 29, 1921. Serial No. 465,376. 1 Claim. (Cl. 235—113.)



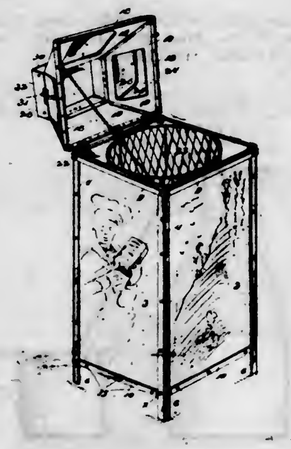
In a meter dial comprising two or more numbered rotating disks and a dial plate having sight openings formed through it for the display of the numbers in certain positions of the disks, the improvement which consists in forming the sight opening in the dial of such a length as to display two members on a disk in one position of the disk, providing on each disk a series of shutter actuating cams corresponding in number to the numbers on the disk and combining therewith a pair of shutters for each disk plate, said shutters moving on a common pivot and having a cam contacting portion acted on by the cams on the numbered disks in connection with which the shutters operate as described and so that one shutter covers a number moving into registry with the sight hole until it has passed fully into said sight hole, the other shutter during this period being retracted from the sight hole, and after the said number has so fully registered with the sight hole the cam rapidly shifts the shutters so that the one uncovers the advancing number and the other covers the receding number.

1,424,519. COMBINED TRASH RECEPTACLE AND ADVERTISING CARRIER. GEORGE J. RICHARDSON, Petersburg, Va., assignor to American Spotless Street System, Inc., Petersburg, Va., a Corporation of Virginia. Filed June 30, 1920. Serial No. 392,968. 1 Claim. (Cl. 220—32.)



A combined trash and advertising medium comprising a receptacle, a skeleton frame spaced from the walls of and surrounding the receptacle to form panel guideways, panels fitted in the guideways, a cover hinged to the top of the frame outside the vertical plane of the guideways, whereby to permit of removal of the panels when the cover is in open position or when closed to hold said panels against movement, said cover having upwardly and inwardly curved walls terminating in a square dome having vertical side walls to receive advertising data, one of the upwardly and inwardly curved walls having an opening, the uppermost wall of which is spaced from the adjacent vertical wall of the dome, a closure hinged to said upper wall and curved in cross-section to substantially correspond to the curvature of the curved wall in which the opening is formed, whereby when the closure is thrown open it will be supported in an inclined position against the dome and a substantially curved chute is formed to direct trash into the opening.

1,424,520. COMBINED TRASH RECEPTACLE AND ADVERTISING CARRIER. GEORGE J. RICHARDSON and WALTER SACHS, Petersburg, Va., assignors to American Spotless Street System, Inc., Petersburg, Va., a Corporation of Virginia. Filed Nov. 8, 1920. Serial No. 422,647. 8 Claims. (Cl. 220—32.)

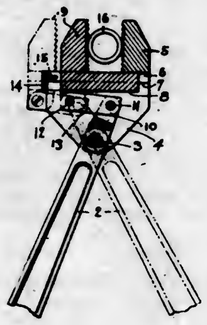


6. A combined trash receptacle and advertising medium having side and end walls, a bottom, a frame including vertical and horizontal bars to which the side, end walls and bottom are attached, the upper bars of the frame terminating at or about the top of the side and end walls and are secured on the outside of the upper portions of the vertical bars of said frame whereby to form spaces for the reception of advertising panels, a cover for the receptacle, said cover having upwardly inclined walls at the top of which is an opening, a flat top portion fitted over the opening and having its edges secured to the upper edges of the inclined walls of the cover, and hinges secured on the outside of the rear upper bar of the frame and to the rear lower edge of the cover, whereby when the cover is in open position an advertising panel may be vertically inserted at the rear of the receptacle.

1,424,521. WRENCH. HARLEY E. RUTTER, Pittsburgh, Pa. Filed Sept. 24, 1921. Serial No. 502,971. 2 Claims. (Cl. 81—126.)

1. In a wrench, the combination of a member carrying a stationary jaw and having a guideway, a movable jaw having an extension engaging said guideway, a handle pivotally connected to said member, a link pivotally con-

nected to the upper end of said handle and to a lug formed at the outer lower end of said movable jaw, and a remov-



able stop plate secured to said member for limiting the movement of said movable jaw away from said fixed jaw.

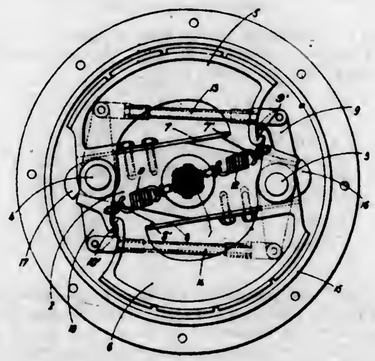
1,424,522. LIQUID SEPARATOR. CORA A. SANBORN, Brooklyn, N. Y. Filed Aug. 11, 1919. Serial No. 316,821. 5 Claims. (Cl. 137—20.)



1. A liquid separator comprising an annular supporting member adapted to fit within the neck of a receptacle, a diaphragm provided with a cylindrical shell and an annular cap, said diaphragm being adapted to slide through said supporting member and cooperating therewith to form a closure for retention of air, and a siphon tube having one leg thereof in frictional engagement with said cap.

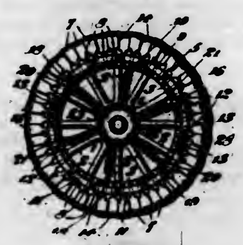
1,424,523. SPEED-LIMITING MECHANISM FOR VEHICLES. LÉON SAIVRE, Billancourt, France, assignor to Louis Renault, Billancourt, Seine, France. Filed Nov. 11, 1920. Serial No. 423,323. 2 Claims. (Cl. 188—181.)

2. In a speed limiting mechanism, the combination with a rotary member and a stationary member, of an actuating member carried by said rotary member, brake segments pivoted to the opposite ends of said actuating member, centrifugally controlled levers also pivoted in the outer ends of said actuating member, means carried by said levers for gripping said segments and normally maintaining them out of engagement with the stationary member but permitting their release when the rotary member attains a predetermined maximum speed, means for connecting the centrifugally controlled levers together so that the same will act in unison, springs for automatically returning said braking segments to normal or in-



operative position and springs for automatically returning the said levers to again grip the brake segments upon the reduction of speed of the rotary member.

1,424,524. ARMORED WHEEL TREAD. ELMER S. SEAVEY, Johnstown, Pa. Filed July 14, 1920. Serial No. 396,256. 20 Claims. (Cl. 152—16.)

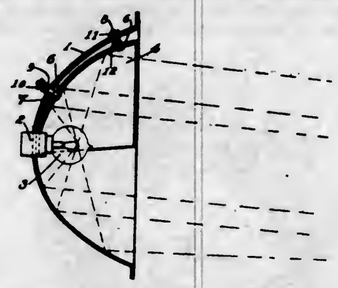


20. In an armored tire, comprising an elastic tire, a plurality of friction members surrounding the elastic tire, every other friction member being made of softer material than the intervening section, a ring-holder on each side of the elastic tire for holding the ends of the friction members, each ring-holder being composed of an inner and outer annular ring attached together, a joint formed on each side of the ring-holder, the ends of the inner and outer annular ring, forming each ring-holder, being made in staggered relation to each other, means for preventing the friction members from falling out of the ring-holder, and resilient means for normally holding the friction members in contact with elastic tire.

1,424,525. REFLECTING ATTACHMENT FOR HEADLIGHTS. HARRY J. SHELY, Los Angeles, Calif. Filed Aug. 30, 1921. Serial No. 496,813. 2 Claims. (Cl. 240—44.)

1. The combination with a headlight reflector having lamp supporting means, of a reflecting attachment insertable into the upper portion of the headlight reflector and straddling the lamp supporting means, said attachment covering the upper portion of the reflecting surface of the headlight reflector, yielding means upon the headlight reflector for drawing the lower portion of the member

against said reflector, and yielding means interposed between said headlight reflector and the attachment for



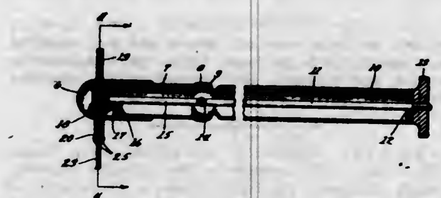
pressing the upper portion of said attachment away from the headlight reflector.

1,424,526. SPARK-PLUG CORE. HARRY J. SHELY, Los Angeles, Calif. Filed Nov. 7, 1921. Serial No. 513,358. 3 Claims. (Cl. 123—169.)



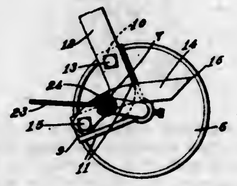
1. In a spark plug, a shell including opposed sections, a core supported within the shell, an electrode extending through the core, said core having an opening formed in the side thereof, an electrode having one end terminating at a point adjacent to one end of the opening, the opposite end of the last mentioned electrode being disposed in proximity to the first mentioned electrode to provide sparking points, a gasket disposed between the core and shell and disposed over the opening, and a coiled spring within the opening and contacting with the gasket and electrode, terminating adjacent the opening.

1,424,527. DENTAL CROWN REMOVER. LOUIS R. SIEGEL, Cleveland, Ohio. Filed Oct. 18, 1921. Serial No. 508,526. 5 Claims. (Cl. 32—10.)



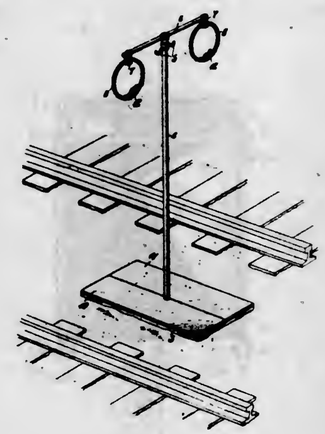
1. A crown remover comprising a head provided with jaws to grip a crown, a nonrotatable screw carried by the head and adapted to rest against the tooth, a nut rotatable on the screw, within the head, and an operating device for rotating the nut, said device extending at an angle to the axis of the screw, and including a shaft with a universal joint.

1,424,528. TRUCK. GAYLE L. SQUIRE, Hastings, Fla. Filed Sept. 26, 1921. Serial No. 503,225. 2 Claims. (Cl. 280—56.)



1. A hand truck, comprising an axle, wheels supported by the axle, a frame supported by the axle, a handle having connection with the frame, spikes supported above the axle and adapted to engage an article carried by the truck, a pivoted arm supported by the frame and adapted to engage over the upper edge of an article supported by the truck, and means for normally urging the arm into engagement with the article supported by the truck.

1,424,529. RAILWAY-DISPATCH-ORDER SUPPORT. LOUIS H. STRAN, Shafter, Nev. Filed June 18, 1921. Serial No. 478,631. 7 Claims. (Cl. 258—23.)



1. A train dispatch order holding device comprising an upstanding part adapted to be placed beneath a road surface, a standard slidably connected therewith, a cross arm carried by said standard, a train dispatch order holding device supported by the cross arm, and means for maintaining said standard in a raised position, said means permitting the standard to be rotated to move the cross arm to a position at right angles to the track or parallel therewith.

1,424,530. SPOKE TIGHTENER. EMMITT M. TUCKER and JESSE D. TUCKER, Sacramento, Calif., assignors to Tucker Brothers Manufacturing Company, Sacramento, Calif., a Corporation. Filed Dec. 7, 1921. Serial No. 520,552. 2 Claims. (Cl. 301—75.)



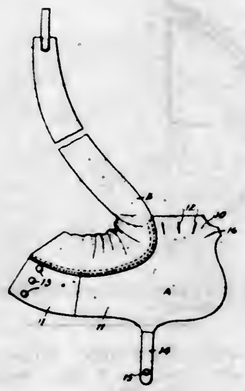
1. A spoke tightener comprising a shim member provided with an orifice to receive the tenon of a spoke, said shim being cut through from the outer edge to the orifice, and from the opposite side of the orifice to a point short of the adjacent outer edge; the shim before placement being spread apart at the cut-through edges to allow the tenon to pass therethrough; the opposite incision then spreading to form a V whose sides are in alinement with the first named edges, whereby on pinching the spread portions together the V-shaped incision will close proportionately with the closing of the cut-through edges.

1,424,531. KITCHEN CABINET. DE KALB TURRENTINE, Roanoke, Ala. Filed July 22, 1921. Serial No. 486,785. 7 Claims. (Cl. 45—16.)



7. A bin comprising upstanding side walls defining a pair of compartments, transversely extending rods extending through said compartments, bins arranged in said compartment and having bottom walls provided with transversely extending recesses receiving said rods, a top connecting said side walls and having depending stop elements extending into said bin and engaging the walls of the same to limit the movement of the bin, the side walls of said bins being provided with notches and a cover having pins adapted to engage said notches to lock the bins in closed position.

1,424,532. COMBINED SPAT AND PUTTEE. CHARLES TWEEDIE, Jefferson City, Mo. Filed July 11, 1921. Serial No. 483,812. 6 Claims. (Cl. 36—2.)



1. A combined spat and puttee comprising a foot portion and an elongated flexible leg portion secured at the end to the upper part of said foot portion and extending therefrom in a substantially horizontal direction to enable it to be wrapped around the leg without considerable puckering.

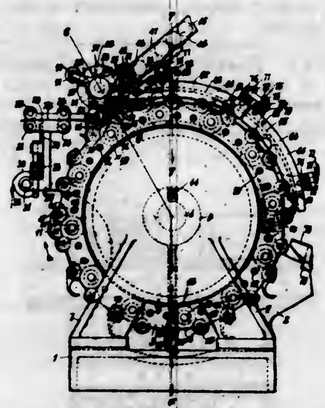
1,424,533. LOCKING DEVICE FOR LOCKER DOORS. WALTER N. VANCE, Chicago Heights, Ill., assignor to Durand Steel Locker Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1917. Serial No. 198,407. 7 Claims. (Cl. 70—14.)



1. In a locker, the combination of a door having a rim lock receiving aperture, and a pad lock receiving device adapted to be positioned in the rim lock receiving aperture, and having a part protruding from the door and a locking part disposed behind the door.

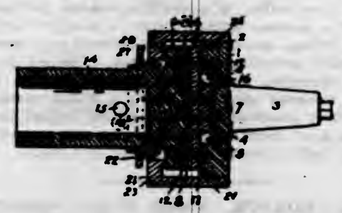
1,424,534. WRAPPING MACHINE. PAUL VARGA, Cincinnati, Ohio, assignor to The Aromint Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 7, 1918. Serial No. 261,474. 31 Claims. (Cl. 93—7.)

1. In a wrapping machine, traveling wrapping means to rotatably support an article to be wrapped, and comprising rotary means juxtaposed to said article in an axial direction therefrom to crimp a wrapper projecting axially from said article during rotation of said article,



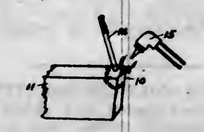
means for feeding said article to said wrapping means, and means for supplying a wrapper between said article and said wrapping means.

1,424,535. FLOATING TOOL CHUCK. HARRY J. WATTS, Turtle Creek, Pa. Filed Dec. 5, 1919. Serial No. 342,779. 2 Claims. (Cl. 279—16.)



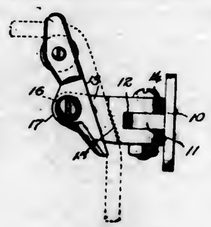
1. A floating tool chuck comprising a shank carrying element, a shiftable element carrying a socket-forming-member for the reception of a tool, a shiftable coupling element interposed between and intervengaging with the other of said elements, said shank carrying element of greater diameter than the other of said elements, and a casing secured to the periphery of the shank carrying element and enclosing the other of said elements, said casing formed at its lower end with an inwardly extending flange disposed at right angles with respect to the body of the casing and through which extends said member, said flange formed with an upwardly extending supporting rib for the shiftable element carrying the socket forming member and of less diameter than said member.

1,424,536. HIGH-SPEED TOOL. EDGAR I. WENGER, Glenellyn, Ill. Filed Mar. 20, 1920. Serial No. 367,481. 2 Claims. (Cl. 29—95.)



1. A cutting tool having a metal shank with its cutting edge modified by the interpenetration of an alloying metal.

1,424,537. CLOTHESLINE FASTENER. JOHN A. WETH, Streator, Ill. Filed Feb. 24, 1922. Serial No. 538,974. 1 Claim. (Cl. 24—133.)



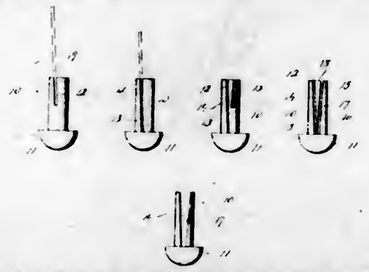
A clothes line fastener comprising a base plate adapted to be attached to a fixed support, an ear projecting from said plate, a member pivoted to said ear for swinging movement, an extension on said member, a dog pivoted to said extension, a serrated clamping surface on said member, said serrated clamping surface being straight and disposed at an angle with respect to the axis of pivotal movement of said member, one surface of said dog being straight and facing in the direction of said straight angularly disposed clamping surface of said member and at predetermined times during pivotal movement of said dog being adapted to extend in spaced parallel relation to said angularly disposed serrated clamping surface whereby that portion of a clothes line arranged between the dog and said latter mentioned surface may be clamped with even force throughout its length.

1,424,538. DRILL PRESS. CHARLES A. WIDMER, Paterson, N. J. Filed Nov. 13, 1918. Serial No. 262,265. 1 Claim. (Cl. 77—33.)



In combination, the frame, a tool-carrier-including train including a rotary driven member, a rotary driving gear member, a free rotary gear, said members and the gear being concentric, a pinion meshing with the gear and journaled in one and meshing with the other of said members, and a rotation preventing detent device for the gear movable into and out of locking relation thereto and actuable by a part of said train.

1,424,539. METHOD FOR BIFURCATING BLANKS. RICHARD LESTER WILCOX, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 21, 1920. Serial No. 353,122. 4 Claims. (Cl. 10—27.)



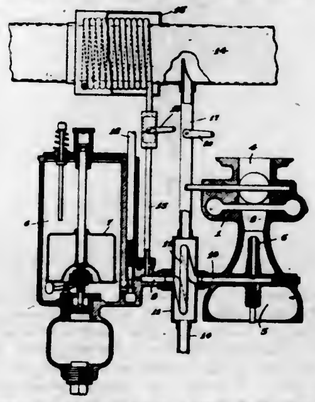
1. The method for bifurcating blanks which comprises slotting the blank with cuts at an angle to the length thereof which join at the inner ends.

1,424,540. METHOD FOR BIFURCATING BLANKS. RICHARD LESTER WILCOX, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 12, 1920. Serial No. 358,015. 5 Claims. (Cl. 10—27.)



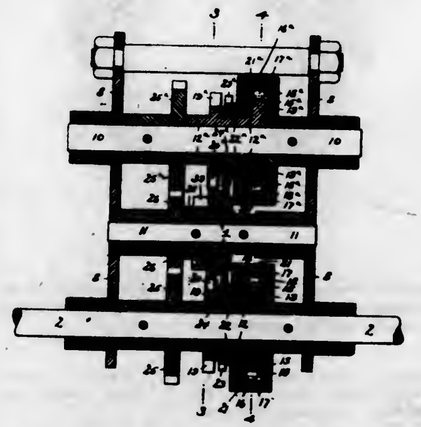
1. The method for bifurcating blanks comprising the slotting of the blank with one or more cuts of substantially uniform width in alignment with each other and substantially parallel to the length of the blank, then cutting the sides of the said cuts to form the sides of the finished slot.

1,424,541. VAPORIZER OR CARBURETOR FOR INTERNAL-COMBUSTION ENGINES AND PROCESS OF VAPORIZING THE MOTIVE FLUID FOR SUCH ENGINES. JOHN WILKINSON, Syracuse, N. Y., assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y., a Corporation of New York. Filed Oct. 31, 1917. Serial No. 199,491. 2 Claims. (Cl. 48—219.)



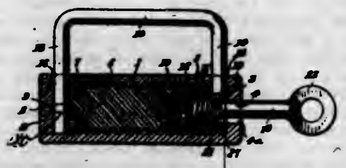
1. The process of vaporizing motive fluids for internal combustion engines comprising heating a liquid fuel by mixing heated air with the liquid in a confined passage, and thereafter mixing the resultant mixture of liquid and heated air with air when such first mixture is discharged from the confined passage, substantially as and for the purpose described.

1,424,542. POWER-TRANSMISSION MECHANISM. CALVIN C. WILLIAMS, Philadelphia, Pa. Filed Oct. 2, 1920. Serial No. 414,243. 3 Claims. (Cl. 74—53.)



1. The combination, in power transmission mechanism, of a shaft, a member secured thereto, a member rotatably mounted thereon, means interposed between said members for releasably clutching them together, a control member for said clutching means, said control member being rotatably mounted upon said shaft, a pinion secured to said rotatably mounted member, a pinion secured to said control member, racks intermeshing with said pinions, and means for simultaneously reciprocating said racks.

1,424,543. PADLOCK. STEFAN WILOCH, Schenectady, N. Y. Filed Feb. 2, 1922. Serial No. 533,637. 5 Claims. (Cl. 70—108.)

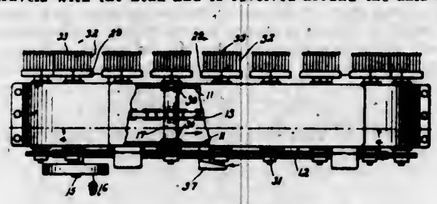


2. In a padlock of the type described, a barrel, said barrel being internally threaded and having a key opening formed in one end thereof, and a screw bolt threaded into the barrel, a shackle bolt having side legs received in a side wall of the barrel with a transverse opening formed in one of said legs, a pin carried by the screw bolt adapted to be received in the opening in the shackle bolt leg, and a key for axially shifting the screw bolt to move the pin carried thereby into and out of engagement with the shackle bolt leg.

1,424,544. PEARL-COAT-DISTRIBUTING MACHINE. WALTER D. WOOD, Cranston, R. I. Filed Nov. 26, 1919. Serial No. 340,846. 14 Claims. (Cl. 91—55.)

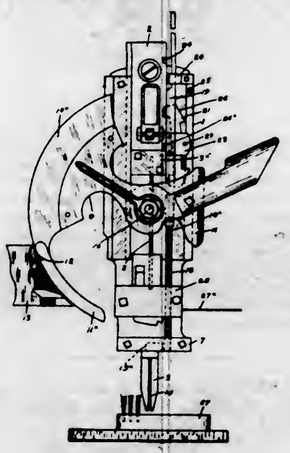
1. A machine of the character described comprising a traveling head, a carrier on the head on which a plurality of pieces of work are adapted to be mounted, means for causing said head to travel in a linear direction and also

impart a rotary motion to said carrier whereby the work travels with the head and is revolved around the axis of



the carrier, and means for automatically discharging said carrier from said head at a predetermined point in its travel.

1,424,545. BRUSH-MAKING MACHINE. CARL YAEGER, Detroit, Mich., assignor to A. Laitner & Sons, Detroit, Mich., a Copartnership composed of Edward A. Laitner, Walter C. Laitner, and Emma R. Laitner. Filed Oct. 25, 1920. Serial No. 419,281. 12 Claims. (Cl. 300—5.)



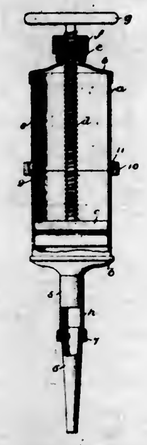
1. In a brush making machine, the combination with a bristle feeding nozzle having a longitudinal slot into its bristle feeding passage for disengagement of a tuft of bristles from the nozzle subsequent to anchoring of such tuft in a brush back, of means for delivering bristles to said nozzle, means for forcing the bristles through the nozzle and inserting them into a brush back, a member in proximity to said longitudinal slot of the nozzle providing an abutment for the bristles in their passage through the nozzle to prevent the bristles projecting through said slot, and means for moving said member in timed relation with the means for forcing the bristles through the nozzle to permit disengagement of the bristles through said slot after engagement of the bristles with the brush back.

1,424,546. ELECTRIC CURLER. MARY GREEN YEAGER, St. Louis, Mo. Filed Mar. 16, 1920. Serial No. 366,242. 1 Claim. (Cl. 132—33.)



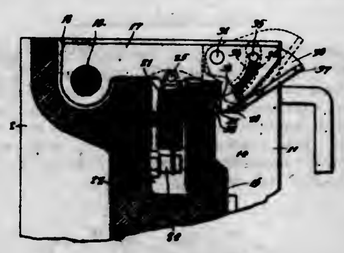
As a new article of manufacture, an electric curler comprising a heat non-conducting base; a shell of heat-conducting material; a clamp securing said shell to said base; a heating element seated in said shell; a ferrule wherein said shell is detachably mounted; a handle; a tubular sleeve extending through said handle and into said ferrule; and a plate secured to said handle and arranged to hold the curler against rotation.

1,424,547. GREASE GUN. WILLIAM A. YEAGHER, Jr., New Brunswick, N. J., assignor of one-third to Francis Mulvey and one-third to Thomas H. Howley, both of New Brunswick, N. J. Filed May 7, 1913. Serial No. 766,143. 1 Claim. (Cl. 221—79.)



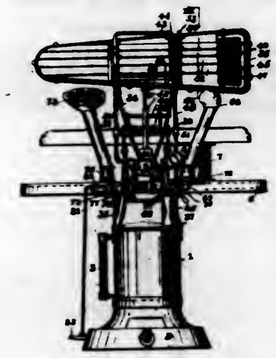
A lubricant gun comprising a pair of tubes having outer heads and open inner ends, each tube forming a relatively deep cup having the same internal diameter as the other cup, means detachably to connect said open inner ends that said tubes may be normally connected in end-to-end relation and may be separated to facilitate the filling of the lubricant gun by filling each of the deep cups independently with lubricant through the open end thereof, a nozzle for one of said tubes, a piston constructed to slide snugly in each of said tubes, and means to move the piston through said tubes to force the lubricant therefrom.

1,424,548. CASING ELEVATOR. BEN N. YOUNGKEN, Los Angeles, Calif. Filed Aug. 30, 1920. Serial No. 406,910. 9 Claims. (Cl. 294—90.)



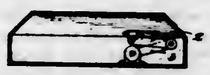
1. An elevator of the character described comprising two members hingedly united, a vertically movable latch pivoted on one member and engaging the other member to maintain the members in closed relation, and a pawl pivoted on the latch and engaging one of said members to maintain the latch against vertical movement, the pawl being adapted to swing horizontally in a latch releasing movement.

1,424,549. CLOTHES-PRESSING APPARATUS. JOHN J. ZURUK-ZURINSKY, McKeesport, Pa. Filed Sept. 10, 1921. Serial No. 499,593. 4 Claims. (Cl. 68—9.)



2. A cleaning and pressing apparatus comprising a pressing buck, means for directing steam therethrough, a pressing head, means for heating the head, a plurality of shiftable shutter elements for retaining the heat in the head, and a resiliently mounted foraminous pressing member arranged in the head.

1,424,550. BALANCING COVER SUPPORT. FREDRICK C. ASCHBURNER, Chicago, Ill., assignor of one-third to William H. Aschburner and one-third to Ernest F. Aschburner. Filed June 21, 1920. Serial No. 390,480. 2 Claims. (Cl. 217—60.)



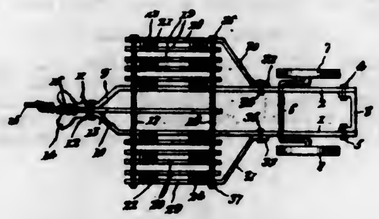
1. In a device of the class described, a stationary support, a lever, a spring for yieldingly anchoring said lever to said support, a second lever, means comprising a spring for yieldingly securing said second lever on the free end of said first member and a hinged member pivotally supported by said second lever.

1,424,551. COMBINATION POCKETKNIFE AND NAIL CLIP. ADNA F. BLANCHARD, Cranston, R. I., assignor, by mesne assignments, to Fairfield Manufacturing Company, Cranston, R. I., a Corporation. Continuation in part of application Serial No. 322,981, filed Sept. 10, 1919. This application filed Apr. 2, 1920, Serial No. 370,753. Renewed Nov. 30, 1921. Serial No. 519,030. 6 Claims. (Cl. 30—23.)



1. A combined pocket knife handle and nail clip comprising a handle body including resilient lining plates, a knife spring secured to the plates a distance from the pivot and secured to one plate a greater distance from the pivot short of the end of the spring body, said plates tending to diverge beginning intermediately of the handle, said plates being projected beyond the spring a distance and formed as clip devices, and means to compress the clip devices.

1,424,552. CULTIVATING IMPLEMENT. JOHN WILEY BRONSON, New Orleans, La. Filed June 21, 1921. Serial No. 479,334. 3 Claims. (Cl. 97—34.)



1. A cultivating implement comprising a pair of beams extending longitudinally in substantially parallel relation and being situated relatively far apart with their rear ends converging together and secured, means connecting the forward ends of the beams, supporting wheels at the forward portions of the beams, transversely elongated rods extending through the beams in spaced relation, bars adjustably mounted on said rods outwardly of said beams for receiving implements, the outermost bars having diagonal braces at their forward ends secured to said beams substantially as described.

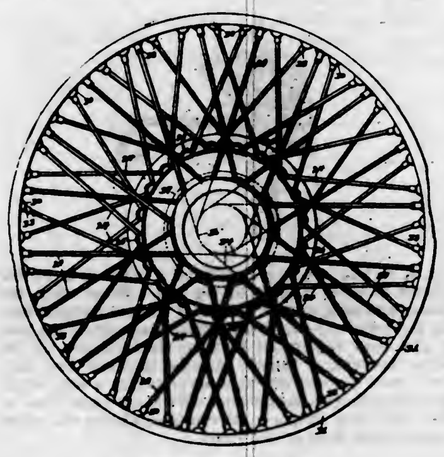
1,424,553. FIREARM. JOHN M. BROWNING, Ogden, Utah. Filed July 26, 1919. Serial No. 313,581. 35 Claims. (Cl. 42—17.)



1. In a firearm, the combination of a sliding magazine, an action-slide, a laterally movable breech-block carried by said slide and actuated by said magazine, a receiver having an ejecting-opening therein, and means for locking the breech-block in the ejecting-opening when actuated by said magazine.

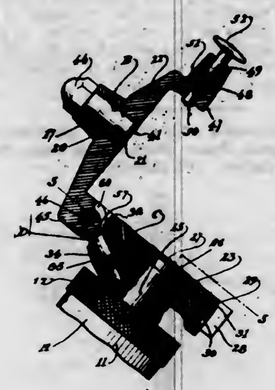
1,424,554. WIRE-SPOKED WHEEL. EDWARD G. BUDD, Philadelphia, Pa., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 7, 1918. Serial No. 238,704. 6 Claims. (Cl. 301—56.)

1. In combination, supporting means, a wheel comprising a metal hub having a portion seated on said supporting means, and a pressed out annular portion having pressed out channels with plane sides, and straight wire spokes projecting through the sides of the channels and arranged perpendicular to the sides of the channels and



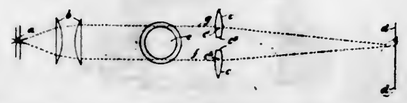
in lines substantially tangential to the hub portion seated on said supporting means.

1,424,555. TILTING AND LOCKING DEVICE FOR STEERING WHEELS. ROBERT S. BUSBY, Jacksonville, Fla., assignor of one-half to Alfred D. Richardson and Roy O. Birchy, Jacksonville, Fla. Filed June 17, 1921. Serial No. 478,369. 10 Claims. (Cl. 74—33.)



5. In a steering device, the combination with a steering post and steering wheel, of an attachment therefor interposed between the wheel and post including a pair of hingedly connected members, the members being arranged for connection respectively with the post and wheel whereby relative movement between the wheel and post is permitted, locking means for preventing swinging movement of said members in relation to each other when the steering wheel has been moved in relation to the steering post, and locking means for preventing turning movement of the members, when the steering wheel has been moved in relation to the post.

1,424,556. GAUGING APPARATUS. ARTHUR GEORGE COOKE, County of Middlesex, England. Filed Jan. 8, 1921. Serial No. 435,982. 3 Claims. (Cl. 88—29.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A screw-gauging apparatus comprising a stage on which the screw may be supported, a screen, and means for producing and projecting enlarged images of different threads of such screw in overlapping relation on said screen.

1,424,557. LUBRICATING-GREASE CUP. FRANCIS S. CRAVEN and JOSEPH MIHALYI, Washington, D. C. Filed Dec. 10, 1920. Serial No. 429,782. 3 Claims. (Cl. 184—45.)



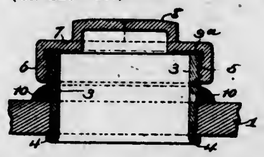
3. In an air tight lubricator of the character described, in combination, a hollow body portion provided with inlet and outlet openings at its opposite ends, a hollow movable cylindrical piston slidable within said body portion and dividing the same into upper and lower chambers, spring actuated valves for closing the entrance and outlet openings in said body portion, said piston having openings communicating with said chambers and the interior of the piston whereby as said piston is depressed to fill the upper chamber lubricant previously admitted thereto will flow into said lower chamber and be expelled past the valve at the outlet to said body portion.

1,424,558. BOTTLE. WILMOT F. CROZIER, Osceola, Nebr. Filed Aug. 29, 1921. Serial No. 496,452. 6 Claims. (Cl. 215—7.)



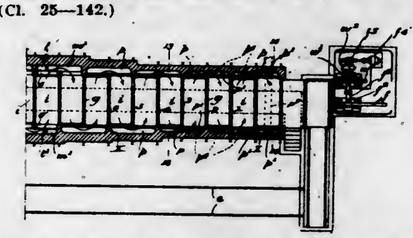
1. A bottle including a body closed at both ends and provided with lateral openings, closures for said openings, and retaining means common to both closures for holding the latter from displacement, said means being frangible to permit simultaneous removal of the closures.

1,424,559. STEAM BOILER. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Oct. 31, 1919. Serial No. 334,779. 4 Claims. (Cl. 220—39.)



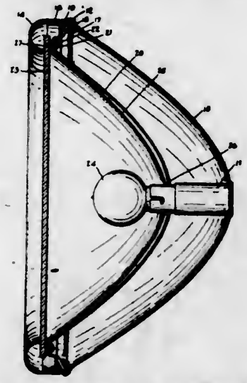
1. The combination with a boiler having a cleaning-out opening, of a nipple, said nipple being exteriorly threaded at one end and having a water-tight connection with said cleaning-out opening.

1,424,560. TUNNEL KILN. ARTHUR MCDOUGALL DUCKHAM and ARTHUR THOMAS KENT, London, England. Filed Feb. 27, 1922. Serial No. 539,636. 10 Claims. (Cl. 25—142.)



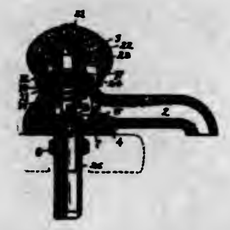
1. A tunnel kiln of the kind in which the gases have a horizontal path longitudinally of the tunnel, comprising trucks arranged so that the length of the truck is transverse to the length of the tunnel and baffle walls carried by the said trucks parallel to the length of the truck.

1,424,561. REFLECTOR-RENEWAL INSERT. HENRY F. DUNN, Indianapolis, Ind., assignor to Dunn Auto Products Company, Indianapolis, Ind., a Corporation. Filed Sept. 25, 1920. Serial No. 412,675. 2 Claims. (Cl. 240—41.)



1. A lamp having a casing, a lamp support within the casing, a reflector apertured to receive the lamp support and be supported thereby and having a peripheral flange, a lens closure mounted on said casing, a lens in said closure, an auxiliary and duplicate reflector for renewing the reflecting properties of the lamp similarly apertured and similarly supported and provided with a peripheral flange interposed between the first mentioned peripheral flange and the lens, and means for yieldingly maintaining said flanges and lens in abuttable relation to rigidly secure the same within the casing.

1,424,562. VITREOUS-CHINA COCK OR FAUCET. ARTHUR I. FISCHER, Cleveland, Ohio, assignor to Morris H. Glauber, Cleveland, Ohio. Filed Oct. 1, 1919, Serial No. 327,734. Renewed Apr. 27, 1922. Serial No. 557,031. 5 Claims. (Cl. 251—156.)



4. A cock or faucet consisting of a metal body having a screw-threaded neck at its top and a flange about the base of said neck, a spout member of vitreous material having a chambered head seated on said flange about the base of said neck and united in water-tight relation at the joints therewith, a thimble threaded into said neck having a quick internal thread, a valve having a stem rotatably engaged with said thread, and a hand-grip fixed to said valve stem having a skirting surrounding the upper portion of the head of said spout.

1,424,563. NOSE RING. ENOS GLICK, Paris, Ill. Filed May 28, 1921. Serial No. 473,334. 3 Claims. (Cl. 119—135.)



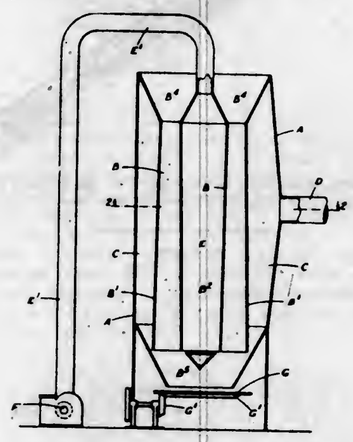
1. A nose ring for live stock comprising a ring adapted to engage the snout of the animal, a length of material coiled several times at its central portion to provide a spur bar, said spur bar being movable on the ring, the end portions of said spur bar extending in opposite directions in offset relation in the same plane.

1,424,564. TIE RACK AND COVER. EMANUEL O. GOLDSMITH, Memphis, Tenn. Filed Nov. 9, 1921. Serial No. 514,020. 4 Claims. (Cl. 211—14.)



1. A tie rack and cover comprising supporting means, pivoted arms thereon for holding merchandise, means for folding said arms, and a cover carried within the supporting means and adapted to be spread over the arms and articles carried thereby.

1,424,565. APPARATUS FOR DRYING COAL OR OTHER MATERIAL. THOMAS A. GOSKAR, Swansea, Wales. Filed Oct. 29, 1921. Serial No. 511,389. 3 Claims. (Cl. 34—34.)



1. Apparatus for drying coal or ashes or other material in a granular percolatable mass form in an upright and continuous column; comprising in combination, an upright chamber, adapted to hold therein the said material in the form of an upright column, having the walls of said chamber arranged to diverge downwardly from one another and provided with a profusion of openings therethrough; an outer casing enclosing said upright drying chamber; an enclosed space on each side of the said drying chamber; means to deliver the drying medium into said enclosed space so that it can be applied at a common temperature to the said column of material at all levels of said column in the heating zone; and means to pass said drying medium by induction through the interstices between the particles of the said mass of material to be dried, substantially as set forth.

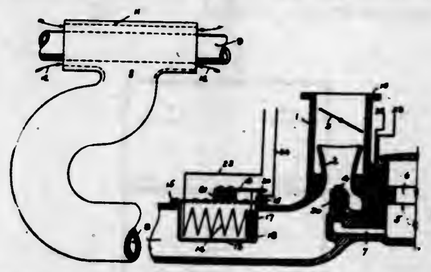
1,424,566. ROOF AND THE LIKE COVERING. WILLIAM HARRY GRIFFITHS, Hereford, England. Filed Apr. 14, 1922. Serial No. 552,555. 8 Claims. (Cl. 108—13.)



1. As an article of manufacture a sheet metal roofing-plate comprising a sheet having small openings therein, with an upstanding perimeter to each of said openings, for the purposes described.

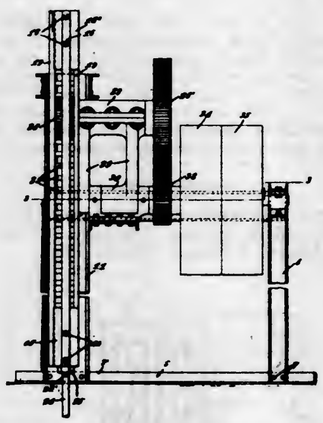
1,424,567. WARMING DEVICE FOR CARBURETORS. CHARLES D. HIGGINS, Berkeley, Calif. Filed Mar. 14, 1921. Serial No. 452,012. 14 Claims. (Cl. 219—34.)

1. In a carburetor a gasoline duct, an air inlet passage, an electrical resistance interposed in said passage and around said duct, a source of electricity, a switch and energising connections whereby the gasoline flowing in said



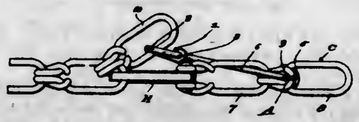
duct and the air flowing in said passage are heated by said resistance and before they commingle.

1,424,568. PUMP JACK. ERNST A. H. JACOB, San Antonio, Tex. Filed Aug. 14, 1919. Serial No. 317,522. 1 Claim. (Cl. 74—27.)



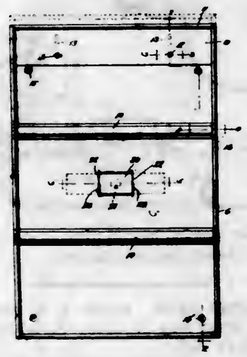
In a pump jack, a frame, guideways supported by the frame, a pump jacking including guide bars movable within the guideways, heads connecting opposite ends of the guide bars, each of the heads having a curved inner surface, side bars having connection with the heads at points intermediate the ends thereof, horizontal bars connecting the side bars, a pinion adapted to move between the horizontal bars and guide bars, an arm supporting the pinion, means for rotating the pinion, and said pinion adapted to contact with the curved surfaces of the head to move the pinion to opposite sides of the horizontal bars.

1,424,569. AUXILIARY CHAIN FASTENER. GEORGE W. JOHNSON, Gallatin, Mo. Filed Dec. 6, 1921. Serial No. 520,244. 2 Claims. (Cl. 24—73.)



1. A connector of the class described comprising a piece of heavy wire having one end bent to form a loop and the terminal thereof extended laterally and wrapped around the body portion of the wire, the other end of said wire being bent angularly at right angles and provided at its terminal with a knob.

1,424,570. **FRAME FOR ADVERTISING CARDS.** RICHARD A. JOHNSTON, New York, N. Y., assignor to Barron G. Collier, Inc., New York, N. Y. Filed Oct. 12, 1921. Serial No. 507,230. 2 Claims. (Cl. 40—125.)



1. A street car advertising frame comprising a rectangular metallic sheet provided with means for receiving and retaining the edges of an advertising card, and means for securing the intermediate portion of said advertising card to the said sheet whereby bulging of said advertising card will be prevented, said last mentioned means comprising a wooden insert, means on said metallic sheet for retaining said insert, and means for securing the card to said insert.

1,424,571. **MANICURE CASE.** SIEGFRIED HENRY KAUFMANN, London, England. Filed Oct. 19, 1921. Serial No. 508,828. 9 Claims. (Cl. 132—79.)



1. In a manicure case, a base, an upright hollow pillar mounted on this base, a vertical slot in one side of the hollow pillar to support a nail polisher in its interior, a series of loops around its exterior for the reception of various instruments and a cover adapted to fit over and enclose the whole and to engage the base so as to be held in position.

1,424,572. AWNING-ROLLER CONSTRUCTION. JOHN FIELDEN KING, Kalispell, Mont. Filed Sept. 27, 1920. Serial No. 413,122. 3 Claims. (Cl. 156—29.)

3. In a roller structure, a tube, a rod arranged therein, collars on the rod, one at each end and one at the center, the periphery of each collar being notched and there being annular grooves formed in the outer faces of the end collars, and a plurality of longitudinally adjustable truss-rods provided at their ends with heads arranged in said grooves, and adjacent said heads with reduced necks removably seated in the notches in the end heads, the central portions of the truss-rods being seated in notches in the central head which are out of circumferential



longitudinal alinement with respect to the notches in the end collars in which their opposite ends are seated.

1,424,573. CANDLE HOLDER. OLAFFA A. LARSON, Butte, Mont. Filed Feb. 17, 1920. Serial No. 359,279. 2 Claims. (Cl. 248—42.)



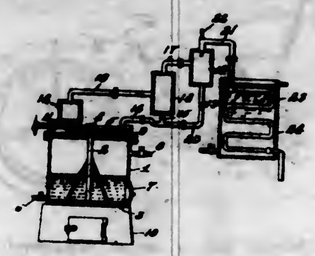
1. An integral candle holder comprising an upper open resilient helix portion to grip the body of a candle, and a lower inverted conical helix portion axially aligned therewith and having its lower end closed to receive and hold the candle wick stub when released from the melted body material of the candle.

1,424,574. **PROCESS OF CONVERTING OILS.** ALMER M. MCAFEE, Bayonne, N. J., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Sept. 30, 1913. Serial No. 792,615. 74 Claims. (Cl. 196—26.)

5. The process of converting higher boiling petroleum oils into lower boiling oil which comprises heating such a higher boiling oil together with anhydrous aluminum chlorid to boiling temperature, separating vapors of lower boiling oil formed from higher boiling oil, and condensing the vapors of the lower boiling oil.

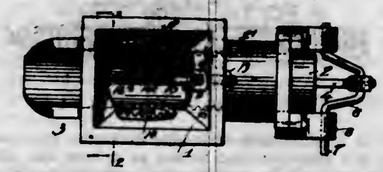
7. The process of converting higher boiling petroleum oils into lower boiling oil which comprises heating such a higher boiling oil together with anhydrous aluminum chlorid to distillation temperature, separating vapors of lower boiling oil formed from higher boiling oil, condensing vapors of lower boiling oil formed, and returning the higher boiling oil to the body of oil undergoing distillation.

29. In the treatment of petroleum oils, the process which comprises continuously distilling off low boiling vapors from a boiling body of high boiling oil containing aluminum chlorid and continuously supplying additional high boiling oil to said body.



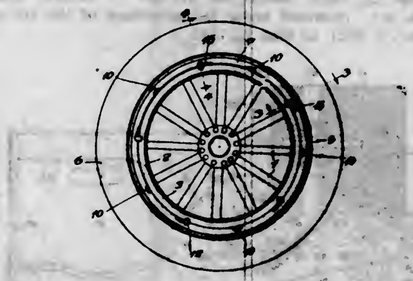
60. The process of converting petroleum hydrocarbons having higher-boiling points into naphtha, which consists in heating a mixture of said hydrocarbons and anhydrous aluminum chlorid to a temperature producing vapor of a lower boiling oil having an end-boiling point not substantially above the end-boiling point of naphtha and maintaining the mixture at such temperature.

1,424,575. **STOKER.** JAMES MACPHERSON, Jr., New York, N. Y. Filed Apr. 29, 1921. Serial No. 465,365. 7 Claims. (Cl. 259—89.)



1. A stoker having a movable ram, means to operate the ram, a member movably supported to be operated by the ram to engage coal over the ram, said ram having means to move said member sideways.

1,424,576. **LOCKING DEVICE FOR DEMOUNTABLE RIMS.** HARRY WALTER MARTIN and LANNIE MORRIS CALHOUN, Gilbert, La. Filed Mar. 30, 1922. Serial No. 548,151. 8 Claims. (Cl. 301—22.)



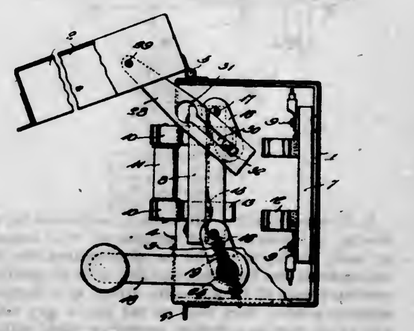
1. In combination with a wheel having a felly and a demountable rim carried thereby, of a plurality of bolts fitted transversely through the felly and having outwardly projecting heads with undercut slots, a locking ring adapted to seat against one side of the demountable rim and having wedge portions taking into the undercut slots and acting against the base walls thereof, and a yieldable catch carried by one of the bolts for engaging the ring, substantially as described.

1,424,577. **ANTIRATTLER.** JOSEPH W. MARTIN, Mora, Minn. Filed Sept. 20, 1921. Serial No. 502,011. 4 Claims. (Cl. 74—17.)



1. The combination with a steering post of an automobile including the ball arm thereof and bearing socket of the ball arm, and means connecting the steering post and arranged to bear against the bearing socket of the ball arm in a manner to prevent the disengagement of the latter from the bearing socket or the free noisy play of the ball end of the ball arm in the bearing socket.

1,424,578. **SAFETY SWITCH.** RALPH K. MASON, Bantam, Conn., assignor of one-half to John H. Lancaster, Litchfield, Conn. Filed July 8, 1919. Serial No. 309,280. 20 Claims. (Cl. 200—50.)

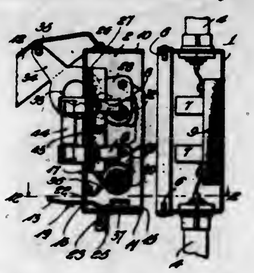


10. A switch of the character described comprising a container, relatively movable make-and-break contact members therein, the movable contact member including parallel links and a carrier pivoted at its opposite ends to relatively free ends of said links and held against angling thereby, and means for pivoting the relatively fixed ends of said links to the container, in combination with an operating handle connected axially of said relatively fixed end of at least one of the links.

1,424,579. **SWITCH CASING AND COVER LOCK.** RALPH K. MASON, Bantam, Conn., assignor of one-half to John H. Lancaster, Litchfield, Conn. Filed June 2, 1920. Serial No. 386,128. 17 Claims. (Cl. 200—50.)

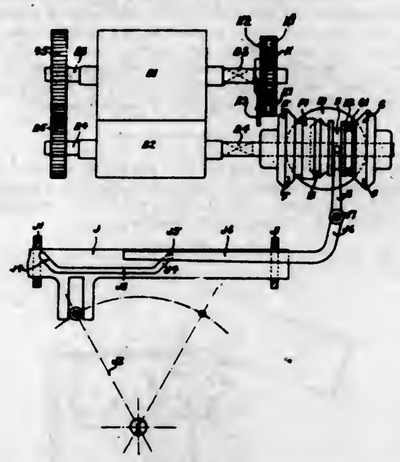
14. In a switch, a rear casing section carrying contacts, a front casing section carrying switch means,

means for detachably connecting the two sections, and means positively preventing detachment of said sections



until the switch means is entirely freed from the contacts.

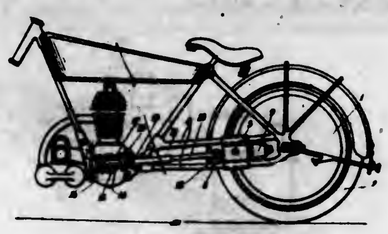
1,424,580. SLIVER-LAP-FEEDING MECHANISM. LOUIS GRIMOND MACINTYRE, Broughty Ferry, Scotland. Filed Nov. 6, 1920. Serial No. 422,157. 5 Claims. (Cl. 19—144.)



1. In apparatus for delivering a continuous lap of sliver flowing at constant speed successively to a series of two or more machines, means for interrupting the flow and for breaking the lap when the feed is to be diverted, comprising a pair of feeding rolls driven at a surface speed slightly greater than that of the lap, a gap bridged by the sliver and immediately preceding these rolls, clutch controlled mechanism for driving the rolls in the forward and reverse directions, means for operating the clutch to cause momentary stoppage and reversal of the rolls, as and for the purposes set forth.

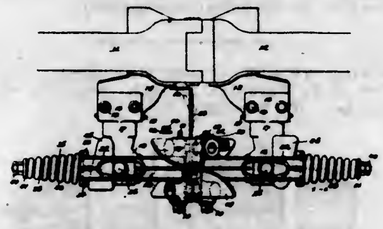
1,424,581. FRICTION DRIVING GEAR FOR MOTOR VEHICLES. GEORGE SIDNEY MEPSTEAD, Mortlake, London, England. Filed Jan. 3, 1921. Serial No. 434,715. 3 Claims. (Cl. 74—26.)

1. A driving gear for motor vehicles comprising a vehicle frame having a rigid part, a driven wheel, a conical driven disc connected to said driven wheel, a driving shaft, a conical driving member slidably mounted upon said driving shaft, a carriage adapted to support said driving member slidably mounted upon said rigid part of the vehicle frame whereby the effective gear ratio may be varied, and means for bringing increased pressure upon the driven disc during rotation of said driving shaft, said carriage being provided with means relatively movable therein whereby said driving member



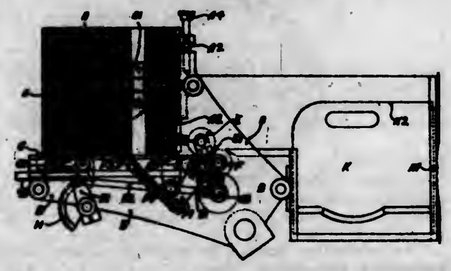
may be brought into or out of engagement with the driven disc.

1,424,582. AUTOMATIC TRAIN-PIPE CONNECTOR. BLYTHE J. MINNIS, Watertown, N. Y., and HENRY F. BICKEL, Plainfield, N. J. Filed Feb. 26, 1920. Serial No. 361,494. 13 Claims. (Cl. 285—24.)



4. In an automatic train-pipe connector, the combination of a connector-head having an orificed face adapted to be presented to a companion connector head; and a sealing element having orifices surrounded by yielding sealing means, said orifices normally registering with the orifices in said face and said sealing element being capable of removal as a unit by a sliding movement across said orificed face.

1,424,583. MACHINE FOR FLATTENING OR STRAIGHTENING BOOK COVERS OR CASES AND THE LIKE. JOHN MURRAY, London, England. Filed June 20, 1921. Serial No. 478,898. 5 Claims. (Cl. 93—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A machine for flattening or straightening book-covers or cases and the like comprising three parallel rolls with their axes passing through the apices of a common triangle, and so positioned relative to one another as to engage a case fed between them; intermeshing means between the peripheries of two of the rolls

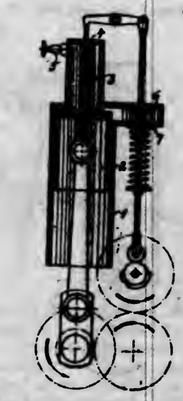
adapted to bring the axes thereof more closely adjacent and still permit of adjacent surfaces of the two rolls moving in opposite directions; means for feeding the cases successively to the rolls; and means for driving the rolls; as and for the purposes set forth.

1,424,584. FIRE-GRATE OVEN ATTACHMENT. ANDREW NELSON and OSCAR H. HINNARD, Chattanooga, Tenn. Filed Oct. 20, 1921. Serial No. 509,014. 4 Claims. (Cl. 126—137.)



1. An oven of the character described comprising a casing having a flared lateral outwardly opening extension thereon adjacent the lower and inner sides of the same, an oven within said casing having its side walls spaced from the adjacent walls of the casing to provide an air circulating way entirely thereabout, and a horizontally pivoted damper disposed longitudinally of said extension and arranged intermediately of its upper and lower sides, the outer portion of said damper extending without said extension.

1,424,585. MOTOR. HANS HENRIK NIELSEN, Kolding, Denmark. Filed Sept. 18, 1919. Serial No. 324,589. 1 Claim. (Cl. 123—75.)



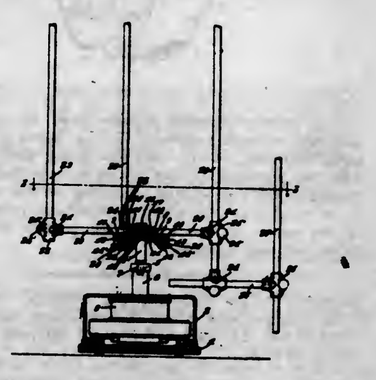
In a motor the combination of a cylinder having a piston, a cylindrical prolongation of the said cylinder forming a compression-chamber and having a volume of ⅛ to ¼ of the stroke-volume, an inlet-valve for gas-mixture placed in the upper third part of the said compression-chamber and being adapted to remain shut during the first ⅛ to ⅓ of the suction-stroke, an igniting device placed in the upper third part of the said compression-chamber, and an exhaust-valve placed at the foot of the said compression-chamber and above the said cylinder and being adapted to remain open during the first ⅛ to ⅓ of the suction-stroke, substantially as set forth.

1,424,586. PIPE JOINT. STEPHEN EUGENE PAGE, Brooklyn, N. Y., assignor to United Concrete Pipe Co., New York, N. Y., a Corporation of Delaware. Filed Nov. 7, 1919. Serial No. 336,497. 2 Claims. (Cl. 72—53.)



2. A joint for reenforced concrete pipe comprising abutting pipe ends having projecting spigots of substantially the same diameter, a sealing ring of ductile metal slipped upon and spanning said spigot ends, said ring having an expansion crimp overlying the parting of the joint, together with clamping rings engaging said sealing ring on opposite sides of said crimp and serving to secure the same to said spigot ends of the pipes, substantially as described.

1,424,587. DISPLAY RACK. JOSEPH MARTIN PERRY, Meridian, Miss. Filed Sept. 21, 1921. Serial No. 502,123. 2 Claims. (Cl. 211—20.)

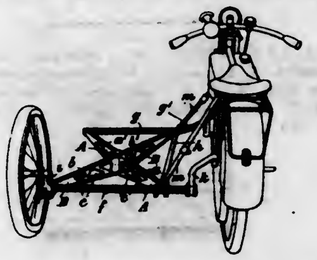


1. In a display rack the combination with a housing, a motor therein, and a stem projecting from the housing and driven by the motor, of a standard detachably engaging and rotated by the stem, a head fixedly mounted on and rotating with the standard, said head having angularly spaced clamping members, clamping plates cooperating with said members, rods interposed between the clamping members and plates and adjustably held thereby, said rods being extended tangentially to the circle of rotation of the clamping members.

1,424,588. UNDERFRAME OR CHASSIS FOR CYCLE SIDE CARS AND THE LIKE. MAURICE MARCEL PERRAS, Coventry, England. Filed Oct. 7, 1920. Serial No. 415,857. 3 Claims. (Cl. 208—45.)

1. A chassis for cycle side-cars comprising, two intersecting diagonally arranged girder-like members, said chassis having adjacent three corners thereof means for connection to the frame of the vehicle and to the side-car wheel, the fourth arm having the form of a cantilever, one of the intersecting girders having an aperture formed therein and a tongue adjacent the aperture, the other girder passing through said aperture and being

secured to the first named girder by means of said tongue, said first named girder having a channel formed



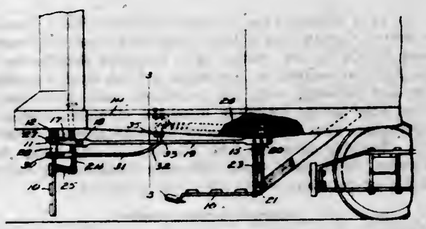
therein, and a strip secured at an angle to the second named girder and resting in said channel.

1,424,589. ROMPERS, MATTIE KELLEY REDFORD, Lexington, Ky. Filed Aug. 15, 1921. Serial No. 492,395. 5 Claims. (Cl. 2—144.)



1. A garment having a waist and leg portion permanently secured together, the leg portion being composed of front and rear sections folded upon themselves with leg openings at the lower corners thereof, a flap formed in the rear section of the leg portion and adapted to be secured to the waist portion, and pockets formed in the upper corners of the leg portion between said front and rear sections.

1,424,590. CAR FENDER OR GUARD. CHARLES F. RICHARDSON and MARK S. FERGUSON, Kokomo, Ind. Filed Dec. 28, 1921. Serial No. 525,408. 4 Claims. (Cl. 293—5.)



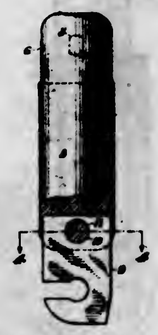
1. A car fender comprising a pivoted buffer normally disposed in vertical position, a fender member arranged rearwardly thereof, an extensible and contractible element having one end anchored and its other end attached to said member for normally tending to lower said fender, a reach rod formed of a short and a long section, pivotally connected together, said elongated section attached to said member and said short section attached to said buffer and providing means when the sections are disposed in lengthwise alinement to maintain said buffer vertical and said fender elevated against the action of said element, until said sections are swung on their pivots by the shifting of the buffer rearwardly, whereby the fender member is lowered by the action of said element.

1,424,591. SPARK PLUG. CHARLES THEODORE ROTH, Newark, N. J., and EBBERHARDT PETER NICHOLSON, Richmond Hill, N. Y. Filed May 12, 1920. Serial 380,800. 1 Claim. (Cl. 123—169.)



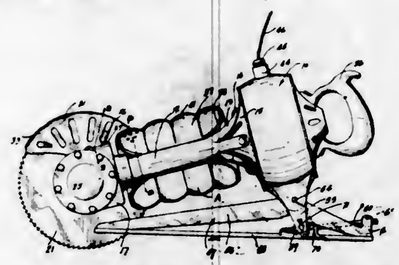
A spark plug, including a core having its side face formed with bayonet slots adjacent its upper end, a cap formed with openings adapted to encircle the upper end of said cap, said openings aligning with said bayonet slots, said slots being adapted to receive cement capable of keying into the same and through the cap openings whereby to prevent movement of the cap with said core, and means connected to said cap and associated with the core for forming a spark gap.

1,424,592. SASH WEIGHT. WILLIAM S. SANBORN, New York, N. Y., assignor to Sanborn Sectional Weight Co., Inc., New York, N. Y., a Corporation of New York. Filed July 19, 1921. Serial No. 485,800. 2 Claims. (Cl. 16—218.)



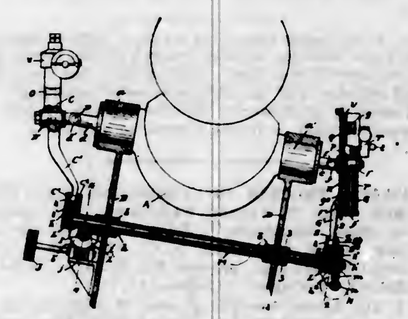
1. A sectional sash-weight comprising a body of cast-iron provided at one end with integral coupling means, a relatively flat coupling hook of malleable iron located at the other end of said body and extending into the same to an extent which corresponds to a fractional part of the axial length of said body, said malleable iron coupling hook having a major width corresponding to the cross-sectional width of the body in at least one direction and means within said body extending transversely to said major width of said malleable iron hook whereby separation of the latter from said body is resisted.

1,424,593. ELECTRICALLY-OPERATED HANDSAW, BUFFER, ETC. CHARLES SANDLIN, Denison, Tex. Filed Mar. 1, 1920. Serial No. 362,419. 4 Claims. (Cl. 143—43.)



1. In a power operated hand tool, a substantially rectangular guide block having a longitudinally extending rib formed on its outer face, a motor including a casing arranged transversely of the rib, means hingedly connecting the motor casing with the rib, a tool carried by the motor casing and operated by said motor, means for adjusting the inclination of the motor and the tool in relation to the guide block, a depending arm carried by the motor casing and disposed adjacent to the pivot point thereof, an indicator carried by the arm, and a scale carried by the outer surface of the block and arranged at one side of the rib for cooperation with the indicator.

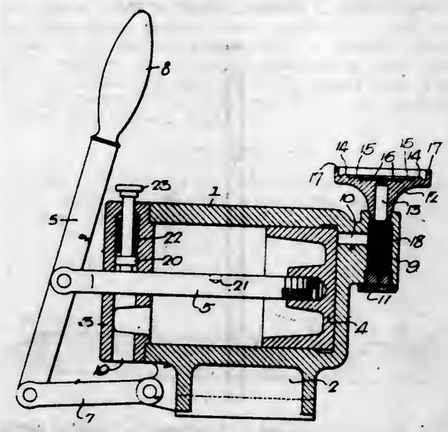
1,424,594. SIGHTING AND AIMING APPARATUS FOR FIELD GUNS, COMBINED WITH DEVICES FOR CORRECTING TRANSVERSE AND LONGITUDINAL INCLINATIONS OF THE GUN CARRIAGE. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Dec. 28, 1920. Serial No. 433,659. 14 Claims. (Cl. 33—48.)



1. In a sighting apparatus for guns, the combination of a gun carried by a cradle having trunnions journaled in a carriage, with a sighting device pivotally mounted on one of the trunnions, a range-reading device pivotally mounted on the other trunnion, means connecting the two devices for maintaining them in conjugate relation, and means for simultaneously moving both devices on their pivotal connections to position the same vertically irrespective of any transverse inclination of the trunnions.

1,424,595. CASTING MACHINE. PAUL E. SCHWARZ and THOMAS D. SALMON, Philadelphia, Pa. Filed Mar. 23, 1922. Serial No. 546,193. 4 Claims. (Cl. 22—73.)

4. The combination in a casting machine of a cylinder casting including a hollow box communicating with the interior of the casting; a mold-supporting cup mounted on said box having a passage communicating with the cavity thereof; a screen in the cavity for preventing solid



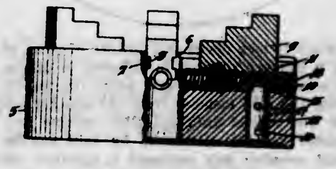
material passing into the cylinder casting; a piston in the cylinder casting; and means for actuating said piston.

1,424,596. ANT TRAP. JEFFERSON DAVIS SCRIVNER, San Benito, Tex. Filed Mar. 1, 1920. Serial No. 362,503. 1 Claim. (Cl. 43—121.)



An ant trap comprising an annular trough provided with spaced inner and outer vertical sides between which the ants are confined, said sides being provided at their upper edges with means to prevent the ants from climbing up the inner faces thereof and escaping, a drain pipe connected to the outer side of the trough adjacent the bottom thereof, and a porous plug arranged in said drain pipe for permitting water in the trough to continuously discharge therefrom without permitting escape of the ants.

1,424,597. CHUCK. HARRY E. SLOAN, Hartford, Conn. Filed May 13, 1919. Serial No. 296,852. 2 Claims. (Cl. 279—112.)



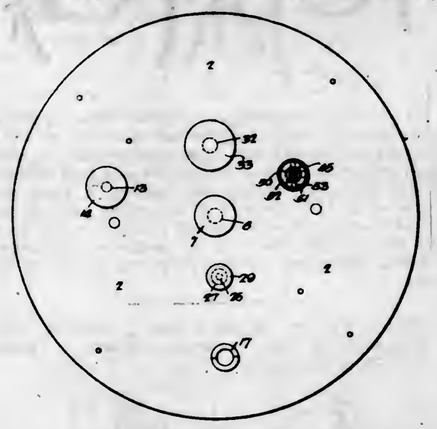
1. A chuck comprising a body having a feed screw slot opening to the face of the chuck, a jaw located on the body and projecting into said slot, and a feed screw support comprising two members engaging said screw from opposite sides, said body having a hole in the bottom of said slot in position to receive, embrace and hold in close contact the two members of said feed screw support when engaged with said feed screw.

1,424,598. STRIPPING APPARATUS FOR CARDING MACHINES AND THE LIKE. ALFRED SMITH, La Madeleine-lez-Lille, France. Filed May 7, 1920. Serial No. 379,612. 5 Claims. (Cl. 19—109.)



1. A suction operated card-stripping or cleaning device, comprising a stripping tube adapted to be arranged against the casing of a carding cylinder, and having a longitudinal slit extending over the whole width of the casing, and distributing means for permitting the exertion of the suction effort through said slit only at predetermined laterally spaced areas at successive time intervals so that the stripping of the card is effected at non-adjoining areas, and the evenness of the silver thus maintained.

1,424,599. SAFETY LOCK FOR MOTOR VEHICLES. GEORGE A. SOKOLOVE, Philadelphia, Pa. Filed Mar. 11, 1920. Serial No. 364,979. 22 Claims. (Cl. 200—43.)



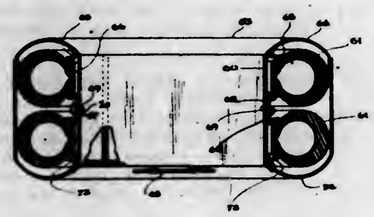
1. In a safety lock device, a plurality of pairs of spaced contacts, a member adapted in different positions to connect the contacts of each of said pairs alternately, means for moving the said member from the contact connecting positions, and means automatically operable for locking said member against movement by said moving means when said member has assumed a position connecting one of said pairs of contacts.

1,424,600. COMBINED DRILL AND SCREW SET. SYDOR SOLOF, Brooklyn, N. Y. Filed Dec. 3, 1921. Serial No. 519,587. 2 Claims. (Cl. 145—66.)

1. A brace driven tool holder consisting of a spindle exteriorly threaded and having a rectangular projection adapted to fit a recess formed in the brace, a pair of jaws associated with the spindle, a star wheel for operating the jaws, a pair of auxiliary jaws adjacent the first mentioned jaws, means for rotating the auxiliary jaws consisting of a cross bar pivoted to said auxiliary jaws and having a rectangular projection fitting a recess of similar shape formed in the lower end of the spindle screw, and means for simultaneously closing both pairs of jaws.



1,424,601. TIRE CARRIER. GEORGE W. STEWART, Loughman, Fla. Filed May 5, 1921. Serial No. 466,907. 3 Claims. (Cl. 224—29.)



1. A tire casing comprising a pair of sections constituting a tire receiving chamber adapted for the reception of a plurality of tires, and a split spacing ring received in said chamber and having transversely extending arms terminating in outwardly directed tongues adapted for supporting tires in spaced relation to each other.

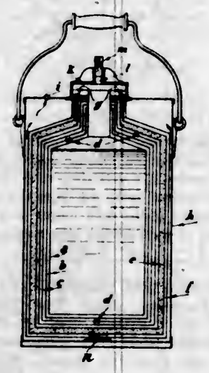
1,424,602. PROCESS OF PRODUCING ICE-CREAM MIX. PAUL W. TURNEY, Washington, D. C., assignor, by mesne assignments, to Zelma E. Turney, surviving joint tenant, Washington, D. C. Filed Feb. 8, 1921, Serial No. 443,414. Renewed Feb. 6, 1922. Serial No. 534,641. 6 Claims. (Cl. 99—11.)

1. The herein described process of producing an ice cream mix, consisting in swelling the casein particles in the milk and inducing a mutual attraction therein, and partly semi-dissolving the swelled particles through the introduction of sugar and an alkali agent.

1,424,603. ICE-CREAM MIX AND PROCESS OF MAKING IT. PAUL W. TURNEY, Washington, D. C., assignor, by mesne assignments, to Zelma E. Turney, surviving joint tenant, Washington, D. C. Filed Apr. 29, 1921, Serial No. 465,453. Renewed Feb. 24, 1922. Serial No. 539,034. 5 Claims. (Cl. 99—11.)

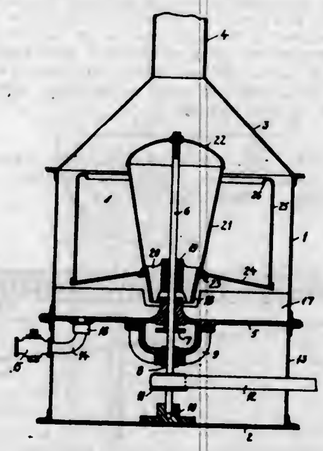
1. The method of making a filler for ice cream mix or the like, consisting in reducing the fluidity of the milk, adding thereto a proportion of alkali of such relatively small quantity as to be substantially imperceptible in the final product, and agitating the mixture to the consistency of a jelly.

1,424,604. RECEPTACLE FOR LIQUID AIR. GUILLAUME WEBER, Hayange, France, assignor to Société les Petits Fils de Francois de Wendel et Cie., Paris, France. Filed Sept. 27, 1919. Serial No. 326,978. 2 Claims. (Cl. 220—9.)



1. A portable receptacle for liquefied gases comprising an inner reservoir, a few concentric vessels arranged around said inner reservoir and in communication with each other by small openings, said concentric vessels being filled with a dead volume of atmospheric air, an intermediate casing surrounding the outer vessel and containing an insulating material, outer casings surrounding the intermediate casing and having their insides in communication with each other, a valve on the outermost casing adapted to open into the outer atmosphere, a passage affording a communication between the inside of the reservoir and the outer atmosphere, the innermost of the outer casings being in communication with said passage, a closure adapted to close the outlet of said passage and carrying means on the outermost casing.

1,424,605. COMBINED WASHING, RINSING, AND WRINGING MACHINE. ALFRED HAGBART WRIHE, Baekkelaget, near Christiania, Norway. Filed Mar. 6, 1920. Serial No. 363,684. 1 Claim. (Cl. 68—18.)



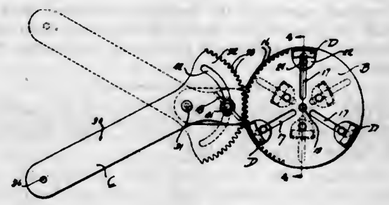
In a washing machine the combination with a container adapted to receive the washing agent, of a rotatable shaft passing through the center of said container, means for rotating said shaft, an inverted hollow cone secured to said shaft near the bottom of said container and formed with vanes inside, a perforated drum supported by the said cone, and an inverted hollow perforated second cone carried by the said first cone forming an extension thereof, the said first cone conveying the washing agent from the base of the said container to the second cone to be expelled therefrom by centrifugal force with uniform pressure into the said drum.

1,424,606. PIANO. JAMES H. WILLIAMS, Baltimore, Md. Filed July 6, 1921. Serial No. 482,719. 14 Claims. (Cl. 84—189.)



9. A piano having a sound board supporting frame including marginal and filler members of which the former have surface and depressed parallel channels extending longitudinally thereof and of which the latter have channels extending longitudinally thereof and interminal communication with one of the channels in the intersecting marginal members, the filler members being arranged with their channelled faces in spaced relation with the plane of the sound board.

1,424,607. ARTICLE HOLDER. DON CARLOS WISENBERG, Peru, Ind. Filed May 31, 1921. Serial No. 473,898. 8 Claims. (Cl. 81—3.1.)

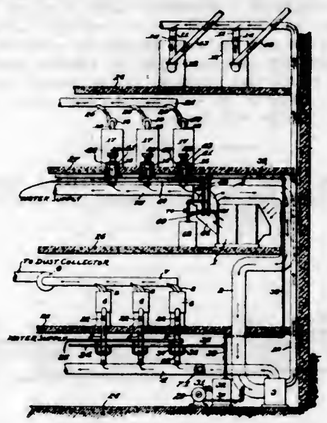


1. An article holder, comprising in combination a supporting base plate, a turn table oscillatively mounted on said plate, jaw elements on said turn table and plate, and means on said supporting plate for engaging and oscillating the turn table relative to said supporting plate, for moving said jaw elements relative to each other.

1,424,608. FLOUR-MILLING PROCESS. ALFRED W. WOOLCOTT, Coffeyville, Kans., assignor of one-half to Rea-Patterson Milling Company, Coffeyville, Kans., a Corporation of Kansas. Filed Dec. 20, 1919. Serial No. 346,290. 20 Claims. (Cl. 83—42.)

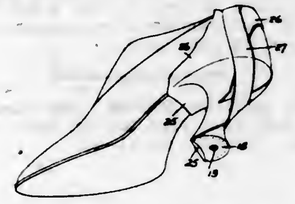
1. In the art of milling flour, the method which consists in purifying air by washing the same, thereafter,

and independently of the purifying process, controllably adjusting the moisture content of the purified air, and



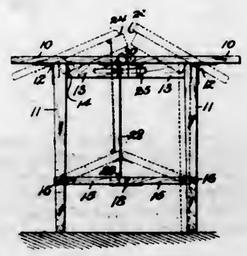
conducting the air thus treated in closed paths to the individual machines of a milling system.

1,424,609. HEEL BINDER. EDWARD WILLIAM WOOD, Brooklyn, N. Y. Filed Aug. 30, 1921. Serial No. 496,822. 6 Claims. (Cl. 12—125.)



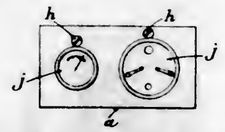
1. A heel binder of the character described, including a pair of crossed and integrally united endless elastic bands and a pressure pad located at the union of the bands.

1,424,610. FOLDING TABLE. JOSEPH K. ZIELONKO, Newark, N. J. Filed Oct. 19, 1921. Serial No. 508,690 2 Claims. (Cl. 45—116.)



1. A table comprising two members, each member comprising a top, a pair of legs hinged to the top, stringers on which the hinged ends of the lugs abut when the top is horisontal, a rod connecting the legs at their lower part, an arm hinged to the center of the rod, the members being hinged together at the tops and at the inner ends of the arms, and a stay pivoted to an arm and the top of one of the members.

1,424,611. FASTENING MEANS FOR AUTOMOBILE ACCESSORIES. MARIUS JEAN-BAPTISTE BARBAROU, Paris, France. Filed June 10, 1920. Serial No. 388,042. 2 Claims. (Cl. 248—30.)

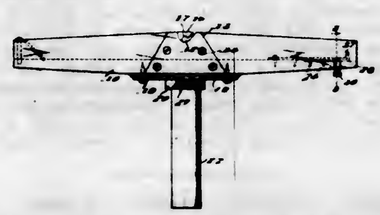


1. A fastening device for automobile accessories comprising in combination an elastic collar split transversely at one point, means for securing said collar to the dash board at a part thereof removed from the slit, a wedge like member adapted to close said collar and a screw operatively connected to said wedge like member.

1,424,612. NONCORROSIVE STEEL ALLOY. WILLIAM BELLEVILLE, Leicester, Mass. Filed June 16, 1921. Serial No. 478,145. 2 Claims. (Cl. 75—1.)

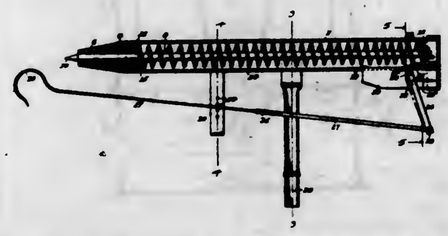
1. A non-corrosive steel alloy comprising approximately 15½% nickel, less than 1% carbon, approximately .3% silicon and .5% manganese, less than .1% each of chromium, sulphur, and phosphorus, and the principal portion of the remainder iron.

1,424,613. GRADE SIGHT. ENRIQUE JUAN BENOIST, Viña Del Mar, Chile. Filed Jan. 21, 1920. Serial No. 353,015. 5 Claims. (Cl. 88—2.3.)



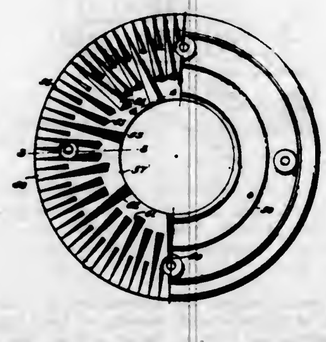
1. A grade sight of the character described, comprising a trough-shaped body portion, plates secured to the sides of the trough-shaped body portion and carrying hooks, a plum-bob detachably connected with the bottom of the body portion and depending therefrom, a scale held within the forward end of the body portion, an end sight held within such forward end in proximity to the scale, means to vertically adjust the end sight with relation to the scale, and an angularly arranged reflector held within the rear end of the body portion.

1,424,614. TRAPPER'S SPRING GUN. VERNON M. BROWN, Anthony, Kans. Filed Jan. 11, 1922. Serial No. 528,420. 1 Claim. (Cl. 43—79.)



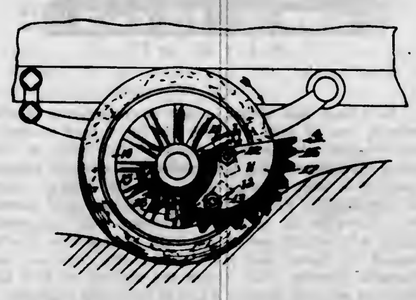
A spring gun comprising a barrel, a spring projected plunger therein, a trigger releasing said plunger whereby it may be projected beyond one end of said barrel, a bait carrier comprising a rod connected at its rear end with said trigger and at its forward end provided with a bait receiving hook disposed beyond the end of the gun, a hanger depending from said barrel and provided with a vertical series of horisontal pins, said bait carrier rod extending through said hanger and resting on one of said pins, and means for longitudinally adjusting said rod.

1,424,615. GRINDING PLATE. HARRY BUCKLEY and RAY BUCKLEY, Louisville, Ky. Original application filed Apr. 8, 1921, Serial No. 459,566. Divided and this application filed July 13, 1921. Serial No. 484,376. 3 Claims. (Cl. 83—3.)



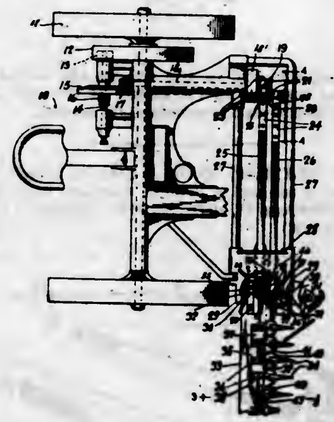
1. A grinding plate consisting of a body portion having a dished face said dished face being more abruptly dished at the periphery than toward the centre, a multiplicity of ribs triangular in cross section and having their cutting edges tangential to a circle at the center of the plate and all arranged in a common plane.

1,424,616. AUTOMOBILE EXTRICATING DEVICE. JOSEPH A. BUBON, Jr., Worcester, Mass. Filed June 16, 1921. Serial No. 478,146. 3 Claims. (Cl. 301—44.)



2. As an article of manufacture, an extricator for the purpose described, comprising a plate of a general segmental form, having a circular depression in its upper edge near one end for centering it on the hub of the wheel, and provided with means at a distance from said depression for fixing it positively to the wheel and provided with a row of transverse teeth across its bottom surface arranged in the form of a curve gradually increasing in distance from the center of said depression and extending all the way to the depression.

1,424,617. MOWER. PHILIP A. CAMPBELL, FRED F. EBY, and SAMUEL H. PRICE, Edmonton, Alberta, Canada; said Campbell and Price assignors, by mesne assignments, to Canadian Farm Implement Company, Limited, Vancouver, British Columbia, Canada, a Corporation of Canada. Filed Jan. 18, 1919. Serial No. 271,846. 1 Claim. (Cl. 56—297.)



In a mowing machine, a wheeled frame, a hollow head carried thereby, a shoe pivotally secured to the head, said shoe having its upper edge at its rear end depressed and being formed outward of the depression with a transverse lug, a finger bar secured in the depression, guard fingers thereon having their upper faces recessed, a lower sickle bar contacting the edge of the finger bar received in the recesses and resting on the shoe inward of the lug, a second sickle bar disposed over the first mentioned sickle bar, cutting blades on the confronting faces of the sickle bars, having their confronting faces concaved inwardly from their cutting edges, notched keeper members secured on the finger bar and receiving the upper sickle bar, said upper sickle bar at the portion thereof overlying the shoe having a widened portion which rests on the lug of the shoe, the lower sickle bar at the portion thereof arranged over the shoe having a lateral flange which rests on the portion of the finger bar connected to the shoe, lipped guide members secured to the shoe contacting the outer edges of the widened and flanged portions of the sickle bars and resting thereover, upstanding plates on the flanged or widened portions of both of the sickle bars, a flange on the plate for the lower sickle bar overlying the upper sickle bar, ball heads on the upstanding plates of both of the sickle bars, pitmen rods having their ends received in the hollow head, metallic straps projecting therefrom and having cup sockets to receive the respective ball heads, means for compressing the respective pairs of straps for regulating the frictional engagement between the sockets and the heads, a shaft revoluble on the machine, a flat wheel on the front end thereof, a stub shaft projecting therefrom, an arm centrally journaled thereon and having its end provided with ball heads, a link secured to the stub shaft, a stub shaft on the outer end of the link, an arm centrally journaled on the second mentioned stub shaft and having its ends provided with ball heads, and strap members on the respective pitmen extending therefrom and having cup-shaped sockets receiving the ball heads of the respective arms, and compressing means for the respective pairs of straps.

1,424,618. DENTURE RELINER. THOMAS W. CAREY, Jr., New Orleans, La. Filed Feb. 2, 1920. Serial No. 355,841. 1 Claim. (Cl. 32—4.)

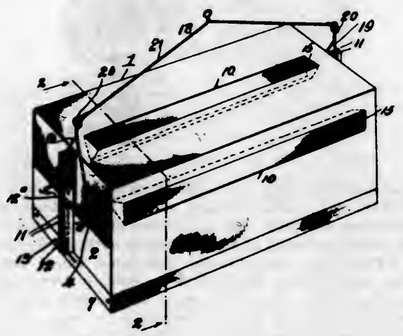
A dental plate formed of a non-metallic substance having a groove formed therearound adjacent its inner sur-

face, said groove formed with undercut walls and undercut recesses formed in both faces of said plate, said plates on the toothed side have a marginal groove formed therein,



metallic pieces located in said recesses and having their outer faces flushed with the surface of the plate and a coating of electro-plating covering said surface.

1,424,619. FLYTRAP. CLYDE A. CARLYLE, Detroit, Mich., assignor of one-half to Belle D. Cleghorn, River Rouge, Mich. Filed Aug. 13, 1921. Serial No. 492,055. 5 Claims. (Cl. 43—118.)

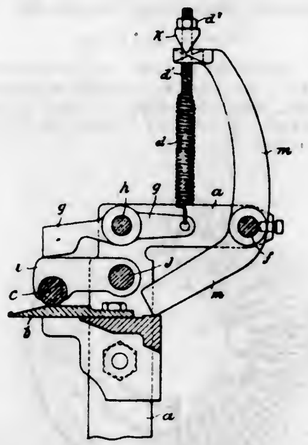


1. In a trap of the class described, the combination of a body and a bottom, said body and bottom each provided with a slot structure, each slot structure including a pair of end caps, each end cap comprising converging sides, a back integral with said sides, and a base integral with the back and sides.

1,424,620. PROCESS FOR THE EXTRACTION OF THE CELLULOSE FROM VEGETABLE FIBERS. BENIAMINO CATALDI, Turin, Italy, assignor to Alessandro Pomilio, New York, N. Y. Filed May 17, 1921. Serial No. 470,428. 6 Claims. (Cl. 92—9.)

1. A process for the extraction of the cellulose from vegetable fibers by treatment with chlorine gas, characterized by the fact that the material to be treated, in its natural state if straw, esparto grass, jute, cotton and the like, or after removing the bark in the case of wood, is subjected to leaching in a digester, if required under heat, by means of an alkaline bath under heavy pressure, first hydraulic and then steam pressure; whilst the said material, after having been brought in a suitable state of subdivision, if required, is placed in another digester lined with material impervious to acid, and subjected to repeated successive treatments with chlorine gas alternating with water baths, these baths serving to cool the mass under treatment and to eliminate therefrom the hydrochloric acid formed by the action of the chlorine gas; these successive treatments with chlorine gas alternating with water baths being repeated until the temperature of the mass under treatment remains stationary; while the material, after the final washing, is subjected as usually under atmospheric pressure, to a final leaching with an alkaline bath exactly like the first, after which the incrusted substances are found to be eliminated and the pure cellulose remains.

1,424,621. COMBING MACHINE. JAMES WILLIAM CLEGG, Oldham, England. Filed Feb. 12, 1920. Serial No. 358,291. 2 Claims. (Cl. 19—119.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a cotton comber, the combination of a lap feed roll, a pair of levers pivoted centrally of their length, a spring engaging one extreme end of each of said levers thereby to exert pressure through the opposite ends of the levers on the ends of said roll, means for adjusting the tension of said springs, and removable means for maintaining the adjusted tension of the springs.

1,424,622. BOOK COVER AND BINDER. ROBERT J. CROSS, Pittsburgh, Pa. Filed Sept. 3, 1919. Serial No. 321,445. 9 Claims. (Cl. 129—13.)

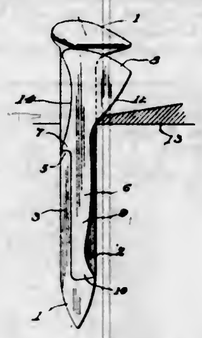


1. In a loose leaf binder, a pair of cooperating binding elements, one of said elements having a pair of spaced walls formed with notches therein, the other of said binding elements having a threaded rod thereon adapted to engage in said notches, an adjustable member receivable between the walls of said first element and threadedly adjustable on said rod, whereby said adjustable member will engage one of the walls of said first binding elements to clamp said binding elements together, said adjustable member lying within the confines of said first mentioned binding element when in clamping position.

5. In a loose leaf binder, a binding member on which loose leaves are laid, an aligning stud slidably mounted in said member for engaging in the eyelets in said loose leaves and adapted to be wholly contained within said member, and means projecting the stud outwardly from the member.
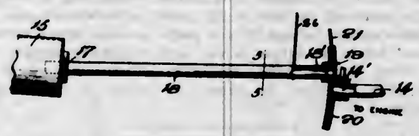
1,424,623. RAIL SPIKE. HERBERT O. CRIPPEN, Jacksonville, Fla. Filed Sept. 11, 1920. Serial No. 409,519. 4 Claims. (Cl. 85—23.)

1. In combination with a rail spike provided with a rib having a convex seat thereon, an anchoring element having a concave portion arranged on the seat for movement and having one end shaped to be moved by the rail



in the driving of the spike and its other end shaped to penetrate the tie.

1,424,624. MUFFLER CUT-OUT. WILLIAM H. CRYAN, Woonsocket, R. I., assignor of one-sixth to Romeo J. Danis, one-sixth to William F. Fox, one-sixth to Harold B. Findlay, and one-half to George F. Verhulst, all of Woonsocket, R. I. Filed Oct. 17, 1918. Serial No. 258,599. 6 Claims. (Cl. 251—123.)



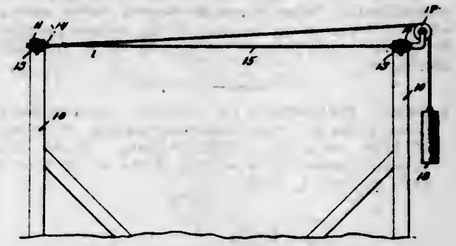
1. In combination, an exhaust pipe of an internal combustion engine, a connecting pipe for communicating the discharge end of said exhaust pipe with a muffler, and means for moving said connecting pipe away from position opposite the adjacent end of said exhaust pipe to thereby uncover the end of said exhaust pipe and cause the same to discharge the exhaust directly to the atmosphere.

1,424,625. ROTARY GLASS CUTTER. CARL F. DOERR, Yonkers, N. Y. Filed Jan. 14, 1922. Serial No. 529,183. 5 Claims. (Cl. 33—27.)



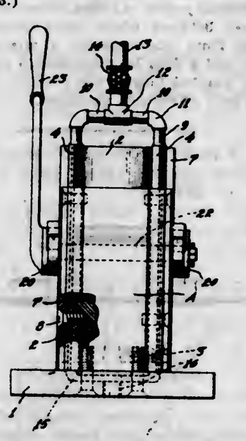
1. In a cutting implement having a plurality of cutters adapted to be selectively brought into cutting relation, embodying a cutter bar, a carrier sleeve longitudinally adjustable thereon, a stationary abutment at one extremity thereof, an axially movable abutment thereon, a cutter head mounted for axial and rotary movement on the sleeve between said abutments having circumferentially spaced cutters projecting from the periphery thereof and interengageable means on the confronting faces of the stationary abutment and the cutter head adapted to lock said elements against relative axial and rotary movement upon clamping engagement of said cutter head between the stationary and movable abutments.

1,424,626. CLOTHESLINE. EUGENE P. DORE and JOHN A. KOHN, North Fond du Lac, Wis. Filed Oct. 25, 1921. Serial No. 510,205. 1 Claim. (Cl. 68—3.)



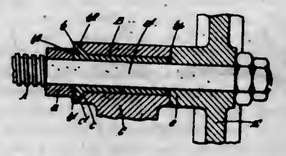
In a clothes line, spaced horizontally arranged supporting arms, pulleys rotatably mounted within openings provided in the arms, said openings providing a combined housing and guide, a line having one end secured to one of the supporting arms and passing around said pulleys and a weight secured to the opposite end of the line.

1,424,627. MOLD. HERBERT W. DREWS, Danville, Ill. Filed June 13, 1921. Serial No. 477,212. 8 Claims. (Cl. 22—123.)



1. A mold of the class described comprising a member having a part thereof of the same curvature as the curved face of the journal to be relined, strips on the said member spaced apart a distance equal to the width of the lining and means for circulating cooling fluid through the strips.

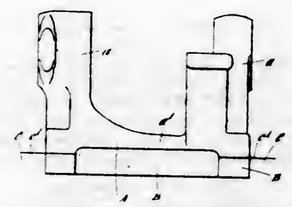
1,424,628. ABUTMENT FOR THE LEAD SCREWS OF LATHES. ARTHUR DRUMMOND, Ryde's Hill, near Guildford, England. Filed July 27, 1921. Serial No. 487,976. 1 Claim. (Cl. 64—25.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In a lathe, a lead screw, an abutment on the lead screw, a lead screw bearing having a conical seating at

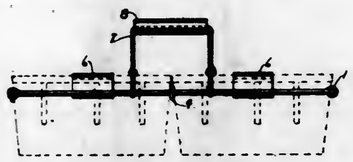
the abutment end, and a stationary sleeve in the said bearing, which sleeve is formed with an accurately faced flanged end adapted to receive the thrust of the screw abutment, the rear part of the flange having a small conical surface fitting closely in the said conical seating, whereby the necessary accuracy of the abutment support is obtained independently of the facing of the main bearing.

1,424,629. HEADSTOCK OF LATHES. ARTHUR DRUMMOND, Rydes Hill, near Guildford, England. Filed July 27, 1921. Serial No. 487,977. 1 Claim. (Cl. 82—28.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



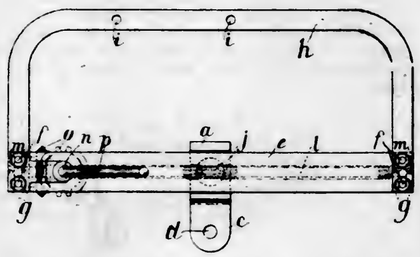
A detachable headstock for lathes, comprising a base, a pair of stepped pulley carrying limbs cast in one piece with the base, between which limbs the base is reduced in thickness from one limb to a minimum near the second limb, and a deep longitudinal rib on the underside of the base, adapted to give the requisite rigidity to the base at the part of reduced thickness.

1,424,630. CARRIER. ORRIN O. EATON, Watsonville, Calif. Filed May 31, 1921. Serial No. 473,879. 4 Claims. (Cl. 224—48.)



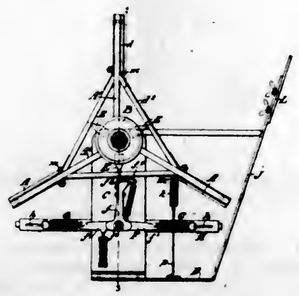
1. A basket carrier comprising a rectangular wire frame, cross wires arranged thereon whereby to form basket receiving spaces, and means carried by said cross wires to engage the baskets a distance below the upper edges thereof.

1,424,631. DRAWBAR COUPLING FOR TRACTORS. PERCY JAMES EDMONDS, Winchester, England. Filed May 28, 1921. Serial No. 473,443. 2 Claims. (Cl. 280—33.10.)



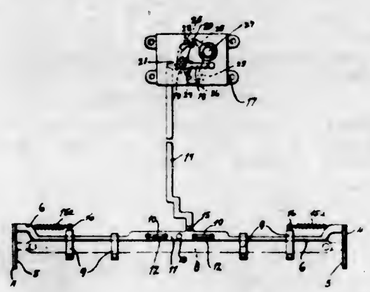
1. A draw-bar coupling, comprising a coupling link to engage the draw-bar of the implement and having a cylindrical recess therein, a guide designed to be fixed transversely of the tractor and to engage the said link so that the latter can be moved along it, a cylindrical nut fitting within the recess in the link so that the latter can swivel thereon, a worm carried by the guide and engaging the nut and means for rotating the worm, to traverse the nut and coupling link, substantially as described.

1,424,632. TARGET FOR SMALL-ARMS PRACTICE. CECIL FENTON, Brocton, England. Filed Oct. 9, 1920. Serial No. 415,867. 8 Claims. (Cl. 124—15.)



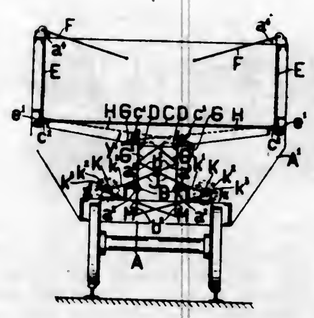
1. A target for small arms practice, adapted to disappear under the impact of a bullet, comprising a target plate mounted to turn freely upon a horizontal axis, a counterweight to such target plate, an arm which moves round when the target moves back under the impact of a bullet, and a spring acting to impel said arm in a direction to cause the target to return to its normal position.

1,424,633. SAFETY DEVICE FOR AUTOMOBILES. WOJCIECH FIAL, Harvey, W. Va. Filed Oct. 2, 1920. Serial No. 414,328. 1 Claim. (Cl. 188—31.)



A lock for vehicles, comprising in combination with the axle and wheels thereof, of a toothed collar fixed to the inner ends of each of the wheel hubs, a pair of alined bars mounted to slide in opposite directions on the upper surface of said axle, toothed elements formed on the outer ends of said bars engageable with said collars, said bars having bevelled inner ends, a bar cam pivoted on said axle having its faces adapted for engagement with the said bevelled ends, links connecting said cam with each of said bars whereby they may be retracted, a rod operatively engaged with said cam, a hand lever for actuating said rod, means normally preventing movement of said lever, said means including a toothed ratchet wheel and a pair of pawls engaging opposite side thereof and means for retracting both of said pawls simultaneously.

1,424,634. DUMPING RECEPTACLE. FRITZ FINCKH and PAUL KRÜGER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Aug. 29, 1921. Serial No. 496,461. 10 Claims. (Cl. 105—260.)

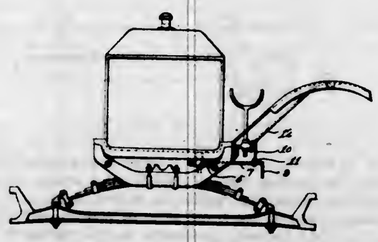


1. A dumping receptacle of the class described having an underframe, a bottom tiltable to either side, two side walls, force-closed hinged connections between the side walls and the bottom, said connections on the one hand releasing the side wall at the discharge side when the bottom is tilted, and, on the other hand, transferring the movement of the bottom on to the side wall at the opposite side, and means permanently connected to each side wall and actuated by the tilting of the bottom for rocking outwards the side wall at the discharge side when the bottom is tilted.

1,424,635. PIGMENT AND METHOD OF PRODUCING SAME. PETER FIREMAN, Trenton, N. J., assignor to Magnetic Pigment Company, a Corporation of New York. Filed May 31, 1919. Serial No. 301,028. 8 Claims. (Cl. 134—59.)

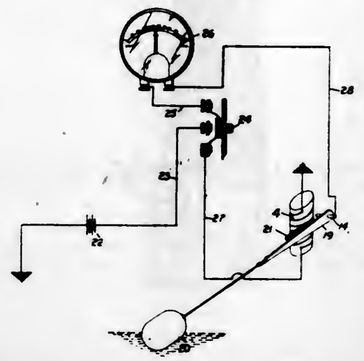
1. A method of preparing colored pigments, which comprises precipitating ferrous hydroxide from an iron-containing solution, oxidising the precipitated ferrous hydroxide in the mother liquor and controlling the oxidation by limiting the temperature of the mother liquor during the early stages of oxidation to a point below that at which black oxides form.

1,424,636. DRAINING DEVICE FOR MOTOR-VEHICLE RADIATORS, ETC. JACK FISHER, Buffalo County, Nebr. Filed Feb. 8, 1922. Serial No. 535,020. 1 Claim. (Cl. 137—139.)



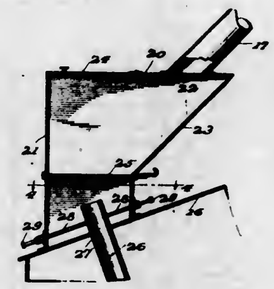
In combination with a motor car having a depending drain-cock located within the bounds of the chassis, a shaft connected to the plug of the cock by a universal joint and extending outwardly beyond the chassis and provided at its outer end with a crank for rotating it, and a hanger at the outer end of the shaft consisting of an open hook slidably mounted on the shaft between the crank and the universal joint.

1,424,637. ELECTRIC GAUGE. EDSON F. GALLAUDET, Providence, R. I. Filed Sept. 26, 1917. Serial No. 193,258. 5 Claims. (Cl. 219—48.)



1. In an electric gauge, a float-controlled rheostat comprising as elements thereof a spool of non-conducting material, a resistance coil wound upon the spool and secured in position thereon, a float, and a brush mounted to move with the float to sweep one side of the resistance coil and of a width to bridge two adjoining turns thereof.

1,424,638. AUTOMATIC FEED DEVICE FOR PEARLING CONES. FRANK E. GIOZZA, New Orleans, La. Filed Mar. 28, 1921. Serial No. 456,089. 1 Claim. (Cl. 83—44.)



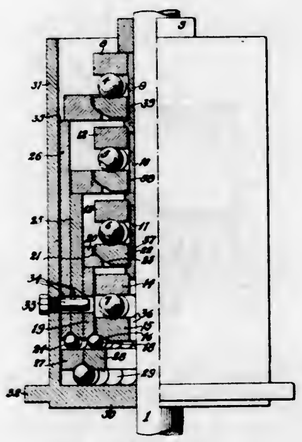
In a device for feeding dry material by gravity onto a horizontally rotating surface within a machine having a top plate spaced above said surface, said device including a feed box seated on the top plate and having an upper intake, an upright tubular discharge member for the feed box shiftable in the direction of its length through an opening in the said top plate, said discharge member opening at its upper end into the feed box and at its lower end below the top plate and having lengthwise series of apertures in its upper portion within the feed box, and supporting rods extending through opposite side walls of the feed box above the top plate and into selected threaded apertures of the discharge member whereby to support the lower end of the latter in selectively spaced relation to the said rotating surface onto which it discharges.

1,424,639. GLOVE. SIMONE AUGUSTINE GUERIN, New York, N. Y. Filed May 26, 1921. Serial No. 472,778. 4 Claims. (Cl. 2—9.)



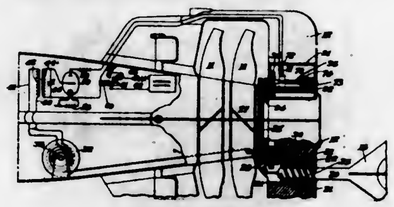
1. A glove having a cuff portion provided with a pocket on the outer front face of the cuff, such pocket being adapted to contain small articles and having its opening toward the palm of the glove to permit the articles to drop into the palm.

1,424,640. THRUST BEARING. SAMUEL N. HALL, Los Angeles, Calif. Filed Aug. 16, 1920. Serial No. 403,918. 6 Claims. (Cl. 64—49.)



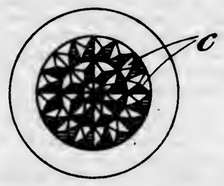
1. In thrust load receiving devices having a plurality of bearings each comprising relatively rotating members, the combination of means for equalizing the load among the bearings comprising a series of balls disposed between oppositely inclined annular faces of the parts of a pair of bearings in such manner as to be moved radially by the bearing carrying the greater portion of the load against the bearing carrying the lesser, thereby obtaining an equalization of the load between them.

1,424,641. MARINE TRAILER FOR RADIANT-ENERGY RECEIVING SYSTEMS. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Dec. 23, 1918, Serial No. 267,992. Renewed Dec. 24, 1921. Serial No. 524,730. 17 Claims. (Cl. 114—21.)



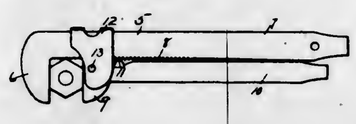
1. The combination of a marine body, a trailer connected to said body and arranged for radiant energy signalling purposes, means for automatically detaching said trailer from said body, and towing means for said trailer.

1,424,642. GAUGE GLASS. JOHN H. HANLON, Somerville, and WILLIAM J. HANLON, Fitchburg, Mass. Filed Mar. 7, 1918. Serial No. 220,948. 7 Claims. (Cl. 73—54.)



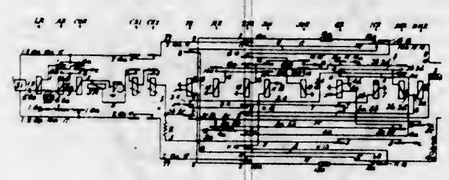
1. In a water gauge for boilers the combination of a body having an opaque rear face and a sight opening closed by a cylindrical glass the interior face of which is furnished with a plurality of projections disposed in a plurality of concentric circles, said projections being also disposed in such manner that they avoid straight line rows in any direction.

1,424,643. WRENCH. WILLIAM E. HAWKINS, Jr., Pelham, N. Y. Filed June 7, 1921. Serial No. 475,630. 5 Claims. (Cl. 81—78.)



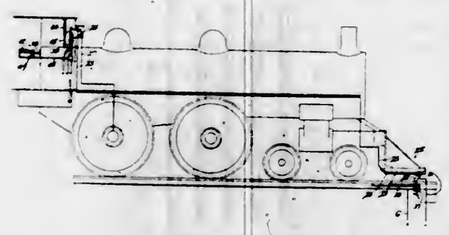
1. A wrench comprising a fixed jaw member including a jaw projecting from its front edge and a supporting extension therefrom having a holder edge, a carrier of U-shape open at its front edge to receive said extension and to slide thereon, a movable member pivotally mounted between the side parts of said carrier at the front edge of the fixed jaw member and including a movable jaw and a handle rigidly secured thereto to effect pivotal action thereof, said handle projecting from said jaw substantially parallel with the other handle in the grasping position of the jaws, and a detent upon said movable member adapted to engage said holder edge.

1,424,644. TELEPHONE SYSTEM. HENRY JAMES HERINK, London, England, assignor to The Relay Automatic Telephone Company, Limited, London, England. Filed Nov. 10, 1916. Serial No. 130,551. 12 Claims. (Cl. 179—27.)



1. In automatic and semi-automatic telephone systems, the combination of subscribers' lines, battery feeding devices, discriminating means adapted in one condition to connect battery feeding devices to the lines of calling and called subscribers, and to place the control of the release of the connection with the calling subscriber, and in another condition to cut off said device from a calling line, and to place the control with an operator, means for altering the condition of such discriminating means, a third conductor circuit and a relay in said circuit adapted on the circuit being extended to an operator to maintain the partially complete connection against release.

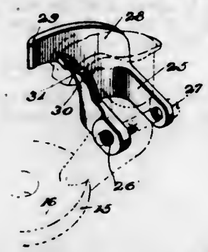
1,424,645. TRAIN STOP. WILLIAM E. HIGGINS and GEORGE S. MANN, Portsmouth, N. H. Filed Nov. 19, 1920. Serial No. 425,207. 8 Claims. (Cl. 246—187.)



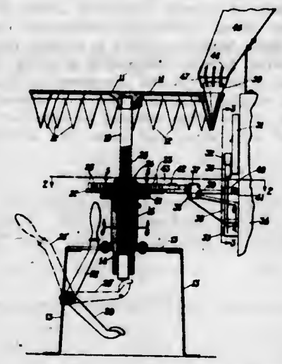
1. The combination with a signal, of an automatic train stop mechanism including electrically controlled throttle operating and brake operating mechanisms, of a plurality of air controlling valves, including a brake controlling valve and a throttle controlling valve, a rock shaft, spring actuated means connecting the rock shaft with the valves for operating the latter to close the throttle and apply the brakes, a pivotally mounted electrically operated trip and a finger carried by the rock shaft and engaging the trip to hold the valves in closed position until the trip is operated.

1,424,646. ATTACHMENT FOR SPINDLE BEARINGS. ROBERT H. HUGHEY, Greenwood, S. C. Filed May 4, 1921. Serial No. 466,676. 6 Claims. (Cl. 118—65.)

6. In combination, a rotatable spindle, a post bearing for rotatably supporting the lower end of said spindle, said post bearing having an extension formed therewith serving as an oil reservoir and said extension being in close proximity to the spindle, a pulley carried by the spindle and positioned adjacent the post bearing and about which a belt passes for rotating the spindle, an attachment adapted to be secured to the extension of the post bearing and to serve for preventing upward movement of the spindle, said attachment consisting in a U-shaped clip, the leg portions of which are adapted to straddle the oil reservoir extension of the post bearing, means for clamping the legs about the oil reservoir extension, and a finger extending from the bridge portion of said clip adapted to be disposed in close proximity to the upper side of the pulley.

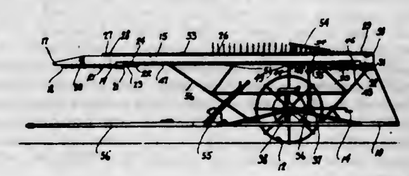


1,424,647. NESTING DEVICE. ISAAC ISRAEL, New York, N. Y. Filed May 10, 1921. Serial No. 468,404. 20 Claims. (Cl. 107—45.)



1. In a receptacle nesting device, in combination, a revoluble table carrying receiving members for receptacles, means for interrupting the revolution of the table, means for depositing a receptacle within a receiver at each period of non-revolution of the table and means whereby the table will be given a downwardly vertical movement by its revolution.

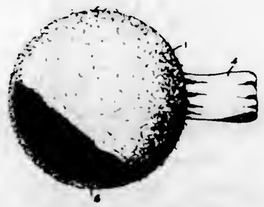
1,424,648. HEADER. MAT W. KESTERSON, Goree, and JAMES H. LATIMER, Weinert, Tex. Filed Dec. 22, 1919. Serial No. 346,731. 1 Claim. (Cl. 56—59.)



A grain heading machine comprising a wheel supported body, a conveyor frame transversely of the latter and mounted thereon, a cutter located at the forward end of the conveyor frame for severing the head of the grain from the stalk, an inclined arm carried by the wheel supported body and extending upward beneath the conveyor frame at the rear of the cutter for guiding

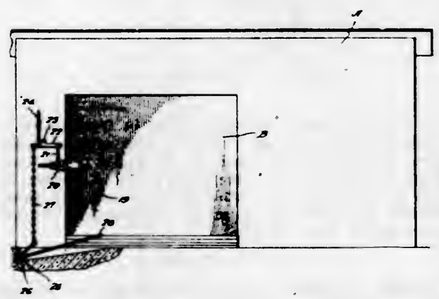
the stalk of the grain to one side of the conveyor frame, means for conveying the headed grain to the rear end of the machine, a cutter located at said rear end and means located in advance of the last mentioned cutter for causing all of the heads to pass the latter at a predetermined elevation.

1,424,649. POWDER PUFF. WILLIAM KROHN, Buffalo, N. Y. Filed Dec. 28, 1920. Serial No. 433,701. 1 Claim. (Cl. 132—78.5.)



As a new article of manufacture, a powder puff comprising a pair of loosely fabricated pieces of material having their edges connected throughout the greater portion of their length to form a baglike receptacle, a finger receiving handle comprising a strap having its opposite end attached to the unconnected edges of said pieces, and readily separable fastener elements carried by the ends of the strap adapted to detachably connect the ends of said strap and close the mouth of said receptacle.

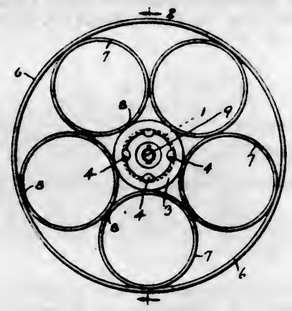
1,424,650. GARAGE-DOOR-OPERATING MECHANISM. ANTHONY KUBIK, Dickinson, N. Dak. Filed Feb. 21, 1921. Serial No. 446,675. 1 Claim. (Cl. 292—94.)



In combination with the sliding door of a building normally urged to open position, a catch member carried by an edge of the door, a lever pivoted intermediate its ends upon the door jamb above said catch member and spring pressed in one direction, a vertically movable keeper normally cooperating with said catch member whereby to hold the door closed, a link pivotally connected with the keeper and with one end of said lever, a treadle located within the approach to the door, and a flexible member connected with said treadle and with the other end of said lever.

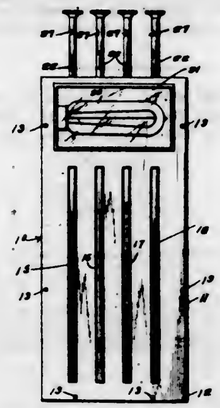
1,424,651. WIRE REEL. EDWARD FULDA, New York, N. Y. Filed July 12, 1920. Serial No. 395,615. 11 Claims. (Cl. 242—70.)

8. A reel comprising a metal hub and hub plates, wire rings curved to the periphery of the reel and filler members consisting of wire rings disposed in the same plane and within the first-named rings and engaging along their curved surfaces with the insides of said first-named rings



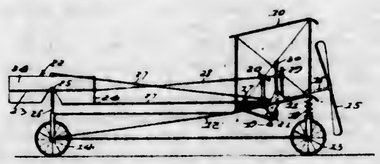
and with one another and with the curved periphery of the hub plates.

1,424,652. VEHICLE SIGNAL. JOHN H. KALBY, Schenectady, N. Y. Filed June 6, 1919. Serial No. 302,280. 3 Claims. (Cl. 116—53.)



1. A signalling device having a signalling arm, a rod on which the arm is journalled, an actuating means eccentrically connected to the arm adjacent an upper corner thereof, means to urge the arm upwardly to a retracted position, and means to secure the arm in a projected position counter to said means automatically engageable with and releasable from said arm through movement afforded by the actuating means.

1,424,653. AIR CYCLE. LABAN B. KINNARD, Jacksonville, Tex. Filed Dec. 7, 1920. Serial No. 428,904. 1 Claim. (Cl. 244—14.)



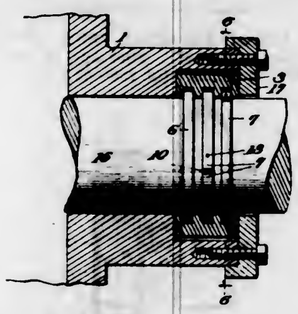
An air cycle having air planes and a propeller, a steering mechanism consisting of a fan provided with radially disposed blades of which two are vertical and two are horizontal, the fan being universally mounted at a point intermediate the length of the blades, and control means for the fans consisting of a pivotally mounted transversely disposed handle bar, crossing rods having terminal pivotal connections with the extremities of the handle bar and with the forward outer edges of the horizontal blades, a hand lever, and a rod connecting the hand lever with the upper of the vertical blades, the last said rod having a pivotal connection with the vertical blade at the upper edge of the latter at a point intermediate its length.

1,424,654. HAIR FASTENER. SARAH MAY KITSON, Philadelphia, Pa. Filed Feb. 11, 1921. Serial No. 444,095. 1 Claim. (Cl. 132—46.)



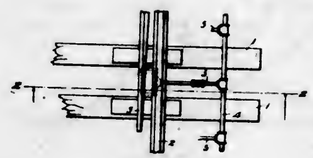
A fastener for the hair comprising a band, a hair engaging hook at one end of said band having a struck up portion forming a second hook, a rigid tab on the other end of said band having an eye for engagement with said second hook for securing together the two ends of the band, said tab being provided with a traverse slot for engaging said band and permitting longitudinal motion thereof and having a longitudinal projection adapted to be engaged by the fingers to facilitate engagement of said eye and said second hook, and means in addition to the elasticity of said band for adjustment of its length.

1,424,655. METALLIC ROD PACKING. STEWART S. KURTZ, Jr., Canton, Ohio. Filed Oct. 17, 1917. Serial No. 197,153. 16 Claims. (Cl. 286—1.)



1. In a metallic contracting rod packing, the combination of an outer eccentric spring contracting ring open in its thin side, two inner eccentric contractable rings each having an opening in its thin side, both mounted within said outer ring side by side with said openings out of communication and with the thick side of the outer ring at the thin open sides of the inner rings and the opening of the outer ring at the thick sides of the inner rings, and means for locking the three rings in their said positions, thus providing two independent rod bearing rings having their ends gradually tapering into the thick portions thereof, whereby there is independent flexibility of the inner rings and their inner surfaces are caused to conform to the periphery of the rod and their outer surfaces caused to conform to the outer ring, thus making an improved closure between the inner surfaces of the inner rings and the rod, and an improved closure of the expansion zone of the inner rings.

1,424,656. SWITCH-HEATER COVER. WILLIAM T. LAWLOR, Jersey City, N. J. Filed Jan. 21, 1922. Serial No. 530,927. 4 Claims. (Cl. 246—428.)



1. A pan including a removable cover having slots therein, to permit the burning of fuel in the pan, said cover being of general convex shape, and the upper edges of said slots overhanging the lower edges thereof.

1,424,657. DIVIDED RAIL. JOHN AMOS LETHERBY, Midland, Ontario, Canada. Filed Nov. 23, 1921. Serial No. 517,339. 1 Claim. (Cl. 238—142.)



A divided rail comprising two series of half rail sections, a ratchet shaped recess formed in the ball of one rail section, a correspondingly shaped projection extending from the opposing section so as to fit into the recess, and a web portion extending downward from each ball portion and having a straight inner face which portions slightly diverge towards the bottom or foot of the rail.

1,424,658. MOLDING. EDWARD S. LIDSTONE, Providence, R. I. Filed Dec. 21, 1920. Serial No. 432,265. 2 Claims. (Cl. 247—37.)

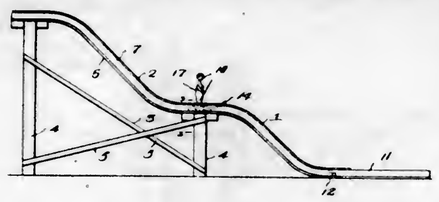


1. A molding, comprising a strip of bendable metal, the edges of said strip bent along longitudinal lines to form hollow spring beads adapted to receive wires, and presenting a pair of adjacent parallel grooved faces, said faces coacting with the intermediate portion of the strip to form a channel, and a sealing strip of metal having its edges located in the grooves.

1,424,659. FIGURE TOY. HARRY N. J. LINDER, Chicago, Ill. Filed June 3, 1921. Serial No. 474,804. 2 Claims. (Cl. 46—40.)

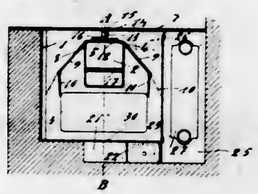
1. In a figure toy, the combination, of an inclined track, a figure for movement over said track including miniature skis, a body figure mounted on said skis, rollers carried

by said skis for engagement with said track, side rails on said track to prevent lateral movement of the figure



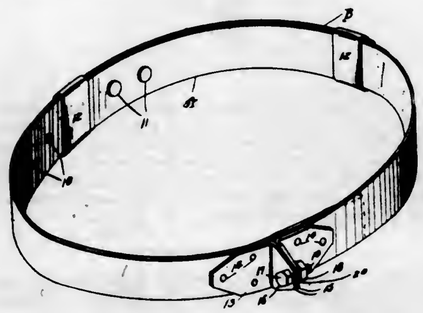
relative to the track, and guard plates mounted upon said side rails and overhanging the side portions of said track.

1,424,660. KITCHEN RANGE. AXEL EUGEN LUNDBERG, Sundsvall, Sweden. Filed Dec. 17, 1921. Serial No. 522,990. 7 Claims. (Cl. 126—1.)



1. Kitchen range, provided with a fireplace, located over the stove and which is so arranged that the flue-gases are carried off at both sides over the walls of the fireplace and downwards along said walls and the two side-walls of the stove and further under the bottom of the latter to an outlet for the flue-gases located at the latter place, characterized thereby that one or more openings (8) are arranged in the upper portion of each one of the side-walls, above which openings adjustable screens or stationary screens provided with dampers (10) extend from said walls, by means of which screens the room located on the sides of the fireplace can be screened off in such a way, that the flue-gases either are forced to flow over the walls of the fire-place up against the top of the range or through the openings (8) in the walls of the fire-place right down over and around the oven, in order to obtain a more advantageous concentration of the heat.

1,424,661. ADJUSTABLE HOOP. JAKE LYNN, Macon, Ga. Filed Apr. 12, 1922. Serial No. 551,884. 9 Claims. (Cl. 217—91.)



1 A hoop of the class described consisting of sections, one of said sections having an opening, the other section having means to enter said openings, means to prevent disengagement of said means and openings, the last mentioned means being held in position through the tension of the hoop

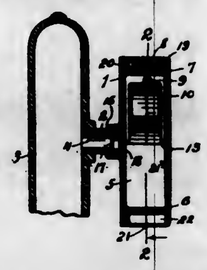
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1,424,662. WELL DRILL. IRA J. MCCULLOUGH, Tucson, Ariz. Filed Jan. 10, 1921. Serial No. 436,118. 2 Claims. (Cl. 253—74.)



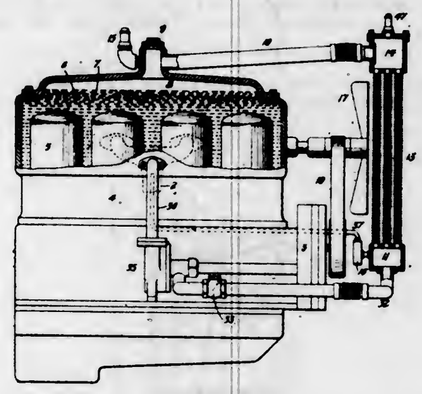
2. The combination with a rotary well casing, of a sleeve mounted in said casing, a pair of oppositely disposed bars provided with cutting jaws at their lower ends mounted in said sleeve, means for expanding said cutting jaws to extend beyond the outer periphery of said casing, and means for locking said jaws to said rotary casing.

1,424,663. STEAM-RADIATOR VENT. WILLIAM MCDONALD, Kansas City, Mo. Filed Apr. 15, 1921. Serial No. 461,714. 2 Claims. (Cl. 236—62.)



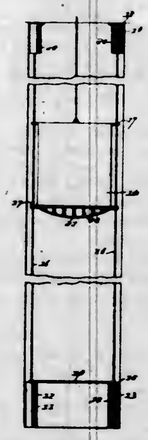
1. A steam radiator vent comprising a circular base member having a central tubular inlet stem adapted to be mounted in a radiator, the base member having an annular flange concentric with said stem provided in its upper side with an outlet and provided on its inner side with two oppositely disposed horizontal slots, an arcuate thermostatic bar having its ends mounted respectively in said slots, a float vertically slidable on and supported by said bar, a valve carried by said float adapted to close said outlet when said bar lifts said float to a pre-determined position, a cup-shaped cap mounted on the periphery of said base member and spaced apart from the said annular flange and forming therewith an annular chamber and provided in its lower side with an outlet, and a gasket disposed between and bearing against said cap and said flange, substantially as set forth.

1,424,664. COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. HARRY C. MALLORY, Bellport, N. Y. Filed Apr. 20, 1917. Serial No. 163,332. 23 Claims. (Cl. 123—174.)



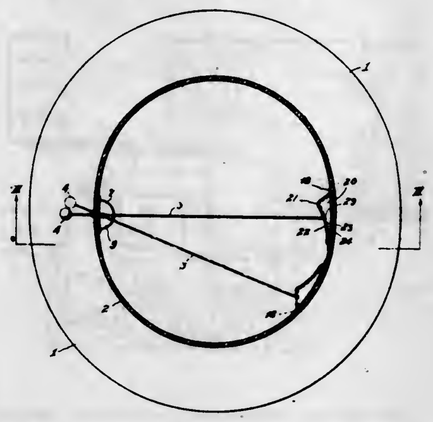
13. In an internal combustion engine cooling system, the combination with a liquid containing cylinder cooling jacket having a free vapor space above the liquid therein, of a condenser associated with said jacket in a closed circulating system comprising a conduit for passing vapor from said vapor space to the condenser and a separate conduit for returning liquid of condensation from the condenser to the jacket, and means for admitting air to and withdrawing it from said circulating system as required to maintain an approximately constant pressure less than atmospheric in said vapor space.

1,424,665. SAFETY DEVICE FOR ELEVATORS. JOHN MOSCHOS, Demopolis, Ala. Filed July 29, 1921. Serial No. 488,368. 3 Claims. (Cl. 187—67.)



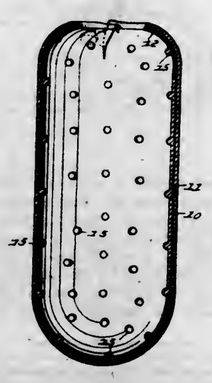
2. A cushioning device for elevators having a spring supported platform arranged in the path of downward movement of the cage, buttons being connected with the upper ends of the platform supporting springs and supplemental reinforcing springs being arranged at the upper end of the elevator shaft and provided with terminal buttons connected with those of the platform supporting springs by cables extending parallel with the path of movement of the elevator cage.

1,424,666. HATPIN. HERMAN MUEHLE, Cleveland, Ohio. Filed July 24, 1920. Serial No. 398,688. 5 Claims. (Cl. 132—69.)



1. A device of the character described comprising a hat pin provided at one end with an enlargement, a member fashioned with an opening adapted to receive said enlargement and a spring wire including parallel sections cooperating with said opening to secure said enlargement to said member, said sections crossing and closer together than said opening and adapted to be spread apart when said pin enlargement is forced into place.

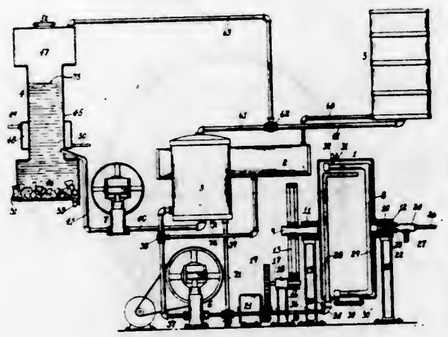
1,424,667. BOTTLE PROTECTOR. CHARLES S. MURCH, Highland Park, Mich. Filed Aug. 19, 1919. Serial No. 318,434. 1 Claim. (Cl. 215—12.)



A bottle enclosing case made of elastic material and having an incorporated fabric reinforcement, the casing being formed at the upper end with a mouth and associated fastening means therefor to permit the mouth being disposed snugly around the neck of a bottle, the casing on the interior wall being provided with spaced knobs or pro-

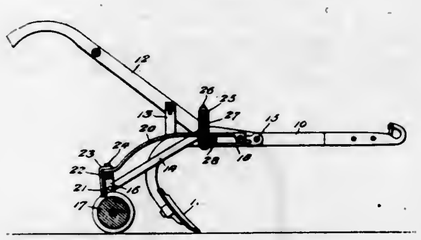
jections having rounded terminals for abutting engagement with the bottle held in the casing, whereby the bottle is held spaced from the interior wall of the casing.

1,424,668. PROCESS FOR RECLAIMING RUBBER. JOHN O. NAVONE, Oakland, Calif. Filed Jan. 24, 1920. Serial No. 353,847. 4 Claims. (Cl. 18—52.)



1. The process as disclosed which consists in dissolving the rubber from rubber products in a hydro-carbon, and then evaporating the hydro-carbon and precipitating the rubber in heated water.

1,424,669. CULTIVATOR ATTACHMENT. JESSEY P. NEELY, Adams, Tenn. Filed Oct. 31, 1921. Serial No. 511,865. 3 Claims. (Cl. 97—1.)



1. The combination with a cultivator frame, of an auxiliary frame pivoted upon the first mentioned frame, a yoke carried by the auxiliary frame, a roller journaled in said yoke, a lever pivoted at one end and its opposite end secured to said yoke, a yieldable means exerting a downward pressure on said lever for the purpose specified, and means for limiting the movement of the auxiliary frame and said lever under the influence of the yieldable means.

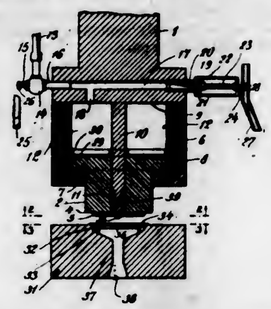
1,424,670. COTTON-PICKER'S SACK. LU E. NETTLES, Elbridge, Tenn. Filed May 3, 1921. Serial No. 466,376. 1 Claim. (Cl. 150—2.)

A cotton picker's sack comprising a body closed at its bottom edge and provided in its lower portion along its longitudinal edges and said closed bottom edge with eyelets, strips permanently attached along their upper edges to the side walls of the body and provided adjacent to their lower edges with rows of eyelets, an auxiliary bottom or shoe provided adjacent to its edges with eyelets, and adapted for use at opposite side of the body alternately, and means lacing the auxiliary bottom or



shoe to the body along the longitudinal and bottom edges thereof and to one of the said strips on the body.

1,424,671. METAL-WORKING MACHINE. JOHN EDWARD OGDEN, Cornwall, and JOSEPH KENNEDY, Richmond Hill, N. Y.; said Kennedy assignor to said Ogden. Filed May 5, 1919. Serial No. 294,785. 25 Claims. (Cl. 113—45.)



1. In a metal working machine, in combination, a movable punch head, a punch movable therewith and therein, a stationary die and an air cushion arranged to transmit the movement of the head to the punch to move the punch through a blank interposed between the punch and the die and automatically operable means for releasing air from said cushion.

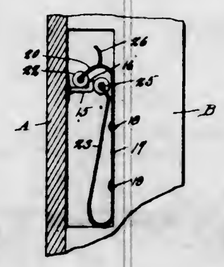
1,424,672. PROPELLER. GEORGE A. OGRISSEK, Jersey City, N. J. Filed July 23, 1919. Serial No. 312,656. 4 claims. (Cl. 170—170.)



1. A propeller comprising a hub, an inner series of radiating flat blades substantially the same width through-

out extending from said hub, a ring secured to the outer ends of said blades, and an outer series of flat blades extending radially from said ring, said last mentioned blades having straight forward edges and convexly curved rear edges, said curved edges approaching said straight edges toward the outer ends thereof.

1,424,673. LATCH DEVICE. OLIVER H. ORENDORFF, Bloomington, Ill. Filed Nov. 9, 1920. Serial No. 422,904. 7 Claims. (Cl. 292—87.)



1. A device of the character described comprising a catch member having an angular end, and a holding member including an attaching portion, an outwardly extending arm portion, a tongue portion angularly disposed with respect to said attaching portion and said arm portion, said arm and tongue being resilient, and rollers journaled on the free ends of the arm and tongue in overlapping relation, one roller being initially engageable by said catch member and the other roller being adapted for subsequent engagement behind the angular end of the catch member.

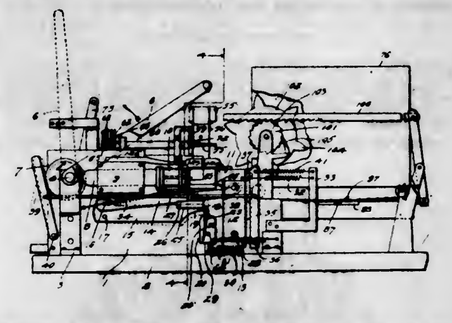
1,424,674. ARROW. ROBERT P. ORR, Albany, N. Y. Filed June 21, 1921. Serial No. 479,308. 2 Claims. (Cl. 102—26.)



2. An arrow comprising a body provided with a head, an elongated rubber bag open at one end and completely enclosing said head so that the closed end will project beyond the front of the head, a ligament for clamping the bag to said body, and a ferrule on the body and overlapping the open end of the bag.

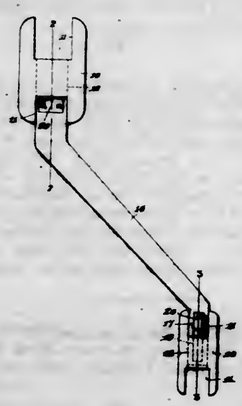
1,424,675. AUTOMATIC-FEEDING SELF-ADJUSTING PECAN CRACKER. HENRY B. PAOLUCCI, San Antonio, Tex. Filed May 19, 1921. Serial No. 470,764. 19 Claims. (Cl. 146—3.)

1. A nut cracking machine comprising a base, nut supporting means on said base, a nut cracking member slidably mounted on said base and adapted to move across the nut supporting means, a second nut cracking member pivoted to said base and located in the path of movement of the first named nut cracking member and adapted to recede under the influence of said first nut cracking member, a catch carried by said base, a locking plate carried by and movable with the first nut cracking member, and means actuated by the receding movement of the second nut cracking member to move the catch into engagement with the locking plate to cause the second named nut cracking member to offer resistance



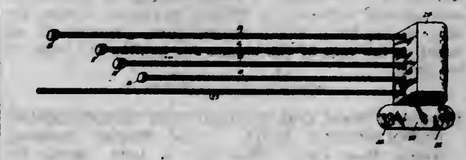
against the first nut cracking member to crack a nut on the nut supporting means.

1,424,676. WRENCH. CLARENCE B. PARSONS, Sweet Springs, Mo. Filed Feb. 15, 1922. Serial No. 536,779. 2 Claims. (Cl. 81—119.)



1. A wrench including a head having a plurality of nut engaging jaws and a handle receiving socket between the contiguous ends of the jaws, said socket having spaced recesses in its interior, a handle adapted to be seated in said socket from either end, and a yieldable catch carried by said handle and engageable with said recesses to yieldably lock the handle to the head.

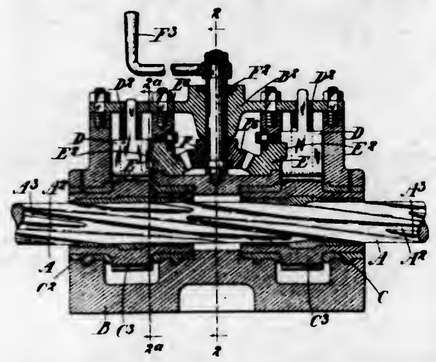
1,424,677. ROD GONG FOR STRIKING CLOCKS. WILSON E. PORTER, New Haven, Conn., assignor to New Haven Clock Co., New Haven, Conn., a Corporation. Filed Apr. 13, 1922. Serial No. 552,310. 2 Claims. (Cl. 116—169.)



2. A rod-gong for striking-clocks, having its outer end counterbored and threaded, in combination with a plu-

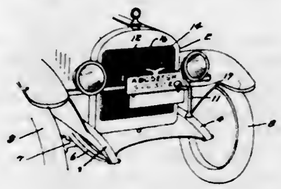
rality of nut-like, interchangeable tuning-buttons differentiated in weight, each button having a threaded stem adapted to be entered into the said bore.

1,424,678. ROLLING MILL. JACQUES REIMANN, Birmingham, England, assignor to Tubes Limited, Birmingham, England. Filed June 2, 1920. Serial No. 386,087. 4 Claims. (Cl. 80—14.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a rolling mill, a plurality of feed-spirals each of a different pitch and operatively connected to the work-carrier and traveling with it to cause its partial rotation, each feed spiral adapted to cause a twist of substantially 90°, the longest pitch effecting this during the full return of the carrier, and the shorter pitches effecting it in lesser travels of the carrier, each feed spiral engaged by a co-operating nut immovable endwise, and means operable selectively for holding any one nut against rotation during the retraction of the work-carrier and work, substantially as set forth.

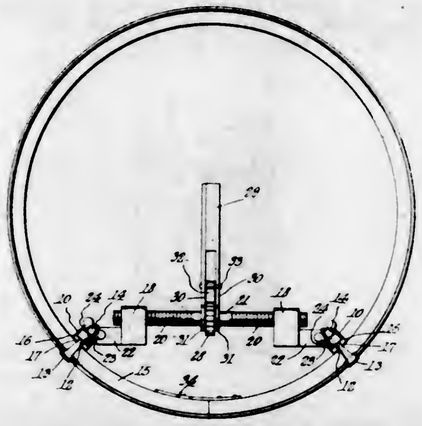
1,424,679. AUTOMOBILE ATTACHMENT. PERRY J. RIDENOUR, Silver City, N. Mex. Filed July 23, 1921. Serial No. 487,069. 2 Claims. (Cl. 40—125.)



1. An anti-theft device for an automobile comprising means for displaying an identifying word, an identifying number and a law required light in inseparable relation to each other, a stud on said means, a flanged frame member for the automobile, a block adapted to receive the stud secured between the flanges, means for locking the stud to the block and a flanged cover permanently secured to the toes of the flanges for holding the block in its place.

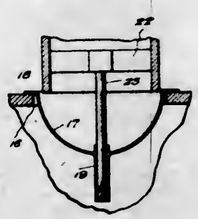
1,424,680. TOOL FOR CONTRACTING OR EXPANDING DEMOUNTABLE RIMS. JOHN WESLEY ROBERTS, Grants Pass, Oreg. Filed Nov. 3, 1921. Serial No. 512,593. 1 Claim. (Cl. 157—1.)

In a device of the character described, a pair of transverse bars provided upon their outer faces with serrated blocks integral therewith, said blocks being spaced from the ends of said bars, said bars having pairs of spaced knuckles upon the inner sides thereof adjacent to and opposite said blocks, said bars having elongated slots in their ends, clamping elements adjustably mounted in the slots, blocks having screw threaded openings and provided with arms adapted for insertion between said



knuckles, said arms being adapted to engage at their ends with said bars, said arms being cut away near their ends at corresponding sides whereby the bars may swing inwardly in one direction with relation to said rims, pivoted elements connecting the buckles and arms of a turn-buckle rod operating within the screw threaded openings to turn the turn-buckle rod.

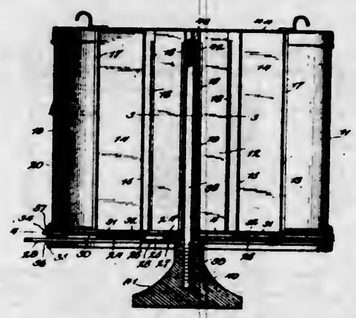
1,424,681. PORTABLE PHONOGRAPH. JACOB READIGE ROSE, Philadelphia, Pa. Filed Aug. 5, 1921. Serial No. 490,182. 1 Claim. (Cl. 224—2.)



In a talking machine including a cabinet, and a sound board therein, the sound board being provided with a hole, a downwardly extending concavo-convex shell seating within said hole and provided at its center with a bearing socket, and a tone arm having one end carrying a reproducer and provided at its other end with a spindle revolubly seating within said socket.

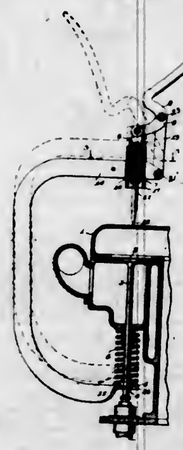
1,424,682. COMMODITY CONTAINER. CHARLES F. SCHLOSSER, Brooklyn, N. Y. Filed May 31, 1921. Serial No. 473,886. 2 Claims. (Cl. 211—7.)

1. A commodity holder including a rotatable body-member embodying an inner series of receptacles and an outer series of receptacles, an upper series of pivoted members and a lower series of pivoted members, a discharge opening at the bottom of each of said receptacles, the upper series of pivoted members being arranged to leave the openings of the onter series of receptacles obstructed or unobstructed upon movement of the said members, the lower series of pivoted members being ar-



ranged to leave the openings of the inner series of receptacles obstructed or unobstructed upon movement of the said members.

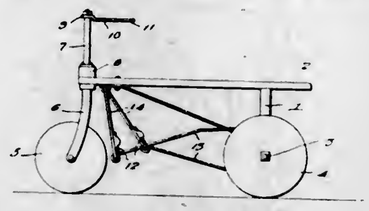
1,424,683. VALVE LIFTER. ROBIN ICH SHIBIYA, Omaha, Nebr. Filed Feb. 9, 1921. Serial No. 443,634. 1 Claim. (Cl. 29—86.3.)



A valve lifter for automobile engines, which comprises a threaded pin to be placed on top of the cylinder block, a plug having a threaded bore with which the pin adjustably engages, a slidable sleeve surrounding the plug, a pivoted lever connected to said plug, an arm connected to the sleeve and extending around the cylinder head, the lower end of the arm adapted to engage the valve spring, said arm having an aperture, a bolt passing through said aperture, a pair of sleeves surrounding the bolt on opposite sides of the arm, a pair of links disposed on the bolt adjacent the ends of the sleeves, the other ends of the links being apertured, a second bolt passing through the apertures in said links and through an aperture in the pivoted arm, and sleeves on the second bolt disposed between the links and the arm to space the links with respect to the arm, this combination of parts resulting in a balanced movement of the sleeve along the plug.

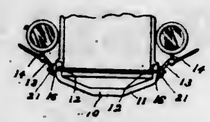
1,424,684. TRICYCLE. PETER P. SIMMON, Sioux City, Iowa. Filed June 11, 1920. Serial No. 388,827. 1 Claim. (Cl. 208—33.)

A device of the class described comprising a supporting frame, a seat board connected thereto, a double crank shaft journalled in said frame and rear wheels carried thereby, a steering post rotatably arranged in the front part of said board and in a strengthening block which is secured to the front end of the board, said post having a forked end and a front wheel carried thereby, the steering post also passing through the front part of the supporting frame, a steering bar carried by the upper end of said post and having a short part and a long part, stirrups for propelling the device and links adapted to connect said stirrups with the cranks, angle shaped arms



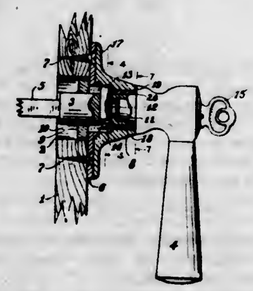
having one part rotatably secured to the under face of said board and the other part extending downwardly and rearwardly to the stirrup for rockingly supporting said stirrups, the stirrups being formed from the same strip of material which forms the arms, the stirrups being substantially in the form of a figure 8 with one loop regaging an eye formed on the link and its other loop receiving the foot, a lip being formed on the foot engaging part to act as a guide therefor.

1,424,685. TRUSS FOR AUTOMOBILES. CHARLES SMALLEY, Wagner, S. Dak. Filed Oct. 18, 1921. Serial No. 508,527. 3 Claims. (Cl. 280—106.)



1. The combination with an automobile frame and a pair of fender irons extending therefrom, of a pair of bearing plates adapted to engage said frame, a pair of U-shaped members adapted to surround said fender irons, means for retaining said U-shaped members in position, a rod extending through said plates and means carried by said rod for retaining said plates in position.

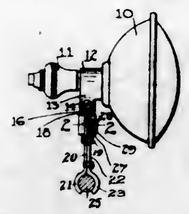
1,424,686. HANDLE LOCK FOR AUTOMOBILES. WILLIAM A. SOMERS, Mount Carmel, Conn., assignor to The Mt. Carmel Manufacturing Company, Mount Carmel, Conn., a Corporation of Connecticut. Filed May 23, 1921. Serial No. 471,572. 11 Claims. (Cl. 70—91.)



1. A locking device comprising a latch-spindle, an escutcheon plate, a guard for covering said escutcheon

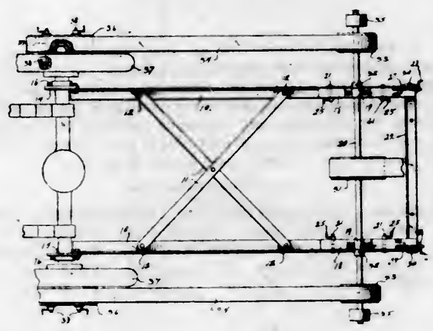
plate, said guard being movable relative to said escutcheon plate independently of said spindle, and means for locking said spindle to said escutcheon plate and for locking said guard in position thereover.

1,424,687. SPOTLIGHT SUPPORT. JASON C. STEARNS, Worcester, Mass. Filed May 31, 1921. Serial No. 473,763. 5 Claims. (Cl. 240—7.)



1. In a spot light bracket, the combination with two sheet metal plates each having a pair of curved claws for clamping the bracket on a rod, of means arranged with their centers in a plane parallel to the axis of the rod for holding the plates and the claws together, one of said plates terminating short of the other at the other end, and a third plate removably attached to the longer plate beyond the shorter one, the third plate and the longer one having semi-cylindrical passages constituting means for pivotally supporting a spotlight on an axis transverse to the axis of said rod.

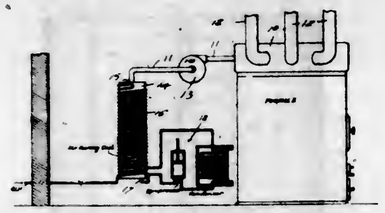
1,424,688. POWER TAKE-OFF FOR AUTOMOBILES. CHARLES H. STEHL, Tinley Park, Ill. Filed Jan. 28, 1922. Serial No. 532,474. 5 Claims. (Cl. 74—106.)



1. In a power take-off device for self propelled vehicles, spaced side frames, a drive receiving and transmitting shaft carried by the frames, and means for securing the frames to the vehicle embodying a U-shaped member attached to the end of each of said side frames and shiftable to direct the arms thereof upwardly, downwardly or in alignment with the side frames.

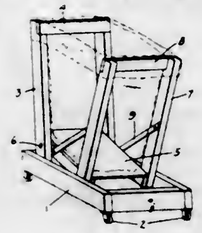
1,424,689. AIR COOLER. CHARLES W. STONE, Tuscaloosa, Ala. Filed Nov. 7, 1919. Serial No. 336,417. 4 Claims. (Cl. 257—229.)

1. An air cooler comprising a casing, an air pipe having its exhaust end located within the casing and its intake end located exteriorly of said casing, said pipe being bent to form a pair of coiled portions, and one of said portions surrounding the exterior of the casing and the other coiled



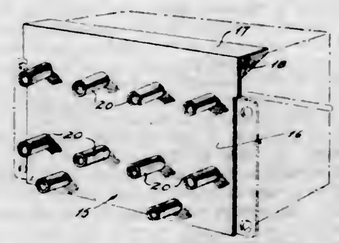
portion located within the casing, a cooling medium for the casing, and means for dispensing cooled air from said casing.

1,424,690. LAUNDRY-BAG HOLDER. PAUL R. STEER, Indianapolis, Ind. Filed Dec. 13, 1921. Serial No. 522,067. 4 Claims. (Cl. 83—26.)



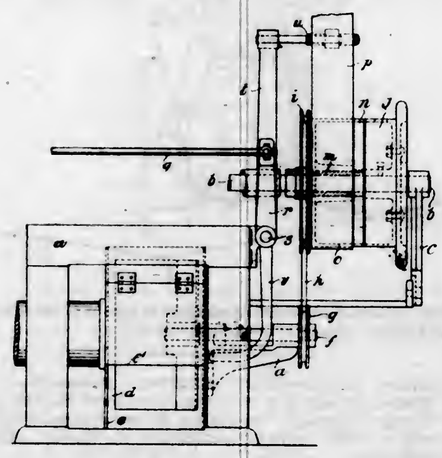
1. In a bag holder, a pair of fixed standards, a platform pivotally connected with said standards and adapted to swing downwardly by gravity, and standards connected with said platform and co-acting with the fixed standards for engaging and maintaining the mouth of a bag in open position.

1,424,691. GASKET. CHARLES TASSO and HUBERT B. DALY, New York, N. Y. Filed June 6, 1919. Serial No. 302,364. 4 Claims. (Cl. 180—90.)



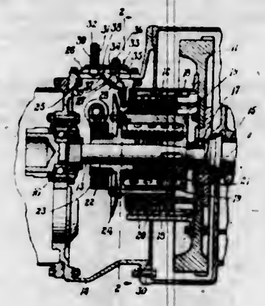
1. The combination with a motor vehicle having an apertured dash board, a coil box and insulators extending from the coil box through the apertures in the dash board, of a gasket comprising a relatively soft yielding body of water proof material adapted to be interposed between the dash board and coil box, said body being provided with apertures to receive the insulators and nipples on the front face of the gasket adapted to fit snugly about the insulators, and a flange at the upper edge of the gasket to partially overlie the top of the coil box.

1,424,692. COMBING MACHINE. ROBERT TAYLOR, Oldham, England. Filed Nov. 17, 1920. Serial No. 424,634. 3 Claims. (Cl. 19—109.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



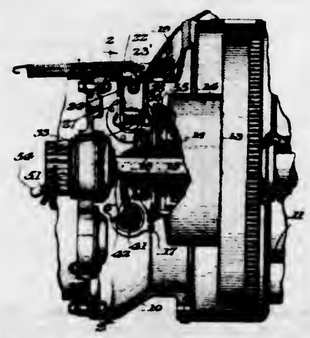
1. In a combing machine, the combination of a shaft, fast and loose pulley mounted thereon, a sleeve loosely mounted on the shaft, narrow and grooved pulleys keyed to said sleeve, a belt for driving said pulleys, a fan shaft adapted to be driven by the grooved pulley, and means for shifting said belt whereby the fan may be operated while the machine is going or stopped or the fan may be stopped without stopping the belt.

1,424,693. MOTOR VEHICLE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 12, 1916. Serial No. 125,222. 13 Claims. (Cl. 192—13.)



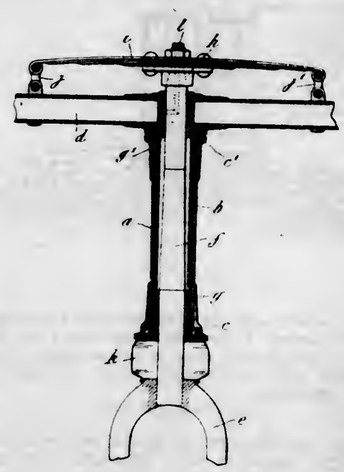
1. The combination with a clutch and a casing covering said clutch, of a disk mounted on the driven member of the clutch and movable as the clutch is disengaged, and a brake pivotally mounted on the inside of the casing and cooperating with said disk.

1,424,694. MOTOR VEHICLE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 7, 1917. Serial No. 190,242. 6 Claims. (Cl. 192—13.)



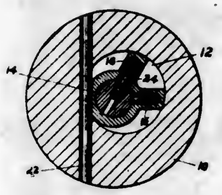
1. In combination with a clutch casing having a removable cover, a clutch within the casing, means for retarding the rotation of the driven clutch member when disengaged including a support removably fastened to said cover, and a brake member mounted on said support for yielding sliding movement.

1,424,695. ELASTIC FORK FOR MOTOR CYCLES AND OTHER VEHICLES HAVING A SINGLE STEERING WHEEL. MARCEL ACHILLE VIOLET, Levallois-Perret, France. Filed Mar. 29, 1921. Serial No. 456,660. 4 Claims. (Cl. 208—103.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



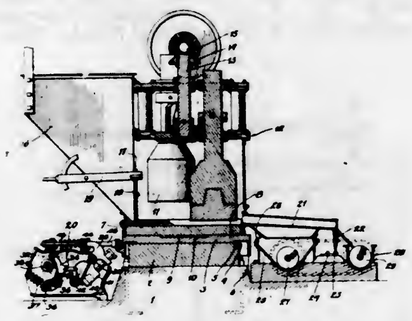
1. In an arrangement of elastic fork for motorcycles and other vehicles having a single steering wheel, a forward tube, a steering tube therein, a handle bar rigidly secured to said steering tube, a stem within the steering tube secured to the fork head and capable of moving lengthwise, sleeves to guide the stem; a leaf spring secured at its middle to said stem of the fork head and parallel to the handle bar, and links connecting the ends of the spring to the arms of the latter.

1,424,696. LOCK. HENRY G. VOIGHT, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Original application filed Apr. 9, 1919, Serial No. 288,668. Divided and this application filed June 16, 1919. Serial No. 304,449. 16 Claims. (Cl. 70—47.)



1. A cylinder lock, comprising a lock case, a key barrel rotatable therein, pin tumblers slidably mounted in said case and movable into locking engagement with said key barrel, and a second set of pin tumblers slidably mounted in said case and movable into frictional engagement with the pin tumbler sockets of the key barrel, said last mentioned pin tumblers provided with means for preventing the same from moving into locking engagement with said key barrel.

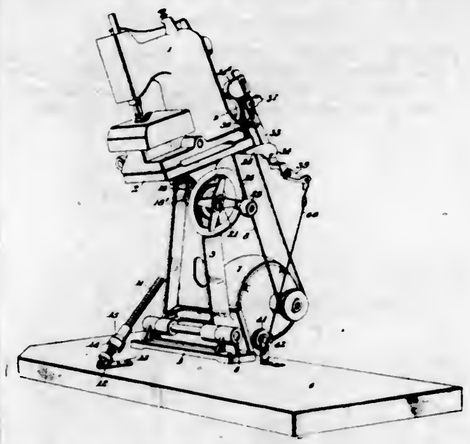
1,424,697. APPARATUS FOR REDUCING MATERIALS. RALPH H. WARREN, Montclair, N. J. Filed Aug. 1, 1921. Serial No. 488,855. 3 Claims. (Cl. 83—57.)



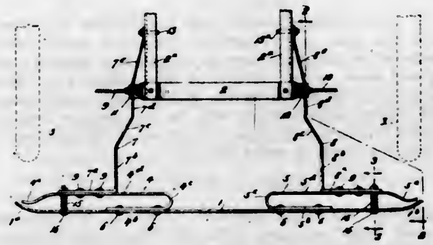
1. In a stamp mill, the combination of a vertically reciprocating stamp, a horizontal table with a die thereon, means for moving said table in one rectilinear direction and spring means for rapidly moving the table in the opposite direction.

1,424,698. ADJUSTABLE CARRIER FOR SEWING MACHINES. IRVING F. WEBB, Elizabeth, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Mar. 10, 1919. Serial No. 281,812. 12 Claims. (Cl. 112—11.)

8. In a device of the character described, the combination with a sewing machine, of a hinge-bracket to which the latter is secured, means including a threaded rod provided with a nut, together with means carried by said bracket for actuating said nut through frictional engagement with said latter means, said rod, nut and said means carried by said bracket cooperating to effect adjustments of and secure said machine against accidental adjustment when in its position of seam-formation but separable to permit of its adjustment to an idle position out of its field of seam-formation independent of said rod, nut and said means carried by said bracket-arm.

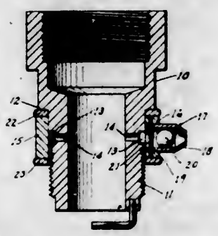


1,424,699. AUTOMOBILE BUMPER. FREDERICK A. WEANIG, Brooklyn, N. Y., assignor to New York Wire & Spring Company, a Corporation of New Jersey. Filed Oct. 5, 1921. Serial No. 505,601. 14 Claims. (Cl. 293—55.)



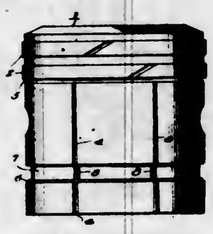
4. An automobile bumper comprising a plurality of members arranged to provide two free ends, one behind the other, at each of the opposite ends of the bumper and resilient connecting means arranged intermediate the ends of the bumper and connecting the aforesaid two free ends.

1,424,700. SPARK PLUG. LESLIE SPENCER WILLIAMS and BEVIE KERR, Wichita Falls, Tex. Filed Oct. 22, 1921. Serial No. 509,659. 1 Claim. (Cl. 123—169.)



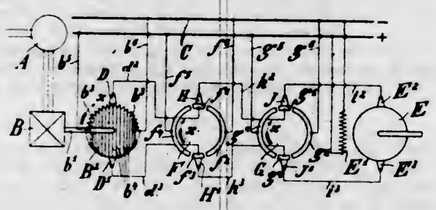
An attachment for spark plugs comprising a ring having a laterally extending opening, a nipple disposed within said opening, the end of said nipple being substantially conical, the opposite end of the nipple being disposed flush with the inner face of the ring, a check valve ball disposed within said nipple, and a pin extending transversely of the ring and through the nipple for securing the nipple to the ring and preventing removal of the check valve ball from the nipple.

1,424,701. PISTON. NOEL E. WILLIAMS, Canyon, Tex. Filed July 22, 1921. Serial No. 486,830. 1 Claim. (Cl. 74—108.)



A piston having the usual grooves for the expansible piston rings, the lower corners provided by the lowermost and next to the lowermost grooves being formed with continuous depressions, the outer face of the piston having longitudinal grooves entering from the lower end of the piston and terminating with the upper annular depression, said last mentioned grooves being gradually widened and increasing in depth from the upper to the lower ends thereof, and the groove receiving the lowermost piston ring having its opposed and inner walls provided with continuous grooves which communicate with the longitudinal grooves.

1,424,702. ELECTRICAL CONTROL APPARATUS. MAX WISSINGER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 8, 1920. Serial No. 408,958. 5 Claims. (Cl. 172—239.)



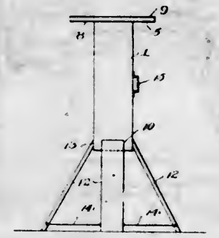
4. In combination with a direct current motor, a source of supply, a resistance element, a control switching means for variably connecting a motor to the line through said resistance element, said switching means comprising a plurality of contacts movable with respect to said resistance element, and a second switching means operatively connected with said first switching means for automatically connecting said motor to the line, direct, on a given relative movement of said contacts, with respect to said resistance element.

1,424,703. SCREW-DRIVER ATTACHMENT. JOSEPH V. WORK, Palisade, Nebr. Filed Nov. 12, 1921. Serial No. 514,782. 4 Claims. (Cl. 145—52.)

1. The combination with a screw driver having an adjustable collar thereon, a screw holder attachment therefor, comprising pivotally supported spring influenced screw engaging jaws, means on the shank of the screw driver contacting the collar and engaging between the jaws to swing the jaws away from each other when pressure, to a determined extent, is exerted thereagainst, and means removably associating the last mentioned means with the collar.



1,424,704. FOLDING CHAIR. NICKALOUS C. ZIRWES, Sheboygan, Wis. Filed Feb. 18, 1921. Serial No. 445,987. 2 Claims. (Cl. 155—135.)

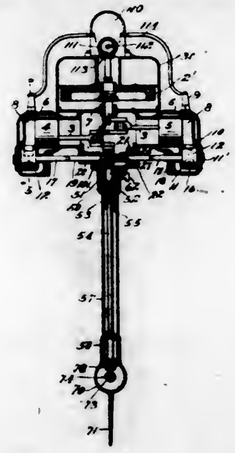


1. A folding chair comprising a casing having slots formed in the bottom thereof, the upper wall thereof standing at an angle to the casing, and a slidably mounted block within the casing and legs swingingly connected to the block and adapted to pass through said slot and bind against said inclined wall each leg being further provided with inclined shoulders binding against the exterior surface of the case when in use.

1,424,705. LIQUID-FUEL MOTOR. ROLLIN ABELL, Milton, Mass. Filed Apr. 25, 1916. Serial No. 93,548. 4 Claims. (Cl. 123—56.)

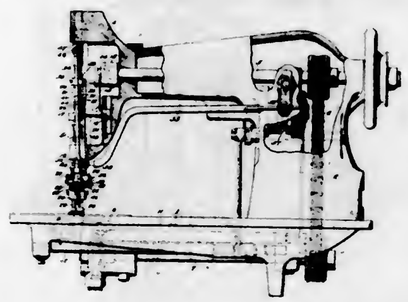
4. A liquid fuel motor having a vertically disposed crank-shaft, a support therefor, a fuel tank superimposed on the motor, a ratcheting device arranged on the shaft

below the said tank, and a manually operable starting lever projecting from below the tank between said tank



and the crank-shaft support and disconnectibly engageable with the said device, whereby the motor may be started.

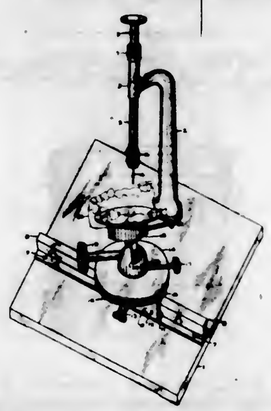
1,424,706. SEWING MACHINE. CHARLES M. ABERCROMBIE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Dec. 26, 1919. Serial No. 347,311. 8 Claims. (Cl. 112—81.)



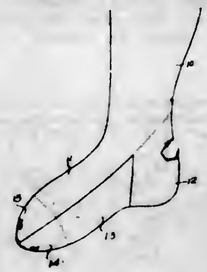
1. In a sewing machine, in combination, an actuating shaft, a reciprocating needle-bar, a needle carried thereby, operative connections intermediate said actuating shaft and said needle-bar including a flat spring support for the latter for imparting vertical reciprocatory movements to the needle, a vibratory guide in which said needle-bar is journaled for endwise reciprocation, and means for positively vibrating said needle-bar laterally upon said flat spring support.

1,424,707. DENTAL INSTRUMENT. HENRY A. ADLER, New York, N. Y., assignor to Adler Engineering Company, Corona, Long Island, N. Y., a Copartnership. Filed Nov. 15, 1921. Serial No. 515,266. 6 Claims. (Cl. 32—10.)

1. In a dental instrument of the class described, the combination of a base member, a standard mounted fixedly thereon, a mandrel carrying arrangement simultaneously rotatable and vertically adjustable supported by said standard, and an adjustable carriage arrangement for the dental model movably mounted on said base member, permitting the dental model to be shifted and revolved in the horizontal plane, also angled through a range of 180 degrees and revolved in any angular position, to bring the desired location on the dental model in the line of operation of the mandrel or other dental appliance, substantially as described.



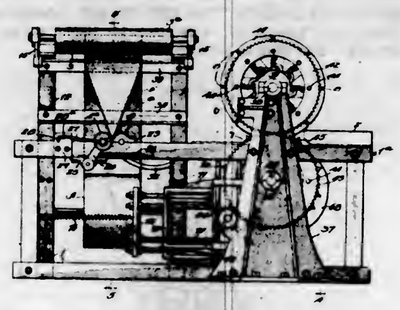
1,424,708. REFOOTING STOCKINGS. HENRY A. BRENDSEN, Bangor, Pa. Filed Dec. 23, 1920. Serial No. 432,734. 1 Claim. (Cl. 2—23.)



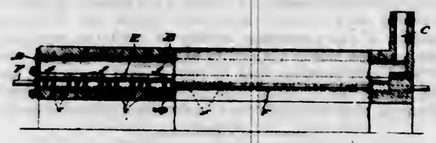
As an article of manufacture, a refooted stocking comprising a woven single ply fabric leg merging into a single ply foot top section, a re-inforced woven fabric toe top section seamed to the front end of said foot top section, a re-inforced woven heel section seamed to the edges of said leg, and a single ply woven sole formed with a woven re-inforced toe section, said sole with its re-inforced toe section being seamed to the edges of said toe top section and to the edges of said foot top section, one end of said sole being also seamed to said re-inforced heel section.

1,424,709. PAPER-TOWEL AND LIKE MACHINE. EDMUND BRUDER, Chicago, Ill., assignor of one-half to Harold I. Koppelman, Wilmette, Ill. Filed Jan. 19, 1918. Serial No. 212,592. 32 Claims. (Cl. 270—39.)

1. A machine of the character described having, in combination, means for imparting a longitudinal fold to a strip, means for transversely folding the strip into zig zag form, means for severing the strip into separate sheets, said folding means discharging the separate sheets in zig zag form and in upright position, and means operating upon the separate sheets after they are discharged from the folding means to interfold the adjacent ends of contiguous sheets.

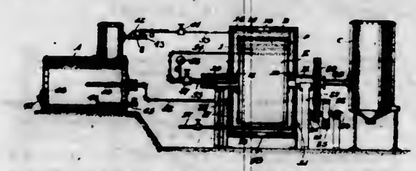


1,424,710. ALLOY FOR FORGING STEEL AND METHOD OF PRODUCING SAME FROM NICKEL ORE. LINUS PORTER BURROWS, Erie, Pa.; Lenah B. Archer executrix of said L. P. Burrows, deceased. Filed Jan. 20, 1920. Serial No. 352,775. Renewed Sept. 22, 1921. Serial No. 502,548. 3 Claims. (Cl. 75—17.)



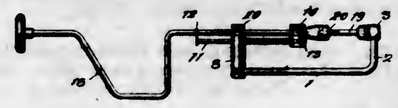
1. The herein described process consisting in subjecting crushed nickel ore to the action of a gaseous product in a closed chamber until the oxygen is removed from the ore, subjecting said treated and refined nickel ore to a smelting process; breaking up the metallic product and disintegrating the same by exposing it to the atmosphere, taking the disintegrated material and subjecting it to an evaporating action at a low red heat without material oxidization resulting in the reduction of the weight of the air disintegrated product approximately twenty per cent.

1,424,711. PROCESS OF TREATING NICKEL ORES AND PRODUCT RESULTING THEREFROM. LINUS PORTER BURROWS, Erie, Pa.; Lenah B. Archer executrix of said L. P. Burrows, deceased. Continuation of application Serial No. 335,107, filed Nov. 1, 1919, which in turn is continuation of Serial No. 44,310, filed Aug. 7, 1915. This application filed May 4, 1920. Serial No. 378,895. Renewed Sept. 22, 1921. Serial No. 502,549. 4 Claims. (Cl. 75—17.)



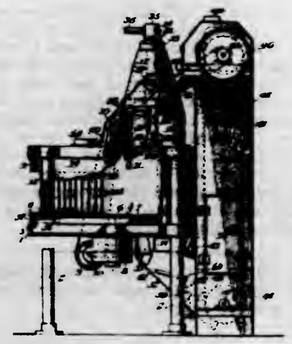
1. The process herein described consisting in first suddenly expanding steam, then separating the steam without condensation from any water held in suspension, then heating the resultant gaseous product and then subjecting crushed nickel ore in a closed chamber to the action of the gaseous product for approximately five hours at red heat.

1,424,712. ATTACHMENT FOR WRENCHES. AUGUST EDWIN CARLBERG, Worcester, Mass., assignor to Walden-Worcester, Inc., Worcester Mass., a Corporation of Massachusetts. Filed June 16, 1920. Serial No. 389,271. 10 Claims. (Cl. 81—55.)



1. An attachment for socket wrenches including a socket member and means adapted to receive the shank of a wrench and to hold the wrench with the socket thereof in register with the socket member, said means comprising a detachable member for permitting the removal or insertion of said shank within said means.

1,424,713. SAND-BLAST MACHINE. RICHARD G. COBURN, Chicago, Ill., assignor, by mesne assignments, to American Foundry Equipment Company, New York, N. Y., a Corporation of Ohio. Filed June 21, 1916. Serial No. 105,007. 19 Claims. (Cl. 51—15.)



2. A sand blast machine having a rotary sand receiving and distributing member provided with a substantially horizontal sand passage in which the sand may be fed by centrifugal action, a sand blast nozzle carried by said rotary member near the outer end of said passage and arranged to receive sand therefrom, and an air jet nozzle opening into said sand passage and directing sand through said sand blast nozzle.

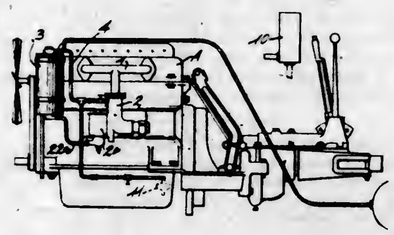
1,424,714. FUSE PLUG. THOMAS F. COTÉ, Prince Albert, Saskatchewan, Canada. Filed Sept. 21, 1920. Serial No. 411,860. 3 Claims. (Cl. 200—128.)



1. A fuse plug comprising a body having one end open and its other end closed, a shell closing the open end of

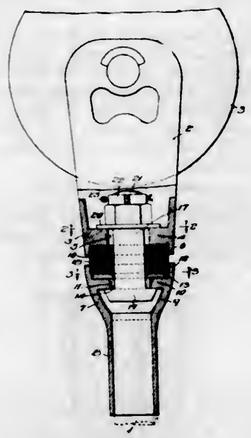
said body, a contact secured in the closed end of said body and having a reduced inner end, an insulating sleeve in said body and spaced from the walls thereof and having each end open, a fuse element having cut away portions at each end and having its ends bent at right angles in opposite directions to engage the ends of the sleeve and said fuse elements passing diagonally through the sleeve, closure caps closing the ends of the sleeve and securing the ends of the fuse element to the sleeve and one of said closure caps receiving the reduced end of the contact and the other closure cap engaging the shell, said sleeve having vent openings at a point intermediate its ends.

1,424,715. FUEL-FEEDING AND SUCTION-INDUCING DEVICE. JOSEPH C. COULOMBE, Lowell, Mass. Filed Mar. 31, 1917. Serial No. 159,045. 14 Claims. (Cl. 158—36.)



1. The combination with an internal combustion engine having a carbureter and a lubricating system; of means for feeding fuel to said engine comprising a suction chamber and a distributing chamber, a valve and valve mechanism for controlling the flow of fuel from the suction chamber to the distributing chamber, a fuel tank, a connection from the fuel tank to the suction chamber, a connection from the distributing chamber to the carbureter, a lubricating system, a pump driving oil through said system, an injector arranged in the oil circulating system, and a connection from said injector to the suction chamber, whereby the circulation of oil creates a sub-atmospheric condition in said chamber.

1,424,716. TROLLEY HARP. CHARLES J. DORRANCE, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 431,936. 11 Claims. (Cl. 191—60.5.)



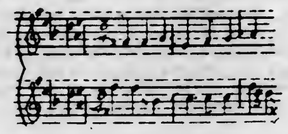
9. In a device of the kind described and in combination, a trolley harp having an integral web at its lower end, a trolley pole attaching part, and means directly securing said pole part and harp together against independent rotation, but permitting said parts to shift laterally in any direction in a plane.

1,424,717. FLEXIBLE TROLLEY HARP. CHARLES J. DORRANCE, Chicago, Ill. Filed Oct. 17, 1921. Serial No. 508,287. 13 Claims. (Cl. 191—60.2.)



1. In a device of the kind described and in combination, a member arranged to be secured to a trolley pole and provided with a socket at one end, a web transversely of said socket inwardly of the end thereof, a second member arranged for attachment to a trolley wire contact device and provided with a web transversely across the lower end thereof, a pin projecting axially of said last-mentioned web, cushion means adapted to be seated between the webs of both said members and to receive said projecting pin, and means for securing said members together to permit a limited play therebetween in mutually transverse planes.

1,424,718. MUSICAL NOTATION. ORLANDO M. FEE, La Manda Park, Calif. Filed Oct. 28, 1921. Serial No. 511,095. 3 Claims. (Cl. 283—47.)



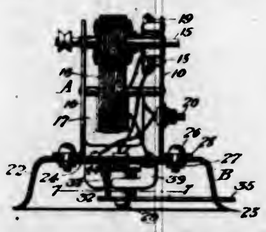
1. A method of forming a musical notation enabling easy transposition of a musical composition comprising adding to an ordinary five line staff a line above or below said staff or both, connecting the lines of this augmented staff in groups of five, marking each group with an appropriate signature so that the composition as written will read correctly in the signature marked.

1,424,719. BRICK-CLEANING MACHINE. SAMUEL M. FUNK, Long Beach, Calif. Filed July 29, 1920. Serial No. 399,967. 2 Claims. (Cl. 125—26.)



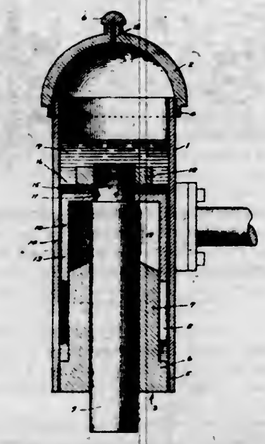
1. A cleaning machine including conveyors alongside of one another, cleaning surfaces at opposite sides of one of said conveyors, an abutment element beyond said cleaning surfaces for guiding the articles to be cleaned onto the second of said conveyors and turning said articles over upon a cleaned side, and a second set of cleaning surfaces at opposite sides of said second conveyor beyond said abutment element.

1,424,720. ELECTRIC SWITCH. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Original application filed Apr. 18, 1916, Serial No. 91,976. Divided and this application filed Nov. 26, 1917. Serial No. 203,976. 14 Claims. (Cl. 200—6.)



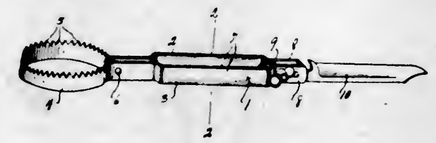
1. In an electric switch, a hollow casing member open at the bottom and at the top and adapted to rest on a suitable support, an insulating member secured in the open top portion of said casing member, and a current controlling device mounted on said insulating member and depending therefrom within said hollow base.

1,424,721. SHOCK ABSORBER. ROLAND M. GRUSS, San Francisco, Calif., assignor, by direct and mesne assignments, to Diamond Air Springs Company, San Francisco, Calif., a Corporation of California. Filed Mar. 29, 1921. Serial No. 456,781. 5 Claims. (Cl. 267—64.)



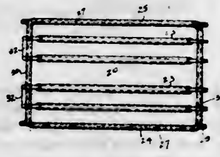
2. A shock absorber comprising a closed cylinder, a piston mounted for reciprocation within the cylinder and dividing the same into upper and lower air cushioning chambers, a liquid supported above the piston in the upper chamber of the cylinder and a head of compressed air above said liquid, means carried by the piston to confine the liquid above the piston, and means in the lower chamber of the cylinder adapted to telescope with the depending walls of the piston to compress the air in said lower chamber and produce a cushioning effect upon a down-ward stroke of the piston.

1,424,722. FISH SCALER. RUDOLPH C. HARTLEB, Cambridge, Md., assignor of one-half to Emanuel Reiner, Baltimore, Md. Original application filed July 18, 1921, Serial No. 485,489. Divided and this application filed Mar. 15, 1922. Serial No. 544,003. 3 Claims. (Cl. 17—10.)



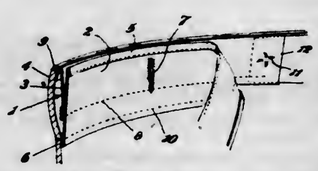
1. A device of the class described comprising a member constructed of a single piece of metal bent back upon itself to have substantially parallel sides, means for connecting the outer extremities of said sides, the intermediate portion of the member being enlarged to provide a head, a marginal portion of said head having serrations.

1,424,723. KNOCKDOWN METAL SHIPPING CASE. WILLIAM ROSS HARTLEY, New Haven, Conn. Filed July 19, 1920. Serial No. 397,311. 2 Claims. (Cl. 220—4.)



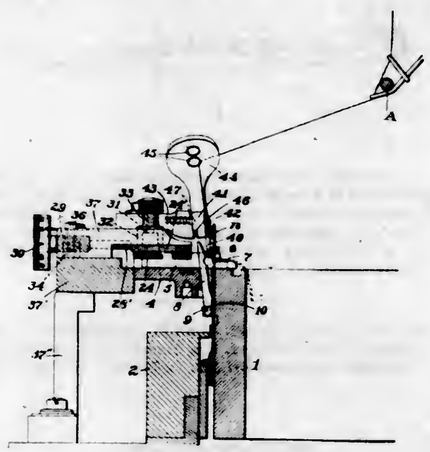
2. A metal shipping case comprising sides, and ends transversely corrugated and adapted to be interlocked at their edges, a top and a bottom each formed with open-ended longitudinal ribs shorter than the length of the said top and bottom and located between the end edges thereof, said top and bottom also formed with perforated flanges, the flanges of the ends also perforated in line with the perforations in the flanges of the top and bottom, and combined with fastening means adapted to pass through the perforations in the top and bottom and ends and through the said ribs.

1,424,724. WAISTBAND. MILTON L. HELLER, Brooklyn, N. Y. Filed Dec. 16, 1919. Serial No. 345,214. 4 Claims. (Cl. 2—142.)



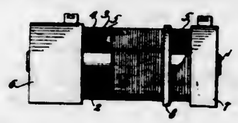
1. A waist band comprising a button hole strip having transverse button holes therein, a lining strip, and a straight line of stitching extending longitudinally and the entire length of said strips and passing through the lower ends of the button holes securing the strips together, reinforcing the button holes and constituting a guide for further operations on the waist band.

1,424,725. CAM MECHANISM FOR KNITTING MACHINES. KENNETH HOWIE, Norristown, and WILLIAM O. TAYLOR, Limerick, Pa., assignors to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Feb. 21, 1920. Serial No. 360,440. 12 Claims. (Cl. 66—21.)



11. A multiple feed knitting machine comprising knitting instruments, cams at the several feeds for said knitting instruments, micrometer adjusting means at each feed for the cams, each of said micrometer means being adjustable as to its indications to present like readings after the cams are initially set.

1,424,726. ELECTRICAL COIL. KENNETH S. JOHNSON, Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 22, 1920. Serial No. 432,521. 4 Claims. (Cl. 179—172.)



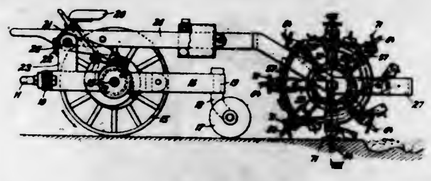
1. An electrical coil comprising a magnetic core, a plurality of windings wound in concentric relation thereon, said core projecting equidistant from each end of said windings, a single winding wound on one projection of said core, said single winding loosely coupled to said concentric windings.

1,424,727. HULLER RIB. WALTER E. B. JORDAN, Wilson, N. C. Filed July 18, 1921. Serial No. 485,552. 2 Claims. (Cl. 19—62.)

2. As an article of manufacture, a huller rib for a cotton gin comprising a central outwardly bowed portion, and an upper portion extending forward from said central portion and having its under surface continuously curved and merging into the curved surface of the central portion, said upper portion having a narrow neck adjacent its end and terminating in a relatively wide securing flange, the forward under surface of said flange being curved upwardly to a point above the upper face of the neck portion and the ends of said flange adjacent the neck portion being curved and merging into the sides of the neck portion.



1,424,728. PROCESS OF AND APPARATUS FOR SOIL TREATMENT. HERBERT KNIGHT, New York, N. Y., and CHARLES A. BREWER, Noroton Heights, Conn.; said Brewer assignor to said Knight. Filed Jan. 5, 1921. Serial No. 435,051. 17 Claims. (Cl. 97—38.)



1. The process of soil treatment consisting in progressively and periodically introducing an explosive fluid in an expanding state beneath the surface and with the requisite suddenness to shatter the soil.

1,424,729. PIGMENT AND PIGMENT COMPOSITION, ETC. KARL BARRÉ LAMB, New York, N. Y., assignor to The American Cotton Oil Company, a Corporation of New Jersey. Filed Apr. 27, 1921. Serial No. 464,986. 5 Claims. (Cl. 134—60.)

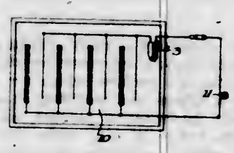
4. The method of producing a composite black pigment which comprises heating spent fuller's earth with stirring until the oil of the earth catches fire and burns itself out with the production of an intense black color.

1,424,730. HYDROMETER. CHARLES E. LINEBARGER, Chicago, Ill. Filed Feb. 26, 1919. Serial No. 279,289. 7 Claims. (Cl. 265—45.)

1. The combination of a hydrometric tube, means attached to one end of said tube for reducing the pressure in the tube, said tube having its extremities partly closed, a flexible tube attached to the other end of said hydrometric tube, and bodies of different densities enclosed within said tube, each of said bodies being homogeneous throughout, whereby if any portion of any of said bodies is worn or broken off from the body the remainder will be of the same density as the body was originally.

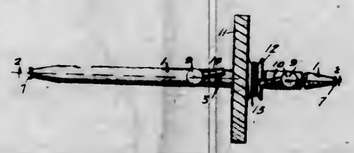


1,424,731. BATTERY-TEMPERATURE CONTROLLER. CHARLES E. LINEBARGER, Chicago, Ill. Filed Mar. 17, 1919. Serial No. 283,187. 2 Claims. (Cl. 171—314.)



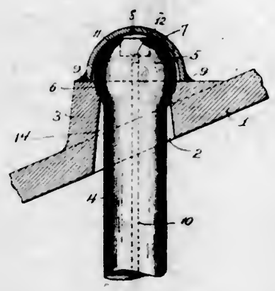
1. The combination of an electric battery, a high resistance circuit connected to said battery, a thermostat connected in said circuit and mounted in one of the cells of said battery and adapted to be heated thereby, and also adapted to close said circuit when said battery reaches a predetermined temperature, whereby the said battery is cooled by the flow of electricity therefrom after said predetermined temperature has been reached.

1,424,732. BREATH-EXERCISING DEVICE. JAMES W. MACPHERSON, Los Angeles, Calif. Filed Mar. 31, 1921. Serial No. 457,168. 3 Claims. (Cl. 46—37.)



1. An exercising device comprising a tube having a mouth piece, an air discharge from said tube, a rotatable fan actuated by said air discharge, a pulley secured to said fan and having a cord adapted to be wound thereon, and a standard extending above said fan and arranged to receive said cord over the same.

1,424,733. STAY-BOLT STRUCTURE. ROBERT S. MENNIE, Chicago, Ill., assignor to Flannery Bolt Company, Pittsburgh, Pa. Original application filed Feb. 5, 1916, Serial No. 76,333. Divided and this application filed Aug. 29, 1919. Serial No. 320,648. 4 Claims. (Cl. 85—1.5.)



1. In a staybolt structure, the combination with a boiler sheet having a bolt opening, of a mass of welding alloy having welded union with the outer face of the boiler sheet and having a shape forming an annular boss around the opening in the boiler sheet, a closure engaging said boss of welding alloy, and a staybolt having a head enclosed by said boss and closure.

1,424,734. ARTIFICIAL LIMB. HERBERT CLARADEN MILLER, Pittsburgh, Pa. Filed Jan. 14, 1922. Serial No. 529,218. 1 Claim. (Cl. 3—3.)

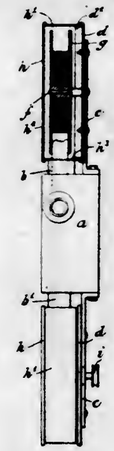


In an artificial limb a pair of aluminum sleeves apertured at their opposite ends and secured to the adjacent ends of any part of the limb to be given adjustment, by screws passing through said apertures and into the material of the limb, the free ends of said aluminum members sliding one within the other a pre-determined amount and secured therein by a steel rod, with a head on one end thereof and a nut on the other, said rod passing through aligned holes in the engaging portions of said members, the external holes in said members being counter sunk to receive the head of said rod, and securing nut, respectively.

1,424,735. MAGAZINE FOR CINEMATOGRAPHIC PROJECTORS. MORTON EARLE MYERS, New York, N. Y., assignor to The Precision Machine Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 14, 1919. Serial No. 277,074. 6 Claims. (Cl. 242—70.)

1. A magazine for cinematographic projectors embodying therein a back plate, a cover movably mounted in relation to said back plate and having a deep flange adapted to project across the edge of a reel, said flange having a slot therein through which the film may pass to the lens box, and a reel spindle supported so as to be

positioned intermediate said back plate and said cover, with its free end toward said cover, said spindle being



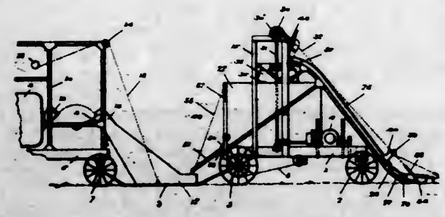
adapted to hold a film reel away from said base, whereby with the opening of the magazine, access may be had to the film upon said reel from either side thereof.

1,424,736. SENSITIZED-ELEMENT PACKAGE FOR PHOTOGRAPHIC APPARATUS. WALTER PACK, Takoma Park, Md., assignor to Charles A. Rogers, Hartford, Conn. Original application filed Jan. 29, 1921, Serial No. 441,019. Divided and this application filed July 11, 1921. Serial No. 483,764. 6 Claims. (Cl. 95—72.)



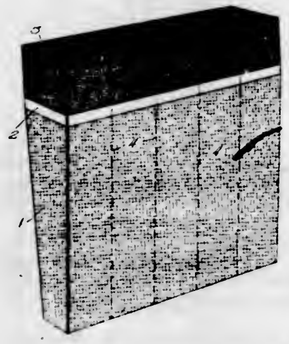
1. A photographic sensitized element package comprising a sensitized element provided with a severing portion, and surrounded by a completely sealed enclosing member which is adapted to be opened by cutting contact with said severing portion, substantially as described.

1,424,737. CONCRETE-MIXER LOADER. VIRGIL M. PRICE, San Francisco, Calif. Filed Jan. 6, 1920. Serial No. 349,737. 5 Claims. (Cl. 214—1.)



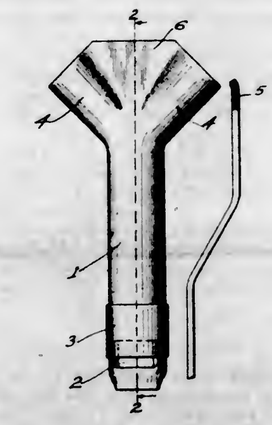
1. A concrete mixer loader comprising a frame, bins mounted on said frame side by side and having a longitudinal partition between them, said bins having rear discharge openings and gates, means for elevating materials and dumping same over said partition, a longitudinal chute hinged on said partition and adapted to be swung toward opposite sides for directing the material into one bin or the other, and means for receiving the materials from all of said discharge openings for delivering same to a mixer.

1,424,738. PHENOLIC CONDENSATION PRODUCT ARTICLE AND METHOD OF MANUFACTURE. LAWRENCE V. REDMAN, ARCHIE J. WEITH, and FRANK P. BROCK, Evanston, Ill., assignors to Redmanol Chemical Products Company, Chicago, Ill., a Corporation of West Virginia. Filed Sept. 8, 1921. Serial No. 499,213. 16 Claims. (Cl. 18—59.)



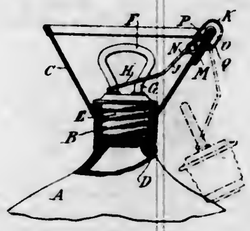
1. The method of uniting sections of infusible and substantially insoluble phenolic condensation products, which comprises subjecting the surfaces which are to be united to the action of a solvent and providing at said surfaces a fusible phenolic condensation product, and subjecting the plates to the action of heat while the surfaces to be united are in contact, and thus converting the fusible product to an infusible stage.

1,424,739. BURNER. JOHN B. REEVES, Los Angeles, Calif. Filed Mar. 2, 1921. Serial No. 449,101. 1 Claim. (Cl. 158—116.)



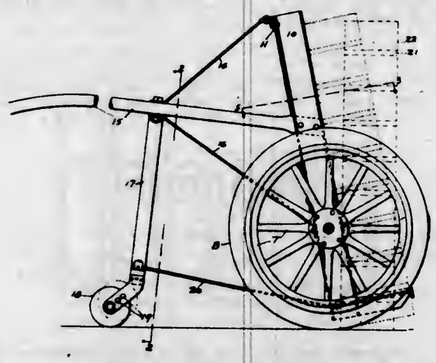
A burner comprising a tubular body, the upper end of which terminates in a Y-shaped head, the diverging arms of which head are hollow and communicate with the opening through the tubular body, parallel walls formed integral with and arranged between the inner portions of the arms of the Y-shaped head, said walls extending above the upper ends of the arms of the Y-shaped head, and the upper portions of said walls being spaced apart to form a relatively narrow slot that communicates with the openings through both arms of the Y-shaped head.

1,424,740. ATTACHMENT FOR WATER-BOTTLE STOPPERS OR THE LIKE. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Sept. 12, 1916. Serial No. 119,619. 11 Claims. (Cl. 215—101.)



1. A member having means for detachable connection to the funnel of a hot water bag or the like, and having a guide for a retainer, along which the latter may move, such guide extending along the inner side of the funnel.

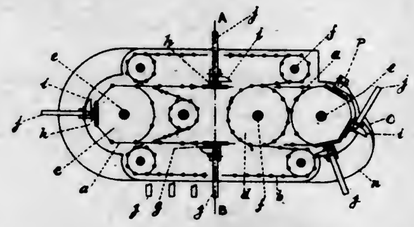
1,424,741. BRICK-CARRYING VEHICLE. DAVID F. SHOPE, Portland, Oreg., assignor to The Shope Brick Company, a Corporation of Oregon. Filed Oct. 25, 1920. Serial No. 419,280. 1 Claim. (Cl. 280—53.)



In a vehicle of the kind described, the combination of, an upright carrying frame pivotally mounted on an axle at a substantial distance from the upper end of the frame, and a two-wheeled truck having the same axle and supporting wheels of a diameter relatively large with respect to the length of said frame and equipped with highly resilient tires.

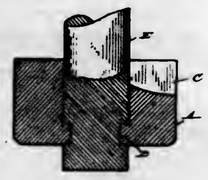
1,424,742. APPARATUS SUITABLE FOR USE IN THE DRYING OF PRINTED WALL PAPERS. JAMES SHORROCK, Darwen, England. Filed Mar. 22, 1921. Serial No. 454,505. 1 Claim. (Cl. 34—20.)

In apparatus known as "hanging tackle" suitable for use in the drying of printed wall papers, material-supporting rods mounted on movable continuous chains, pivots for enabling each of said rods to turn in a vertical plane, and hinges for enabling each of said rods to turn also in a horizontal plane, inclined surfaces operating by contact to move each of said rods on its hinge for opening the latter, as well as for raising said rod, together with a movable abutment member operated by movable arms in intermittent contact with a moving part of an



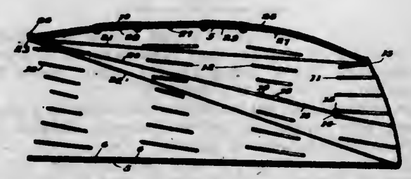
ordinary feeding mechanism of a wall paper drying plant, said movable member operating to strike near the root end of each of said rods in turn, for causing the latter to sweep rapidly round in the horizontal plane referred to, or rapidly to close the hinge aforesaid, all in manner and for the purpose substantially as herein set forth.

1,424,743. COUNTERBORING TOOL. JOHN HUGO SMITH, Detroit, Mich., assignor to The Eclipse Interchangeable Counterbore Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 19, 1920. Serial No. 367,138. 2 Claims. (Cl. 279—89.)



1. The combination with a holder member, of a tool member detachably mounted upon said holder member and adapted to be driven thereby, one of said members being formed with a socket and the other having a shank for engagement with said socket, the socket forming member having a pair of opposed ribs within its socket and said shank having oppositely arranged plane surfaces to pass between said ribs and being formed with oppositely arranged driving faces extending in rear of its plane faces, the latter being of greater depth than the depth of said ribs and said driving faces being of substantially the same depth as said ribs leaving notched portions engageable through a slight relative rotation of the holder member and tool member after the initial insertion of the shank in the socket.

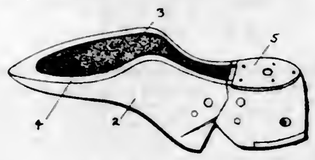
1,424,744. SPRING STRUCTURE. DESIRE H. VAN HOVE, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich. Filed Apr. 28, 1921. Serial No. 465,102. 11 Claims. (Cl. 155—181.)



1. In a spring structure for the back of car seats or the like, a substantially vertical back frame, a substantially vertical front frame, superimposed rows of double

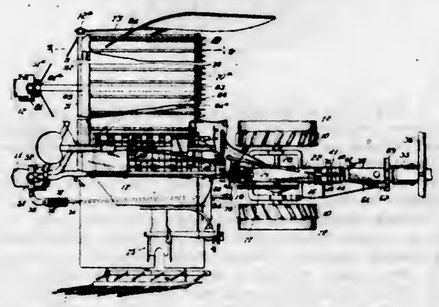
conical springs extending forwardly from the back to the front frame and connected to the frames, a row of substantially barrel shaped springs disposed over the aforesaid rows of springs, a wire connected to the latter springs intermediate their ends, and stay wires connected to said wire and to the lower edge of the front frame to stay and prevent sagging of the first mentioned wire or said upper row of barrel shaped springs.

1,424,745. PROCESS OF SHOE MANUFACTURE. SIDNEY C. WILSON, Penn Yan, N. Y., assignor to Wilson Process, Incorporated, Rochester, N. Y., a Corporation of New York. Filed Apr. 25, 1918. Serial No. 230,633. 3 Claims. (Cl. 12—142.)



1. That improvement in the process of manufacturing shoes, which consists in channeling an insole, turning back the channel flap, assembling said insole and an upper on a wooden last with the channeled face of the insole next to the bottom face of the last supplying a tempering agent to the channel flap, and performing the making operations on the shoe.

1,424,746. HARVESTING MACHINE. WALTER L. HENDRICKS, Aurora, Ill. Filed Jan. 25, 1918. Serial No. 213,758. 15 Claims. (Cl. 56—210.)



1. In a harvesting machine, in combination, a frame, front and rear carrying wheels for the frame, said frame comprising two sections pivotally connected at a point between said wheels, means for changing the vertical angular relation between said sections, a pole, an intermediate member between said pole and the forward section and connected to both and means for changing the vertical angular relation of the intermediate member relatively to the section to which it is connected.

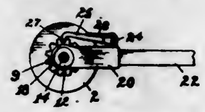
1,424,747. IDENTIFICATION TAG FOR BABIES. LAWRENCE A. HUNTOON and JOSEPHINE G. HUNTOON, Springfield, Mass. Filed Aug. 26, 1920. Serial No. 406,245. 1 Claim. (Cl. 40—10.)

An identification tag for infants consisting of a transparent body having an external laterally disposed lug thereon provided with an opening, a cap adapted to be detachably secured to the body and provided with a similar lug adapted to align with the first lug, said body being capable of holding a record of birth so that the same may be read through the body and cap and a cord or the like adapted to be extended through the lugs to lock the cap against displacement and provided with means on its ends for securing the same about the body



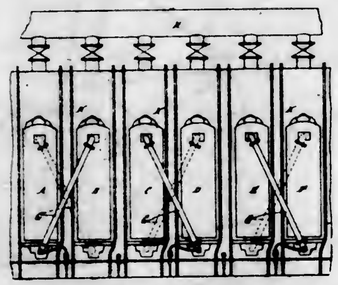
of the infant to be identified, said cap having screw threaded engagement with said body.

1,424,748. LIFTING JACK. MILES T. STRANAHAN, Elyria, Ohio. Filed Apr. 2, 1920. Serial No. 370,679. 5 Claims. (Cl. 254—98.)



1. In a lifting jack, the combination of a screw, means for supporting the screw, means for permitting longitudinal movement of the screw and preventing rotary movement thereof, a power wheel for causing longitudinal movement of the screw, a yoke, a lever, means pivoted to the side of the lever for actuating the power wheel, and the lever being removably connected to the yoke whereby the means pivoted to the side of the lever for actuating the power wheel may be changed to either side of the power wheel, substantially as described.

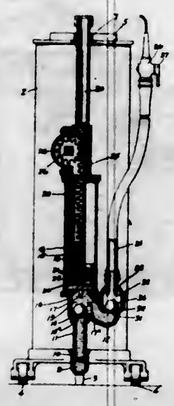
1,424,749. METHOD AND APPARATUS FOR INCREASING THE YIELD OF HYDROGEN IN COAL GAS. JOHN HENRY WEST, Bayswater, and ARTHUR JAQUES, Waterloo, England. Filed May 13, 1922. Serial No. 560,806. 9 Claims. (Cl. 48—210.)



1. A process for obtaining an increased proportion of free hydrogen in the gases evolved in the carbonization of coal, the said gases being intended for the production of hydrogen by extracting it therefrom, which process consists in stripping the gases evolved during the initial stages of the carbonization of the coal by subjecting them to a purifying treatment for removal therefrom of the tarry vapours, adding steam to the stripped gases, passing the mixture of stripped gases and steam so obtained over the partially carbonized coal or coke, the temperatures of which latter has reached a value relatively high compared with the temperatures obtaining during the aforesaid initial stages of carbonization, and in effecting the carbonization at a rate sufficiently slow to allow the greater proportion of all the hydrocarbon products including the tarry vapours and even such gases as methane and ethylene, produced during the initial stages of the carbonization, to be decomposed during their passage over the aforesaid partially carbonized coal or coke.

REISSUES.

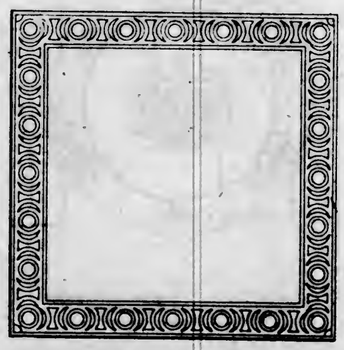
15,427. GREASE OR OIL DISPENSING APPARATUS. HANS M. BOE, Minneapolis, Minn. Filed Mar. 27, 1922. Serial No. 564,251. Original No. 1,369,517, dated Feb. 22, 1921, Serial No. 282,139, filed Mar. 12, 1919. 9 Claims. (Cl. 221—80.)



6. The combination, with a tank adapted to contain a lubricant, of a pump arranged outside the walls of said tank and adjacent thereto and having a pipe connection for withdrawing the contents of the latter, said pump including a barrel mounted on said pipe connection, a hollow guide projecting upwardly from said barrel adjacent the walls of said tank and forming a hand grip, a piston in said barrel having a rod slidable in said guide, a pinion geared to said rod and having an operating crank, a discharge duct connected with the lower portion of said pump, and valves for regulating the delivery of the lubricant from said tank to said barrel and to said discharge duct when said piston is reciprocated.

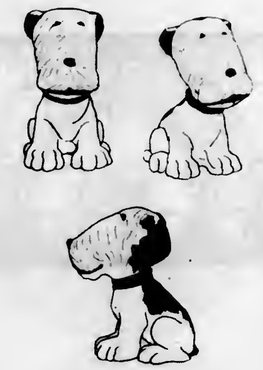
DESIGNS.

61,287. TYPEWRITER MAT. THOMAS W. ARTER, Bellaire, Ohio. Filed Nov. 23, 1920. Serial No. 426,092. Term of patent 14 years.



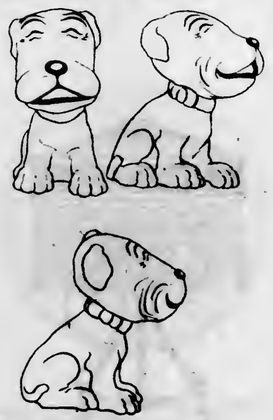
The ornamental design for a typewriter mat as shown.

61,288. TOY DOG. BURTON O. BIDWELL, Chicago, Ill., assignor to Frank W. Hopkins, Wilmette, Ill. Filed Apr. 1, 1922. Serial No. 1,497. Term of patent 7 years.



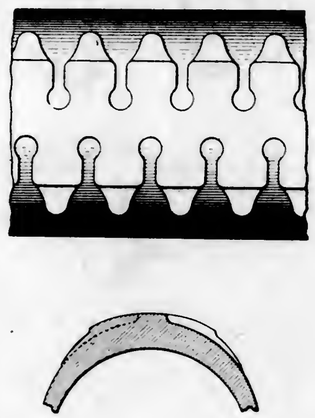
The ornamental design for a toy dog substantially as shown.

61,289. TOY DOG. BURTON O. BIDWELL, Chicago, Ill., assignor to Frank W. Hopkins, Wilmette, Ill. Filed Apr. 15, 1922. Serial No. 1,782. Term of patent 7 years.



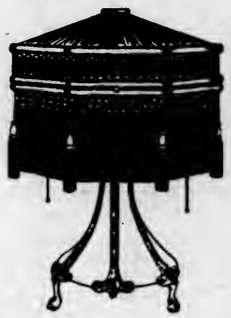
The ornamental design for a toy dog substantially as shown.

61,290. TIRE TREAD. FREDERICK A. BOLLINGER, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 14, 1921. Serial No. 515,140. Term of patent 14 years.



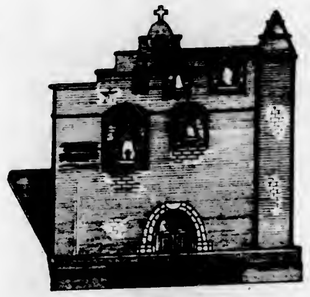
The ornamental design for a tire tread as shown.

61,291. COMBINED LAMP AND PHONOGRAPH. ANTHONY J. BURNS, Indiana Harbor, Ind., assignor to Burns-Pollock Electric Manufacturing Company, Indiana Harbor, Ind., a Corporation of Indiana. Filed Nov. 14, 1921. Serial No. 515,154. Term of patent 14 years.



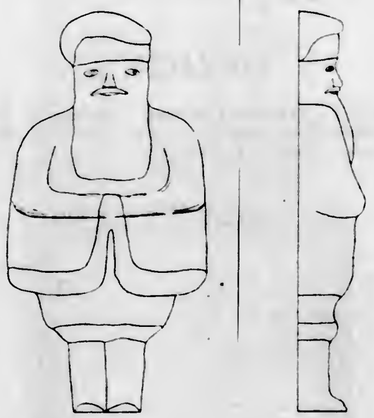
The ornamental design for a combined lamp and phonograph, as shown.

61,292. BOOKHOLDER. ARMITAGE S. C. FORBES and HARRYE R. P. FORBES, Los Angeles, Calif. Filed Nov. 15, 1920. Serial No. 424,308. Term of patent 3½ years.



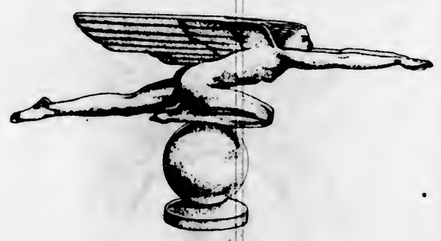
The ornamental design for a book holder as shown.

61,293. ICE CREAM, POP CORN, CANDY, OR CAKE. WILLIAM H. FRANCIS, Southington, Conn. Filed Mar. 1, 1922. Serial No. 959. Term of patent 7 years.



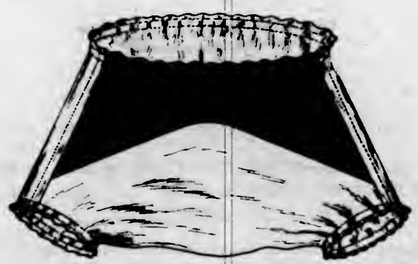
The ornamental design for ice cream, pop corn, candy, or cake, as shown.

61,294. STATUETTE. HARRIET W. FRISHMUTH, New York, N. Y. Filed Jan. 16, 1922. Serial No. 226. Term of patent 3½ years.



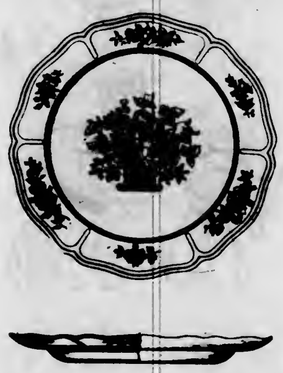
The ornamental design for a statuette, as shown.

61,295. GARMENT PROTECTOR. MAUDE SINCLAIR GEORGE, St. Louis, Mo. Filed Apr. 8, 1922. Serial No. 1,638. Term of patent 14 years.



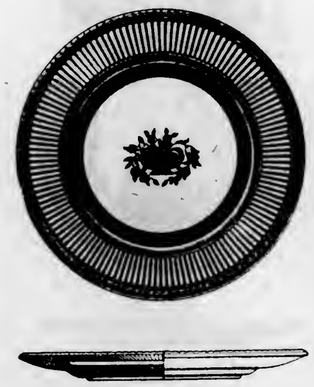
The ornamental design for the garment protector, as shown.

61,296. PLATE OR SIMILAR ARTICLE. JOHN EDWARD GOODWIN, Stoke-upon-Trent, England, assignor to Josiah Wedgwood & Sons, Incorporated of America, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1921. Serial No. 511,537. Term of patent 14 years.



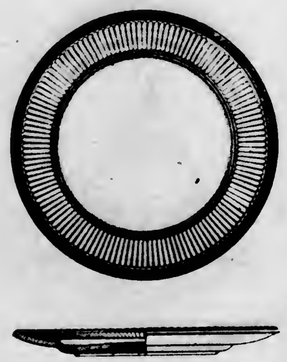
The ornamental design for a plate or similar article as shown and described.

61,297. PLATE OR SIMILAR ARTICLE. JOHN EDWARD GOODWIN, Stoke-upon-Trent, England, assignor to Josiah Wedgwood & Sons, Incorporated of America, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1921. Serial No. 511,538. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown and described.

61,298. PLATE OR SIMILAR ARTICLE. JOHN EDWARD GOODWIN, Stoke-upon-Trent, England, assignor to Josiah Wedgwood & Sons, Incorporated of America, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1921. Serial No. 511,539. Term of patent 14 years.



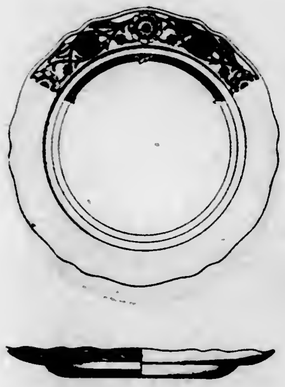
The ornamental design for a plate or similar article, as shown and described.

61,299. PLATE OR SIMILAR ARTICLE. JOHN EDWARD GOODWIN, Stoke-upon-Trent, England, assignor to Josiah Wedgwood & Sons, Incorporated of America, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1921. Serial No. 511,540. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown and described.

61,300. PLATE OR SIMILAR ARTICLE. JOHN EDWARD GOODWIN, Stoke-upon-Trent, England, assignor to Josiah Wedgewood & Sons, Incorporated of America, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1921. Serial No. 511,541. Term of patent 14 years.



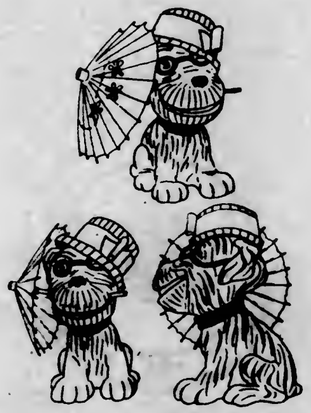
The ornamental design for a plate or similar article, as shown and described.

61,301. PLATE OR SIMILAR ARTICLE. JOHN EDWARD GOODWIN, Stoke-upon-Trent, England, assignor to Josiah Wedgwood & Sons, Incorporated of America, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1921. Serial No. 511,542. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown and described.

61,302. TOY DOG. FRANK W. HOPKINS, Wilmette, Ill. Filed Apr. 1, 1922. Serial No. 1,499. Term of patent 7 years.



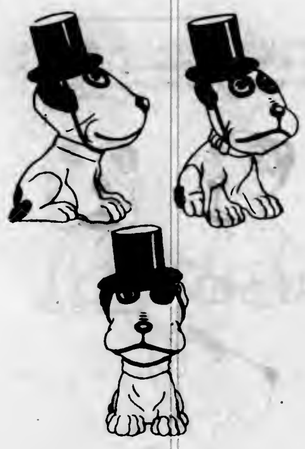
The ornamental design for a toy dog, substantially as shown.

61,303. TOY DOG. FRANK W. HOPKINS, Wilmette, Ill. Filed Apr. 1, 1922. Serial No. 1,500. Term of patent 7 years.



The ornamental design for a toy dog substantially as shown.

61,304. TOY DOG. FRANK W. HOPKINS, Wilmette, Ill. Filed Apr. 1, 1922. Serial No. 1,501. Term of patent 7 years.



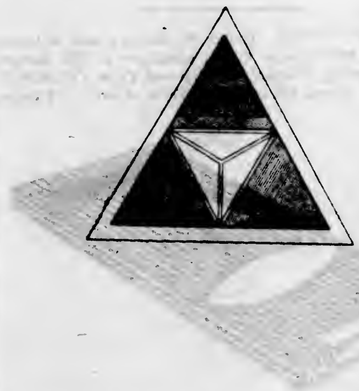
The ornamental design for a toy dog substantially as shown.

61,305. TOY DOG. FRANK W. HOPKINS, Wilmette, Ill. Filed Apr. 15, 1922. Serial No. 1,771. Term of patent 7 years.



The ornamental design for a toy dog, substantially as shown.

61,306. BUTTON, BADGE, EMBLEM, PIN, OR ARTICLE OF SIMILAR NATURE. FREDERICK H. JOHNSON, East Greenwich, R. I. Filed Jan. 4, 1922. Serial No. 32. Term of patent 7 years.



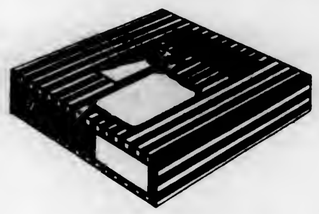
The ornamental design for a button, badge, emblem, pin, or article of similar nature, as shown.

61,307. COMBINED PIN AND HAIRPIN HOLDER. GENEVA KAHN, Kirksville, Mo. Filed Oct. 20, 1921. Serial No. 509,189. Term of patent 3½ years.



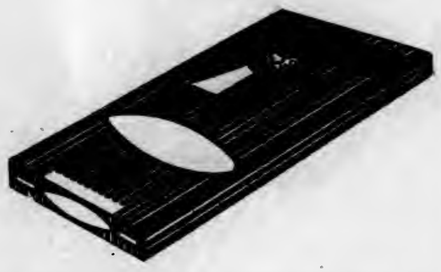
The ornamental design for a combined pin and hairpin holder substantially as shown.

61,308. BOX COVER. HARRY W. KELSEY and WILLIAM H. BAER, Middletown, Conn., assignors to The Russell Manufacturing Company, Middletown, Conn. Filed Sept. 26, 1921. Serial No. 503,394. Term of patent 14 years.



The ornamental design for a box cover, as shown.

61,309. BOX COVER. HARRY W. KELSEY and WILLIAM H. BAER, Middletown, Conn., assignors to The Russell Manufacturing Company, Middletown, Conn. Filed Sept. 26, 1921. Serial No. 503,395. Term of patent 14 years.



The ornamental design for a box cover, as shown.

61,310. BOX COVER. HARRY W. KELSEY and WILLIAM H. BAER, Middletown, Conn., assignors to The Russell Manufacturing Company, Middletown, Conn. Filed Sept. 26, 1921. Serial No. 503,396. Term of patent 14 years.



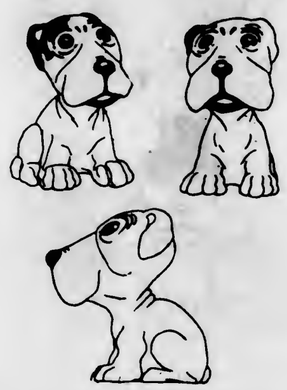
The ornamental design for a box cover, as shown.

61,311. CARTON. HARRY W. KELSEY and WILLIAM H. BAER, Middletown, Conn., assignors to The Russell Manufacturing Company, Middletown, Conn. Filed Sept. 26, 1921. Serial No. 503,397. Term of patent 14 years.



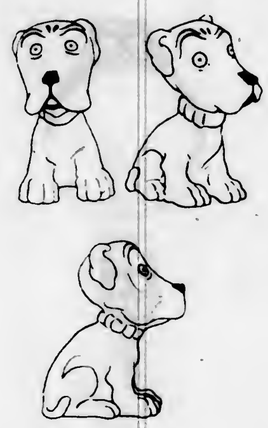
The ornamental design for a carton, as shown.

61,312. TOY DOG. ARTHUR LUND, Chicago, Ill., assignor to Frank W. Hopkins, Wilmette, Ill. Filed Apr. 1, 1922. Serial No. 1,498. Term of patent 7 years.



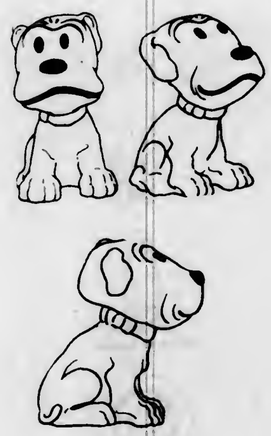
The ornamental design for a toy dog substantially as shown

61,313. TOY DOG. ARTHUR LUND, Chicago, Ill., assignor to Frank W. Hopkins, Wilmette, Ill. Filed Apr. 15, 1922. Serial No. 1,779. Term of patent 7 years.



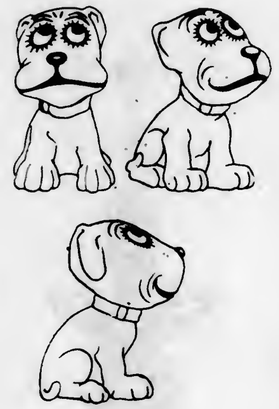
The ornamental design for a toy dog substantially as shown.

61,314. TOY DOG. ARTHUR LUND, Chicago, Ill., assignor to Frank W. Hopkins, Wilmette, Ill. Filed Apr. 15, 1922. Serial No. 1,780. Term of patent 7 years.



The ornamental design for a toy dog substantially as shown.

61,315. TOY DOG. ARTHUR LUND, Chicago, Ill., assignor to Frank W. Hopkins, Wilmette, Ill. Filed Apr. 15, 1922. Serial No. 1,781. Term of patent 7 years.



The ornamental design for a toy dog substantially as shown.

61,316. DOLL, STATUETTE, OR SIMILAR ARTICLE. MERWIN T. MIFFLIN, Duquoin, Ill. Filed Feb. 8, 1922. Serial No. 592. Term of patent 14 years.



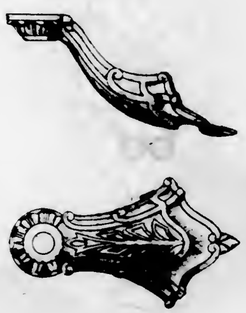
The ornamental design for a doll, statuette, or similar article substantially as shown.

61,317. LAMP FIXTURE. ALBERT J. D. OHM, Astoria, N. Y., assignor to MAX SCHAFFER CO., a Corporation of New York. Filed Nov. 29, 1921. Serial No. 518,692. Term of patent 3½ years.



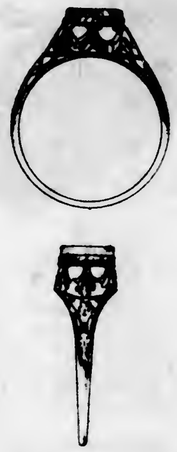
The ornamental design for a lamp fixture as shown.

61,318. ARM FOR LAMP FIXTURES. ALBERT J. D. OHM, Astoria, N. Y., assignor to Max Schaffer Co., a Corporation of New York. Filed Nov. 29, 1921. Serial No. 518,693. Term of patent 3½ years.



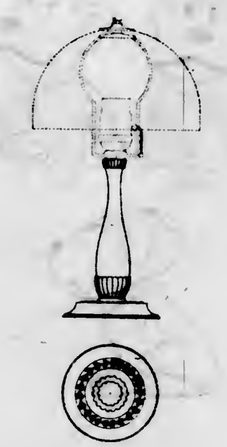
The ornamental design for an arm for lamp fixtures.

61,319. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed May 24, 1922. Serial No. 2,399. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

61,320. LAMP STANDARD. EDWIN B. PIKE, Milwaukee, Wis., assignor to Phoenix Light Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 16, 1921. Serial No. 501,205. Term of patent 3½ years.



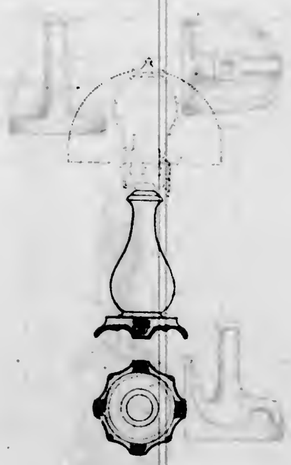
The ornamental design for a lamp standard, as shown.

61,321. LAMP STANDARD. EDWIN B. PIKE, Milwaukee, Wis., assignor to Phoenix Light Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 16, 1921. Serial No. 501,206. Term of patent 3½ years.



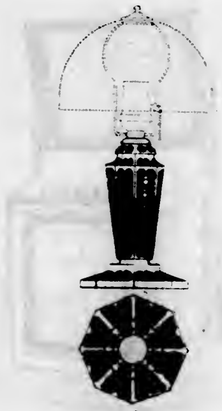
The ornamental design for a lamp standard, as shown.

61,322. LAMP STANDARD. EDWIN B. PIKE, Milwaukee, Wis., assignor to Phoenix Light Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 16, 1921. Serial No. 501,207. Term of patent 3½ years.



The ornamental design for a lamp standard, as shown.

61,323. LAMP STANDARD. EDWIN B. PIKE, Milwaukee, Wis., assignor to Phoenix Light Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 16, 1921. Serial No. 501,208. Term of patent 3½ years.



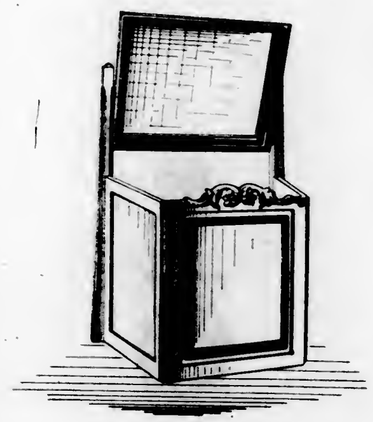
The ornamental design for a lamp standard, as shown.

61,324. PORTABLE MOTION-PICTURE SCREEN SUPPORT. PAUL S. PONON, Newark, N. J., assignor to Beaver Machine and Tool Co., Inc., Newark, N. J. Filed Feb. 6, 1922. Serial No. 577. Term of patent 14 years.



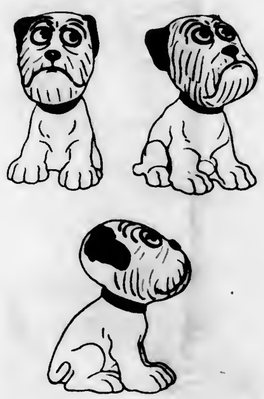
The ornamental design for a portable motion-picture-screen support, as shown.

61,325. PORTABLE MOTION-PICTURE SCREEN SUPPORT. PAUL S. PONON, Newark, N. J., assignor to Beaver Machine and Tool Co., Inc., Newark, N. J. Filed Feb. 9, 1922. Serial No. 614. Term of patent 14 years.



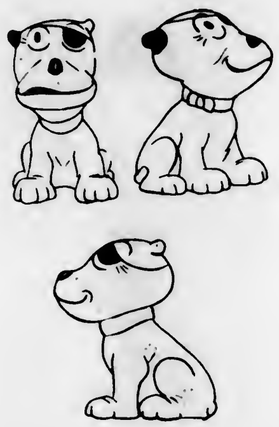
The ornamental design for a portable motion-picture screen support, as shown.

61,326. TOY DOG. WILLIAM H. POWERS, Chicago, Ill., assignor to Frank W. Hopkins, Wilmette, Ill. Filed Apr. 7, 1922. Serial No. 1,496. Term of patent 7 years.



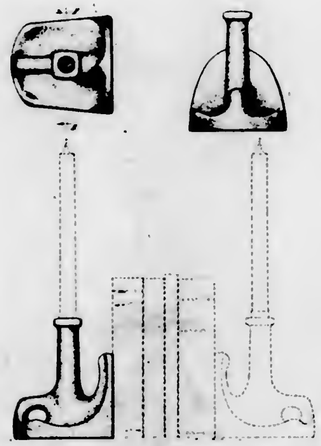
The ornamental design for a toy dog substantially as shown.

61,327. TOY DOG. WILLIAM H. POWERS, Chicago, Ill., assignor to Frank W. Hopkins, Wilmette, Ill. Filed Apr. 15, 1922. Serial No. 1,774. Term of patent 7 years.



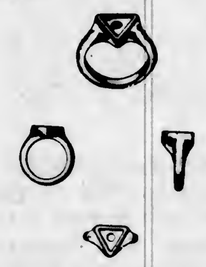
The ornamental design for a toy dog substantially as shown.

61,328. COMBINED BOOK END AND CANDLESTICK. HARVEY REBER, Highwood, Ill., assignor of one-half to Genevieve Gillette, Highland Park, Ill. Filed July 7, 1921. Serial No. 483,060. Term of patent 3½ years.



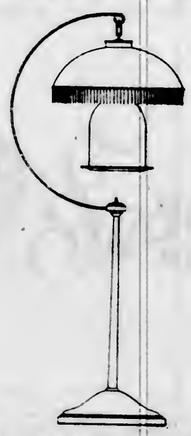
The ornamental design for a combined book end and candlestick as shown.

61,329. RING. FREDERICK W. RIEHL, Yonkers, N. Y. Filed Nov. 22, 1921. Serial No. 517,112. Term of patent 3½ years.



The ornamental design for a ring as shown.

61,330. COMBINATION LAMP STAND. LOUIS J. RITICH, Cleveland, Ohio. Filed Dec. 2, 1919. Serial No. 342,636. Term of patent 3½ years.



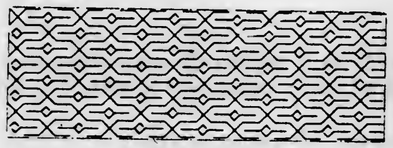
The ornamental design for a combination lamp stand, as shown.

61,331. PORTABLE LAMP BASE. THOMAS L. RYAN, Muncie, Ind. Filed July 25, 1921. Serial No. 487,545. Term of patent 3½ years.



The ornamental design for a portable lamp base, as shown.

61,332. SAFETY PAPER FOR CHECKS, DRAFTS, OR NEGOTIABLE INSTRUMENTS. JOHN F. SHOEMAKER, Chicago, Ill., assignor to Protectu Corporation, Chicago, Ill. Filed Feb. 27, 1922. Serial No. 928. Term of patent 7 years.



The ornamental design for safety paper for checks, drafts, or negotiable instruments as shown.

61,333. AUTOMOBILE TIRE. ISIDORE PETER SMITH, Chicago, Ill. Filed Feb. 16, 1920. Serial No. 359,191. Term of patent 14 years.



The ornamental design for an automobile tire, as shown.

61,334. BADGE, BUTTON, EMBLEM, OR ARTICLE OF SIMILAR NATURE. FRED WALTER, Jr., Los Angeles, Calif., assignor to Carl Entenmann Jewelry Company, Los Angeles, Calif. Filed Dec. 3, 1921. Serial No. 519,774. Term of patent 3½ years.



I claim the ornamental design for a badge, button, emblem, or article of similar nature as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 1, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 124,438. (CLASS 39. CLOTHING.) GOLDSMITH & LERNER, INC., New York, N. Y. Filed Nov. 1, 1919.

ASC Sealect SHIRT

No claim being made to the word "Shirt" apart from the mark shown.

Particular description of goods.—Dress, Negligee, and Work Shirts, Pyjamas, Collars, and Cuffs, Men's Flat Underwear—viz, Two-Piece and Union Suits.

Claims use since Oct. 1, 1919.

Ser. No. 126,672. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARL C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, doing business as Simplex Player Action Company, Worcester, Mass. Filed Dec. 31, 1919.

Simplex

Trade-mark, "Simplex."

Particular description of goods.—Mechanical-Piano Playing Apparatus.

Claims use since about June, 1900.

Ser. No. 127,256. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COVELAND ORCHARDS, Greensboro, N. C. Filed Jan. 17, 1920.

COVELAND REGISTERED MAGNUM BONUM C O COLOR QUALITY TRADE MARK

No claim is made to use of the words "Magnum," "Registered," "Bonum," "Color," "Trade-Mark," and "Quality" apart from the mark shown in the drawing. No claim is made to representation of an apple apart from mark shown in drawing.

Particular description of goods.—Apples, Fresh, Dried, or Canned.

Claims use since October, 1918.

Ser. No. 131,026. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) KEWAUKUM ALUMINUM COMPANY, Kewaskum, Wis. Filed Apr. 12, 1920.

KEWASKUM ALUMINUM COMPANY KEWASKUM WARE

No claim is made to exclusive use of the words "Ware" and "Trade-Mark," apart from the mark.

Particular description of goods.—Aluminum Kitchen Utensils—Namely, Pans, Kettles, Pots, Combination

Cookers, Drinking Cups, Jelly Molds, Cake Tins, Pie Plates, Strainers, Double Boilers, Tricolators, Percolators, Covers, Plates, Trays, Roasters, Griddles, Casseroles, Mixing Bowls, Muffin Pans, Skimmers, Cake Pans, Dippers, Ladles, Cake Turners, Spouts, Funnels, Coffee Balls, and Tea Balls.

Claims use since Mar. 19, 1920.

Ser. No. 131,536. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PORTO RICO FRUIT EXCHANGE, San Juan, P. R. Filed Apr. 23, 1920.

Tropiko

Particular description of goods.—Oranges, Grapefruit, and Pineapples in Their Natural State and in Tins. Jams, Marmalades, and Jellies.

Claims use since Sept. 1, 1917.

Ser. No. 133,264. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920.

SICRO

Particular description of goods.—Alloys Used for Electrical Resistance and Heating Elements.

Claims use since Nov. 18, 1919.

Ser. No. 137,371. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. T. GLASSER, doing business as Poppette Confection Co., Minneapolis, Minn. Filed Sept. 20, 1920.

Poppettes

Particular description of goods.—Candied Popcorn.

Claims use since Jan. 10, 1920.

Ser. No. 137,957. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ORLEANS COFFEE COMPANY LTD., New Orleans, La. Filed Oct. 5, 1920.

Arabian Prince

Particular description of goods.—Coffee.

Claims use since Sept. 28, 1920.

Ser. No. 138,749. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISHOP & COMPANY, Los Angeles, Calif. Filed Oct. 25, 1920.

SIERRA

Particular description of goods.—Chocolate in Cake Form Used for Coating Candies, Cakes, and Like Goods, Chocolate Candies, and Sweet Chocolate for Eating Purposes.

Claims use since July, 1903, for chocolate candies; since July 10, 1917, for sweet chocolate and cake chocolate.

Ser. No. 140,705. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. ARBOUR, Pittsburgh, Pa. Filed Dec. 7, 1920.

ARBOUR'S

TRADE MARK

GOITRE MEDICINE

No claim being made to exclusive use of words "Trade-Mark," "Goitre," "Medicine," apart from the mark shown on drawing.

Particular description of goods.—A Preparation for the Treatment of Goiters.

Claims use since September, 1919.

Ser. No. 141,820. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass. Filed Jan. 3, 1921.

NATWIRE

Particular description of goods.—Metal Kitchen and Toilet Goods and Hardware, Consisting of Bathroom Fixtures Wholly or Partly of Wire, Belt Hooks, Bird Cage Hooks and Springs, Bolts and Nuts, Broilers and Toasters, Brush and Comb Holders, Cake Coolers, Chains, Coat and Hat Hooks, Cooking Baskets, Corn Poppers, Cotter Pins, Cup Hooks, Dish Covers, Dish Drainers, Door Mats Wholly or Partly of Metal, Dowel Screws, Drawer Pulls, Eyebolts, Florists' Wires, Frying Baskets, Garment Hooks, Hammock Hooks, Screw Hooks, Screw Eyes, Key Holders, Meat Hooks and Hangers, Molding Hooks, Pan Grates, Plate Handles and Hangers, Pot Chains and Stands, Wire Rings, Screen Lifts, Screws, Screw Eyes and Hooks, Shelf Brackets, Shoe Plates, Skewers, Skimmers, Snap Hooks, Soap Brackets, Soap Holders, Sponge Baskets, Springs, Staples, Strainers, Thumb Screws, Toilet-Paper Holders, Toothbrush Holders, Towel Racks and Bars, Tumbler Holders, Upholsterers' Nails, Wire Pie Plates, Wire Hooks, Wire Swivels.

Claims use since 1908.

Ser. No. 142,845. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE INTERNATIONAL ALL-STEEL AIRCRAFT SYNDICATE, LTD., London, England. Filed Jan. 27, 1921.

DREADNOUGHT

Particular description of goods.—Aircraft—Namely, Flying Machines, Aeroplanes, and Seaplanes.

Claims use since about March, 1920.

Ser. No. 143,462. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STERLING MAGNESIA CO. INC., New York, N. Y. Filed Feb. 11, 1921.

SOLUTION CITRATE OF MAGNESIA U.S.P.

No claim is made to the words "Solution Citrate of Magnesia U. S. P." The field of the filling cap upon which the words "Solution Citrate of Magnesia U. S. P." occurs, together with portions of the shield, is blue or substantially blue in color, as illustrated.

Particular description of goods.—Citrate of Magnesia.

Claims use since Dec. 14, 1920.

Ser. No. 143,846. (CLASS 39. CLOTHING.) UNITED HOSIERY COMPANY, New York, N. Y. Filed Feb. 19, 1921.

UNITED HOSE

No claim is made to the exclusive use of the word "Hose" apart from the mark shown.

Particular description of goods.—Hosiery.

Claims use since on or about May 14, 1918.

Ser. No. 144,297. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICHARDS & CO. (LONDON) LIMITED, London, England. Filed Mar. 3, 1921.

THE GARDEN OF ALLAH

Trade-mark, "The Garden of Allah."

Particular description of goods.—Dates.

Claims use since Nov. 5, 1920.

Ser. No. 145,380. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. WM. WINBERG, trading as Foameg Co., Wilmette, Ill. Filed Mar. 28, 1921.

FOAMEG

"Foameg," (trade-mark).

Particular description of goods.—Liquid Shampoo.

Claims use since 1910.

Ser. No. 145,381. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. WM. WINBERG, trading as The Winberg Druggists Supply Co., Wilmette, Ill. Filed Mar. 28, 1921.

Boro-Eucol

Particular description of goods.—Membrane Antiseptic.

Claims use since 1904.

Ser. No. 145,677. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed Apr. 4, 1921. Under section 9 of the act of Mar. 19, 1920.

STEARNS

Particular description of goods.—Laxative Oils; Tonic Laxative for Constipation and Allied Disorders, Laxative Salts, Cough Sirups for Relief of Colds and Affections of the Throat and Lungs; Ointments for Abrasions, Cuts, Burns, and Lacerations; Eye Washes, Corn Removers; Soft Elastic Capsules for Bladder, Kidney, Liver, Rheumatic, and Uric-Acid Troubles; Toothache Plugs, Milk of Magnesia, Liniment for Local Inflammation and Colds.

Claims use since Feb. 3, 1921.

Ser. No. 145,968. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POLK COUNTY PACKING COMPANY, Lakeland, Fla. Filed Apr. 9, 1921.

HIGHLANDS

Particular description of goods.—Oranges and Grapefruit in Their Natural State.
Claims use since Nov. 15, 1920.

Ser. No. 146,004. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. B. FOSTER PACKING CO., INC., Biloxi, Miss. Filed Apr. 11, 1921.

Pedigree

Particular description of goods.—Canned Oysters.
Claims use since Aug. 1, 1916.

Ser. No. 146,005. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. B. FOSTER PACKING CO., INC., Biloxi, Miss. Filed Apr. 11, 1921.

GULF MAID

Particular description of goods.—Canned Shrimp.
Claims use since Aug. 1, 1916.

Ser. No. 146,502. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y. Filed Apr. 21, 1921.

SOLIDO

Particular description of goods.—Malt-Extract Sirup for Food Purposes.
Claims use since Apr. 1, 1921.

Ser. No. 146,927. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) QUAKER CITY CHOCOLATE & CONFECTIONERY COMPANY, Philadelphia, Pa. Filed Apr. 28, 1921.

Top Notchers

Particular description of goods.—Candy.
Claims use since 1906.

Ser. No. 147,435. (CLASS 39. CLOTHING.) LAUERMAN BROTHERS COMPANY, Marinette, Wis. Filed May 9, 1921.

UNITED MILLS LBCo

Particular description of goods.—Knitted Underwear for Men, Women, and Children, and Hosiery.
Claims use since Apr. 1, 1918.

Ser. No. 147,990. (CLASS 32. FURNITURE AND UPHOLSTERY.) JOHN H. RICHARDS, Omaha, Nebr. Filed May 20, 1921.

COLLAPSTEEL

Particular description of goods.—Folding Cots, Tables, and Chairs for Outdoor Use.
Claims use since Mar. 15, 1921.

Ser. No. 148,437. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FLANNERY BOLT COMPANY, Wilmington, Del., and Pittsburgh, Pa. Filed May 31, 1921.

FBC

Particular description of goods.—Boiler Stay Bolts; Track, Frog, and Switch Bolts and Nuts, and Semirigid and Flexible Stay Bolts.
Claims use since February, 1919.

Ser. No. 148,555. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) REMINGTON ARMS COMPANY, INC., Bridgeport, Conn., Ilion, N. Y., Swanton, Vt., and New York, N. Y. Filed June 2, 1921. Under section 9 of the act of Mar. 19, 1920.

Remington

Particular description of goods.—Cash Registers and Parts Thereof.
Claims use since Mar. 30, 1921.

Ser. No. 148,556. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) REMINGTON ARMS COMPANY, INC., Bridgeport, Conn., Ilion, N. Y., Swanton, Vt., and New York, N. Y. Filed June 2, 1921. Under section 9 of the act of Mar. 19, 1920.

REMINGTON

Particular description of goods.—Cash Registers and Parts Thereof.
Claims use since Mar. 30, 1921.

Ser. No. 148,645. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CELL-U-BASE CORPORATION, Dover, Del. Filed June 4, 1921.



Particular description of goods.—Cleansing Preparations for the Teeth.
Claims use since Mar. 10, 1921.

Ser. No. 148,750. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NEWEY BROS. LTD., Birmingham, England. Filed June 6, 1921.

SPRINGBOK

Particular description of goods.—Hairpins.
Claims use since May 7, 1903.

Ser. No. 149,608. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y. Filed June 24, 1921.



Particular description of goods.—Pumping Machinery, Pumps, Apparatus for Raising and Forcing Liquids, Air Lift Pumps, Hydraulic Machinery, Water Turbines, Steam Engines, Steam Turbines, Boiler-Feed-Water Apparatus, Internal-Combustion Engines, Tractors, Compressors, Blowers, Ejectors, Metal Pump, Compressor, and Engine Valves; Exhaust Relief Valves and Automatic By-Pass and Check Valves Used as Parts of Steam Engine or Similar Plants; Condensing Apparatus, Evaporating Apparatus, Cooling Towers, Vacuum Breakers, Accumulators, Oil Separators, Gas Producers, Gas Expanders, Mining and Smelting Machinery, Converters, Sampling Apparatus, Chlorination Apparatus, Amalgamating Apparatus, Cyaniding Apparatus; Expressing Presses, Crushing and Grinding Machinery, Crushers, Stamp Mills, Huntington Mills, Chilean Mills, Ball and Tube Mills, Log Washers, Corn and Cob Mills, Mixers, Sifters, Cement-Making Apparatus, Sawing Apparatus, Rotary Driers, Wood-Preserving Apparatus, Power-Transmission Apparatus, Elevators and Hoists, Pump Jacks, Wire Straighteners.
Claims use since 1885.

Ser. No. 150,861. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM HAEFELI, doing business as Haefeli Drug Co., New York, N. Y. Filed July 23, 1921.

RHEUM-O-RUB

Trade-mark "Rheum-O-Rub."
Particular description of goods.—Salve for the Treatment of Muscular and Inflammatory Rheumatism.
Claims use since June 15, 1921.

Ser. No. 151,302. (CLASS 39. CLOTHING.) WOZNIAK & COMPANY, Chicago, Ill. Filed Aug. 2, 1921.

Boulevard Brand Clothes

No claim to the words "Brand Clothes" apart from the mark.
Particular description of goods.—Men's, Young Men's, and Boys' Outer Garments—Namely, Suits, Overcoats, Spring Coats, and Raincoats.
Claims use since May 1, 1921.

Ser. No. 151,755. (CLASS 39. CLOTHING.) COOKEVILLE OVERALL MFG. CO., Cookeville, Tenn. Filed Aug. 13, 1921.

BLUE DIAMOND

Particular description of goods.—Men's and Boys' Outing or Work Shirts, Overalls, Overcoats, and Suits.
Claims use since June 1, 1921.

Ser. No. 151,966. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM HARCOURT VALIANT, Newark, N. J. Filed Aug. 19, 1921.

SURE-E-Z

SURE-E-Z

The letters in trade-mark are printed in red.
Particular description of goods.—Treated Dust Cloths.
Claims use since June, 1919.

Ser. No. 152,035. (CLASS 39. CLOTHING.) QUALITY CORSET COMPANY, INC., New York, N. Y. Filed Aug. 22, 1921.

Fashioniere

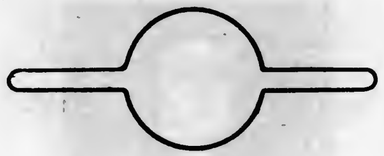
Particular description of goods.—Corsets.
Claims use since July 15, 1921.

Ser. No. 152,078. (CLASS 39. CLOTHING.) LURIE MANUFACTURING CO., Chicago, Ill. Filed Aug. 23, 1921.

GOLD SEAL LMC

Particular description of goods.—Overalls, Shirts, Including Dress, Negligee, Work, and Undershirts, and Pants.
Claims use since May 1, 1921.

Ser. No. 152,122. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Aug. 24, 1921.



Particular description of goods.—Sensitized Film.
Claims use since February, 1920.

Ser. No. 152,316. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CARTOONIGRAMS, INC., St. Paul, Minn. Filed Aug. 29, 1921.



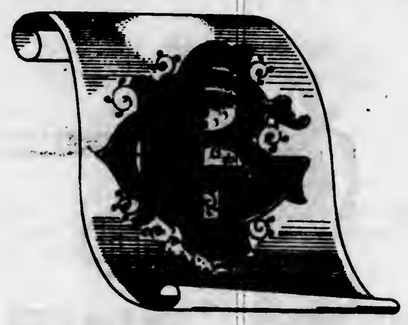
Particular description of goods.—Moving-Picture Films.
Claims use since July 25, 1921.

Ser. No. 152,419. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAMPION TOOL COMPANY, Meadville, Pa. Filed Aug. 31, 1921.



Particular description of goods.—Farriers' Tools—Namely, Hammers, Nippers, Hoof Parers, Hoof Shears, Pincers, Farriers' Knives, Hardies, Pritchels, Buffers, Toe Knives, and Tongs; Blacksmith Tools — Namely, Anvil Tools, Tongs, Hand Hammers, Nippers, and Pincers, Wrenches; Hammers—Namely, Machinists', Carpenters', Cobblers', and Riveting; Clippers, Cutters Having Handle Eyes, Hand Punches, and Cobblers' Tools—Namely, Hammers, Nippers, and Pincers.
Claims use since 1893.

Ser. No. 152,467. (CLASS 39. CLOTHING.) THE G. B. G. MFG. CO. INC., New York, N. Y. Filed Sept. 1, 1921.



Particular description of goods.—Ladies' and Misses' Coats and Suits.
Claims use since Dec. 1, 1911.

Ser. No. 152,904. (CLASS 37. PAPER AND STATIONERY.) U-FILE-M BINDER MFG. COMPANY, Syracuse, N. Y. Filed Sept. 13, 1921.



No claim is made to the word "Binder" apart from the mark shown in the drawing.
Particular description of goods.—Loose-Leaf Binders.
Claims use since Sept. 30, 1913.

Ser. No. 152,912. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CUDAHY PACKING COMPANY, Chicago, Ill. Filed Sept. 14, 1921.

KNOXALL

Particular description of goods.—Soap.
Claims use since December, 1903.

Ser. No. 153,476. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BESSIE M. SPENCER, New York, N. Y. Filed Sept. 28, 1921.

GOLDEN GUARANTEED ROD RICH CHEESE CREAMY STICKS STRAWS

The right to the words "Guaranteed Rich Creamy Straws", and "Cheese Sticks" is disclaimed except when used in the manner disclosed.
Particular description of goods.—Cheese Sticks Made of Pastry or Dough Material and Cheese.
Claims use since June 9, 1921.

Ser. No. 153,765. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINUTE TAPIOCA COMPANY, Orange, Mass. Filed Oct. 5, 1921. Under section 9 of the act of Mar. 19, 1920.



No claim to exclusive right to the word "Tapioca" except as associated with other features of the mark shown. The horizontal lining in drawing represents solid blue.
Particular description of goods.—Prepared Tapioca and Tapioca Puddings.
Claims use since Apr. 1, 1894.

Ser. No. 153,766. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINUTE TAPIOCA COMPANY, Orange, Mass. Filed Oct. 5, 1921.



No claim to the exclusive right to the word "Gelatin" except as associated with other features of the mark shown. The horizontal lining in drawing represents solid blue.
Particular description of goods.—Prepared Gelatin.
Claims use since Jan. 1, 1895.

Ser. No. 154,121. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLLINS-HENCKE CANDY CO., San Francisco, Calif. Filed Oct. 15, 1921.

GOOD'N PLENTY

Particular description of goods.—Candy.
Claims use since Apr. 29, 1921.

Ser. No. 154,309. (CLASS 39. CLOTHING.) GUTHRIE & CO. LIMITED, Singapore, Straits Settlements, and London, England. Filed Oct. 19, 1921.



Particular description of goods.—Coats, Suits, Underwear of Knitted or Textile Fabric, Hosiery, Necktles, Dress Shirts, Negligee Shirts, Work Shirts, Undershirts, Nightgowns, and Pyjamas, All of the Foregoing Articles Comprising Apparel for Men, Women, and Children.
Claims use since Feb. 12, 1920.

Ser. No. 154,418. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALMER CANDY CO., Sioux City, Iowa. Filed Oct. 21, 1921.



Particular description of goods.—Candy.
Claims use since October, 1914.

Ser. No. 154,482. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMANDER MILL COMPANY, Minneapolis, Minn. Filed Oct. 24, 1921.

CONQUEROR

Particular description of goods.—Wheat Flour.
Claims use since about Jan. 1, 1898.

Ser. No. 154,772. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED CIGAR STORES COMPANY OF AMERICA, Jersey City, N. J., and New York, N. Y. Filed Oct. 29, 1921.

Old Fashion
Presidential Chocolates

No claim of right to exclusive use of the word "Chocolate" is made except as shown in accompanying drawing.
Particular description of goods—Candy and Chocolate.
Claims use since Oct. 10, 1921.

Ser. No. 155,160. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. B. CAMORS & COMPANY INC., New Orleans, La. Filed Nov. 8, 1921.



Particular description of goods.—Wheat Flour.
Claims use since Aug. 4, 1915.

Ser. No. 155,259. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WESTERN MILLING COMPANY, Los Angeles, Calif. Filed Nov. 10, 1921.

TRES PIEDRAS

Particular description of goods.—Wheat Flour.
Claims use since Oct. 1, 1921.

Ser. No. 155,313. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIPMAN WOLFE & Co., Portland, Oreg. Filed Nov. 12, 1921.

RUE DE LA PAIX

Particular description of goods.—Chocolates.
Claims use since 1919.

Ser. No. 155,314. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIPMAN WOLFE & Co., Portland, Oreg. Filed Nov. 12, 1921.

EPHEMERE

Particular description of goods.—Chocolates.
Claims use since 1920.

Ser. No. 155,343. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GIMBAL BROTHERS, San Francisco, Calif. Filed Nov. 14, 1921.

Golden City

Particular description of goods.—Candy.
Claims use since Oct. 3, 1921.

Ser. No. 155,469. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALLEGRETTI CHOCOLATE CREAM Co., Chicago, Ill. Filed Nov. 17, 1921.

FINE ARTS

Particular description of goods.—One, Two, Three, and Five Pound Boxes of Assorted Chocolates.
Claims use since Oct. 1, 1921.

Ser. No. 155,470. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUNT MOLLY'S KITCHEN, Muskegon, Mich. Filed Nov. 17, 1921.

Aunt Molly's

Particular description of goods.—Chocolate Candy and Candied Confections.
Claims use since Mar. 1, 1921.

Ser. No. 155,489. (CLASS 39. CLOTHING.) WILLIAM L. DEMING, doing business as Standard Specialty Company, Salem, Ohio. Filed Nov. 17, 1921.

SOXON

Particular description of goods.—Hose Supporters.
Claims use since Oct. 28, 1921.

Ser. No. 155,622. (CLASS 39. CLOTHING.) KNOTHE BROTHERS CO. INC., New York, N. Y. Filed Nov. 19, 1921.

THE BACHELOR

Particular description of goods.—Pyjamas.
Claims use since Nov. 2, 1921.

Ser. No. 155,730. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALPHA-LUX COMPANY, INC., New York, N. Y. Filed Nov. 22, 1921.

"ALPHA"

Particular description of goods.—Rennet Extract, Rennet Powder, Rennet Tablets, and Junket Tablets.
Claims use since June, 1920.

Ser. No. 156,023. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SIGNODE SYSTEM, INC., Chicago, Ill. Filed Nov. 28, 1921.



Particular description of goods.—Materials for Strapping Boxes or the Like, Consisting of Metallic Box Strapping and Box-Strapping Seals.
Claims use since Nov. 10, 1920.

Ser. No. 156,124. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Nov. 30, 1921.

VITA-MILK

Particular description of goods.—Bread.
Claims use since Nov. 9, 1921.

Ser. No. 156,194. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LINDEN PHARMACAL COMPANY, Norfolk, Va. Filed Dec. 2, 1921.

ELCOLAX

Particular description of goods.—Medicines for the Treatment of Colds, Coughs, and La Grippe.
Claims use since Jan. 1, 1921.

Ser. No. 156,508. (CLASS 39. CLOTHING.) J. & M. WOLF, INC., New York, N. Y. Filed Dec. 9, 1921.

MERIT

Particular description of goods.—Knit Underwear and Sweaters.
Claims use since 1908.

Ser. No. 156,634. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE JULIAN PUMP & MANUFACTURING COMPANY, Jamestown, N. Y. Filed Dec. 13, 1921.

SQUARE-DEAL

Particular description of goods.—Self Measuring and Dispensing Pumps.
Claims use since July 29, 1921.

Ser. No. 157,161½. (CLASS 39. CLOTHING.) THE ROTH SHOE MANUFACTURING COMPANY, Cincinnati, Ohio. Filed Dec. 27, 1921.

B.W. BUSINESS WOMAN

COMBINATION LAST

No claim to words "Business Woman" and "Combination Last" except in the form and association shown in the drawing.
Particular description of goods.—Women's Boots and Shoes Made of Leather, Fabric, Rubber, or Combination of Each.
Claims use since Aug. 1, 1921.

Ser. No. 157,359. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DANIELS AND FISHER STORES COMPANY, Denver, Colo. Filed Dec. 31, 1921.

Marie Louise



The portrait is fanciful.
Particular Description of goods.—Cold Cream, Lemon Beauty Cream, Tissue Cream, Vanishing Cream, Bleaching Cream, Astringent Mask, Skin Tonic, Face Powder, Cuticle Oil, Lip Sticks, Eyebrow Pencils, Bath Salts, Hand Lotion, Henna Rinse, Hair Tonic Perfume, Sachet, Face Astringent and Bleach, Muscle Oil, Eucalyptus Ointment, Tar Hair Tonic, Depilatory, Brilliantine, Liquid Lip Rouge.
Claims use since November, 1919.

Ser. No. 157,363. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FORBES TUBULAR PRODUCTS CORPORATION, Ramapo, N. Y. Filed Dec. 31, 1921.

TUBEX

Particular description of goods.—Metallic Tubing.
Claims use since on or about Mar. 1, 1921.

Ser. No. 157,377. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARCHIONY BROTHERS, INC., New York, N. Y. Filed Dec. 31, 1921.

SPUMONI

Particular description of goods.—Ice Cream, Flavored Ice, Ice-Cream Bricks, Ice-Cream Cones, and Ice-Cream Sandwiches.
Claims use since June, 1920.

Ser. No. 157,470. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ABRAHAM AND STRAUS, INC., Brooklyn, N. Y. Filed Jan. 4, 1922.

MOCARO

Particular description of goods.—Coffee.
Claims use since about Nov. 1, 1921.

Ser. No. 157,538. (CLASS 38. PRINTS AND PUBLICATIONS.) STEVENS & WALLIS, (INCORPORATED,) Salt Lake City, Utah. Filed Jan. 5, 1922.

Bullseye

Particular description of goods.—House Organs.
Claims use since about June 1, 1921.

Ser. No. 157,546. (CLASS 39. CLOTHING.) THE SAMUEL ACH CO., INC., Cincinnati, Ohio. Filed Jan. 6, 1922.

KNI-KER-KAP

The exclusive use of the word "Kap" is disclaimed apart from the mark shown.
Particular description of goods.—Caps and Hoods.
Claims use since Sept. 1, 1921.

Ser. No. 157,559. (CLASS 39. CLOTHING.) DRIESEN, MEYER & ORONSKY, New York, N. Y. Filed Jan. 6, 1922.

Dee Mo

Particular description of goods.—Outer Suits for Males.
Claims use since Oct. 19, 1921.

Ser. No. 157,606. (CLASS 39. CLOTHING.) FELDMAN & WEINMAN, Baltimore, Md. Filed Jan. 7, 1922.

BIG TOM

Particular description of goods.—Work Shirts.
Claims use since October, 1919.

Ser. No. 157,607. (CLASS 39. CLOTHING.) FELDMAN & WEINMAN, Baltimore, Md. Filed Jan. 7, 1922.

BLUE RIBBON

Particular description of goods.—Work Shirts.
Claims use since October, 1919.

Ser. No. 157,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SCOTLAND CO-OPERATIVE CANTALOUPE EXCHANGE, Laurinburg, N. C. Filed Jan. 7, 1922.

MELROSE

Particular description of goods.—Fresh Cantaloupes.
Claims use since July 1, 1921.

Ser. No. 157,676. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARKEM MACHINE CO., Boston, Mass. Filed Jan. 9, 1922.

MARKEM

Particular description of goods.—Marking Machines.
Claims use since June 15, 1921.

Ser. No. 157,713. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRACE DARLING CANDY SHOP, INC., Minneapolis, Minn. Filed Jan. 10, 1922.







Particular description of goods.—Candy.
Claims use since on or about Oct. 15, 1921.

Ser. No. 157,779. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STEEL PRODUCTS MANUFACTURING COMPANY, Racine, Wis. Filed Jan. 11, 1922.

Pyromite

Particular description of goods.—Valves for Gas Engines and Parts Thereof.
Claims use since Dec. 1, 1921.

Ser. No. 157,824. (CLASS 39. CLOTHING.) THE B. V. D. COMPANY, Baltimore, Md. Filed Jan. 12, 1922.

B.V.D.

Particular description of goods.—Underwear of Woven and Knitted Fabrics, as Follows: Shirts, Drawers, and Union Suits, Worn by Men, Women, and Children.
Claims use since Sept. 1, 1876.

Ser. No. 157,851. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. SHULL, doing business as The Velvetta Mfg. Co., Philadelphia, Pa. Filed Jan. 12, 1922.



No claim is made to the representation of the can apart from the mark shown. The trade-mark is displayed on a green label, the words "What is it?" being printed in black and the word "Insectine" and the representation of the can being white, while the representation of the insects on the can are displayed in green.
Particular description of goods.—Insecticide.
Claims use since 1903.

Ser. No. 157,900. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE D. L. PAGE, INC., Boston, Mass. Filed Jan. 13, 1922.



Particular description of goods.—Candy.
Claims use since Dec. 12, 1921.

Ser. No. 157,909. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES BRUNO, Brooklyn, N. Y. Filed Jan. 14, 1922.

BABY-BRUNO



The picture of child is fanciful.
Particular description of goods.—Fresh Grapes.
Claims use since Sept. 12, 1921.

Ser. No. 157,999. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPHINE KOSTITCH, Denver, Colo. Filed Jan. 16, 1922.



All wording appearing on drawing excepting "Eureka" is disclaimed apart from mark shown. The portrait on drawing is fanciful.
Particular description of goods.—Lotion or Cream for the Skin.
Claims use since Dec. 31, 1880.

Ser. No. 158,067. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WESTERN ELECTRIC COMPANY, INC., New York, N. Y. Filed Jan. 17, 1922.

Western Electric

Particular description of goods.—Electrical Circuit and Apparatus Testing Cabinets, Current Meters, Hydrometers, Ionization Monometers, Oscillographs, Gauges for Testing Electrical Circuits and Apparatus, Test Boards for Electrical Circuits and Apparatus, and Telephone-Message Registers.
Claims use since January, 1910.

Ser. No. 158,194. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM RUPP, Newark, N. J., assignor to Sugola Company of New Jersey, Inc., Orange, N. J., a Corporation of New Jersey. Filed Jan. 20, 1922.

EX-O-MALT

Trade-mark "Ex-O-Malt."
Particular description of goods.—Bakers' Malt Sirup for Food Purposes.
Claims use since Dec. 20, 1921.

Ser. No. 158,214. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BOSTON MOLASSES COMPANY, Boston, Mass. Filed Jan. 21, 1922.



No claim is made to the words "A Product" apart from the trade-mark as shown.
Particular description of goods.—Molasses.
Claims use since Jan. 1, 1922.

Ser. No. 158,215. (CLASS 39. CLOTHING.) J. H. BLAETZ, Philadelphia, Pa. Filed Jan. 21, 1922.

LAMBKIN
BABY HOSE

No claim to use of words "Baby Hose" except as associated with the other features of the mark.
Particular description of goods.—Hosiery.
Claims use since Mar. 10, 1919.

Ser. No. 158,216. (CLASS 39. CLOTHING.) JACOB H. BLAETZ, Philadelphia, Pa. Filed Jan. 21, 1922.

AMERICAN BABY HOSE

No claim to exclusive use of the word "Hose" except as associated with the other features of the mark.
Particular description of goods.—Hosiery.
Claims use since Dec. 15, 1918.

Ser. No. 158,240. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MITCHELL-BISSELL COMPANY, New York, N. Y. Filed Jan. 21, 1922.

ADAMANT

Particular description of goods.—Porcelain Trimmings for Plumbing Fixtures, Consisting of Straight Handles, Cross Handles, Index Buttons, Escutcheons, Flanges, Wall Plates, and Waste Knobs.
Claims use since Dec. 21, 1921.

Ser. No. 158,383. (CLASS 39. CLOTHING.) DAVID LIEBERMAN & Co., New York, N. Y. Filed Jan. 24, 1922.

Delco

Particular description of goods.—Men's Dress, Negligee, and Work Shirts.
Claims use since Mar. 1, 1918.

Ser. No. 158,496. (CLASS 39. CLOTHING.) JOHN R. WALRATH, Gloversville, N. Y. Filed Jan. 26, 1922.

WILLOWOVEN

No claim made to word "Woven" apart from the mark shown.
Particular description of goods.—Fabric Gloves.
Claims use since Dec. 1, 1921.

Ser. No. 158,544. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIGNODE SYSTEM, INC., Chicago, Ill. Filed Jan. 27, 1922.

LOOP-THE-LOOP

Particular description of goods.—Tools for Applying Bale Ties.
Claims use since Jan. 14, 1922.

Ser. No. 158,551. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AUTOMOTIVE PRODUCTS CORPORATION, Hazleton, Pa. Filed Jan. 28, 1922.



The representation of a piston pin and the words "Super Quality Piston Pins" are hereby disclaimed except in combination with the mark shown.
Particular description of goods.—Pistons and Wrist Pins.
Claims use since Jan. 1, 1922.

Ser. No. 158,770. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GAINESVILLE POTATO GROWERS CO-OPERATIVE ASSOCIATION, INC., Gainesville, N. Y. Filed Feb. 2, 1922.

GAINESVILLE GPG BRAND

No claim is made to the geographical name or term "Gainesville" and the descriptive word "Brand" apart from the mark shown.
Particular description of goods.—Fresh Potatoes.
Claims use since Oct. 1, 1921.

Ser. No. 158,806. (CLASS 39. CLOTHING.) TROY UNDERWEAR CO. INC., Troy, N. Y. Filed Feb. 2, 1922.

SILTUCO

Particular description of goods.—Undershirts, Drawers, and Union Suits Made of Knitted Fabric and Textile Fabric for Men, Women, and Children.
Claims use since Aug. 1, 1921.

Ser. No. 158,840. (CLASS 39. CLOTHING.) TRIPLE P. MANUFACTURING CORPORATION, New York, N. Y. Filed Feb. 3, 1922.

PPP Triple P

Particular description of goods.—Children's Drawers-Supporting Waists.
Claims use since about Dec. 1, 1921.

Ser. No. 158,928. (CLASS 39. CLOTHING.) IVY CORSET COMPANY, Worcester, Mass. Filed Feb. 6, 1922.



Particular description of goods.—Ladies' Underwear, Consisting of Bloomers, Knickerbockers, Undervests of Knitted or Woven Fabrics.
Claims use since about September, 1919.

Ser. No. 158,955. (CLASS 39. CLOTHING.) UNITED HAT & CAP CO., Chicago, Ill. Filed Feb. 6, 1922.

THE KID

Particular description of goods.—Children's Caps.
Claims use since Feb. 2, 1922.

Ser. No. 158,978. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GENERAL DENTAL COMPANY, Columbus, Ohio. Filed Feb. 7, 1922.

PYROL

Particular description of goods.—Preparation for the Prevention and Treatment of Pyorrhea, Tonsilitis, Sore Throat, and Influenza.
Claims use since Mar. 1, 1921.

Ser. No. 159,026. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES HERSTEIN, Los Angeles, Calif. Filed Feb. 8, 1922.

YEASTARETS

Particular description of goods.—A Yeast Compound for Use as a General Tonic.
Claims use since Jan. 28, 1922.

Ser. No. 159,060. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SCHOLL MANUFACTURING COMPANY, Chicago, Ill. Filed Feb. 8, 1922.

Zino-Pads

No claim is made to the word "Pads" except in the relation shown.
Particular description of goods.—Adhesive Medicated Shields or Pads for Corns, Callouses, and Bunions.
Claims use since June 16, 1921.

Ser. No. 159,076. (CLASS 39. CLOTHING.) BROWN-PHELPS HOSIERY COMPANY, Philadelphia, Pa. Filed Feb. 9, 1922.



No claim is made to the exclusive use of the word "Heel" apart from the mark shown in the drawing.
Particular description of goods.—Hosiery.
Claims use since about Jan. 1, 1922.

Ser. No. 159,090. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE T. HAINES, Omaha, Nebr. Filed Feb. 9, 1922.

POLAR

Particular description of goods.—Ice-Cream Chocolate Confections.
Claims use since Jan. 25, 1922.

Ser. No. 159,179. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REID ICE CREAM COMPANY, Brooklyn, N. Y. Filed Feb. 10, 1922.

GLACIER

Particular description of goods.—Ice Cream.
Claims use since Feb. 1, 1922.

Ser. No. 159,315. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HO-RO-CO MANUFACTURING COMPANY, St. Louis, Mo. Filed Feb. 14, 1922.

HoRoCo

Particular description of goods.—Food-Flavoring Extracts (Alcoholic), Food-Flavoring Extracts (Nonalcoholic), Spices, Tea, and Cocoa.
Claims use since about June 1, 1914.

Ser. No. 159,361. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. P. HOOD & SONS, INC., Boston, Mass. Filed Feb. 15, 1922.

Glaciers

Trade-mark "Glaciers."
Particular description of goods.—Coated Frozen Confections.
Claims use since Jan. 19, 1922.

Ser. No. 159,388. (CLASS 39. CLOTHING.) STROUSE, ADLER & CO., New Haven, Conn. Filed Feb. 15, 1922.

KIDDIE KORSET

No claim made to word "Korset" apart from the mark shown.
Particular description of goods.—Corsets.
Claims use since Feb. 3, 1922.

Ser. No. 159,398. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE AMERICAN BUCKLE COMPANY, West Haven, Conn. Filed Feb. 16, 1922.

YANKEE LOOP

No claim to the word "Loop" apart from mark.
Particular description of goods.—Wire Overall Loops.
Claims use since Sept. 2, 1910.

Ser. No. 159,406. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILFRID I. BOOTH, Elmira, N. Y. Filed Feb. 16, 1922.

BILLY

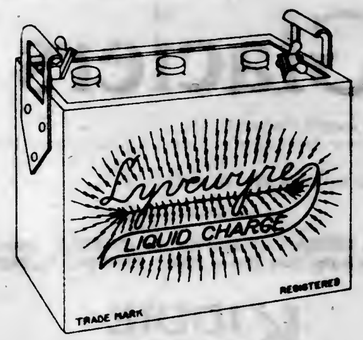
Trade-mark "Billy."
Particular description of goods.—Candy.
Claims use since prior to 1910.

Ser. No. 159,519½. (CLASS 38. PRINTS AND PUBLICATIONS.) KANSAS LIVE STOCK ASSOCIATION, Topeka, Kans. Filed Feb. 18, 1922.

The Kansas STOCKMAN

Particular description of goods.—Semimonthly Periodical.
Claims use since 1918.

Ser. No. 159,602. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LYVERWYRE COMPANY, Washington, D. C., and Vidalia, Ga. Filed Feb. 20, 1922.



No claim is made to the words "Liquid Charge" and "Trade Mark Registered."
Particular description of goods.—Liquid Charge for Storage Batteries.
Claims use since Jan. 5, 1922.

Ser. No. 159,622. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK WEBB BROOKS, Toronto, Ontario, Canada. Filed Feb. 23, 1922.

"HUSH"

Trade-mark "Hush."
Particular description of goods.—Breath Perfume.
Claims use since May 8, 1919.

Ser. No. 159,689. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL L. BOUSQUET, doing business as Fruit-ol-ets Laboratories, Dayton, Ohio. Filed Feb. 23, 1922.

Fruit-ol-ets

Particular description of goods.—A Stomach, Bowel, and Liver Tonic.
Claims use since Jan. 10, 1922.

Ser. No. 159,690. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BARR-NUNN COMPANY, Massillon, Ohio. Filed Feb. 23, 1922.

BAR-NUNS

Particular description of goods.—A General Tonic in Tablet Form.
Claims use since Jan. 4, 1922.

Ser. No. 159,691. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE B. & P. COMPANY, Cleveland, Ohio. Filed Feb. 23, 1922.

DEODO

In the drawing the lining on the surface of the letters is shading and is not intended as a conventional representation of color.
Particular description of goods.—Preparation for Preventing Perspiration and for Removing the Odor Thereof.
Claims use since about Jan. 27, 1922.

Ser. No. 159,712. (CLASS 39. CLOTHING.) THE LITTLE GIANT SHOE CO., Chicago, Ill. Filed Feb. 23, 1922.



Particular description of goods.—Leather Shoes.
Claims use since Jan. 3, 1922.

Ser. No. 159,713. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAIGNEN CHEMICAL COMPANY, Kansas City, Mo. Filed Feb. 23, 1922.

LAWEX

The cross-hatching lines in the letters of the drawing represent shading only.
Particular description of goods.—Compound for Treatment of the Mucous Membrane.
Claims use since Jan. 12, 1922.

Ser. No. 159,726. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHAEL F. SMITH, doing business as Victory Manufacturing Co., Boston, Mass. Filed Feb. 23, 1922.

Victory

Particular description of goods.—Hair Grower and Hair Tonic.
Claims use since about Feb. 13, 1922.

Ser. No. 159,805. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., New York, N. Y. Filed Feb. 25, 1922.

SPIRAL SPUN

No claim is made to word "Spun" apart from mark shown in drawing.
Particular description of goods.—Silk Goods in the Piece.
Claims use since Nov. 30, 1917.

Ser. No. 159,877. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MELSON, CLIFFORD & CO. LIMITED, London, England. Filed Feb. 27, 1922.

MELSO

Particular description of goods.—Artificial-Silk Fabrics in the Piece Made from Wood Pulp or Cellulose Acetate.
Claims use since June 1, 1921.

Ser. No. 160,103. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN ADAMS BOLTON, trading as The Chilprufe Manufacturing Company, Leicester, England. Filed Mar. 3, 1922.

CHILPRUFE

Trade-mark consists of word "Chilprufe."
Particular description of goods.—Woolen Fabrics.
Claims use since 1908.

Ser. No. 160,112. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CROWTH & REED CO., Chicago, Ill. Filed Mar. 3, 1922.

TEMPTATION

Particular description of goods—Toilet Soaps.
Claims use since September, 1921.

Ser. No. 160,186. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. W. GODDARD & SONS, INCORPORATED, New York, N. Y. Filed Mar. 4, 1922.

SEA-KRET

Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 26, 1922.

Ser. No. 160,253. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PARISTYLE NOVELTY CO. INC., New York, N. Y. Filed Mar. 6, 1922.

Rosemary

Particular description of goods.—Hair Nets.
Claims use since about May 1, 1911.

Ser. No. 160,293. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MALL DUNN MEDICINE COMPANY, Boston, Mass. Filed Mar. 7, 1922.



All words in drawing are disclaimed with exception of the words "Mall-Dunn."
Particular description of goods.—Medicinal Preparation for Internal and External Use for the Relief of Pain, to be Used Internally for Cramps, Nausea, Diarrhea, Cholera Morbus, Dysentery, and Chills Due to Exposure, and to be Used Externally for Bites of Insects; Colds, Chest Conditions, Chilblains, Earache, Frostbites, Hoarseness, Lameness, Lumbago, Sore Back, Sciatica, Spinal Trouble, Neuralgia, Tic Douloureux, Neuritis, Pain in Joints, Rheumatism, Sprains, Strains, Stiff Neck, Wry Neck, Sore Throat, Tonsilitis, Laryngitis, Tight Chest, Bronchitis, Wheezing, Pleurisy, Stitch in the Side, Cough, Severe Sore Throat, Stiff and Sore Muscles, and Toothache.
Claims use since May 16, 1918.

Ser. No. 160,304. (CLASS 39. CLOTHING.) THE SELBY SHOE CO., Portsmouth, Ohio. Filed Mar. 7, 1922.

CHUMMY-KICKS

Particular description of goods.—Leather and Canvas Boots and Shoes.
Claims use since Jan. 1, 1922.

Ser. No. 160,480. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BULL DOG FLOOR CLIP COMPANY, Winterset, Iowa. Filed Mar. 10, 1922.

BULL DOG

Particular description of goods.—Floor Clips for Fastening Wooden Floors or the Like to a Concrete Construction.
Claims use since Feb. 8, 1921.

Ser. No. 160,502. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE NARROW FABRIC CO., West Reading, Pa. Filed Mar. 10, 1922.

TATRIM

Particular description of goods.—Woven and Braided Trimmings.
Claims use since Feb. 15, 1921.

Ser. No. 160,600. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BO-PEEP CORPORATION, Chicago, Ill. Filed Mar. 15, 1922.



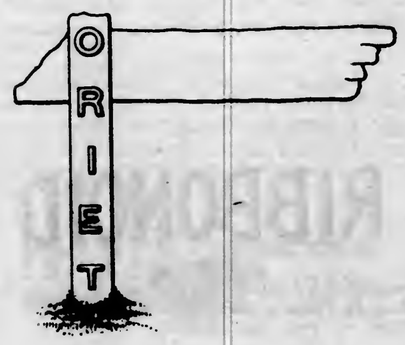
The vertical lines in drawing represent shading.
Particular description of goods.—Pharmaceutical Preparations.
Claims use since July 19, 1920.

Ser. No. 160,796. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DAVIS-SMITH COMPANY, Boston, Mass. Filed Mar. 17, 1922.

Qualo-gravure

Trade-mark "Qualo-gravure."
Particular description of goods.—Christmas Cards, Birthday Cards, Easter Cards, and New Year's Cards, Motto Cards, Cards Bearing Words Expressing Some Sentiment, Congratulation Cards, Booklets or Leaflets Bearing Universal Greetings, Cards or Leaflets Bearing the Season's Greetings, Friendship Cards, Invitations and Valentines, Announcements, Business Cards, Invitations, Labels, Removal Cards, Window Display Cards, Menus, Programs, Catalogues, Price Lists, Booklets, and Calendars.
Claims use since Jan. 19, 1922.

Ser. No. 160,798. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAULINE L. DIVBA, doing business as Marvel Specialties Company, New York, N. Y. Filed Mar. 17, 1922.



Particular description of goods.—Hair Pomades.
Claims use since Jan. 7, 1917.

Ser. No. 160,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MALLINCKRODT CHEMICAL WORKS, St. Louis, Mo. Filed Mar. 17, 1922.

ICHTHYMALL

Trade-mark "Ichthymall."
Particular description of goods.—Product Used for the Treatment of Skin Diseases.
Claims use since Jan. 1, 1922.

Ser. No. 160,892. (CLASS 39. CLOTHING.) THE H. W. MERRIAM SHOE COMPANY, Newton, N. J. Filed Mar. 18, 1922.

"CRADLE TO COLLEGE"

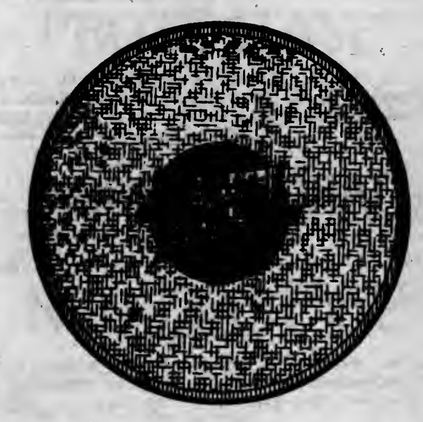
Particular description of goods.—Shoes Made of Leather, Rubber, Fabric, and Combination of the Same.
Claims use since Nov. 19, 1915.

Ser. No. 160,907. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOUTHERN DYESTUFFS COMPANY, Nitro, W. Va., and New York, N. Y. Filed Mar. 18, 1922.

STANDARDIZED SDYCO INTERMEDIATES

No claim being made to the words "Standardized" and "Intermediates" except in connection with the balance of the mark.
Particular description of goods.—Dyestuffs.
Claims use since December, 1921.

Ser. No. 160,914. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ACME WHITE LEAD & COLOR WORKS, Hamtramck, Mich. Filed Mar. 20, 1922.



The trade-mark consists of the representation of a flag bearing the words "Acme Quality" upon a red background, brackets at either side of the flag bearing the words "The" and "Kind," also in red, the two designs being surrounded by a circular field in black with an outer border of red, and the whole being surrounded by a large outer circular field of yellow bordered by smaller concentric circles of red and black respectively. No claim is made to exclusive use of the words "The," "Kind," "Paints," "Enamels," "Stains," and "Varnishes" apart from the mark shown on the drawing.
Particular description of goods.—Insecticides, Fungicides, Disinfectants, Cattle Spray, and Sheep and Cattle Dip.
Claims use since Nov. 21, 1906.

Ser. No. 161,017. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THERMATOMIC CARBON CO., Pittsburgh, Pa. Filed Mar. 21, 1922.

THERMATOMIC

Particular description of goods.—Carbon Black Having a Combination of Uses.
Claims use since about Dec. 1, 1921.

Ser. No. 161,134. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KENILWORTH MFG. CO., Newark, N. J. Filed Mar. 23, 1922.



No claim is made to representation of the label or any wording on drawing except "Eureka" apart from mark shown.
Particular description of goods.—Horn Buttons.
Claims use since Dec. 1, 1921.

Ser. No. 161,155. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) N. & G. TAYLOR CO. INCORPORATED, Philadelphia, Pa. Filed Mar. 23, 1922.

TARGET & ARROW

Particular description of goods.—Ferrous and Non-ferrous Sheet Metal.
Claims use since 1907.

Ser. No. 161,167. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JULIUS BERBECKER & SONS, INC., New York, N. Y. Filed Mar. 24, 1922.



Particular description of goods.—Hand Sewing Needles.
Claims use since on or about Jan. 12, 1922.

Ser. No. 161,206. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE M. SHAFFER COMPANY, Philadelphia, Pa. Filed Mar. 24, 1922.

HY-KOL

Particular description of goods.—Tonic for Scalp and Hair.
Claims use since on or about Mar. 1, 1911.

Ser. No. 161,369. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN F. MICHAEL, doing business as The B. F. Michael Company, Laceyville, Pa. Filed Mar. 28, 1922.

BELLAX

Particular description of goods.—Candy Laxative.
Claims use since Aug. 1, 1921.

Ser. No. 161,402. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN NICKELOID COMPANY, Peru, Ill. Filed Mar. 29, 1922.

RIBBONOID

Particular description of goods.—Sheet Metals Made of Zinc and Nickel or Zinc Plated with Nickel.
Claims use since Mar. 22, 1922.

Ser. No. 161,407. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM S. BARNICKEL & Co., St. Louis, Mo. Filed Mar. 29, 1922.



Trade-mark, "Tretolite."
Particular description of goods.—Chemicals Used in the Treatment of Petroleum Emulsions to Effect the Recovery of the Valuable Oil Content of Such Emulsions.
Claims use since Nov. 21, 1916.

Ser. No. 161,481. ((CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLARENCE VICTOR CHESSMAN, Jr., Kew Gardens, N. Y. Filed Mar. 30, 1922.



Particular description of goods.—Hair Nets.
Claims use since Jan. 1, 1922.

Ser. No. 161,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. KOHNSTAMM & Co. INC., New York, N. Y. Filed Mar. 30, 1922.

ATLAS

Particular description of goods.—Aniline Blues for Laundry Purposes.
Claims use since about 1882.

Ser. No. 161,489. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS LUCAS COMPANY, INC., Jamestown, N. Y. Filed Mar. 30, 1922.



Particular description of goods.—Aromatic Incense.
Claims use since Dec. 1, 1921.

Ser. No. 161,491. (CLASS 39. CLOTHING.) LYNCH HEEL COMPANY, Chelsea, Mass. Filed Mar. 30, 1922.

Ideal

Particular description of goods.—Rubber Heels.
Claims use since January, 1922.

Ser. No. 161,525. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BILHUBER, INCORPORATED, New York, N. Y. Filed Mar. 31, 1922.

AGOCHOLAN

Trade-mark "Agocholan."
Particular description of goods.—Medicinal Preparations for Treatment of Diseases of the Bladder and Gall.
Claims use since Mar. 21, 1922.

Ser. No. 161,562. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISADORE A. MILLER, doing business as Prudent Chemical Co., Los Angeles, Calif. Filed Mar. 31, 1922.

PRUDENT

Particular description of goods.—Antiseptic Mouth Wash, Hair Tonic, and Face Powder.
Claims use since May, 1920.

Ser. No. 161,605. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACQUES WOLF & Co., Passaic, N. J. Filed Mar. 31, 1922.

PROTOSTASE

Particular description of goods.—Remedy for Dyspepsia.
Claims use since Feb. 1, 1922.

Ser. No. 161,606. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACQUES WOLF & Co., Passaic, N. J. Filed Mar. 31, 1922.

NEO-DIASTASE

Particular description of goods.—Remedy for Dyspepsia.
Claims use since Feb. 1, 1922.

Ser. No. 161,618. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, INC., New York, N. Y. Filed Apr. 1, 1922.

FIFTH AVENUE

Particular description of goods.—Perfumes, Toilet Waters, Face Powder, Talcum Powder, Sachet, Cold Cream, Brilliantine, Rouge, and Face Cream.
Claims use since Feb. 14, 1922.

Ser. No. 161,732. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ERNEST & HERMAN LEVY, INC., New York, N. Y. Filed Apr. 4, 1922.



Particular description of goods.—Velvet Ribbon.
Claims use since Dec. 14, 1921.

Ser. No. 161,810. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TOCH BROTHERS, New York, N. Y. Filed Apr. 5, 1922.

Toxidol

Particular description of goods.—Photographic Developers.
Claims use since about Mar. 1, 1920.

Ser. No. 161,827. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FOLLANSBEE BROTHERS COMPANY, Pittsburgh, Pa. Filed Apr. 6, 1922.



No claim to words "Smooth" or "Pittsburgh" apart from the mark.
Particular description of goods.—Ferrous Metal Plates, and Sheets.
Claims use since July 21, 1919.

Ser. No. 161,939. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) VICTOR NEUSTADTL, New York, N. Y. Filed Apr. 8, 1922.

"Gesundheit!"

Particular description of goods.—Malt Extracts and Sirups.
Claims use since about Nov. 1, 1920.

Ser. No. 162,033. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. MILES GRAND DISPENSARY, Elkhart, Ind. Filed Apr. 10, 1922.

PURA-LAXA

Particular description of goods.—Laxative Medicine.
Claims use since June 1, 1902.

Ser. No. 162,069. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. W. SOULE, Barstow, Calif. Filed Apr. 10, 1922.



Particular description of goods.—Remedy for Use in Treatment of Piles.
Claims use since Jan. 1, 1922.

Ser. No. 162,132. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIRROLIKE MFG. CO., Long Island City, N. Y. Filed Apr. 11, 1922.



Particular description of goods.—Disinfectants, Deodorants, and Insecticides.
Claims use since on or about Apr. 1, 1915.

Ser. No. 162,162. (CLASS 25. LOCKS AND SAFES.) DIEBOLD SAFE AND LOCK COMPANY, Canton, Ohio. Filed Apr. 12, 1922. Under ten-year proviso.

DIEBOLD

Particular description of goods.—Filing Safes, Skeleton Safes, Fireproof Safes, Burglarproof Safes, Manganese Safes, Vault Doors, Locks, and Safe-Deposit Boxes.
Claims use since June 25, 1859.

Ser. No. 162,196. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PARAMOUNT AMUSEMENT DEVICE CORP., New York, N. Y. Filed Apr. 12, 1922.



Particular description of goods.—Amusement Device of a Mechanical Pneumatic Type.
Claims use since Nov. 17, 1921.

Ser. No. 162,243. (CLASS 38. PRINTS AND PUBLICATIONS.) CARADINE HARVEST HAT COMPANY, St. Louis, Mo. Filed Apr. 13, 1922.

Good Stuff

Particular description of goods.—Trade Publication Issued Weekly for Circulation Among Sales Men and Buyers.
Claims use since about Jan. 3, 1922.

Ser. No. 162,258. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) JOHN K. KAHOOKANO, Rawlins, Wyo. Filed Apr. 13, 1922.

JAZZ-PIPE

No claim is made to the exclusive use of the term "Pipe" apart from the mark as shown.
Particular description of goods.—Smoking Pipes.
Claims use since about Jan. 1, 1922.

Ser. No. 162,305. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE LETO PHOTO MATERIALS CO. (1905) LTD., London, England. Filed Apr. 14, 1922.

BOARDOID

No claim is made to exclusive use of word "Board" apart from mark shown, which consists of the word "Boardoid."
Particular description of goods.—Photographic Printing Paper.
Claims use since 1906.

Ser. No. 162,378. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CHORE UTENSILS CORPORATION OF AMERICA, Orange, N. J. Filed Apr. 17, 1922.



Particular description of goods.—Scouring Cloths.
Claims use since Nov. 30, 1921.

Ser. No. 162,571. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROSE & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

25

Particular description of goods—Cloth for Making Typewriter Ribbons.
Claims use since Mar. 27, 1912.

Ser. No. 162,572. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROSE & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

36

Particular description of goods.—Cloth for Making Typewriter Ribbons.
Claims use since May 13, 1910.

Ser. No. 162,573. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROSE & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

38

Particular description of goods.—Cloth for Making Typewriter Ribbons.
Claims use since Nov. 5, 1913.

Ser. No. 162,574. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROSE & FRANK CO., New York. Filed Apr. 19, 1922.

44

Particular description of goods.—Cloth for Making Typewriter Ribbons.
Claims use since Sept. 9, 1912.

Ser. No. 162,575. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROSE & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

55

Particular description of goods.—Typewriter Cloth Used for Making Typewriter Ribbons and Multigraph Ribbons.
Claims use since Nov. 5, 1913.

Ser. No. 162,700. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) UNITED STATES FASTENER COMPANY, Portland, Me., and Boston, Mass. Filed Apr. 21, 1922.

RADIO

Particular description of goods.—Snap Fasteners Used on Gloves, Pocketbooks, and Similar Articles.
Claims use since Mar. 1, 1922.

Ser. No. 163,015. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THOMAS & BUSWELL INC., New York, N. Y. Filed Apr. 27, 1922.

NEPTUNE

Particular description of goods.—Hair Nets.
Claims use since Jan. 1, 1922.

Ser. No. 163,133. (CLASS 37. PAPER AND STATIONERY.) BAYLESS MANUFACTURING CORPORATION, Austin, Pa. Filed May 1, 1922.

RED CAP FIBRE

No claim is made to the word "Fibre" apart from mark shown in drawing.
Particular description of goods.—Water-Finish Fiber Paper.
Claims use since Mar. 18, 1922.

Ser. No. 163,241. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNITED FRUIT COMPANY, Boston, Mass. Filed May 2, 1922.



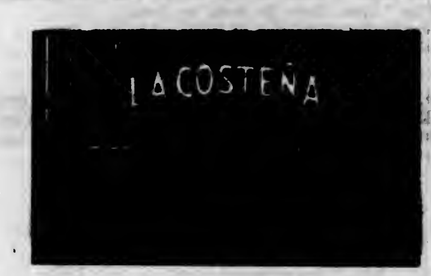
The drawing is lined to show the colors yellow and blue, which are the ones usually used.
Particular description of goods.—Soap—Namely, Common Soap, Laundry Soap, Toilet Soap, and Bar Soap.
Claims use since Apr. 19, 1922.

Ser. No. 163,244. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNITED FRUIT COMPANY, Boston, Mass. Filed May 2, 1922.



The drawing is lined to show the colors yellow and brown, which are the ones usually used.
Particular description of goods.—Soap, Common Soap, Laundry Soap, Toilet Soap, and Bar Soap.
Claims use since Apr. 19, 1922.

Ser. No. 163,246. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNITED FRUIT COMPANY, Boston, Mass. Filed May 2, 1922.



The drawing is lined to show the colors red and blue, which are usually used.
Particular description of goods.—Soap, Common Soap, Laundry Soap, Toilet Soap, and Bar Soap.
Claims use since Apr. 19, 1922.

Ser. No. 163,253. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BANNER SILK KNITTING MILLS, INC., New York, N. Y. Filed May 3, 1922.

VIOLA-KNIT

Particular description of goods.—Knitted Silk Fabrics.
Claims use since Apr. 10, 1922.

Ser. No. 163,255. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BANNER SILK KNITTING MILLS, INC., New York, N. Y. Filed May 3, 1922.

DEW-O-KNIT

Particular description of goods.—Knitted Silk Fabrics—viz, Silk Knitted Cloth.
Claims use since Apr. 10, 1922.

Ser. No. 163,291. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) J. SONNENSCHEIN HOP COMPANY, INC., New York, N. Y. Filed May 3, 1922.

SUNSHINE

Particular description of goods.—A Treated Paper Used in the Making of Cigarettes.
Claims use since about 1905.

Ser. No. 163,331. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) RAFFAELE FRANCIONE, trading as Red Bird Malt & Hop Co., Washington, D. C. Filed May 4, 1922.

RED-BIRD

Particular description of goods.—Malt and Hops Compound.
Claims use since Apr. 1, 1922.

Ser. No. 163,422. (CLASS 38. PRINTS AND PUBLICATIONS.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed May 5, 1922.

RADIO BROADCASTING NEWS

Particular description of goods.—Weekly Magazines.
Claims use since Dec. 29, 1922.

Ser. No. 163,394. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LUNEPP LACE & EMBROIDERY CO., South River, N. J. Filed May 17, 1922.

Amifrench Bed Wear

No claim to exclusive right to use of words "Bed Wear" apart from the mark shown.
Particular description of goods.—Pillowcases and Bed Wear.
Claims use since 1914.

Ser. No. 164,313. (CLASS 45. BEVERAGES, NONALCOHOLIC.) HATFIELD & BELL, Brooklyn, N. Y. Filed May 23, 1922.



Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since January, 1912.

Ser. No. 164,376. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim being made to the exclusive use of the representation of a fish and line or the words "Brand," "Selected Quality Japan Silk," "Peerless Process," "Enameled Line," "Flexible," "Durable," or "Quality First" apart from the mark as shown on the drawing.

Particular description of goods.—Enameled Japan-Silk Fishing Lines.

Claims use since Sept. 4, 1917.

Ser. No. 164,382. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y., Filed May 24, 1922.



No claim being made to the exclusive use of the words "Finest Quality Hard Braided Waterproof Silk Casting Line," "No. 1393," or "Test 24 Lbs." apart from the mark as shown on the drawing.

Particular description of goods.—Hard Braided Waterproof Silk Fishing Lines.

Claims use since Mar. 16, 1917.

Ser. No. 164,425. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.

Regina

Particular description of goods.—Powder Puffs.

Claims use since May 5, 1922.

Ser. No. 164,479. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ANAHEIM BOTTLING WORKS, Anaheim, Calif. Filed May 25, 1922.

GUSHER

Particular description of goods.—Maltless Carbonated Beverages.

Claims use since Mar. 1, 1922.

Ser. No. 165,064. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NELSON KERSHAW, Clifton Heights, Pa. Filed June 6, 1922.

Rub-a-bak

Trade-mark "Rub-a-bak."

Particular description of goods.—Bath Towels.

Claims use since May 12, 1922.

Ser. No. 165,127. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. ENGEL & SONS, New York, N. Y. Filed June 7, 1922.

Unique

Particular description of goods.—Handkerchiefs.

Claims use since June 1, 1920.

Ser. No. 165,129. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. ENGEL & SONS, New York, N. Y. Filed June 7, 1922.

U-NEED-A-KERCHIEF

Particular description of goods.—Handkerchiefs.

Claims use since June 1, 1920.

Ser. No. 165,130. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. ENGEL & SONS, New York, N. Y. Filed June 7, 1922.

Famous

Particular description of goods.—Handkerchiefs.

Claims use since June 1, 1920.

Ser. No. 165,132. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FULD BROTHERS, New York, N. Y. Filed June 7, 1922.

HOMESTEAD

Particular description of goods.—Cotton Tablecloths, Woolen and Cotton Blankets.

Claims use since Oct. 25, 1916.

Ser. No. 165,135. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) AURORA Q. HODGSON, New York, N. Y. Filed June 7, 1922.

Snow-Belle

Particular description of goods.—Powder Puffs of Wool Yarn Crocheted.

Claims use since Mar. 25, 1922.

Ser. No. 165,148. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LUDLOW MANUFACTURING ASSOCIATES, Boston, Mass. Filed June 7, 1922.

MAINSTAY

Trade-mark "Mainstay."

Particular description of goods.—Jute Webbing.

Claims use since Dec. 31, 1919.

Ser. No. 165,149. ((CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) T. J. MITCHELL & CO. INC., New York, N. Y. Filed June 7, 1922.

AMBEROSE

Particular description of goods.—Silk Piece Goods.

Claims use since May 16, 1922.

Ser. No. 165,150. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEW & FRANK COMPANY, Chicago, Ill. Filed June 7, 1922.



Particular description of goods.—Ticking.

Claims use since May 1, 1921.

Ser. No. 165,166. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. V. T. SCHILL CO., New York, N. Y. Filed June 7, 1922.

OLUSE

Particular description of goods.—Cloths, Known as Piece Goods, Woven from Cotton, Silk, Wool, and Linen, and Silk and Cotton, Linen and Wool, Linen and Cotton, Wool and Silk, and Wool and Cotton.

Claims use since Aug. 18, 1920.

Ser. No. 165,199. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) D. S. MACKAY & CO., New York, N. Y. Filed June 8, 1922.

THE MACKYE LOOMS

Particular description of goods.—Woolen Piece Goods Particularly Adapted for Coatings.

Claims use since Feb. 6, 1922.

Ser. No. 165,296. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LUDLOW MANUFACTURING ASSOCIATES, Boston, Mass. Filed June 10, 1922.

EMPIRE

Trade-mark, "Empire."
Particular description of goods.—Jute Bagging.
Claims use since Dec. 31, 1907.

Ser. No. 165,297. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LUDLOW MANUFACTURING ASSOCIATES, Boston, Mass. Filed June 10, 1922.

PACIFIC

Trade-mark "Pacific."
Particular description of goods.—Jute Bagging.
Claims use since Dec. 31, 1907.

Ser. No. 165,306. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE JAMES E. RICHARDS COMPANY, Dayton, Ohio. Filed June 10, 1922.

Du-ply

Particular description of goods.—Woven Cotton Textiles.
Claims use since Jan. 20, 1920.

Ser. No. 165,441. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed June 13, 1922.

Queen-o-crepe

The word "Crepe" is disclaimed when used apart from mark shown.
Particular description of goods.—Silk Piece Goods.
Claims use since May 31, 1922.

Ser. No. 165,471. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ATLANTIC MILLS, Providence, R. I. Filed June 14, 1922.

Ponjard

Particular description of goods.—Worsted Piece Goods.
Claims use since March, 1922.

Ser. No. 165,486. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed June 14, 1922.

CHARMO

Particular description of goods.—Silk Piece Goods.
Claims use since Dec. 15, 1921.

Ser. No. 165,550. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) HUMIDISK COMPANY, Detroit, Mich. Filed June 15, 1922.

HUMIDISK

Particular description of goods.—Tobacco Humidifiers.
Claims use since June 3, 1922.

Ser. No. 165,648. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) SIEGEL, ROTHSCHILD & Co., Baltimore, Md. Filed June 17, 1922.

TUKAWAY
FOR A RAINY DAY

Particular description of goods.—Umbrellas and Parasols.
Claims use since May 1, 1922.

Ser. No. 165,713. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) PACIFIC CLAY PRODUCTS Co., Los Angeles, Calif. Filed June 19, 1922.

PACIFIC

Particular description of goods.—Glazed Stoneware—viz, Milk Pans, Water Jars, Butter Jars, Churns, and Preserve Jars, Pigeon Fountains, Rabbit Jars, Chicken Feeders, Sanitary Poultry Fountains, Casseroles, Boston-Bean Pots, Shoulder Jugs, Mixing Bowls, Steam-Table Insets, Coffee-Urn Jars, Fumigating Pitchers, Combinets, Cuspidors, Water Coolers, Buttermilk Coolers, Cider Coolers, and Ollas.
Claims use since Apr. 1, 1921.

Ser. No. 166,014. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WALTER C. PALMER, doing business as W. R. Palmer & Co., Cincinnati, Ohio. Filed June 24, 1922.

SENIOR

"Senior."
Particular description of goods.—Mops.
Claims use since Apr. 1, 1922.

Ser. No. 166,015. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WALTER .C. PALMER, doing business as W. R. Palmer & Co., Cincinnati, Ohio. Filed June 24, 1922.

JUNIOR

Trade-mark "Junior."
Particular description of goods.—Mops.
Claims use since Apr. 1, 1922.

Ser. No. 166,016. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WALTER C. PALMER, doing business as W. R. Palmer & Co., Cincinnati, Ohio. Filed June 24, 1922.

JUMBO

Trade-mark "Jumbo."
Particular description of goods.—Mops.
Claims use since Apr. 1, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 1, 1922.

157,298. CERTAIN NAMED TOILET PREPARATIONS. AFFINITY COMPANY, Grand Rapids, Mich.
Filed December 8, 1921. Serial No. 156,432. PUBLISHED MARCH 14, 1922.

157,299. COSMETICS FOR PROMOTING THE GROWTH OF HUMAN HAIR. AKTIENGESELLSCHAFT FÜR CHEMISCHE PRODUKTE VORMALS H. SCHEIDEMANDEL, Berlin, Germany.
Filed August 30, 1920. Serial No. 136,659. PUBLISHED MAY 9, 1922.

157,300. PHARMACEUTICAL PREPARATION FOR PROMOTING THE GROWTH OF HUMAN HAIR, WOOL, AND FEATHERS. AKTIENGESELLSCHAFT FÜR CHEMISCHE PRODUKTE VORMALS H. SCHEIDEMANDEL, Berlin, Germany.
Filed August 30, 1920. Serial No. 136,660. PUBLISHED MARCH 7, 1922.

157,301. FLUID SOLDERING FLUX. AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa.
Filed December 20, 1921. Serial No. 156,956. PUBLISHED MARCH 14, 1922.

157,302. CERTAIN NAMED MEDICINAL PREPARATIONS. AMERICUS OJEDA MCMICHAEL, Denver, Colo.
Filed November 5, 1921. Serial No. 155,064. PUBLISHED MAY 9, 1922.

157,303. A CERTAIN NAMED VETERINARY PREPARATION. WILLIAM GEORGE ASQUITH, doing business as The Astron Manufacturing Co., London, England.
Filed March 21, 1921. Serial No. 144,996. PUBLISHED MAY 9, 1922.

157,304. WORSTED PIECE GOODS. ATLANTIC MILLS, INC., Providence, R. I.
Filed December 6, 1921. Serial No. 156,321. PUBLISHED MARCH 14, 1922.

157,305. INSECTICIDE SPRAY. BALFOUR, GUTHRIE & Co., San Francisco, Calif.
Filed October 26, 1921. Serial No. 154,581. PUBLISHED MARCH 14, 1922.

157,306. INTERNAL MEDICINE FOR COUGHS, COLDS, BRONCHITIS, WHOOPING COUGH, AND THROAT AND LUNG TROUBLES. BAY STATE DRUG CO., Fitchburg, Mass.
Filed November 17, 1921. Serial No. 155,480. PUBLISHED MARCH 14, 1922.

157,307. BAKING POWDER. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y.
Filed December 19, 1921. Serial No. 156,879. PUBLISHED MARCH 14, 1922.

157,308. STEEL-HARDENING SOLUTIONS. WILLIAM A. BECKWITH, Worcester, Mass.
Filed November 25, 1921. Serial No. 155,855. PUBLISHED MAY 9, 1922.

157,309. BOARD GAMES PLAYED SIMILARLY TO CHECKERS AND USED ESPECIALLY IN PLAYING WAR GAMES. LIONEL B. BERESFORD, doing business as Elcaptain Toy and Game Co., Beverly, N. J.
Filed December 8, 1920. Serial No. 140,775. PUBLISHED MAY 9, 1922.

157,310. MEDICINAL PREPARATION USED AS AN ANTIACID DIGESTANT. BISODOL CO., INC., New York, N. Y.
Filed June 20, 1921. Serial No. 149,374. PUBLISHED MARCH 14, 1922.

157,311. BLUING. JULIUS H. BRAUER, Buffalo, N. Y.
Filed December 8, 1921. Serial No. 156,438. PUBLISHED MARCH 7, 1922.

157,312. FACE POWDER. E. BURNHAM, INC., Chicago, Ill.
Filed November 22, 1921. Serial No. 155,733. PUBLISHED MARCH 7, 1922.

157,313. HEALING SALVE. ANDREW F. CARLIN, Brighton, Mass.
Filed November 26, 1921. Serial No. 155,956. PUBLISHED MARCH 21, 1922.

157,314. PREPARATIONS CONSISTING IN CALCIUM HYPOCHLORITE OR CONTAINING CALCIUM HYPOCHLORITE. CHEMISCHE FABRIK GRIESHEIM-ELEKTRON, Frankfort-on-the-Main, Germany.
Filed April 14, 1921. Serial No. 146,163. PUBLISHED MAY 2, 1922.

157,315. BATH SALTS. CHERAMY, INCORPORATED, New York, N. Y.
Filed December 13, 1921. Serial No. 156,620. PUBLISHED MARCH 14, 1922.

157,316. PERFUME, TOILET WATER, FACE LOTION, FACE POWDER, ROUGE, SACHET, BRILLIANTINE, AND TALCUM POWDER. CHERAMY, INCORPORATED, New York, N. Y.
Filed December 22, 1921. Serial No. 157,023. PUBLISHED MAY 2, 1922.

157,317. PREPARATIONS FOR THE TREATMENT OF DISEASES OF THE LIVER, PARTICULARLY GALL STONES. CHOLSANIN, A. G., Berne, Switzerland.
Filed July 22, 1921. Serial No. 150,802. PUBLISHED MAY 9, 1922.

157,318. COUGH DROPS. LOUIS E. CIMICATA, St. Louis, Mo.
Filed November 28, 1921. Serial No. 155,994. PUBLISHED MARCH 21, 1922.

157,319. MEDICATED TOILET PREPARATION FOR THE TREATMENT OF THE HAIR AND SCALP. CONNER AND WALTERS COMPANY, INC., Charlotte, N. C
Filed January 4, 1922. Serial No. 157,474. PUBLISHED MAY 9, 1922.

157,320. ANTISEPTIC FOR TEETH, SORES, THROAT WASH, AND DOUCHES. F. B. CROCKER, Fostoria, Ohio.
Filed October 24, 1921. Serial No. 154,486. PUBLISHED MARCH 14, 1922.

157,321. A CERTAIN NAMED MEDICINAL PREPARATION. EDWARD HARVEY CUNNINGHAM, San Antonio, Tex.
Filed March 28, 1921. Serial No. 145,323. PUBLISHED MARCH 21, 1922.

157,322. POWDER INSECTICIDE. WESLEY C. DAVEY, doing business as D. & C. Specialty Co., Hazleton, Pa.
Filed January 5, 1922. Serial No. 157,516. PUBLISHED MAY 9, 1922.

157,323. TONIC OR NERVE RESTORER AND SYSTEM BUILDER. JAMES DE LANGE, Clinton, Iowa.
Filed December 8, 1921. Serial No. 156,443. PUBLISHED MARCH 7, 1922.

157,324. CERTAIN NAMED TOILET PREPARATIONS. THE DE PREE CHEMICAL COMPANY, Holland, Mich.
Filed April 21, 1919. Serial No. 117,647. PUBLISHED SEPTEMBER 20, 1921.

157,325. HAIR TONICS. GEORGE W. DUNLEAVY, Cambridge, Mass.
Filed December 15, 1921. Serial No. 156,736. PUBLISHED MARCH 14, 1922.

157,326. CLOTHES-WASHING MACHINES, WRINGERS, AND MANGLES. JOHN DUNN, SON & CO., New York, N. Y.
Filed December 10, 1920. Serial No. 140,872. PUBLISHED MARCH 14, 1922.

157,327. BAKING POWDER. EMPIRE FOOD PRODUCTS COMPANY, New York, N. Y.
Filed December 9, 1921. Serial No. 156,482. PUBLISHED MARCH 14, 1922.

157,328. PERFUMES. RENÉ EYBEN, doing business under name and style of Hujarvis, New York, N. Y.
Filed January 4, 1922. Serial No. 157,479. PUBLISHED MAY 9, 1922.

157,329. A CERTAIN NAMED MEDICINAL PREPARATION. DR. PETER FAHRNEY & SONS CO., Chicago, Ill.
Filed November 19, 1921. Serial No. 155,605. PUBLISHED MARCH 14, 1922.

157,330. A CERTAIN NAMED MEDICINAL PREPARATION. DR. PETER FAHRNEY & SONS CO., Chicago, Ill.
Filed November 19, 1921. Serial No. 155,606. PUBLISHED MARCH 14, 1922.

157,331. A CERTAIN NAMED MEDICINAL PREPARATION. DR. PETER FAHRNEY & SONS CO., Chicago, Ill.
Filed November 19, 1921. Serial No. 155,607. PUBLISHED MARCH 14, 1922.

157,332. A CERTAIN NAMED MEDICINAL PREPARATION. DR. PETER FAHRNEY & SONS CO., Chicago, Ill.
Filed November 19, 1921. Serial No. 155,608. PUBLISHED MARCH 14, 1922.

157,333. A CERTAIN NAMED MEDICINAL PREPARATION. DR. PETER FAHRNEY & SONS CO., Chicago, Ill.
Filed November 19, 1921. Serial No. 155,609. PUBLISHED MARCH 14, 1922.

157,334. PREPARATION FOR THE TREATMENT OF COUGHS, COLDS, GRIP, BRONCHIAL, CATARRHAL AND SIMILAR AFFECTIONS. GILBERT BROS. & CO. INC., Baltimore, Md.
Filed November 25, 1921. Serial No. 155,882. PUBLISHED MARCH 21, 1922.

157,335. A CERTAIN NAMED MEDICINAL PREPARATION. ALBERT A. GLASSMAN, New York, N. Y.
Filed July 30, 1921. Serial No. 151,137. PUBLISHED APRIL 4, 1922.

157,336. DISINFECTANTS. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed March 10, 1921. Serial No. 144,568. PUBLISHED AUGUST 28, 1921.

157,337. AUTOMOBILES. FULTON MOTORS CORPORATION, New York, N. Y.
Filed January 10, 1921. Serial No. 142,014. PUBLISHED APRIL 25, 1922.

157,338. AUTOMOBILES. FULTON MOTORS CORPORATION, New York, N. Y.
Filed December 22, 1920. Serial No. 141,446. PUBLISHED APRIL 25, 1922.

157,339. MEDICINAL PREPARATIONS USED IN THE TREATMENT OF HEMORRHOIDS. DR. A. C. HAINES, Columbus, Ohio.
Filed May 26, 1921. Serial No. 148,267. PUBLISHED MAY 2, 1922.

157,340. A CERTAIN NAMED MEDICINAL PREPARATION. CLIFFORD G. HAMBO, Portland, Oreg.
Filed October 22, 1920. Serial No. 138,678. PUBLISHED MARCH 14, 1922.

157,341. BLOOD PURIFIER AND CLEANSER AND SYSTEM BUILDER. HART-SHAW-MILLER DRUG COMPANY, Adrian, Mich.
Filed January 9, 1922. Serial No. 157,668. PUBLISHED MAY 9, 1922.

157,342. PERFUMERY. LEON HERBGOTT, Paris, France.
Filed October 28, 1920. Serial No. 138,909. PUBLISHED MAY 9, 1922.

157,343. PERFUME EXTRACT AND TOILET WATER. HOUBIGANT, INC., New York, N. Y.
Filed January 6, 1922. Serial No. 157,571. PUBLISHED MAY 9, 1922.

157,344. TOILET PREPARATIONS—NAMELY, HAIR TONICS AND HAIR DRESSINGS. IMPERIAL PERFUME CO., New York, N. Y.
Filed June 25, 1921. Serial No. 149,643. PUBLISHED MARCH 7, 1922.

157,345. WRITING PAPER. INTER-COLLEGIATE PRESS, Kansas City, Mo.
Filed April 30, 1921. Serial No. 147,026. PUBLISHED MAY 2, 1922.

157,346. IRON OXIDE. IRON OXIDE PRODUCTS, INC., Cicero, Ill.
Filed October 24, 1921. Serial No. 154,516. PUBLISHED MARCH 7, 1922.

157,347. PHARMACEUTICAL PRODUCTS ESPECIALLY FOR ASTHMA. DR. KADE'S MEDIZINISCH-PHARMAZEUTISCHES FABRIKATIONS- & EXPORTGESCHAFT DR. FRANZ LUTZE, Berlin, Germany.
Filed July 21, 1921. Serial No. 150,755. PUBLISHED MAY 9, 1922.

157,348. LAXATIVE TABLETS. JOHN M. KAPPUS, trading as United Service Distributors, Cleveland, Ohio.
Filed March 25, 1921. Serial No. 145,218. PUBLISHED MAY 2, 1922.

157,349. PREPARATION FOR TREATMENT OF FOOT AILMENTS. IRVING H. KATOFF, New York, N. Y.
Filed December 23, 1921. Serial No. 157,068. PUBLISHED MARCH 14, 1922.

157,350. PERFUMERY. LEON HERBGOTT, Paris, France.
Filed October 28, 1920. Serial No. 138,908. PUBLISHED MAY 9, 1922.

157,351. BODY SUGAR FOR BEER COLORING AND BEER FLAVORING. KLATSCHER & LORENZ, INC., New York, N. Y.
Filed July 14, 1920. Serial No. 134,960. PUBLISHED MAY 9, 1922.

157,352. CERTAIN NAMED MEDICINAL PREPARATIONS. KNEE 4 MEDICINE COMPANY, Savannah, Ga.
Filed May 31, 1921. Serial No. 148,445. PUBLISHED MARCH 7, 1922.

157,353. BAKING POWDER. THE LAIRD MANUFACTURING CO. INC., Richmond, Va.
Filed January 6, 1922. Serial No. 157,578. PUBLISHED MAY 9, 1922.

157,354. PREPARATION FOR THE TREATMENT OF ASTHMA. CLYDE LEAVENGOOD, Rosedale, Kans.
Filed November 21, 1921. Serial No. 155,698. PUBLISHED MARCH 21, 1922.

157,355. CERTAIN NAMED MEDICINAL PREPARATIONS. MRS. MARY LIEBSCH, Kansas City, Mo.
Filed April 30, 1921. Serial No. 147,032. PUBLISHED MARCH 21, 1922.

157,356. MEDICINE USED AS A TREATMENT FOR LUNG AND BRONCHIAL AFFLICTIONS. LLOYD DRUG COMPANY, Detroit, Mich.
Filed December 17, 1921. Serial No. 156,838. PUBLISHED MARCH 14, 1922.

157,357. HAIR TONIC AND HAIR SHAMPOO. PEARL G. MCCOLLUM, Texarkana, Ark.
Filed May 31, 1921. Serial No. 148,452. PUBLISHED MARCH 21, 1922.

157,358. TOILET PAPER. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed April 22, 1921. Serial No. 146,535. PUBLISHED MARCH 7, 1922.

157,359. ANTIFAT MEDICINES. MAR-VELLO REMEDIES CO., Tiffin, Ohio.
Filed December 4, 1920. Serial No. 140,627. PUBLISHED MAY 9, 1922.

157,360. A CERTAIN NAMED MEDICINAL PREPARATION. PAUL METADIER, Tours, France.
Filed December 19, 1921. Serial No. 156,918. PUBLISHED MARCH 14, 1922.

157,361. LEGAL PAPER, LETTER PAPER, WRITING PADS, NOTEBOOKS, BLANK BOOKS, RUBBER OR RUBBER-COMPOSITION ERASERS, LEAD PENCILS, AND SCHOOL RULERS. J. MEYERS STATIONERY & PRINTING CO., INC., New York, N. Y.
Filed January 6, 1921. Serial No. 141,911. PUBLISHED MARCH 21, 1922.

157,362. SILVER CYANIDE, ZINC CYANIDE, AND COPPER CYANIDE. MIDDLESEX ANILINE COMPANY, INC., Lincoln, N. J.
Filed December 14, 1921. Serial No. 156,702. PUBLISHED MARCH 7, 1922.

157,363. CROUP OINTMENT. AMBROSE MIDDLETON, Mansfield, Ohio.
Filed November 5, 1921. Serial No. 155,065. PUBLISHED MARCH 7, 1922.

157,364. PREPARATION USED TO PREVENT THE FREEZING OF RADIATORS. MIFFLIN CHEMICAL CORPORATION, Philadelphia, Pa.
Filed December 13, 1921. Serial No. 156,651. PUBLISHED MARCH 14, 1922.

157,365. PERFUMES. MILNES PERFUME COMPANY, INC., New York, N. Y.
Filed December 8, 1921. Serial No. 156,457. PUBLISHED MARCH 7, 1922.

157,366. EMBALMING FLUID. CHESTER M. MORGAN, Findlay, Ohio.
Filed December 14, 1921. Serial No. 156,698. PUBLISHED MARCH 7, 1922.

157,367. A GARGLE FOR SORE THROAT. PAUL O. NUTT, Des Moines, Iowa.
Filed August 24, 1920. Serial No. 136,425. PUBLISHED JULY 12, 1921.

157,368. HAIR REMOVER IN POWDERED FORM. PAN AMERICAN PHARM. CO. INC., New York, N. Y.
Filed November 26, 1921. Serial No. 155,975. PUBLISHED MARCH 7, 1922.

157,369. GERMICIDES AND ANTISEPTICS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed December 14, 1921. Serial No. 156,712. PUBLISHED MARCH 14, 1922.

157,370. GINGER ALE. PENINSULA PRODUCTS COMPANY, Wilmington, Del.
Filed September 16, 1920. Serial No. 137,268. PUBLISHED MAY 9, 1922.

157,371. DENTIFRICES. THE PEPSODENT COMPANY, Chicago, Ill.
Filed January 5, 1922. Serial No. 157,532. PUBLISHED MAY 9, 1922.

157,372. CERTAIN NAMED TOILET PREPARATIONS. PERFECTION LABORATORIES, Chicago, Ill.
Filed October 13, 1921. Serial No. 154,064. PUBLISHED MARCH 14, 1922.

157,373. HANDLED HAMMERS, HATCHETS, AXES, ADZES, AND SLEDGES. FAYETTE R. PLUMB, INCORPORATED, Philadelphia, Pa.
Filed July 22, 1921. Serial No. 150,822. PUBLISHED MAY 16, 1922.

157,374. INTESTINAL CATHARTIC FOR CONSTIPATION. WALTER S. POWELL, Georgetown, Ky.
Filed December 17, 1921. Serial No. 156,859. PUBLISHED MARCH 14, 1922.

157,375. CERTAIN NAMED TOILET PREPARATIONS. EMMETT POWERS, trading as Joon Perfumery Co., Denver, Colo.
Filed November 19, 1921. Serial No. 155,682. PUBLISHED MAY 2, 1922.

157,376. MEDICATED BOUGIES FOR HUMAN USE. PRODUITS CHIMIQUES & PHARMACEUTIQUES MEURICE SOCIÉTÉ ANONYME, Brussels, Belgium.
Filed December 21, 1921. Serial No. 157,004. PUBLISHED MARCH 14, 1922.

157,377. CHEMICAL COMPOSITION FOR SMELTING PURPOSES. MOSES B. RENDELL, New York, N. Y.
Filed March 15, 1921. Serial No. 144,786. PUBLISHED FEBRUARY 7, 1922.

157,378. CIGARS, CIGARETTES, CIGARILLOS, SMOKING, CHEWING, AND SNUFF TOBACCO, UNPREPARED TOBACCO. J. GARBÁTY-ROSENTHAL ZIGARETTENFABRIK J. GARBÁTY, BERLIN-PANKOW, Berlin-Pankow, Germany.
Filed May 19, 1921. Serial No. 147,915. PUBLISHED MAY 9, 1922.

157,379. CIGARETTES, SMOKING, CHEWING, AND SNUFF TOBACCO, CUT AND UNPREPARED TOBACCO. J. GARBÁTY-ROSENTHAL ZIGARETTENFABRIK J. GARBÁTY, BERLIN-PANKOW, Berlin-Pankow, Germany.
Filed May 19, 1921. Serial No. 147,916. PUBLISHED MAY 9, 1922.

157,380. CIGARS, CIGARETTES, CIGARILLOS, SMOKING, CHEWING, SNUFF TOBACCO, AND UNPREPARED TOBACCO. J. GARBÁTY-ROSENTHAL ZIGARETTENFABRIK J. GARBÁTY, BERLIN-PANKOW, Berlin-Pankow, Germany.
Filed May 19, 1921. Serial No. 147,917. PUBLISHED MAY 9, 1922.

157,381. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. BENJAMIN ROTTENBERG, trading as Baltic Chemical Co., New York, N. Y.
Filed January 8, 1920. Serial No. 126,945. PUBLISHED MAY 2, 1922.

157,382. RUBBER PRESERVATIVE. RUBBER PROCESS CORPORATION, Detroit, Mich.
Filed January 6, 1922. Serial No. 157,586. PUBLISHED MAY 9, 1922.

157,383. A CERTAIN NAMED MEDICINAL PREPARATION. THE GEORGE H. RUNDLE COMPANY, Piqua, Ohio.
Filed December 19, 1921. Serial No. 156,922. PUBLISHED MARCH 14, 1922.

157,384. TOOTH PASTE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 7, 1921. Serial No. 156,419. PUBLISHED APRIL 18, 1922.

157,385. PREPARATION FOR THE RELIEF OF BRONCHIAL ASTHMA, HAY FEVER, COLDS, AND INFLUENZA. JOHN B. SHAFFER, Lima, Ohio.
Filed December 23, 1921. Serial No. 157,080. PUBLISHED MARCH 14, 1922.

157,386. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. JOHN B. SHENK, Philadelphia, Pa.
Filed August 24, 1920. Serial No. 136,437. PUBLISHED MAY 2, 1922.

157,387. CERTAIN NAMED CHEMICALS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed September 8, 1920. Serial No. 136,957. PUBLISHED MARCH 21, 1922.

157,388. A CHEMICAL CLEANER FOR CERAMIC MATERIALS. THE SINCLAIR MFG. COMPANY, Toledo, Ohio.
Filed November 17, 1921. Serial No. 155,522. PUBLISHED MARCH 14, 1922.

157,389. TOY BLOCKS. JESSE SROFE, trading as J. Srofe Company, Cincinnati, Ohio.
Filed March 1, 1921. Serial No. 144,204. PUBLISHED MAY 9, 1922.

157,390. TOYS—NAMELY, A WOODEN TOY GUNBOAT ON WHEELS. WILLIAM C. STANKE, Hoboken, N. J.
Filed February 18, 1921. Serial No. 143,795. PUBLISHED MAY 9, 1922.

157,391. CERTAIN NAMED MEDICINAL PREPARATIONS. HAROLD CHARLES STORICK, Berrien Springs, Mich.
Filed April 22, 1921. Serial No. 146,596. PUBLISHED SEPTEMBER 6, 1921.

157,392. CERTAIN NAMED MEDICINAL PREPARATIONS. THE SULPREME CHEMICAL CO., Northcarrollton, Miss.
Filed December 8, 1921. Serial No. 156,469. PUBLISHED MARCH 21, 1922.

157,393. LEATHER AND LEATHER BENDS, SIDES, BLOCKS, AND STRIPS. TANNERS CUT SOLE COMPANY, Boston, Mass.
Filed January 31, 1921. Serial No. 143,021. PUBLISHED APRIL 25, 1922.

157,394. BRAKE LININGS. THERMOID RUBBER COMPANY, Hamilton Township, Mercer County, N. J.
Filed December 16, 1919. Serial No. 126,154. PUBLISHED APRIL 20, 1920.

157,395. CERTAIN NAMED TOILET PREPARATIONS. ALICE THOMPSON, San Francisco, Calif.
Filed November 30, 1921. Serial No. 156,118. PUBLISHED MAY 2, 1922.

157,396. MEDICINE FOR KIDNEY, LIVER, BLADDER, RHEUMATISM, AND URIC-ACID TROUBLES. F. A. THOMPSON & COMPANY, Detroit, Mich.
Filed December 19, 1921. Serial No. 156,935. PUBLISHED MAY 2, 1922.

157,397. CERTAIN NAMED MEDICINAL PREPARATIONS. UNITED RETAIL CHEMISTS CORPORATION, New York, N. Y.
Filed January 18, 1921. Serial No. 142,432. PUBLISHED JUNE 14, 1921.

157,398. PREPARATION FOR THE TREATMENT OF THE SCALP AND GROWTH OF HAIR. JOSEPH VAJDA, New York, N. Y.
Filed December 19, 1921. Serial No. 156,941. PUBLISHED MARCH 14, 1922.

157,399. NEAR BEER, MALT TONIC, MALT SIRUP, AND MALT EXTRACT. VAL BLATZ BREWING COMPANY, Milwaukee, Wis.
Filed January 17, 1921. Serial No. 142,321. PUBLISHED MAY 9, 1922.

157,400. AUTOMOBILES AND MOTOR CYCLES. VAUXHALL MOTORS LIMITED, Luton, England.
Filed December 27, 1921. Serial No. 157,192. PUBLISHED MARCH 14, 1922.

157,401. CERTAIN NAMED TOILET PREPARATIONS. MADAME C. J. WALKER, INC., Chicago, Ill.
Filed November 16, 1920. Serial No. 139,727. PUBLISHED NOVEMBER 1, 1921.

157,402. OLIVE-OIL SHAMPOO. WHITE-DOVE LABORATORIES, New York, N. Y.
Filed November 10, 1921. Serial No. 155,287. PUBLISHED MAY 9, 1922.

157,403. MINIATURE TABLE, BED, AND TOILET ARTICLES FOR CHILDREN'S DOLLS. EDITH E. WILLSON, Washington, D. C.
Filed October 4, 1920. Serial No. 137,900. PUBLISHED MAY 9, 1922.

157,404. PREPARATION FOR INDIGESTION AND STOMACH TROUBLES. JOHN WOOD, Columbus, Ohio.
Filed December 15, 1921. Serial No. 156,772. PUBLISHED MARCH 14, 1922.

157,405. BRUSHES — VIZ, NAIL, PAINT, VARNISH, HAND, FLOOR, CALCIMINE, WHITEWASH, AND SHAVING. THE WOOSTER BRUSH COMPANY, Wooster, Ohio.
Filed April 22, 1921. Serial No. 146,605. PUBLISHED MAY 9, 1922.

157,406. SALT. WORCESTER SALT CO., New York and Silver Springs, N. Y., and Ecorse, Mich.
Filed November 21, 1921. Serial No. 155,723. PUBLISHED MAY 2, 1922.

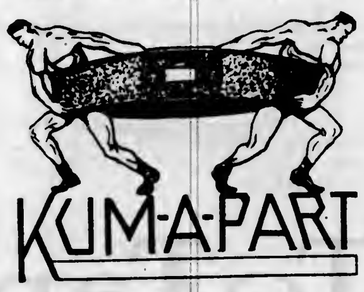
TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

AUGUST 1, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

157,407. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE BAER & WILDE CO. INC., Attleboro, Mass. Filed June 8, 1921. Serial No. 148,575.



Particular description of goods.—Belt Buckles Made of or Plated with Precious Metal.
Claims use since April, 1921.

157,408. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) STEPHEN BENNIS, Mineola, Long Island, N. Y. Filed Apr. 27, 1922. Serial No. 162,979.



Particular description of goods.—Talking-Machine Needles.
Claims use since Dec. 1, 1920.

157,409. (CLASS 37. PAPER AND STATIONERY.) BERMINGHAM & PROSSER COMPANY, Kalamazoo, Mich. Filed May 5, 1922. Serial No. 163,377.

MOLTIFOLD ENAMEL

Particular description of goods.—Book Paper.
Claims use since January, 1916.

157,410. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JAMES A. BRADY FOUNDRY COMPANY, Chicago, Ill. Filed May 8, 1922. Serial No. 163,257.

HARRINGTON STOKER

Particular description of goods.—Stokers.
Claims use since about Oct. 18, 1919.

157,411. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CONNECTICUT TELEPHONE & ELECTRIC COMPANY, INCORPORATED, Meriden, Conn. Filed Nov. 8, 1921. Serial No. 155,158.

CONNECTICUT

Particular description of goods.—Telephones and Parts Therefor, Electrical Annunciators, Switchboards, Push Buttons, Induction Coils and Choke Coils; Wireless Apparatus—Namely, Variometers, Rheostats, Condensers, Loose Couplers, Receiving Sets, Sending Sets, Rectifiers, Power Tubes, Vacuum Tubes, Vacuum-Tube Sockets, Jacks, Plugs, Amplifiers, Long-Wave Coils, Variable Condensers, Tuning Sets, Detectors and Receivers; Electrical Igniters for Internal-Combustion Motors and Parts for Said Igniters—Namely, Spark-Point Assemblies, Coils, Switches, Magnetos, Vibrator Coils, Induction Coils, Terminals and Terminal Connectors, Condensers, Automatic Circuit Breakers, Also Dimming Switches, Electric-Light-Bulb Holders, and Electric Dashboard-Lamp Holders.
Claims use not less than one year.

157,412. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CROFTS & REED CO., Chicago, Ill. Filed Mar. 8, 1922. Serial No. 160,116.

BIG VALUE

Particular description of goods.—Toilet and Laundry Soaps.
Claims use since Feb. 1, 1921.

157,413. (CLASS 12. CONSTRUCTION MATERIALS.) T. D. EICHELBERGER'S SONS, Dayton, Ohio. Filed Apr. 17, 1922. Serial No. 162,387.



Particular description of goods.—Reinforcing Iron, Mortar Color, Hollow Brick, Metal Lath, Asbestos-Shingle Roofing, Asphalt-Base Roofing with a Slate Surface, Plaster, Lime Cement, Fire Brick, Wall Board, Flue Lining, Paving Brick, Plaster-Board Fireproofing.
Claims use since 1885.

157,414. (CLASS 12. CONSTRUCTION MATERIALS.) FORD ROOFIN PRODUCTS CO., Chicago, Ill. Filed May 22, 1922. Serial No. 164,242.



Particular description of goods.—Asphalt Shingles.
Claims use since July, 1920.

157,415. (CLASS 45. BEVERAGES, NONALCOHOLIC.) GARRETT & COMPANY, INC., New York, N. Y. Filed June 3, 1921. Serial No. 148,593.



Particular description of goods.—A Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since January, 1921.

157,416. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE GINSENG BOTTLING CO., Menomonee Falls, Wis. Filed May 6, 1922. Serial No. 163,443.



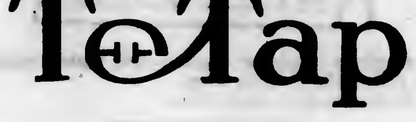
Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making Same.
Claims use since Mar. 1, 1908.

157,417. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HIGH TEST MALT EXTRACT CO., Chicago, Ill. Filed Feb. 8, 1922. Serial No. 159,022.



Particular description of goods.—Malt Extract for Food Purposes.
Claims use since Jan. 1, 1921.

157,418. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HARVEY HUBBELL, INCORPORATED, Bridgeport, Conn. Filed May 28, 1921. Serial No. 148,386.



Particular description of goods.—Electric Plugs, Caps, and Receptacles.
Claims use since May 9, 1921.

157,419. (CLASS 37. PAPER AND STATIONERY.) GEORGE B. HURD & Co., New York, N. Y. Filed May 22, 1922. Serial No. 164,246.



Particular description of goods.—Writing Paper and Correspondence Envelopes.
Claims use since about Apr. 2, 1908.

157,420. (CLASS 37. PAPER AND STATIONERY.) GEORGE B. HURD & Co., New York, N. Y. Filed May 22, 1922. Serial No. 164,247.



Particular description of goods.—Writing Paper and Correspondence Envelopes.
Claims use since about Apr. 2, 1908.

157,421. (CLASS 37. PAPER AND STATIONERY.) GEORGE B. HURD & Co., New York, N. Y. Filed May 22, 1922. Serial No. 164,248.



Particular description of goods.—Writing Paper and Correspondence Envelopes.
Claims use since about Apr. 2, 1908.

157,422. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE JEFFERSON COAL COMPANY, Cleveland, Ohio. Filed Dec. 24, 1921. Serial No. 157,098.

PINEY FORK COAL

Particular description of goods.—Coal.
Claims use since 1903.

157,423. (CLASS 37. PAPER AND STATIONERY.) KALAMAZOO PAPER COMPANY, Kalamazoo, Mich. Filed May 8, 1922. Serial No. 163,524.

FERNWOOD

Particular description of goods.—Writing Paper.
Claims use since December, 1904.

157,424. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KAMP & DUTTON, St. Louis, Mo. Filed Feb. 13, 1922. Serial No. 159,268.

ARABIAN

Particular description of goods.—A Medical Preparation or Ointment for Certain Named Purposes.
Claims use since October, 1908.

157,425. (CLASS 45. BEVERAGES, NONALCOHOLIC.) J. J. MCLAUGHLIN LIMITED, Toronto, Canada. Filed Dec. 27, 1921. Serial No. 157,159.

McLAUGHLIN'S

Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Sirups and Extracts Therefor.
Claims use since 1890.

157,426. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) MERCHANT & EVANS COMPANY, Philadelphia, Pa. Filed May 20, 1921. Serial No. 147,977.



Particular description of goods.—Flexible Disks for Universal Couplings.
Claims use since May 2, 1921.

157,427. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE MOUQUIN RESTAURANT AND WINE COMPANY, LIMITED, New York, N. Y. Filed May 15, 1922. Serial No. 163,889.

Berri = Fruit

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Fruit-Juice Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Dec. 1, 1920.

157,428. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Dec. 13, 1920. Serial No. 141,016.

POLONIA

Particular description of goods.—Cotton Piece Goods.
Claims use since March, 1908.

157,429. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS PHILIPPE, INC., New York, N. Y. Filed Apr. 5, 1922. Serial No. 161,791.

CRÈME ANGÉLUS
THE LEMON VANISHING CREAM

Particular description of goods.—Face Creams.
Claims use since February, 1921.

157,430. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE POLONIA MEDICINE COMPANY, Philadelphia, Pa. Filed Dec. 6, 1921. Serial No. 156,340.

KARPACKA HERBATA

Particular description of goods.—Herb Teas, a Preparation for Constipation, Headache, Dizziness, Indigestion, Skin Eruptions, and Female Complaints.
Claims use since Jan. 1, 1898.

157,431. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) POND'S EXTRACT COMPANY, New York, N. Y. Filed Apr. 14, 1922. Serial No. 162,311.

POND'S
EXTRACT COMPANY'S
COLD
CREAM

Particular description of goods.—Cold Cream.
Claims use since September, 1907.

157,432. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PRICE & TEEPLE PIANO COMPANY, Chicago, Ill. Filed Mar. 6, 1922. Serial No. 160,254.

PRICE & TEEPLE

Particular description of goods.—Pianos and Player Pianos.
Claims use since Sept. 13, 1902

157,433. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) F. W. RAUSKOLB COMPANY, Medford, Mass. Filed Nov. 3, 1921. Serial No. 154,998.

PATENT SIZED PRODUCTS

Particular description of goods.—Gold, Silver, Aluminum, Composition, Ribbon, White and Color Leaf.
Claims use since Sept. 9, 1913.

157,434. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) REDLICH MANUFACTURING COMPANY, Chicago, Ill. Filed May 23, 1921. Serial No. 148,088.

AD-MAP

Particular description of goods.—Puzzles.
Claims use since Apr. 20, 1921.

157,435. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MATTHEW W. RYAN, New York, N. Y. Filed Dec. 29, 1921. Serial No. 157,280.

Ginghamette

Particular description of goods.—Cotton Piece Goods.
Claims use since September, 1916.

157,436. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) LEROY SPENCER, also operating as The Home Supply, Chicago, Ill. Filed Apr. 22, 1922. Serial No. 162,779.

BOHEMIAN
BEVERAGE

Particular description of goods.—Malt Extract, Gelatin, and Hops for Making Nonintoxicating Malt Beverages.
Claims use since August, 1920.

157,437. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUCHYWERKE A. G., Vienna, Austria. Filed Aug. 1, 1921. Serial No. 151,234.

SALISIN

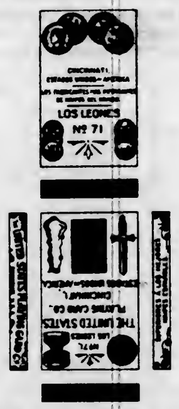
Particular description of goods.—Pharmaceutical Preparation for Rheumatism and Fever.
Claims use since Apr. 10, 1920.

157,438. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Feb. 27, 1922. Serial No. 159,903.

ARDEN

Particular description of goods.—Pottery and Casting Plaster.
Claims use since 1908.

157,439. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed Mar. 20, 1922. Serial No. 160,982.



Particular description of goods.—Playing Cards.
Claims use since Sept. 14, 1897.

157,440. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) GEORGE SHERMAN WARD, New York, N. Y. Filed Dec. 19, 1921. Serial No. 156,943.

KLEEN-RITE

Particular description of goods.—Dessert Dishes, Spoons, Forks, Knives, Soda-Glass Holders, Banana-Split Dishes, Coffeepots, Teapots, Butter Dishes, Salt Shakers, and Pepper Shakers, Said Goods Being Silver Plated.
Claims use since Mar. 1, 1920.

157,441. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WELD IT ACETYLENE COMPANY, Detroit, Mich. Filed Apr. 5, 1922. Serial No. 161,813.



Particular description of goods.—Welding Apparatus, Cutting Apparatus—Namely, Blow Pipes or Torches—and Acetylene Generators.
Claims use since Mar. 1, 1917.

157,442. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LOUIS WEINFELD, doing business as the Consolidated Bottling Works, Norfolk, Va. Filed May 15, 1922. Serial No. 163,908.

JAMESTOWN

Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since 1911.

157,443. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM ZIMMERMAN, Cedar Rapids, Iowa. Filed July 12, 1921. Serial No. 150,300.



Particular description of goods.—Shampoo for Hair and Scalp.
Claims use since May 1, 1921.

TRADE-MARK REGISTRATIONS CANCELED.

27,072. TEA. BERRY, HALL & Co., Burlington, Vt. Registered September 17, 1895. Canceled May 12, 1922.

54,547. COFFEE. THE ENTERPRISE COFFEE COMPANY OF BALTIMORE CITY, Baltimore, Md. Registered June 26, 1906. Canceled May 12, 1922.

88,514. POULTRY FEED. NICKEL PLATE ELEVATOR Co., Cleveland, Ohio. Registered September 24, 1912. Canceled June 19, 1922.

136,880. CERTAIN NAMED POULTRY AND STOCK FEED. THE NICKEL PLATE ELEVATOR Co., Cleveland, Ohio. Registered November 9, 1920. Canceled June 19, 1922.

LABELS

REGISTERED AUGUST 1, 1922.

24,770.—*Title:* "DAFFODIL." (For Butter.) ABERDEEN CREAMERY COMPANY, Aberdeen, Miss. Filed June 26, 1922.

24,771.—*Title:* "BRADLEYSTAT." (For Radio Appliances.) ALLEN-BRADLEY COMPANY, Milwaukee, Wis. Filed June 24, 1922.

24,772.—*Title:* "SUPER QUALITY." (For Piston Pins.) AUTOMOTIVE PRODUCTS CORPORATION, Hazleton, Pa. Filed June 15, 1922.

24,773.—*Title:* "STAGE HOSIERY." (For Hosiery.) MAX BAUM, New York, N. Y. Filed June 17, 1922.

24,774.—*Title:* "BENTON'S COM-AID." (For Composition of Matter for Use on the Hair.) LAWRENCE L. BENTON, Pasadena, Calif. Filed May 20, 1922.

24,775.—*Title:* "CAP-A-HA." (For Cigars.) CAPAHA CIGAR Co., Cape Girardeau, Miss. Filed January 30, 1922.

24,776.—*Title:* "'U-TELL-'EM' IT'S TAS TELLS." (For Ice Cream.) CITY DAIRY AND ICE CREAM Co., St. Joseph, Mo. Filed June 9, 1922.

24,777.—*Title:* "DEERWOOD." (For Sweet Corn.) THE COPPS Co., Stevens Point, Wis. Filed June 19, 1922.

24,778.—*Title:* "CROWN." (For Root Beer.) THE CROWN BREWING COMPANY, Cincinnati, Ohio. Filed June 19, 1922.

24,779.—*Title:* "DEXTER'S MILK BREAD." (For Bread.) THE DEXTER BAKING COMPANY, Waterbury, Conn. Filed June 20, 1922.

24,780.—*Title:* "DEXTER'S TABLE QUEEN BREAD." (For Bread.) THE DEXTER BAKING COMPANY, Waterbury, Conn. Filed June 20, 1922.

24,781.—*Title:* "LOZENGES NO. 12 IOTHESIN." (For Packages Containing a Medicinal Preparation.) THE DRUG PRODUCTS Co. INC., Long Island City, N. Y. Filed May 26, 1922.

24,782.—*Title:* "PULVOIDS NO. 386 IOBOTE." (For Packages Containing a Medicinal Preparation.) THE DRUG PRODUCTS Co. INC., Long Island City, N. Y. Filed May 26, 1922.

24,783.—*Title:* "LOVE NEST." (For Candy.) THE EUCLID CANDY Co., Cleveland, Ohio. Filed June 21, 1922.

24,784.—*Title:* "FALCONETTE." (For Packages and Boxes Containing Hair Nets.) FALCON PRODUCTS, INCORPORATED, New York, N. Y. Filed June 17, 1922.

24,785.—*Title:* "SUN SHINE MIST." (For a Composition for Cleaning and Polishing Furniture, Floors, Linoleum, and Other Surfaces.) JOHN W. HAMILTON, Troy, N. Y. Filed June 15, 1922.

24,786.—*Title:* "'MAID-WELL.'" (For Superior White Paste.) CHARLES C. HATCHER, doing business under the name of Hatcher Mfg. Co., Chicago, Ill. Filed June 19, 1922.

24,787.—*Title:* "HILLS BROS. COFFEE." (For Coffee.) HILLS BROS., San Francisco, Calif. Filed June 16, 1922.

24,788.—*Title:* "PORTOLA." (For Sardines.) K. HOVDEN Co., Monterey, Calif. Filed June 19, 1922.

24,789.—*Title:* "PORTOLA." (For Sardines.) K. HOVDEN Co., Monterey, Calif. Filed June 19, 1922.

24,790.—*Title:* "PORTOLA." (For Sardines.) K. HOVDEN Co., Monterey, Calif. Filed June 19, 1922.

24,791.—*Title:* "RED TRIANGLE." (For Noodles.) DAVID F. JUE & Co., San Francisco, Calif. Filed June 19, 1922.

24,792.—*Title:* "HARDWARE." (For Clothing.) THEODORE KOTZIN, Los Angeles, Calif. Filed May 4, 1922.

24,793.—*Title:* "SOAK-IN." (For Containers Containing Liniment.) ALFRED J. KRANK, doing business as A. J. Krank Manufacturing Company, St. Paul, Minn. Filed May 3, 1922.

24,794.—*Title:* "SOAK-IN." (For Containers Containing Liniment.) ALFRED J. KRANK, doing business as A. J. Krank Manufacturing Company, St. Paul, Minn. Filed May 3, 1922.

24,795.—*Title:* "LUCKY SELLER 'I LOVE YOU CALIFORNIA'." (For Rhubarb.) A. LEVY & J. ZENTNER COMPANY, San Francisco, Calif. Filed May 25, 1922.

24,796.—*Title:* "NEW IDEAL." (For Cigars.) BENJAMIN LOCKETT, Brooklyn, N. Y. Filed June 16, 1922.

24,797.—*Title:* "BED ROCK." (For Coffee.) THE LOUISVILLE COFFEE COMPANY, Louisville, Ky. Filed June 26, 1922.

24,798.—*Title:* "NUMAID." (For Hosiery.) MAMMOTH HOSIERY MILLS, Philadelphia, Pa. Filed June 19, 1922.

24,799.—*Title:* "SWEETNESS IN EVERY BOX." (For Candy.) MEIER & FRANK Co., Portland, Oreg. Filed June 19, 1922.

24,800.—*Title:* "DAVIS." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Davis Company, Newark, Ohio. Filed June 15, 1922.

24,801.—*Title:* "BARNUM'S SWEET MADE." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Carlton County Creamery Co., Barnum, Minn. Filed June 15, 1922.

24,802.—*Title:* "JELL-WELL." (For a Raspberry Mixture.) THE MILES MFG. Co., INC., Los Angeles, Calif. Filed June 12, 1922.

24,803.—*Title:* "EVEREADY UNIT CELL." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed June 17, 1922.

24,804.—*Title:* "UNMASK YOUR BEAUTY." (For Cosmetic Lotions for Beautifying the Skin and Eradicating Blemishes Thereof.) THOMAS J. NEWLYN, doing business as the Beautypeel Cosmetic Co., El Paso, Tex. Filed May 24, 1922.

24,805.—*Title:* "RED HEAD." (For Apples.) NORTHERN FRUIT COMPANY, Tonasket, Wash. Filed June 19, 1922.

24,806.—*Title:* "HONEY BUNCH." (For Grapefruit.) FRANK LEE OWEN, San Francisco, Calif. Filed May 22, 1922.

24,807.—*Title:* "ENAMELINE." (For Paper.) THE PEERLESS PAPER Co., Dayton, Ohio. Filed November 17, 1921.

24,808.—*Title:* "SUPERIOR." (For Macaroni.) THE PFAFFMANN EGG NOODLE COMPANY, Cleveland, Ohio. Filed May 29, 1922.

24,809.—*Title:* "GOODY-MINTS CANDY." (For Candy.) GEORGE L. RASSIAS, Brooklyn, N. Y. Filed June 24, 1922.

24,810.—*Title:* "REAL SILK HOSE." (For Containers for Hose.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed June 17, 1922.

24,811.—*Title:* "HEMCO TWIN-LITE." (For Plugs or Receptacles for Electric Lamps.) GEORGE RICHARDS & COMPANY, Chicago, Ill. Filed June 17, 1922.

24,812.—*Title:* "PO-REE-KO." (For Receptacles Containing Comestibles, Including Prepared Grapefruit.) HENRY L. SHERMAN, Boston, Mass. Filed June 17, 1922.

24,813.—*Title:* "PRINCIPALLY FROM SAGE BLOSSOMS." (For Honey.) W. P. SOUTHWORTH, doing business as The North American Honey Distributors, Sioux City, Iowa. Filed April 26, 1922.

24,814.—*Title:* "SV." (For Apples.) SPOKANE VALLEY GROWERS UNION, Opportunity, Wash. Filed June 19, 1922.

24,815.—*Title:* "'OLD TAYLOR'." (For Cantaloupes.) THE J. L. TAYLOR CO., Los Angeles, Calif. Filed June 19, 1922.

24,816.—*Title:* "DEL-RICHES BRAND GREEN-CUT STRINGLESS BEANS." (For Cans Containing Stringless Beans.) THE TOWNSEND CO., Selbyville, Del. Filed June 21, 1922.

24,817.—*Title:* "VITAMINIZED FRUIT WAFERS." (For a Vitamine Food Preparation.) VITAMIN FOOD CO., INC., New York, N. Y. Filed June 17, 1922.

24,818.—*Title:* "VEGEX ALMONDS." (For a Vitamine Food Preparation.) VITAMIN FOOD CO., INC., New York, N. Y. Filed June 17, 1922.

24,819.—*Title:* "PHOTOPLAN PAPER." (For Label for Said Paper.) WILLIAMS, BROWN & EARLE INC., Philadelphia, Pa. Filed May 19, 1922.

PRINTS

REGISTERED AUGUST 1, 1922.

6,236.—*Title:* "'THE WRITE GIFT.'" (For Advertising Purposes for Writing Paper.) JAMES MCCASH CECIL, Richmond, Va. Filed May 13, 1922.

6,237.—*Title:* "'U-TELL-'EM, IT'S TAS TELLS." (For Advertising Purposes for Ice Cream.) CITY DAIRY AND ICE CREAM CO., St. Joseph, Mo. Filed June 9, 1922.

6,238.—*Title:* "QUALITY COUNTS." (For Advertising Purposes for Coffee.) HILLS BROS., San Francisco, Calif. Filed June 15, 1922.

6,239.—*Title:* "COFFEE TALKS!" (For Advertising Purposes for Coffee.) HILLS BROS., San Francisco, Calif. Filed June 15, 1922.

6,240.—*Title:* "A REFLECTION OF GOOD COFFEE." (For Advertising Purposes for Coffee.) HILLS BROS., San Francisco, Calif. Filed June 15, 1922.

6,241.—*Title:* "FIRST—LAST— AND ALWAYS." (For Advertising Purposes for Coffee.) HILLS BROS., San Francisco, Calif. Filed June 15, 1922.

6,242.—*Title:* "YUM YUM." (For Advertising Purposes for a Candy Specialty.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed June 19, 1922.

6,243.—*Title:* "MALLO MILK BAR." (For Advertising Purposes for a Chocolate-Covered Almond and Nougat Bar.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed June 19, 1922.

6,244.—*Title:* "GREENE LINE BIG FIVE TAPS." (For Advertising Purposes for Sole Leather.) MT. UNION TANNING-EXTRACT CO., Mount Union, Pa. Filed June 13, 1922.

6,245.—*Title:* "WHAT IS THE MATTER WITH YOUR HAIR?" (For Advertising Purposes for Shampoo.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed June 22, 1922.

6,246.—*Title:* "PICCADILLY INK." (For Advertising Purposes for Said Piccadilly Ink.) PICCADILLY INK COMPANY, Baltimore, Md. Filed June 7, 1922.

6,247.—*Title:* "DUCK CLOTHING." (For Advertising Purposes for White Duck Clothing.) THE JAMES E. RICHARDS COMPANY, Dayton, Ohio. Filed June 21, 1922.

6,248.—*Title:* "SIMON'S POCKET-JERKIN." (For Advertising Purposes for Our Leather Woolen-Cloth-Lined Vest, with Pockets.) THE SIMON COAT CO., Boston, Mass. Filed May 17, 1922.

6,249.—*Title:* "CERTIFICATE OF PURCHASE." (For Advertising Purposes for Freckle Cream.) SUNNY SUSAN LABORATORIES, INC., Buffalo, N. Y. Filed May 24, 1922.

6,250.—*Title:* "SUNNY SUSAN FRECKLE CREAM." (For Advertising Purposes for Freckle Cream.) SUNNY SUSAN LABORATORIES, INC., Buffalo, N. Y. Filed May 24, 1922.

6,251.—*Title:* "DR. PAUL WETZEL'S ELASTIC-ARCH-GRIPPER." (For Advertising Purposes for a Circular Elastic Arch Support.) PAUL WETZEL, New Rochelle, N. Y. Filed Apr. 28, 1922.

6,252.—*Title:* "SPEARMINT THE NEW TOOTH PASTE FOR CHILDREN—AND FOR GROWN-UPS, TOO!" (For Advertising Purposes for Tooth Paste.) WRIGLEY PHARMACEUTICAL CO., Philadelphia, Pa. Filed May 19, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

IN RE NATHAN, JR.

No. 1414. Decided April 3, 1922.

1. APPLICATION—DIVISIONAL—LIMITATION AS TO TIME OF FILING.

Where N. almost seven years after the granting of a patent to A. filed a divisional application divided out of his earlier application that was copending with the application of A., *Held* that the case was clearly within the rule announced in *Chapman* v. *Wintroath* (252 U. S., 126.)

2. SAME—SAME—SAME.

Where an applicant delays more than two years in filing a divisional application after the grant of an intervening patent for the same invention, *Held* that the limitations of section 4897, R. S., as to the time for filing apply.

Mr. Albert F. Nathan pro se.

Mr. T. A. Hostetler for the Commissioner of Patents.

VAN ORSDEL, *J.:*

This appeal is from the decision of the Commissioner of Patents, refusing to allow a claim in a divisional application for a patent relating to a typewriter-carriage control. It is unnecessary to consider the mechanism of the invention, since the case turns upon a single question of law.

Nathan filed his original application September 2, 1905. On February 23, 1906, one Anderson filed an application for an invention embodying the subject matter of the claim here involved, on which a patent was granted December 15, 1908. On November 26, 1906, Nathan was required to cancel a claim in his original application which, with a slight modification, was the same as the present divisional claim. His divisional application was filed on March 31, 1915, almost seven years after the issue of the Anderson patent. A patent was granted Nathan upon the original application, from which the claim had been cancelled on April 27, 1915; hence, the original case and the divisional case were copending during the period of about one month. The claim which was originally set out in the divisional application, was identical in every particular with claim 14 in the original application, which had been cancelled pursuant to a ruling of the Examiner.

The Examiner rejected the claim in the divisional application for the reason that it specified a mechanically-returned carriage, which he held was not shown in the drawings accompanying the original application. Nathan then amended by deleting the reference to a mechanically-returned carriage. The claim was then rejected by the Primary Examiner as unpatentable over the Anderson patent. The position of the Examiner was in turn sustained by the Board of Examiners-in-Chief, and the Commissioner.

It is urged by appellant, that the Anderson application was copending with his application, and had been for a period of nine months, at the time he was required by the Examiner to cancel the claim in question; that the cases continued copending for over two years, or until the issue of the Anderson patent, and that during all that period, the Patent Office had knowledge of the pending Anderson application without giving appellant any notice which would have enabled him to present a divisional application containing the present claim. Inasmuch as appellant had two years within which to file his divisional application after the issue of the Anderson patent (R. S. sec. 4897), it is difficult to understand how he could have been prejudiced by this alleged negligence on the part of the patent officials.

It is urged that the claim in the divisional application was not only disclosed, but asserted in the original application; and on this theory appellant seeks to distinguish this case from one where a patentable element had been disclosed, but not claimed, in the original application. By this distinction, appellant seeks to escape the limitation of two years, within which period a divisional application may be filed after the issue of an intervening patent. But the present amendment claim did not appear in the original application, however, if it had, we think the contention would be unsound. The purpose of the limitation of two years is to require prompt action after the intervening patent has become public, and we perceive no difference, so far as the application of the period of limitation is concerned, between such a case and one where the claim to the invention first appears in a divisional application.

No excuse is offered for the failure to file the divisional application within two years after the Anderson patent was issued. This brings the case clearly within the rule announced in *Chapman* v. *Wintroath* (252 U. S., 126; 272 O. G., 913).

The decision of the Commissioner of Patents is affirmed.

U. S. Circuit Court of Appeals—Eighth Circuit.

EBERLE ET AL. *v.* STIX, BAER & FULLER DRY GOODS CO. ET AL.

Decided March 25, 1922.

[280 Fed. Rep., 117.]

PATENTS—No. 1,304,951. FOR SWING, HELD ANTICIPATED. The Eberle patent, No. 1,304,951, for a child's swing, *Held* anticipated, the patentee having combined old elements in substantially the same way, for the same purpose, as was done by others, and having produced no greater or better or different results.

APPEAL from the District Court of the United States for the Eastern District of Missouri; Jacob Trieber, judge.

Suit by John A. Eberle and others against the Stix, Baer & Fuller Dry Goods Company and others for infringement of Patent No. 1,304,951, issued May 27, 1919, to John A. Eberle, for an improvement in swings. From a judgment dismissing the bill, plaintiffs appeal. Affirmed.

Mr. Howard G. Cook for the appellants.

Mr. Samuel W. Banning for the appellees.

Before CARLAND and LEWIS, Circuit Judges, and POLLOCK, District Judge.

LEWIS, *Cir. J.*:

This is a patent infringement case brought by Eberle, the patentee and his licensee, appellants. The defense of anticipation was sustained and the bill dismissed; and with this we fully agree. The mechanical device is a child's swing, and the one and only claim runs thus:

> A child's swing comprising a single rigid rectangular seat frame, a rectangular fabric pocket having its upper margins folded over and secured to said rigid rectangular seat frame, suspension members secured to the corners of said rigid rectangular seat frame, and a rigid rectangular spreader separating said suspension members at points above said rigid rectangular seat frame, the corners of said spreader corresponding to the corners of said rigid rectangular seat frame.

But before Eberle, Thompson 58,510, Higham 472,351, Davidson 736,826, Carley 1,063,956, and Blain 1,104,609, each shows a single rigid rectangular seat frame, in suspended swinging baby jumpers or swings; Hawk 1,055,975, Patten 1,057,360, Carley and Davidson each shows a fabric pocket seat attached to the seat frames, and in Davidson, Blain and Carley the pocket seats are rectangular, and in Patten the fabric is folded over and secured to the rigid seat frame. All of the earlier patents just noted necessarily show suspension members, in most of them there are four of these members secured to the seat frame, all but Hawk which has three, and in Carley, Blain, Thompson, and Higham rigid spreaders overhead of the suspension members are shown. Nothing new or novel was brought in by Eberle. He used old elements, combined in substantially the same way for the same purpose as was done by those who preceded him, and the results from the use of his swing are no greater, or better, or different, or more easily or cheaply obtained than were the results obtainable from the use of like devices of baby jumpers and child swings disclosed in prior patents above referred to.

Affirmed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

778,739, H. C. Buhoup, Car trucks, suit filed September 19, 1918, U. S. D. C., N. D. Ill. (E. Div.), Doc. 1105, *H. C. Buhoup* v. *American Steel Foundries*. Bill of complaint dismissed February 21, 1922.

787,714, H. Austin. Lever and quadrant apparatus, suit filed April 12, 1922, U. S. D. C., Colo., Doc. 7330, *Wolf Mineral Process Corporation* v. *Colorado Superior Mining Company*; same, Doc. 7331, *Wolf Mineral Process Corporation* v. *The Smuggler Union Mining Company*.

796,743, T. Sandmeyer, Azo dye and process of making same, suit filed June 30, 1922, U. S. D. C., Mass., Doc. 1740 Eq., *National Aniline & Chemical Co., Inc., et al.* v. *New England Aniline Works, Inc., et al.*

803,089, C. H. Bigelow, jr., Hanger for building purposes, suit filed September 25, 1920, U. S. D. C., N. D. Ill. (E. Div.), Doc. 1558, *The Dayton Malleable Iron Co.* v. *Olney J. Dean & Company*. Perpetual injunction against defendant May 25, 1922.

809,582, 942,932, H. Robinson, Machine for peeling vegetables, suit filed March 24, 1922, U. S. D. C., N. D. Ill. (E. Div.), Doc. 2636, *Imperial Machine & Foundry Corporation* v. *Albert Pick & Company*. Preliminary injunction against defendant as to certain claims May, 8, 1922; same, suit filed June 23, 1916; same, Doc. 672, *Imperial Machine Company et al.* v. *Maxim Manufacturing Company*. Permanent injunction issued against defendant February 27, 1922.

821,123, C. F. Roper, Filling-exhaustion-indicating mechanism for looms, suit filed February 12, 1915, U. S. D. C., Mass., Doc. 612 Eq., *Draper Co.* v. *The Stafford Co.* Final decree in favor of defendant entered April 28, 1922.

831,501, H. M. Dickinson, Candy-pulling machine, suit filed December 8, 1921, U. S. D. C., N. D. Ill. (E. Div.), Doc. 2515, *Herbert L. Hildreth* v. *Midwest Candy Company*. Defendant enjoined and restrained until further order of court February 28, 1922.

842,263, F. Spalding, Micrometer calipers, suit filed June 17, 1922, U. S. D. C., S. D. Ohio, Doc. 265, *Construction Machinery Company* v. *Sport Hardware Co.*

908,608, J. V. Pugh, Wheels for motor vehicles; 1,030,428, same, Process for manufacture of wire-spoked rims; 1,125,498, T. I. Duffy, Demountable wheels; 1,166,130, H. A. House, jr., Locking devices for hubs; suit filed May 3, 1922, U. S. C. C. A., 4th C. Va., Doc. 1997, *Wire Wheel Corporation of America* v. *Budd Wheel Corporation*.

942,932. (See 809,582.)

958,478, W. E. Davey, Process of reinforcing trees, suit filed June 30, 1922, U. S. D. C., N. D. Iowa, Doc. 59, *The Davey Tree Expert Company* v. *H. T. Smice*; same, suit filed July 7, 1922, U. S. D. C., S. D. Iowa, Doc. 4069, *Davey Tree Expert Company* v. *A. B. Kauffman*.

983,994. (See 984,032.)

984,032, J. B. Saeger, 983,994; N. T. Harrington, Carburetors, suit filed March 29, 1916, U. S. D. C., N. D. Ill. (E. Div.), Doc. 629, *J. B. Saeger, A. L. Peyton, et al.* v. *Stewart-Speedometer Corporation*. Writ of injunction issued February 21, 1922; same, suit filed April 5, 1922, same, Doc. 2653, *J. Saeger, C. S. Thomas, et al.* v. *Gyme, Kingston & Company*. Injunction pendente lite issued May 1, 1922.

986,148, 1,081,592, 1,081,897, 1,116,398, P. Ehrlich and A. Bertheim; Re. 13,843 (original 1,053,300), G. Korndörfer and B. Reuter, Medicinal preparations, suit filed July 1, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 366-C, *Farbwerke vormals Meister Lucius & Bruning* v. *Diarsenol Co. Inc. & F. White*.

999,929, P. M. Wege; 1,180,810, A. P. White, Metallic structures, suit filed February 5, 1921, U. S. D. C., S. D. Ohio, Doc. 220, *The Safe Cabinet Company* v. *The Globe Wernicke Company*. Decree dismissing bill entered June 15, 1922.

1,030,428. (See 908,608.)

1,081,592. (See 986,148.)

1,081,897. (See 986,148.)

1,112,643, L. Muther, Method of and device for setting eyelets in flexible material, suit filed August 19, 1916, and May 10, 1922, U. S. D. C., Mass., Doc. 743 Eq., *L. Muther* v. *United Shoe Machinery Co.* Interlocutory decree for perpetual injunction entered May 10, 1922.

1,116,398. (See 986,148.)

1,125,498. (See 908,608.)

1,129,520, K. C. Randall, S. W. Farnsworth, and C. Le G. Fortescue, Insulating bodies for electrical apparatus, suit filed July 8, 1922, U. S. D. C., W. D. N. Y., Doc. 396 Eq. C., *Westinghouse Electric & Manufacturing Co.* v. *Lapp Insulator Company, Inc.*

1,166,130. (See 908,608.)

1,177,688, C. D'Iorio, Coats, suit filed January 25, 1922, U. S. D. C., S. D. Ohio, Doc. 249, *C. D'Iorio and J. E. Rappaport* v. *L. Baeffeky*. Consent decree entered June 24, 1922, finding patent valid and infringed.

1,180,810. (See 999,929.)

1,216,421, E. R. Draver, Shock absorber for cantilever springs, suit filed June 27, 1922, U. S. D. C., S. D. Calif. (N. Div.), Doc. B-81 Eq., *The Marvel Shock Absorber Co. and Emil R. Draver* v. *Ragsdale Shock Absorber Company*.

1,221,059, C. R. Jones; Des. 48,207, W. E. Surface, Hanger for light-reflecting bowls, suit filed March 30, 1918, U. S. D. C., N. D. Ill. (E. Div.), Doc. 1035 *Faries Manufacturing Company* v. *A. C. Dallas & Son, Inc.* Perpetual injunction issued April 3, 1922.

1,261,746, H. Grob, Devices for mounting dynamo for railway lighting, suit filed June 29, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 393-C, *The Safety Car Heating and Lighting Company* v. *United States Light & Heat Corp. & Frank White*; same, suit filed June 30, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 394, *T. W. Miller, as Alien Property Custodian*, v. *U. S. Light & Heat Corp. & Frank White*.

1,296,782, F. E. Ellis, Printer's blanket, suit filed June 26, 1922, U. S. D. C., Mass., Doc. 1737 Eq., *F. E. Ellis et al.* v. *F. E. Paige*.

1,307,733, 1,307,734, A. V. Gullborg; Re. 14,667 (original 1,201,414), F. D. Winkley, Lubricating apparatus, suit filed April 21, 1922, U. S. D. C., N. D. Ill. (E. Div.), Doc. 2693, *The Bassick Mfg. Company* v. *Frochling Mfg. Co.* Injunction pendente lite issued May 1, 1922.

1,307,734. (See 1,307,733.)

1,313,022, I. E. Sexton, Riveted receptacles, suit filed June 26, 1922, U. S. D. C., Mass., Doc. 1738 Eq., *I. E. Sexton* v. *Dover Stamping & Mfg. Co.*

1,333,431, R. J. McComb, Manufacture of splice bars for compromise rail joints, suit filed June 20, 1920, U. S. D. C., N. D. Ill. (E. Div.), Doc. 1488, *The Q & C Company* v. *J. V. Westcott*. Defendant enjoined from infringing Letters Patent February 28, 1922.

1,343,941, J. T. Stoney, Method of making a mold, suit filed November 30, 1921, U. S. D. C., S. D. Ohio, Doc. 245, *J. E. Stoney* v. *The Hamilton Foundry and Machine Company*. Bill dismissed without prejudice July 8, 1922.

1,365,803, F. W. Storck, Envelope-sealing machines, suit filed April 21, 1922, U. S. D. C., Mass., Doc. 1079 Eq., *Standard Envelope Sealer Mfg. Co.* v. *Graywood Mfg. Co.* Final decree entered April 21, 1922.

1,390,662, A. E. Wittig, Operating mechanism for signals and other devices, suit filed January 28, 1921, U. S. D. C., N. D. Ill. (E. Div.), Doc. 2562, *The Folberth Auto Speciality Company* v. *Mayo-Skinner Manufacturing Company*. Bill dismissed without prejudice February 28, 1922.

1,412,318, I. E. Stamets, Combination desk pads, suit filed June 27, 1922, U. S. D. C., S. D. Calif. (S. Div.), Doc. G-7 Eq., *Robert Dale Company* v. *G. H. Deaton & Co., M. J. Kennedy, et al.*

Design 48,207. (See 1,221,059.)

Designs: 48,560, 51,144, 51,145, 53,309, 53,454, 55,187, 55,480, W. Luttringhaus; 55,419, D. H. Eley and T. H. Ryan; Designs for percolators, etc., suit filed July 7, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 742, *Aluminum Goods Manufacturing Company* v. *The Buckeye Aluminum Company*.

Design 51,144. (See Des. 48,560.)
Design 51,145. (See Des. 48,560.)
Design 53,309. (See Des. 48,560.)
Design 53,454. (See Des. 48,560.)
Design 55,187. (See Des. 48,560.)
Design 55,480. (See Des. 48,560.)
Design 55,419. (See Des. 48,560.)
Reis. 13,848 (original 1,053,300). (See 986,148.)

Reis. 14,049 (original 1,110,730), J. G. Tufford, Resilient heels, suit filed February 16, 1921, U. S. D. C., N. D. Ill. (E. Div.), Doc. 1993, *The I. T. S. Rubber Company* v. *United States Rubber Company.* Perpetual injunction February 28, 1922.

Reis. 14,667. (See 1,307,733.)

Trade-mark 124,257, Mason, Au & Magenheimer Confectionery Manufacturing Co., Trade-mark for chocolates, suit filed April 26, 1922, U. S. D. C., N. D. Ill. (E. Div.), Doc. 2695, *Mason, Au & Magenheimer Confectionery Mfg. Co.* v. *Farley Candy Company.* Permanent injunction issued May 16, 1922.

Label 16,426, I. Rokeach & Sons, Inc., Scouring powders, suit filed February 24, 1922, U. S. D. C., N. D. Ill. (E. Div.), Doc. 2603, *I. Rokeach & Sons, Inc.* v. *P. Tannenbaum et al.* Preliminary injunction issued February 28, 1922.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 8, 1922.

The Diastatic Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Dimex Malt Extract Co., Inc., 71 Reservoir Avenue, Port Jervis, N. Y., for registration of a trade-mark and trade-mark registered October 20, 1914, No. 100,523, to the Diastatic Malt Extract Co., Room 1006, Hearst Building, Chicago, Ill., and a notice of such declaration sent by registered mail to said Diastatic Malt Extract Co., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Diastatic Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 11, 1922.

The I. C. Hunsicker & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Pittsburgh Dry Goods Company, No. 935 Penn Avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered January 17, 1893, No. 22,342, to The I. C. Hunsicker & Co., Fourth and Washington Streets, Reading, Pa., and a notice of such declaration sent by registered mail to said I. C. Hunsicker & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said I. C. Hunsicker & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 12, 1922.

Rainbow Ale Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Keystone Fruit Products Company, of 106 West Second Street, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered February 26, 1907, No. 60,913, to the Rainbow Ale Company, of 34 Madison Avenue, Atlanta, Ga., and a notice of such declaration sent by registered mail to said Rainbow Ale Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Rainbow Ale Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C. July 13, 1922.

Monte W. Burd, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Marshall Field & Company, of 219 West Adams Street, Chicago, Ill., and Hunter Mfg. & Com. Co., of 58 Worth Street, New York, N. Y., for registration of certain trade-marks and trade-marks registered March 20, 1906, No. 50,537, and February 14, 1905, No. 44,166 to Monte W. Burd, of 631 West Main Street, Louisville, Ky., and a notice of such declaration sent by registered mail to said Monte W. Burd at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Monte W. Burd, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C. July 13, 1922.

Harry Pennington, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of William F. Huff, 1445 West 25th Street, Los Angeles, Calif., for patent and the application of Harry Pennington, 614 Ninth Street, Wichita Falls, Tex., for patent, and a notice of such declaration sent by registered mail to Pennington at his last address of record, 3640 Stratford Avenue, Highland Park, Dallas, Tex., having been returned by the post office undeliverable, notice is hereby given that unless said Pennington, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 21, 1922.

Gilmour Bros. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Cumberland Tobacco Works, Inc., of Nashville, Tenn., for registration of a trade-mark and trade-mark registered Jan. 30, 1894, No. 24,141, to Gilmour Bros. Co., Owensboro, Ky., and because of prima facie evidence in the record to the effect that Gilmour Bros. Co. is no longer in business, notice is hereby given that unless said Gilmour Bros. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Patents Nos. 1,424,750 to 1,425,501.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 301—No. 2. TUESDAY, AUGUST 8, 1922. Price—$5 per year.

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Issue of August 8, 1922.

Patents	752—No.	1,424,750 to No. 1,425,501, inclusive.
Designs	20—No.	61,335 to No. 61,354, inclusive.
Trade-Marks	186—No.	157,444 to No. 157,629, inclusive.
Labels	48—No.	24,920 to No. 24,967, inclusive.
Prints	6—No.	6,253 to No. 6,258, inclusive.
Reissues	3—No.	15,428 to No. 15,430, inclusive.
Total	1015	

Nolan Act—Reciprocity of the Cuban Laws Recognized.

(ORDER No. 2,772.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 1, 1922.

Notice is hereby given that the laws of Cuba are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by section 2 ot the Nolan Act of March 3, 1921 (41 Stat. L., 1313), and that consequently the privileges specified in said section will be extended to citizens of Cuba, subject to the limitation that extensions will not be granted to relieve defaults falling under that section of the act for a longer period than five years, seven months, and nine days.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,340,930.

On July 5, 1922, a decision was rendered that Hoyt Catlin was not the first inventor of the subject matter covered by claims 1 and 2 of his Patent No. 1,340,930, subject, "Controlling device," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,382,601.

On June 29, 1922, a decision was rendered that John A. Cressey was not the first inventor of the subject matter covered by claims 1, 2, and 3 of his Patent No. 1,382,601, subject, "Confections," and no appeal having been taken within the time allowed such decision has become final.

Changes in Classification.

(ORDER No. 2,765.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 240, Illumination (Division XXX), abolish the following subclass, with its definition:

Lanterns—
Projectors—
Dimmers—
45.1. Color screen.

The patents formerly contained in this subclass have been placed in various subclasses in class 240, Illumination.

WM. A. KINNAN,
Acting Commissioner.

Rule 72, as Amended April 17, 1919.

RULE 72. After the completion of the application the Office will not return the specification for any purpose whatever. If applicants have not preserved copies of the papers which they wish to amend, the Office will furnish them on the usual terms.

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Sketches filed to show proposed changes in construction must be in permanent ink. (See Rule 30.) Substitute drawings will not be admitted in any case unless required by the Office.

Renewal of Forfeited Cases.

A petition for the renewal of a forfeited application need not be signed by the inventor or assignee, but may be signed by the attorney.

A power of attorney in the original application authorizing an attorney to transact all business in the Patent Office in connection with the application construed to be of sufficient scope to include the signing of a petition for renewal and the subsequent prosecution of the application. (*Ex parte Apee*, 101 O. G., 1609.)

Remittances to the Patent Office.

Checks should be certified. Cash should be registered; if by ordinary mail at risk of sender. Postage stamps not receivable.

Condition of Applications Under Examination at Close of Business July 29, 1922.

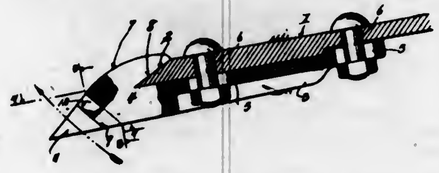
(Total number of applications waiting action, excluding Trade-Mark division, 67,867; Trade-Mark division, 8,304. Oldest new case, May 3; oldest amended, Apr. 18, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	*Jan. 9	*Jan. 12	976
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	Aug. 15	July 21	1,819
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 16	Aug. 19	888
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 1	*May 27	1,436
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 12	Oct. 10	1,141
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Oct. 13	*Mar. 8	1,384
212	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Nov. 2	Nov. 18	2,271
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Apr. 13	*June 17	935
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	June 17	*June 13	1,117
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	*Jan. 27	*Apr. 19	1,042
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 25	*Feb. 28	730
322	12. PIERCE, P. P., Machine Elements	*Jan. 3	*Apr. 10	1,187
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 27	*Apr. 11	1,681
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 24	*Mar. 25	1,195
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 9	Sept. 14	1,732
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Aug. 1	July 28	2,402
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Sept. 13	*Mar. 1	1,399
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	June 15	July 1	2,392
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	June 27	Dec. 22	1,173
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Feb. 20	*Mar. 1	1,542
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Oct. 4	*Mar. 18	911
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Nov. 17	*Mar. 25	660
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	July 20	Nov. 18	811
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 17	*Mar. 20	1,207
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Thrashing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 12	*Apr. 22	413
165	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 7	*Jan. 6	1,065
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 26	Sept. 12	2,058
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 14	Sept. 29	1,693
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Nov. 5	*May 18	641
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 12	*May 8	1,448
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 2	Sept. 23	2,135
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Oct. 3	*May 1	993
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Dec. 7	*Feb. 6	921
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 27	*Mar. 28	560
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 13	*Apr. 26	978
304	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 8	*Feb. 1	1,837
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Sept. 9	Sept. 26	1,852
378	38. IDE, G. B., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 24	Nov. 2	1,744
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 1	June 21	2,138
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 23	Oct. 24	2,529
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Mar. 8	*Mar. 23	793
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Sept. 2	Aug. 6	1,936
282	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 24	Oct. 4	1,149
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 12	Oct. 13	1,376
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Dec. 30	*Feb. 3	1,269
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 26	Dec. 5	1,259
264	47. BAKKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Oct. 24	*Feb. 14	1,216
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	May 3	Apr. 18	2,834
	49.	June 7	June 8	989
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Sept. 12	*Jan. 30	5,812
	Designs	Dec. 5	Dec. 30	2,401
	Labels and Prints	*July 11	*July 22	91

PATENTS

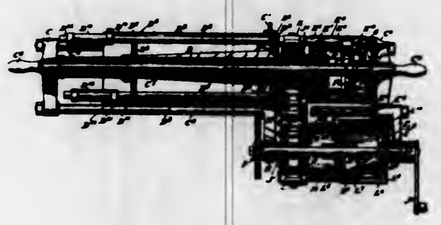
GRANTED AUGUST 8, 1922.

1,424,750. EXCAVATOR PLOWPOINT. CLAYTON O. ANGLEMEYER and FRANK E. PERLBERG, Racine, Wis. Filed Nov. 9, 1920. Serial No. 422,806. 2 Claims. (Cl. 37—56.)



1. A scraper bucket shoe, having a nose provided with a flat face and a chiseled edge tooth, having a rear flattened face in dove-tailed union with the corresponding flattened face of the shoe nose, the dove-tail being tapered in the opposite direction from the cutting strain load put upon the shoe.

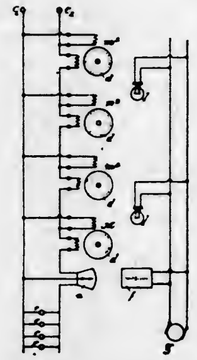
1,424,751. AUTOMATIC RAPID-FIRE MACHINE GUN. FRIEDRICH BANGERTER, New York, N. Y. Filed Nov. 4, 1918. Serial No. 261,023. 32 Claims. (Cl. 89—2.)



13. In a gun of the class described, the combination of a rotatable body carrying a plurality of gun barrels, a travelling magazine comprising a plurality of explosion chambers adapted to align with said barrels, means for holding said explosion chambers rigidly to said barrels and firing the charge, and feeding and charging means adapted to feed and load said explosion chambers while in motion, said feeding and charging means comprising a rotatable cylindrical body carrying the loaded cartridge shells and a rotatable cylindrical body provided with a plurality of charging plungers adapted to move said cartridge shells from the feed body to and into said explosion chambers, and means for both manually and automatically actuating all of said stated means and mechanisms.

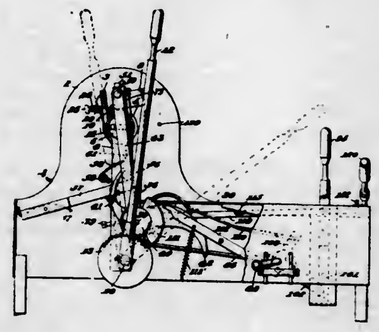
1,424,752. ADJUSTING INTEGRATING ELECTRICITY METERS. OTTO TITUS BLÁTHY, Budapest, Hungary. Filed Nov. 6, 1920. Serial No. 422,321. 4 Claims. (Cl. 175—183.)

4. A method for adjusting electric meters consisting in providing the rotary parts of the meters with marks arranged at regular intervals in a circle; illuminating said meters while under test with electric lamps, the luminous intensity of which fluctuates according to the undulations of the feeding current; feeding said lamps by an alternating current, the frequency of which is in such proportions to the number of marks on the rotary parts of



the meters, that at a given speed of the meters, the number of marks on the rotary part of the meter passing a given point is in predetermined proportion to the number of reversals of the current feeding said lamp; and adjusting the meters until the marks on their rotary parts appear to be stationary.

1,424,753. VERTICAL LOOSE-LEAF-BINDING MACHINE. HENRY M. CRIPPEN, Athens, Ohio, assignor to Henry M. Crippen, William N. Alderman, Field Scott, and Harley H. Haning, all of Athens, Ohio. Filed June 9, 1921. Serial No. 476,272. 18 Claims. (Cl. 129—7.)



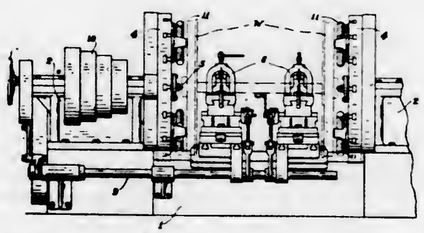
1. In a loose leaf binding machine, the combination with a horizontally disposed anvil, a vertically recipro-

cating series of punches co-operating with said anvil mounted to swing bodily laterally, and a stripper for the punches, of a vertically disposed series of receiving pins to one side of said anvil, and operating mechanism to reciprocate the punches, move them over the filing pins and then actuate the stripper towards the filing pins.

7. In a loose leaf binding machine, the combination with the punching and stripper mechanism, of a transverse fixed axle bar therebelow and having a flat upper side provided with upwardly extending base-engaging pins, and a series of sheet-receiving pins having a base flat on its under side and apertured to receive the said base-engaging pins; the flat under side of the base having a cushioning material affixed thereto.

9. In a loose leaf binding machine, the combination with the punching and transfer mechanism and receiving pins, of a sheet carrier extending at its inner end alongside the lower ends of the pins, mechanism for elevating both ends of the carrier simultaneously, and means for throwing out of action the said elevating mechanism for both of said ends during the punching and transferring operation, whereby the carrier will remain stationary.

1,424,754. DRIVING MECHANISM FOR WHEEL LATHES. JAMES K. CULLEN, New York, N. Y., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed July 23, 1920. Serial No. 398,472. 24 Claims. (Cl. 82—8.)

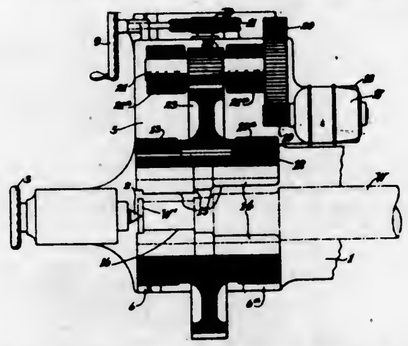


1. In a metal working machine, the combination of a rotary work holder, a plurality of driving elements mounted thereon, a wedge movable relative to each driving element for forcing the elements against the work, a separate power means for operating each wedge, and means for rotating the holder.

10. In a metal working machine, the combination of a rotary spindle and a work holder mounted on one end thereof, a plurality of driving elements mounted on the work holder, means movable relative to each driving element for forcing the elements against the work, power means comprising a cylinder having a resiliently operated piston therein for operating each of the first means, means comprising a conduit extending through the spindle and into communication with the cylinders for providing fluid pressure thereto, and means for rotating the holder.

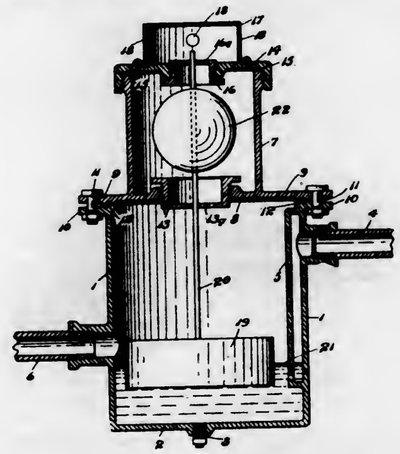
1,424,755. AXLE-MILLING MACHINE. JAMES K. CULLEN, New York, N. Y., and WILLARD T. SEARS, Montclair, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 2, 1921. Serial No. 441,847. 15 Claims. (Cl. 90—15.)

1. In a milling machine, the combination of a base, means thereon for rotatably supporting one end of a piece of work, a cutter support, an internal milling cutter rotatably mounted on the support and having internal cutting teeth longitudinally therealong, the said teeth extending radially inward to different distances along the cutter and being adapted to surround the work, means for moving the cutter toward and from the work,



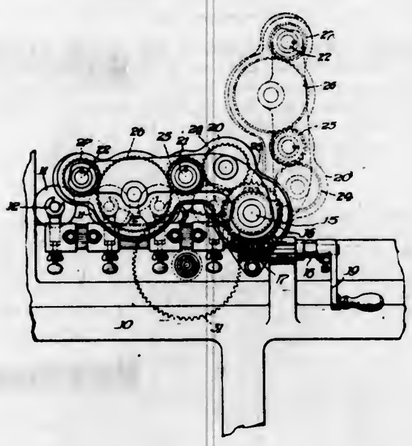
and means for rotating the cutter whereby to mill stepped cylindrical portions of different diameters on the work piece.

1,424,756. AIR VENT AND VACUUM SEAL. CHARLES V. DEAN and CHAUNCEY A. SIMONDS, Grand Rapids, Mich. Filed Mar. 1, 1920. Serial No. 362,411. 4 Claims. (Cl. 137—122.)



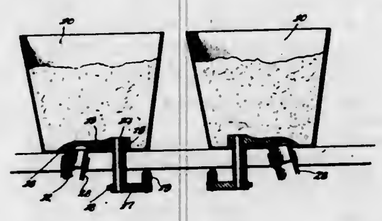
1. In a device of the character described, comprising a lower main chamber member having sides and bottom, an outlet pipe at one side thereof a distance above the bottom, an inlet pipe leading therein adjacent the upper edges of the member, said member being provided with a passage leading from said inlet pipe to a point a distance below the plane of the outlet pipe, a second and upper chamber member located above the first member and closing the upper end thereof and likewise having sides and bottom, the bottom thereof forming the closure to the lower member, a valve seat located in the bottom of the upper member, said valve seat having a passage therethrough connecting the interiors of the two members, a cap closing the upper end of the upper member, a second valve seat located in said cap and likewise having a passage therethrough, a rod passing downwardly through and guided by said valve seats, a float attached to the lower end of the rod adapted to be supported by water in the lower portion of the main member, and a spherical ball valve attached to the rod between the two valve seats, substantially as described.

1,424,757. PRINTING PRESS. EDWARD F. DUDLEY, Oak Park, Ill., assignor to The Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 16, 1918. Serial No. 217,692. 9 Claims. (Cl. 101—358.)



1. In a printing press, the combination of a distributing roll for direct contact with an inking roll, means for vibrating the same, and means for moving said distributing roll from its normal operative contacting position with respect to the inking roll without changing the operative relationship between the distributing roll and its vibrating means.

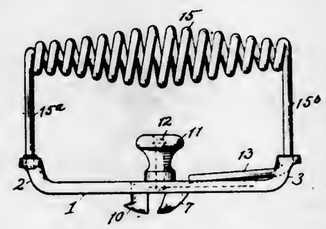
1,424,758. SANDING DEVICE FOR VEHICLES. WILLIAM L. FOURNIER, Seattle, Wash. Filed Jan. 21, 1922. Serial No. 530,866. 4 Claims. (Cl. 291—28.)



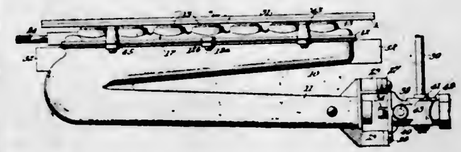
1. The combination with a wheeled vehicle; of a sand receptacle positioned adjacent one of the vehicle wheels and provided with a delivery aperture in its bottom, a channel leading from said aperture and adapted to conduct sand from the receptacle into the path of the wheel, a shutter for said aperture, a pivot for said shutter revolubly mounted in the body of said vehicle, an arm on said pivot, a spring for holding said shutter in closed position, and means connected with said arm to open the shutter.

1,424,759. SADIRON HOLDER. SAMUEL H. GIBSON, Cleveland, Ohio, assignor to The Fanner Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 7, 1919. Serial No. 302,554. 5 Claims. (Cl. 68—26.)

1. A sad iron holder comprising a base portion and handle formed as a coil, upright members securing the handle to the base, said upright members and hand engaging portion being formed from a single and continuous piece of wire, a latch member carried by the base, said wire having an extension which engages the latch to hold it in position.

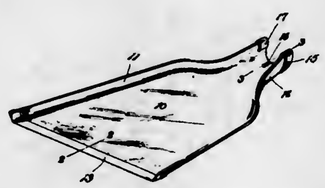


1,424,760. BURNER FOR GAS FIRES. JOHN H. GRAYSON, Athens, Ohio, assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio, a Corporation of Ohio. Filed May 3, 1921. Serial No. 466,409. 15 Claims. (Cl. 158—104.)



5. In a burner construction for natural gas and for artificial gas, a plurality of grids, a mixing tube, a manifold between the grids and the mixing tube, having a cross-sectional area at least as large as the sum of the effective apertures of the grids, means for constricting the said cross-sectional area and a gas admission mechanism having a variable orifice.

1,424,761. DUSTPAN. JOHN A. HALL, Union, N. H., assignor of one-half to Henry A. Townsend, Milton Mills, N. H. Filed Apr. 27, 1921. Serial No. 464,869. 5 Claims. (Cl. 65—62.)

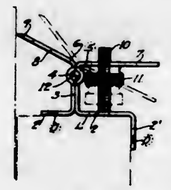


1. A dust pan including a fibrous body reduced at one end portion to provide a channel shaped handle, and a retaining spring embracing the handle and provided with coacting jaws lying within the handle.

1,424,762. SASH LOCK. AUGUST J. HANKE, St. Louis, Mo. Filed Mar. 5, 1921. Serial No. 450,075. 1 Claim. (Cl. 292—212.)

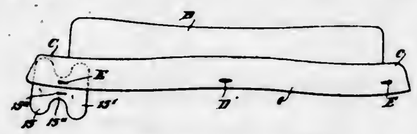
In combination with a pair of window sashes, a sash lock mounted on the lower sash, said lock comprising a

bracket bent from a single piece of flat metal and having a base and an upright portion with a loop in its upper end, a locking plate carrying a stop member terminating in prongs adjacent the upper sash, the locking plate



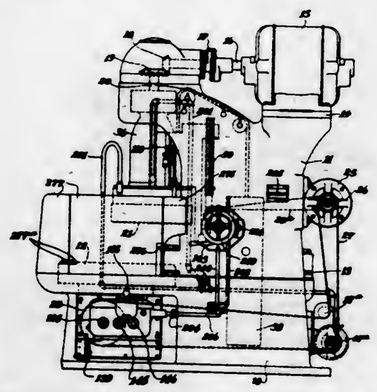
being pivotally mounted in the loop of the bracket, and means engaging the underside of the locking plate for moving the stop member into or out of engagement with the upper sash.

1,424,763. NECKTIE-KNOT RETAINER FOR COLLARS. WILLIAM KARL and HEINRICH KARL, Jersey City, N. J. Filed Mar. 24, 1921. Serial No. 455,057. 1 Claim. (Cl. 2—71.)



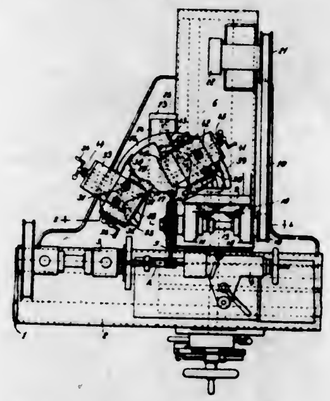
A necktie knot retainer comprising a stiff blank adapted to fit in the front portion of a collar and having a button hole in its lower edge portion intermediate its lateral edges to receive a collar button therethrough for supporting the retainer, and having an upwardly flaring recess in its upper edge forming a seat through which the knot of a necktie may rest, the flaring portion of the recess being adapted to accommodate the upper corners of the knot without compressing the same.

1,424,764. SURFACE GRINDER. CARROLL KNOWLES, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 7, 1921. Serial No. 443,298. 20 Claims. (Cl. 51—131.)



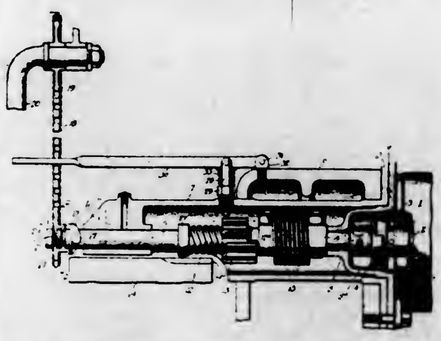
1. A surface grinding machine comprising in combination, a base, a work-carrying table thereon, a vertically mounted wheel spindle, a wheel on said spindle adapted to engage work on said table, a horizontally mounted motor for rotating said wheel spindle, and driving connections between said motor and spindle comprising a pair of bevel gears and a sliding connection whereby said wheel spindle may be rotatably connected to said motor with maximum flexibility and adjustment.

1,424,765. WHEEL-DRESSING MECHANISM. ANDERS E. LARSSON, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 16, 1918. Serial No. 222,929. 5 Claims. (Cl. 125—11.)



1. A mechanism for dressing the grinding wheel of a grinding machine, comprising a carrier slide movable forward and backward along lines parallel to the central plane of the wheel, a slide adjustable about an axis normally approximately tangent to the periphery of the wheel and mounted on the carrier slide, said second slide being movable to either side of the center line thereof and movable toward and from the wheel along lines at an angle to the lines of movement of the carrier slide, and means on said latter slide permitting a dressing tool to engage and dress a grinding wheel along a line at right angles to the direction of movement of said latter slide.

1,424,766. ENGINE STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Mar. 20, 1919. Serial No. 283,779. 14 Claims. (Cl. 74—7.)



1. An engine starter device including a driving member normally disengaged from a part of the engine to be started and arranged when operated to be automatically engaged therewith, and power driving means and hand-operated driving means adapted to cooperate separately therewith, said hand-operated means being adapted when operated to be automatically connected with such member.

1,424,767. DRIVE BELT. FREDERICK MESINGER, New York, N. Y. Filed Sept. 3, 1919. Serial No. 321,321. 9 Claims. (Cl. 74—64.)



1. A drive belt comprising inner rigid links carrying pivot pins, outer flexible links received about the pivot ends, and reenforcing means for the outer flexible links having parts extending in spaced relation about the pivot pins, there being an intermediate layer of the flexible material of the outer links lying between the pivot pins and said parts.

1,424,768. LINK BELT. FREDERICK MESINGER, New York, N. Y. Filed Sept. 23, 1921. Serial No. 502,670. 5 Claims. (Cl. 74—64.)



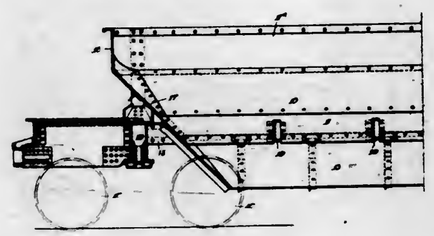
3. A link belt comprising inner links having bosses thereon and provided with enlarged heads at their outer ends, and outer links of compressible material having openings therein of substantially the same diameter as said bosses and adapted to be forced over said heads and pivotally received upon said bosses.

1,424,769. HYSTERESIS POWER TRANSMITTER AND BRAKE FOR PHONOGRAPH MOTOR MECHANISMS. MONTFORD MORRISON, Chicago, Ill. Filed Sept. 5, 1916. Serial No. 118,441. 2 Claims. (Cl. 172—239.)



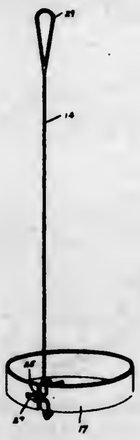
1. In an apparatus of the class described, a driving shaft carrying an armature of hysteretic material, a driven shaft carrying a field in juxtaposition to the field piece in such manner that the magnetic flux of the field establishes a connection therebetween, a normal load connected to the driven shaft of such magnitude as to cause slip between the armature and field, causing hysteresis torque between the armature and field, and as to cause the driven shaft to be driven at a constant speed independent of speed fluctuations in the movement of the field piece, means interposed between the field piece and armature adapted to absorb power, and means adapted to vary the relative positions of the armature, the field piece and the means interposed therebetween.

1,424,770. RAILWAY CAR. JOHN O. NEIKIRK, Lombard, Ill., assignor to Rodger Ballast Car Company, Chicago, Ill., a Corporation of Maine. Filed May 3, 1920. Serial No. 378,384. 2 Claims. (Cl. 105—250.)



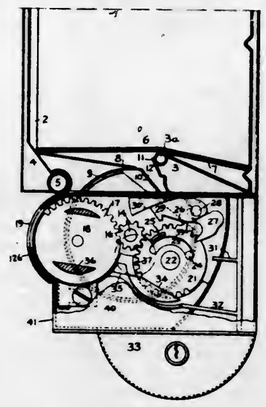
1. In a railway car, a sill structure in which there are only two longitudinally extending sills, said sills being located outside of the truck wheels and between the normal positions of the regular center sills and side sills, said two longitudinally extending sills taking the vertical load and the pulling and buffing strains.

1,424,771. HOSE-LEG SUPPORTER. HERBERT B. NEWTON, Brookline, Mass. Filed Aug. 12, 1921. Serial No. 491,675. 2 Claims. (Cl. 241—6.)



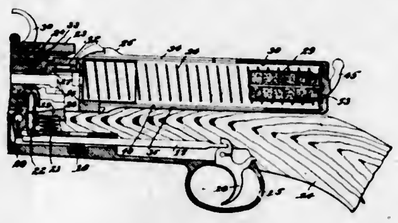
1. A hose leg supporter comprising a standard formed to extend beside a portion of a human leg above the ankle, and provided at one end with hose leg-engaging means, and at its opposite end with strap-engaging means and with a coupling member inseparably attached to said means, and a strap adjustably connected at one end portion with the engaging means, and having a free end provided with a complemental coupling member, the interengagement of said coupling members converting the strap into a band adapted to loosely embrace the wearer's leg immediately above the ankle, the said strap-engaging means, and the coupling attached thereto, preventing displacement of the standard lengthwise of the band.

1,424,772. DISPENSING MACHINE. PHILIP D. PARSONS, Philadelphia, Pa., assignor to Scott Paper Company, a Corporation of Pennsylvania. Original application filed Sept. 10, 1920, Serial No. 409,348. Divided and this application filed Mar. 9, 1922. Serial No. 542,245. 6 Claims. (Cl. 211—8.)



1. In a dispensing cabinet, a case providing a compartment having a shelf at the bottom and extending part way across from the rear to support articles such as paper towels, combined with a rotary ejector having a throat opening for receiving a tab of the towels to be dispensed, hand operable means for imparting a rotary action to the ejector for the greater portion of a revolution, and a spring for returning the ejector to initial position with its throat opening directed upward.

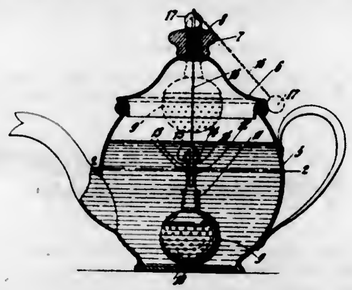
1,424,773. FIREARM. OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 2, 1920. Serial No. 407,761. 31 Claims. (Cl. 42—3.)



1. A gun comprising a receiver, a bolt adapted to reciprocate longitudinally in the receiver, the bolt having a laterally extending portion passing outwardly through a slot in the receiver, a shutter in the receiver for closing said slot, recoil mechanism within said shutter, and means on said shutter engaged by said recoil mechanism to retain said shutter in adjusted position.

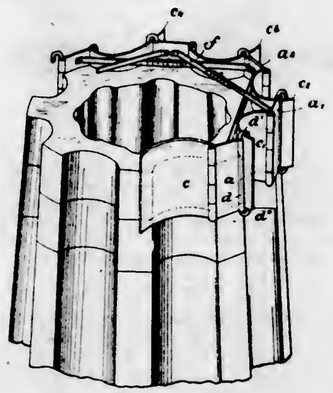
1,424,774. ADJUSTABLE CONTAINER FOR TEAPOTS. HERMAN PEARL, Elmira, N. Y. Filed Oct. 29, 1921. Serial No. 511,319. 3 Claims. (Cl. 53—3.)

1. In combination with a tea pot or the like having a cover provided with an opening, a foraminous container for the material to be submerged in the liquid in the pot, a flexible element for suspending said container disposed through the opening in the cover, and means adapted to be engaged through said opening, when the suspending element is drawn therethrough to elevate the container, to retain said container in its elevated position and in association with said cover, said means



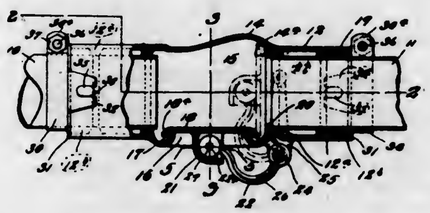
being constructed for disengagement from said cover by pressure exerted by the fingers laterally of said openings without elevation of said means.

1,424,775. MOLD FOR BUILDING CHIMNEYS OF REENFORCED CONCRETE. JACQUES QUOST, Paris, France. Filed June 22, 1920. Serial No. 390,977. 6 Claims. (Cl. 25—124.)



1. A mold for building chimneys or other similar structures made up of elements each comprising a member of constant size and a member of which the size of the operative part varies substantially as described.

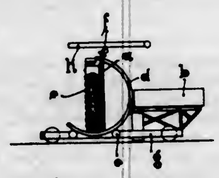
1,424,776. MUFFLER CUT-OUT. RICHARD SCHEID, St. Louis, Mo. Filed Apr. 1, 1921. Serial No. 457,748. 5 Claims. (Cl. 251—10.)



1. In a muffler cut-out, a single piece casting adapted to be interposed in the exhaust pipe of an engine, said

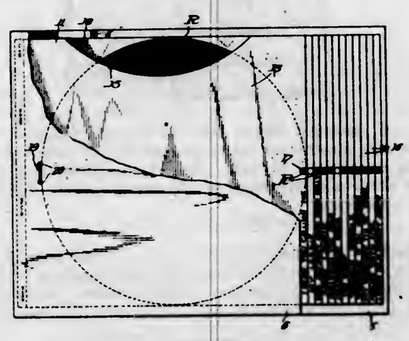
casting being provided with a transverse valve seat adjacent to its muffler end and having a discharge opening formed in its wall, there being an inwardly presented annular flange formed in said casting and encircling said opening, a valve adapted to be seated on said flange for closing said opening, an arm pivotally mounted on the exterior of said casting and having its free end projecting thereinto through said opening, flexible operative connection between said valve and said free end of said arm, resilient means for holding said valve on said annular flange, means for actuating said arm and moving said valve into engagement with said transverse seat, and means adapted to be secured to said exhaust pipe adjacent to each end of said casting for holding the latter against longitudinal and rotative movements.

1,424,777. PROCESS OF AND DEVICE FOR QUENCHING COKE IN NARROW CONTAINERS. WILHELM SCHÖNDELING, Essen-on-the-Ruhr, Germany. Filed May 12, 1920. Serial No. 380,934. 5 Claims. (Cl. 202—11.)



5. The process of treating cakes of coke having narrow and broad sides, comprising receiving the cake from a coking chamber into a quenching chamber on a side of small width, and thereafter positioning it on one of its broad sides to permit quenching water to adequately penetrate the coke.

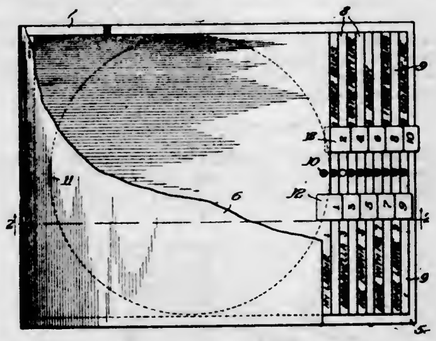
1,424,778. PHONOGRAPH-RECORD ALBUM. PHILIP N. SEA, Chicago, Ill. Filed May 5, 1920. Serial No. 379,189. 4 Claims. (Cl. 129—20.)



4. In a phonograph record album, the combination of a holder structure, a plurality of envelopes hinged at their inner edges on said holder structure, each envelope having a sight hole in its upper wall adjacent the front edge, and means at the inner end of each envelope for forcing received records forwardly into position with their front ends below the sight holes.

1,424,779. PHONOGRAPH-RECORD ALBUM. PHILIP N. SEA, Chicago, Ill. Filed June 12, 1920. Serial No. 388,418. 3 Claims. (Cl. 129—15.)

2. In a phonograph record album, the combination of covers and a plurality of record-receiving envelopes bound therein with their front ends underlapping, said envelopes being open only at their front ends, and a lifting tab secured to the upper wall of each envelope near the



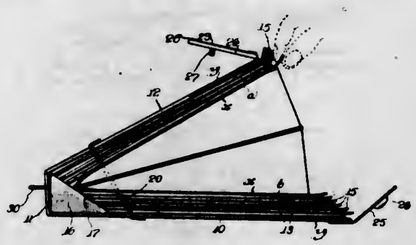
center of its open end whereby when the tab is raised the upper wall will be raised away from and to expose the contained record, said tabs underlapping.

1,424,780. PHONOGRAPH-RECORD ALBUM. FREDERICK W. SEA, Chicago, Ill. Filed July 31, 1920. Serial No. 400,429. 7 Claims. (Cl. 129—15.)



1. In a phonograph record album, the combination of a stack of envelopes having their adjacent walls secured together, and tabs at the open ends of the envelopes secured between said walls.

1,424,781. PHONOGRAPH-RECORD ALBUM. FREDERICK W. SEA, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 431,810. 17 Claims. (Cl. 129—15.)

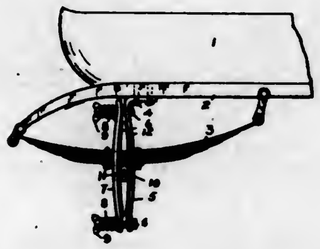


12. In a phonograph record album, a stack of envelopes open at their front ends and secured together at their adjacent walls at points within the sides thereof so as to leave the sides free, said envelopes being wider than the diameters of records to be received, and means for restricting the opening of the envelopes inwardly of their front ends in line with the transverse diameter of the records whereby such envelopes may be opened wide at their front ends and the contained records held spaced away from the upper and lower envelope walls.

1,424,782. ALLOY. WILLIAM H. SMITH, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 23, 1918. Serial No. 224,118. 5 Claims. (Cl. 75—1.)

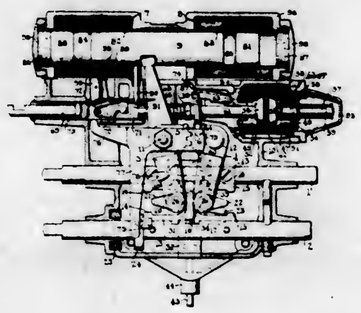
1. An alloy containing as principal ingredients, iron, chromium and nickel, the iron present being not less than 50% nor greater than 85%, the nickel present being not less than 1% nor greater than 10%, together with silicon from approximately 1 to 3%.

1,424,783. SHOCK ABSORBER. WILLIAM E. SNAMAN, Pittsburgh, Pa. Filed Aug. 13, 1921. Serial No. 491,939. 4 Claims. (Cl. 267—9.)



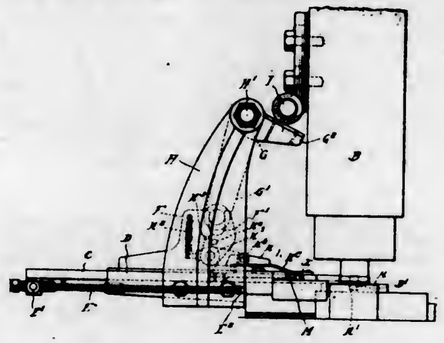
1. A shock absorber comprising a pair of spaced retarding elements adapted to depend from the body of a vehicle, the space between said elements gradually decreasing from the center towards each end, one of said elements being spring controlled and shiftable with respect to the other, and means capable of contacting with said elements below and above the center thereof, whereby said elements are utilized to retard the vertical movement of the vehicle body to absorb shock when the vehicle is travelling over an uneven road surface.

1,424,784. GEAR-SHIFTING MECHANISM. WILLIAM C. STEVENS, Milwaukee, Wis., assignor, by mesne assignments, to Vulcan Motor Devices Company, a Corporation of Pennsylvania. Filed June 5, 1920. Serial No. 386,852. 26 Claims. (Cl. 74—58.)



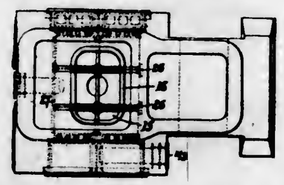
1. In a gear shifting mechanism for automobiles, in combination, a plurality of electro-magnets, means including parts operable by certain of said electro-magnets to effect a plurality of gear changes selectively and returnable to neutral by certain of said electro-magnets and control means for said neutralising and shifting electro-magnets subjecting the same to control by the automobile clutch lever for energization and to control by said first-mentioned means for de-energization.

1,424,785. FEEDING MECHANISM FOR WORK PIECES. WALTER N. STEVENSON, Evanston, Ill., assignor to F. J. Littell Machine Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 3, 1921. Serial No. 434,770. 6 Claims. (Cl. 164—88.)



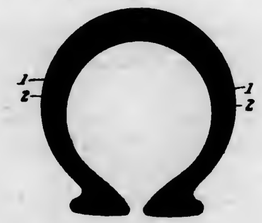
1. A feeding means for presses comprising an introducing member adapted to travel in a path to introduce a work-piece to the press, and a displacing member mounted upon and partaking of the introducing movements of the introducing member, and having an independent movement thereon to move the work-piece from the path of introduction when it arrives in position to receive the action of the press.

1,424,786. CONDENSER. JOSEPH D. STONE, Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, a Corporation of Virginia. Filed Sept. 6, 1917. Serial No. 189,932. 7 Claims. (Cl. 60—95.)



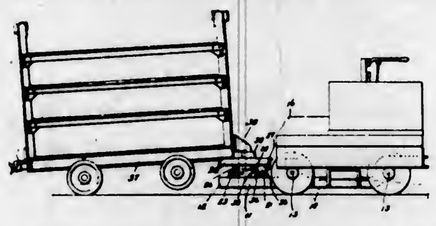
1. A combined engine and condenser therefor, the condenser shell and engine foundation of concrete or other non-metallic material being combined for transmission of the heat expansion of the condenser shell through the foundation.

1,424,787. RUBBER TIRE. JAMES TODD, Pittsburgh, Pa., assignor to The Sterling Varnish Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 8, 1917. Serial No. 147,378. 4 Claims. (Cl. 152—13.)



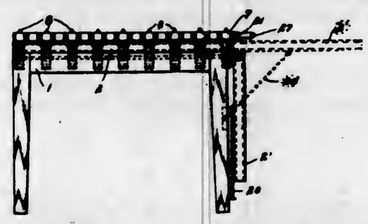
2. As a new article of manufacture, a pneumatic tire casing having on its outer surface a black asphalt varnish coating substantially impervious to light, water and air, deposited on said surface from a solution containing petroleum, benzene, substantially as described.

1,424,788. ELECTRIC TRUCK. CHARLES T. WESTLAKE and KARL S. HOWARD, St. Louis, Mo. Filed Dec. 8, 1919. Serial No. 343,212. 14 Claims. (Cl. 280—33.1.)



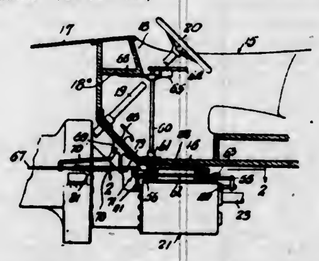
1. The combination with a tractor and a trailer, of an elevating member carried by said tractor and adapted to engage and raise one end of said trailer, coupling means operatively mounted in said elevating member and the connections between said coupling means and said tractor adapted to impart differential operating movement to said coupling means relative to said elevating member.

1,424,789. MACHINE FOR SHAPING CRUSH WORK. EDWARD W. WIESE, Sr., St. Louis, Mo. Filed Nov. 26, 1920. Serial No. 426,416. 21 Claims. (Cl. 223—52.)



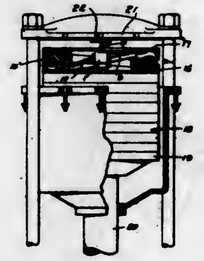
1. In a machine for making crush work, styli supporting means, certain of said styli supporting means being movable in longitudinal direction and all of said styli supporting means being movable in lateral direction, and a series of styli arranged in parallel rows in said supporting means, whereby each row of styli is extensible longitudinally in said supporting means independently of the other rows.

1,424,790. GEAR-SHIFT MECHANISM. EDWIN B. WILES, Chicago, Ill. Filed Nov. 8, 1920. Serial No. 422,455. 11 Claims. (Cl. 74—59.)



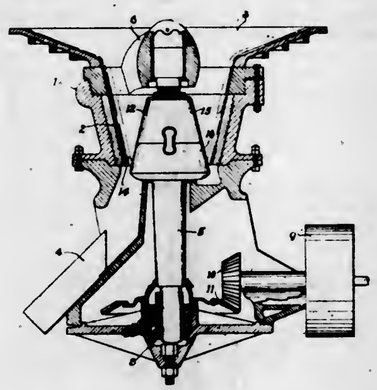
1. A gear shift mechanism, comprising in combination with a driving shaft, a driven shaft, a counter shaft, and a plurality of gears adapted to connect said shafts to operate the driven shaft at first and second speeds and in reverse, a clutch and operating yoke intermediate the gears of the first ratio and the reverse gear, a second clutch and operating yoke intermediate the gears of the second ratio and the driving shaft, a main gear shift arm, rotative members, one for each operating yoke at opposite sides of said arm, adapted to be oscillated in opposite directions thereby, and means connecting said rotative member to its associated operating yoke.

1,424,791. MOLD-OPENING DEVICE. ADRIAN O. ABBOTT, Jr., Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed May 25, 1921. Serial No. 472,498. 5 Claims. (Cl. 18—2.)



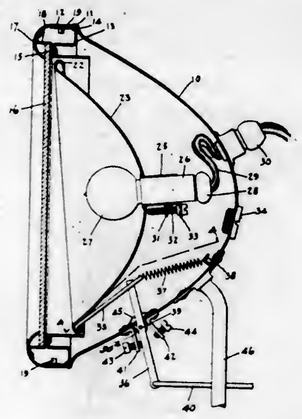
1. The combination with a sectional mold and an internal carrier and with a press type of vulcanizer having a movable ram and relatively stationary cover, of a device for separating both of the mold sections from a tire on the carrier by upward movement of the ram on which the mold rests.

1,424,792. ROCK CRUSHER. CLEMENS W. ACKERMANN, Chicago, Ill., assignor to Frog Switch and Manufacturing Company, Carlisle, Pa., a Corporation of Pennsylvania. Filed Dec. 29, 1919. Serial No. 347,923. Renewed June 12, 1922. Serial No. 567,742. 6 Claims. (Cl. 83—10.)



1. In a mantle for a crusher head, the combination of a head center, a mantle comprising an upper and a lower mantle section mounted on said head center, the adjoining edges of said mantle sections being provided with registering locking recesses terminating at points intermediate the ends of said mantle sections, a separate locking key independent of both mantle sections for locking said sections together, said locking key having enlarged end portions engaging in the co-operating recesses.

1,424,793. TILTING REFLECTOR FOR LAMPS. SAMUEL F. ARBUCKLE, Connersville, Ind., assignor to United States Automotive Corporation, Connersville, Ind. Filed Mar. 18, 1921. Serial No. 453,516. 6 Claims. (Cl. 240—41.)



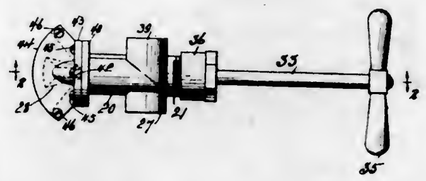
1. In combination with a lamp casing and closure therefor, of a tilting reflector device including a reflector pivotally mounted in said casing, an actuating lever extending through said casing and pivoted thereto, means for limiting the movement of said lever, a spring mounted between said casing and reflector having its respective ends secured thereto for yieldingly maintaining said reflector in normal position, a member secured to said reflector in position to be engaged by said lever, and means secured to the lower end of said lever for operating the same for causing it to engage said member and move the reflector to tilted position against the action of said yielding mears.

1,424,794. WRENCH OR OTHER TOOL. JOSEPH RENÉ AYOTTE, Chicago, Ill. Filed Jan. 28, 1920. Serial No. 354,545. 10 Claims. (Cl. 81—177.)



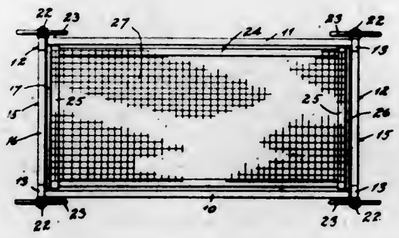
1. In a wrench or tool of the class described, the combination of an outer stationary tube forming a shank or handle, an inner rotary tube, an extension tube telescoped within the rotary tube, said extension tube having a longitudinal groove therein, and means engaging said groove to prevent relative rotation between said rotary tube and said extension tube, together with a tool-like device connected with the rotary tube and a handle connected to the extension tube.

1,424,795. OIL BURNER. JOHN F. BANNON, Bayonne, N. J. Filed Dec. 31, 1919. Serial No. 348,533. 3 Claims. (Cl. 158—75.)



1. In a burner for liquid fuel the combination of a body portion with a nose end and having a steam chamber and an oil chamber adjacent one to the other, said nose end having an oil well spaced from said oil chamber and having a port connecting it with the oil chamber, a detachable cap for said nose end covering said oil well and one end of the steam chamber, said cap having a port connecting the steam chamber and the top of said oil well, said cap forming an outlet port with the upper portion of the oil well for the burner, means to furnish steam to the steam chamber and means to furnish oil to the oil chamber.

1,424,796. FOLDING BASSINETTE. HENRY BEHR, Brooklyn, N. Y. Filed May 7, 1920. Serial No. 379,526. 3 Claims. (Cl. 280—36.)

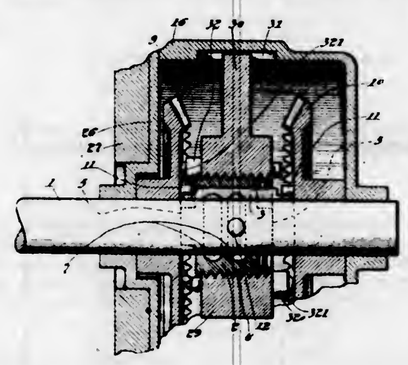


1. A folding bassinette, comprising folding panels, supporting members associated with said panels, and a removable member forming a bottom for said bassinette, adapted to rest on said supporting members and maintain the bassinette in full open position.

1,424,797. AUTOMATIC REVERSING MECHANISM. GUSTAVE W. BERTHOLD, Chicago, Ill. Filed Apr. 3, 1919. Serial No. 287,220. 15 Claims. (Cl. 74—50.)

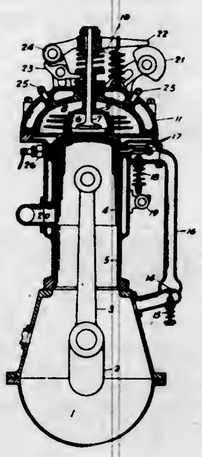
1. In a device of the kind described and in combination, a driven shaft, two rotatable members loosely mounted on said shaft, intermediate means between the two members so arranged that when either of said members is rotated the other will be rotated in the opposite direction, a cooperating clutch member slidably mounted upon the shaft positioned between the two members, arranged

to alternately engage them, and a cooperating encircling member axially movable on the clutch member so as to be



reciprocated thereby and arranged to alternately shift the clutch member into engagement with said rotatable members.

1,424,798. EXPLOSIVE ENGINE. HARVEY B. BLACK, Bogota, N. J. Filed Dec. 9, 1919. Serial No. 343,683. 11 Claims. (Cl. 60—16.)



1. The method of operating an internal combustion engine consisting in generating steam therein by mixing the gaseous products of combustion, resultant from the explosion of the vaporized fuel, directly with water preheated by contact with the engine parts normally heated by such explosion; separately confining said steam during its generation and during the explosion impulse stroke of the piston; admitting said steam to the piston upon its return therefrom; permitting the expansion of said steam to drive said piston upon its next stroke and repeating said steam cycle in alternation with the explosive cycle.

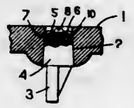
1,424,799. ADJUSTER. HARRY E. BROWN, Grenola, Kans. Filed June 16, 1921. Serial No. 478,120. 5 Claims. (Cl. 255—18.)

1. In a device of the class described, an upper clamp; means for mounting the upper clamp for swinging movement; a spreader; a lower clamp; a cable looped in the upper clamp and having its ends separated by the



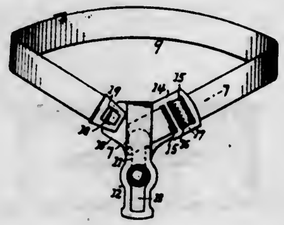
spreader; and means for connecting the ends of the cable with the lower clamp.

1,424,800. HORSESHOE CALK. ANDREW BULSKI, Newton, Mass., assignor of one-half to Patrick J. Quinn and one-fourth to Stephen Sullivan, both of Newton, Mass. Filed June 25, 1921. Serial No. 480,272. 3 Claims. (Cl. 168—41.)



2. The combination with a horseshoe having an opening, of a calk having a shank to enter said opening, and a spring retaining device extending transversely of the shank and having a length slightly longer than the diameter of the shank whereby said retaining device will flex as the shank is introduced into the opening and the resiliency of said retaining device will cause the ends thereof to grip the walls of the opening and thereby to prevent the shank from being dislodged.
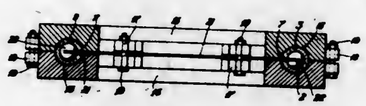
1,424,801. GARTER. ROBERT M. BYERS, Brooklyn, N. Y. Filed June 2, 1919. Serial No. 301,260. 5 Claims. (Cl. 241—6.)



1. A garter comprising a clasp having back and front members, keyhole slots formed in the members, a button slidingly arranged in the slots, a lateral slotted lug projecting at an angle from the back to adjustably attach one end of an elastic band, and a hook located opposite to the lug for engagement with another end of the band.

4. A celluloid blank adapted to form a clasp for garters having a pair of longitudinal slots, one being above the other, and a lateral dog extending at an angle from the body of the blank.

1,424,802. MANUFACTURE OF RESILIENT TIRES AND APPARATUS THEREFOR. THOMAS H. CHANNON, Fitzroy, Melbourne, Victoria, Australia. Filed Jan. 3, 1922. Serial No. 526,659. 5 Claims. (Cl. 18—45.)



1. In means for making a resilient tire of the kind indicated, a circular dividing plate, in combination with a series of cores each of which is provided with an open mouthed gullet to receive the outer portion of said plate, and screws passing through threaded holes in said cores to retain them to the dividing plate, substantially as and for the purpose specified.

1,424,803. FASTENER. SEWELL M. CORBETT, Honolulu, Territory of Hawaii. Filed Sept. 18, 1920. Serial No. 411,304. 4 Claims. (Cl. 24—18.)



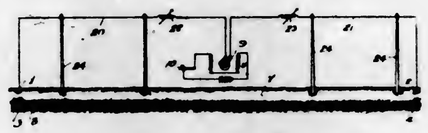
1. A device of the character described including a base having an overhanging forwardly bent back spring provided with a clamping tongue confronting the base in coacting relation, the bend between the base and back spring being formed to provide a substantially channel shaped keeper receiving the free end portion of the tongue.

1,424,804. JEWEL SUPPORT FOR COMPASSES. EDWIN W. DAY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed July 23, 1917. Serial No. 182,126. 7 Claims. (Cl. 33—222.)



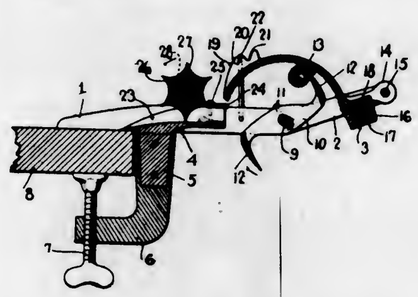
3. In a compass, the combination with a casing, of a spring supported by said casing, a supporting element on said spring, a member having a shouldered aperture on said element, a jewel clamped between the top of said element and the shoulders of said aperture, and a magnetic rotatable element pivotally supported on said jewel.

1,424,805. SUBTERRANEAN SIGNALING SYSTEM. LEE DE FOREST, New York, N. Y. Filed June 16, 1917. Serial No. 175,119. 8 Claims. (Cl. 250—3.)



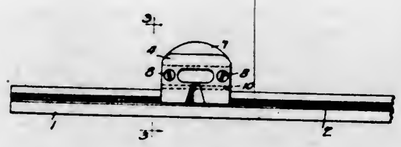
1. A system of electrical signalling comprising a pair of overhead base lines each formed between plates buried in the earth in substantially the same stratum of different conductivity from that of the earth's surface, and a signaling circuit associated with each of said base lines.

1,424,806. DOUGH-FORMING MACHINE. LOUIS DE VITO, Cleveland, Ohio. Filed May 17, 1919. Serial No. 297,839. Renewed July 30, 1921. Serial No. 488,677. 7 Claims. (Cl. 107—9.)



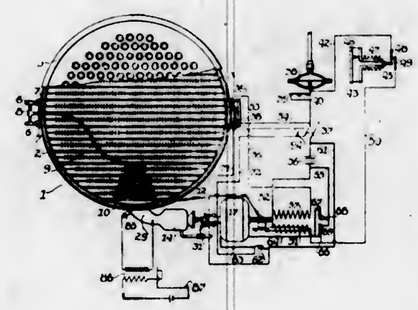
1. A device of the class described comprising a frame, means therein for rolling a piece of dough into spiral shape and cutting means for the dough cooperating with a part of the before mentioned means.

1,424,807. MAGNIFYING RUNNER FOR SLIDE RULES. CARL F. DIECKMANN, Chicago, Ill., assignor to Eugene Dietzgen Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 21, 1921. Serial No. 446,730. 3 Claims. (Cl. 235—70.)



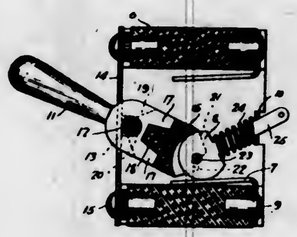
1. A runner for slide rules having upstanding side plates adapted to travel along the rule, a transparent cross member extending from one plate to the other slightly above the upper surface of the rule, and having a reading line marked on it, a magnifying glass the ends whereof abut the inner surfaces of the plates, near the top, and tie rods for drawing the plates firmly against the ends of the transparent cross member and magnifying glass.

1,424,808. BURNER. JOHN A. DIENNER, Chicago, Ill., assignor to Charles A. Brown, Harvey L. Hanson, and John A. Dienner, Copartners doing business as Brown, Hanson & Boettcher, Chicago, Ill. Filed Dec. 10, 1917, Serial No. 206,431. Renewed June 21, 1922. Serial No. 569,883. 15 Claims. (Cl. 158—31.)



1. In combination, a boiler, a vaporizing burner, for heating said boiler, a vaporizing coil for said vaporizing burner, automatic regulating means controlled by conditions within said boiler for stopping and starting said vaporising burner, an atomizing burner, and means controlled by said automatic regulating means for automatically operating said vaporizing and atomizing burners in overlapping alternating sequence.

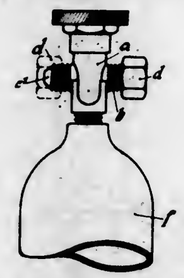
1,424,809. ELECTRIC SWITCH. HAROLD POTTER DONLE, Meriden, Conn., assignor to The Connecticut Telephone and Electric Company, Incorporated, Meriden, Conn., a Corporation of Connecticut. Filed May 21, 1921. Serial No. 471,437. 7 Claims. (Cl. 200—67.)



1. In an electric switch, an insulating body having a passage extending from the front to the rear thereof with bearing notches in the front, a cross bar in the rear, a relatively stationary contact in said recess, a movable contact guided by said bar, a spring interposed between said bar and said contact, an operating handle pivoted in said bearing notches, an insulating connector interposed between said handle and said movable contact member, and a face plate holding said handle, said connector and said movable contact in place.

1,424,810. STOP VALVE FOR PRESSURE-GAS CONTAINERS. ALEXANDER BERNHARD DRÄGER, Lubeck, Germany. Filed June 9, 1921. Serial No. 476,233. 2 Claims. (Cl. 251—155.)

2. In a stop valve for pressure gas containers the combination of a threaded delivery socket, a threaded dead socket having a domeshaped projection on its free end



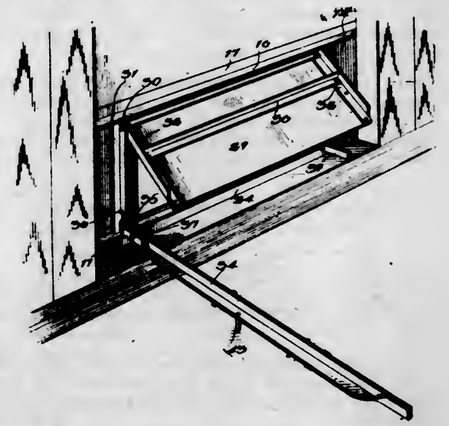
face, and a protecting screw cap adapted to be screwed on one or the other socket.

1,424,811. HYDROPLANE. ROBERT P. ERHARD, Juniata, Pa. Filed Dec. 1, 1920. Serial No. 427,567. 5 Claims. (Cl. 114—66.5.)



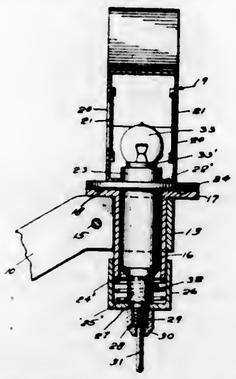
1. The combination with the hull of a hydroplane and tiltable planes at the sides thereof, of motor propelled means for tilting the planes at one side of the hull oppositely to the planes at the other side of the hull, and motor propelled means for shifting all of the planes simultaneously upwardly and downwardly at their front ends.

1,424,812. BOX-CAR DOOR. OSCAR FROMAN and WARREN ARTHUR WILMOTH, Edna, Kans. Filed Apr. 2, 1921. Serial No. 457,882. 5 Claims. (Cl. 292—259.)



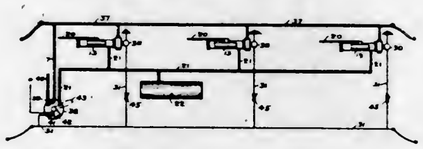
1. The combination with a body, of a gate horizontally hinged thereto, a hinge connected to the body for swinging movement about a vertical axis, a gate locking bar of angle iron horizontally pivoted to said hinge, and a keeper vertically pivoted to said body and having means overlapping and engaging the terminal portion of said lock bar, and also engaging said gate.

1,424,813. DIRECTION-INDICATING SIGNAL. JOSEPH A. GLANCEY, Rock Island, Ill. Filed Oct. 19, 1921. Serial No. 508,740. 3 Claims. (Cl. 116—48.)



1. A signal apparatus for indicating direction, comprising an outer casing provided at its upper end with a flange, said flange having depressions in its top face, an arm serving to hold the casing stationary and adapted to be secured to a part of an automobile, a direction indicating casing provided with openings in its sides, an inner casing projecting into the lower portion of the direction indicating casing, and provided near its upper end with a flange which is secured to the direction indicating casing, said inner casing being pivotally mounted within the outer casing, and having a reduced portion at its lower end projecting downwardly below the outer casing, a cap slidable upon the lower end of the outer casing and having an opening in its bottom to receive the lower end of said reduced portion, a coil spring arranged within the cap outwardly of the reduced portion and engaging the bottom of the cap and the lower end of the outer casing, a cap nut carried by the lower end of said reduced portion and engaging said cap, projections secured to the lower face of the flange of the outer casing and adapted to enter said depressions, an electric bulb held within the upper end of the outer casing and arranged within the direction indicating casing, and a cable extending through the inner casing and having suitable connection with the filament of the bulb.

1,424,814. CAR-DOOR-OPERATING MECHANISM. ALBERT GOTTSCHALK, New York, N. Y., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Oct. 18, 1919. Serial No. 331,627. 20 Claims. (Cl. 105—341.)



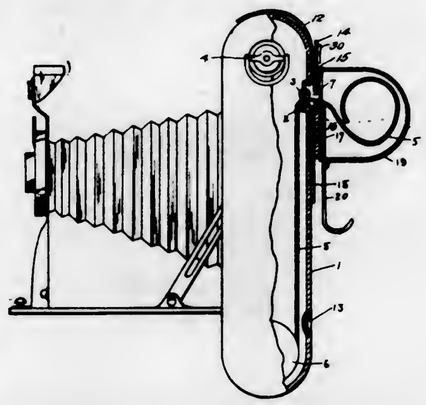
1. In a door operating mechanism, the combination of a fluid pressure motor for the door, and means for controlling the operation of the motor either electrically or pneumatically.

1,424,815. PACKAGE RECEPTACLE FOR DOORS AND PARTITIONS. JOHN ALAN CAMPBELL GREENE, Folkestone, England. Filed Apr. 26, 1921. Serial No. 464,679. 4 Claims. (Cl. 232—41.)

1. The combination with a wall structure having an aperture and a shutter for closing the aperture, of a goods receiving apparatus comprising a container or casing divided into a number of compartments and mounted to slide on guides in proximity to the shuttered aperture in the wall structure, and means whereby the operation of the shutter of the aperture transmits a sliding motion to the container substantially as and for the purposes set forth.



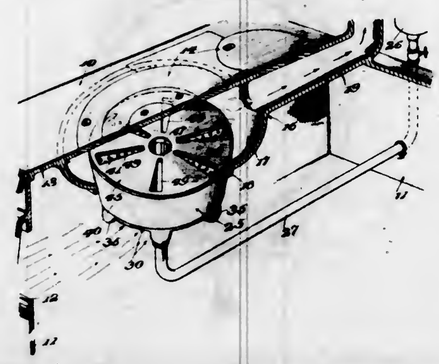
1,424,816. COMBINATION FILM CAMERA AND DEVELOPING TANK. ANTHONY F. GRILLONE, Rochester, N. Y. Filed Jan. 15, 1921. Serial No. 437,574. 6 Claims. (Cl. 95—13.)



1. A combination film camera and developing tank, comprising a camera, a detachable developing tank mounted at the back of said camera, means adapted to feed the exposed film from said camera into said tank, and means adapted to sever the film in said tank from the film in said camera, and means for releasing said developing tank with the severed film portion contained therein.

1,424,817. BURNER. ROBERT ASHLEY GRIM, St. Paul, Minn. Filed June 30, 1921. Serial No. 481,719. 6 Claims. (Cl. 158—86.)

1. A burner comprising a base having a plurality of radiating fuel troughs and air inlet openings intermediate the troughs, said base having a laterally extending annular shoulder and a series of upstanding legs, a shell resting on the annular shoulder and engaged by the lugs, a plurality of pairs of perforated plates arranged in the shell, the members of the pairs of plates being arranged on the opposite sides of the fuel troughs, said shell having slots in its inner wall receiving the outer ends of said plates, and a top plate having radiating flame openings overlying said fuel troughs and having a series of depending lugs engaging the shell and a central hub, said perforated plates being notched to accommodate said hub.



1,424,818. WHEEL. CHARLES GUERNSEY, Wabash, Ind. Filed June 1, 1920. Serial No. 385,472. 5 Claims. (Cl. 301—63.)



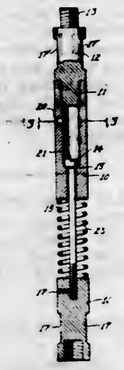
1. A vehicle wheel comprising a rim, a pair of discs secured thereto and provided with central openings, a ring secured to the inner periphery of one of said discs, a detachable hub adapted to be introduced through said disc openings, provided with a shoulder adapted to engage said ring and with a flange overlapping the inner margin of the other disc, and means co-operating with said flange to place said discs under tension.

1,424,819. BASKET TRUCK. LEE B. HAYES and VERN W. KEMP, Paonia, Colo. Filed Mar. 2, 1921. Serial No. 449,114. 6 Claims. (Cl. 214—65.5.)



1. The combination with a hand truck, of a pair of arcuate cupped supporting arms pivotally mounted upon the lower end of the truck, and means upon the truck for moving said arms into and out of engagement with a circular article.

1,424,820. OIL-WELL TOOL. GUY F. HEAP, Midian, Kans. Filed June 13, 1921. Serial No. 477,311. 2 Claims. (Cl. 255—28.)

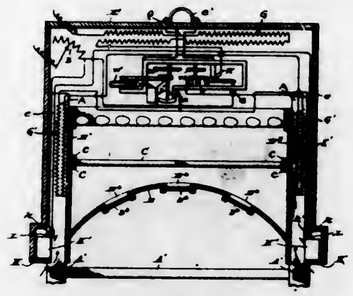


1. A sucker rod for oil wells comprising a plurality of sections, one of said sections including a tubular body portion, a coupling member joining the body portion with one of said sections, a rod swivelly connected with the said body portion and projecting beyond the end thereof, a coupling joining the rod with the adjacent section of the rod, and a cushioning element interposed between the latter mentioned sections of the rod for the purpose specified.

1,424,821. APPARATUS FOR INCUBATING. CHARLES M. HECK, Raleigh, N. C. Filed Nov. 19, 1914. Serial No. 873,061. 32 Claims. (Cl. 119—37.)

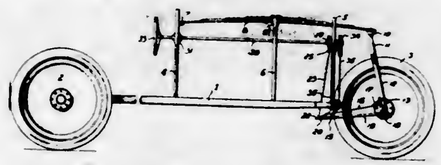
1. In an incubator the combination with an incubator chamber and ventilating flues, means for heating the

chamber, means adapted to be operated for heating the ventilating flues, and means acting automatically to throw



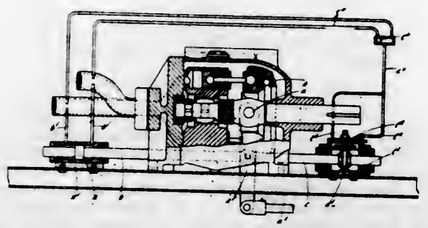
into operation the ventilating flue heaters upon the building up of a temperature in the incubator above a given point.

1,424,822. TRICYCLE OR THREE-WHEEL MOTOR VEHICLE. EDVIN HERDS, Detroit, Mich. Filed Dec. 27, 1920. Serial No. 433,239. 20 Claims. (Cl. 208—114.)



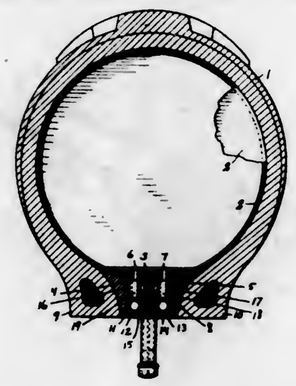
1. In a vehicle having a chassis and a single supporting and steering wheel in front, the combination of a vehicle supporting fork for the wheel, a steering fork for the wheel at approximately right angle to said supporting fork and extending horizontally rearward from the hub portion of said wheel, two radius rods with universal joints at both ends holding the lower end of said supporting fork relative to said chassis, and means connected to the rear end of the steering fork adapted to move it in a horizontal plane.

1,424,823. HYDRAULIC PUMP AND MOTOR. MAURICE KERR INGOLDBY, Westminster, London, England, assignor to The Variable Speed Gear, Limited, Westminster, London, England. Filed Nov. 28, 1921. Serial No. 518,186. 20 Claims. (Cl. 103—3.8.)



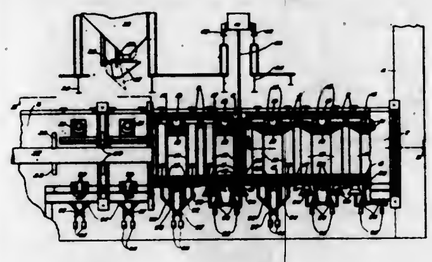
1. In a variable stroke fluid pump having at least one cylinder and piston, a member controlling the stroke of the piston, and balancing means acting on said member interposed between the same and a part which remains stationary during the stroke controlling adjustments of said member, for approximately balancing the resistance offered by the fluid to the adjustment of said member in the stroke increasing direction.

1,424,824. TIRE. ORIN JOHNSON and CLARENCE NEUMAN, Menasha, Wis. Filed Nov. 20, 1920. Serial No. 425,384. 2 Claims. (Cl. 152—22.)



2. In a tire, the combination with a casing of a plurality of cells, a filling strip, provided with grooves and apertures, an inflating tube and a deflating tube disposed within the grooves of the filling strip and communicating with the cells through nipples received within the apertures, and means to prevent air from passing from an unpunctured cell to a punctured cell.

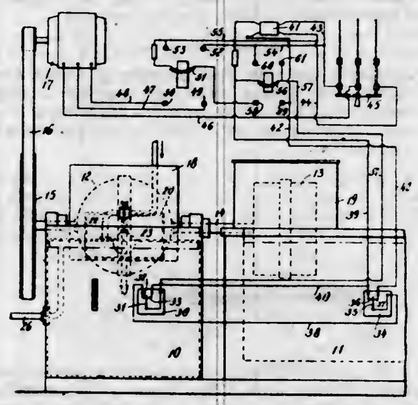
1,424,825. VERTICAL RETORT ZINC-SMELTING FURNACE. ARCHIBALD JONES, Pittsburgh, Pa. Filed Feb. 19, 1921. Serial No. 446,415. 6 Claims. (Cl. 266—19.)



1. A smelting furnace comprising a furnace chamber, a plurality of vertical retorts arranged in rows in said chamber, and a fixed condenser arranged between two rows of said vertical retorts and communicating with each of said retorts in said rows.

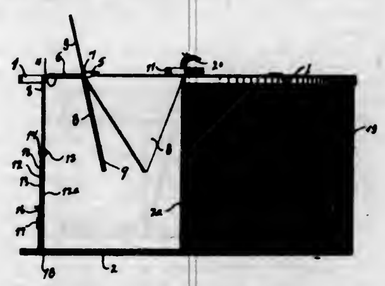
1,424,826. CONTROL FOR REFRIGERATING MACHINES. ALFRED D. KARR, Newark, N. J., and KARL D. PERKINS, New York, N. Y., assignors to Audiffren Refrigerating Machine Co., New York, N. Y., a Corporation of New Jersey. Filed Mar. 2, 1920. Serial No. 362,756. 18 Claims. (Cl. 62—4.)

2. In refrigerating apparatus provided with motor driven compression and expansion members rotatably mounted in a condenser tank and a refrigerating plant respectively, the combination of a thermostat in the condenser tank and a thermostat in the refrigerating tank, and means associated with the thermostats for controlling the driving motor, said thermostats being electrically connected to each other and to the controlling means so that the thermostat in the refrigerating tank can control said means only when the thermostat



in the condenser tank is in normal circuit closing position due to a predetermined temperature of the liquid in said tank.

1,424,827. ANIMAL TRAP. JOSEPH KENDZIERSKI, Minneapolis, Minn. Filed Apr. 23, 1921. Serial No. 463,783. 1 Claim. (Cl. 43—69.)



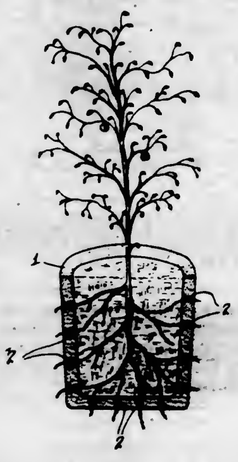
A trap comprising upper and lower frames, a multagonal wall disposed vertically therebetween, a multi-recessed disc secured at the corners of said wall, tongues extending radially inward from the corners, shutter-like doors pivotally mounted on the inner ends of said tongues, said doors being depressed by weight, stops limiting the movement of said doors, gravity operated means for returning said doors to their initial positions, and operable means for obtaining access through said wall.

1,424,828. OPHTHALMIC MOUNTING. HENRY E. KIRSTEIN and THOMAS LEYTHAM, Rochester, N. Y., assignors to E. Kirstein Sons Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 20, 1920. Serial No. 404,838. 2 Claims. (Cl. 88—53.)



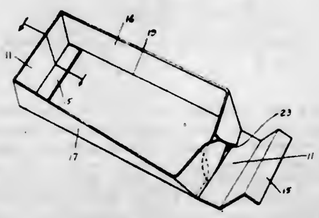
1. An ophthalmic mounting comprising a non-metallic lens frame, a temple supporting member formed of non-metallic material and having a portion projecting outwardly and portions extending rearwardly from the plane of the frame and forming a pocket closed at its front and outer side and open at its rear and inner side, and a temple pivotally mounted in the pocket to fold inwardly over the rear face of the frame and to have its outward movement limited by the outer side of the pocket.

1,424,829. FERTILIZER POT. HENRY KLEB, Elizabeth, N. J. Filed Apr. 18, 1921. Serial No. 462,221. 2 Claims. (Cl. 47—34.)



1. A fertilizer pot or receptacle consisting of plant nourishing materials and a porous binding material.

1,424,830. LOCK FOR PAPER BOXES. EUGENE KOTTERMAN, Marion, Ind., assignor to International Printing Company, Indianapolis, Ind., a Corporation. Filed Aug. 1, 1921. Serial No. 488,814. 3 Claims. (Cl. 229—34.)

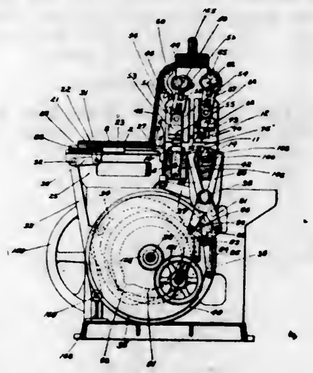


2. A box construction including a body portion and double sides and ends, a flap on each end of said sides, and of such form that when doubled each end of a side is provided with a projecting tongue and adjacent pocket portion to provide a dual lock construction.

1,424,831. MACHINE FOR FORMING REENFORCING GIRTHS. ALBERT S. KUX, Chicago, Ill., assignor to Signode System, Inc., a Corporation of Delaware. Filed Nov. 10, 1917. Serial No. 201,221. 21 Claims. (Cl. 153—2.)

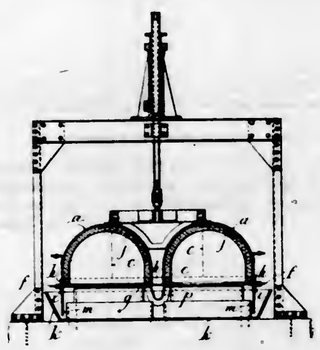
1. In a machine for making metallic reenforcing girths for metallic tension resisting box strapping, means for

feeding a strip of girth forming material of a width sufficient to form a single line of girths sidewise, means for



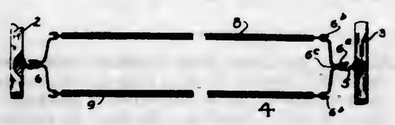
severing said strip into a plurality of blanks each adapted to form a reenforcing girth, and means for thereafter forming said blank.

1,424,832. GAS-REVERSING VALVE. WYVIL HARTLEY LAKE, Stoke-upon-Trent, England. Filed Aug. 16, 1921. Serial No. 492,854. 5 Claims. (Cl. 137—148.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



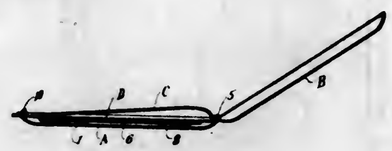
1. In a gas reversing valve of the kind referred to, a vertically movable hood comprising two separate arched casings of metal, a trough uniting adjacent edges of such casings, said trough having closed ends, and a liquid seal which the trough aforesaid enters when the hood is in its lowermost position said trough when elevated as well as when lowered, containing liquid sufficient to prevent warping.

1,424,833. HAT SUPPORT. FRANK B. LEONARD, Chicago, Ill. Filed July 9, 1921. Serial No. 483,613. 4 Claims. (Cl. 45—13.)



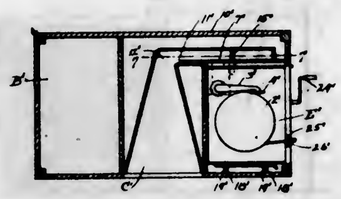
1. A hat support comprising a pair of yokes, each yoke shaped at the center to receive elements for fastening the device to the braces of an automobile top, and a pair of resilient members suspended between said yokes in parallel spaced relation, the distance between the members being substantially the width of a hat crown.

1,424,834. CASE FOR CIGARETTES AND THE LIKE. WILLIAM H. LESTER, Elgin, Ill., assignor to Illinois Watch Case Company, Elgin, Ill., a Corporation of Illinois. Filed June 16, 1921. Serial No. 477,878. 4 Claims. (Cl. 206—41.)



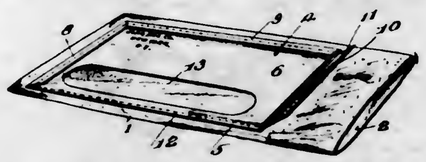
1. In combination with a case having a pair of dished covers connected by a spring hinge, a leaf swingingly mounted between the covers, spring means for normally holding the leaf against one of the covers, and a mounting on the leaf adjacent said cover for carrying a thin article, the said leaf being also provided with a mounting for a similar article, substantially as described.

1,424,835. PHONOGRAPH CONSTRUCTION AND HOUSING. FREDERICK H. LIVINGSTON, Binghamton, N. Y., assignor to William J. Vogt, Binghamton, N. Y. Filed June 9, 1920. Serial No. 387,709. 3 Claims. (Cl. 274—2.)



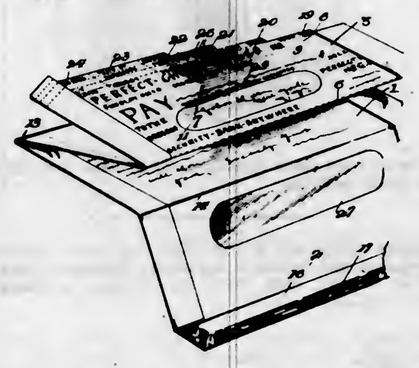
1. In a musical instrument, a housing, a horn rigidly mounted therein, a drawer slidably mounted in the housing and provided with a partition forming two compartments, phonograph operating mechanism mounted in one of the compartments of the drawer, a tone arm arranged in communication with the other compartment and carried by the drawer and an adjustable passage establishing communication between the horn and the compartment which communicates with the tone arm, substantially as described.

1,424,836. BAG AND ENVELOPE. WILLIAM E. LOVER, Findlay, Ohio. Filed July 2, 1918. Serial No. 243,039. 1 Claim. (Cl. 229—72.)



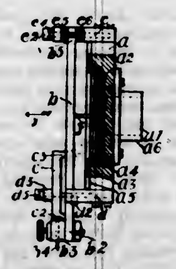
In an article of the class described, a bag of limp material having a mouth at one end, an envelope having a back disposed against one side of the bag, means extending along the side edges of the envelope and the end edge thereof remote from the mouth of the bag to secure the front and back of the envelope together and to the said side of the bag, the said sides and end of the envelope being permanently closed by said means and the other end of the envelope being left unattached and open to provide a mouth spaced inwardly from the mouth of the bag, the said back of the envelope being provided at its last mentioned end with an extension providing a closure flap for the said mouth end of the envelope.

1,424,837. COMBINED LETTER SHEET, CHECK, ENVELOPE, AND CARBON COPY. WILLIAM E. LOVER, Findlay, Ohio. Filed July 8, 1918. Serial No. 243,825. 4 Claims. (Cl. 283—9.)



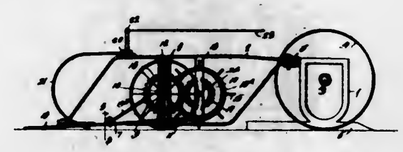
1. In an article of the class described, an original sheet and a second sheet integrally connected along one edge to receive a manifolding sheet between them, the original sheet having upon its face a negotiable instrument form and the second sheet having upon its face a substantial duplicate of said form whereby a record of the instrument will be produced upon the duplicate form through the manifolding sheet, the united marginal portion of the negotiable instrument form of the first-mentioned sheet bearing series of numerals representing series of numerals arranged in decimal divisions, whereby when the original sheet is separated to leave connected therewith portions of the said margin bearing a selected arrangement of numerals a maximum amount will be left and the remainder of the said margin will remain integral with the said second sheet.

1,424,838. REPRODUCER FOR TALKING MACHINES. EVERETT M. LOW, Brooklyn, N. Y. Filed May 12, 1919. Serial No. 296,622. 7 Claims. (Cl. 274—35.)



1. A sound box having a diaphragm, a lever adapted to receive vibrations, a bridge between the lever and the diaphragm, the lever having an incompressible support on one side of the sound box and extending across to and having a second support on the opposite side of the sound box and a confining means for rigidly retaining the lever on the said incompressible support and a second confining means for retaining the lever on the said second support.

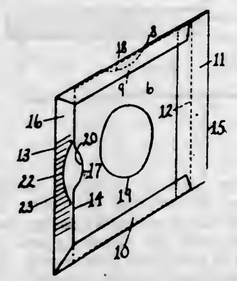
1,424,839. BEAN BUNCHER. JOHN M. MCINTYRE, Bad Axe, Mich. Filed Apr. 9, 1920. Serial No. 372,502. 4 Claims. (Cl. 55—9.)



1. In a machine of the character specified, a toothed rotary member, a plurality of strips having an end portion bent to extend around said rotary member and incline downwardly and rearwardly, and means for connecting the strips and admitting of their having an independent movement to conform to the surface condition of the ground.

2. In a machine of a character set forth, a supporting frame, a toothed member mounted in the frame and adapted to have a rotary movement imparted thereto, an axle yieldably mounted in the frame and provided with ground wheels, and connecting means between said axle and said toothed member to impart a positive rotary movement to the latter.

1,424,840. PHONOGRAPH ENVELOPE AND METHOD OF MAKING THE SAME. MARC G. MARKOSAP, Brooklyn, N. Y. Filed Mar. 3, 1921. Serial No. 449,567. 19 Claims. (Cl. 129—16.7.)



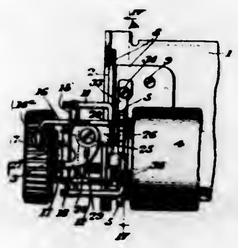
14. An envelope for filing phonograph records adapted to form a plurality of compartments opening in different directions, one thereof extending in a plurality of directions beyond another.

17. The method of making a phonograph envelope having a plurality of compartments, which consists in providing means of sufficient length and width to form three sides, then folding a pair of contiguous sides successively upon the same side of the third side to form a plurality of compartments opening in different directions.

1,424,841. TYPEWRITING MACHINE. KENNETH E. MARSH, Groton, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed July 22, 1920. Serial No. 398,109. 24 Claims. (Cl. 197—114.)

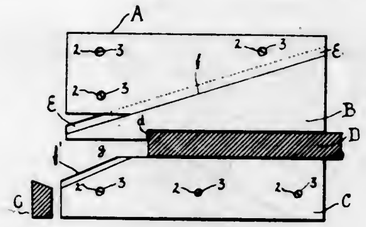
1. In a typewriting machine, the combination of a rotatably supported platen, a ratchet wheel rotatable

with said platen, a pivotally and slidably supported line-space lever, a fixed pawl carried by said lever adapted to engage and rotate the ratchet wheel, and an overthrow



locking pawl carried by said lever adapted to engage the ratchet after a predetermined movement of the line-space lever.

1,424,842. BENCH DOG. LEO A. MATTHEWS, Binghamton, N. Y. Filed Oct. 25, 1920. Serial No. 419,498. 1 Claim. (Cl. 144—307.)



A device of the character described, including a pair of guides, means for securing the guides to a bench, the inner edge of one of the guides having the main portion of its inner edge cut slantingly and bevelled inwardly, a wedge of triangular form having one side edge arranged on a slant and bevelled outwardly for coacting with the complemental edge of said guide and having its other side edge arranged at a right angle to its base and offset to form a shoulder, and the other guide having its inner side edge straight and the inner corner of said side edge being cut away at a slant and bevelled outward to provide an opening for the passage of shavings, substantially as and for the purposes set forth.

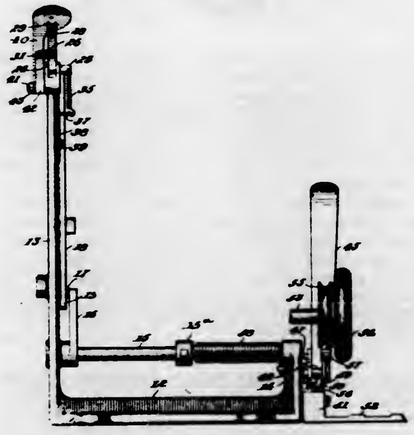
1,424,843. AIR COOLING AND CIRCULATING DEVICE. GEORGE L. MENK, St. Louis, Mo. Filed Mar. 20, 1919. Serial No. 283,856. 4 Claims. (Cl. 62—131.)

1. In a device of the character described, a hollow column which tapers upward, terminating with a restricted throat and flared mouth, an adjustable closure for said mouth, a cooling element in the lower portion of said column, and mechanical means for creating a forced draft upward through said column, said column having air intake openings near its bottom whereby the air entering the column passes in contact with said cooling element, and outlet openings near its top, but below



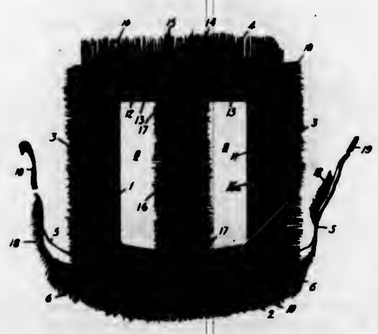
the throat, said outlet openings being of lesser area than said intake openings.

1,424,844. STOP-MOTION DEVICE. WILLIAM S. MILLS, Trumbull, and HECTOR E. BISAILLON, Bridgeport, Conn. Filed June 11, 1921. Serial No. 476,824. 4 Claims. (Cl. 112—219.)



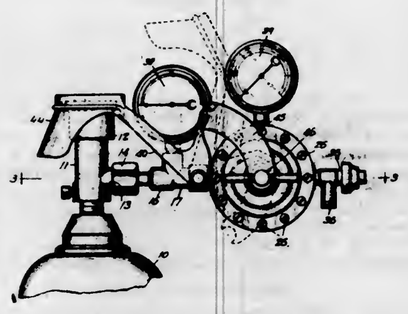
1. In a stop-motion device, the combination with a power shaft provided with a wheel to which a brake may be applied, of a tripping mechanism comprising a spring-actuated rock-shaft, a setting handle attached to said rock-shaft and having an arm provided with a pin, a bracket supporting said rock-shaft, a lever having a slot entered by said pin, a brake device carried by said lever and arranged to act on said wheel, a latch-lever mounted on said bracket and operatively connected with said rock-shaft, a spring-held tripping rock-shaft supported by said bracket and carrying a holding latch having a finger normally engaging said latch-lever and holding the stop-motion device inactive, a tripping arm carried by said stripping rock-shaft and provided with a narrow slit permitting free passage of a thread, but adapted to be tripped by knots or lumps in the threaded to release said latch from said latch-lever and thus render the stop-motion device operative to apply said brake device positively to said wheel on said power shaft.

1,424,845. TRANSFORMATION. WILLIAM E. NOLAN, Wilkinsburg, Pa. Filed Sept. 20, 1920. Serial No. 411,528. 15 Claims. (Cl. 132—53.)



1. A transformation comprising a hair-supporting foundation constructed of soft pliable material of substantially open frame formation having a side or perimetral entrance permitting the same to be moved transversely to the perpendicular axis of the head along a path adjacent to the scalp to operative position around natural hair on the head.

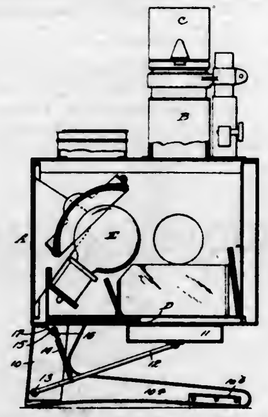
1,424,846. REDUCING-VALVE APPARATUS. WILLIAM S. NOYES, Chicago, Ill. Filed Mar. 8, 1920. Serial No. 364,231. 5 Claims. (Cl. 50—23.)



1. In an apparatus of the class described, the combination with a tank, of a releasing valve therefor, a regulator connected with said valve including a spring pressed diaphragm, and interlocking mechanism between said valve and the regulator which compels the release of the spring pressure on the diaphragm before the releasing valve can be operated, for the purpose described.

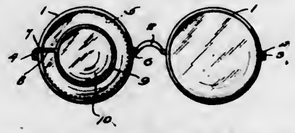
1,424,847. PROJECTION APPARATUS. HARVEY N. OTT and FRANK H. BUFTON, Buffalo, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y. Original application filed Nov. 13, 1919, Serial No. 337,773. Divided and this application filed Jan. 31, 1921. Serial No. 441,126. 10 Claims. (Cl. 88—24.)

1. In a projection apparatus, the combination with a light casing, a source of light therefor, and a projection objective, said casing having an exposure opening for objects, of an object holder adapted to hold an object in image projecting relation to said exposure opening, said object holder being mounted to swing to and from image projecting and object receiving positions, a crank



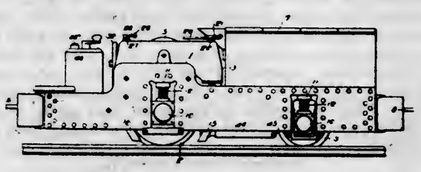
shaft journalled in said apparatus, a crank on said crank shaft, and a spring connected at one end to said crank and at its other end to said object holder.

1,424,848. JEWELER'S LOUPE. EUGENE W. PADDISON, Mount Airy, N. C. Filed Oct. 17, 1921. Serial No. 508,243. 5 Claims. (Cl. 88—41.)



1. A jeweler's loupe comprising a ring provided with a hook for engagement with the nose piece of a pair of spectacles, a lens rim, a lens therein, a link connecting said lens and rim whereby said ring and lens rim are held in spaced parallel relation, and means on said link co-operating with the above mentioned hook element for supporting said loupe in operative position, said means being adapted to seat on the pivot of an ear piece of a pair of spectacles.

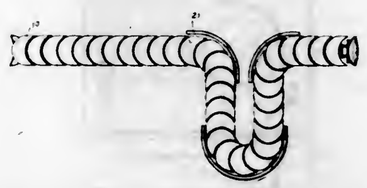
1,424,849. STORAGE-BATTERY LOCOMOTIVE. CHARLES A. PRATT, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 5, 1917. Serial No. 166,514. 9 Claims. (Cl. 105—50.)



1. A storage battery locomotive comprising a storage battery and a single, wheeled section, said section having two driving wheels, an axle connecting said driving wheels and two undriven wheels, an axle connecting said undriven wheels, said two axles fixed against relative movement in a horizontal plane and an electric motor operatively connected with said driving wheels, said undriven wheels being smaller in diameter than the driving wheels, the storage battery mounted on said wheeled section

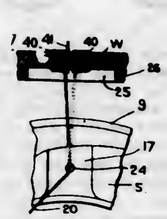
above the undriven wheels, the driving wheels being outside of the boundary of said storage battery, said storage battery fixed against movement in a horizontal plane with relation to the axle of said undriven wheels.

1,424,850. UNIVERSAL CARRIER CHAIN. BENJAMIN H. PURCELL, Terre Haute, Ind., assignor of one-third to Earnest Lawyer and one-third to Francis I. Honderik, both of Terre Haute, Ind. Filed Apr. 2, 1921. Serial No. 458,162. 6 Claims. (Cl. 198—189.)



1. A universal carrier comprising a flexible belt adapted to curve about a horizontal and a vertical axis, and means mounted on said belt adapted to provide a horizontal uninterrupted carrying surface of constant width while passing around a vertical axis so arranged as to permit said belt to return about a horizontal axis and carry articles about a vertical axis.

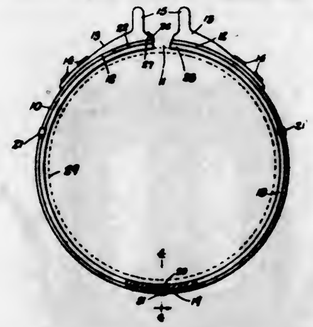
1,424,851. SEWING MACHINE. FRANKLIN A. REECE, Chestnut Hill, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed June 14, 1919. Serial No. 304,223. 5 Claims. (Cl. 112—73.)



1. In a two-thread lock-stitch buttonhole sewing machine having a needle for manipulating the upper thread and a bobbin for the under thread, which bobbin is inserted through a loop of needl thread at each stitch, the combination with said needle and bobbin, of means to interlock the needle thread and bobbin thread and to produce two parallel lines of stitching on opposite sides of the buttonhole and spaced from each other with the point of interlocking constituting the purl on the under side of the work, and a guide for the bobbin thread as it passes from the bobbin to the work, said guide being situated in a vertical plane midway between said lines of stitching.

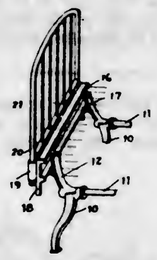
1,424,852. BRAKE-BAND LINING. ARTHUR L. RENNIE, Jamaica, N. Y. Filed June 4, 1921. Serial No. 474,936. 6 Claims. (Cl. 188—249.)

3. A brake band provided at its opposite ends with bracket plates which are secured thereto and a lining strip for said band, said lining strip being provided with transverse keepers adapted to engage the opposite side edges of the brake band and with an attaching plate having an outwardly directed rivet member adapted to be passed through a corresponding aperture in one of the bracket plates, said attaching plate being also provided



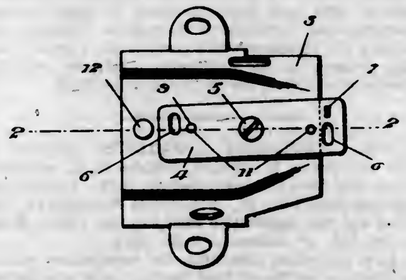
at its outer end with a hook member adapted to engage a lip on the corresponding end of said bracket plate.

1,424,853. BED. JULIUS KOEVER, Richmond Hill, N. Y. Filed Apr. 28, 1921. Serial No. 465,210. 2 Claims. (Cl. 5—16.)



1. A three-piece bed comprising a supporting element consisting of legs, rails and brackets rising from the rails and provided with supporting ledges, a bed bottom having its end rails arranged to lie on the ledges of the supporting element, said bed bottom having brackets at the ends thereof with vertical bores through said brackets, and detachable head and foot boards having their side members adapted to extend downward through the aforesaid bores of the bed bottom brackets, and means for retaining the head and foot boards in the aforesaid bores.

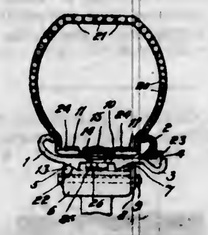
1,424,854. SEWING-MACHINE NEEDLE PLATE. EDWARD J. ROGERS, Anacortes, Wash. Filed June 23, 1921. Serial No. 479,817. 2 Claims. (Cl. 112—45.)



1. A reversible needle plate device for a sewing machine embodying a support, a double ended needle plate

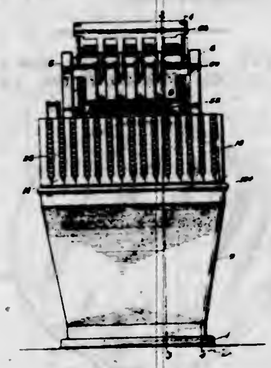
bearing on the support, a pivot member engaging through the support and mounting the needle plate for turning movement to bring either end portion into position for sewing, and a spring catch at the under side of the support engaging said pivot member to be held in position and having means engaging upwardly through the support to engage said plate for retaining it in either position.

1,424,855. TIRE. JOHN HENRY RYDER, Brooklyn, N. Y., assignor to Standard Wire Tire Corporation, New York, N. Y., a Corporation of New York. Filed May 31, 1919, Serial No. 300,956. Renewed Jan. 6, 1922. Serial No. 527,518. 4 Claims. (Cl. 152—8.)



2. In a tire, the combination of a series of tapered wires adapted to be torsially and spirally bent from one edge of the tire to the other in the form of a series of crowns that are closely associated with each other so as to constitute a flexible tubular tire, the center of the spiral twist being the center of said tubular tire, and a supporting ring for said wires having lateral flanges provided with a series of openings to receive the bent ends of the tapered wires.

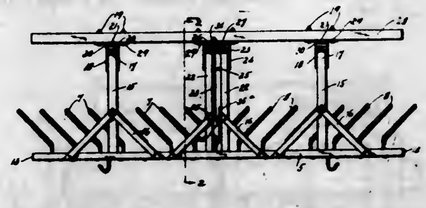
1,424,856. PUNCHING MACHINE. CHARLES W. SPICER, Towson, Md. Filed Mar. 20, 1915, Serial No. 15,856. Renewed Dec. 31, 1921. Serial No. 526,415. 60 Claims. (Cl. 164—112.)



1. A punching machine comprising a plurality of shiftable punches, means for simultaneously setting all of the punches, means for simultaneously locking them in operative position, and means for forcing the punches through a blank.

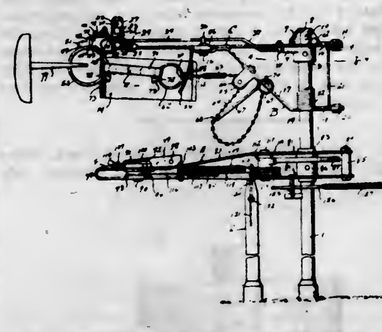
1,424,857. GROUND-TREATING IMPLEMENT. ALBERT SPRAGUE, Longmont, Colo. Filed Dec. 3, 1921. Serial No. 519,615. 1 Claim. (Cl. 55—22.)

A ground treating implement of the character described comprising a main beam, blades carried by the rear ends of said beam for supporting said beam above the ground, spaced connecting beams projecting from said rear face of the main beam, the rear ends of said beams being beveled and provided with connecting hinged sections, the end face of said connection being beveled, corresponding to the beveled ends of the connecting beams, and a scraping member having a plurality of blades secured to the forward face thereof, the intermediate



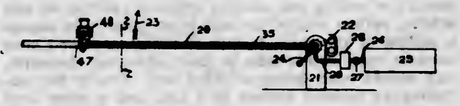
portion of each face having hinged knuckles adapted to register with the knuckles of the connecting hinged section of the beams, and adjusting means carried by certain of said beams and operatively connected to the upper portion of the scraping member for moving said scraping member relative to the ends of the beams, said beveled ends of the connecting beams serving as stops to limit adjusting movement of the scraper in one direction.

1,424,858. MAIL-BAG MECHANISM. JOHN A. STARR, Mayville, Wis. Filed Nov. 18, 1920. Serial No. 423,958. 16 Claims. (Cl. 258—26.)



1. A mail handling mechanism including a station device comprising a standard, a supporting frame rotatably mounted upon the standard, means under control of an applied mail bag for locking the crane in working position and automatically releasing the same when the mail bag is taken therefrom, automatic means for swinging the crane into a second position when the locking means is released, and a bag supporting means carried by the crane.

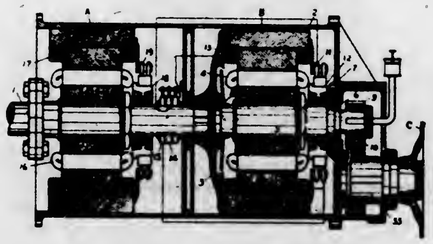
1,424,859. SIGNAL APPARATUS. WARNER T. TABB, New York, N. Y., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed May 5, 1917. Serial No. 166,673. 14 Claims. (Cl. 116—63.)



6. In apparatus of the class described, in combination, a crossing-gate, means adapted to move said gate into

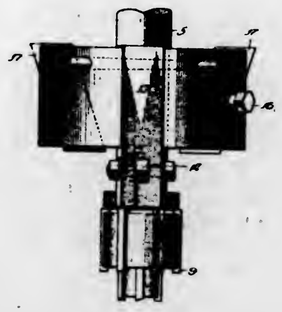
and out of operative position, a gas burner mounted upon said gate, a source of gas supply, means adapted to connect said source of supply with said burner, and means adapted intermittently to vary the supply of gas to said burner.

1,424,860. TRANSMISSION SYSTEM FOR AUTOMOBILES. HARRY L. TANNER, Brooklyn, N. Y. Filed Aug. 18, 1916. Serial No. 115,665. 10 Claims. (Cl. 290—12.)



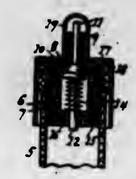
2. In a means for starting a load from a rotating power source, the combination with a primary power source and a driven element, of a dynamo electric machine comprising relatively rotatable parts one of which is coupled to said power source and another to said element, a second dynamo electric machine coupled to said source, electrical inter-connections between said machines, means for first weakening the field of said second machine, whereby the first machine acts as a generator and said second machine as a motor, means for reversing the field of said second machine relative to its armature, and means for weakening the field of said first machine whereby the load is driven entirely by said first machine acting as a motor.

1,424,861. TOOL. PETER TAYLOR, Ottumwa, Iowa. Filed June 10, 1920. Serial No. 387,814. 2 Claims. (Cl. 29—105.)



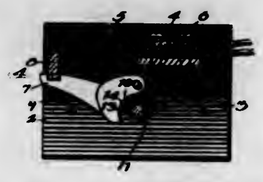
1. A tool for machining hubs and the like, including, in combination, a spindle, a head keyed to said spindle, means for holding said head in adjusted position on said spindle, cutters carried by said head adapted to engage a portion of the outer surface of a hub, a second head mounted upon said spindle in axial alignment therewith, said second head being provided with cutters for machining an interior surface of a hub, and a third head secured to said second head, said third head being provided with cutters for machining another portion of the interior of said hub.

1,424,862. BOTTLE STOPPER. HARRY D. VREDENBURGH, Brooklyn, N. Y. Filed Sept. 29, 1921. Serial No. 504,060. 4 Claims. (Cl. 215—74.)



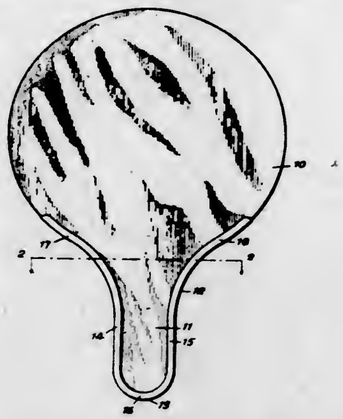
1. A bottle stopper comprising a tubular casing having a valve seat, a channeled stem surmounting the casing, a spring pressed plunger valve cooperating with the seat, and a stem projecting from the valve coacting with the channelled stem.

1,424,863. KEY-CONTROL TELEPHONE SWITCH. DON C. WALKER and BONZANO WEEKS, Memphis, Tenn. Filed Sept. 26, 1921. Serial No. 503,407. 4 Claims. (Cl. 179—189.)



4. A switch for closing an electric circuit, comprising spaced terminals adapted to yieldingly resist movement for bringing the same together to establish the circuit, a lever for moving said terminals into engagement, and a key operated mechanism adapted to move said lever to bring the terminals together and also adapted to permit the lever to return to its initial position when released and thereby opening the circuit.

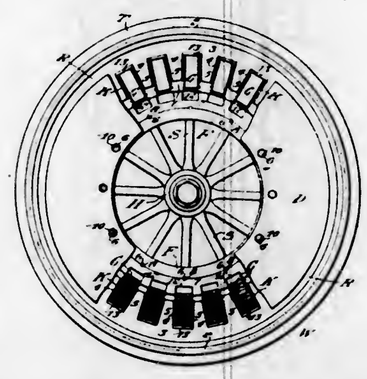
1,424,864. FAN. NATHAN WARSHAW, New York, N. Y. Filed June 15, 1921. Serial No. 477,694. 1 Claim. (Cl. 230—33.)



A fan, comprising a flexible body section with a flexible substantially U-shaped protruding portion, and a metallic tubular handle element also having an approximately

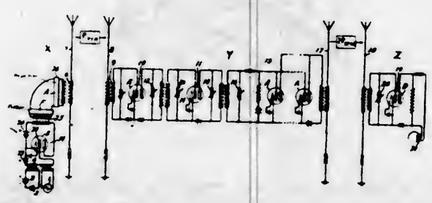
U-shaped part with the end portions of its legs being flared in outwardly diverging directions and the entire inner edge of the handle element having a continuous slot in which the marginal edge of the protruding portion and the adjacent marginal edge parts of the body section are fixedly disposed.

1,424,865. RESILIENT VEHICLE WHEEL. ALVAH WISWALL, Providence, R. I.; Edward W. Shedd administrator of said Alvah Wiswall, deceased. Filed May 22, 1919. Serial No. 299,014. 6 Claims. (Cl. 152—38.)



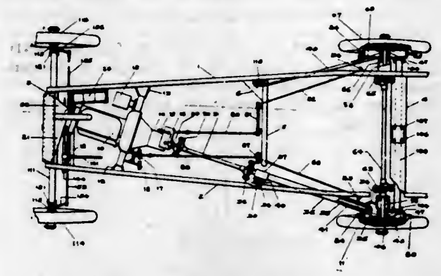
1. In a resilient vehicle-wheel, the combination with a wheel-structure having a fixed rim, of an outer floating rim surrounding the fixed rim, both of said rims formed with opposite pockets closely spaced therearound, resilient means arranged between the two rims to maintain them normally in concentric relation, and a plurality of studs mounted in the pockets of one rim to adapt them to positively engage the pockets in the opposite rim, said studs being so arranged that only a portion of their number engage between the two rims at the traction point of the wheel when the outer rim is carried into eccentric relation with the inner fixed rim.

1,424,866. METHOD AND MEANS FOR RELAYING MODULATED CARRIER WAVES. PETER I. WOLD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 17, 1917. Serial No. 149,213. 11 Claims (Cl. 250—15.)



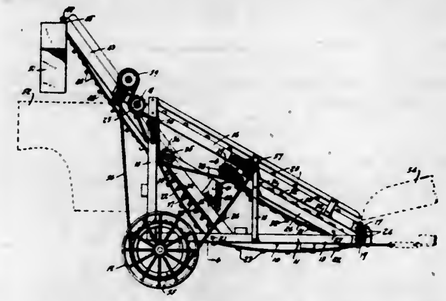
11. A transmission system comprising means for producing a carrier wave, means for modulating said wave, means for suppressing one of the components of the modulated wave, and means for distorting the wave form of the resulting energy by combining its components to produce a second carrier wave of different frequency modulated in the same manner as the first mentioned carrier wave.

1,424,867. AUTOMOTIVE VEHICLE. AUSTIN M. WOLF, Plainfield, N. J. Filed Dec. 8, 1919. Serial No. 343,155. 30 Claims. (Cl. 180—70.)



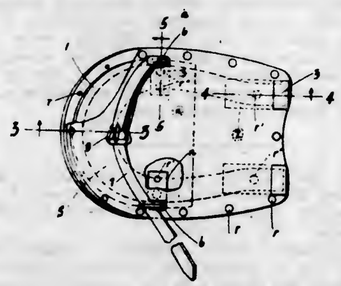
1. An automotive vehicle, comprising a chassis frame, an engine placed with its shaft at an angle with the longitudinal axis of the chassis, a propeller shaft connecting said engine shaft with one of the rear wheels and lying in line with said engine shaft, and a direct power transmitting connection between said rear wheel and the other rear wheel.

1,424,868. POTATO PICKER. AUGUST F. ZABEL and RALPH V. TOWNSEND, Minnesota Lake, Minn. Filed Apr. 22, 1922. Serial No. 556,022. 9 Claims. (Cl. 130—32.)



1. In a potato picker, a cleaning apparatus comprising an inclined conveyor, means for feeding the potatoes thereto, and means carried by the conveyor for engaging the potatoes and worming the same to one side of the conveyor.

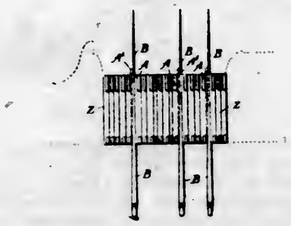
1,424,869. LAWN HORSESHOE. CHARLES ZINGER, Webster Groves, Mo. Filed Jan. 5, 1921. Serial No. 435,092. 3 Claims. (Cl. 168—3.)



1. A lawn horseshoe comprising a metallic stiffening plate, layers of leather bounding the same, notches in

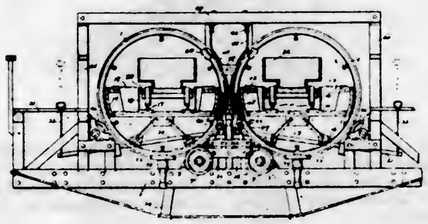
said plate, and anchor plates positioned in said notches and extending beyond said layers of leather to form means for attaching the shoe to a hoof.

1,424,870. JUSTIFYING SPACER OR SPACE BAND. JAMES H. BECK, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Mar. 28, 1921. Serial No. 456,330. 11 Claims. (Cl. 199—68.)



1. A justifying spaceband comprising a relatively stationary wedge-shaped member, and a movable cooperating wedge-shaped member slidably connected thereto, said movable member being slotted and presenting two marginal bars extending in the direction of its movement and an intermediate bar extending in the same direction and serving to add strength and rigidity to the movable slotted member during the justifying action.

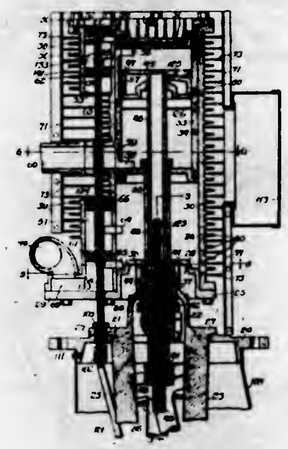
1,424,871. AUTOMATIC REVOLVING DUMP. EDWIN J. BEST, Woodward, Ala. Filed July 14, 1919. Serial No. 310,810. 17 Claims. (Cl. 214—52.)



1. An automatic rotary dump comprising a rotatable cage, means to unbalance the cage, releasable latch means to hold the dump against rotation when thus unbalanced, and fly-wheel means supported independently of and rotatable with the cage, said fly-wheel means being adapted by its inertia to retard the starting movement of the cage and to store up sufficient energy from an automatic gravitating movement of the unbalanced cage to positively return it to initial position.

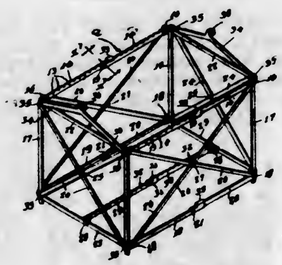
1,424,872. EXPLOSION ENGINE. RANSOM Y. BOYER, Maywood, Ill., assignor of one-half to Orlando J. Buck, Chicago, Ill. Filed Nov. 27, 1917. Serial No. 204,192. 38 Claims. (Cl. 123—62.)

1. An explosion engine embodying a cylinder having an intake and an exhaust port, a hollow piston reciprocable therein and closed with the exception of a port, a piston within the hollow piston and reciprocable axially with relation thereto, said port in the piston being movable into operative relation to the said intake of the cylinder for permitting the entrance of a charge of fuel into the hollow piston and between said pistons, and out of such relation, means for relatively reciprocating the pistons to compress the charge therebetween, and



provisions for transferring said compressed charge from between the pistons into the cylinder and between the end of the cylinder and hollow piston to be exploded, and an ignition chamber exterior to the cylinder, said charge during such transfer passing the ignition point in said chamber during the ignition period.

1,424,873. FILM-TREATMENT CAGE. AUGUSTUS G. BOXELL, Los Angeles, Calif. Filed July 19, 1919. Serial No. 312,050. 3 Claims. (Cl. 95—109.)



1. A film-treatment cage comprising uprights, notched upper members supported by the uprights, and a notched lower member connected with the uprights, the notches being adapted to engage film-holding frames.

1,424,874. FOUNTAIN WASHING DEVICE. FRANK M. BRADBROOK, Elmira, N. Y. Filed June 14, 1921. Serial No. 477,472. 1 Claim. (Cl. 15—127.)

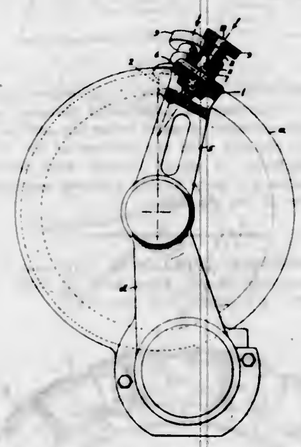
A fountain washing device of the class described comprising an elongated hollow container having a rigid

tube at one end communicating with the interior thereof and adapted for attachment to a flexible hose, one side wall of the container having a plurality of perforations therein and being of outwardly curved form in transverse



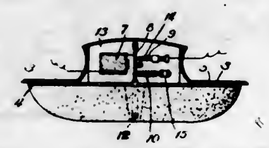
section, a cloth enclosing the side walls of the container in contact therewith and extending from the first named end of the latter to a point beyond the other end thereof, and means encircling the cloth and container for retaining the cloth in position flatly engaging said container.

1,424,875. SHARPENER FOR MEAT-SLICING MACHINES. WILLIAM F. H. BRAUN, Philadelphia, Pa., assignor to The Braun Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 24, 1921. Serial No. 472,189. 2 Claims. (Cl. 51—247.)



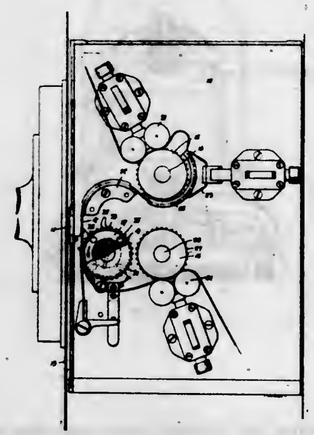
1. A knife sharpener for slicing machines comprising the combination of two sharpeners each of the form of a conic frustum and provided with generally upright spindles, of which one is inclined to the knife plane to present the conical face of its sharpener to the flat knife face and of which the other is inclined in a plane parallel to the knife plane to present the conical face of its sharpener to the beveled knife face in sharpening or skew relation, a guide for positioning the spindles in the described relation and in which the spindles are free for affording gravity rolling contact of the shapeners with the knife, and manual means for lifting and holding the sharpeners out of action.

1,424,876. MANICURING INSTRUMENT. MILTON H. BURK and EDITH MAY CURRIER, St. Joseph, Mich. Filed Feb. 10, 1922. Serial No. 535,606. 10 Claims. (Cl. 132—73.)



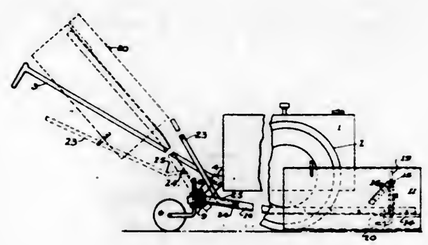
7. A buffing or polishing device adapted for use as a manicuring instrument, comprising a top plate having a hollow handle on the upper surface thereof, an elongated buffer slidable endwise back and forth on the bottom of said plate, provided with a surface covering adapted for polishing the finger nails, the buffer being rounded and shaped substantially like that of an ordinary manicuring instrument, and means enclosed in said handle to rapidly vibrate said buffer in a straight line while said handle is held in the hand of the user, thereby to obviate the necessity of reciprocating the buffer manually during the manicuring of the nails.

1,424,877. FILM SPROCKET WHEEL FOR MOVING-PICTURE MACHINES. HAGAR B. BYRON, New York, N. Y. Filed May 28, 1921. Serial No. 473,541. 5 Claims. (Cl. 88—17.)



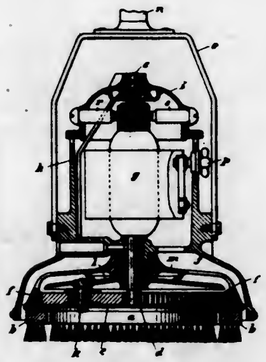
1. A film sprocket wheel for moving picture machines provided with teeth having bi-cone side faces and involute front and rear driving faces.

1,424,878. SNOWPLOW. HARRY R. CANFIELD, Cleveland, Ohio. Filed Feb. 9, 1920. Serial No. 357,284. 13 Claims. (Cl. 37—57.)



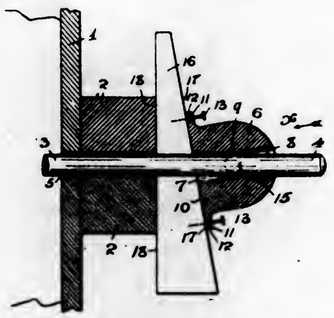
1. A tractor, a snow plow propelled thereby, a horizontal transverse pivot for the plow on the tractor on which the plow may turn to pass over ground obstacles, and a handle to turn the plow on the pivot.

1,424,879. WAXING OR POLISHING BRUSH. SVEN MANFRED CARLSTEDT, Stockholm, Sweden, assignor to Aktiebolaget Lux, Stockholm, Sweden. Filed Nov. 2, 1918. Serial No. 260,851. 3 Claims. (Cl. 15—49.)



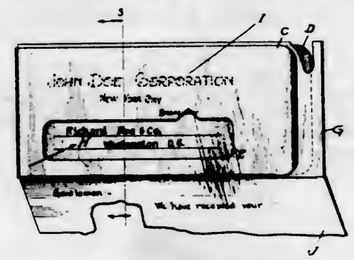
1. A waxing and polishing brush comprising a casing, a motor in said casing, a motor shaft extending below the casing, a brush-member rotatably mounted below said casing and operatively connected by gearing with said shaft, and a brush-ring outside said member rotatably mounted on said casing and operatively connected to said gearing.

1,424,880. HOLDING OR TYING MEANS FOR MOLDING APPARATUS. SAMUEL S. COLT, Orange, N. J. Filed July 28, 1921. Serial No. 488,056. 15 Claims. (Cl. 25—131.)



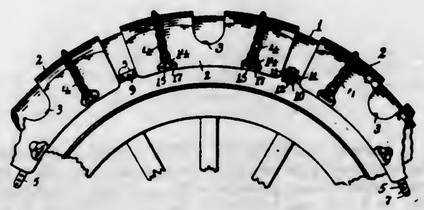
10. A wedge-engaging holding or tying element comprising a body provided with oppositely disposed truncated cone-shaped duct-portions for oscillatorily mounting said element upon a rod.

1,424,881. HAND LETTER FOLDER. JOSHUA L. COWEN, New York, N. Y. Filed Nov. 7, 1919. Serial No. 336,331. 5 Claims. (Cl. 120—8.)



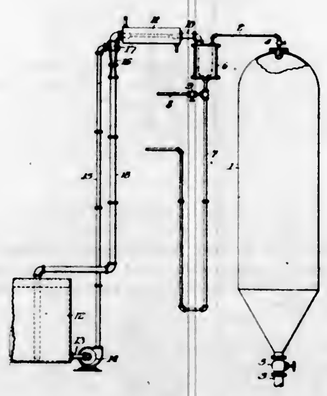
1. A folding device for folding an enclosure for a window envelope comprising a positioning member adapted to position the enclosure so as to bring the address thereon in positive registry with the window of the envelope when said enclosure is placed therein, said positioning member comprising a plate having a recess corresponding to the window of the envelope.

1,424,882. NONSKID APPLIANCE. GIOVANNI S. CUCCHIARA, Needham, Mass. Filed Jan. 11, 1921. Serial No. 436,577. 4 Claims. (Cl. 152—16.)



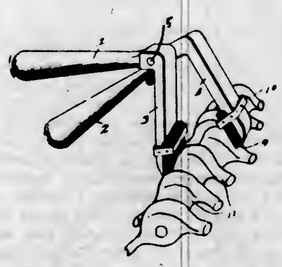
4. A non-skid appliance comprising a series of pads, bars imbedded therein and terminally projecting therefrom, and means for attaching said bars one to another embracing an offset plate having a hole near each end, a hook having a threaded stem slidable in each hole, and a nut turning on each stem, said hooks being adapted to be engaged with adjacent ends of two bars.

1,424,883. PROCESS AND APPARATUS FOR PREPARING SULPHITE DIGESTION LIQUOR. DAVID B. DAVIES and EDWARD P. STRONG, Munising, Mich. Filed June 1, 1920. Serial No. 385,708. 8 Claims. (Cl. 92—2.)



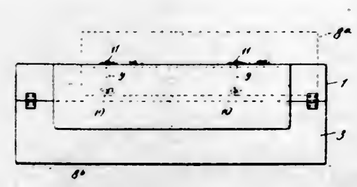
1. The process of preparing sulphite digestion liquor, which consists in withdrawing the liquor from a storage tank, circulating the same in a confined current and returning it to the tank at a point below the surface of the liquor therein, and aspirating sulfurous acid gas into the circulating current of liquor to effect the absorption of the gas thereby.

1,424,884. CLAMP. GRANVILLE MAY DEANE, Dallas, Tex. Filed Jan. 12, 1921. Serial No. 436,767. 2 Claims. (Cl. 128—69.)



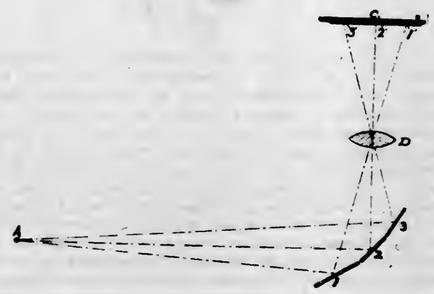
1. A device of the character specified, comprising a pair of handle members each having at one end an angular jaw, a rod on which the two handle members are pivoted alongside each other, the jaw of one handle member being spaced further away from the pivoted pin than the jaw of the other handle member for the purpose specified, and cushioning pads on the engaging faces of the jaws.

1,424,885. COMBINED CABINET AND PIANO. JOSEPH HUNTER DICKINSON, Larchmont, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Nov. 5, 1918. Serial No. 261,240. 1 Claim. (Cl. 211—16.)



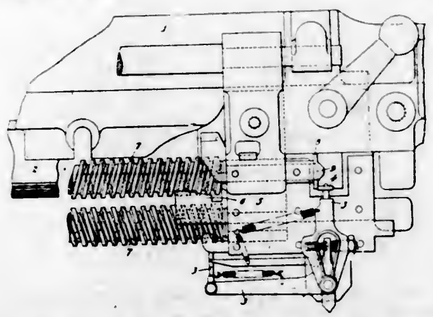
The combination with an upright piano having a lid for the top thereof, the front section of said lid being hinged to swing upwardly and thus uncover an opening in the top of the piano through which access may be had to the interior thereof, of a cabinet, and a pair of horizontally swinging arms having relatively offset vertical pivots at their opposite ends, the pivots on respective ends of the arms being rotatably connected to the cabinet at points toward its opposite ends, and the pivots at the opposite ends of the arms having means for rotatably supporting them at the back of the piano adjacent to its top, said arms being of such length and so operative that while they are at the limit of their forward movement they support the cabinet in superposed parallel relation with the top of the piano and when swung rearwardly they support the cabinet in parallelism but offset rearwardly of the rear edge of the front hinged section of the lid.

1,424,886. METHOD AND APPARATUS FOR PRODUCING MULTIPLE-IMAGE EFFECTS IN PHOTOGRAPHY. LEON F. DOUGLASS, Menlo Park, Calif. Filed Oct. 31, 1921. Serial No. 511,882. 18 Claims. (Cl. 95—18.)



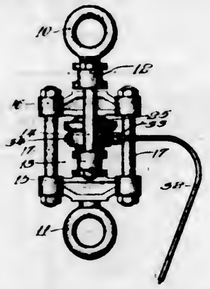
1. The method of producing variable multi-image effects on a single sensitised film, which comprises interposing in the path of light rays from an object to be photographed, a plurality of elements capable of directing a plurality of images onto said film and successively exposing the film to a series of laterally disposed images.

1,424,887. DISTRIBUTING MECHANISM OF TYPOGRAPHICAL COMPOSING MACHINES. TOM DRAKE and ROBERT DUDLEY CARTER, Broadheath, England, assignors to Linotype and Machinery Limited, London, England, a Limited Liability Company of Great Britain. Filed Apr. 9, 1921. Serial No. 459,865. 5 Claims. (Cl. 199—41.)



1 Distributing mechanism such as described, having a distributor bar, and a plurality of distributor screws, characterized by means for feeding a plurality of matrices to the distributor screws during each revolution of the latter.

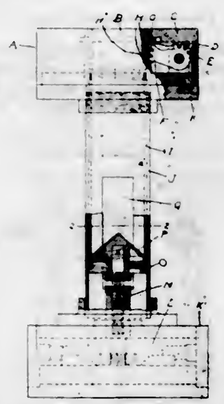
1,424,888. DYNAMOMETER. CLARENCE M. EASON, Moline, Ill., assignor to Hyatt Bearings Division, General Motors Corporation, Newark, N. J., a Corporation of Delaware. Filed May 20, 1920. Serial No. 382,727. 6 Claims. (Cl. 265—47.)



1. In a dynamometer the combination of attaching members, a proximate and a distant cross head, the spaced side connections for each of the attaching members standing in angular relation to one another and subtending an interior space, the cross heads and attaching members comprising open compression frames in interlinked relation, oppositely disposed compression members carried by the respective compression frames an interposed capsule for containing liquid located between the compression members and within the space subtended by the compression frames, and a flexible connection in communication with the interior of the capsule for transmitting variations of pressure, substantially as described.

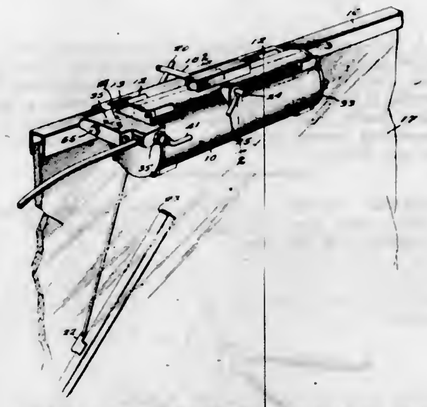
1,424,889. CHUCK. DON N. FINLAYSON, Flat Rock, Mich., assignor to Detroit Pneumatic Chuck Company, Flat Rock, Mich., a Corporation of Michigan. Filed Mar. 26, 1920. Serial No. 369,124. 4 Claims. (Cl. 279—119.)

1. The combination with a chuck having a central enlarged aperture extending therethrough, an annular wall extending inwardly from the chuck face, radially movable jaws and a longitudinally movable sleeve telescoping over the wall for operating said jaws, of a tube connected with said chuck and forming an extension of the central aperture therein, a motor mounted on the opposite end of said tube, an inner tube connected at one end to the actuating member of said motor and at



its opposite end to said longitudinally movable sleeve, and a deflector within said inner tube for directing the chips outward through registering apertures in said inner and outer tubes.

1,424,890. WINDSHIELD CLEANER. WILLIAM M. FOLBERTH, Cleveland, Ohio. Filed Dec. 29, 1919. Serial No. 348,175. 17 Claims. (Cl. 121—164.)

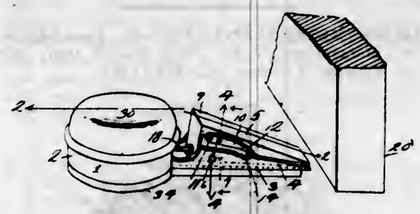


1. Valve actuating mechanism for windshield cleaners having a cylinder, a reciprocating piston, and means for connecting said cylinder to a source of suction, said valve actuating mechanism comprising a shiftable valve, a pivoted valve supporting member, a spring connected thereto, a second pivoted member, said spring being connected to said second pivoted member, and means actuated by the movement of the piston for shifting the end of said spring to opposite sides of the pivot point of the pivoted supporting member.

1,424,891. BURGLAR ALARM. JAMES A. FOLEY, Omaha, Nebr. Filed Sept. 1, 1921. Serial No. 497,530. 3 Claims. (Cl. 116—32.)

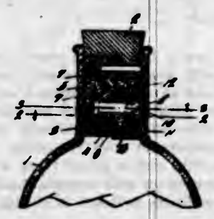
2. The combination with a door actuated burglar alarm comprising a base having a spring actuated bell ringing mechanism at one end thereof and controlled through the medium of a longitudinally disposed and movable shaft,

of a door engaging wedge carried by said bore, said door engaging wedge being loosely connected to the outer end of the shaft, said wedge shaped member being pivoted vertically and longitudinally movable in the base, a



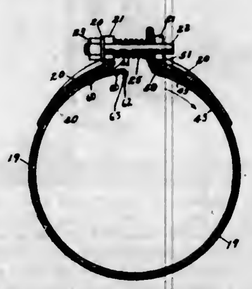
gravity actuated pawl carried by said door engaging wedge and cooperating with a notch in the base, and a stop carried by the wedge for limiting the downward movement of the pawl and so positioned that when the wedge is rocked on its pivotal point the pawl will be moved out of engagement with the notch.

1,424,892. NONREFILLABLE BOTTLE. SAMUEL E. FREED, East Palestine, Ohio. Filed Aug. 1, 1921. Serial No. 488,949. 3 Claims. (Cl. 215—21.)



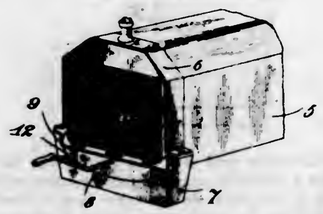
1. In a non-refillable bottle, a lower valve part having a valve-receiving opening and a tongue projecting over the opening at the bottom thereof, a slidable valve normally reposing in said opening and having an outlet passage normally closed at its upper end by the wall of the opening and at its lower end by the said tongue, and an upper valve part having a recess into which the said valve may slide to uncover the outlet passage when the bottle is inverted, said upper valve part also having an outlet passage communicating with said recess whereby the contents of the bottle may be discharged therethrough.

1,424,893. TRANSMISSION AND LINING FOR THE BANDS THEREOF. JOSEPH GALAMB, Detroit, Mich., assignor to Ford Motor Company, Detroit, Mich., a Corporation of Delaware. Filed Aug. 9, 1920. Serial No. 402,369. 10 Claims. (Cl. 188—259.)



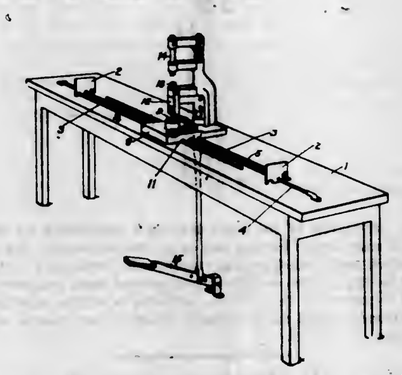
5. A lining for transmission bands adapted to be loosely received between a band and drum, comprising a strip of heavy fabric having flexibility and resiliency whereby one end thereof may be forced around a drum between the drum and band, and a strip of comparatively rigid reinforcing material secured to one end of the lining, said strip being also adapted to form one member of an attaching and supporting device.

1,424,894. CRANK-HOLDING ATTACHMENT. AIMÉ GENDRON, Montreal, and CHARLES BRIÈRE, Beauharnois, Quebec, Canada. Filed Feb. 17, 1921. Serial No. 445,789. 2 Claims. (Cl. 74—33.)



1. A device of the character described, including a plate, ears extending from said plate, an arm pivoted between said ears, a forked terminal provided upon said arm and a spring attached to the plate for engaging said arm and retaining the same in operative and inoperative positions.

1,424,895. CENTERING DEVICE. LOUIS B. GIRARD and FRED L. MENELEY, Los Angeles, Calif.; said Meneley assignor to said Girard. Filed Mar. 30, 1921. Serial No. 457,127. 2 Claims. (Cl. 164—91.)

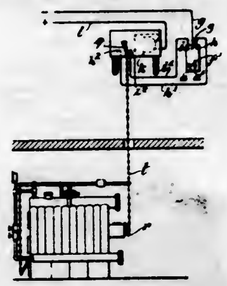


1. In combination with a punching means having a base provided with a fixed die member, a centering device comprising two parallel rods guided in said base and provided with teeth and a fixed gear wheel mounted to turn in said base coaxially with said die member and adapted to engage the teeth of said rods to cause equal movement thereof in opposite directions, and stop means carried by the respective rods, said stop means being equidistant from the center of said die means.

1,424,896. THERMOSTATIC ELECTRIC CONTROL FOR HEATING SYSTEMS. EDWARD E. GOLD, New York, N. Y., assignor to Gold Car Heating & Lighting Company, New York, N. Y., a Corporation of New York. Filed Dec. 15, 1919. Serial No. 344,870. 4 Claims. (Cl. 236—74.)

1. Apparatus for the thermostatic electric control of heating systems including, in combination, an expansible vessel adapted to be moved bodily, an electric motor, de-

vices the movement of which is initiated by the expansible vessel to control the circuit of the motor, a controlled element in the heating system operatively connected to the motor, an adjustable seat for the thermostat, a slidable



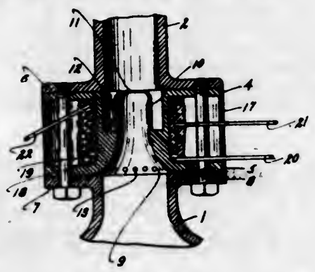
rack for adjusting said seat and moving the thermostat bodily, and a manually operated indicator arm operatively connected to the rack and movable over a temperature scale to indicate the temperature range of effective operation of the thermostat adapted to control the apparatus.

1,424,897. HAIR CURLER. JOSEPH GOLDSMITH, Jr., Chicago, Ill. Filed Feb. 11, 1922. Serial No. 535,691. 2 Claims. (Cl. 132—42.)



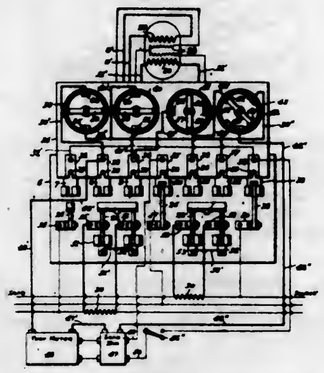
1. An article of the class described comprising an elongated wire frame having one of its ends inwardly bent to form an open-ended loop or recess, said frame at its other end having its two side members twisted upon one another and terminating in a recess and means within said last-mentioned recess for releasably retaining an elastic band therein.

1,424,898. GAS HEATER AND VAPORIZER. THOMAS W. GORMAN, Spokane, Wash. Filed Feb. 23, 1921. Serial No. 447,314. 6 Claims. (Cl. 219—38.)



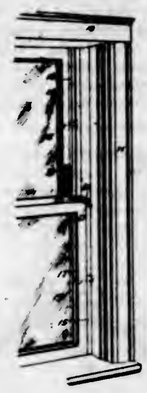
1. The combination with the manifold and carbureter, of an interposed bushing having a mixing chamber and formed with a nozzle disposed centrally therein, said bushing having air ducts leading to the mixing chamber and means for controlling admission therethrough, and a heating element surrounding said bushing for the purpose described.

1,424,899. METER-TESTING DEVICE. JOHN LEE GRAYSON, Morgantown, W. Va. Filed Jan. 17, 1921. Serial No. 437,878. 7 Claims. (Cl. 175—183.)



2. A testing device for meters embodying a terminal-board provided with a series of contact- terminals adapted to contact with and be supported upon a series of fixed terminals connected with the current and potential circuits of a meter, a series of make-and-break switches secured upon the terminal-board and including a single pole, double throw switch, and a plurality of wire connections permanently mounted on said terminal-board and connecting said make-and-break switches in circuit with said contact-terminals.

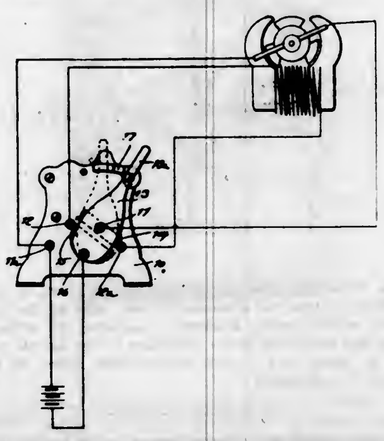
1,424,900. SASH LOCK. EUGENE GUSY, Buffalo, N. Y. Filed July 7, 1920. Serial No. 394,516. 1 Claim. (Cl. 292—57.)



A sash lock for connecting two sash members of a window which are slidable vertically and also movable laterally relatively to one another, comprising a horizontal guide tube adapted to be mounted on one of said members and provided with a longitudinal slot, a vertical guide adapted to be mounted on another of said members and provided with a longitudinal slot which is T-shaped in cross-section, and a locking rod slidable and rotatable in said guide tube and having a T-shaped head at its front

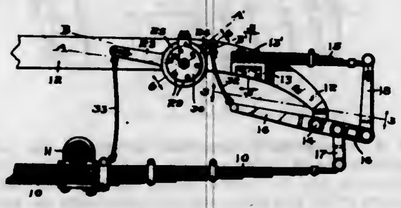
end which engages with said T-shaped slot and a stop at its rear end adapted to engage with the inner end of said horizontal guide, and the inner part of the periphery of said rod being provided with a longitudinal feather adapted to engage the slot in said horizontal guide-way while the outer part of said periphery is cylindrical, said head sliding vertically in said T-shaped slot upon raising or lowering either of said sash members, and said feather being adapted to engage the slot of said horizontal guide tube upon moving either of said sash members laterally relatively to the other, and said stop being adapted to limit such lateral movement.

1,424,901. MOTOR SWITCH. DOUGLAS R. HARPER, Cameron, Tex. Filed Apr. 9, 1921. Serial No. 460,051. 2 Claims. (Cl. 200—6.)



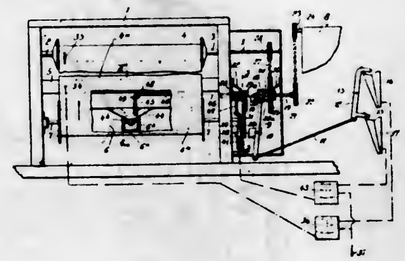
1. A reversing switch comprising in combination a support, a pair of contacts mounted upon the support, a third contact likewise mounted upon the support, an insulating member mounted for oscillation upon the last named contact of a conductor carried by said member and electrically connected with said last named contact and adapted to alternately engage the contacts of the pair when the member is oscillated, a second conductor carried by said member and likewise adapted to alternately engage the contacts of said pair, the engagement of the second conductor with the contacts being alternated with their engagement by the first named conductor.

1,424,902. SHOCK-ABSORBING DEVICE FOR VEHICLES. ROBERT H. HASSLER, Indianapolis, Ind. Filed June 17, 1921. Serial No. 478,239. 3 Claims. (Cl. 267—19.)



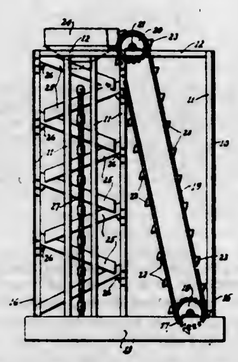
1. A resilient suspension system for vehicles which comprises the combination of a vehicle frame member, a main spring, a supplemental leaf spring supported by the vehicle member, a lever supported intermediate its ends in said vehicle member, means for pivotally connecting the adjacent end of the main spring to the lever between its point of connection with the frame member and its rear end, means for connecting the free end of the supplemental spring and the rear end of the lever together, a friction device arranged on the frame member, a one-way connector for connecting the friction device and the forward end of the lever together, and a second one-way connector for connecting the friction device with the main spring.

1,424,903. AUTOMATIC MUSICAL INSTRUMENT. ROBERT HEAD, New York, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Sept. 10, 1918. Serial No. 253,446. 3 Claims. (Cl. 84—122.)



1. In combination with an automatic musical instrument using a music-sheet, the front end of the music sheet having an imperforate portion; a take-up spool to which the front end of the music-sheet is attachable and which is adapted to be rotated to take up said sheet, said spool having an annular peripheral recess; a finger at the take-up spool yieldingly tending to move into said recess but being prevented by the said imperforate portion of the sheet when the sheet is wound around said spool; and pneumatic means comprising a controlling port and valve therefor, said valve being operated from the aforesaid movement of the finger relatively to said recess when the latter is uncovered by said imperforate portion of the front end of the music sheet.

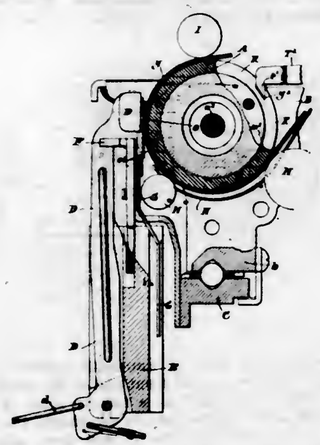
1,424,904. SAND-DRYING DEVICE. FRANK X. HEINDL, Kersey, Pa. Filed Oct. 1, 1921. Serial No. 504,694. 3 Claims. (Cl. 34—37.)



3. A device of the character described comprising an enclosed upright frame having an open top, an upwardly traveling conveyor extending along the forward portion of the frame, a series of oppositely inclined chutes mounted within the frame and pivotally connected therewith at their upper ends and discharging into one another, the free ends of the chutes bearing upon the chute next be-

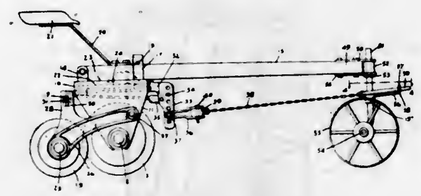
low adjacent the pivoted end thereof, heating means beneath each chute, and means for independently vertically adjusting the pivotal connection of said chutes with said frame.

1,424,905. TYPEWRITING MACHINE. EDWARD B. HESS, New York, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 21, 1922. Serial No. 555,853. 15 Claims. (Cl. 197—144.)



1. An auxiliary platen for typewriting machines, comprising a strip of suitable rigid material co-extensive in length with that of the main platen, and curved on opposite sides to conform to the curvature of the main platen, in combination with supports at its ends for holding it to turn about the longitudinal axis of the main platen while in contact therewith and which are provided with detent devices.

1,424,906. CLOD CRUSHER AND PACKER. JOHN I. HOKE and LYNN I. HOKE, South Bend, Ind. Filed May 28, 1921. Serial No. 473,527. 17 Claims. (Cl. 55—21.)



1. In a land pulverizer, the combination of a cultivating device supporting frame, a second frame adapted to support a second cultivating device, means pivotally connecting said second frame to said first frame for rocking movement upon a longitudinal axis, and other means pivotally connecting said second frame to said first frame for rocking movement upon a transverse axis.

1,424,907. TELEGRAM HOLDER. JOHN A. HULIT, Chicago, Ill. Filed Nov. 23, 1921. Serial No. 517,215. 7 Claims. (Cl. 129—35.)

1. In a holder, a standard, a base therefor, a spring extending upward and then over the top of the standard and then downward a distance to bear against one side thereof, with an arch in the top of the spring to clear the top of the standard, means to secure the spring to the other side of the standard near the top thereof, the lower end portion of the spring being curved to facilitate
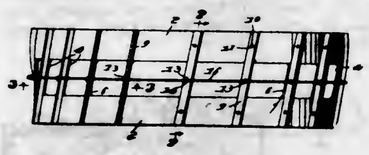


access between it and the side of the standard, a screw inserted through the standard to bear against the inner surface of the spring, whereby to regulate the action of the spring relatively to the thickness of the article to be held in place, and a lock nut on said screw to bear against the standard.

1,424,908. COATING COMPOSITION OR PAINT. MONE R. ISAACS, Philadelphia, Pa., assignor to United Products Corporation of America, Philadelphia, Pa., a Corporation of Delaware. Filed July 30, 1919. Serial No. 314,363. 15 Claims. (Cl. 134—50.)

2. A composition of matter adapted for use as a coating composition or paint, comprising casein, an alkali, a soluble fluoride, and binding and filling material.

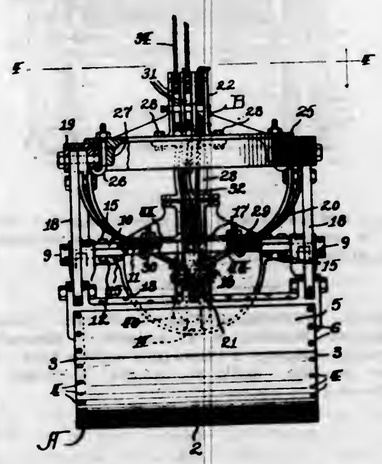
1,424,909. TRACTOR WHEEL. MATHIAS V. JARECKI, Columbus, Nebr. Filed Mar. 11, 1922. Serial No. 542,973. 5 Claims. (Cl. 301—52.)



4. A tractor wheel comprising a pair of rim bands relatively spaced, holding plates connected to the inner surfaces of the rim bands, tractor lugs on the exterior surfaces of the rim bands and in register with the plates, means on the rim bands operatively engaging said lugs to assist in holding them in position, a tire band encircling about the lugs substantially centrally between the rim bands, said tire band being disposed radially of the wheel, and staples straddling the tire band and passing through the lugs and through the plates and provided with means on their inner ends for securing

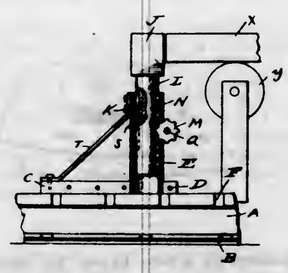
the bars together, and interconnecting means between the tire band and the lugs, to insure against relative movement of said parts.

1,424,910. BUCKET AND HOISTING APPARATUS. FRED A. JOHNSON, St. Paul, Minn. Filed Oct. 16, 1919. Serial No. 331,136. 8 Claims. (Cl. 37—30.)



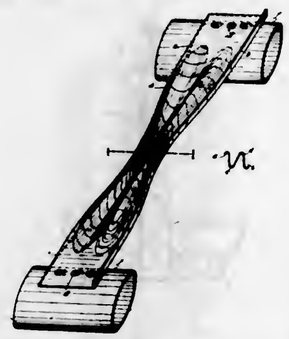
1. The combination of a grab bucket, a circular head member having an opening formed in the center thereof, a plurality of bucket sections, pivotally connected to said head member, a circular operating member positioned below said circular head member and connected to the buckets, and operating blocks detachably mounted on said circular head and operating member and adapted to be drawn through the opening in said head and removed therefrom.

1,424,911. ADJUSTABLE STANDARD-LENGTH-RAIL SPOTTER. HARRY A. JONES and EDWARD W. STRUVE, Parsons, Kans. Filed Jan. 20, 1920. Serial No. 352,656. 4 Claims. (Cl. 20—67.)



1. A device of the character specified comprising an elongated support, a base slidable on the support, a latch mounted upon the base and adapted to engage notches in the support to secure the base in the required adjusted position, and stop means carried by the base.

1,424,912. PANEL ROD. HUGO JUNKERS, Dessau, Germany. Filed June 28, 1920. Serial No. 392,580. 5 Claims. (Cl. 189—37.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A sheet metal panel rod comprising flat end portions and a middle portion contracted transversely and having a longitudinal corrugation formed therein.

1,424,913. GATE-OPERATING MECHANISM. FRANK KAHLER, Dillon, Mont. Filed Nov. 30, 1920. Serial No. 427,408. 6 Claims. (Cl. 39—55.)

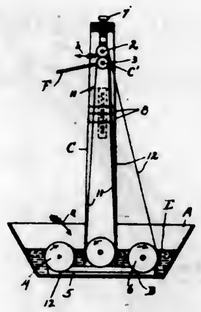


1. In a gate operating mechanism, a base consisting of a member having a vertical bore the side wall of which has upper and lower inclined ways and passages connecting the same at their ends and intermediate their ends, the upper way being downwardly inclined from the intermediate passage and the lower way being downwardly inclined from the end passages, a gate supporting member seating in the aforesaid bore and movable vertically therein, said member having a stud for engagement with the inclined ways, and normally positioned in line with the intermediate passage, means for blocking the end passages, means for moving the supporting member upwardly to locate its stud in position to engage the upper way, and means for retracting the blocking means to permit travel of the stud to the lower way.

1,424,914. WETTING AND WRINGING MACHINE FOR BOX-TOE DOUBLERS IN SHOES. EDWARD C. KANE, Binghamton, N. Y. Filed Feb. 9, 1920. Serial No. 357,414. 5 Claims. (Cl. 91—31.)

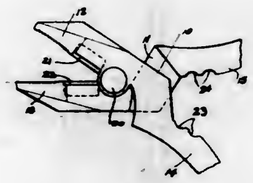
1. In a dipping and wringing machine, for box toe doublers, a portable vat, for emersing fluid or liquid therein; a portable frame removably mounted therein, having within it a series of rollers, some of which are partially emersed within the liquid, but 2 of which are out of the liquid and have adjustable pressure between

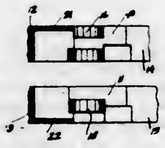
them; conveyor belts mounted on said rollers, having frictional contact with each other; means for adjusting the tension of said belts, a receiving platform mounted



on said frame, means for continuous turning of said rollers and belts in a forward movement, and adjustable removable means connected with the frame for stabilizing the roller frame within the vat.

1,424,915. PLIERS. ELIAS AUGUST KAUFFMAN, Chicago, Ill., assignor to K. T. Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 23, 1920. Serial No. 412,235. 5 Claims. (Cl. 7—3.)

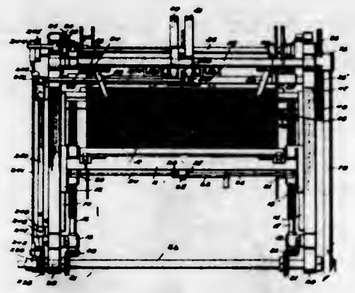




3. A pair of pliers comprising two jaw members, a pivot pin for pivotally connecting said jaw members together, and oppositely disposed cutting blades on said members extending into contact with said pivot pin, the metal being cut away from said blades and said pivot pin to permit such extension, substantially as described.
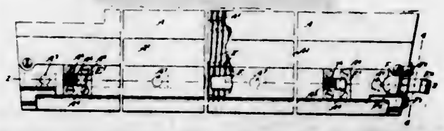
1,424,916. PAPER-FEEDING MECHANISM. WILLIAM M. KELLY, Jersey City, N. J. Original application filed Oct. 13, 1916, Serial No. 125,429. Divided and this application filed Apr. 10, 1920. Serial No. 372,816. 23 Claims. (Cl. 271—62.)

1. In a sheet feeding mechanism, a vertically movable table for supporting and elevating a pile of sheets comprising vertically arranged screws at the sides of said table for moving the latter, nuts pivoted to the table and adapted to swing into and out of engagement with said screws, a handle pivoted on said table, and links con-



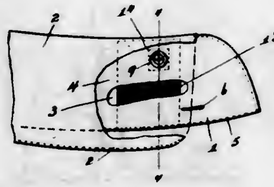
necting said handle with said nuts arranged to lock the nuts in engagement with the screws when the handle is in an extreme position.

1,424,917. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Nov. 16, 1921. Serial No. 515,454. 8 Claims. (Cl. 199—44.)



1. A linotype magazine provided with a matrix locking bar shiftable longitudinally in opposite directions, means for projecting the bar into the magazine as it is shifted in one direction and positively-acting means for withdrawing the bar from the magazine as it is shifted in the opposite direction.

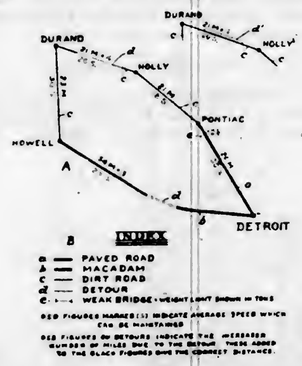
1,424,918. FOLD COLLAR. RICHARD OAKLEY KENNEDY, ALEXANDER H. GILLESPIE, and RICHARD C. MARSHALL, Troy, N. Y., assignors to Cluett, Peabody & Co., Inc., Troy, N. Y., a Corporation of New York. Filed May 19, 1919. Serial No. 298,196. 9 Claims. (Cl. 2—67.)



1. A launderable article having an attached button and having an area occupied by said button of substantially less thickness than the permanent area immediately adjacent to and on diametrically opposite sides of the area occupied by the button.

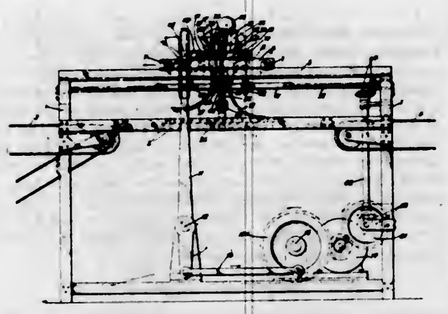
8. A launderable article having an attached button and having an area immediately surrounding the location of said button permanently of substantially greater thickness than the area occupied by said button.

1,424,919. ROAD MAP. HARRY C. KESSLER, Warrington, Pa., assignor to Breuker & Kessler Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 27, 1921. Serial No. 464,901. 8 Claims. (Cl. 283—34.)



1. An automobile road map having marks indicative of localities, lines indicative of roads connecting localities, figures adjacent said lines indicative of mileage between localities on roads indicated by such lines, and other figures adjacent said lines indicative of practicable speeds obtainable on such roads between such localities.

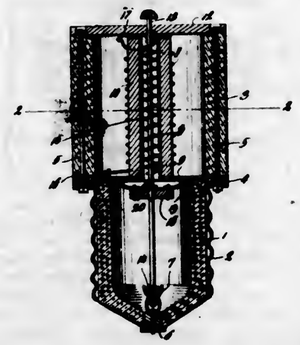
1,424,920. WASHER-PLACING MACHINE FOR RUBBER-HEEL MOLDS. JULIUS H. KINTZELE, ABRAHAM MANHEIMER, and FREDERICK M. ETTER, St. Louis, Mo. Filed Aug. 31, 1921. Serial No. 497,299. 34 Claims. (Cl. 18—1.)



1. A machine of the character described, comprising a carriage, a magazine supported by the carriage, a passage supported by the carriage for conducting washers from the magazine to position for engagement by pins to which the washers are to be applied, means for operating the carriage to cause the washers to be engaged by the pins in one row, mechanism for moving the carriage to position to cause washers to be engaged by the pins in another row, and means for delivering washers from the magazine into said passage.

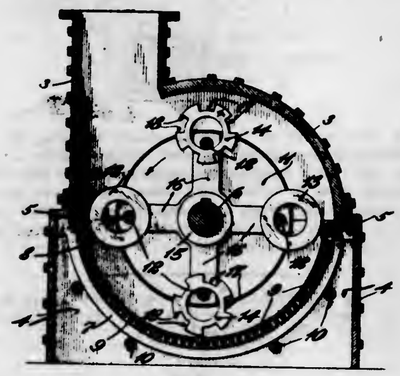
1,424,921. AUTOMATIC CIRCUIT BREAKER. HERBERT B. KISSINGER, Lock Haven, Pa. Filed Nov. 27, 1920. Serial No. 426,861. 2 Claims. (Cl. 200—94.)

1. An automatic circuit breaker including a base, a pair of contact elements on the base, a spring actuated plunger adapted to engage the contact elements to close a circuit, a solenoid surrounding the plunger, the winding of said solenoid being in circuit with the plunger through one of the contact elements, a coil spring surrounding the plunger for normally holding the same out of contact with the other contact element, a contact knob formed on the inner end of the plunger and having an annular groove therein, a contact spring situated on the last mentioned contact element, said spring being substantially U-shaped and having its arms curved so that their mid portions will be closer to each other



than their other portions whereby the mid portions may fit in the groove of the contact knob for normally holding the same in engagement with the contact spring, an armature for the solenoid, a spring resisting actuation of the armature by the solenoid, and means for moving the plunger upon movement of the armature by the solenoid.

1,424,922. PULVERIZING MACHINE. PAUL S. KNITTEL, St. Louis, Mo., assignor to American Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 9, 1918. Serial No. 253,324. 8 Claims. (Cl. 83—11.)

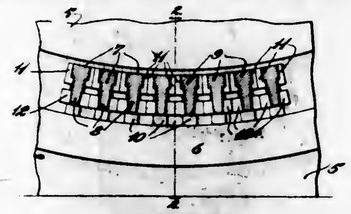


1. A hammer and crushing member for pulverizing machines of the high-speed percussion and crushing type comprising an annular body of sufficient weight to serve as a crushing roller and having a relatively large central opening, the periphery of said body being offset at intervals to form extending crushing surfaces and hammer faces at the ends of said surfaces.

1,424,923. PULVERIZER. PAUL S. KNITTEL, St. Louis, Mo., assignor to American Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 2, 1919. Serial No. 269,328. 5 Claims. (Cl. 83—11.)

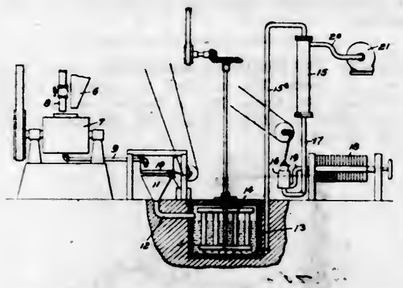
1. A pulverizer having an arcuate grate comprising separate grate bars, each grate bar consisting of a vertical

stem portion having a head portion at the top thereof, said grate bar having spacing lugs on its opposite sides provided with flat end faces, some of the lugs on one side of the bar being disposed in pairs at equal distances from a line midway of the length of the bar, and some of the lugs on the other side also being disposed in pairs at equal



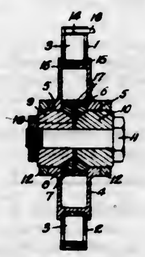
distances from said midway point and the lugs on one side being offset longitudinally of the bar with respect to the lugs on the opposite side of said bar, whereby when said bar is placed along side of a similar bar with the lugs of said bars registering, one width of spacing is obtained and, when said bar is turned end for end the lugs of said bars are out of register and a different width of spacing is obtained.

1,424,924. METHOD OF PRODUCING CLAY BODIES. GROVER W. LAPP, Le Roy, N. Y. Filed Aug. 27, 1919. Serial No. 320,163. 23 Claims. (Cl. 25—156.)



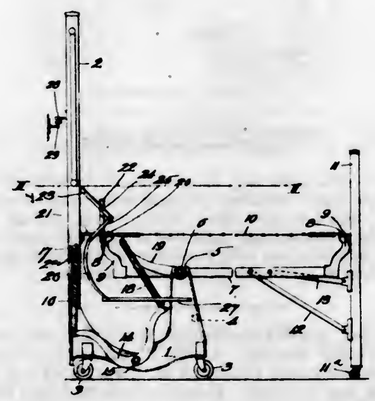
1. The method of preparing elastic material for use in the production of ceramic ware, which consists in forming slip, filter-pressing the slip, disintegrating the filter-pressed cakes in a receptacle, exhausting the receptacle of air and other fluid, and compressing the filter cakes into a compact mass while retaining the reduced pressure within the receptacle.

1,424,925. CROSSHEAD. JOSEPH PIERRE LAVOIE, Montreal, Quebec, Canada. Filed Apr. 21, 1921. Serial No. 463,173. 3 Claims. (Cl. 74—84.)



1. In a cross head in combination, a pair of guides, each having a longitudinal channel therein, one guide having a plurality of holes formed in the bottom thereof; a cross head slidably mounted on said guides and formed with a hole, a connecting rod having a conical hole adjacent one end; and frusto-conical members engaged in said conical hole and spaced from each other to form an intermediate recess, said connecting rod having a hole therein communicating with said recess.

1,424,926. FOLDING BED. THOMAS A. LOGAN, JOSEPH F. BROWN, and CHARLES E. DAVIS, Kansas City, Mo. Filed Dec. 2, 1920. Serial No. 427,735. 5 Claims. (Cl. 5—18.)



1. In a folding bed, a rectangular frame comprising a transverse headframe and a pair of side bars projecting forwardly from the headframe adjacent the lower corners thereof and terminating at their front ends in upwardly projecting arms, a rectangular frame for carrying a mattress, pivoted at an intermediate point of its sides, to said arms and of substantially the same width as the headframe, a pair of curved arms rigidly secured to the rectangular frame at its pivotal point, a pair of relatively U-shaped rocker bars pivoted to said side bars, a pair of retractile springs connecting the rear ends of said rocker bars to the headframe, and a second pair of retractile springs connecting the front ends of said rocker bars to said pair of curved arms.

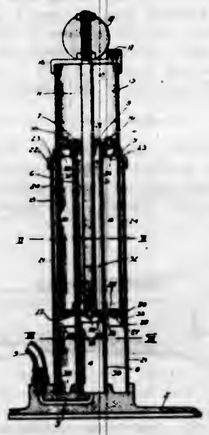
1,424,927. FOOD PRODUCT AND PROCESS OF PREPARING SAME. SIGMUND LUFT, Maywood, Ill. Filed Aug. 2, 1920. Serial No. 400,768. 4 Claims. (Cl. 99—10.)

1. The process of treating cereal grains to produce a ready-to-eat food which consists in tempering the hulled kernels, forming the same into substantially unbroken scales, and roasting the scales to crisp dryness while being agitated to preserve the individuality of the grains.

1,424,928. PUMP. CHARLES S. MCCLELLAND, Pittsburgh, Pa. Filed May 14, 1921. Serial No. 466,818. 7 Claims. (Cl. 230—27.)

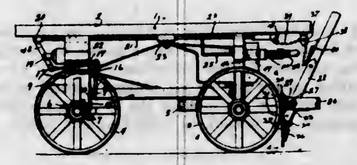
1. A triple cylinder air pump comprising a base, an innermost high pressure cylinder secured in the base and provided with an air inlet and an outlet delivery port, an outermost cylinder also mounted in the base provided with an air inlet port, a reciprocable cylinder intervening between said cylinders provided with an air inlet port, and a co-acting central plunger within the innermost cylinder.

7. The combination with a reciprocable member, of a packing cup thereon having an outer annular flange and



an inner reversed flange, a holding ring provided with laterally extending spring tongues engaging the outer annular flange, and means for holding said parts in position.

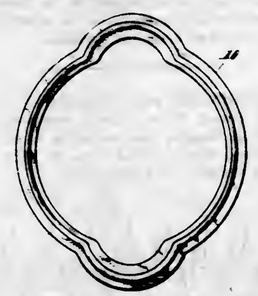
1,424,929. TONGUE-OPERATED LOCK FOR TRUCK WHEELS. LEE R. MCKINNEY, Linton, Ind. Filed Nov. 13, 1920. Serial No. 423,881. 2 Claims. (Cl. 188—106.)



1. In a device as specified, a truck having forward and rear wheels, a lock mechanism for the hubs of the rear wheels, a tongue pivotally mounted on the forward hounds of the forward wheels, and operatively connected with the lock mechanism, whereby upon moving the tongue from a substantial perpendicular position to a horizontal position and back again the lock mechanism actuates to unlock and lock the rear wheels, and means operatively connected with the lock mechanism for actuating the mechanism independently of the tongue.

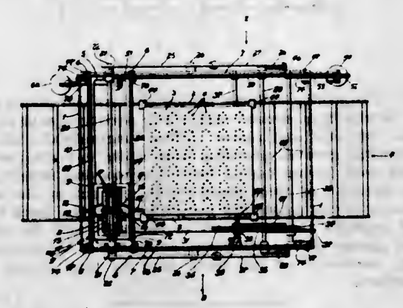
1,424,930. GASKET FOR HANDHOLE PLATES FOR WATER-TUBE BOILERS. PATRICK H. MAHONEY, Chicago, Ill. Filed May 3, 1919. Serial No. 294,531. 3 Claims. (Cl. 288—1.)

1. A lead gasket for a hand-hole plate, said gasket being substantially circular in form and outwardly bulged at diametrically opposite points, said gasket having a



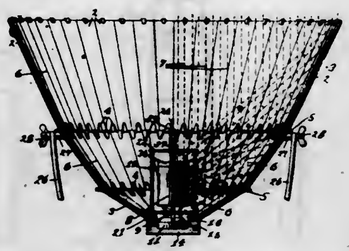
circumferentially extending ridge located on both sides, substantially as described.

1,424,931. WASHER-PLACING MACHINE FOR RUBBER-HEEL MOLD. ABRAHAM MANHEIMER, FREDERICK M. ETTER, and JULIUS H. KINTZELE, St. Louis, Mo. Filed Dec. 16, 1921. Serial No. 522,734. 40 Claims. (Cl. 18—1.)



1. A machine of the character described, comprising a magazine for containing washers, a finger for guiding the washers to position for engagement by the pins on which the washers are to be placed, and a support for the finger, permitting oscillation of the finger to deliver washers to pins in zigzag rows.

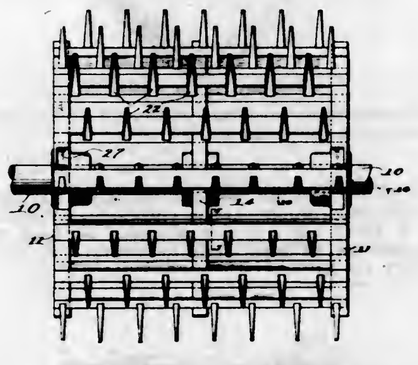
1,424,932. SOLAR HEATING DEVICE. MARCEL ELOI MOREAU, San Francisco, Calif. Filed Aug. 28, 1920. Serial No. 406,736. 3 Claims. (Cl. 126—270.)



1. A solar heating device comprising a housing; a plurality of plane reflecting surfaces symmetrically mounted

in converging relation about an axis and arranged in a plurality of annular series of different inclinations to focus rays from the sun upon a focal area; and tabs formed upon the housing and arranged to be turned inwardly to engage said reflecting surfaces for retaining the same in operative position upon the housing.

1,424,933. CYLINDER FOR THRASHING MACHINES. ROBERT H. OWEN, Butte, Mont., assignor of one-third to Edward F. Maginn and one-sixth to M. H. Gleason, both of Butte, Mont. Filed Nov. 2, 1921. Serial No. 512,252. 3 Claims. (Cl. 130—27.)



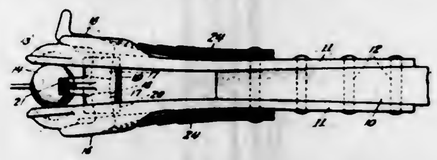
1. A thrashing cylinder having circular end plates and an intermediate circular support or partition, said partition and said end plates having longitudinally alined peripheral grooves provided with under cut side walls, tooth bars having flaring inner portions and slidable in the direction of their lengths into and out of the said grooves, means detachably associated with the tooth bars and engaging the end plates to normally hold the tooth bars against sliding movement, and series of teeth detachably connected to the tooth bars in their length as described.

1,424,934. SIDEHILL ORCHARD LADDER. WILLIAM PATERSON and MAY H. PATERSON, Oakland, Calif. Filed Jan. 20, 1921. Serial No. 438,717. 3 Claims. (Cl. 228—64.)



1. In a side hill orchard ladder of the type described the combination of an automatically adjustable base pivotally attached by means of a bolt fixed to the lower step of the ladder, said bolt projecting through a vertically arranged slot centrally located in the upper portion of said base, permitting the base to slide up and down and to oscillate freely upon said bolt, a curved rack fixed to the main frame of the ladder, a movable clamp-jaw pivotally connected to the upper portion of said base, a bolt fixed to the upper portion of said base and passing through said movable jaw, the shank of said last mentioned bolt being adapted to mesh in the cavities in said curved rack, said vertically arranged slot permitting the shank of said last mentioned bolt to escape from the cavities in said rack when the ladder is raised.

1,424,935. PITMAN CONNECTION. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Feb. 26, 1919. Serial No. 279,439. 19 Claims. (Cl. 287—89.)



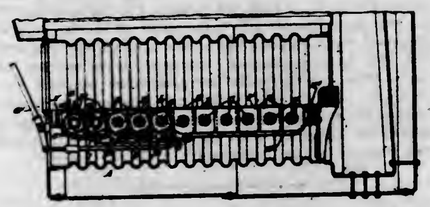
17. In a pitman connection, a pitman having resilient straps, a lever movable through substantially 180° relative to said straps, and strap engaging members movable relative to and controlled by said lever.

1,424,936. LATCHING MECHANISM. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Sept. 18, 1919. Serial No. 324,475. 7 Claims. (Cl. 292—124.)



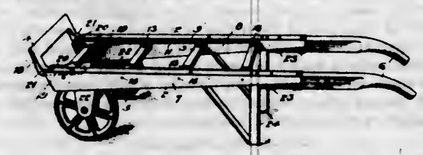
1. A latching mechanism comprising in combination a pivoted latching member, resilient means for forcing said latching member in one direction about its pivot and controlling means having an oblique pivotal connection with said member for locking the member in open position against the tension of said resilient means.

1,424,937. GRATE. OLAF W. PETERSEN, Buffalo, N. Y., assignor to Petersen Stoker Company, Buffalo, N. Y. Filed Aug. 1, 1919. Serial No. 314,599. 5 Claims. (Cl. 126—181.)



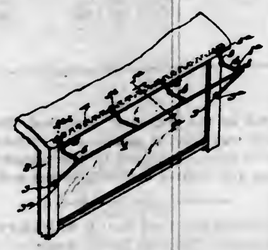
1. A grate including a plurality of rotatably mounted grate bars, each of said grate bars having a central supporting rod, and a plurality of plates secured to said supporting rods and spaced apart, the plates of one grate bar being adapted to enter into the spaces between the plates of an adjacent grate bar, said plates having a plurality of substantially flat edges, and intermittently operating mechanism for turning said grate bars for advancing the fuel, said mechanism after each operation leaving the grate bars in positions in which the uppermost flat edges of the plates lie substantially in the same plane to form a substantially flat grate surface.

1,424,938. HAND TRUCK. EDWIN L. PETERSON, Pittsburgh, Pa. Filed Dec. 6, 1919. Serial No. 342,989. 5 Claims. (Cl. 280—56.)



1. A wheeled truck having a body portion comprising a metal frame formed of longitudinal channel side bars having progressively increasing load supporting surfaces formed thereon, lugs provided on said side bars and a plurality of cross bars extending into said channel bars and secured to said lugs and side bars.

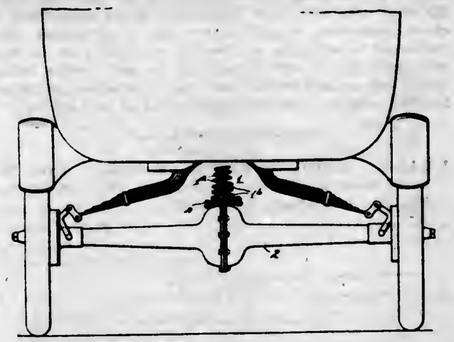
1,424,939. GLARE GUARD FOR WINDSHIELDS FOR AUTOMOBILES, ETC. WINFORD D. PICKARD, Norman, Okla. Filed Apr. 25, 1921. Serial No. 464,177. 1 Claim. (Cl. 296—95.)



A wind-shield for automobiles, comprising a hood-equipped, foldable or collapsible and extensible frame, whose lateral or side-portions are each formed of a plurality of pivoted-together link-members, the upper ends of the uppermost link-members having pivotal connection with the automobile, at its top-forward edge, intermediate link-members being proximately U-shaped, the resultant channels formed thereby receiving and providing for pivoting therein of other of the link-members, whose inner ends are pivotally connected to the lower ends of the uppermost link-members, said intermediate links being mutually adjustable with respect to each other for shortening and lengthening the shield appliance.

1,424,940. REAR-AXLE ATTACHMENT FOR AUTOMOBILES. WINFORD D. PICKARD, Norman, Okla. Filed Sept. 29, 1921. Serial No. 504,008. 3 Claims. (Cl. 267—28.)

1. A device of the type described, including a spring of general tapering coiled type, whose coils are formed with looped arcuate portions, in combination with the rear-axle housing of an automobile, having upstanding studs received by the flared lower end or base of the spring, nut-equipped bolts inserted transversely through said studs, and proximately U-shaped couplings adapted to be applied to the lower terminal of the spring, and nut-equipped bolts inserted transversely through said couplings and adapted to clamp the arms of said couplings



upon said lower spring terminals, the lowermost looped arcuate portion of the spring conforming to, and adapted to seat centrally upon the axle-housing.

1,424,941. GAUGING AND MEASURING INSTRUMENT. FRIEDRICH A. G. PIRWITS, Rochester, N. Y. Filed Dec. 30, 1919. Serial No. 348,341. 10 Claims. (Cl. 33—189.)

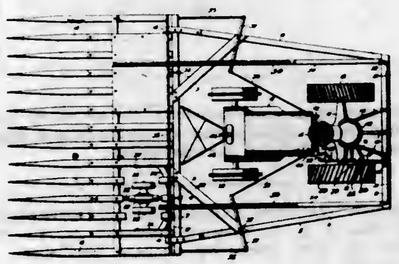
1. In a testing and marking apparatus, the combination with a support, and a work table adjustable on the support, of a microscope, movably mounted on the support, above the work table, a tool also movably mounted on the support, and means for locking either the tool or the microscope in the same fixed position relative to the support.

1,424,942. AUTOMOBILE APPLIANCE. THOMAS RAMAGE, The Pas, Manitoba, Canada. Filed May 7, 1921. Serial No. 467,555. 1 Claim. (Cl. 280—94.)

The combination with the front axle of an automobile, a steering spindle supported thereby, a steering arm ex-

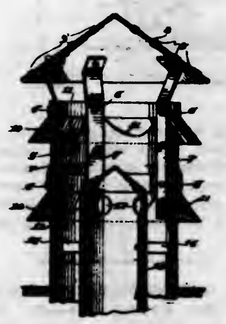
tending through said spindle having a forwardly projecting end, a nut on said projecting end and a cotter pin extending through said projecting end for locking said nut, of a tensioning device connecting said steering spindle with said axle, said tensioning device comprising a clevis connected to said cotter pin, a detachable clip connected to said axle, a forwardly projecting ear formed with said clip, a spring, one end of said spring being connected to said clevis, and an adjustable connection between said ear and the opposite end of said spring.

1,424,943. MOTOR-DRIVEN BUCK RAKE. EARL W. REED, Sunnyside, Wash. Filed Jan. 5, 1921. Serial No. 435,130. 11 Claims. (Cl. 56—27.)



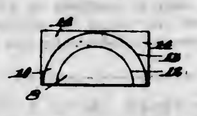
1. In combination, a supporting frame attachable to and transportable by a tractor, a tiltable rake structure carried by the frame, and means engageable with a spoke of one of the drive wheels of the tractor for effecting automatic adjustment of the rake structure.

1,424,944. VENTILATOR. WALTER RENSTROM, Chicago, Ill. Filed May 31, 1917. Serial No. 172,016. 1 Claim. (Cl. 98—4.)



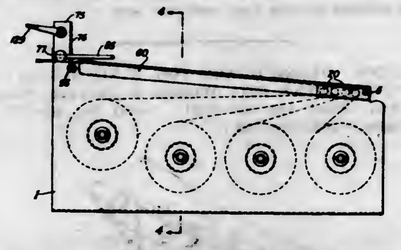
In a ventilator, the combination with a plurality of telescoping sections having their adjoining edge portions overlapping and secured together; longitudinally extending reinforcing bars connected to said sections, the upper portions of said bars being extended beyond the upper edge of the upper section of said ventilator; a hood carried by and secured to said bars in spaced relation with respect to the said upper section; angular downwardly and outwardly inclining aprons carried by and secured to the upper edge of each of said sections, and openings formed at the upper ends of each of said sections, substantially as described.

1,424,945. PROCESS OF FORMING HOODS AND APRONS FOR VENTILATORS. WALTER RENSTROM, Chicago, Ill. Original application filed May 31, 1917, Serial No. 172,016. Divided and this application filed July 14, 1919. Serial No. 310,633. 1 Claim. (Cl. 113—116.)



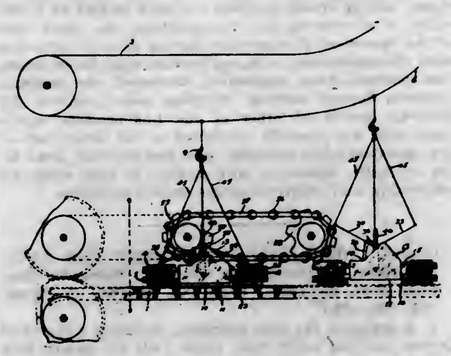
A method of making ventilator parts from separate sections by cutting blanks for half a hood and half an apron, said blanks being cut from the same piece of material by cutting along two concentric lines having diameters coincident with one of the edges of the piece of material in one operation, forming the blank for half the hood into a conical shaped half hood section and flaring a portion of the blank for the half apron forming a half apron section, and joining other similar parts therewith to provide a complete ventilator hood and apron.

1,424,946. AUTOGRAPHIC REGISTER. HERBERT L. ROBERTS, Toronto, Ontario, Canada, assignor to Business Systems, Limited, Toronto, Canada, a Corporation of Canada. Filed July 27, 1918. Serial No. 247,039. 27 Claims. (Cl. 282—11.)



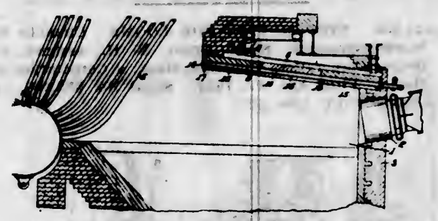
1. A machine of the character described, the combination of suitable web feeding means, and suitable registering means, with means actuated by the registering means for disengaging the feeding means from the web.

1,424,947. CONVEYER AND MOLD SEPARATOR. WILLIAM E. SIMPSON, Detroit, Mich., assignor to Palmer-Bee Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 14, 1921. Serial No. 444,716. 16 Claims. (Cl. 18—2.)



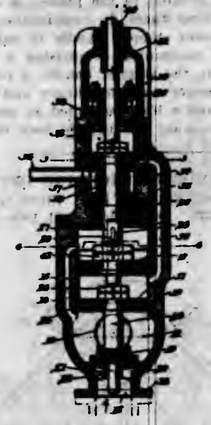
1. The combination with a conveyer for sectional molds, of means for moving one of the sections of the mold away from another, and automatic means for initially separating the sections.

1,424,948. ARCH FOR THE FIRE BOXES OF BOILERS. WILLIAM J. STOOP, Wheeling, W. Va. Filed Feb. 17, 1921. Serial No. 445,684. 3 Claims. (Cl. 122—6.)



1. An arch for the fire boxes of boilers, comprising an arch facing composed of a plurality of parallel courses of longitudinally alined blocks of a suitable refractory material, each course having the blocks thereof provided with parallel longitudinally extending bores, a water pipe of substantially U-shape extending throughout said courses and having the opposite legs thereof received in said bores, said pipes having their outer ends coupled together in series to provide for circulation of water successively through the various courses, and means supporting said courses.

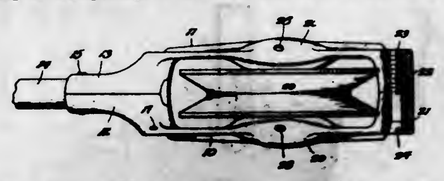
1,424,949. AUTOMATIC STEAM STOP VALVE. WILLIAM B. STORK, Andover, Mass. Filed Oct. 17, 1919. Serial No. 331,432. 11 Claims. (Cl. 137—139.)



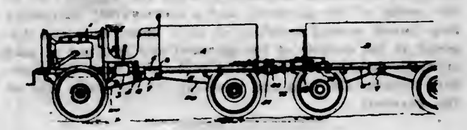
1. An automatic stop valve including in combination, a valve body formed with a chamber having an inlet passage and an outlet passage, a valve controlling the inlet passage constructed to close when the pressure in the inlet passage is less than in the chamber, a cylinder, a stem connected with the valve extending into said cylinder, a pair of spaced pistons in said cylinder, the one adjacent the valve being secured to said stem, a slidable spindle secured to the other piston and projecting outside the cylinder, said stem and second piston being connected for limited relative longitudinal movement, the spaces at the opposite ends of said pistons being in communication with fluid at the same pressure as in the outlet passage, and a valve controlling the supply of fluid at the same pressure as in the inlet, to the space between said pistons.

1,424,950. TROLLEY HARP. FREDERICK THORNTON, Huntington, W. Va., assignor to Thornton Trolley Wheel Co., Ashland, Ky., a Corporation of Kentucky. Filed Sept. 9, 1920. Serial No. 409,093. 8 Claims. (Cl. 64—24.)

1. A trolley harp including side members having lubricant chambers provided with openings in the side walls thereof, substantially semi-spherical bearing cups having studs at their outer ends fitting in the openings in the outer side walls of the chambers, the rims of the cups fitting in the openings in the inner side walls of the chambers, the walls of the cups being provided with openings communicating with the chambers, and a trolley wheel having an axle provided with substantially semi-spherical trunnions fitting in said cups.

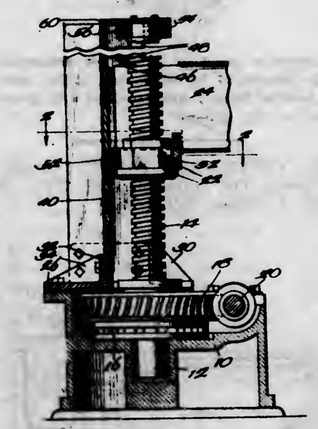


1,424,951. VEHICLE DRIVE TRANSMISSION SYSTEM. DON G. TIFFANY, Newark, Mich., assignor to Walter W. Jones, Flint, Mich. Filed June 15, 1920. Serial No. 389,157. 7 Claims. (Cl. 180—14.)



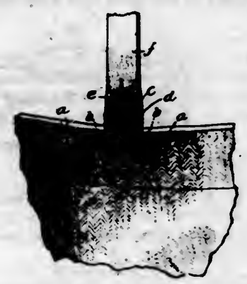
1. The combination with a main motive power vehicle and a series of trailers, of a driving system therefor including means connecting the ground engaging elements of all the vehicles in driving relation with the main motive power vehicle, and couplings included in the said driving system between the vehicles locally movable in a direction longitudinally of the vehicles.

1,424,952. HOUSING FOR VERTICAL SCREW JACKS. JOHN S. TOWNSEND, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed Dec. 22, 1920. Serial No. 432,572. 4 Claims. (Cl. 254—103.)



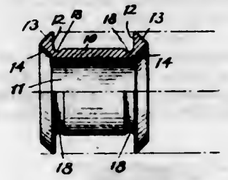
1. In mechanism of the class described, a main base member, a vertical screw having its lower end journalled therein, means for operating the screw carried in the base, a cover plate casting for the base, partially enclosing the screw, lugs rising from the cover member, a single vertical I-beam interfitting with said lugs and enclosing three sides of the screw, means securing the I-beams to said lugs and means supporting the upper end of the screw in the upper end of the I-beam.

1,424,953. GARMENT FASTENER. ALEXANDRA N. TURNQUIST, Glenellyn, Ill. Filed May 23, 1921. Serial No. 471,565. 1 Claim. (Cl. 24—225.)



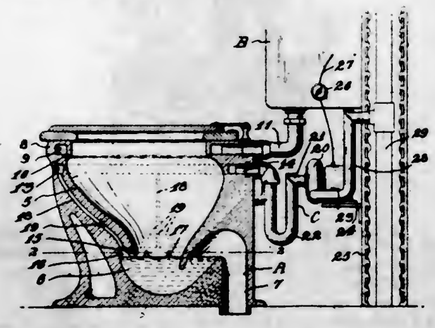
A garment fastener formed of a strip of metal and comprising hooks adapted to pass through a garment, upwardly extending members between the hooks to lie at the inside of the garment, and a downwardly extending loop joined to said members at their upper ends and disposed at the outside of the garment and in front of said members, said hooks extending forwardly from the members towards the loop and upwardly at the outer side of the garment.

1,424,954. SPOOL OR HOLDER FOR COMMUTATORS. CHARLES A. VAN DUSEN, Toledo, Ohio, assignor to The Toledo Standard Commutator Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 20, 1920. Serial No. 411,565. 4 Claims. (Cl. 171—321.)



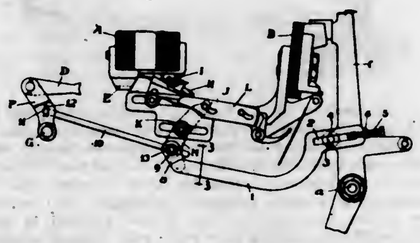
2. A one-piece spool or holder for commutators comprising a cylindrical barrel having at its ends integral segment holding flanges, and provided with grooves at the inner face of the flanges.

1,424,955. VENTILATING TOILET. GEORGE H. VAN ECK, Tampa, Fla. Filed Mar. 18, 1921. Serial No. 453,271. 4 Claims. (Cl. 4—21.)



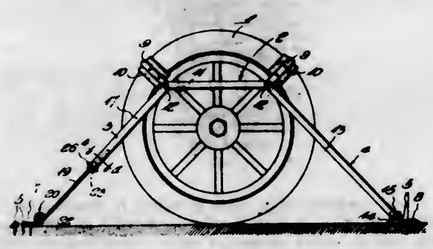
1. A toilet bowl having an internal suction chamber therein arranged above the water trap, a second chamber arranged adjacent to the water trap and communicating with the interior of the bowl and passageways in said bowl connecting the chambers.

1,424,956. STOP MOTION FOR LOOMS. CHARLES E. VANHONAKERROUCK, Salem Depot, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 17, 1922. Serial No. 553,390. 4 Claims. (Cl. 139—52.)



4. A stop motion for a loom including a swinging carrier which is brought into action when a warp thread breaks or becomes unduly slack, a swinging stop finger which is brought into action when a weft thread breaks or runs out, and a shipper handle which swings back and forth in a plane parallel to the planes of swing of said carrier and said stop finger, in combination with mechanism connecting said shipper handle to said stop finger and carrier, said mechanism comprising a rod attached at its front end to the shipper handle, a rock shaft connecting said connector and stop finger and rocking with respect to both, and a link connected at one end to said carrier and at its other end to said rock shaft.

1,424,957. AUTOMOBILE SECURING DEVICE. HARRY W. VAN TILBURG, Elkhart, Ind. Filed June 17, 1920. Serial No. 389,636. 10 Claims. (Cl. 188—32.)

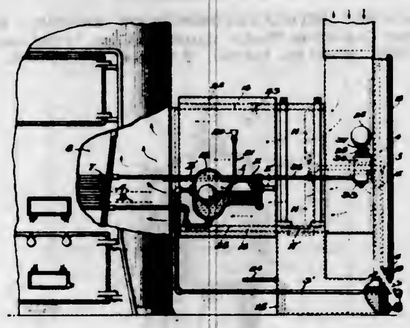


6. A structure of the character set forth, comprising a pair of members spaced apart and connected together and straddling the wheel to be secured, and members operatively connected with said first-named members and inclining downwardly in opposite directions from the center of the wheel, the outer ends of said second-named members being attachable to the support upon which the wheel rests, for placing the structure under tension.

1,424,958. AUTOMATIC FAN SYSTEM FOR HOT-AIR FURNACES. NATHANIEL B. WALSH, Kalamazoo, Mich., assignor to Furnace Fan Corporation, Niles, Mich. Filed Apr. 11, 1922. Serial No. 551,441. 5 Claims. (Cl. 237—1.)

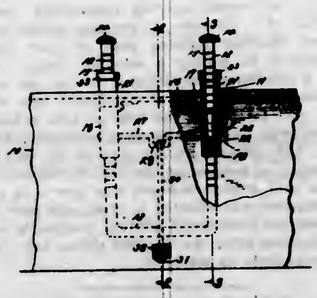
5. An automatic air circulator for a hot air furnace, comprising a steam generating chamber positioned within the fire-pot of the furnace, a steam engine operatively

connected to said chamber, means actuated by the engine for controlling the volume of air passing through the air ducts of the furnace, and means controlled by the intensity of the fire within the fire-pot to start the engine



and maintain it at an intermittent action at low fire intensities and in continuous operation at normal and high intensities.

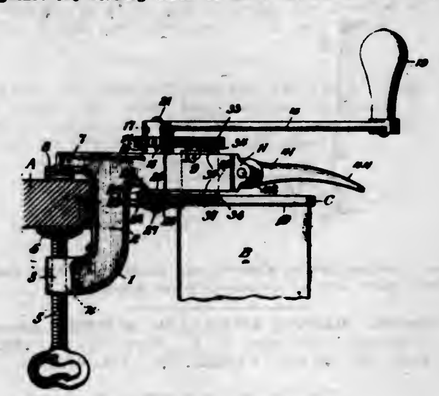
1,424,959. ADJUSTABLE FOOT REST FOR SHOE-SHINING STANDS. JAMES EMORY WALKER, Hecla, S. Dak. Filed Nov. 16, 1921. Serial No. 515,036. 2 Claims. (Cl. 15—265.)



2. A shoe shining stand having a platform, a vertically movable U-shaped frame below the platform and having its arms extended through guide openings in the platform, said arms presenting foot-rests at their upper exposed ends, supporting means having engagement with the said arms below the platform for supporting the frame in raised position, and means for releasing the said supporting means to permit the descent of the said frame, said releasing means being operable from a point exteriorly of the said stand.

1,424,960. CAN OPENER. ROBERT H. WALLER and GRANBERY JACKSON, Nashville, Tenn., assignors to Quicksafe Manufacturing Company, Nashville, Tenn., a Corporation of Tennessee. Filed July 19, 1921. Serial No. 485,794. 2 Claims. (Cl. 30—3.)

1. In a can opener, the combination with a support having an outstanding arm, a vertical shaft mounted in said arm, a feed roller and cutter mounted at the lower end of the shaft, a gear at the upper end of the shaft, an operating handle also at the upper end of the shaft and operating in a horizontal plane above the arm, a movable bearing block mounted in said arm, a second shaft mounted in the bearing block, a second feed roller mounted on the lower end of said second shaft, a gear mounted at the upper end of the second shaft and engaging with the gear of the first shaft, a spring acting against the bearing block to move the same outwardly,



and a cam lever mounted in the outer end of the arm and bearing against the bearing block in opposition to the tension of said spring.

1,424,961. FAN. BUSHROD C. WASHINGTON and STUART K. JOICE, Washington, D. C. Filed Sept. 23, 1919. Serial No. 325,000. 2 Claims. (Cl. 230—33.)

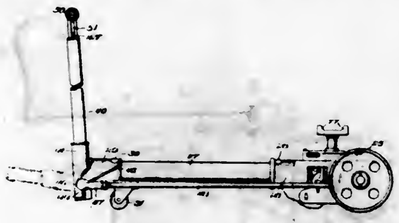


1. The combination with a stationary casing having a fan actuating motor therein, said motor being actuated by a reciprocating rack moved inwardly manually and outwardly under the impulse of a spring, said rack being provided with a finger receiving socket having its side adjacent the casing inclined inwardly towards the casing thereby providing a finger engaging surface which will prevent slippage of the finger and a finger engaging socket carried by the casing opposite the rack socket and having its inner side at substantially a right angle to the casing for preventing slipping of the finger, said socket forming means for preventing the fingers from coming into the path of the fan during a fan operation.

1,424,962. TRUCK JACK. IRA A. WEAVER and ROLLA G. STOCKER, Springfield, Ill., assignors to The Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Filed July 9, 1919. Serial No. 309,593. 29 Claims. (Cl. 254—2.)

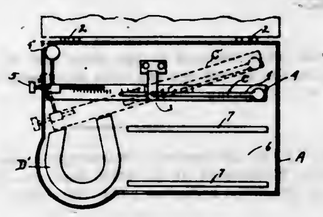
1. In an appliance of the character described, the combination of a truck having a caster-wheel and rotatable steering means near one end of the truck, a lifting-jack on said truck, a handle movably mounted on said truck near the other end thereof, means connecting said

handle and jack whereby the former may operate the latter and means permanently connecting said handle



and steering means whereby the handle may turn and steer such means, substantially as described.

1,424,963. MAGNET FIRE-ALARM SYSTEM. ANTON WELLERT, Binghamton, N. Y. Filed Feb. 14, 1922. Serial No. 536,494. 4 Claims. (Cl. 116—67.)



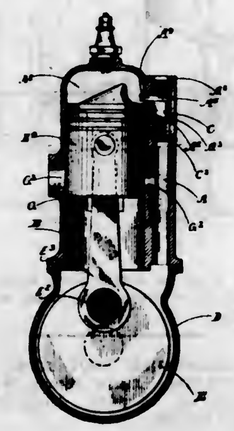
3. In combination, an alarm mechanism, a driving mechanism therefor an atmospherically controlled and magnetically controlled trip lever means for adjusting the operation of said lever, an intermediate trip lever for holding the driving mechanism in inoperative position, operative means for operating the trip lever to release the driving mechanism when the mechanism becomes heated to a predetermined degree, comprising a pivoted thermometer body, a magnet, and operative connection between thermometer body and the trip lever substantially as described.

1,424,964. PUMP. ARTHUR W. WELLINGTON and ARTHUR F. RYAN, San Jose, Calif. Filed July 5, 1921. Serial No. 482,525. 9 Claims. (Cl. 103—111.)



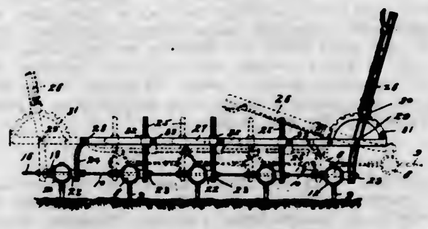
1. In combination, a pump head, a discharge casing suspended therebelow, a pump bowl carried by said casing, an impeller arranged in said bowl, a shaft operatively mounted with relation to said head and impeller, and a roller operatively mounted on said shaft between said head and bowl.

1,424,965. INTERNAL-COMBUSTION ENGINE. ROBERT GLADSTONE WELLS, Marple, England. Filed Jan. 4, 1921. Serial No. 434,960. 2 Claims. (Cl. 123—73.)



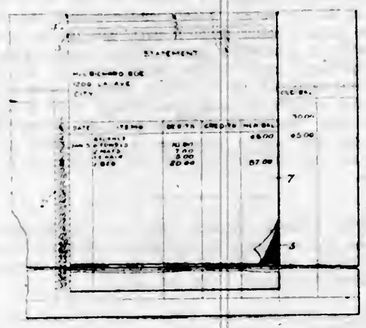
1. In a two stroke internal combustion engine, the combination of a cylinder, a working piston therein, a comoustion chamber forming part of said cylinder, a pump adapted to deliver a working charge into said cylinder, a conduit communicating at one end with said combustion chamber, and at the other end with said pump, a port formed in the side of said cylinder communicating with said conduit at a point intermediate of its ends, and adapted to be covered by said working piston during a portion of the latter's stroke, a valve located in said conduit between said port and said combustion chamber and adapted to close said port by movement under the pressure of mixture trapped in said combustion chamber after the working piston has closed said port, substantially as set forth.

1,424,966. HARROW. WILLIAM T. WEATMAN, Minneapolis, Minn. Filed Oct. 15, 1920. Serial No. 417,164. 4 Claims. (Cl. 55—102.)



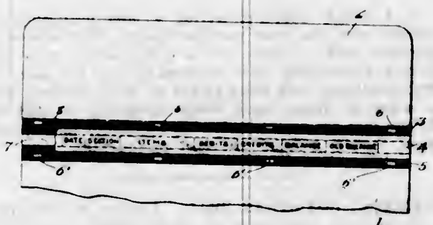
1. A harrow comprising forwardly and rearwardly spaced toothed bars, links flexibly connecting said bars for independent rising and falling movements, a rigid tie bar extended over said toothed bars, crank arms rigidly connected to the front and rear toothed bars and pivotally connected to said tie bar, other crank arms rigidly connected to the intermediate toothed bars and slidably and pivotally connected to said tie bar, a lever pivotally connected to said tie bar and to one of said toothed bars, and means on said tie bar for securing said lever against movement.

1,424,967. COLLATED WORK SHEETS. JOHN A. WHERRY, New Orleans, La. Filed July 21, 1921. Serial No. 486,363. 6 Claims. (Cl. 282—23.)



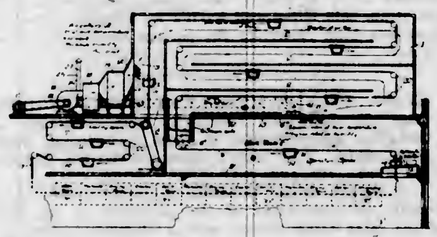
1. The combination of a main work sheet having a notch in one transverse edge thereof, and a supplementary work sheet adapted to be folded over or creased along any one of several lines and engaged at the crease or fold with the edge of the main sheet within said notch.

1,424,968. RECORD SHEET OR CARD. JOHN A. WHERRY, New Orleans, La. Filed July 29, 1921. Serial No. 488,433. 10 Claims. (Cl. 283—66.)



1. A record sheet, comprising a main section, a separate top section, and means for detachably connecting said sections with their edges in the same plane, said top section having heading indicia applied thereto.

1,424,969. DRYING METHOD AND MEANS. EZEKIEL FIELD WHITE, Detroit, Mich. Filed Jan. 24, 1921. Serial No. 439,637. 13 Claims. (Cl. 34—12.)



10. A drying apparatus of the character described comprising an elongated passageway which is open at both ends, means to induct attempered air adjacent to one of said ends and to educt said air adjacent to the other of said ends, and means adjacent to the point of induction for said air to adjust and determine the direction of air flow in said passageway and at the ends thereof.

1,424,970. ARTICLE HOLDER FOR POCKETS. PETER S. ZONTOS, St. Louis, Mo., assignor of one-half to Demos Xelaras, St. Louis, Mo. Filed Jan. 3, 1922. Serial No. 526,836. 6 Claims. (Cl. 24—11.)



1. An article holding device for pockets consisting of a horizontally disposed member adapted to be arranged on the inside of a pocket in proximity to the upper end of the pocket and formed from a narrow strip of metal that is provided at its ends with rearwardly projecting arms, a part on said member that is adapted to embrace the upper edge portion of the pocket and retain said member in operative position below the upper edge of the pocket and a retaining element arranged parallel to said member and connected to the arms at the ends of said member.

1,424,971. MEANS FOR SECURING ANTISKID CHAINS TO VEHICLE WHEELS. CARL ACKERBERG, Oshkosh, Wis., assignor to Challoner Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 24, 1920. Serial No. 368,449. 9 Claims. (Cl. 152—2.)



3. Means for securing an anti-skid chain to a vehicle wheel, comprising a plate having a hook at each side thereof, the bights of said hooks being formed integral with said plate and the shanks of said hook extending in opposite directions in spaced substantially parallel overlapping relation.

1,424,9..-. FINISHING ARTICLES IN BASKETWARE. GEORGE B. AMBLER and HAROLD F. SHAW, Leominster, Mass., assignors to F. A. Whitney Carriage Company, Leominster, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1920. Serial No. 360,626. 7 Claims. (Cl. 147—48.)

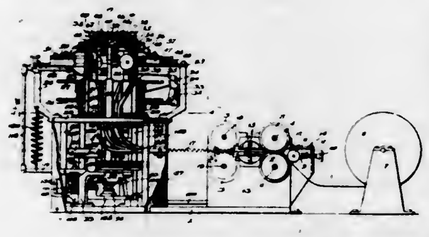
1. A method of finishing the margins of wicker articles comprising securing marginally of the article a strip of wicker fabric to overlie the face thereof, reversely bend-

ing said strip and rolling the reversely bent strip into hollow form over the margin of the article the rolled



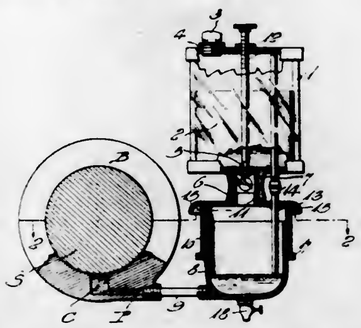
strip being spaced from the margin of the article for at least a major portion of its length and securing the opposite edge.

1,424,973. MACHINE FOR MANUFACTURING WIRE CAGES. WILLIAM E. BAKER and WILLIAM F. SONNEMAN, Waco, Tex., assignors to Wonder Trap Co., Inc., Waco, Tex. Filed Sept. 4, 1920. Serial No. 408,218. Renewed June 24, 1922. Serial No. 570,717. 48 Claims. (Cl. 140—71.)



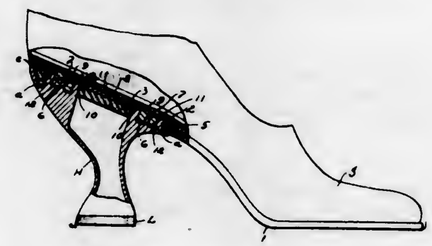
1. In a cage forming machine, means for supplying a sheet of metal, means for dividing the sheet longitudinally into strips to form stays for the cage, and means for passing wire strands transversely of the stays and securing the same together.

1,424,974. LUBRICATING DEVICE. RALPH LINN BARNETT, Langeloth, Pa. Filed Sept. 16, 1920. Serial No. 410,635. 3 Claims. (Cl. 184—103.)



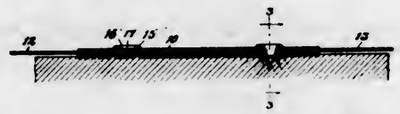
3. A lubricating device of the class described comprising a transparent reservoir having a valve seat at the center of its bottom, and a depending internally screw-threaded neck directly beneath said valve seat, said neck being formed with a sight-opening, a screw threaded needle valve arranged in said reservoir and co-operative with said seat, a receiving cup disposed beneath said reservoir, being provided at its bottom with an outlet and being open at its top and provided with external screw threads, a closure for the open end of said cup having screw threads engaged with the threads on the latter, being formed with air intake openings and with a depending guard flange co-operative with said openings, said closure being open at its center and being equipped with a screw threaded neck engaged with the threads of said first named neck, a vacuum release pipe carried by said closure and extendnig into said reservoir, and a stop-nut on the threads of said receiving cup for controlling the adjustment of said closure.

1,424,975. SHOE HEEL. LANGDON S. BARRON, St. Louis, Mo., assignor of one-half to Benjamin Richter, St. Louis, Mo. Filed Apr. 30, 1921. Serial No. 465,948. 3 Claims. (Cl. 36—40.)



1. A hollow shoe-heel having a boss projecting upwardly from the inner surface thereof, said boss being provided with a recess and a wedge, and a boss projecting downwardly from the heel seat of the shoe, the last mentioned boss being kerfed so as to divide it into a series of fingers, said wedge operating to bind the fingers into the recess on forcing the bosses into engagement thereby securing the heel to the shoe.

1,424,976. BOX-STRAP SEAL. SAMUEL BARUCH, New York, N. Y. Filed Feb. 25, 1921. Serial No. 447,892. 3 Claims. (Cl. 292—325.)

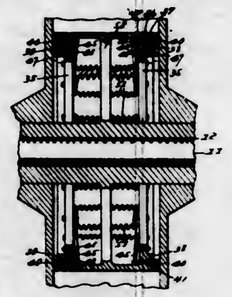


1. A seal for strap ends including a tubular member adapted to receive the strap ends, and having its outer and inner walls, each provided with a portion adapted to be deformed into locking engagement with the strap, said outer wall having an annular outwardly extending bead encircling the portion thereof to be deformed.

1,424,977. PACKING MEANS FOR ROTARY ENGINES. EARL E. BIDWELL, Frederick, Okla., assignor of forty-five one-hundredths to Price Quesenberry, Frederick, Okla. Filed May 1, 1920. Serial No. 378,315. 3 Claims. (Cl. 123—8.)

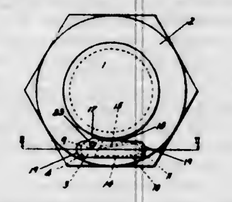
1. A rotary engine including a casing and a rotor therein, the side edges of the periphery of the body of the rotor being formed with a circumferentially extending groove, an annulus having a tongue extending into said groove and projecting laterally beyond the rotor body and into contact with the adjacent end of the rotor casing, the rotor body being hollow and there being

a series of passages extending from the rotor body and parallel to the axis thereof into the groove therein, a series of pins disposed in said passages and bearing



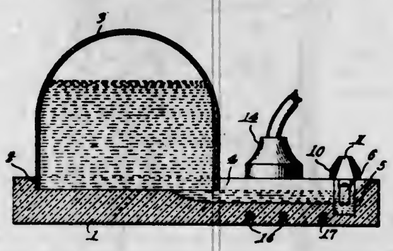
against the tongue of the annulus, and a series of springs disposed within the hollow rotor body and operatively engaged with the pins to urge them laterally outward.

1,424,978. NUT LOCK. ANDREW BIRCHMAN, GUSTAVE O. MATTER, and JOSEPH H. MCCOY, Portland, Oreg., assignors to Universal Nut Lock Company, Portland, Oreg., a Corporation of Oregon. Filed Mar. 17, 1920. Serial No. 366,568. Renewed Jan. 10, 1922. Serial No. 528,138. 5 Claims. (Cl. 151—26.)



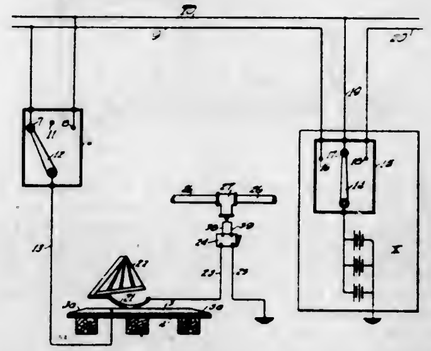
1. The combination with a nut, provided with an oblong recess having its longitudinal axis substantially parallel to a tangent to the bore of the nut, and open means of operative communication with said bore, of a locking member pivotally mounted in one end of said recess and in operative communication, through said means, with said bore, and a locking-member-actuating spring operatively mounted in the other end of said recess.

1,424,979. ELECTRIC HUMIDOR. JOHN ERNEST BLOUNT, Louisville, Ky. Filed Mar. 18, 1922. Serial No. 543,489. 5 Claims. (Cl. 219—38.)



1. In an electric humidor, the combination of a recessed base, a water containing bowl mounted in the recessed portion of said base, the base having a well spaced from the bowl, the base also having a channel communicating from the interior of the bowl to the well, and electrodes extending into the well and spaced apart to form a suitable gap.

1,424,980. AUTOMATIC TRAIN-STOPPING DEVICE. RUDOLPH BOARDMAN BOYLE, Kansas City, Mo. Filed Oct. 9, 1920. Serial No. 415,799. 2 Claims. (Cl. 246—13.)



1. In a train stopping device, a track, a plurality of ramps disposed along the track, a pair of line wires, a switch box for each ramp, means in said switch box for connecting each ramp with either of said line wires, a dispatcher station, a switch box at said dispatcher station, a source of current, and means in the switch box at the dispatcher station for connecting said source of current with either of said line wires.

1,424,981. WRIST BLOTTER. EDWARD R. BRATLAND, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 454,692. 4 Claims. (Cl. 120—25.)

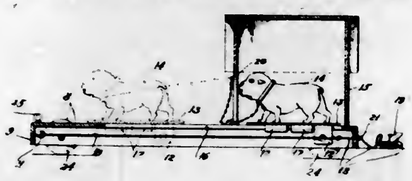


4. A wrist blotter comprising a blotting member including a wrist strip and a forwardly extending palm engaging portion, a flexible guard and attaching member for engaging the outer surface of the wrist strip of the blotter member, leaving the palm engaging portion exposed, the terminals of the wrist strip overlapping one another when in their folded position, and a snap fastener for securing the terminals of the wrist strip together, the male and female portions of the snap fastener constituting means for securing the flexible guard and attaching member to the wrist of the blotter member.

1,424,982. TOY. RICHARD B. BUDIN, Brooklyn, N. Y. Filed Feb. 23, 1921. Serial No. 447,269. 1 Claim. (Cl. 46—45.)

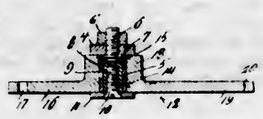
A toy as characterized comprising a table having an elongated narrow slot therein; a thin platform partially covering said slot and supported by said table, said platform having rigidly attached thereto, a perforated pendant bracket for extension through and below said slot; an open hook permanently disposed adjacent the forward end of said table in line with the perforation in said bracket; a perforated member attached to said table

at the opposite end thereof, the perforation in said member being aligned with the perforation in said bracket, said perforation having a contracted lateral extension; a non-elastic cord operatively engaging said bracket and being extended through said perforation therein and through the perforation in the member at the rear of said table, said cord equalling approximately the length of said table, and being provided with a knot adjacent



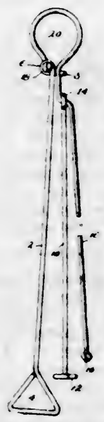
said bracket, said knot being adapted for engagement by the contracted extension of said perforation for restraining the platform and bracket connected therewith in a position adjacent the rear end of said platform and an elastic member operatively uniting said hook and said bracket, said member being extended through the perforation in said bracket and adapted for extension over, for engagement by said hook.

1,424,983. SHOCK ABSORBER. OLIVER E. BURGOON, Toledo, Ohio. Filed July 7, 1920. Serial No. 394,409. 2 Claims. (Cl. 208—97.)



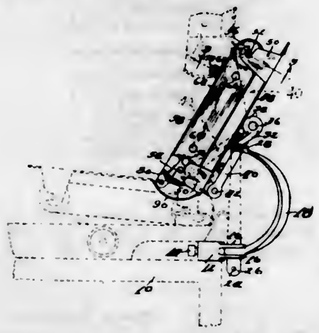
1. The combination with a bicycle fork and a wheel, of a bolt secured to the fork and having a threaded opening in its outer end, shoulders between the end of the bolt, a wheel mounting on the bolt and engaging said shoulders, a washer for the bolt, a screw threaded into the opposite end of the bolt for retaining the washer, and spring means for resisting vibrations of the wheel.

1,424,984. OBSTETRICAL INSTRUMENT. ATVILL BYRD, Kansas City, Mo. Filed May 4, 1920. Serial No. 378,933. 3 Claims. (Cl. 128—352.)



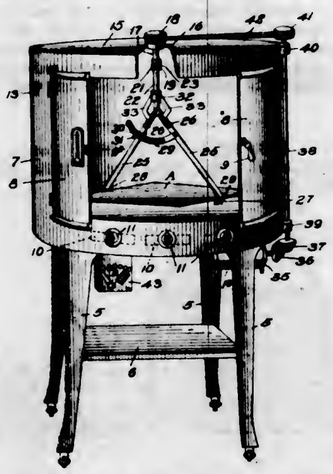
1. In a set of instruments of the character described, a flexible rod having an eye and a handle, an element projecting from said main rod adjacent the eye, a cable connected to said eye, and a supplemental flexible rod connected to said cable and adapted to form the same into a running loop by drawing it through the element projecting from the main rod.

1,424,985. TYPEWRITER ATTACHMENT. CLARENCE H. CALDWELL, Oak Park, Ill. Filed June 1, 1920. Serial No. 385,475. 8 Claims. (Cl. 120—33.)



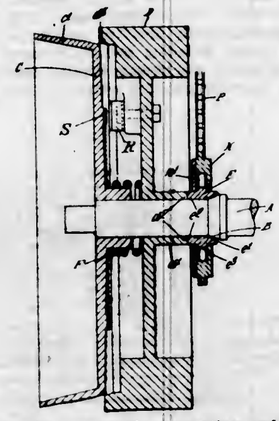
8. A device of the kind described comprising two adjustable clamps, a semi-circular bracket mounted in each clamp on a pivot pin, a gear on the end of each pivot pin, lugs depending from the clamps, a single revolvable shaft mounted in the lugs, gears on the ends of the shaft adapted to coact with the gears on the pivot pins, an arm pivotally mounted on the upper end of each semi-circular bracket, cylindrical lugs on the end of each arm provided with stops, a shaft fixed in the lugs, arms pivoted on the shaft and held in position by the stops, a plate pivotally mounted on the arms, said plate being provided with two pairs of upstanding lugs, a shaft revolvably supported by each pair of lugs, and a movable copy holder supported by said shafts.

1,424,986. PLATE TWIRLER FOR ENGRAVERS. JAMES A. CAREY, Pittsburgh, Pa. Filed Dec. 2, 1920. Serial No. 427,908. 12 Claims. (Cl. 91—60.)



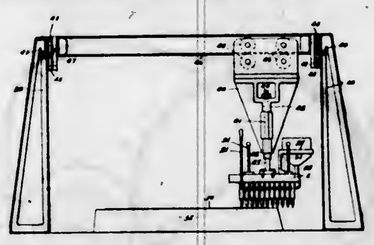
5. A twirling device comprising a rod member, legs pivoted to one end of said rod member and adjustable toward and away from each other, and means for supporting and rotating said rod member.

1,424,987. CLUTCH. ALBERT HAWKINS CLARK, Molesey, England. Filed Nov. 5, 1920. Serial No. 422,111. 9 Claims. (Cl. 123—185.)



In a clutch for operatively connecting and disconnecting a rotary body with a shaft on which it rotates, the combination of a shaft, a rotary body thereon, two fixed clutch members on the said shaft, the rotary body being axially movable between the said clutch members and adapted to engage with one of them, a rotary sleeve having cam surfaces adapted to engage counter cam surfaces on the rotary body and a coned surface adapted to engage the other fixed clutch member, and means for imparting rotary movement to the said sleeve.

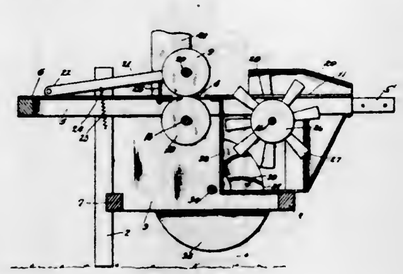
1,424,988. COUNTERSINKING MACHINE. ARTHUR J. COUGHTRY, Bethlehem, Pa. Filed Apr. 9, 1920. Serial No. 372,407. 5 Claims. (Cl. 77—22.)



1. In a countersinking machine, the combination of a frame, tool carriages mounted on the frame and movable toward and from each other to space the same apart, tool spindles mounted in the carriages, the spindles being mounted to adjust themselves radially whereby each spindle centers itself independently of the other spindles, means common to all the carriages to simultaneously move them along the frame to vary the spacing of the tools, and driving means for the spindles, substantially as and for the purpose specified.

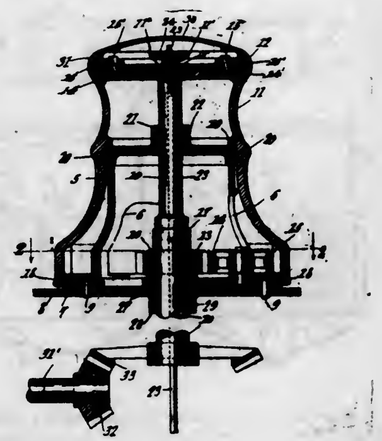
1,424,989. CANE STRIPPER. VICTOR L. COVEY, Tell City, Ind., and TONA COVEY, Louisville, Ky. Filed Mar. 9, 1921. Serial No. 451,033. 1 Claim. (Cl. 130—31.)

In an apparatus for the purpose set forth, the combination of a table top having a transverse series of longitudinal slots therein and a transverse slot in advance of the longitudinal slots, a transverse series of rigid pins rising from the table top adjacent and in advance of the transverse slot and alined with the respective longitudinal slots, co-operating upper and lower feeding rollers mounted respectively above and below the table top in the vertical plane of the transverse slot, a rotatable stripper mounted below the table top, blades carried by said stripper playing through the longitudinal slots in the table top, a hood



secured upon the table top and housing the blades, the front and rear ends of said hood being open and the rear end contracted, and means for operating the stripper and the feed rollers.

1,424,990. CAPSTAN. ALBERT A. COYLE and WILLIAM S. MITCHELL, St. Louis, Mo. Filed Mar. 29, 1920. Serial No. 369,639. 3 Claims. (Cl. 254—150.)

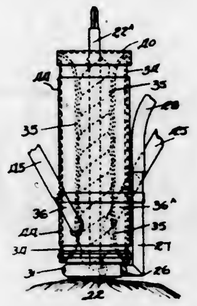


1. In a capstan, a base having a bed plate, roller bearings supported in the periphery of the bed plate and in the base, adjacent to the upper end thereof, a revolving drum having an internal flange resting on the upper end of the base, portions of the drum contacting with the roller bearings, an operating shaft extending through the drum, a pinion movable with the operating shaft, a pinion in mesh with the first mentioned pinion, a gear formed within the lower portion of the drum the teeth thereof contacting with the teeth of the second mentioned pinion to rotate the drum when the shaft is rotated, and means for disconnecting the shaft and first mentioned pinion.

1,424,991. WAVING OR CURLING HAIR. ALEXANDER CRAIG, Sydney, New South Wales, Australia. Filed Mar. 24, 1921. Serial No. 455,357. 5 Claims. (Cl. 132—36.)

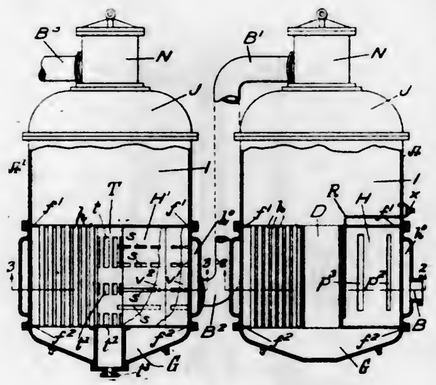
1. In hair waving or curling, apparatus for combing and tensioning the hair in wisps or bunches consisting of

upper and lower plates, a toothed or comb surface on the inner side of one plate, opposed rubber pads on said plates,



a casing around the end thereof, means for pressing them together and a rod or bobbin upon which the hair is coiled under tension.

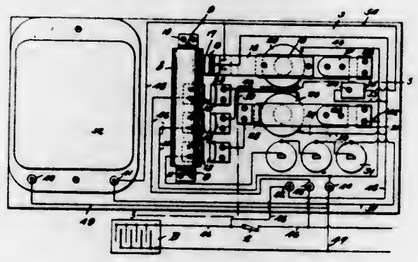
1,424,992. EVAPORATOR. WILLIAM H. P. CREIGHTON, New Orleans, La. Filed Dec. 30, 1920. Serial No. 434,083. 10 Claims. (Cl. 127—18.)



1. A vacuum pan or effect provided with a steam belt having transverse tube sheets, tubes for the passage of liquid, connecting said tube sheets and opening therethrough; a series of radial partition plates separating the heating space into a series of wedge shaped chambers, each containing a group of said tubes, means for supplying steam to the outer portions of said chambers, and means for carrying off the heating fluid from the contracted inner portions of said chambers.

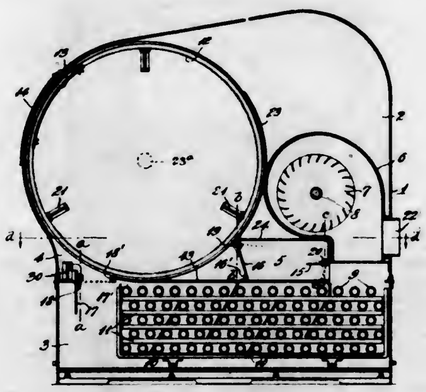
1,424,993. AUTO THEFT ALARM. JOHN L. CROSSER, Tulsa, Okla. Filed May 8, 1920. Serial No. 379,929. 1 Claim. (Cl. 177—314.)

In a device of the class described an ignition circuit; a main source of energy and an ignition switch for said circuit; a normally open alarm circuit including said main source of energy, an electromagnetically operated switch comprising a coil, and a signal; a circuit including said main source of energy, said ignition switch, a manually operated switch and the coil of said electromagnetically operated switch, so that when said manually operated switch is closed and the ignition switch is closed, said circuit will be energized to operate the electromagnetically operated switch and close the alarm circuit; an auxiliary alarm circuit including said signal, an auxiliary source of energy, a manually operated switch and a second electromagnetically operated switch comprising a coil for holding said electromagnetically operated switch open when energized; a circuit including said main source of energy, said second-named electromagnetically operated switch coil and a manually operated switch, so that when said



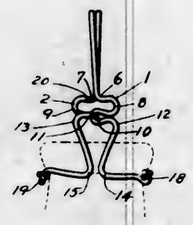
last named manually operated switch is closed, the second-named electromagnetically operated switch will hold the auxiliary alarm circuit open and permit it to close when said main source of energy is cut off; and lock-controlled means for operating all of said manually operated switches.

1,424,994. DRYING TUMBLER. EDMUND I. CUTTER, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Apr. 23, 1920. Serial No. 376,136. 14 Claims. (Cl. 34—5.)



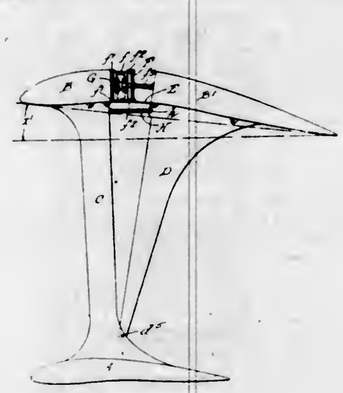
3. In a drying machine, the combination of a blower and air chamber, a heating chamber, a drying chamber, said several chambers having communicating passageways therebetween, means for forcing air through said machine, dampers for passageways between the air and drying chambers, the air and heating chambers, the heating and drying chambers respectively, and a single operating means for closing the first named damper and opening the other two dampers, or vice versa, whereby the heating chamber can be included in or excluded from the air circuit through the machine.

1,424,995. MILK-BOTTLE CARRIER. WILLARD W. DE LONG, Seattle, Wash. Filed Dec. 6, 1921. Serial No. 520,267. 5 Claims. (Cl. 215—100.)



2. A device of the type described comprising two sections of material each bent to form straight bars at the top, then bent downward, then bent to form S shaped sections about half-way down the vertical portions which when put together form hinges and then bent in the form of semi-circles in a horizontal plane at the lower ends of the vertical sections.

1,424,996. WING CONSTRUCTION FOR AIRPLANES. DAVID EARLE DUNLAP, Buffalo, N. Y., assignor of three-fourths to Abraham J. Elias, Buffalo, N. Y. Filed Apr. 23, 1921. Serial No. 463,836. 20 Claims. (Cl. 244—12.)



8. In an airplane, a wing divided along a substantially upright plane extending lengthwise of the wing into front and rear parts, which are adjustable toward and from each other to increase the speed range of the airplane, struts connected to said rear part and pivoted below said rear part, and which resist the strains to which said rear part is subjected, and means connecting said parts and operable to move said parts toward and from each other.

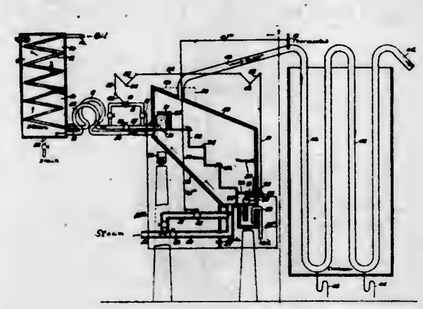
1,424,997. DRILLING MACHINE. ARTHUR L. EDWARDS, Maupin, Oreg. Filed July 25, 1921. Serial No. 487,257. 15 Claims. (Cl. 74—48.)

1. A pitman rod comprising a body, locking arms carried thereby and having fingers, a plunger in said body, a sleeve slidable on said plunger, a coiled spring confined between said sleeve and one end of said plunger, a second coiled spring confined between said sleeve and one end of said body, said sleeve being provided with means



engaging the fingers of said locking arms whereby to hold the sleeve in a set position, and an attaching means carried by said body.

1,424,998. PROCESS OF AND APPARATUS FOR DISTILLING. JAMES T. FENTON, Salt Lake City, Utah. Filed Mar. 29, 1921. Serial No. 456,581. 13 Claims. (Cl. 196—25.)



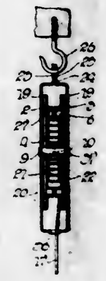
1. An apparatus adapted for use as an oil topping still, having a stepped bottom, an oil inlet, an overflow weir adjacent said inlet, and a vertically movable gate over said weir, each end of said gate being vertically adjustable.

6. An oil still comprising a distilling chamber, an oil inlet pipe at one end of said chamber and an oil well at the other end thereof, two valves in said inlet pipe, means governed by the depth of the oil in said well for controlling one of said valves, and means governed by the temperature of the oil in said well for controlling the other valve.

1,424,999. CORD SUPPORT FOR ELECTRIC LIGHTS. ERNEST R. FROST, Chicago, Ill. Filed Apr. 8, 1920. Serial No. 372,249. 1 Claim. (Cl. 248—10.)

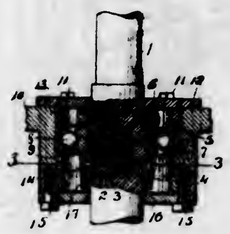
In combination, a take-up mechanism comprising, a plurality of disks having the material pressed inwardly to form spacing ribs in each face and an annular chan-

nel in one, said disks being arranged with the ribs abutting each other whereby a spring retaining cavity is formed, a winding spring located in said cavity, centrifugal controlled dogs on one of said disks, a hanger bracket pivotally carrying said disks comprising, opposite



parallel bar members integrally joined at the lower end, a lug struck out from one of the bar members to form a stop for said dogs in riding in said annular channel, the upper end of said brackets meeting face to face wherein an aperture is formed to provide insertion of a supporting hook.

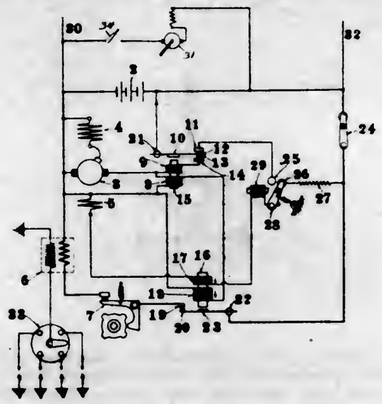
1,425,000. BEARING LUBRICATOR. RALPH I. FROST, Augusta, Kans., assignor to The Geo. W. Brown & Son State Bank, trustee, Augusta, Kans. Filed Dec. 6, 1920. Serial No. 428,703. 4 Claims. (Cl. 64—56.)



4. In a bearing lubricator, a vertical rotary threaded shaft having an annular peripheral flange, a bearing member mounted on said shaft, an annular member encircling said shaft and spaced apart therefrom and having an inner peripheral flange bearing against said first named flange and provided with a flaring annular wall having one or more transverse holes, a nut on said threaded shaft arranged to hold the bearing member against said annular member, and a lubricant container into which said flaring wall extends, substantially as set forth.

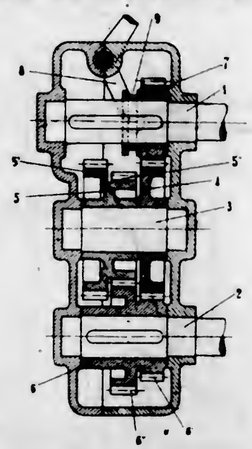
1,425,001. IGNITION SYSTEM. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 7, 1918. Serial No. 221,065. 7 Claims. (Cl. 290—37.)

4. In a battery charging and ignition system, a charging generator provided with means for producing an auxiliary exciting magnetization, a battery, a switch for connecting the generator and battery, and means oper-



able only when the battery switch is in open position to connect the battery to the auxiliary magnetizing means.

1,425,002. CHANGE-SPEED GEAR. ADALBERTO GABELLI, Milan, Italy. Filed June 11, 1920. Serial No. 388,341. 3 Claims. (Cl. 74—58.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

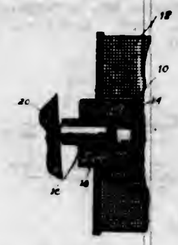


1. A change-speed gear, comprising a driving shaft; a driven shaft; a pinion slidably fixed to the driving shaft; shifting means for said pinion; an intermediate shaft; a plurality of loose pinions on the intermediate shaft; at least one loose pinion having two toothed rims, one of which is adapted to be engaged by the slidable pinion on the driving shaft; and a plurality of toothed elements mounted on the driven shaft to rotate therewith, each of said toothed elements meshing with one of the loose pinions on the intermediate shaft.

1,425,003. SWITCH. ADOLPH A. GAZDA, Chicago, Ill., assignor to Kaestner & Hecht Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1920. Serial No. 411,625. 13 Claims. (Cl. 175—372.)

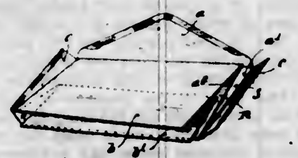
1. The combination of a movable switch member of magnetic material, an electro-magnet including a station-

ary pole piece arranged to move said switch member, said pole piece having a socket in its face, and a damping



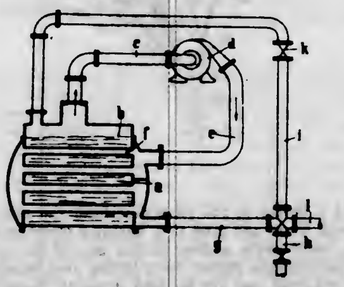
plunger loosely slidable in said socket, the movement of said plunger in either direction being effected by the switch member.

1,425,004. COMBINED SENDING AND RETURN ENVELOPE. ARTHUR W. GROGIN, Minneapolis, Minn. Filed Dec. 31, 1919. Serial No. 348,646. 6 Claims. (Cl. 229—73.)



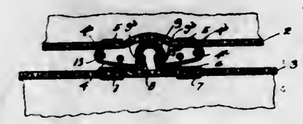
6. A combined sending and return envelope comprising a sealed pocket and a parallel pocket opening at one longitudinal edge, said envelope having a flap folded into said latter pocket of substantially the same area as one side of the envelope and adapted to be drawn out and folded over the sending address side of the envelope to seal said latter pocket so that the same can be used for a return envelope and also to form a side adapted to receive the return address.

1,425,005. METHOD OF EVAPORATING LIQUORS AND APPARATUS THEREFOR. WILHELM GENSECKE, Bad Homburg, Germany. Filed Apr. 27, 1920. Serial No. 377,142. 7 Claims. (Cl. 127—9.)



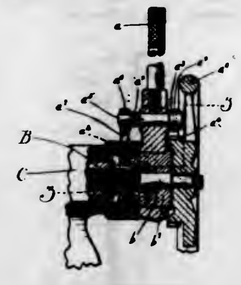
3. In a plant for evaporating liquids comprising a container for the liquid to be evaporated and a chamber for the heating medium in heat exchanging proximity to said liquid, a line for conveying the vapor away from said container, means for withdrawing mixed vapor and condensate from said chamber, a trap for separating the vapor from the condensate, a passage of adjustable section connecting said trap and said vapor line for joining the uncondensed vapor with the vapor generated in said container, and means for compressing these joined vapors and conveying them into said heating chamber.

1,425,006. FASTENING DEVICE. HENRY G. GOLDSTEIN, Cleveland, Ohio. Filed July 11, 1921. Serial No. 483,772. 2 Claims. (Cl. 24—208.)



1. In a fastening device, a disc shaped body terminating in a peripheral beading having an edge at the rear of said body terminating in material penetrating fastening prongs, the base of said beading forming a supporting shoulder on the face side of the material and extending approximately parallel therewith and said prongs being bent inwardly beneath the material in cooperative relation to said supporting shoulder.

1,425,007. RATCHET FEED MECHANISM. GUSTAF A. GRANLUND, Cincinnati, Ohio, assignor to The Greaves-Klusman Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 21, 1920. Serial No. 390,877. 3 Claims. (Cl. 74—54.)

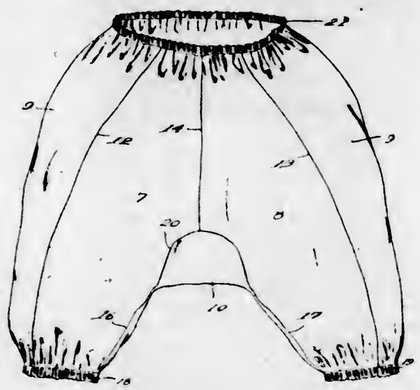


1. In a lathe feed mechanism the combination with a spindle housing, of a spindle screw extending into the housing, a pull bar rotatably mounted on the spindle screw, a ratchet wheel fixedly mounted upon the spindle screw, a head pawl on the pull bar, a tail pawl on the pull bar and attached to the head pawl, means to normally hold the head pawl in engagement with the ratchet wheel, and means on the housing adapted to be engaged by the tail pawl and to thereby disengage the head pawl from the ratchet wheel when the pull bar is moved beyond a normal limit.

1,425,008. WEARING APPAREL. LOUIS N. GROSS, Cleveland Heights, Ohio. Filed June 20, 1922. Serial No. 569,576. 3 Claims. (Cl. 2—122.)

1. A woman's bloomer garment comprising a bifurcated back member having its side edges cut along parallel lines and having a U-shaped crotch portion cut intermediate converging bifurcated portions, and two front members having a combined width less than the width of the back member and having the outer edges thereof cut on a bias to the outer side edges of the back member and converging inner edges terminating in an arcuate edge cut complementary to the curved edge of the crotch portion of the back member, the outer edges of the back member being joined to the outer edges of the front members along seams formed on a bias in the front of the garment and the inner edges of the front members

being joined to the crotch portion and converging edges of the back member by a continuous seam extending up-



wardly from the bottom of the legs of the garment, the upper portion of the seam being arcuate at the front of the garment above the crotch.

1,425,009. BOTTLE STOPPER. CHARLES F. GUARD, Phoenixville, Pa. Filed Sept. 27, 1919. Serial No. 326,732. 7 Claims. (Cl. 215—58.)



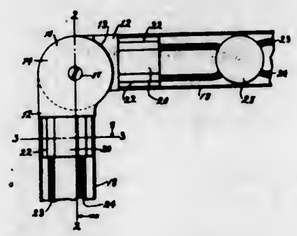
1. The combination with a bottle including a neck, of a stopper therefor comprising a non-absorbent stem, a cork carried by the stem, and means carried by the stem for engagement about the bottle neck for permitting a limited sliding movement of the stem in relation to the bottle neck and arranged to prevent accidental disconnection of the stopper and bottle.

1,425,010. PROCESS AND MACHINE FOR MAKING BRICKS. WILLIAM H. HAWS, Johnstown, Pa., assignor of one-fourth to Henry Y. Haws, Johnstown, Pa., and one-fourth to David Barry, Johnstown, Pa. Filed July 29, 1920. Serial No. 399,742. 27 Claims. (Cl. 25—102.)



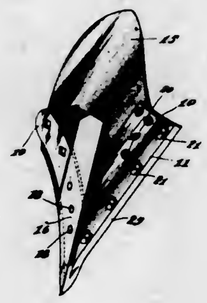
27. The process of molding bricks from brick forming material which consists in supplying a mold with an excess of material, compressing portions of the material near the walls of the mold with greater force than the material removed from said walls while relieving pressure on said last-mentioned portion of material, then finally compressing all the material.

1,425,011. JOINT FOR ELECTRICAL CONDUITS. JAMES C. HERRON, Chicago, Ill., assignor to Reflector & Illuminating Co., Chicago, Ill., a Corporation of Illinois. Filed May 12, 1920. Serial No. 380,761. 5 Claims. (Cl. 247—31.)



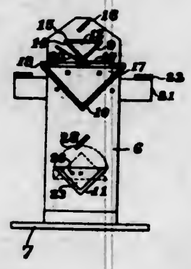
1. A joint for conduits compriaing, in combination, two elements, each element comprising a portion adapted to be connected to a conduit, a joint member projecting from said portion having a part of its perimeter formed on the surface of a cylinder and having opposite flat sides, the axis of which cylinder is laterally offset from the center line of said portion, the thickness of said member being one-half the thickness of said portion and a post projecting axially of said member, the height of said post being equal to the thickness of said member the inner ends of the posts and the inner flat sides of the cylindrical parts abutting so as to cause the conduits to be arranged in the same plane, and a screw embedded in one post and extending into the other post to connect the same.

1,425,012. PLOWSHARE. JONAS HETLAND and MARCUS HETLAND, Valley City, N. Dak. Filed May 6, 1921. Serial No. 467,451. 2 Claims. (Cl. 97—21.)



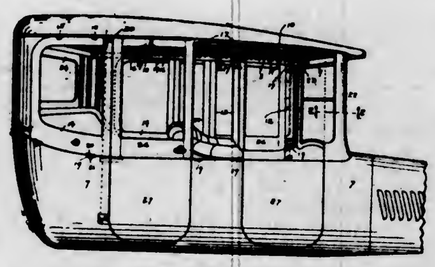
2. In a device of the class described, the combination of a mold board and land side, having a shouldered recess on its under sides, a frog having one of its sides provided with sunken slotted seats having stud engaging ribs which converge and are inclined upwardly towards their rear ends, said side extending below the edge of the mold board, and the other side formed with a forward tapered portion having a reduced shoulder thereon, a removable share having a rearwardly opening pocket at its forward ends to receive the tapered portion of said frog, and provided with horizontal and vertical flanges to abut the land side and tapered portion of said frog, headed studs on said share to engage said sunken slots in said frog and be wedged therein under plowing pressure, but readily releasable therefrom on forward movement of the share relative to said frog and mold board.

1,425,013. POULTRY FEEDER. JOHN C. HOSTLER, Altoona, Pa. Filed Mar. 27, 1922. Serial No. 547,245. 2 Claims. (Cl. 119—61.)



1. A feeder comprising a pair of spaced supporting standards, troughs connecting the standards to each other, said troughs being disposed one above the other, a shield rotatably mounted above the top trough, covers hinged at their confronting inner edges to the intermediate trough, a shield rotatably mounted between the standards, beneath the last mentioned trough, and a movable trough rotatably mounted beneath the last mentioned trough and shield, and means for holding said rotatable trough in its upright or inverted position.

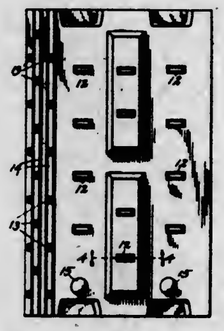
1,425,014. AUTOMOBILE TOP. MATTHEW R. HULL, Connersville, Ind., assignor to Rex Manufacturing Company, Connersville, Ind., a Corporation of Indiana. Filed Mar. 29, 1917. Serial No. 158,455. 1 Claim. (Cl. 296—103.)



In combination with an open vehicle body, a deck provided with narrow longitudinal side members, means at the front and rear ends of the body for supporting the deck a fixed distance above the body, deck reinforcing rails secured to the side members of the deck and extending the length and around the corners of the deck and depending below the lower edges of the deck to form flanges, means for securing said rails to the deck side members, removable windows, panels and door extensions arranged between the lower edges of the deck and the upper edges of the open vehicle body and alined by the depending portions of said deck reinforcing rails, and means for removably securing said windows, panels and deck reinforcing rails together.

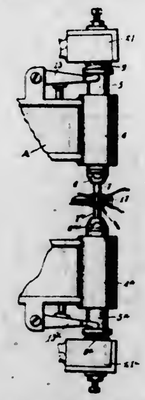
1,425,015. CONCRETE ROOF-TILE PALLET. FORREST C. HYTEN and PAUL J. HAWKINS, Indianapolis, Ind. Filed Dec. 28, 1921. Serial No. 525,422. 3 Claims. (Cl. 25—43.)

1. A pallet on which concrete roofing tiles are troweled in the manufacture of the tiles, having projections in addition to those for positioning the mold members and giving form to the tile at frequent intervals over the entire concrete contacting surface of the pallet to check



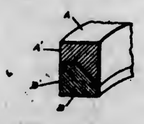
the sliding of the wet concrete on the pallet during the troweling operation.

1,425,016. DUPLEX EYELETING MACHINE. GEORGE W. JACQUES, Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 13, 1920. Serial No. 351,168. 17 Claims. (Cl. 218—152.)



15. In a fastener setting machine, a hollow double-ended combined cutting punch and set, a pair of anvils and sets telescopically arranged, one such anvil and set cooperating with each end of said hollow punch and set to punch two pieces of material and force the punchings within said hollow punch and set, and then to set fasteners in said materials, and a spring-pressed element carried by one of said anvils and arranged to eject the punchings from said hollow punch and set on the retraction of the other of said anvils.

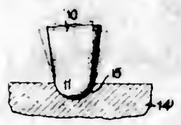
1,425,017. DUPLEX PISTON RING. SIGFRED JOHNSEN, Menominee, Mich., assignor of one-third to James A. Bell, Clintonville, Wis., and one-third to J. H. Vernet, Menominee, Mich. Filed Sept. 2, 1919. Serial No. 321,085. 1 Claim. (Cl. 74—109.)



An expansible piston packing comprising an outer split ring and an inner split ring of greater expansive force

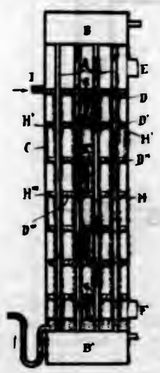
than said outer ring, both of said rings having inner cylindrical surfaces, an outer cylindrical surface on said outer ring, an outer cylindrical surface on said inner ring and of less area than the outer cylindrical surface of said outer ring, annular surfaces on said rings extending inwardly from the adjacent edges of said outer cylindrical surfaces and cooperating conical surfaces extending from said annular surfaces to the inner cylindrical surface of the respective rings.

1,425,018. PHONOGRAPHIC RECORD. EARLE W. JONES, New York, N. Y., and EDWARD R. HARRIS, Arlington, N. J. Filed June 3, 1916. Serial No. 101,550. 13 Claims. (Cl. 214—42.)



1. A sound record having therein a laterally undulatory record groove having the form in cross section of the segment of a true circle.

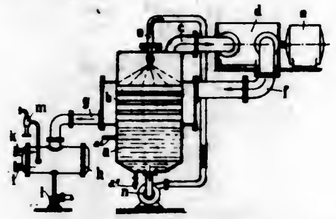
1,425,019. MEANS FOR COOLING A GAS. EUGÈNE JORDAN, Franconville, France, assignor to Societe L'Air Liquide (Societe Anonyme Pour L'Etude et L'Exploitation des Procedes Georges Claude), Paris, France. Filed Apr. 17, 1922. Serial No. 554,176. 2 Claims. (Cl. 62—139.)



1. In a heat interchanger, the combination of a shell having chambers at its opposite ends, a plurality of tubes extending through the shell and communicating with the chambers, one of the chambers having an inlet and the other an outlet for a gas to be cooled, an inlet to and an outlet from the shell for the cooling gas, a plurality of trays disposed one above the other within the shell and having openings to receive the tubes, these openings being of slightly greater diameter than the tubes, and means for introducing liquid to the shell above the trays and for withdrawing the liquid below the trays.

1,425,020. METHOD OF EVAPORATING LIQUORS. EMIL JOSSE, Berlin-Laukwitz, and WILHELM GENSECKE, Bad Homburg, Germany. Filed Apr. 27, 1920. Serial No. 377,141. 3 Claims. (Cl. 127—9.)

1. Apparatus for evaporating liquids, comprising a container for the liquid, a heating chamber in heat transferring relation to said liquid, means for withdrawing vapor from said container and subsequently returning it to said heating chamber at higher pressure, said vapor serving as heating medium for vaporizing the liquid, and means for controlling the pressure in



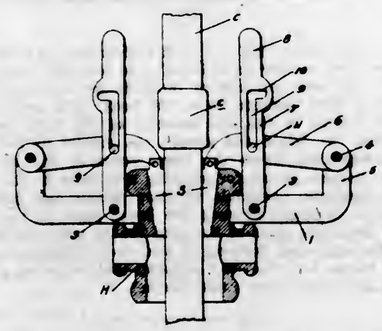
said heating chamber and the vapor output of the evaporator, said means comprising a condenser for receiving the fluid discharge from the heating chamber, and a vacuum pump connected to said condenser.

1,425,021. TRANSMISSION BELT. IRWIN F. KEPLER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Sept. 1, 1921. Serial No. 497,614. 1 Claim. (Cl. 74—65.)



An endless transmission belt of the side-driving or V-type, said belt having a core, a soft-rubber filler adjacent said core, and a fabric cover, all vulcanized together, and being formed with continuous side wings or flank portion separated by a relatively wide and deep, outer peripheral groove in the fabric cover and the rubber filler.

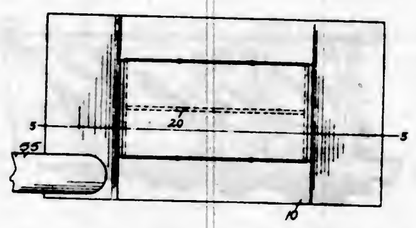
1,425,022. CASING-HEAD ATTACHMENT. FRANK KINZBACH, Humble, Tex. Filed Feb. 16, 1921. Serial No. 445,405. 2 Claims. (Cl. 24—263.)



1. The combination with the head of a well casing having downwardly converging faces, of opposed slips insertible downwardly into the head for gripping a casing therebetween, oppositely disposed arms connected to and extending from the head, levers fulcrumed at their outer ends on the arms and overhanging the head, said levers

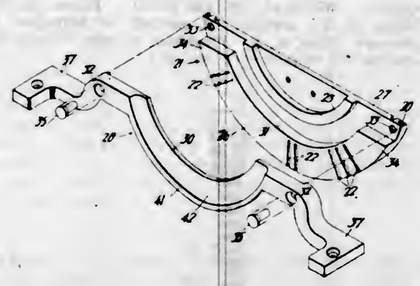
being connected to the upper ends of the slips, tripping levers pivotally connected to and extending upwardly from the arms, and cooperating means upon the tripping levers and the slip engaging levers for supporting the slips in elevated positions partly above the head.

1,425,023. TRAP. ANDREW KUBICKI, Webster, Mass., assignor of one-half to Mike Nalewajk, Webster, Mass. Filed July 8, 1921. Serial No. 483,307. 8 Claims. (Cl. 43—70.)



1. In a trap, the combination with a hollow base, a casing located above it and divided into two compartments separate from each other, said base also having two compartments, one located directly under each of the compartments in the casing and adapted to receive an animal therein from the casing, an outlet directly connected with one end of one of said compartments, and a passage extending around that compartment and connected at one end with the other compartment and at the other end with said outlet.

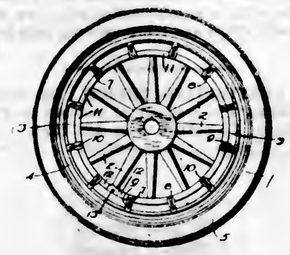
1,425,024. TYPEWRITING MACHINE. ALFRED G. F. KUAOWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 5, 1919. Serial No. 315,372. 14 Claims. (Cl. 197—41.)



1. In a typewriting machine, the combination with radially arranged type-bars to print at a common point against a platen, of a segment to support said type-bars, a curved anvil on said segment against which the type-bars may strike, and a cross-bar arranged at the front of said segment to support the latter, said cross-bar having an arcuate portion to fit under said anvil.

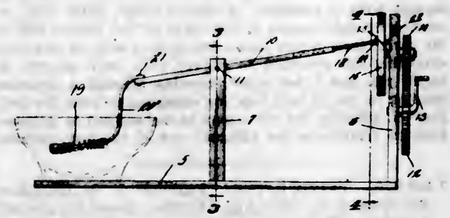
1,425,025. CLAMPING DEVICE FOR DEMOUNTABLE RIMS. CARL AUGUST LA COUR, Washington, Nebr. Filed Aug. 27, 1920. Serial No. 406,411. 1 Claim. (Cl. 301—23.)

In clamping devices for the demountable rims of vehicle wheels, a flat sectional ring, two of the sections of said ring being smaller than any of the remaining ring sections, said two sections being pivotally connected to the adjacent ring sections and to each other, longitudinally slotted links pivotally connected to the sections of said ring, a wedge ring disposed between said links and the



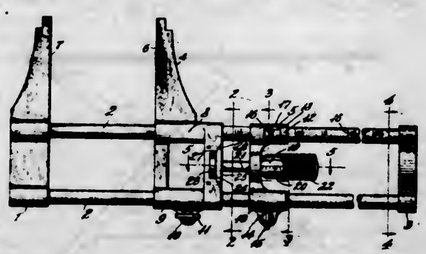
demountable rim, and screw bolts extending through the wheel felly and through the longitudinal slots in said links whereby the same may be forced against said wedge ring and flat sectional ring.

1,425,026. EGG BEATER. RAYMOND S. LOWER, Geneseo, Ill. Filed Nov. 9, 1921. Serial No. 513,969. 1 Claim. (Cl. 74—14.)



In a device of the character described, a base, a supporting bar on the base, gears carried by the supporting bar, an arm having a bore formed in one end thereof and pivotally supported above the base, a disk supported at one end of the base and having an elongated opening formed eccentrically thereof, a bolt extending through the opening, a head formed with a socket carried by the bolt and adapted to be secured within the elongated opening in various positions of adjustment, a rod having a head positioned in the socket, said rod adapted to move in the bore of the first mentioned rod, and gearing for rotating the disk.

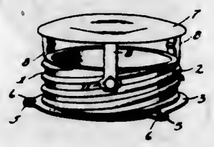
1,425,027. EXTENSIBLE MICROMETER CALIPER. PETER LUSTRIK, Cleveland, Ohio. Filed July 5, 1919. Serial No. 308,893. 5 Claims. (Cl. 33—165.)



1. An extensible micrometer caliper, comprising a rigid frame including two parallel guide members, a bridge permanently connecting said members at one end, a station-

ary jaw permanently connecting said members at the other end, a pair of slides movable on said guide members and permanently retained thereon by said bridge and jaw, one of said slides having a jaw for co-operation with said stationary jaw and lying between said stationary jaw and the other slide, and micrometer adjusting mechanism connecting said slides and lying between said guide members.

1,425,028. VENTILATING DEVICE. DE WITT TAYLOR LYON, Chicago, Ill., assignor of one-half to Frank Mellish, Chicago, Ill. Filed Apr. 18, 1921. Serial No. 462,388. 5 Claims. (Cl. 98—27.)



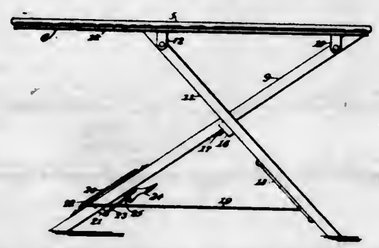
5. A device of the character described comprising a frame cast integrally of metal and having a cylindrical body portion adapted to be secured in the port of a ventilating duct, said body portion being provided with a spirally directed rib exteriorly thereof, a cover for said body portion, said cover being cast integrally of metal and formed with a plurality of spaced apart guide legs extending at right angles to the plane of the remote side of the cover, each of said legs being formed with an inwardly extending rib arranged to engage with said spirally directed rib, and a set screw screwing through a threaded opening in one of said legs for engagement with the body portion, whereby the cover may be maintained in adjusted position relative to the adjacent end of the body portion.

1,425,029. TYPEWRITER. FRANCIS J. MCLOUGHLIN, Brooklyn, N. Y. Filed Aug. 17, 1918. Serial No. 250,367. 1 Claim. (Cl. 197—26.)



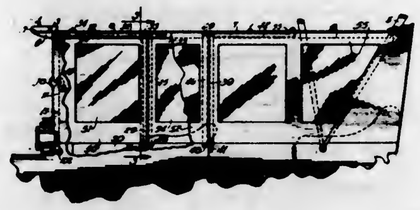
In a typewriter a pivotally mounted type bar, a returning spring therefor and a link connecting said spring with the type bar near its base, said link being adapted to act by direct tension at the commencement of a stroke and, near the end of the stroke, as a lever whose fulcrum is the supporting pivot of the type bar.

1,425,030. FOLDING IRONING BOARD. HENRY R. MEYER, Cedar Rapids, Iowa. Filed Mar. 29, 1921. Serial No. 456,561. 3 Claims. (Cl. 68—10.)



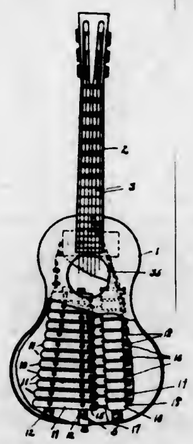
2. An ironing-board having a middle leg hinged to its under side near one end, a pair of legs hinged to said middle leg near the middle, and having a hinged and slidable connection with the under side of the board at the other end, the ends of all the legs being extended to form locking abutments against the board, a tie connecting the single leg with the pair near their lower ends, and means for straining and fastening said tie to lock the legs in rigid supporting position.

1,425,031. WINTER INCLOSURE FOR AUTOMOBILES. NICHOLAS A. MICHNA, Chicago, Ill. Filed Sept. 3, 1920. Serial No. 407,979. 2 Claims. (Cl. 296—45.)



1. In an automobile construction, a horizontal frame member comprising a pair of angle irons, said angle irons having one of their sides disposed in a horizontal plane and their other sides disposed in a vertical plane, the vertically disposed sides being adjacent one another, a second angle iron extending at right angles to said first named angle irons and disposed therebetween and rigidly secured thereto, a pair of vertically disposed angle irons, each being rigidly secured to one of said first named angle irons at its point of junction with said second named angle iron, and auxiliary frames pivotally carried by said first named angle irons, said frames comprising two bars rigidly connected at their adjacent ends, one of said bars being hinged to said horizontal frame member and adapted to swing in a horizontal plane, and the other bar being vertically disposed and adapted to swing in a vertical plane.

1,425,032. MUSICAL INSTRUMENT. PETER MILITO, Utica, N. Y., assignor of one-half to Salvatore Di Giacomo, Utica, N. Y. Filed Dec. 6, 1920. Serial No. 428,494. 6 Claims. (Cl. 84—171.)

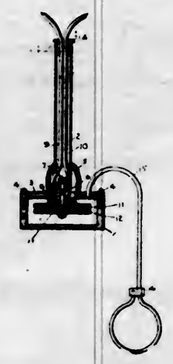


1. A musical instrument having a hollow body part and a neck part, strings stretched from said neck part to said body part, bells disposed within said hollow body part, and electric circuits operably connected to the bells but normally open, each of said strings constituting a part of one of the circuits to operate one of the bells.

1,425,033. VEGETABLE ALBUMINOID AND PROCESS OF PRODUCING IT. ANSIL MOFFATT, Indianapolis, Ind., assignor to Eben H. Wolcott, trustee for associate underwriter and said Moffatt. Filed Aug. 24, 1918. Serial No. 251,251. 4 Claims. (Cl. 99—11.)

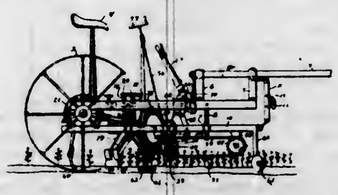
1. The process of producing a vegetable albuminoid food, which consists in submitting vegetable matter, as grains or legumes, to the action of an amylolytic acid, boiling the mixture until all the starch is converted into soluble matter, draining off the resultant liquid containing the amylolytic acid and soluble matter, and washing from the insoluble residue of insoluble albuminoids and fats, the soluble products of the amylolysis.

1,425,034. PORTABLE ELECTRIC LIQUID HEATER. ORAN W. MONTGOMERY, Lakewood, Ohio. Filed May 21, 1921. Serial No. 471,305. 4 Claims. (Cl. 219—41.)



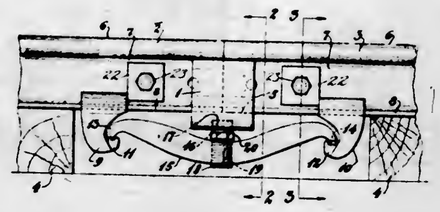
1. A portable electric liquid heater comprising a pair of annular electrodes, spaced and insulated apart, a case for receiving said electrodes, means for insulating said electrodes from said case, a plate covering said case, a series of apertures in said plate allowing for liquid circulation inwardly and outwardly of said case, means for fastening said plate to said case, a handle secured vertically to said plate, said handle serving as a protective support to an insulated conductor adapted to supply current to said heating electrodes, substantially as described for the purpose set forth.

1,425,035. COTTON CHOPPER. WALTER F. MOTTIKA, El Campo, Tex. Filed Apr. 22, 1920. Serial No. 375,882. 9 Claims. (Cl. 97—46.)



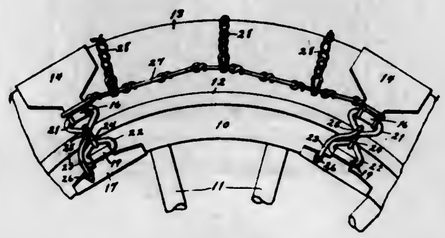
1. A device of the character described including a framework, ground wheels, runners depending from the framework and provided to move along the ground surface on opposite sides of a row of plants, furrow forming members depending from the framework in advance of said runners and provided to form furrows along which the runners may travel and a hoe mounted on the framework and movable transversely with respect to said row.

1,425,036. RAIL JOINT. JOHN B. MURRAY, Wilmington, Ill. Filed Nov. 25, 1921. Serial No. 517,601. 2 Claims. (Cl. 238—168.)



1. The combination with two rail sections, of a member having a groove therein adapted to receive the ends of said sections, said member being so fashioned as to abut the under side of the rail tread, a member carried by each section and being spaced from the end thereof, a bar disposed between and carried by said members, and a bolt carried by said bar and having its head adapted to support said first named member.

1,425,037. ANTISKID AND TRACTION DEVICE. FREDERICK W. MYERS, Des Moines, Iowa, assignor of one-half to F. E. Pieper, Des Moines, Iowa. Filed June 11, 1921. Serial No. 476,740. 3 Claims. (Cl. 152—14.)



1. A traction and anti-skid device, comprising a curved mud shoe formed with hooks at its ends, a felloe plate having a plane central portion and wings diverging from the same and terminating in hooks, a link flexibly connecting a hook of said mud shoe to a hook of said felloe plate, a link pivoted on the other hook of said mud shoe, a link pivoted on the other hook of said felloe plate, and a latching lever pivoted on one of said links and adapted to engage the other, said lever being offset laterally between its ends to avoid said hooks.

1,425,038. GARMENT FASTENER. ABRAHAM M. NADELL, Revere, Mass. Filed Oct. 8, 1921. Serial No. 506,339. 1 Claim. (Cl. 24—224.)

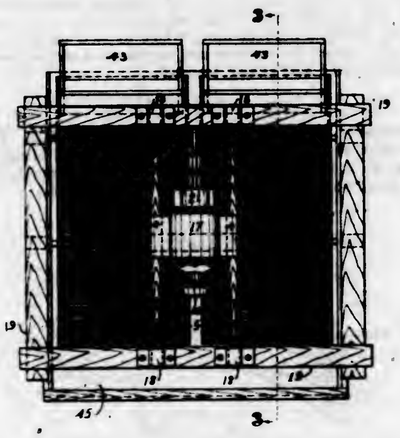
A garment fastening having a body provided with an opening to receive a headed stud and a slot extending from the opening and adapted to receive the neck of the stud, said body having integral therewith a locking portion which is bent back against the body and is formed with a locking edge which extends across said slot, the part of the locking portion adjacent said edge covering the aperture, whereby said locking edge is adapted to engage beneath the head of a stud occupying said slot

thereby to lock the stud in the slot, said locking portion having wings extending internally therefrom beyond the



body, which wings constitute finger pieces by which the locking portion may be separated from the body sufficiently to release the stud.

1,425,039. SCREENING MACHINE AND VIBRATING HAMMER THEREFOR. HERAND K. NAJARIAN, Salt Lake City, Utah. Filed June 18, 1921. Serial No. 478,702. 10 Claims. (Cl. 83—56.)



1. A screening machine comprising a support, a rigid frame, a screen supported on said frame, flexible means for yieldingly connecting said frame to said support, a vibrating hammer, yielding means for connecting said hammer to said support, said hammer comprising means for causing it to vibrate in the path of a distorted ellipse, means for transmitting vibrations from said hammer to said frame and rigidly connected to the latter, means cooperating with said motor for receiving vibrations therefrom, said means being out of contact with said hammer when the latter is inoperative but adapted to receive alternately directed blows from said hammer when the latter operates, and transmit the same to the screen frame thereby causing said frame and screen to vibrate in a lineal path twice during each cycle of elliptical vibration of the hammer once in a downwardly and once in an upwardly direction, from the initial position of rest of said screen frame.

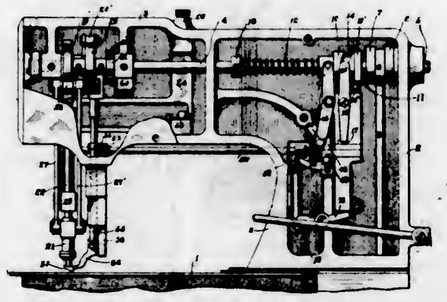
1,425,040. ELECTRIC HEATING IRON. NELS A. NELSON, Bode, Iowa, assignor to Baco Electric Co., Bode, Iowa, a Corporation of Iowa. Filed May 24, 1919. Serial No. 299,630. 11 Claims. (Cl. 219—26.)

1. In a device of the class described, a hollow head having means therein for the creation of an electric arc, said means comprising a longitudinally adjustable carbon, a handle connected to said head, and manually operated



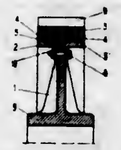
means on said handle for simultaneously adjusting said carbon and automatically controlling the electric circuit leading to the carbons.

1,425,041. PERFORATING MACHINE. DONALD NOBLE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Oct. 29, 1919. Serial No. 334,153. 15 Claims. (Cl. 164—88.)



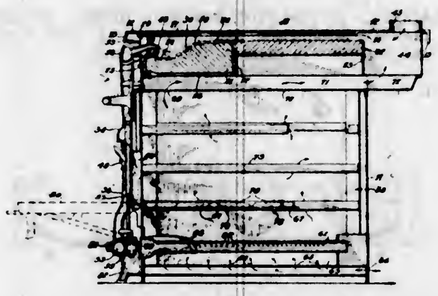
1. In a punching machine, a punch, means including a stop motion for imparting work piercing and retracting movements to said punch, a presser foot arranged to engage the work during the punching operation, and connections from said stop motion to said presser foot acting to raise said presser foot from the work on stopping the machine.

1,425,042. GEAR WHEEL. ADOLFO NUTINI, Verona, Italy. Filed Nov. 17, 1919. Serial No. 338,439. 1 Claim. (Cl. 74—28.)



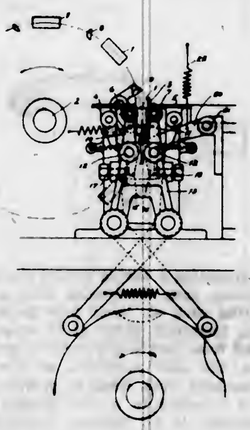
A toothed wheel or gear, comprising a wheel body consisting of sections contacting along planes passing through the wheel axis and providing a rim having a pair of inwardly-projecting, peripheral shoulders spaced apart to form a groove between them, the bottom wall of said groove being slit along its median line; a toothed ring consisting of sections inserted endwise into said groove; means for forcing said shoulders against the toothed ring sections so as to clamp them in position; and means for fastening the wheel body sections together in assembled relation.

1,425,043. GAS STOVE. HARRY W. O'DOWD, Jersey City, N. J., assignor to William M. Crane Company, a Corporation of New York. Filed Nov. 20, 1918. Serial No. 263,240. 20 Claims. (Cl. 126—39.)



1. A stove including a heating plate, a subjacent burner with a flame port directed downwardly away therefrom, and means underlying the burner and arranged in close proximity to the heating plate for radiating towards said plate the heat produced by said burner.

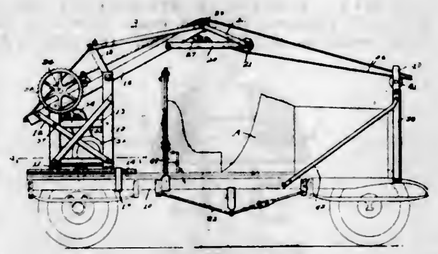
1,425,044. FOLDING DEVICE FOR BAG OR CAPSULE MAKING MACHINES. GUSTAF ÖSTRÖM, Stockholm, Sweden, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden, a Corporation of Sweden. Filed Sept. 14, 1920. Serial No. 410,217. 3 Claims. (Cl. 93—51.)



1. In a machine for making bags, capsules or the like from blanks of paper or similar material the combination with mandrels moving in an endless path and reciprocating top folders, between which the mandrel passes and by which the blank is folded round the mandrel, of rollers, bearing against opposite sides of the mandrel and forcing the blank against the said sides, and of a roller holding the blank against the mandrel during the folding operation.

1,425,045. VEHICLE-HANDLING APPARATUS. JOHN D. OWEN, Harriman, Tenn. Filed Sept. 13, 1920. Serial No. 409,869. 2 Claims. (Cl. 212—59.)

1. The combination with a motor operated vehicle, of a vehicle handling apparatus comprising a base adapted to be arranged upon the frame of said vehicle, clamps associated with the base and designed to embrace the sides of said frame, a supporting structure mounted on the base and including a boom, a turn table on said base and supporting said boom, said boom being arranged at the rear of the vehicle, a substantially U-shaped member arranged in advance of the radiator and terminally clamped to the frame of the vehicle, bracing elements connecting the sides of said member with the

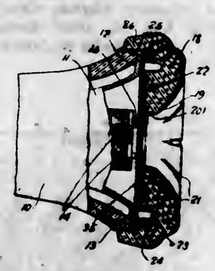


frame, guide pulleys journaled on said member, a rotatable shaft, means for rotating the shaft, a hoisting cable adapted to be wound upon and unwound from the shaft, a pulley journaled upon one end of the boom and over which said cable is trained, arms projecting forwardly from said boom, and a pulley journaled on said arms serving as a guide for said cable.

1,425,046. LIQUID POLISH FOR METALLIC AND OTHER SURFACES. JAMES A. PALMER, Jamaica Plain, Mass. Filed Apr. 26, 1922. Serial No. 556,751. 14 Claims. (Cl. 134—25.)

5. A process or method of making a liquid polish for metallic and other surfaces, which comprises dissolving about 4% of gilsonite in about 18% of commercial petroleum oil with the application of heat; adding about 21.5% of graphite and about 4.5% of carbon black; thoroughly mixing the mixture thus obtained while adding about 18% more of commercial petroleum oil and about 34% of carbon tetrachloride.

1,425,047. RECEIVER EARPIECE. HERMAN G. PAPE, New York, N. Y. Filed Apr. 15, 1921. Serial No. 461,484. 12 Claims. (Cl. 179—182.)



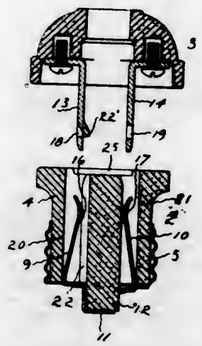
1. An earpiece having an adherent diaphragm clamping element of distinctly greater pliability than the main body thereof.

1,425,048. PROCESS OF PRODUCING ALKALI METAL SILICATES IN BLAST FURNACES. SAMUEL PEACOCK, Wheeling, W. Va., assignor of sixty per cent to Chauncey William Waggoner, Morgantown, W. Va. Filed Dec. 16, 1920. Serial No. 431,701. 2 Claims. (Cl. 23—13.)

1. The process of making an alkali metal silicate suitable for glass making purposes, which consists in pro-

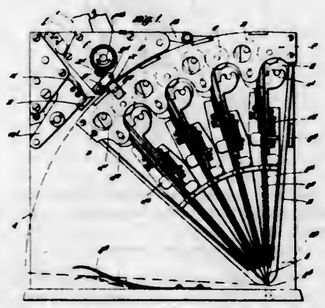
viding a mixture of carbon, silica, and a colorless non-oxidizing alkali metal compound in proportions adapted to produce the desired silicate, charging said mixture in a furnace of the blast type, igniting the charge, and withdrawing the slag produced, substantially as described.

1,425,049. ELECTRICAL ATTACHMENT PLUG. JOHANN G. PETERSON, Hartford, Conn. Filed June 12, 1919. Serial No. 303,612. 1 Claim. (Cl. 173—343.)



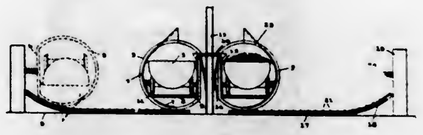
An electrical attachment plug consisting of a base and a cap, the base comprising an insulating body having longitudinal passages, only one of said passages being provided with a longitudinal offset portion, resilient contacts seated in said passages each of said contacts being provided with a projection at its free end, the said cap comprising contacts each provided with slots which cooperate with said projections to give a locking effect between the cap and base, the material from the slot of one of said cap contacts being formed into a spur which enters the said offset in the said passage of the base to give a polarized connection.

1,425,050. MACHINE FOR PRINTING AND ISSUING TICKETS AND THE LIKE. FREDERICK PHILLIPS, Brixton, London, England, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 26, 1919. Serial No. 292,901. Renewed Jan. 7, 1921. Serial No. 435,758. 50 Claims. (Cl. 101—69.)



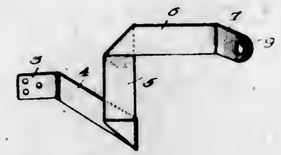
2. A machine for printing and issuing tickets comprising means for supporting and feeding a plurality of ticket strips and printing distinguishing characteristics upon each said strips, and a single set of devices adapted to imprint common subject matter upon all of the tickets including a single delivery passage adapted to receive the printed portion of any one of said strips.

1,425,051. AUTOMATIC ROLLING DUMP. ERSKINE RAMSAY, Birmingham, Ala. Filed Feb. 17, 1921. Serial No. 445,646. 12 Claims. (Cl. 214—51.)



1. The combination with a dump having means to receive and hold a car to be dumped, of a track on which the dump is adapted to roll laterally to dump the car, means to hold the dump in initial position on said track, and means responsive to gravity for causing the dump when released to roll to one side on its track to dump the car and automatically return to initial position.

1,425,052. WINDOW-SHADE BRACKET. EDWARD A. REJSA, Cedar Rapids, Iowa. Filed Aug. 31, 1920. Serial No. 407,123. 1 Claim. (Cl. 156—24.)

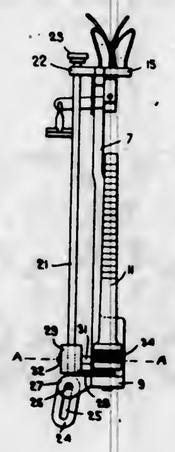


Brackets supporting a spring wound shade directly on a window casing, each constructed from a single piece of metal having each an inner foot portion, an angle arm extending therefrom which at its outer end is bent outwardly, and from thence angularly to provide a vertical extension, the said extension, at the end thereof being bent angularly upon itself to provide a front portion which is arranged in a line parallel to the foot but which projects in an opposite direction therefrom, said front having its end bent outwardly and formed with a notch or opening to receive the pintle of the shade thereon.

1,425,053. DOFFING DEVICE FOR SPOOLERS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 10, 1917. Serial No. 206,390. 7 Claims. (Cl. 118—18.)

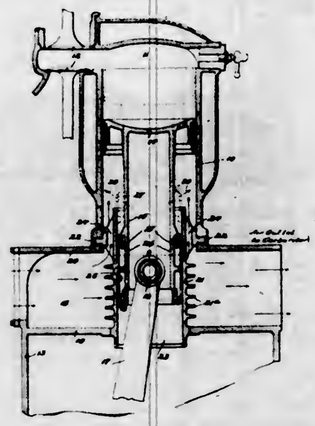
1. In a spooler, a yarn carrier holder, a stud carried thereby to receive and hold the yarn carrier in spooling position, an operating device mounted on the holder adjacent said stud and extended into a position to be readily accessible to the operative, an arm extending from said device beneath the yarn carrier when seated on said stud, a sliding cam connection between said device and said holder, and a spring controlled laterally movable plunger carried by the rod adjacent the butt

of the yarn carrier, the said cam connection acting to compress the spring as the device is operated to doff the



yarn carrier from said stud, whereby when the yarn carrier is lifted clear of the stud the plunger acts to shove it laterally.

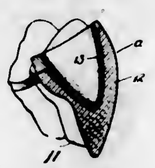
1,425,054. HYDROCARBON ENGINE. HARRY RALPH RICARDO, London, England. Filed Sept. 28, 1920. Serial No. 413,257. 10 Claims. (Cl. 123—171.)



1. In a hydrocarbon engine the combination with the crank case, the cylinder and a piston having an elongated stem and a cross-head, of a tubular crosshead guide having one end in communication with the crank case and the other end in communication with the cylinder and means for circulating air around substantially the entire outer surface of said crosshead guide for cooling purposes.

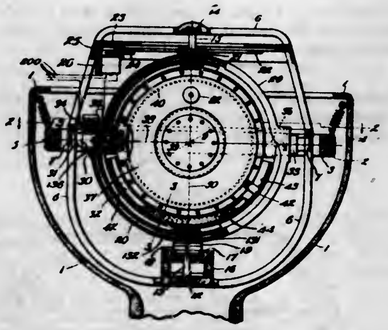
1,425,055. DENTAL CROWN STRUCTURE. JOSEPH ELON ROSE, Portland, Oreg. Filed Mar. 13, 1918. Serial No. 222,052. 7 Claims. (Cl. 32—30.)

1. A dental crown structure comprising an enveloping jacket having the exterior configuration and color of a natural tooth and open at one end so as to be readily slipped over a prepared tooth, and a base of gold having



its exterior surface secured to the interior of said jacket and having its interior surface adapted to be secured to the exterior of the prepared tooth by an adhesive.

1,425,056. GYROSCOPIC COMPASS. GEORGE A. ROSSITER, Brooklyn, N. Y., assignor to The Carrie Gyroscopic Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 8, 1919. Serial No. 275,805. 3 Claims. (Cl. 33—204.)

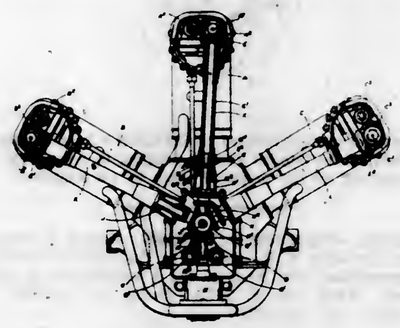


1. In a gyro compass the combination of a directive element; a supporting means for mounting said element for oscillation around a horizontal axis; means for mounting said supporting means for movement about a vertical axis; and a movable mass of mercury associated with said directive element, the center of gravity of which is maintained in its lowest position when either end of said horizontal axis is tipped, substantially as described.

1,425,057. INTERNAL-COMBUSTION ENGINE. ARTHUR JOHN ROWLEDGE, London, England, assignor to D. Napier & Son, Limited, London, England. Filed Nov. 19, 1917. Serial No. 202,795. 9 Claims. (Cl. 123—55.)

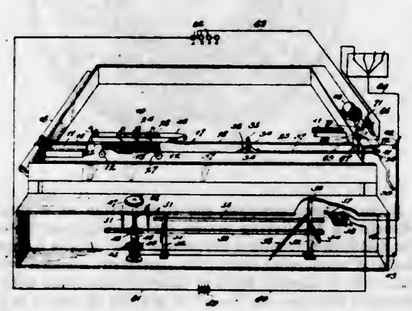
2. In an internal combustion engine the combination of three blocks of cylinders arranged so that the axes of the cylinders lie in three planes relatively inclined about the crank shaft axis, a cam shaft mounted on the head of each block of cylinders, a bevel wheel on one end on each cam shaft, a crank shaft, a bevel wheel towards one end of the crank shaft and driven thereby, a second bevel wheel adjacent to the first bevel wheel and similarly driven by the crank shaft, three intermediate shafts through which the cam shafts are driven from the crank shaft all these three shafts lying truly radial with relation to the crank shaft axis, a bevel wheel on the outer end of each intermediate shaft gearing with the bevel wheel on the end of the corresponding cam shaft, a bevel wheel on the inner end of each lateral intermediate shaft

these two bevel wheels gearing with the first bevel wheel on the crank shaft, a second bevel wheel on one of the lateral intermediate shafts and positioned near its inner end, a bevel wheel on the inner end of the central intermediate shaft this bevel wheel gearing with the second bevel wheel on the lateral intermediate shaft, and two



magnetos each having on its shaft a bevel wheel which gears with the second bevel wheel on the crank shaft as set forth.

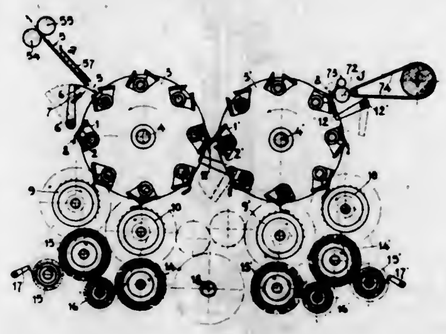
1,425,058. ROWING RACE. RYUJI SATO and CHIYOSABURO MATSUI, New York, N. Y. Filed Jan. 15, 1921. Serial No. 437,445. 3 Claims. (Cl. 46—56.)



1. In a device of the class described, the combination of a tank, a boat mounted for movement in said tank, manual means for moving said boat in said tank, a slide bar mounted in said boat, manikins mounted on said slide bar, oars pivoted on said boat, operative connections between the manikins and said oars and means for automatically reciprocating said slide bar to cause said manikin to operate said oars upon operation of said manual means.

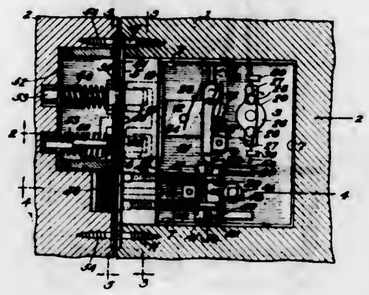
1,425,059. MACHINE FOR COMBING TEXTILE FIBERS. RICCARDO SCHLEIFER, Milan, Italy. Filed May 17, 1921. Serial No. 470,272. 14 Claims. (Cl. 19—117.)

1. In a machine for combing textile fibers, a plurality of rotary drums, a notched driving member fixed on each drum, a carrier mounted on the shaft of each drum, means for oscillating the carriers, a driving pawl mounted on each carrier adapted to engage the notches of the driving member, a locking pawl for each drum adapted to engage said notches, means connecting the locking pawls together, means for oscillating the locking pawls, and means actuated by the movement of locking pawls for oscillating the driving pawls on the carriers, whereby the driving and locking pawls alternately engage the



notches of the driving members during the oscillation of the carriers in one direction or the other so as to effect alternately an intermittent driving and locking of the drums.

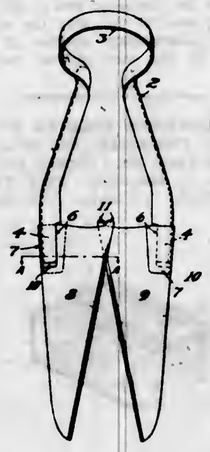
1,425,060. MORTISE LOCK. SAMUEL SEGAL, New York, N. Y., assignor to Segel Metal Products Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 12, 1920. Serial No. 358,221. 18 Claims. (Cl. 70—46.)



4. In a lock for a door, a movable keeper fastened to the door frame and adapted to be moved into inoperative position by the door and to assume an operative position when the door is closed and a locking bolt mounted on said door adapted to extend through said keeper to effect an interlocking of said ear and locking bolt.

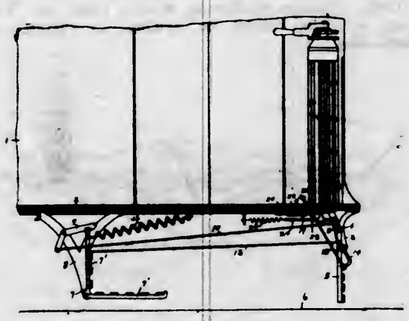
1,425,061. SHEARS. WALTER F. SHERMAN, Elsmere, N. Y. Filed Mar. 8, 1920. Serial No. 364,327. 2 Claims. (Cl. 30—1.)

1. In a shears of the class described, a substantially U-shaped handle the center thereof a spring, the ends thereof flattened to substantially the thickness of the shear blades and slightly wedge shaped; and shear blades notched at one corner and the notch covered by a clip



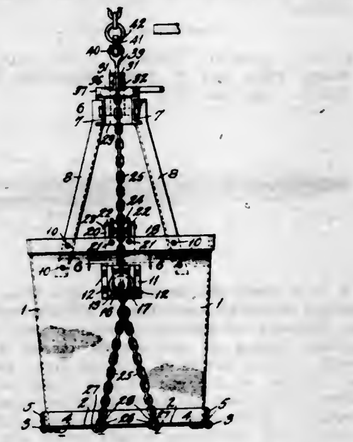
fastened to the blade so as to form a slightly tapered recess into which an end of the handle is adapted to fit.

1,425,062. SAFETY APPLIANCE FOR STREET CARS. DONALD O. SHIVELY, Houston, Tex. Filed Aug. 5, 1921. Serial No. 490,103. 2 Claims. (Cl. 293—5.)



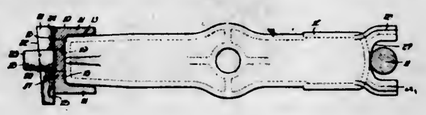
1. The combination with a street car of a rotatable transverse bearing rod carried by the front end of the car, a fender trip depending from said rod, a fender depending from the car behind said trip formed with wings extending at substantially right angles to each other, said fender being pivotally mounted and extending entirely across the railway track, a latch pivoted to the car, one end of which is upwardly beveled and notched to engage over the edge of one of said wings, and an arm fixed to and upstanding from said rod, a release rod pivoted at one end to the other end of said latch and pivoted at its other end to said arm, a pull string attached at one end to said last mentioned wing of the fender and attached at its other end to the car in front of the fender, a reset rod pivoted at one end to said last mentioned wing, a reset lever pivoted to a suitable bracket carried by the front end of the car the other end of said reset rod being pivoted to the upper end of said reset lever, a push rod working through a bearing in the car floor and pivoted at its lower end to the other end of said reset lever, and whose upper end is formed into a pedal.

1,425,063. SELF-ADJUSTING DUMP BUCKET. GEORGE W. SLAUTER, Dixon, Ill. Filed Dec. 2, 1920. Serial No. 427,894. 9 Claims. (Cl. 294—71.)



1. In a self-adjusting dump bucket the combination with the body thereof having swinging bottom sections, a suspension yoke, bale levers thereon arms rigidly attached to the yoke and to the bucket, and a hanger above the yoke and connected to it by the levers of a cable or chain on each side of the bucket, connected at its lower end with each of the bottom sections and means connecting it at its upper end with the hanger.

1,425,064. REVERSIBLE FULCRUM ARRANGEMENT. ARTHUR SPARROW, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 27, 1921. Serial No. 510,895. 5 Claims. (Cl. 188—232.)



3. In a brake beam, the combination of a compression member having a web and flanges, said web having an opening, a reversible fulcrum post having a portion interposed between said flanges and engaging the web, said fulcrum post having an apertured projection extending through an opening in the web of the compression member, and a wedge at the rear of the compression member extending through the opening in said projection for forcing the above mentioned portion of the fulcrum post into engagement with the web of said compression member for holding the fulcrum post in adjusted position.

1,425,065. GROWING OF YEAST. BERT A. STAGNER, Pittsburgh, Pa., assignor, by mesne assignments, to National Retarder Company, Chicago, Ill., a Corporation of Ohio. Filed July 6, 1918, Serial No. 243,730. Renewed Aug. 30, 1921. Serial No. 497,046. 3 Claims. (Cl. 195—20.)

1. The method of growing bakers' yeast of good color, odor and keeping qualities, and having good baking strength in the manufacture of leavened bread, which comprises supplying to the seed yeast suitable carbohydrate material and the products of hydrolysis of keratin

or keratin containing materials as nitrogenous material for the growth of the yeast, the amount and character of such products of hydrolysis being sufficient to enable rapid growth and increase of the yeast; substantially as described.

1,425,066. PENCIL. CHARLES A. STICKNEY, St. Paul, Minn. Filed July 26, 1920. Serial No. 399,171. 3 Claims. (Cl. 120—18.)



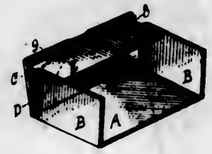
3. In a pencil the combination of a stem having an aperture extending longitudinally therethrough of different diameters at different portions of said stem, said aperture having at one portion thereof an interior thread, a crown having an extended barrel positioned in the aperture at one end of said stem and rotatable therein, said crown having an aperture extending therethrough, an interior shoulder at one end of said aperture, a feed screw positioned in said crown and having a squared head slidable in a squared portion of the aperture of said barrel, a spring positioned between said squared head and said interior shoulder of said barrel, a tip carried by the opposite end of said barrel and having a longitudinal aperture therethrough, with means for gripping a lead carried therein, and a pin carried by the interior end of said screw to force said lead from said barrel as said crown is rotated.

1,425,067. HOSE STAND. BERT E. STONE, Plattsburg, N. Y. Filed Oct. 10, 1921. Serial No. 506,697. 1 Claim. (Cl. 248—29.)



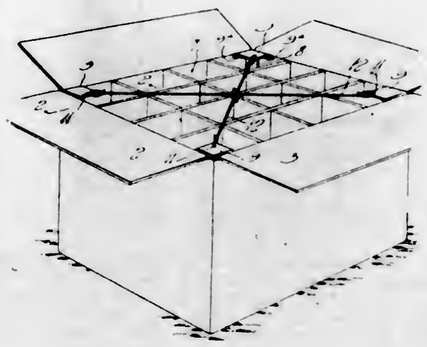
A hose stand including a vertically disposed rod having a slot formed therein adjacent its upper end, a laterally disposed pin carried by said rod and disposed adjacent said slot, an adjusting device formed from a single piece of metal bent between its ends to form a flattened tubular portion and a pair of disk-like parts having teeth around their peripheries for co-action with said pin, a connection passing through said disk-like portions and said slot to permit said device to be lifted for disengaging the teeth thereof from said pin, and a nozzle-engaging member formed from a single length of wire bent between its ends to provide an upstanding arched guide for the discharge end of the nozzle and a pair of resilient jaws for engaging the body portion of the nozzle, the intermediate portion of said member being disposed in the flat tubular portion of said device.

1,425,068. COLLAPSIBLE FOLDING BOX. STAFFORD F. SUTHERLAND, Philadelphia, Pa., assignor to Sutherland Collapsible Paper Box Company, Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 25, 1921. Serial No. 447,665. 7 Claims. (Cl. 229—23.)



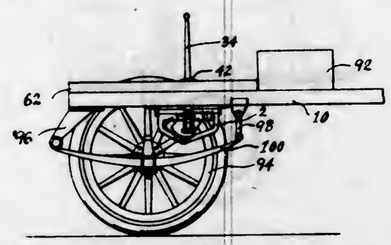
1. A collapsible box having a bottom, foldable side walls connected to the bottom, foldable end walls also connected to the bottom, corner folds connected with the side and end walls and comprising foldable triangular sections, and separate flexible locking flaps attached to the end walls along the free edge of the wall.

1,425,069. CORNER REENFORCEMENT FOR CARTONS. CHARLES B. TAYLOR, Winona Lake, Ind. Filed June 4, 1920. Serial No. 386,568. 1 Claim. (Cl. 229—49.)



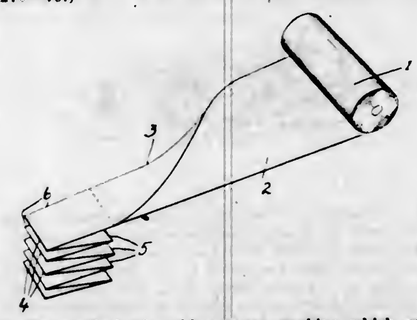
A carton comprising a receptacle, superposed frames in said receptacle providing article receiving cells, a partition strip between said frames, and a reenforcement for said frames within said receptacle, said reenforcement comprising corner posts fitting within the corner portions of said receptacle and engaging the corner portions of said frames, upper and lower plates fitting upon the ends of said corner posts and extending diagonally toward each other across the frames and having side flanges secured to the side faces of said posts, and trusses each being connected with the plates of corner posts at one side of the carton, the trusses being drawn inwardly and having their intermediate portions releasably connected.

1,425,070. CONTROLLER FOR ELECTRICAL VEHICLES. CHARLES A. WARD, Mount Vernon, N. Y. Filed June 11, 1920. Serial No. 388,200. 13 Claims. (Cl. 180—77.)



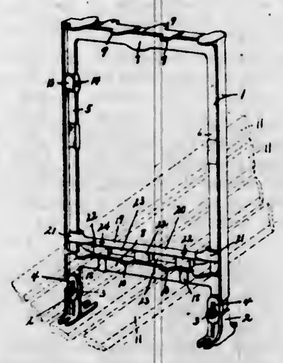
1. Controller mechanism for electric vehicles comprising, in combination with the chassis frame and crossbars spaced upon said frame, supporting brackets at the ends of said mechanism spanning, connected to and suspended from said crossbars.

1,425,071. METHOD OF MAKING PAPER NAPKINS. COURTNEY P. WINTER, New Brunswick, N. J. Filed July 8, 1921. Serial No. 483,213. 2 Claims. (Cl. 270—79.)



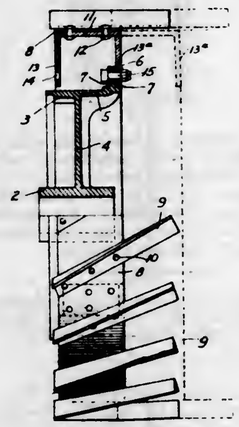
1. The method of making paper napkins which comprises folding a web of paper longitudinally, zig-zag folding said longitudinally folded web to form a pile, and cutting through the pile on the median transverse to the web.

1,425,072. SECTIONAL TABLE. WALTER A. ADAMS, Rochester, N. Y. Filed Apr. 28, 1920. Serial No. 377,238. 4 Claims. (Cl. 45—31.)



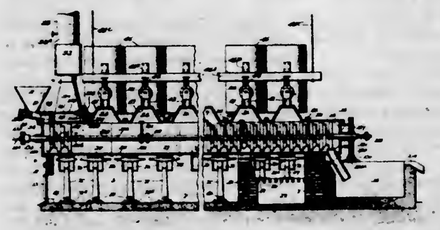
4. In a knock-down table a rigid rectangular frame comprising a pair of uprights and connecting cross bars, a clamping member having its opposite ends bifurcated for slidable engagement with said uprights respectively, and its intermediate portion formed with a series of projecting box-like structures in substantial contact with one of said cross-bars, and means for securing the clamping member to the cross bar.

1,425,073. WHEEL. EDWIN R. BEEMAN, Minneapolis, Minn., assignor to Beeman Tractor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed July 21, 1919. Serial No. 312,377. 7 Claims. (Cl. 301—6.)



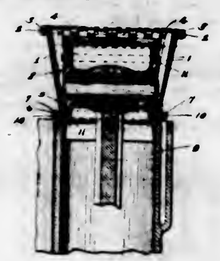
7. A wheel comprising a hub, an inner rim connected with said hub and provided with a gear ring, an outer rim, substantially U-shaped clips having flattened middle portions adapted to be seated against the inner face of the outer rim and secured thereto and provided with inwardly projecting arms, said inner rim having outwardly projecting lugs formed thereon provided with seats to receive the ends of said arms for offsetting said outer rim with respect to the plane of the inner rim, and bolts mounted in said arms and lugs for securing them together.

1,425,074. RETORT FURNACE AND CONDENSING APPARATUS FOR THE EDUCTION OF OIL AND FUEL GAS FROM OIL SHALES AND OIL SANDS. CHARLES L. BUCKINGHAM, Denver, Colo. Filed Feb. 1, 1921. Serial No. 441,604. 12 Claims. (Cl. 196—19.)



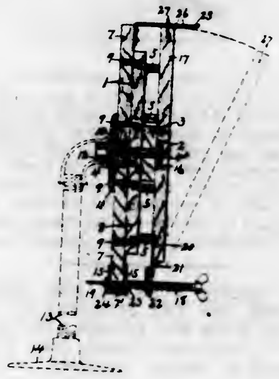
4 In an apparatus of the character described, the combination with supporting walls enclosing a flue span, of a retort U-shaped in cross section, the sides of which terminate in longitudinal flanges which rest on said walls and support said retort, a cover for said retort having a plurality of gas domes, means for feeding material into one end of said retort, an outlet at its opposite end, rotatable means for continuously advancing said material toward said outlet, heating elements in said flue space, and pipes leading from said gas domes.

1,425,075. DEVICE FOR PLACING PISTONS HAVING RINGS IN CYLINDERS. GEORGE B. CADY, Canastota, N. Y. Filed Mar. 22, 1920. Serial No. 367,860. 5 Claims. (Cl. 29—90.4.)



1. A device for placing pistons having rings in cylinders comprising a funnel having lengthwise extending sections pivoted at their upper ends so that their lower ends at the small end of the funnel can swing radially to expand and contract to conform to the periphery of the piston, and means for contracting the sections, substantially as and for the purpose described.

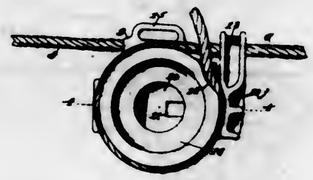
1,425,076. REEL. CHARLES D. CATE, Syracuse, N. Y., assignor of one-half to J. Dwight Fisk, Syracuse, N. Y. Filed Dec. 29, 1920. Serial No. 433,776. 6 Claims. (Cl. 242—105.)



4. In a device for holding coiled material, the combination of a main frame having means on one side for attachment to a support and its opposite side provided with a flat bearing face for aliming the edges of a coil, a drum rotatably mounted on the frame adjacent said bearing face and wholly within the marginal edges thereof, stop pins projecting from said bearing face across the periphery of the drum in radially spaced relation thereto, a spindle journaled on the frame at one side of the drum and provided with a threaded end projecting across the periphery of said drum, a nut engaged with said threaded end for axial adjustment thereon, and a movable frame hinged to said nut for tilting and axial movement relatively thereto and toward and from the main frame, and means at the opposite side of the drum for locking and releasing the movable frame in and from its closed position.

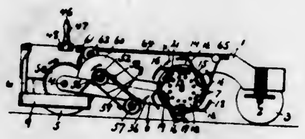
1,425,077. CABLE-TAKE-UP GRIP. ROY E. CHOATE, Cedar Rapids, Iowa. Filed Dec. 16, 1918. Serial No. 266,887. 4 Claims. (Cl. 24—133.)

3. A cable take-up, comprising a fixed member with a section of cable attached thereto, and having an upstanding jaw to engage a segment of cable and a cable-guide lateral thereto, the top of said member being slotted and its end open, substantially as described, and a circular, peripherally grooved disk having a depending



lug to pass through said slot, and a hook entering said end opening, and whereby the disk is held to slide in a direction perpendicular to said jaw, and means connecting with said lug to hold the parts together.

1,425,078. STONE PICKER. EUGENE C. CLARK, Oswego, N. Y. Filed Oct. 4, 1921. Serial No. 505,329. 3 Claims. (Cl. 55—17.)

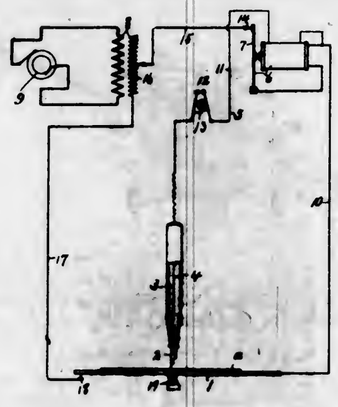


1. A stone-picker comprising a wheeled vehicle adapted to be drawn along and upon the surface of the ground, a rotary drum movable about an axis parallel with that of the wheels, means actuated by the wheels for rotating the drum in a reverse direction to that of the wheels, an endless conveyer at the rear of the drum and operated by a part of said means for receiving stones from the drum, a receptacle under-lying the rear end of the conveyer for receiving stones therefrom, and hook-shaped pick-up fingers projecting from the periphery of the drum in the direction of rotation thereof for picking up stones and depositing them on the conveyer, said pick-up fingers being arranged in rows lengthwise of the drum and in circumferentially spaced relation, said drum having guard-plates hinged to swing inwardly and outwardly between the several rows of fingers, and means for causing said guard-plates to swing outwardly as the several rows of pick-up fingers are successively presented to their discharging positions.

3. In a mechanical stone-picker, the combination of a wheeled vehicle, a rotary drum mounted thereon, means actuated by certain of the wheels of said vehicle for rotating the drum, pick-up fingers projecting from the periphery of the drum in the direction of rotation thereof and arranged in rows lengthwise of the drum in circumferentially spaced relation, all of the fingers of each row being movable endwise on the drum, and alternate fingers of each row having an independent oscillatory motion in the direction of rotation.

1,425,079. ELECTRIC PERFORATING APPLIANCE. RALPH R. CONE, Syracuse, N. Y., assignor to Louis Will, Syracuse, N. Y. Filed Mar. 24, 1919. Serial No. 284,867. 3 Claims. (Cl. 175—265.)

3. In an electric perforator appliance of the character described, a bed-plate of electric conducting material having a smooth unbroken surface of the same material for supporting the sheets to be operated upon, a writing instrument of electric conducting material cooperating with the plate for perforating purposes, and means for



supplying current energy to said plate and writing instrument including a normally open electric switch of which the plate constitutes one member.

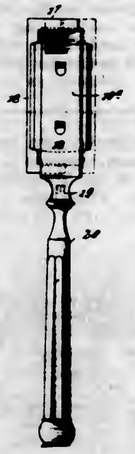
1,425,080. CANDLE EXTINGUISHER. THOMAS CULLEN, Amboy, Ill. Filed Aug. 4, 1920. Serial No. 401,160. 4 Claims. (Cl. 67—24.)



1. In a candle extinguisher, a staff, a cylindrical cap mounted at the upper end of said staff at an angle with said staff, and a tubular drip receptacle, with its opening beneath that of said cap, secured to said staff.

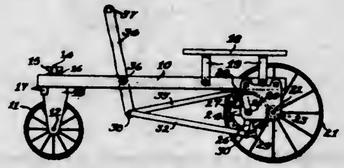
1,425,081. SAFETY-RAZOR-STROPPING DEVICE. PATRICK J. DWYER, New York, N. Y. Filed Sept. 4, 1919. Serial No. 321,644. Renewed Apr. 13, 1922. Serial No. 552,229. 2 Claims. (Cl. 30—25.)

1. A stropping device including a plate, a pair of studs thereon, a second plate having slots to receive the stud and adapted to receive a double edge blade between said plate, the first plate having its ends bevelled, a guard member having parallel ends the inner faces of said ends being grooved to receive the bevelled ends of the first plate whereby the guard may be automatically held in either one position or the other adjacent either



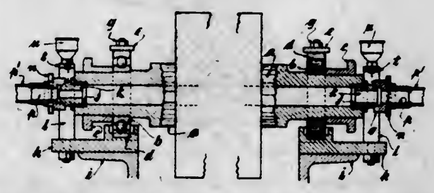
edge of the first plate, and means for pivotally mounting said guard for movement in the manner stated.

1,425,082. DRIVING MECHANISM FOR VELOCIPEDES. GEORG EKLUND, Winona, Minn. Filed Dec. 10, 1920. Serial No. 429,772. 10 Claims. (Cl. 208—36.)



1. In driving mechanism for a velocipede having a frame and a drive wheel, a spur gear operatively connected to said drive wheel, a tiltable support for a pawl at the periphery of said gear, a pawl having a notch to receive the teeth of said gear and a slot through said pawl to receive a pin, a single pin through said slot connecting said pawl to said support and means for oscillating said pawl whereby said pin will press said pawl to engage the teeth of the gear to rotate the same.

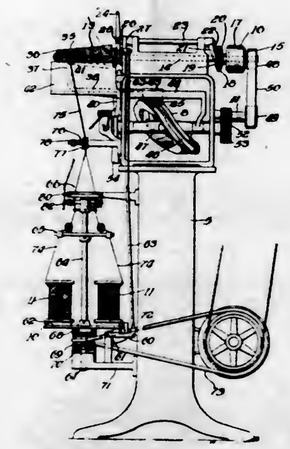
1,425,083. TEXTILE AND LIKE DRYING CYLINDER. ERNEST FARRELL, Salford, England. Filed Dec. 15, 1919. Serial No. 345,089. 2 Claims. (Cl. 285—3.)



1. In combination, a cylinder with hollow trunnions, anti-friction bearings for each trunnion, and means for supporting and positioning said bearings, conduits for conveying steam or other fluid to and from the cylinder, metal-to-metal ball and socket joints between the trun-

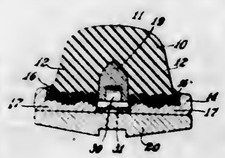
nions and conduits, one member of each joint being connected to the trunnion and one to the conduit and the member connected to the trunnion being slightly eccentric on its exterior to the axis of the cylinder, means by which the conduit and the member of the joint secured to the conduit are supported so as to be free to oscillate, and means for yieldingly pressing the conduit towards the trunnion, as set forth.

1,425,084. TWISTING AND WINDING MACHINE. ARNOLD FRIEDLANDER, Milwaukee, Wis., assignor to Phoenix Knitting Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 1, 1920. Serial No. 385,473. 7 Claims. (Cl. 117—26.)



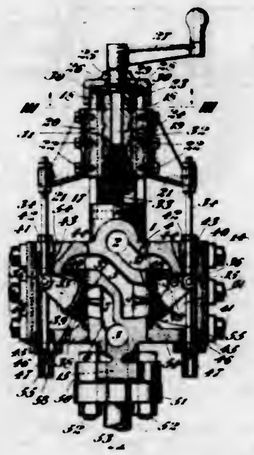
1. In combination, a source of power, means for twisting two or more strands of material into a single coarser strand, means for winding said coarser strand into a roll or cop and a detector for automatically disconnecting said twisting and winding means from said source of power and from each other upon breaking of one of said strands.

1,425,085. METHOD AND APPARATUS FOR MAKING CUSHION TIRES. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 11, 1920. Serial No. 388,090. 15 Claims. (Cl. 18—42.)



1. The method of making cushion tires which comprises assembling a core member with an integral, perforate tire base, building a rubber tire body on the base, over said core member, permanently uniting it with the base by vulcanization, and withdrawing said core member through an opening in the base.

1,425,086. FLUID-PRESSURE-CONTROLLING VALVE. HARRY R. GREB, Johnstown, Pa. Filed Mar. 10, 1920. Serial No. 364,629. 15 Claims. (Cl. 138—16.)



1. In a fluid-pressure controlling valve, a valve seat casing, a valve box attached thereto, a rocker type valve therein, and means for operating said valve.

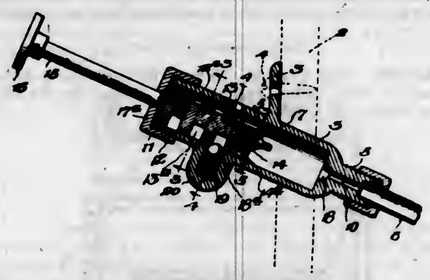
1,425,087. GAME. FRANK H. HAINES and EARL B. PARSONS, Camden, N. J. Filed June 11, 1920. Serial No. 388,254. 2 Claims. (Cl. 46—41.)

1. A device of the class described comprising a box, a base member therein having a diamond shaped figure thereon, a circular depression within the diamond, said base member having a hole at each corner of the diamond, the holes being consecutively numbered, the numbers representing points made and other holes outside of the diamond shaped figure and representing points lost, weighted members or players adapted to enter the said holes, a spherical member adapted to remain in the depression and a grooved path extending from one corner of the base member to the said central base depression.

1,425,088. VALVE-CONTROL DEVICE. OSCAR HAYES, Denver, Colo. Filed Aug. 14, 1918. Serial No. 249,768. 11 Claims. (Cl. 251—25.)

1. A valve control device of the character described comprising a valve casing having an inlet and an outlet, the latter being adapted to be connected with an engine part such as the intake manifold, and a bodily movable valve in the casing provided with a plurality of variably

ported disks adapted to be positioned between the inlet and the outlet of the casing for regulating the supply



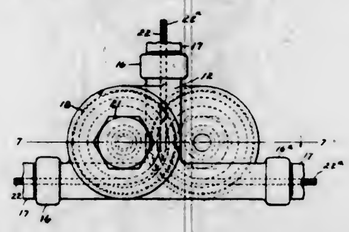
of fluid through said outlet, and actuating means directly connected to the valve and projecting without the casing.

1,425,089. KEY CLASP. JESSE P. HENRY, St. Louis, Mo., assignor to L. B. Tebbetts & Company, Incorporated, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 21, 1921. Serial No. 463,134. 3 Claims. (Cl. 24—3.)



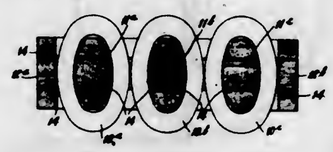
1. A key clasp comprising two U shaped members, the base of one member being attached to the base of the other member and the legs of one member being disposed between the legs of the other member.

1,425,090. CONDUIT FOR POWER-TRANSMITTING CABLES. LOUIS V. HOMAN, South Dartmouth, Mass. Filed June 1, 1920. Serial No. 385,410. 1 Claim. (Cl. 254—190.)



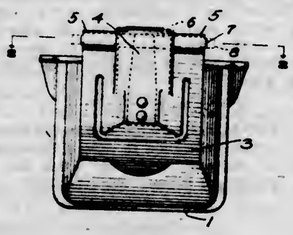
An angular conduit member comprising a hollow body including two body portions forming two pulley chambers, and including screw-threaded annular walls forming openings at opposite sides of the body, and each provided with tangentially arranged tubular conduit nipples, the nipples on each wall being angularly arranged relatively to each other, and adapted to be coupled to conduit tubes; pulley-bearing studs fixed to the said body portions and projecting through the centers of said chambers, pulleys removably journaled on said studs, and adapted to guide flexible cables passing through said nipples; and caps formed to close said openings and confine the pulleys on the studs, said caps being provided with screw threads engaging the screw threads of the said annular walls, so that the caps are detachable to permit access to the pulleys, and the removal of the latter from the studs, the said body portions being offset from each other to locate the said pulley chambers and pulleys in different parallel planes.

1,425,091. POLYPHASE TRANSFORMER. SAMUEL HERRLICK, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed May 28, 1921. Serial No. 473,335. 8 Claims. (Cl. 175—356.)



1. A polyphase transformer comprising coils side by side in the same plane, and a laminated transformed core having all of its laminæ in planes parallel to each other and having a lengthwise portion extending along each end of the coils respectively, and having intermediate portions connecting said lengthwise portions and extending through the coils, and also having end portions located at the outside of the end coils respectively and connecting the said lengthwise portions, the magnetism created in the said intermediate portions of the core all passing in said parallel laminæ, and the cross section of each of said end portions being approximately half that of one of said intermediate portions, the said intermediate and end portions having greater depth of said parallel laminæ in a direction perpendicular to the plane of the coils than width, and the interior dimension of said coils in a direction perpendicular to the plane of the coils being greater than the dimension in a direction parallel to their plane.

1,425,092. JOURNAL-BOX LID. LEIGH W. HOSTETTLER, Tarentum, Pa., assignor to Allegheny Steel Company, a Corporation of Pennsylvania. Filed Nov. 22, 1920. Serial No. 425,637. 4 Claims. (Cl. 64—23.)



1. A journal-box lid provided with a cylindrical portion adapted to receive a hinge pin and having ears at the end thereof adapted to be bent over the ends of said cylindrical portion to retain a hinge pin within same.

1,425,093. METHOD OF MAKING JOURNAL-BOX LIDS. LEIGH W. HOSTETTLER, Tarentum, Pa., assignor to Allegheny Steel Company, Brackenridge, Pa., a Corporation of Pennsylvania. Filed Jan. 27, 1921. Serial No. 440,347. 4 Claims. (Cl. 29—148.2.)

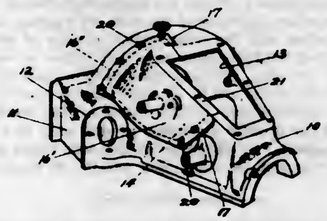
1. The method of constructing a journal box lid with a hinge pin eye of accurate diameter which includes bend-

ing a portion of the body of said lid into an eye of substantially circular formation, distorting a portion of said



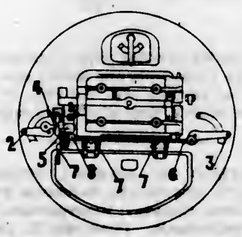
lid adjacent to said body portion and said eye to provide a reinforcing web, and inserting a piece of commercially produced tubing within said eye.

1,425,094. **TRANSMISSION CASING.** WILLIAM FRANKLIN HUDSON, Philadelphia, Pa. Filed Jan. 30, 1922. Serial No. 532,634. 4 Claims. (Cl. 74—56.)



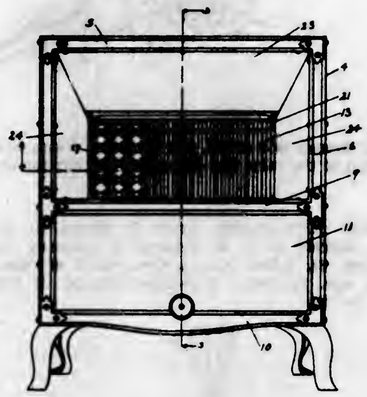
1. In a construction of the character stated a transmission-casing unit having a conventional top-opening and a side-opening in communication therewith a part of which side-opening is formed upon an irregular, curved line, a detachable cover-plate for said side-opening which plate is so shaped that a continuous part or rim thereof seats wholly within said opening and an adjacent, continuous part overlies the casing body to close any space between the parts so seated and means for clamping the cover-plate to place.

1,425,095. **FURNACE FRONT.** JAMES HOWDEN HUME, Glasgow, Scotland, assignor to James Howden & Company, Limited, Glasgow, Scotland. Filed Dec. 4, 1919. Serial No. 342,337. 1 Claim. (Cl. 110—172.)



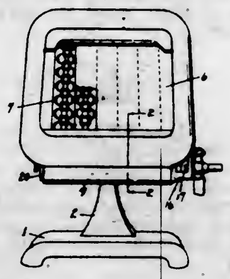
In combination with a furnace front for forced draught installations, a firing door, two air valves, one at each side of said firing door, two operating handles, one for each valve, and two door locking members, one connected to each handle for preventing the opening of said firing door until both handles are in position to close both valves.

1,425,096. **GAS STOVE.** HUBERT R. HUMPHREY, Kalamazoo, Mich. Filed Apr. 16, 1921. Serial No. 461,945. 7 Claims. (Cl. 126—92.)



7. In a gas stove, the combination of a casing open at the front, a fireback mounted at the rear of said casing, radiants disposed in front of said fireback, a burner associated with said radiants, and top, bottom and side reflectors of substantial depth, said reflectors being disposed relative to the radiants so that the radiants constitute the rear wall of a space inclosed by the reflector.

1,425,097. **GAS BURNER.** HUBERT R. HUMPHREY, Kalamazoo, Mich. Filed May 13, 1921. Serial No. 469,138. 9 Claims. (Cl. 158—112.)



3. In a gas burner, the combination of a body member provided with a cylindrical manifold chamber and internal annular ribs spaced therein, a tubular screen arranged in said manifold chamber and coacting with said ribs to provide a plurality of annular delivery chambers, burner tips mounted on said body member opening into said delivery chambers, the outer end of said body member being open to receive said screen, a closure for said opening on which the outer end of said screen is mounted, and a Bunsen tube projecting into said manifold centrally of said screen.

1,425,098. **CONTROLLER FOR OSCILLATING WASHING-MACHINE TUBS.** WARD S. IRELAND and WILLIAM H. MEYER, St. Louis, Mo., assignors, by mesne assignments, to The Davis Sewing Machine Company, a Corporation of Delaware. Filed Oct. 16, 1919. Serial No. 331,166. 2 Claims. (Cl. 259—75.)



1. A washing machine comprising a stationary casing, supports projecting inwardly from opposite sides of said casing and provided with laterally extending arms, bearings formed in said supports, an oscillatory tub journaled in said bearings, and oscillation controlling means pivoted at their outer ends to the side walls of the tub and at their inner ends to said laterally extending arms.

1,425,099. **DRAIN BOARD FOR CLOTHES WRINGERS.** WARD S. IRELAND, St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company, a Corporation of Delaware. Filed Oct. 27, 1919. Serial No. 333,599. 6 Claims. (Cl. 68—32.)



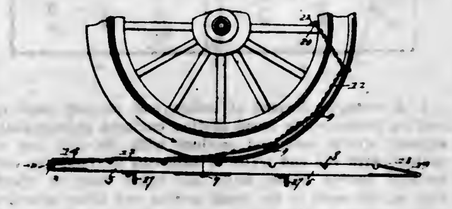
1. The combination with a wringer having a main drain board, of a supplemental drain board adapted to be slipped onto either side of said main drain board so as to extend from either of said sides, and fastening means whereby said supplemental drain board may be secured at either of said sides.

1,425,100. **FUNNEL.** JAMES E. JONES and FRANK C. NEWTON, Syracuse, N. Y.; Gertrude L. Jones, administratrix of said James E. Jones, deceased, assignor to the said Frank C. Newton. Filed Sept. 3, 1919. Serial No. 321,418. 2 Claims. (Cl. 226—37.)



1. In a bottle filler, the combination of a funnel having an outlet tube adapted to be inserted in the mouth of the bottle to be filled and provided with a flange, a plate movable lengthwise of the outlet tube at the underside of the flange for engagement with the mouth of the bottle when the filler is placed in operative position thereon, said plate being moved toward and against the flange by said engagement, a float valve for opening and closing said outlet, means for automatically closing the valve when the filler is removed from the bottle, and means actuated by the plate for operating the first named means to allow the valve to open by its own weight when the filler is supported upon the bottle, said float-valve being operable by the rising of the liquid in the bottle to close the outlet independently of the first and second named means.

1,425,101. **FOOTING FOR AUTOMOBILES.** WILLIAM JURY, Lansing, Mich. Filed May 25, 1922. Serial No. 563,687. 5 Claims. (Cl. 238—14.)



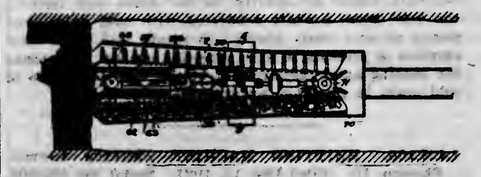
1. In a footing for automobiles, a base, a flexible element having a looped portion embracing one end of the base and side portions extending longitudinally of the base, and means for securing the ends of the side members to a rim of an automobile wheel.

1,425,102. **WALL STRUCTURE.** FREDERICK L. KEPPLER, New York, N. Y. Filed Mar. 11, 1918. Serial No. 221,650. 3 Claims. (Cl. 94—28.)



1. As a new article of manufacture a preassembled building unit, comprising a self-supporting concrete grid, and a plurality of translucent units secured edge to edge therein, and a channeled concrete band integral with the concrete grid surrounding the entire unit.

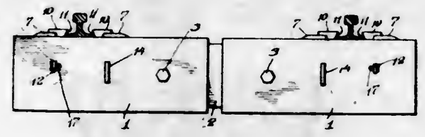
1,425,103. **MINING MACHINE.** HARRY A. KUHN, Pittsburgh, Pa. Filed May 18, 1914. Serial No. 839,825. 10 Claims. (Cl. 262—9.)



1. In apparatus for extracting coal, a frame supported on power-driven wheels, means to raise the forward end of said frame, an endless chain, means carried by said

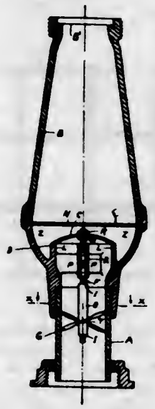
chain to form a crevicelike opening in the coal expanded along its lines of cleavage, means carried by said chain to dislodge the coal adjacent to said opening, and means carried by said chain to convey away the dislodged coal.

1,425,104. RAILROAD CROSSTIE. ELVIN LANDIS, Massillon, Ohio. Filed Apr. 13, 1922. Serial No. 552,248. 5 Claims. (Cl. 238—31.)



1. A cross tie formed of hollow end metallic sections and an intermediate wood section enclosed substantially entirely within said end sections with its ends out of contact with the end walls of said end sections, the end sections having upper walls the inner ends of which bear on the ends of the wood section and being provided with openings in the upper walls for the reception of rail securing wedges.

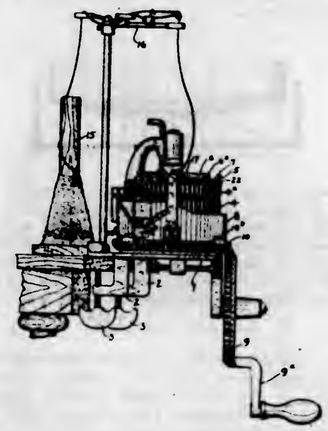
1,425,105. APPARATUS FOR REGULATING FLUID AND GAS PRESSURE BETWEEN THE GAS METER AND GAS CONSUMPTION. PROSPERO LAVARELLO FU GIUSEPPE, Genoa, Italy. Filed Mar. 6, 1918. Serial No. 220,887. 2 Claims. (Cl. 50—14.)



1. In a device of the character described, the combination of an inlet pipe, an outlet pipe in axial alinement with each other, a pair of valve seats in axial alinement with said pipes and serially disposed therein, a valve normally seated by gravity on the valve seat next to the inlet pipe, a shaft connected with said valve, and means on said shaft adapted to rotate said shaft upon exertion of pressure in axial direction against said means for causing axial displacement of the valve from one of said seats in direction towards the other seat.

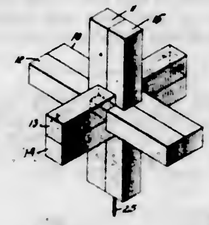
1,425,106. KNITTING MACHINE. MILTON LAVEEN, Chicago, Ill. Filed Dec. 15, 1921. Serial No. 522,508. 2 Claims. (Cl. 66—12.)

1. In a knitting machine of the type referred to, the combination with a needle cylinder, of a needle oscillator mounted to rotate around said cylinder, and a yarn carrier adjustably fixed on said oscillator, said carrier having an upper perforated guide for opening the latches of the vertical needles and provided with a lower plate for the



horizontal needles, said lower plate set back from the plane of the upper plate in order to clear the said vertical needles.

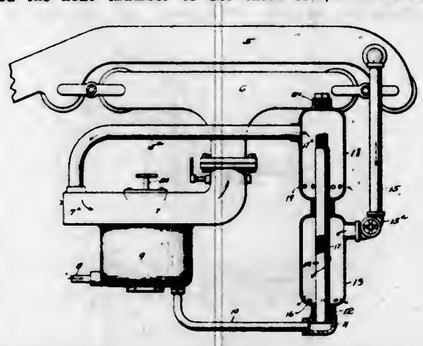
1,425,107. TOY. DAVID LEVINSON, New York, N. Y. Filed Mar. 30, 1921. Serial No. 456,863. 1 Claim. (Cl. 46—41.)



A building block toy, comprising three pairs of quadrangular prisms adapted to be interlocked, all of said prisms but one being provided with notches accommodating portions of the prisms, the members of each pair of prisms extending side by side and at right angles to the other pairs of prisms, the longitudinal axis of each prism pair intersecting the longitudinal axes of the other pairs, and a pin in the side of said notchless prism abutting against the juxtaposed face of its pair, said pin extending out of the side of the notchless prism, thereby forming a wedge to prevent accidental disengagement of said notchless prism from the remaining elements, when assembled, said pin projecting beyond one end of said notchless prism and constituting a spindle on which the assembled toy may be spun.

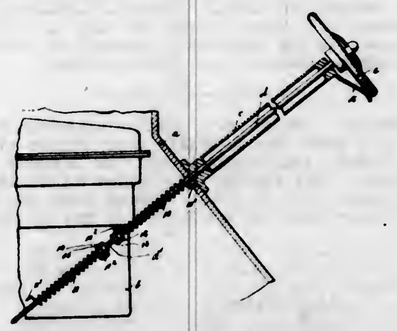
1,425,108. VAPORIZING ATTACHMENT FOR CARBURETORS. PURD J. LINCOLN, Birmingham, Ala., assignor to Gelders Manufacturing Company, Birmingham, Ala., a Corporation. Filed June 29, 1921. Serial No. 481,273. 5 Claims. (Cl. 48—107.)

1. The combination with a carburetor, of a vapor chamber and a heating chamber, a tube leading through the heating chamber and terminating in the vapor chamber, a connection between the lower portion of said tube and the float chamber of the carburetor, a connection



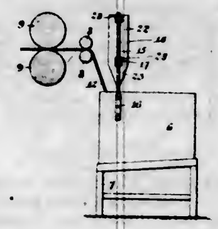
between the vapor chamber and the air intake portion of the carburetor and elements adapted to lift fuel by capillarity disposed in said tube.

1,425,109. COUNTERBALANCING DEVICE FOR STEERING WHEEL POSTS. PHILIPP LINK, Newark, N. J. Filed July 26, 1921. Serial No. 487,764. 3 Claims. (Cl. 74—33.)



1. In a steering wheel post for motor vehicles, oppositely acting counterbalancing springs mounted around said post and normally holding the post in a position corresponding to the straight position of the front wheels and means for the adjustment of the tension of said springs.

1,425,110. AUTOMATIC LUBRICATING DEVICE FOR ROLLING MILLS. HOWARD N. LITTLE and WALTER B. GORMELY, Lockport, N. Y. Filed May 7, 1921. Serial No. 467,731. 14 Claims. (Cl. 29—17.)



1. The combination with a rolling machine having a pair of rolling-rolls, of a support for a roll of sheet metal

having a portion thereof unrolled and passing between said rolling-rolls, a distributer in contact with the rolled and the unrolled portions of said metal, and means for feeding oil to said distributer.

1,425,111. ALLOY FOR USE IN ELECTRIC HEATING APPLIANCES. GEORGE HARRY LOFTS, Hobart, Tasmania, Australia. Filed Sept. 21, 1920. Serial No. 411,868. 1 Claim. (Cl. 75—1.)

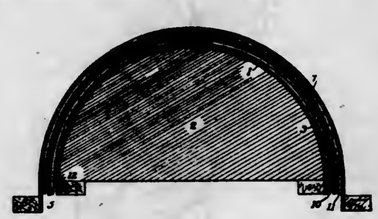
An alloy for the purposes indicated that is composed of an admixture of pure or almost pure zinc with cadmium in about the proportions of ninety-six (96%) per cent of zinc to four (4%) per cent of cadmium as herein explained.

1,425,112. CHAIN PUMP. RAMON LONG, New York, N. Y. Filed Oct. 23, 1919, Serial No. 332,779. Renewed Nov. 5, 1921. Serial No. 513,212. 9 Claims. (Cl. 103—6.)



1. The chain pump comprising an upper wheel and a cooperating continuous ladder type chain having one piece wire links formed with connecting body portions and with laterally projecting water carrying portions comprising a plurality of cross-pieces and cooperating substantially contacting side pieces, the corresponding cross-pieces being oppositely directed in alternate links.

1,425,113. PROCESS OF MANUFACTURING CURVED FORMS OF PLYWOOD OR FIBROUS COMPOSITIONS. MALCOLM LOUGHEAD, Santa Barbara, Calif., assignor of one-fourth to Allen H. Loughead, one-fourth to John K. Northrop, and one-fourth to Anthony Stadlman, all of Santa Barbara, Calif. Filed Aug. 12, 1919. Serial No. 317,025. 3 Claims. (Cl. 20—91.)

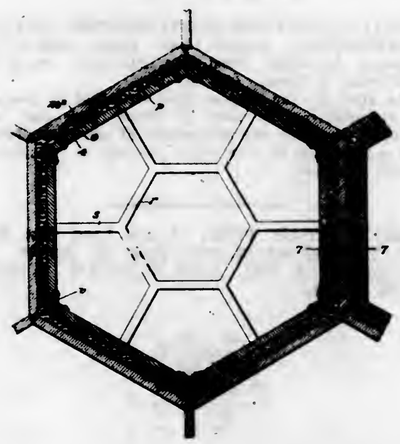


1. The process of manufacturing curved shells, which consists of erecting a primary layer by bending strips of stock to a curved form and securing the ends of the strips in place so that the layer becomes a unit; and then erecting superposed layers, each of strips of the stock, so that each layer is an independent and separate unit; then separating the unitary layers; and then adhesively securing the unitary layers one upon the other in complementary relation.

1,425,114. CONCRETE CONSTRUCTION. EDWARD SYDNEY LUARD, London, England. Filed Feb. 28, 1922. Serial No. 539,999. 7 Claims. (Cl. 61—46.)

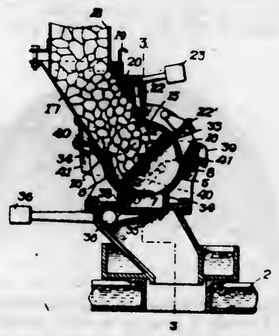
1. A cellular concrete structure comprising outer and inner polygonal shells erected about a common center

and having their sides associated so that the angles of an inner shell are located opposite the flats of an



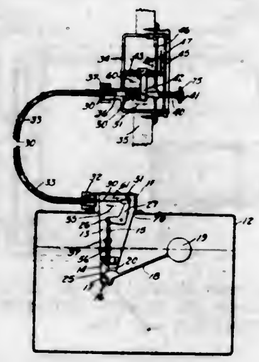
outer shell and support the latter, and a plastic filling between the said shells.

1,425,115. FEEDING MECHANISM FOR GAS PRODUCERS. CHARLES W. LUMMIS, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 10, 1918. Serial No. 249,268. 7 Claims. (Cl. 214—35.)



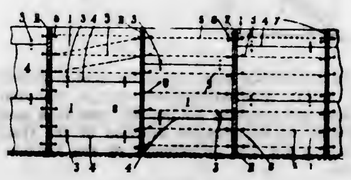
1. In a fuel feeding mechanism for gas producers, a movable charging member having an opening for the reception and discharge of fuel, a supporting and containing means for said member, providing a passage to the producer chamber for cooperation with said opening, and providing sealing surfaces on opposite sides of said passage of less width than said opening, whereby said passage is unsealed as said member moves into and out of discharging position, and means operable by the movement of said member for closing said passage as said member moves into and out of discharging position.

1,425,116. LIQUID-LEVEL INDICATOR. MATTIAS O. LUNDIN, Los Angeles, Calif. Filed Aug. 28, 1921. Serial No. 494,503. 10 Claims. (Cl. 73—82.)



1. In a liquid level indicator of the class described, the combination of: a float actuated cam; a cam follower to cooperate with said cam; means for maintaining said follower in a position against said cam; an indicating device; and link mechanism to transmit the movement of said cam follower to said indicating device.

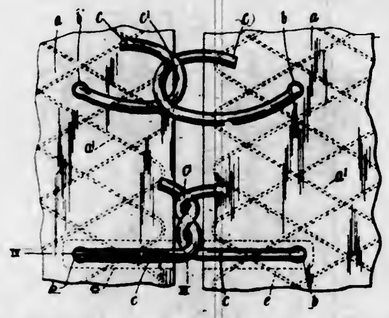
1,425,117. MEANS FOR THE CONSTRUCTION OF CONCRETE SLABS, WALLS, AND OTHER STRUCTURES. FRANCIS GASCOIGNE LYNDE, Belvedere, England. Filed July 15, 1919. Serial No. 311,049. 4 Claims. (Cl. 72—106.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. Concrete slab walls and other structures comprising slabs, rods therein, looped ends on said rods, vertical rods passing through said looped ends, and extending between the junctions of the slabs, grooves in the horizontal edges of said slabs, dowels passing through said horizontal edges and engaging said slabs, and additional metal securing means at the vertical junctions of the slabs the slabs being arranged so that the horizontal junctions in any vertical series of slabs are in staggered relation to the junctions in the adjoining vertical series of slabs.

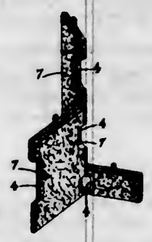
1,425,118. CONCRETE SLAB FOR WALLS OR THE LIKE. FRANCIS GASCOIGNE LYNDE, Belvedere, England. Filed July 15, 1919. Serial No. 311,050. 3 Claims. (Cl. 72—106.)

1. Concrete slabs having metallic reinforcement embedded therein, transverse passages which traverse the concrete and the reinforcement to house connecting wires, grooves in the faces of the slabs to receive the wires,



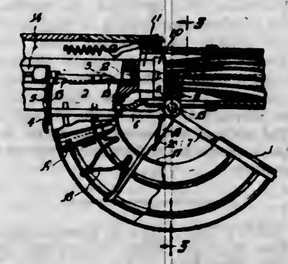
and depressions in the adjacent ends of the grooves in adjacent slabs to house the knotted or twisted ends of the wires.

1,425,119. CONCRETE SLAB FOR THE ERECTION OF CELLULAR STRUCTURES. FRANCIS GASCOIGNE LYNDE, Belvedere, England. Filed July 15, 1919. Serial No. 311,051. 4 Claims. (Cl. 72—106.)



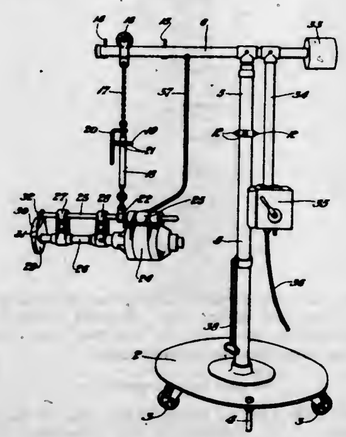
1. An hexagonal cellular structure comprising concrete or like slabs, oppositely bevelled vertical edges on said slabs the vertical edges of one slab when arranged in juxtaposition to the vertical edges of another slab forming with said vertical edges a recess to receive the vertical edges of a third slab, and a recess in the vertical edges of each slab.

1,425,120. MAGAZINE FOR MACHINE GUNS. JOHN CHARLES REGINALD MCCAUDDEN, Hurstville, near Sydney, New South Wales, Australia. Original application filed June 19, 1920, Serial No. 390,153. Divided and this application filed June 4, 1921. Serial No. 475,070. 3 Claims. (Cl. 89—33.)



1. A machine gune magazine comprising a segmental box casing adapted to carry a large number of loose tapered cartridges in staggered order and to reciprocate with the gun barrel, a slot in the inner curved face of said casing, an externally pivoted feed arm extending through said slot, a spring controlling said feed arm, a platform carried by said feed arm, carrier arms adapted to support said casing, and means on said carrier arms for rapidly detaching the magazine from the gun.

1,425,121. GRINDER. GEORGE H. MCFEATERS, Johnstown, Pa. Filed Jan. 31, 1922. Serial No. 532,990. 3 Claims. (Cl. 51—170.)



1. A portable grinder comprising in combination, a wheeled base, a vertical standard projecting upwardly from said base, a horizontal supporting beam pivotally mounted intermediate its ends on said standard, a trolley member mounted for horizontal movement on said beam, a flexible supporting element suspended from said trolley, a collar member secured on the lower end of said element and adjustably secured to a horizontally disposed supporting rod, a motor suspended from adjacent one end of said rod, a bearing sleeve projecting from said motor and suspended from said rod, a motor driven shaft within said sleeve, a grinding wheel on the free end of said shaft, means for supplying electric power to said motor, and means for counterbalancing said motor, grinding wheel and associated parts.

1,425,122. BROACHING AND SURFACE FINISHING OF HOLES OR THE LIKE. JAMES MCKECHNIE and THOMAS FENDER, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Nov. 7, 1919. Serial No. 336,428. 1 Claim. (Cl. 90—33.)

A method of opening and burnishing comparatively long holes or the like (i. e. holes from two to six feet long or more) as an alternative to the usual method of boring and surface lapping, which consists in using in succession a series of broaches which are relatively short compared with the length of the hole which is to be bored, the first of the series being passed entirely through the hole so as to remove or deal with a certain proportion of the total amount of the metal, the second broach of the series being of such dimensions as to remove or deal with a further proportion of the metal and having its smallest diameter about equal to the largest diameter of the first broach used, the third broach of the series being of such dimensions as to remove or deal with a further proportion of the metal and having its smallest diameter about equal to the largest diameter of the broach previously used, and so on with any further broaches of the series that may be used until the hole or the like has

been increased to the desired dimensions, and thereafter in using a broach having a comparatively large number of teeth which is adapted to operate as a burnisher, the di-



ameter of the most forward tooth being of slightly less diameter than that of the most rearward tooth of the broach previously used and the last few teeth thereof being of the same diameter as each other.

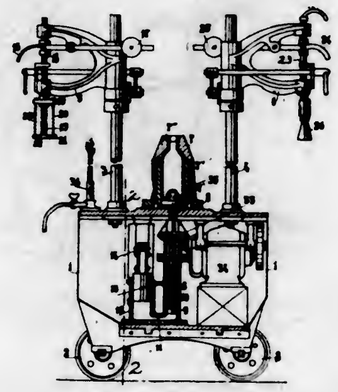
1,425,123. IMPULSE TRANSMITTER. RAY H. MANSON, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 29, 1919. Serial No. 320,677. 4 Claims. (Cl. 179—90.)



1. In an impulse transmitting device, a circular frame having a central opening, a numeral plate associated therewith, a shaft having a longitudinal opening, a dial secured to said shaft arranged to be manually rotated in a clockwise direction, a spring for rotating said shaft and dial in the reverse direction, a spring assembly supported by said frame and provided with sets of flat contact springs lying in parallel planes, means operative during the reverse movement of said dial for actuating one of said sets of springs and a rod provided with a button on one end and insulation on the other, said rod being movable through the opening in said shaft for actuating a second set of springs.

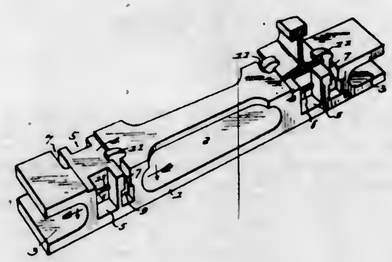
1,425,124. PRODUCTION OF BOTTLES OR OTHER VESSELS AND APPARATUS THEREFOR. MAURICE MATHY, Liege, Belgium. Filed June 26, 1919. Serial No. 307,027. 2 Claims. (Cl. 49—11.)

2. A machine for the mechanical manufacture of bottles or other vessels, comprising a frame, a mould fixed on said frame, means for raising the blank inside the mould until it is flush with the upper part of the neck, a pair of movable brackets mounted on the aforesaid frame, a tool supported by one bracket for making a hole in the blank, a compressed air supply pipe supported by the other bracket and terminating in a socket provided with a passage, a tube terminating in a nossle and moving in said passage, and valves arranged on said tube for closing said passage when the nozzle hangs freely and for supplying the pipe with air when said tube is raised within



the socket, said brackets being arranged to permit said tool and said air supplying pipe and its associated tube to be brought one after the other over the mould.

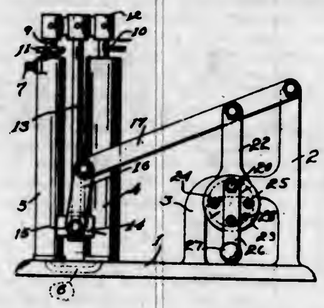
1,425,125. RAIL TIE AND FASTENER. PHILIP G. MOOD, Dugger, Ind. Filed May 17, 1922. Serial No. 561,653. 2 Claims. (Cl. 238—30.)



1. A combined tie and rail fastener comprising a tie body, each end thereof having a depression on its upper face for the reception of the base of the rail, and provided with diagonal opposite perpendicular recesses, the lower ends of said recesses being enlarged, rail holding elements engaging said recesses and having enlargements at their lower ends to engage the enlarged lower ends of the recesses to secure the elements against displacement upwardly, the upper ends of the elements having heads to overlie the base of the rail, and transversely disposed keys engaged through the end of the tie and across the lower enlarged ends of the recesses to retain the enlargements of the elements in position and prevent their outward displacement.

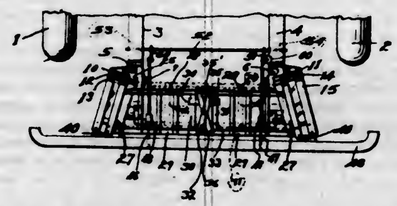
1,425,126. TIRE PUMP. MAX H. MOSES, San Francisco, Calif. Filed Mar. 29, 1921. Serial No. 456,508. 3 Claims. (Cl. 230—27.)

1. A tire pump comprising a base, air cylinders supported thereby, a post at the opposite end of the base from the air cylinders, a lever pivotally mounted on said post and connected with the air pump, a revoluble handle



and an eccentric link operated by the handle for delivering air from the pump.

1,425,127. MOTOR-VEHICLE BUMPER AND FENDER. MAX H. MOSES, San Francisco, Calif. Filed May 16, 1921. Serial No. 469,851. 3 Claims. (Cl. 293—24.)



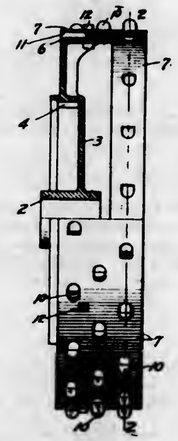
1. A combined bumper and fender for motor vehicles comprising a pair of fixed slides, movable slides supported thereby, a grill work connecting the movable slides, a bumper carried by the movable slides, means to support the movable slides and grill work carried thereby over the fixed slides and means to release the movable slides at will to drop them toward the ground.

1,425,128. METHOD OF MAKING WATCH-CHAIN SWIVELS. FREDERICK W. NITTEL, Attleboro, Mass., assignor to M. S. Company, Attleboro, Mass. Filed May 5, 1921. Serial No. 467,117. 2 Claims. (Cl. 59—9.)



1. The method of making watch chain swivels which consists in first forming a bow with a bottom end extending thereacross, then in swaging the said bottom end to form a pair of spaced depending attenuated webs, then in shaping said webs to form an anchoring ear, a spring engaging teat and a pivot ear the latter perforated, then in attaching the bow to the swivel head with the teat engaged with the spring, the pivot ear with the pivot pin of the swivel and the anchoring ear rigidly attached to the head, and finally in severing the bow to form a tongue movable about the pivot pin and tensioned by said spring.

1,425,129. WHEEL. SPENCER H. PHELPS, Minneapolis, Minn., assignor, by mesne assignments, to Beeman Tractor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 4, 1919. Serial No. 315,175. 3 Claims. (Cl. 301—40.)

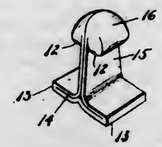


1. The combination, with a wheel rim, of an auxiliary rim comprising a metallic band arranged to encircle the wheel rim and seated thereon and of greater width than the wheel rim to increase the width of the normal tread thereof, said auxiliary rim having a series of lugs pressed outwardly therefrom, said lugs being positioned to enter the soil during the revolution of the wheel and increase the traction thereof and said auxiliary rim having means for securing it to the main rim of the wheel.

1,425,130. MANUFACTURE OF VINYL HALIDES. HERMANN PLAUSON, Hamburg, Germany. Filed Jan. 13, 1921. Serial No. 437,109. 5 Claims. (Cl. 260—166.)

1. The process of producing vinyl polymerisation products which comprises heating under pressure a gas of the acetylene series with a body capable of forming a vinyl ester therewith, and continuing the reaction until a solid polymerisation product is obtained, without preliminary isolation of the vinyl ester.

1,425,131. BUTTON. JAMES E. POTTER, Providence, R. I. Filed Feb. 1, 1922. Serial No. 533,410. 1 Claim. (Cl. 24—101.)



A button formed of sheet stock folded to provide base and shank portions of double thickness, the free ends of the shank portions being enlarged providing a hollow tapering head with laterally-projecting shoulders on its under side.

1,425,132. MATRIX CLEANER. RUSSELL F. REED, San Francisco, Calif. Filed Oct. 7, 1919. Serial No. 329,097. 4 Claims. (Cl. 199—62.)

1. A matrix cleaner comprising a frame having a back plate and parallel side fingers, guide ribs formed along

said fingers, a buffing block of plastic material adapted to engage said guide ribs and to be seated between the frame fingers, a pressure plate disposed at the rear of



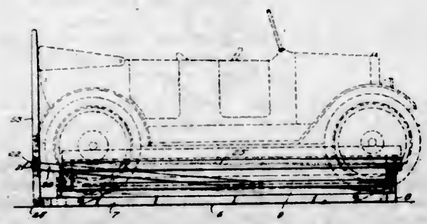
said block, and adjusting members carried by the frame and acting against the pressure plate to adjust the buffer block in relation to the frame.

1,425,133. STRAIGHT-LINE GUIDE FOR THE HANDLES OF COMPASSES. AUGUST RENZELBERG, Nuremberg, Germany, assignor to the Firm Reisszeugfabrik Eichmuller & Co., Nuremberg, Germany. Filed Oct. 15, 1921. Serial No. 508,047. 4 Claims. (Cl. 33—157.)



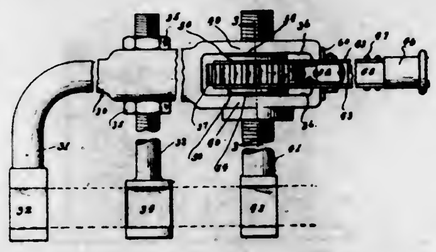
1. A straight-line guide for the handle of compasses, comprising, in combination, disk-shaped heads forming the rotatory ends of the legs of the compasses; a yoke forming the bearing for said heads; a hollow handle forming an elongation of said yoke and a rotary pin in said handle; the lower end of said pin being in frictional contact with said two disk-shaped heads at their circumference, for the purpose set forth.

1,425,134. AUTOMOBILE JACK. SAMUEL J. RICH, Chicago, Ill. Filed Jan. 3, 1921. Serial No. 434,665. 4 Claims. (Cl. 254—91.)



1. A jack for vehicles comprising a base, a single vertically movable frame mounted on said base, manually operable means for raising said frame with the vehicles thereon, and vertically adjustable members carried by the frame, and adapted to engage with the vehicle to be raised.

1,425,135. RAIL BENDER. HUGH ROGERS, Sullivan, Ind. Filed Dec. 1, 1920. Serial No. 427,590. 1 Claim. (Cl. 153—38.)

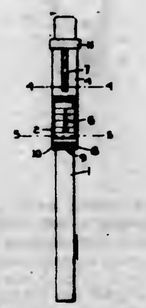


In a rail bender having an L-shaped beam with rail-engaging jaws formed at the end of its short arm, a transverse aperture and circular holes communicating therewith adjacent the end of its long arm, a connecting wall being formed at its extreme end, and the intermediate portion of said long arm being provided with an opening running parallel with said holes and with said short arm, the combination with a pair of rail-gripping members having threaded shanks, one of said members engaging in said opening, and nuts for adjustably securing said first member therein, the second member engaging in said holes, a bifurcated operating handle fitting with its prongs in said aperture and around said second member, an internally threaded ratchet wheel engaging with said second member between said prongs, a pawl hinged on said handle adapted to engage with said ratchet wheel, and roller bearings inserted between the internal surface of said aperture and said prongs on the handle, and an arcuate guard plate covering the teeth of said ratchet wheel protruding on one side of said aperture, said guard plate being rigidly secured to said connecting wall and to the body of said L-shaped beam.

1,425,136. MOTOR FUEL. FRIEDRICH WILLIAM ROHRS, Rosedale, Md. Filed Feb. 28, 1921. Serial No. 447,248. 2 Claims. (Cl. 44—9.)

2. A motor fuel consisting of substantially 3% acetone, 9% benzol and 88% petroleum distillate.

1,425,137. PERPETUAL CALENDAR. JOHN J. ROUND, Wakefield, Mass. Filed Dec. 9, 1921. Serial No. 521,095. 6 Claims. (Cl. 40—108.)



1. A perpetual calendar comprising three co-axial relatively adjustable cylinders bearing respectively a weekly table displaying the names of the days of the week in a predetermined order, a daily table having numerals

indicating the days of the month arranged consecutively in rows and columns in one of which the numerals progressively increase by seven, and a monthly table displaying the names of the months of the year in a predetermined sequence, adjustable interengaging members respectively upon the monthly table bearing cylinder and one of the other table bearing cylinders such that by establishing for a series of months a fixed setting between the cylinder bearing the monthly table and said interengaged table bearing cylinder a correct calendar will be displayed by so adjusting the third table bearing cylinder that the numeral "one" is placed opposite the name of the day of the week corresponding to the name of the first day of the selected month.

1,425,138. TOILET ARTICLE. WILLIAM HERBERT ROYSTONE, New York, N. Y. Filed Dec. 8, 1921. Serial No. 520,793. 3 Claims. (Cl. 132—82.)



1. In a toilet article, a frame for carrying two compacts of face powder, rouge or the like, back-to-back in abutting relation, said frame comprising a ring or sleeve cooperable with the compacts to surround and support the periphery thereof, and a cover for each end of the ring or sleeve.

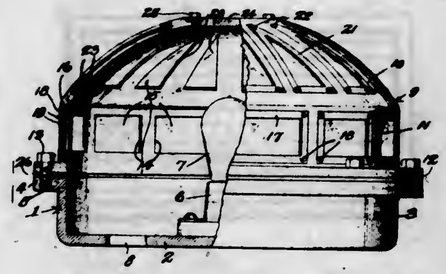
1,425,139. SAFETY LIGHT. WILLIAM W. RUMSEY, Milwaukee, Wis. Filed Feb. 28, 1921. Serial No. 448,235. 14 Claims. (Cl. 240—1.)



1. In a roadway signal, the combination of a substantially circular base to be imbedded in a roadway, a substantially concavo-convex transparent dome supported upon said casing, a lighting device projecting into the cavity of said dome and a relatively heavy perforated protector of substantially the same contour of and embracing said dome, said protector being secured to the casing and engaging the peripheral margin of the dome for fixedly retaining the same upon said casing.

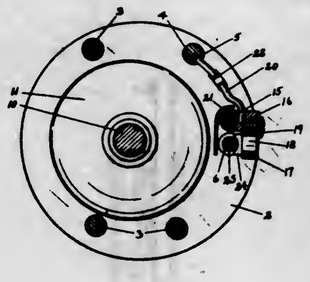
1,425,140. SAFETY LIGHT. WILLIAM W. RUMSEY, Milwaukee, Wis. Filed Apr. 16, 1921. Serial No. 461,834. 5 Claims. (Cl. 240—1.)

1. In a traffic indicator, a hollow body member provided with a domed top portion, said domed top being provided with a plurality of windows and an opening adapted to serve as a hand-hole, said opening being relatively smaller than said domed top, said body being provided also with an opening in its bottom wall for receiving electrical conductors, a hand-hole cover plate,



means connecting the cover plate with the domed top for detachably securing the former to the latter, and a light mounted within said body member.

1,425,141. FISHING REEL. SAMUEL G. RUSSELL, Kalamazoo, Mich., assignor to The Shakespeare Company, Kalamazoo, Mich. Filed Apr. 21, 1921. Serial No. 463,322. 9 Claims. (Cl. 242—84.4.)

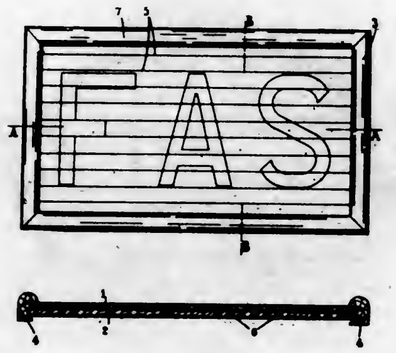


9. In a fishing reel, the combination of a frame, a spool, a traversing shaft, a carriage slide rod disposed adjacent and parallel to said traversing shaft, a line guide carriage slidable on said rod and provided with a pawl socket, a pawl disposed in said socket to coact with said shaft, said carriage being entirely independent of said shaft except as connected thereto by said pawl, a housing for said traversing shaft and carriage slide rod arranged at the inner side thereof and having a top portion overhanging the same, and a line guide member on said carriage projecting upwardly at the front of said housing.

1,425,142. SIGN AND ADVERTISING DEVICE. THOMAS SAFF, London, England. Filed Dec. 10, 1921. Serial No. 521,454. 8 Claims. (Cl. 40—125.)

8. In a sign adapted for use without special means for illumination, the combination of a sheet of glass provided with ribs to refract light from a casual source, a sheet of glass adapted for substantial surface contact

with the first sheet of glass and provided with ribs to refract light, a reflecting surface, and means to ren-



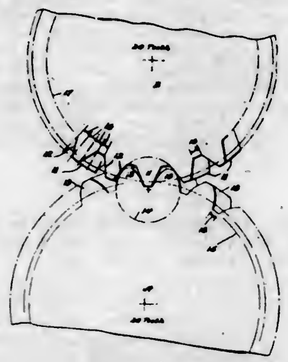
der a portion of the ribbed surface of the sheet of glass opaque to display a design.

1,425,143. MEANS FOR INJECTING LIQUID OR GASEOUS MATTER UNDER PRESSURE INTO MEAT OR THE LIKE. GEORG SCHEIB, Berlin, Germany. Filed Aug. 29, 1921. Serial No. 496,788. 3 Claims. (Cl. 99—2.)



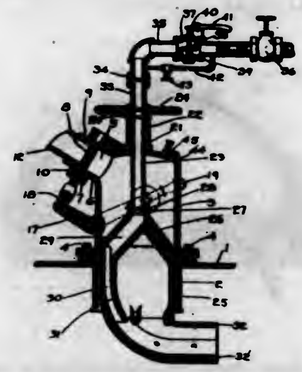
3. An instrument for injecting a preserving fluid into meat or the like, comprising in combination a bipartite hollow needle having a plurality of lateral apertures in its lower portion; an inverted conical member affixed to the upper end of said portion and serving as connecting means for the two portions needle; a washer arranged upon the other needle portion; and a nut also arranged upon said other needle portion and adapted to be turned down and up upon it, as set forth.

1,425,144. TOOTHED GEARING. HENRY J. SCHMICK, Williamsport, Pa. Filed June 30, 1921. Serial No. 481,561. 8 Claims. (Cl. 74—41.)



1. A gear having each pair of adjacent teeth formed with working surfaces on their opposite faces conforming to arcs of circles with their centers on lines bisecting the spaces between said teeth.

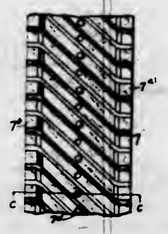
1,425,145. FUEL DISTRIBUTOR. HARRY F. SMITH, Lexington, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 25, 1918. Serial No. 219,069. 12 Claims. (Cl. 110—104.)



4. In a device for distributing fuel in a combustion chamber; fuel distributing means rotatably mounted and terminating in a laterally directed spout located within the chamber; said means being adapted for positioning with the spout pointing in any desired radial direction; and means for forcing fuel from the spout to any desired distance.

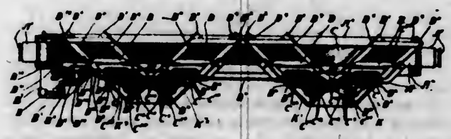
7. In a device for distributing fuel in a gas producer; fuel distributing means, said means being rotatably mounted and extending within said chamber; fluid pressure means associated with the distributing means for controlling the distribution of fuel therefrom; and means associated with the distributing means and the fluid pressure means, for continuously supplying pressure fluid to the distributing means.

1,425,146. RADIATOR CORE. CHARLES F. SPERY and JOSEPH H. SPERY, Chicago, Ill. Filed May 26, 1921. Serial No. 472,656. 2 Claims. (Cl. 257—130.)



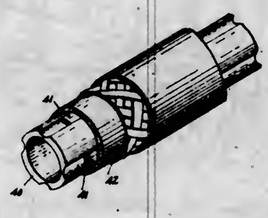
1. In a radiator core, a series of water channels, and a series of intermediate spacers having semi-hexagonal bands abutting similar bands of said channels and made with depressed diagonal corrugations extending from the front bands upwardly, said spacers having locating buttons for registration with similar buttons of the water channels, said buttons centrally located in each diagonal corrugation.

1,425,147. MACHINE FOR CONSTRUCTING A LAMINATED COHESIVE INTERLAID FABRIC. LAWRENCE A. SUBERS, Lakewood, and ERNEST MOSMAN, Cleveland, Ohio; said Mosman assignor to said Subers. Filed Dec. 13, 1920. Serial No. 430,445. 15 Claims. (Cl. 154—1.)



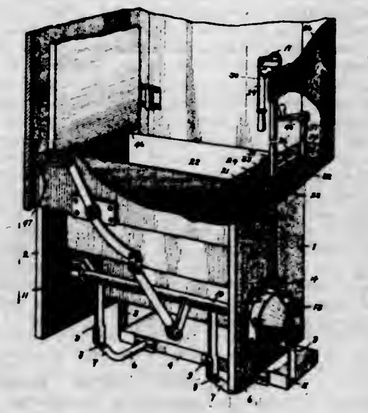
1. In a machine for constructing a laminated cohesive interlaid fabric, the combination of a table, a plurality of band laying devices adapted to interlay bands upon said table in predetermined angular spaced relation, and means for compressing the interlaid bands to form the fabric.

1,425,148. HOSE OF PREDETERMINED ACTION UNDER PRESSURE. LAWRENCE A. SUBERS, Lakewood, Ohio. Filed June 5, 1920. Serial No. 386,758. Renewed Jan. 10, 1922. Serial No. 528,136. 10 Claims. (Cl. 137—90.)



1. A hose comprising layers of fabric composed of series of laminated interwound cohesive bands, the bands of the several layers being of practically the same length per unit length of hose.

1,425,149. AUXILIARY CAR STEP. PETER SWANSON and AXEL CARLSON, Ely, Minn. Filed Mar. 27, 1922. Serial No. 546,969. 4 Claims. (Cl. 105—430.)



1. Means for controlling the trap door and auxiliary step of a railway car platform, said auxiliary step having a horizontally disposed shaft associated therewith, comprising a vertically disposed shaft extending upwardly above the platform of the car and operatively connected with said horizontal shaft, means cooperatively connecting the horizontal shaft and the trap door, means at the upper end of the vertical shaft for manually operating same, and locking means for the trap door directly controlled from the vertical shaft.

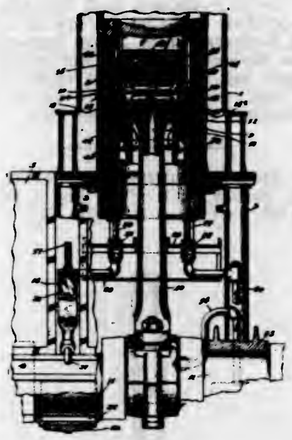
1,425,150. STYLOGRAPHIC FOUNTAIN PEN. RUDOLPH ULLRICH, Newark, N. J. Filed July 1, 1921. Serial No. 481,745. 2 Claims. (Cl. 120—44.)



2. A stylographic fountain pen comprising a barrel, a head section fitting therein and having a bore extending therethrough, the remote or upper section of said bore of restricted size and the intermediate portion enlarged to form an annular air chamber with a shoulder at one extremity thereof, the lower portion of the bore of the head counter-bored and internally threaded, the

lowermost extremity of the bore further enlarged and forming an air and ink inlet conduit, a stylus tip provided with an external thread thereon engaging the threaded portion of said bore and forming a cylindrical projection at the rear extremity thereof fitting within the intermediate and enlarged portion of said bore and abutting against the said shoulder, said reduced cylindrical projection and adjacent walls of the bore forming an annular air chamber, said tip provided with an open-ended chamber communicating with the upper and reduced extremity of the bore of the head section and forming in connection therewith a weight-receiving chamber, an end stop extending across but not closing the inner extremity of the bore of the head section, said weight-receiving chamber of fixed and non-adjustable size, and a weight located within said weight-receiving chamber and limited in end play by the fixed and predetermined size of said weight-receiving chamber, and a stylus needle carried by said weight and projecting through the stylus tip, an air inlet duct communicating with said annular air chamber, and a second duct out of alinement with the aforementioned duct and communicating with the chamber of the stylus tip.

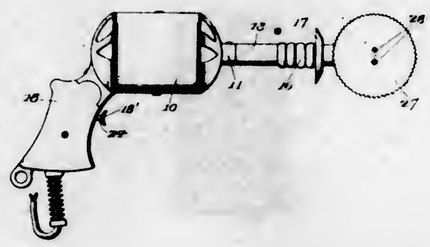
1,425,151. ENGINE-COOLING SYSTEM. HUBERT C. VESHEY, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 10, 1917. Serial No. 147,781. 13 Claims. (Cl. 123—176.)



13. In an internal combustion engine, the combination with a piston containing a cooling chamber, means for circulating cooling fluid, a piston pin mounted in the piston and having within it a circuitous passage one end of which is in communication with the cooling fluid circulating means and the other with the piston cooling chamber, and means for compelling substantially all the cooling fluid for the piston to pass through the circuitous passage in the piston pin.

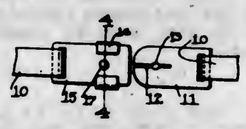
1,425,152. ELECTRICALLY-OPERATED SAW. BURR D. VIERS, Red Lodge, Mont. Filed Feb. 28, 1921. Serial No. 447,004. 1 Claim. (Cl. 143—43.)

In an electrically operated saw, a pistol frame supporting a motor and a drive shaft driven by the motor, a frame on the outer end of the pistol frame, a transverse shaft mounted in the last-named frame and carrying a saw on one end thereof, a transverse bar carried by the same frame and projecting from one side of the frame, an angularly extending arm mounted for longitudinal slidable adjustment on the bar and carrying rollers rotatable on vertical axes, rollers rotatable on horizontal axes



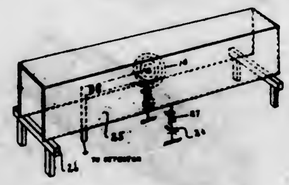
on the said last-named frame, and means for controlling the circuit to the motor.

1,425,153. FRONT FASTENING FOR SOFT COLLARS. HENRY J. VIGNEAULT, Worcester, Mass., assignor of one-half to George N. Vigneault, Worcester, Mass. Filed Mar. 29, 1921. Serial No. 456,527. 3 Claims. (Cl. 24—230.)



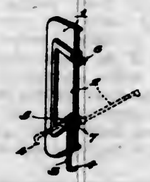
1. As an article of manufacture, a fastening for a soft collar or the like comprising two sheet metal plates, one having a longitudinal slot enlarged at a distance from its end and the other having an integral projection for engaging in said enlargement, and integral side ears on one plate in position for guiding the other.

1,425,154. APPARATUS FOR RECEIVING RADIO-SIGNALS. ROY A. WEAGANT, New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Dec. 13, 1917. Serial No. 206,883. 2 Claims. (Cl. 250—20.)



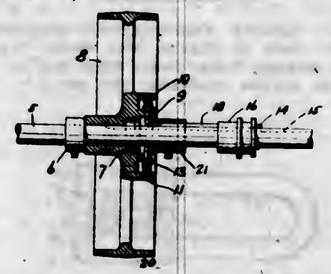
1. In a radio signalling apparatus, the combination with an antenna of an open ended inverted trough-shaped screen for protecting the collector from electromagnetic waves moving vertically downward and along a given horizontal line in either direction.

1,425,155. DETACHABLE SHOE BUCKLE. WILLIAM WHITE, Plainville, Mass. Filed May 5, 1921. Serial No. 466,919. 3 Claims. (Cl. 2—167.)



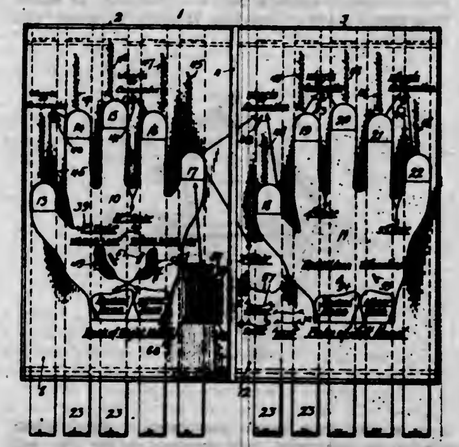
2. In a shoe buckle, an open frame, a member in the frame, means borne by the member to hingedly connect same to the frame and to grip the slipper between same and the frame, and a fastening to connect the member to the frame.

1,425,156. CLUTCH. HARRY J. WIDMAIER, Philadelphia, Pa. Filed Oct. 5, 1920. Serial No. 414,776. 7 Claims. (Cl. 192—67.)



1. A clutch element having a plurality of radially disposed spring-pressed pins, a driven shaft, a fixed member on each side of said pins secured to the shaft, there being a groove between said members in which said pins are adapted to travel when the clutch is disengaged, and a movable member arranged to be moved across said groove into driving engagement with said pins and both fixed members.

1,425,157. DEVICE FOR STUDYING FINGER PRINTS AND THEIR CLASSIFICATION. GRANT WILLIAMS, Patchogue, N. Y. Filed Jan. 24, 1922. Serial No. 531,456. 8 Claims. (Cl. 35—12.)



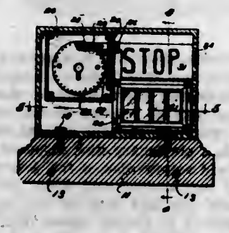
1. A device of the class described comprising a chart having thereon the representations of the human hands and movable devices for producing in association with said chart, various combinations representing finger print patterns.

1,425,158. SANITARY MASSAGE PAD. CHARLES WOLFSOHN, Boston, Mass. Filed May 27, 1921. Serial No. 473,083. 6 Claims. (Cl. 128—67.)



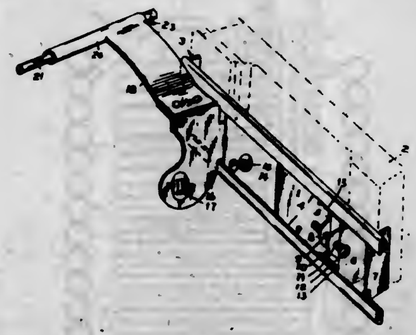
1. A massage pad comprising a piece of non-elastic sheet material folded to form a circular member, one face thereof being uninterrupted, the opposite face constituting a flat annular rim and a flexible band surrounding said rim and enclosed between said faces whereby said pad may be detachably positioned upon a rotary member.

1,425,159. THEFT SIGNAL FOR MOTOR VEHICLES. LUDWIG R. ZEPKA, Cleveland, Ohio. Filed July 21, 1921. Serial No. 486,623. 4 Claims. (Cl. 40—66.)



1. The combination with a tiltable motor vehicle wind shield, of a signal casing mounted upon the wind shield frame and including a handle adapted to be grasped for tilting the wind shield, and signaling means within said casing operable for displaying a signal visible through the wind shield.

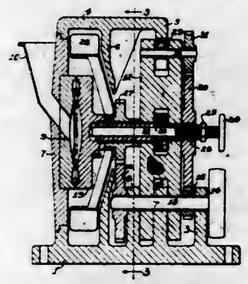
1,425,160. COMBINATION BLIND AND CURTAIN SUPPORT. EMIL ZWAHLEN, North Braddock, Pa. Filed May 11, 1921. Serial No. 468,464. 4 Claims. (Cl. 156—24.)



8. A fixture for the purpose set forth comprising a body portion having a flange at one end and further formed with a pair of grooved guide members, each of said guide members extending in the same plane throughout and further extending beyond the other end of the body portion, a flanged coupling plate slidably mounted in the extended portion of each of the said guide members, a coupling screw for adjustably connecting the said

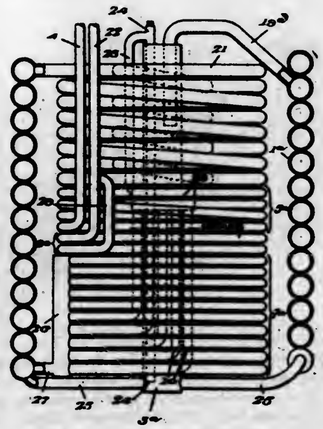
plate to the body portion, a shiftable supporting plate mounted in the guide members against the body portion, an arm connected with the supporting plate and provided with a barrel, and a curtain pole bracket adjustably mounted in said barrel.

1,425,161. GRINDING MILL. MARCUS O. ANTHONY, New York, N. Y., assignor to Mortimer C. Rosenfeld, Cleveland, Ohio. Filed Oct. 28, 1919. Serial No. 333,876. 2 Claims. (Cl. 83—10.)



1. A grinding mill comprising a base, a driving shaft rotatably supported on said base, an upright pivotally mounted on said driving shaft, a driven shaft journaled in said upright in parallel relation to said driving shaft, a grinding disk mounted on said driving shaft and rotatable therewith, a stationary disk disposed in operative relationship to said rotary disk, a fan journaled on said driven shaft and surrounding said disks, driving connections between said fan and said driving shaft whereby said fan is driven at a greater speed than said rotary disk, means disposed adjacent the upper end of said upright for oscillating said upright and driven shaft about said driving shaft, and driving connections between said shafts and said oscillating means.

1,425,162. WATER-TUBE BOILER. HARTLEY O. BAKER, Pueblo, Colo., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed Mar. 29, 1919. Serial No. 286,002. 4 Claims. (Cl. 122—245.)

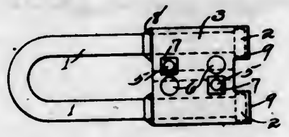


1. A boiler embodying a vertical drum, water heating and steam generating coils surrounding the lower portion of the drum, steam heating coils surrounding the upper portion of the drum, tubing surrounding said coils and constituting a lower water reserve coil and an upper steam reserve coil, the lower portion of the water reserve coil, drum and water and steam generating coils being connected for the flow of water therebetween, the discharge terminals of the steam generating coils being extended upwardly above said steam generating coils and connected to the drum for the flow of steam from said coils into the drum above said steam generating coils, and the steam heating and steam reserve coils being connected one to the other and to the upper portion of the drum.

1,425,163. ELECTRIC STORAGE BATTERY. HANS BARDT, Santiago, Chile, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile, a Corporation of Chile. Filed Sept. 17, 1921. Serial No. 501,421. 3 Claims. (Cl. 204—29.)

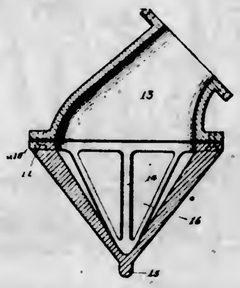
2. An electrolyte for storage batteries which consists of a solution of perchlorate of lead.

1,425,164. SAFETY COMBINATION CONNECTION CLAMP. FRED H. BARNEY, Fort Worth, Tex., and DON S. BOWERS, Tulsa, Okla. Filed Nov. 11, 1920. Serial No. 423,344. 3 Claims. (Cl. 287—1.)



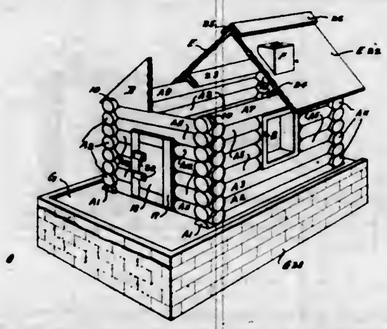
2. Safety rod line connections comprising a U-bolt having heads on the ends of the bolt and upset members formed on the U-bolt and spaced from the ends thereof and clamps engaging the U-bolt members between said heads and said up-set members and having extension hoods covering said heads.

1,425,165. SUCTION NOZZLE. WILLIAM H. K. BENNETT, Chicago, Ill., assignor to American Manganese Steel Company, Augusta, Me., a Corporation of Maine. Filed Sept. 22, 1920. Serial No. 412,053. 5 Claims. (Cl. 37—45.)



1. A suction line nozzle comprising a substantially conical shape body with inlet openings in the side wall thereof and an outlet opening through the base, and a digging point formed by the apex of the body.

1,425,166. TOY-HOUSE CONSTRUCTION. ANDREW H. BERGMANN, New York, N. Y. Filed Jan. 31, 1921. Serial No. 441,842. 5 Claims. (Cl. 46—35.)



1. An article of the character described comprising intersecting members disposed in vertically offset relation, being arranged alternatingly in longitudinal and transverse directions, and a joint at the intersection of said members including a recess formed across each of the latter in one face thereof and adapted to receive the unrecessed portion of an alternate member, said recess having a notch and a tenon, the arrangement being such that the tenon of one member engages the notch in another member.

1,425,167. MAIL DELIVERY AND RECEIVING DEVICE. CHARLES L. BIGGS, Meredian, Tenn. Filed Dec. 24, 1920. Serial No. 432,894. 9 Claims. (Cl. 258—10.)



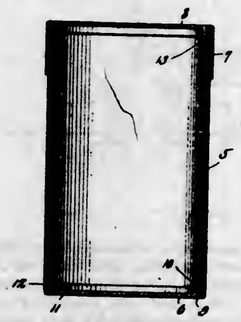
1. A mechanism of the character described comprising a track, a carrier movable over said track, a bag supporting means on said carrier, a bag receiving means on said carrier, a railway car movable parallel with the carrier, and means projecting from said car for supporting a bag to be received by the bag receiving means on the carrier and to remove a bag supported on said carrier for delivery to the railway car.

1,425,168. PAPER CONTAINER. HENRY S. BREWINGTON, Baltimore, Md. Filed Apr. 26, 1921. Serial No. 464,765. 1 Claim. (Cl. 229—5.7.)



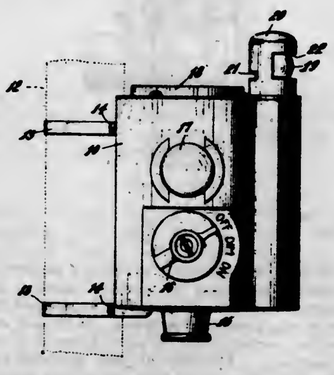
A paper receptacle comprising a cylindrical body, an end closure for said body comprising a disk inside the same and having its edge in contact with the inner surface of the body, and a sealing and securing member for the disk comprising a rigid metallic ring extending over and secured to the edge of the body, and having an inner portion extending into the body in intimate contact with its inner surface, said inner portion terminating in an annular flange which engages the disk, and the inner portion and its flange covering the joint between the edge of the disk and the body of the receptacle, the disk having an annular shoulder concentric with its edge against which shoulder the edge of the flange has a sealing contact.

1,425,169. PAPER CONTAINER. HENRY S. BREWINGTON, Baltimore, Md. Filed May 23, 1921. Serial No. 471,582. 3 Claims. (Cl. 229—5.6.)



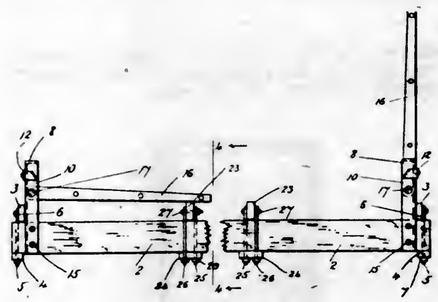
2. A paper receptacle comprising a cylindrical body portion having an internal shoulder at one end, and a closure for said end comprising a counter-sunk disk having its peripheral portion seated on the shoulder and in contact with the interior surface of the body above the shoulder.

1,425,170. STEERING-COLUMN CONTROL UNIT. STEPHEN F. BRIGGS and EDWARD N. JACOBI, Milwaukee, Wis., assignors to Briggs & Stratton Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 30, 1916. Serial No. 122,967. 5 Claims. (Cl. 247—1.)



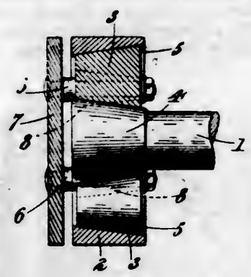
1. A steering column control unit comprising a casing having means for securing it to a steering column of an automobile, a fuse panel within the casing having fuse clips on one side thereof and forming a cable head, a lighting and ignition switch and a signal controlling push button on the other side of the fuse panel and projecting through the casing with connections passing through the fuse panel to the cable head, an electrical measuring instrument on the top of the casing, and an instrument and dashboard illuminating electric lamp mounted adjacent said instrument, said lamp provided with a hood having oppositely disposed light-directing openings, the instrument and light having connection with the cable head, whereby the dash and other parts of the automobile body are relieved of electrical connections.

1,425,171. HAYRACK. EDSON M. BROMLEY, Bristol, Ill. Filed Sept. 3, 1921. Serial No. 498,330. 3 Claims. (Cl. 296—6.)



1. In a hay rack, two side bars, end cross-bars arranged above and below the side bars, an arch-shaped frame having its lower parts arranged between the side bars with its arch-shaped top projecting above them, fastening devices securing all the said parts together, and a foldable end frame pivoted to the side portions of the arch-shaped frame above the said side bars.

1,425,172. GEARING. GERTRUDE MABEL CAMERON-COWBURN, Gosport, England. Filed Dec. 7, 1921. Serial No. 520,532. 1 Claim. (Cl. 74—34.)

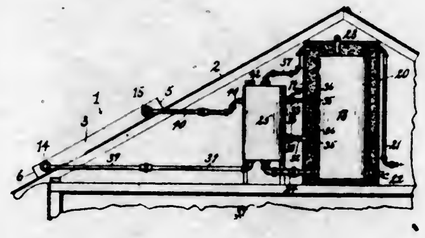


Friction gearing comprising a primary member, a secondary member encircling the primary member, intermediate members constituted of rollers interposed between the primary and secondary members, all of said members having coned coacting faces, a plate disposed in relation to said members, a plurality of pins mounted and projecting laterally from said plate and rollers mounted on said pins and having coned faces to coact with the coned faces of the intermediate members.

1,425,173. CELLULOSE ETHER SOLVENT AND COMPOSITION. STEWART J. CARROLL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 21, 1921. Serial No. 438,989. 6 Claims. (Cl. 134—79.)

4. A viscous flowable film-forming composition, comprising an alkyl ether of cellulose dissolved in a compound solvent comprising from 82 to 92 parts of ethyl acetate, 7 to 12 parts of ethyl alcohol and 1 to 6 parts of water by weight.

1,425,174. SOLAR-HEAT-COLLECTING APPARATUS. WILLIAM G. CARTTER and EDWARD D. ARTHUR, Arcadia, Calif. Filed Apr. 21, 1919. Serial No. 291,762. 8 Claims. (Cl. 126—271.)



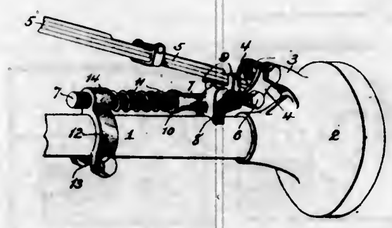
7. A solar heater comprising a copper jacketed coiled pipe adapted to be exposed to the rays of the sun, and having an inlet and an outlet end; a copper bed on which said pipe is positioned and in which it is partly embedded; a heat storage tank; pipes connecting the inlet and outlet ends of said coiled pipe with said storage tank; a non-freezing fluid heat conducting medium filling said heat storage tank and adapted to circulate through said pipes and the coiled pipe connected thereto; a distributor head in the bottom of said heat storage tank; coiled water pipes having their lower ends connected to said distributor head; a water tank; a discharge pipe connecting the bottom of said water tank with said distributor head; water return pipes connecting the upper ends of said coiled water pipes with said water tank, and arranged to enter said water tank at different elevations.

1,425,175. INSEAM MEASURE. ALBERT R. CHILDS, Fremont, Ohio. Filed Jan. 26, 1921. Serial No. 440,034. 2 Claims. (Cl. 33—2.)



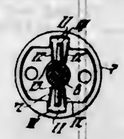
1. A device of the character described including a pair of tubular telescopic members, each of which being formed from a longitudinal sheet of metal having its longitudinal edges beat upon itself, the tubular members being oppositely disposed and one of which being provided with a sight opening, and a graduated scale element carried by the other tubular member and adapted to register with the sight opening.

1,425,176. SHOCK ABSORBER FOR VEHICLES. WILLIAM R. COCHRAN, Delphos, Ohio, assignor of two-thirds to Berien E. Jordan and John C. Jordan, both of Detroit, Mich. Filed Jan. 26, 1921. Serial No. 440,093. 4 Claims. (Cl. 267—29.)



1. As a new article of manufacture, a shock absorber, comprising a plunger provided at one end with a head adapted to rest and be supported on the vehicle axle or casing for the latter and bear against vehicle spring supporting links, a clip carrying said plunger and adapted to be secured to an axle or axle casing, and a spring mounted on said plunger and bearing at one end against the same and at the other end against the clip.

1,425,177. DRIVING CONNECTION. JOHN P. CONSTABLE, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Original application filed Aug. 9, 1915, Serial No. 44,389. Divided and this application filed June 24, 1918. Serial No. 241,672. 6 Claims. (Cl. 64—96.)



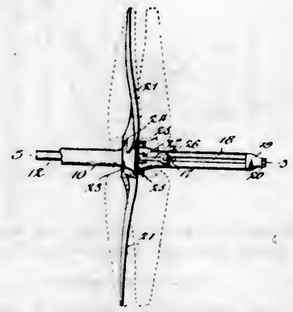
6. The combination of a driven member provided with diametrically opposed recesses opening inwardly, a driving member between said recesses, U-shaped springs having their ends extending into said recesses and engaging the sides thereof, and screws securing said springs intermediate their ends to said driving member, extending into said recesses between the arms of said springs and constituting stops, substantially as described.

1,425,178. CLASP. SIDNEY COWDRILL, Toronto, Ontario, Canada. Filed May 2, 1921. Serial No. 466,125. 1 Claim. (Cl. 24—230.)



A clasp consisting of an elliptical body portion, a transverse opening through said body portion, a groove formed circumferentially around one end of said body portion to and terminating at the opposite ends of said opening, the ends of said opening being slotted at right angles to and communicating with said groove, an engagement member having an attaching eye open at its inner end and having its sides resilient and bent so as to be adapted to be tensionally positioned in said groove, the ends of said engagement member being bent inwardly and of a depth equal to said slotted portion so that said engagement member will have to be positioned at right angles to said slots when desirous of disengaging said engagement member from said body portion and to be engaged against the sides of the said transverse opening nearest the engagement member when in position.

1,425,179. PROPELLER. ALBIN DANIELSON, Brooklyn, N. Y., assignor of one-half to Hilmer Johnson, Brooklyn, N. Y. Filed June 1, 1921. Serial No. 474,137. 4 Claims. (Cl. 170—163.)



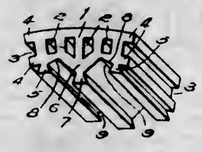
1. A propeller mechanism comprising a driving shaft, trunnions on said shaft, and blades arranged on opposite sides of said shaft and pivotally mounted on said trunnions.

1,425,180. MECHANICAL MOVEMENT. VICTOR R. DESPARD, Hinsdale, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind., a Corporation of Indiana. Filed Jan. 2, 1917. Serial No. 140,248. 19 Claims. (Cl. 173—35.)



1. In a device of the character described, the combination of a snap-action switch having cooperating switch elements, and a lever universally operable for effecting such action of the switch elements.

1,425,181. INTERLOCKING TILE. FRANK DOCHNAL, Collinsville, Ill. Filed Oct. 31, 1921. Serial No. 511,920. 3 Claims. (Cl. 72—41.)

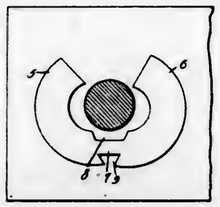


3. An interlocking tile comprising a perforated body having its inner face provided with three facial ribs, the intermediate rib extending beyond the plane of the other two ribs.

1,425,182. DETACHABLE WASHER. SYLVESTER S. DUNN, Clarendon, Tex. Filed Jan. 20, 1922. Serial No. 530,707. 1 Claim. (Cl. 85—51.)

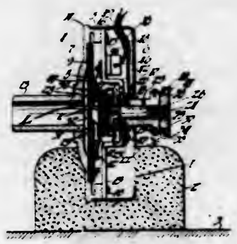
A washer including opposed sections, said washer having a cut out portion formed in the periphery thereof and

having a cut out portion formed in the inner wall thereof, said cut out portions adapted to permit the sections to



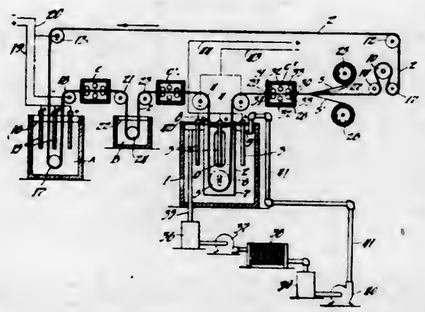
move with respect to each other, and said sections adapted to be moved into close engagement with a bolt.

1,425,183. TRANSMITTER. THOMAS A. EDISON, Llewellyn Park, West Orange, N. J. Filed Oct. 26, 1918. Serial No. 259,749. 7 Claims. (Cl. 179—122.)



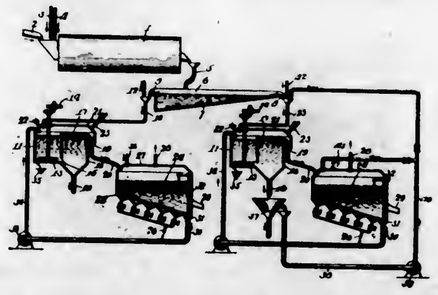
1. A microphone transmitter comprising a pair of spaced electrodes, and a loose mass of fine particles or granules of conductive material wholly immersed in a single liquid between said electrodes, substantially as described.

1,425,184. PRODUCTION OF THIN METAL SHEETS OR FOILS. THOMAS A. EDISON, Llewellyn Park, West Orange, N. J. Filed Aug. 26, 1920. Serial No. 406,044. 32 Claims. (Cl. 204—1.)



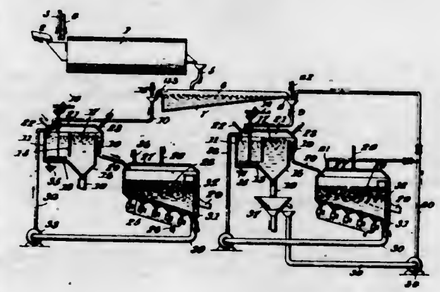
1. The method which consists in moving an elongated strip comprising an electrode of an electrolytic cell through and then out of the bath of the cell, and stripping from both sides of said strip at a point in the path of movement thereof beyond said bath, the metal deposited thereon in the bath, substantially as described.

1,425,185. SEPARATING PROCESS. RIDSDALE ELLIS, Oak Park, Ill. Filed Apr. 15, 1918. Serial No. 228,623. 54 Claims. (Cl. 83—85.)



1. The process of concentrating ores which includes mixing the comminuted ore with water and an oily liquid to oil the metalliferous particles, then aerating the mixture to form a froth and separating the froth from the remainder by flotation, and which further includes the addition, intermediate the oiling and aeration treatments, of material adapted to give anions having a greater valence than two for aiding the formation of a froth.

1,425,186. SEPARATING PROCESS. RIDSDALE ELLIS, Oak Park, Ill. Original application filed Apr. 15, 1918, Serial No. 228,623. Divided and this application filed Apr. 2, 1919. Serial No. 287,030. 16 Claims. (Cl. 83—85.)



1. The process of concentrating ores which includes mixing the comminuted ore with oil in the presence of an acid, then aerating the so-oiled ore pulp to form a collective froth and separating the froth from the remainder by flotation and which further includes the addition subsequent to the oiling treatment of material adapted to change the contact potential of the oil to a potential more negative than before for aiding the formation of a collective froth.

1,425,187. SEPARATING PROCESS. RIDSDALE ELLIS, Oak Park, Ill., assignor of five per cent to Paul Carpenter, Chicago, Ill. Filed Aug. 20, 1915, Serial No. 46,456. Renewed Apr. 25, 1921. Serial No. 464,257. 23 Claims. (Cl. 83—85.)

1. The process of concentrating ores whose metalliferous constituents include oxygen compounds of the metal to be separated which includes the separation of the said oxygen compounds from the other constituents of

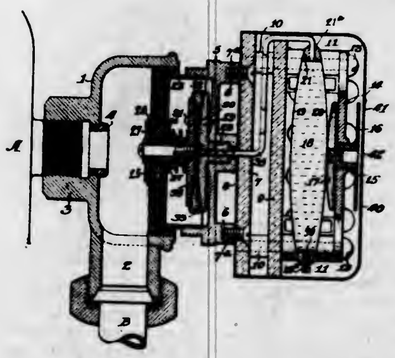
the ore by treating the comminuted ore with a fluid having a selective action for such oxygen compounds, and which further includes the use of a solution containing anions having a valence greater than two and cations having a valence greater than one for increasing the selective action of the fluid.

1,425,188. JEWELRY AND METHOD OF MANUFACTURING THE SAME. HENRY W. FISHEL, New York, N. Y. Filed June 11, 1921. Serial No. 476,797. 4 Claims. (Cl. 29—160.6.)



1. An article of jewelry comprising a body portion, a crimped metal ribbon surrounding the body portion, a gallery surrounding the crimped metal ribbon, the crimped metal ribbon acting as a bridging portion between the body and the gallery.

1,425,189. THERMOSTATICALLY-CONTROLLED VALVE. JAMES LOGAN FITTS, Merchantville, N. J., assignor to Warren Webster & Company, Camden, N. J., a Corporation of New Jersey. Filed Jan. 17, 1921. Serial No. 437,862. 22 Claims. (Cl. 236—42.)



15. In a thermostatically operated valve-controlling device, the combination of a valve casing having a seat, a valve for engagement with said seat, a bonnet or closure for said valve casing, a motor diaphragm supported by said bonnet; the valve being operatively connected with said motor diaphragm, an insulating plate carried by said bonnet, a thermostat chamber in fluid communication with said motor diaphragm, and means carried by the insulating plate for rigidly supporting said thermostat chamber.

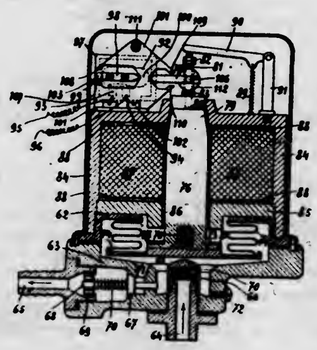
1,425,190. VEHICLE LAMP. HAROLD G. FITZ GERALD, Los Angeles, Calif. Filed Aug. 6, 1919. Serial No. 315,757. 1 Claim. (Cl. 240—7.)

A vehicle lamp comprising a lamp proper having a depending post, and a bracket adapted to support said lamp proper; said bracket having clamping jaws at its one end and having a slotted undercut cylindrical extension in which said post is received, and means for constricting the walls of said extension to frictionally engage said post; there being means for preventing accidental separation of said post and said bracket, and means to check movement of the lamp proper in one



direction in a vertical plane; said last named means comprising a member supported in the slot of said extension.

1,425,191. PUMPING APPARATUS. ANDRÉ GARBARINI, Courbevoie, France. Filed Dec. 26, 1919. Serial No. 347,642. 3 Claims. (Cl. 103—67.)

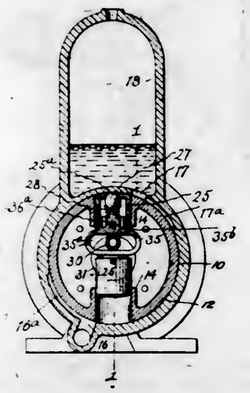


1. A pumping device comprising a valved chamber, a fluid moving element in cooperative relation therewith and having a part, at least, constructed of magnetic material, and means comprising a source of electrical energy, an electromagnet and current controlling mechanism therefor for intermittently establishing a magnetic field through the magnetic portion of said fluid moving element, whereby the same may be operated independently of any mechanical connection with said source of energy, said current controlling mechanism including a quick throw electric switch and means operated by the movements of the fluid moving element for alternately opening and closing the same at the respective ends of its operating stroke.

1,425,192. COMPRESSOR. GEORGE A. GASE, Cleveland, Ohio, assignor to The Champion Ice Machine Company, a Corporation of Ohio. Filed July 8, 1920. Serial No. 394,639. 10 Claims. (Cl. 230—31.)

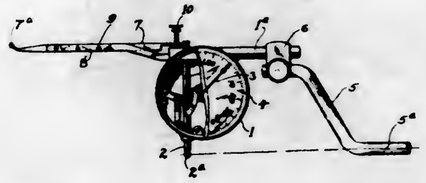
1. In a compressor, the combination of a casing containing a cylindrical chamber which is provided with

widely separated inlet and discharge ports through its cylindrical wall, a hollow rotor which is rotatably fitted in said chamber and is formed with a radially disposed cylinder, the bore of which extends through the cylindrical wall of the rotor in position to communicate with said inlet and discharge ports, a crank which is fixedly



connected with one side wall of said chamber and which occupies an eccentric position within the rotor, a reciprocating piston in said cylinder, connections between the piston and crank, means to rotate said rotor, a body of liquid within said chamber and rotor and serving as a packing and seal, and means for relieving excessive pressure which may develop in said cylinder.

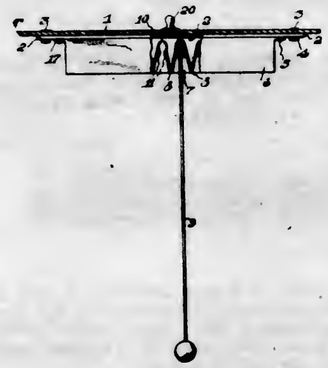
1,425,193. INDICATING GAUGE. BENJAMIN L. GATES, Chicago, Ill., assignor to Arthur E. Barili, Chicago, Ill. Filed Aug. 28, 1920. Serial No. 406,574. 12 Claims. (Cl. 33—172.)



1. In a dial indicator, a spindle carrying an indicating pointer, a plunger slidable in the indicator casing for rotating said spindle and having both ends projecting beyond the casing, one end of the plunger shaped for contacting with the work to be gauged, an external arm seated in the casing, a differentiating lever pivoted on said arm and engaging the opposite end of said plunger, said lever provided at the outer end with a contacting head.

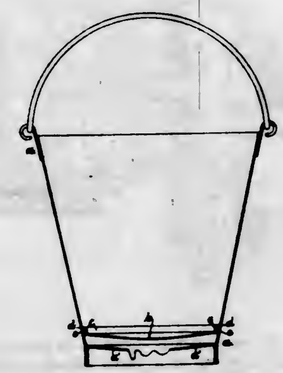
1,425,194. HATPIN PROTECTOR. FREDERICK HENRY GEORGE, Washington, D. C. Filed June 18, 1921. Serial No. 478,570. 1 Claim. (Cl. 132—72.)

A hat pin point protector comprising a box like structure of light spring material, the bottom wall of said box like structure being extended to form fastening flanges, and means for securing said flanges to the crown of a hat, said box like structure being subdivided into funnel shaped compartments having restricted openings in their inner ends adapted to receive the pin point but prevent the passage of the pin therethrough, each compartment being formed with mouths of substantial area, the edges



of the mouths being beveled, and gripping fingers pressed inwardly from the walls of each compartment.

1,425,195. BUCKET. EDWIN GRIFFITHS, Maghull, near Liverpool, England. Filed Aug. 10, 1920. Serial No. 402,602. 2 Claims. (Cl. 220—68.)

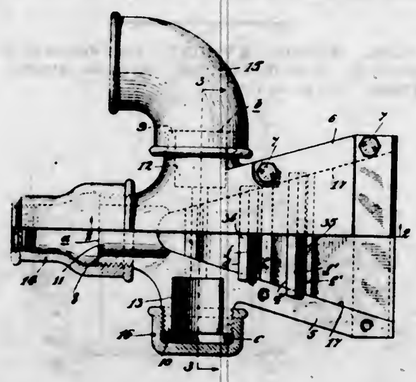


1. A false bottom for a bucket comprising a disk having a peripheral flange provided with a recess, and a packing ring seated in said recess.

1,425,196. OIL BURNER. ERNEST GROSSENBACHER, Fajardo, P. R. Filed June 22, 1921. Serial No. 479,437. 11 Claims. (Cl. 158—75.)

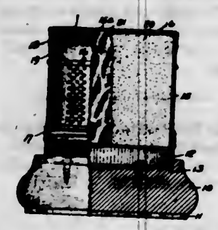
1. An oil burner comprising a casing having inlets for the atomizing agent and oil respectively, and provided with an exit nozzle, said casing further having an interior passage including a mixing chamber in which the atomizing agent and oil are mixed, said passage diverging toward said exit nozzle in one plane and alternately diverging and converging in directions transverse to said plane, and means in said interior passage whereby the stream

of mixed agent and oil is divided into sub-streams and for bringing them together again at high velocity, said



mixture being coincidentally spread in approximately fan-shape toward said exit nozzle.

1,425,197. MOISTURE-ABSORBING DEVICE. JOHN A. HAMLIN, New York, N. Y., assignor to Hamlin Hygrostat Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 17, 1921. Serial No. 493,070. 8 Claims. (Cl. 34—1.)



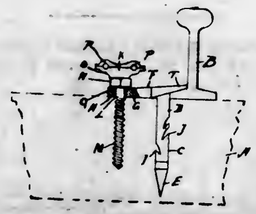
1. A moisture-absorbing device adapted to be placed in the case of a musical instrument, or a like situation, and comprising a base having a depressed top, a socket secured in said depressed top and constituting a catch pan, a foraminous inverted holder, its lower end being open and detachably engaged in said socket, and a previous sack containing a powdered moisture-absorbing substance, said sack and substance being sustained in the holder above the bottom of the pan for the latter to accommodate any siftings from the sack.

1,425,198. DETONATING DEVICE. KARL HAMPEL, Detroit, Mich. Filed Oct. 8, 1920. Serial No. 415,650. 1 Claim. (Cl. 46—46.)



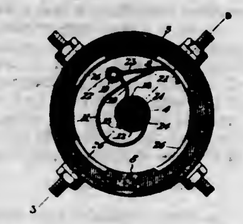
A detonating device comprising a carrier having a reduced cylindrical end, a split sleeve socket carried by the reduced end of said carrier and protruding therefrom, a weight in said socket against the reduced end of said carrier, said socket having a depressed portion engaging said weight, and a detachable cap holder in said socket against said weight and protruding therefrom.

1,425,199. RAILWAY SPIKE. JAMES HARTLEY, Philadelphia, Pa. Filed May 3, 1921. Serial No. 466,416. 1 Claim. (Cl. 85—13.)



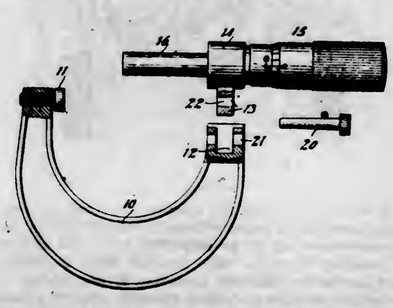
In a spike, a plurality of shanks, a head formed integral with said shanks, a plurality of extensions formed with the head, the sides of said extensions diverging from the head toward their outer ends, and an extension formed with the rear portion of the head having a hole for the reception of a wire holder.

1,425,200. CONTACT BRUSH FOR TIMERS. HARRY T. HASKINS, Denver, Colo. Filed Mar. 22, 1921. Serial No. 454,434. 5 Claims. (Cl. 200—26.)



1. A current distributor brush of the character described, comprising a metal strip bent to form a hub having an arm projecting therefrom, the outer end of which is bent upon itself to form a roll, a spring brush, one end of which is bent to form a sleeve which is pivotally mounted on said roll, means for preventing accidental disconnection of the brush from the roll, and a spring secured at one end to said hub, its opposite end exerting an outward pressure against the under side of said brush.

1,425,201. MICROMETER GAUGE OR CALIPER. ANDREW HETHERINGTON, West Hoboken, N. J. Filed Jan. 21, 1919. Serial No. 272,283. 2 Claims. (Cl. 33—167.)



1. A micrometer gauge or caliper, comprising any one of a plurality of frames of different spans, and each provided

at one end with a substantially rectangular socket opening into said ends, the said sockets of the several frames being alike, a single micrometer mechanism having an annular supporting body provided with a rectangular lug adapted to fit and conform to the said socket of any one of said frames, said lug and socket end having coacting and registering tapered apertures, and a locking pin engaging the apertures of the lug and the socket in which the lug is inserted at the time to lock the body in place in the frame.

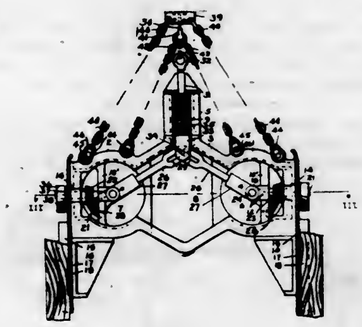
1,425,202. BORING LATHE. ROBERT L. HIBBARD, Bellevue, Pa. Filed Aug. 26, 1918. Serial No. 251,441. 31 Claims. (Cl. 77—3.)



1. A boring machine comprising a bed, a fixed bar support adjustable thereon, a spaced support also on the bed, a feed screw extending between said supports and rotatively but non-slidably attached to each of them, and a tail stock mounted on the bed between said supports and arranged to constitute a travelling nut relative to said screw.

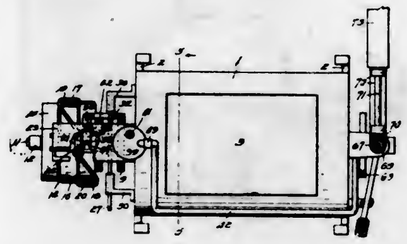
4. A boring machine comprising a bed, a fixed bar support adjustable thereon, a spaced support also on the bed, a feed screw extending between said supports and rotatively but non-slidably attached to each of them and a tail stock mounted on the bed between said supports and having a tapped hole to cooperate with the feed screw, means on one of said supports for driving the screw, and means for temporarily securing the tail stock to the bed to effect an adjustment of the spaced supports and the feed screw.

1,425,203. SAFETY DEVICE FOR MINE CAGES. GEORGE M. JOHNSON, Jeannette, Pa. Filed Feb. 24, 1921. Serial No. 447,593. 9 Claims. (Cl. 187—87.)
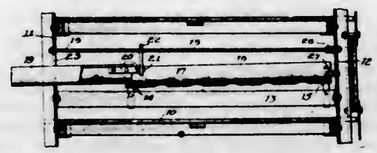


5. A safety device for the purpose set forth comprising a spring controlled hanger element normally maintained in an elevated position by an elevating cable and automatically lowered when the cable becomes slack or breaks, a pair of oppositely disposed operating levers having their inner ends connected with said element, gripper elements, and actuating means for said gripper elements, said actuating means having direct toothed engagement with said levers and operated to shift the gripper elements from the levers when these latter are shifted by the vertical movement of said hanger element.

1,425,204. WASHING MACHINE. JOHN JOHNSON, East Alton, Ill. Filed Oct. 11, 1920. Serial No. 416,068. 2 Claims. (Cl. 64—4.)



1. In means for imparting alternate rotation to a clothes cylinder, a gear fixed to the cylinder, a driven shaft, a gear fixed to said shaft and meshing with said first mentioned gear, a pulley fixed to said shaft, a pair of loose pulleys mounted upon said shaft, a pair of drive belts for said pulleys running in opposite directions, a rack member, means for moving said rack member a predetermined distance in one direction, and means actuated by said rack member at the end of its travel in either direction for shifting the belts to reverse the rotation of said driven shaft and meshed gears.

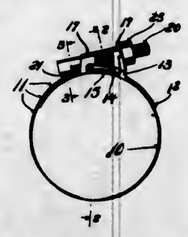
1,425,205. FEED TROUGH. PETER KOETENHOEVEN, Chicago, Ill., assignor, by mesne assignments, to Equipment Devices Company, a Corporation of Maine. Filed Dec. 12, 1921. Serial No. 521,725. 2 Claims. (Cl. 119—12.)



1. In a poultry-car containing coops at opposite sides of an aisle having trough insertion openings in their frames at the aisle, partition members between adjacent coops in the same tier including a semi-cylindrical shell, one of said partition members forming a guide which is outwardly converging with respect to said shell, a slide slidable thereon, a semi-cylindrical trough slidable through one of said openings and means for hingedly mounting on said slide the outer end of said trough near the longitudinal axis of the trough so that the trough will substantially rest in the shell when inserted, and will be raised so as to swing free of the shell when drawn out.

1,425,206. COUPLING. ALEXANDER MASZCZYK, Milwaukee, Wis. Filed Dec. 8, 1921. Serial No. 520,782. 1 Claim. (Cl. 24—19.)

The combination of an annular band having spaced apertures and overlapped ends, a support adjacent one end and rigid therewith, a bolt, a nut threaded thereon and engaging in tightening position with said support, and a detent on said bolt for engaging in said apertures and contracting said band.

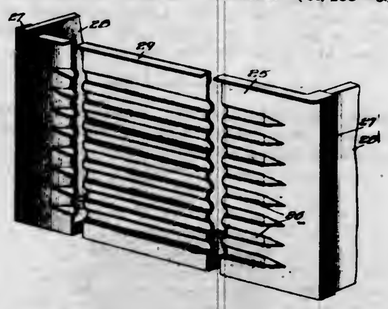


1,425,207. CORRUGATED METAL PLATE. BERT B. MILNER, New York, N. Y. Filed Apr. 29, 1919. Serial No. 293,462. 11 Claims. (Cl. 105—410.)



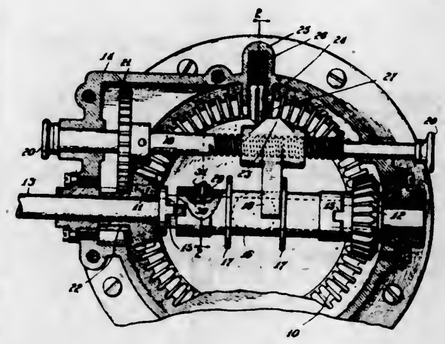
1. As a new article of manufacture, a metal plate having pressed therein adjacently arranged relatively deep, narrow corrugations terminating within the edges of the plates, which plate is of substantially uniform thickness throughout the corrugated portion thereof.

1,425,208. METHOD OF MANUFACTURING CORRUGATED METAL PLATES. BERT B. MILNER, New York, N. Y. Original application filed Apr. 29, 1919, Serial No. 293,462. Divided and this application filed Sept. 5, 1919. Serial No. 321,915. 4 Claims. (Cl. 153—68.)



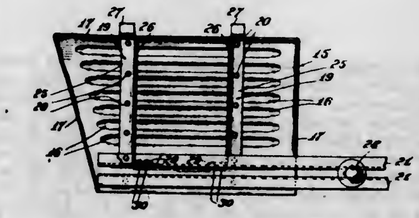
4. Method of forming a plate with parallel corrugations which have tapered terminal portions and flat margins beyond the ends of the corrugations which consists in making the plate with the portions to form the margins of substantially uniform and minimum thickness and with the portions from which the terminals of the corrugations are pressed of thicker metal, and pressing the plates so formed, while hot, between dies to form the corrugations and give the corrugated portion of the plate a thickness substantially equal throughout to the thickness of the margins.

1,425,209. WASHING-MACHINE-DRIVING MECHANISM. WILLIAM F. MORAN, Chicago, Ill., assignor to V. B. M. Company, Chicago, Ill., a Corporation of Illinois. Filed May 22, 1920. Serial No. 383,365. 5 Claims. (Cl. 74—50.)



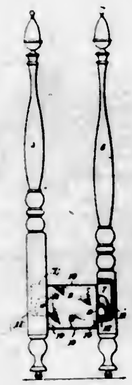
1. In mechanism of the character described, the combination of a drive-shaft, a pair of gears loosely mounted thereon in spaced relation with each other, a drum-controlling gear arranged in constant mesh with both of said pair of gears, a clutch member slidably mounted on the drive-shaft intermediate of the first mentioned gears and adapted to establish operative relation between said gears and said shaft, a screw-shaft disposed parallel with the drive-shaft and adapted to be rotated through the medium of one of said pair of gears, and a member threaded on said screw-shaft so as to move lengthwise thereof and adapted to control the clutch member, with spring-controlled means adapted to exert lateral pressure on the second mentioned member when the latter reaches a predetermined point in its travel lengthwise of the screw-shaft whereby said member with the screw-shaft will be shifted in the direction of travel of said member.

1,425,210. HOPPER-CAR DOOR. WALTER P. MURPHY, New York, N. Y. Original application filed July 29, 1919, Serial No. 314,055. Now Patent No. 1,377,783, dated May 10, 1921. Divided and this application filed Feb. 9, 1921. Serial No. 443,691. 7 Claims. (Cl. 105—280.)



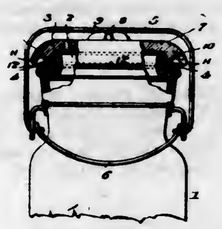
3. In combination with a railway car of the dumping type, formed with a discharge opening, of a door for said opening comprising a metal plate hinged to the car body and provided with a plurality of corrugations which extend transversely with respect to the hinges and are secured thereto at intervals and terminate close to the lateral edges of the plate so as to rigidify the margins of the plate outside the hinges.

1,425,211. DISPLAY RAIL. JOHN NELSON, Ottawa, Kans. Filed Mar. 29, 1922. Serial No. 547,602. 2 Claims. (Cl. 5—41.)



1. In a display rail for beds, wherein said rail is struck from a single sheet of material, and wherein end hooks are carried by the rail for perpendicularly supporting head and foot members of beds, said rail being of rectangular formation in plan view and having marginal reinforcing flanges.

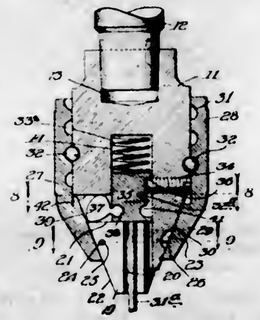
1,425,212. COVER FOR PRESERVING JARS. JAMES H. PAIGE, Manchester, N. H. Filed Aug. 25, 1920. Serial No. 406,013. 2 Claims. (Cl. 215—38.)



2. A cover for preserving jars, provided with inner and outer ridges or corrugations depending from its lower surface, the inner ridge having a crest adapted to engage the upper face of the gasket of the jar, and the outer ridge constituting the outermost edge of the cover and having a rounded part lying in a plane below that of the inner ridge and serving as a guard for the inner sealing ridge and adapted for engagement by the tool or device fulcrumed on the jar for the purpose of removing the cover.

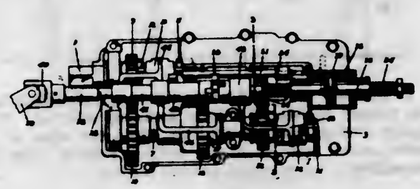
1,425,213. DRILL CHUCK. CARL A. PALMGREN, Chicago, Ill. Filed Aug. 28, 1919. Serial No. 320,501. 18 Claims. (Cl. 279—69.)

1. A chuck comprising, in combination, a body member, tool-clamping jaws thereon, an element on said body member presenting a wedge surface and operating, when shifted on said body member, to engage said jaws and shift the latter into clamping engagement with a tool inserted into the chuck, and means operated by the tool in moving inwardly into the chuck, for moving said



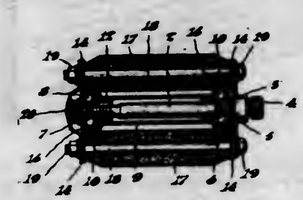
jaws toward the outer end of the chuck and against said wedge surface for forcing the jaws inwardly to tighten the grip of the jaws on the tool.

1,425,214. TRANSMISSION. JOHN PARCO, Jamestown, Calif. Filed July 5, 1921. Serial No. 482,412. 30 Claims. (Cl. 74—58.)



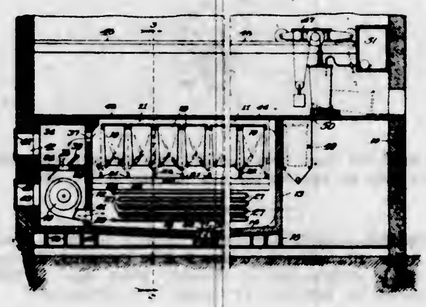
1. A transmission mechanism including a plurality of change-speed gears, superimposed and longitudinally movable sleeves, means between the sleeves and corresponding gears for effecting different driving relations with the movement of said sleeves, a hand-turned operating rod passing through the sleeves, means controlled by the rotation of said rod for selecting any sleeve desired to be moved, and means for then moving said sleeve.

1,425,215. BICYCLE PEDAL. CHARLES A. PERSONS, Worcester, Mass. Filed Sept. 14, 1920. Serial No. 410,254. 3 Claims. (Cl. 208—70.)



1. In a bicycle pedal, the combination of a spindle, a barrel encircling said spindle, a ball cup at each end of said barrel, arms integral with each cup and extending laterally therefrom in opposite directions, a hardened ball lining in each of said cups, and means at opposite sides of said barrel connecting the arms of said cups at the opposite ends of the pedal.

1,425,216. ART OF REFRIGERATION. JULIUS REBSAMEN, Chicago, Ill. Filed Dec. 29, 1920. Serial No. 433,763. 5 Claims. (Cl. 62—160.)



1. In refrigerating apparatus, a liquid container, means for spraying a cooling liquid against the container, cooling means below the container, means for collecting the sprayed liquid and distributing it over the cooling means, means for returning it after cooling to the spraying means, and means for passing air over the cooling means and circulating it about the container.

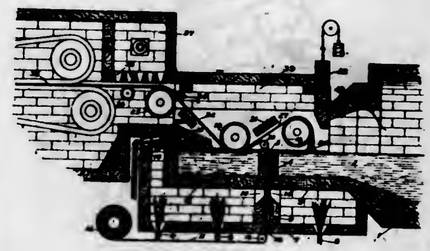
1,425,217. HAND BAG. FRANK REGULSKI, Brooklyn, N. Y., assignor to Herman Scheuer & Sons, New York, N. Y., a Firm composed of Herman Scheuer, Jacob H. Scheuer, and Alwin J. Scheuer. Filed July 26, 1921. Serial No. 487,756. 3 Claims. (Cl. 190—52.)



1. A hand-bag having an open pocket on its exterior, a purse having a flap inserted in the pocket with the flap suspended over the top edge of the pocket, the purse being free from permanent attachment to the bag, and means for detachably fastening the flap to the pocket.

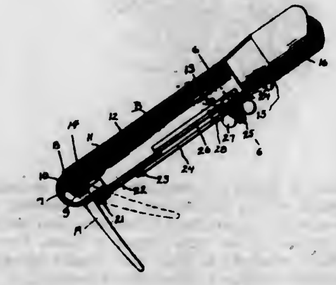
1,425,218. METHOD AND APPARATUS FOR DRAWING WIRE GLASS. CLIFFORD A. ROWLEY, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 17, 1921. Serial No. 445,602. 8 Claims. (Cl. 49—17.)

8. In an apparatus for drawing wire glass, a receptacle containing a bath of molten glass, a series of parallel horizontal cooled rolls mounted above the receptacle, a sheet of glass being drawn laterally from the bath over the first roll, means for feeding in a sheet of wire mesh below this sheet, the sheet and wire being drawn laterally below the second roll and dipping into the molten bath, the sheet then being drawn up over a



third roll, a drawing mechanism for stretching the sheet horizontally from the third roll, means for cooling the upper side of the sheet between the first and second rolls, and means for cooling the lower side of the sheet between the second and third rolls.

1,425,219. SELF-CLEANING RAKE. STANLEY M. SCARVIE, Decorah, Iowa. Filed June 2, 1920. Serial No. 386,134. 3 Claims. (Cl. 306—11.)

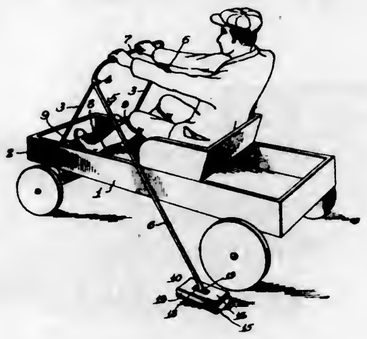


1. A rake having a head, a sleeve provided with slots extending inwardly from an end thereof having flat walls and enlarged portions, a spring within the sleeve normally maintaining the head in engagement with the flat walls, a closure for said sleeve to receive and prevent accidental detachment of the head, said sleeve having a second slot, links pivoted on the sleeve, links pivoted to said links, a securing means pivoting the second mentioned links together and disposed in said second slot and operable to move the first mentioned links against the head.

1,425,220. PROPELLING ATTACHMENT FOR CHILDREN'S VEHICLES. FERDINIC S. SHAGRAVE, Detroit, Mich. Filed Mar. 8, 1920. Serial No. 364,190. 5 Claims. (Cl. 208—38.)

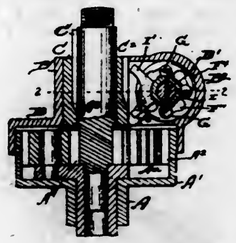
1. A propelling attachment for vehicles comprising a pair of rocker arms adapted to be pivotally attached

to a vehicle, and a substantially U-shaped pusher member providing side legs and a connecting hand-hold por-



tion, said legs being pivotally attached to the upper ends of said rocker arms at points adjacent the hand-hold portion.

1,425,221. LOCK. CHARLES P. SKUBLIN, Detroit, Mich. Filed June 2, 1921. Serial No. 474,340. 4 Claims. (Cl. 70—47.)



4. In a lock; a casing; a rotatable member including a spindle housed within the casing, a latch member secured to the spindle, a plurality of tumblers each having a peripheral groove at one end, lodged in bores formed in the rotatable member; a fixed disc loosely mounted upon the spindle having a plurality of bores and an arc-shaped slot connected with each bore through which the tumblers may rock,—with one of said openings counterbored to receive the end of the tumbler operating therein; springs adapted to maintain the tumblers at the end of their longitudinal movement and one of said tumblers in the counterbore of the disc member when released from the control of a co-operating key; and a co-operating key having a plurality of pins of varying length adapted to simultaneously force the tumblers inwardly whereby the peripheral grooves of the respective tumblers may be brought into registration with the arc-shaped slots of the disc that the latch member may be rocked upon the operation of the key.

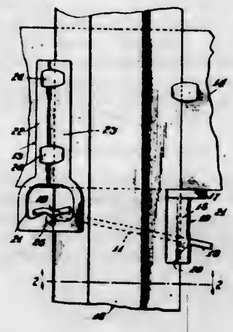
1,425,222. RETURN END AND METHOD OF MAKING SAME. ROBERT ABSALOM THOM, Manchester, England. Filed Aug. 31, 1921. Serial No. 497,273. 6 Claims. (Cl. 29—157.6.)

1. The method of making return ends for pipes, which consists in first forging a block of solid wrought metal of the shape of the desired return end, and then drilling two converging holes into the block from one face there-



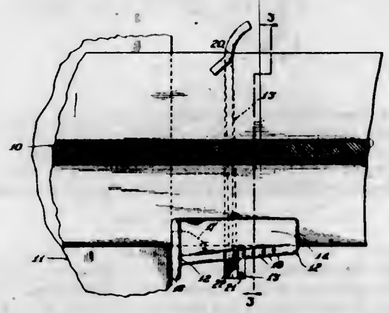
of until the inner ends of said holes intersect each other and form an angular through passage in the block.

1,425,223. RAIL ANCHOR. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1920. Serial No. 362,310. 17 Claims. (Cl. 238—329.)



1. In a rail anchoring device, the combination or rail base gripping means adapted to engage with a cross tie to resist longitudinal movement of the rail in one direction, and a separate fastening device for anchoring said rail base gripping means to the tie, whereby longitudinal movement of the rail in the opposite direction is resisted.

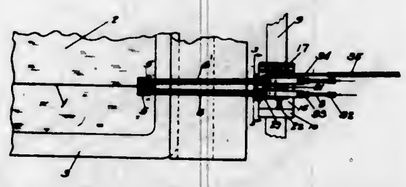
1,425,224. RAIL ANCHOR. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed July 2, 1920. Serial No. 393,595. 19 Claims. (Cl. 238—324.)



1. A rail anchor comprising rail base embracing members, one being a spring adapted to exert spring pressure on the upper and lower surfaces of said rail base adjacent

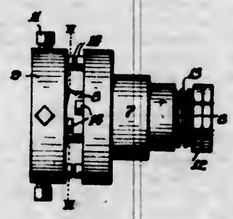
opposite edges thereof, which members are capable of different engagements with each other to accommodate the anchor to rail bases of differing contour.

1,425,225. APPARATUS FOR DRAWING SHEET GLASS. JAMES WHITTEMORE, Detroit, Mich., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 2, 1921. Serial No. 449,092. 12 Claims. (Cl. 49—17.)



12. In a glass drawing apparatus, means for drawing a sheet of glass from a mass of molten glass, a pair of idler rools near the source of each edge of the sheet between which the sheet edge is drawn, gears connecting the rolls whereby they are compelled to rotate equally and in opposite directions, means for cooling the rolls, and means for frictionally retarding each pair of rolls.

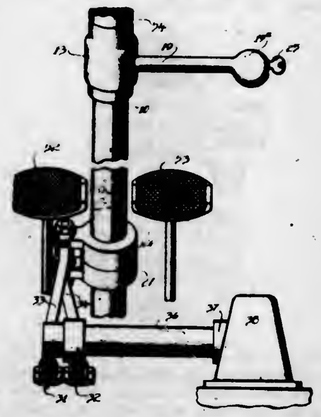
1,425,226. AUTOMATIC CHUCK FOR SCREW MACHINES. CHARLES F. WHITMAN, Detroit, Mich., assignor to Automatic Products Company, Detroit, Mich., a Corporation of Michigan. Filed May 20, 1920. Serial No. 382,889. 2 Claims. (Cl. 10—89.)



2. In a screw machine wherein a rotatable screw blank is adapted to be threaded by a die advancing towards the screw blank, means adapted to advance the die and revolve it at less speed than the screw blank, said means comprising a die chuck member supporting the die, a driven chuck interlocked with said die chuck for rotating it, a spring interposed between portions of said chuck members and maintaining an operative relation between said chuck members, said spring permitting said driven chuck to recede so that the die may be backed off the screw and allow said spring to establish a driving relation between said chuck members.

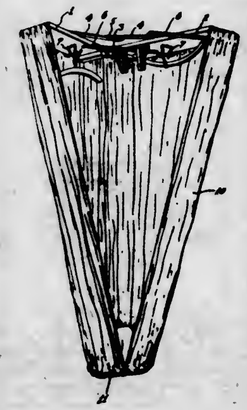
1,425,227. GEAR-SHIFTING MECHANISM. GARRETT W. WOODWARD, Chicago, Ill., assignor to Woodward Automatic Control Corporation, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1921. Serial No. 463,189. 4 Claims. (Cl. 74—89.)

1. In combination, a steering column, a member rotatably carried by said column, a selective sliding gear transmission, sliding gears in said transmission, means for selectively operably connecting said gears to said



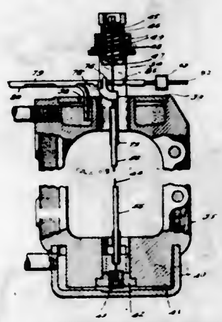
member, a lever for turning said member, and means under control of the operator for connecting said lever to said member and for disconnecting it therefrom.

1,425,228. PORTABLE WARDROBE. HELEN S. ALTMAN, Elcho, Wis. Filed Oct. 3, 1921. Serial No. 504,993. 2 Claims. (Cl. 45—118.)



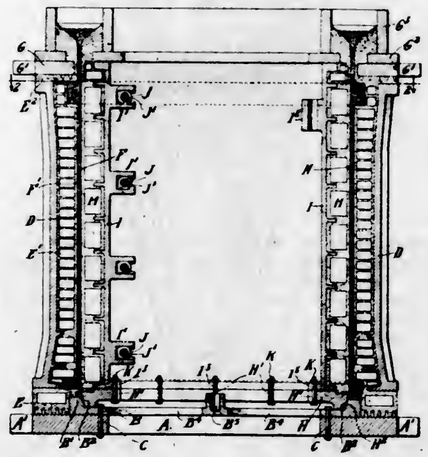
2. A portable wardrobe comprising a top including sections connected and adapted to be spread apart and folded; means for maintaining the sections in spread-apart relationship; a bottom; a foldable fabric body-portion secured to the top and bottom and adapted to be shaped to approximately the form of the sections when open for use; said bottom acting as a weight to extend the fabric body-portion when the top section is suspended; means for suspending the device from a support; said body-portion being provided with an opening for access to the interior of the wardrobe when extended; and guide means associated with the top sections; said fabric body-portion adapted to be folded around and inclose the top and bottom sections when these sections are brought together.

1,425,229. MOVABLE ELEMENT FOR METERS. DONALD J. ANGUS, Indianapolis, Ind. Original application filed May 20, 1918, Serial No. 235,572. Divided and this application filed June 26, 1920. Serial No. 392,038. 12 Claims. (Cl. 234—5.5.)



2. In a meter, a torsion wire, a movable meter element mounted on said wire, a pair of knife blade supports carried by said movable meter element, a knife blade removably resting on said knife blade supports, a marking device mounted on said knife blade, and a record sheet co-operating with said marking device.

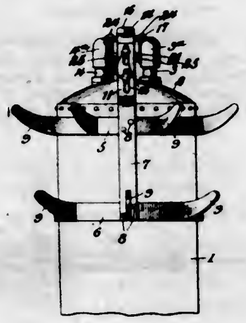
1,425,230. MOLDING APPARATUS. THOMAS P. ANTHONY, Edgewater Park, N. J., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed June 26, 1920. Serial No. 391,855. 6 Claims. (Cl. 22—166.)



1. Molding apparatus comprising a flask support, a centering ring secured to said support having an upwardly and outwardly flared annular seat for the sand supporting and centering ring of the core, a core center, a sand supporting and centering ring detachably secured to said center and extending beyond the bottom thereof to form a sand support, said ring having its outer edge tapered downwardly and inwardly to fit in the centering ring of the flask.

1,425,231. CLOTHES-DRYING RACK. DAVID B. BAKER, Hoquiam, Wash. Filed Apr. 12, 1921. Serial No. 460,858. 9 Claims. (Cl. 126—342.)

1. In combination with a hot water boiler, a clothes drying rack comprising a band in the shape of an arc of a circle and mounted to move about the boiler, clothes supporting means carried by the band, and means connected with the rack to suspend the same from the top of the boiler and in the longitudinal axis of the latter.

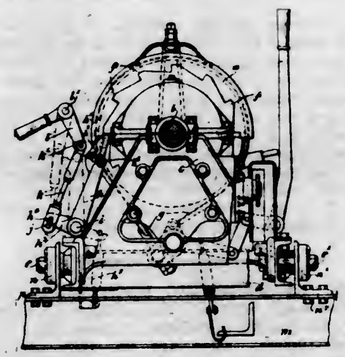


1,425,232. SHEET-METAL ARTICLE. FRANK E. BAYNE, Erie, Pa., assignor to Erie Art Metal Company, Millcreek Township, Pa., a Corporation of Pennsylvania. Filed Feb. 7, 1920. Serial No. 356,867. 8 Claims. (Cl. 220—80.)



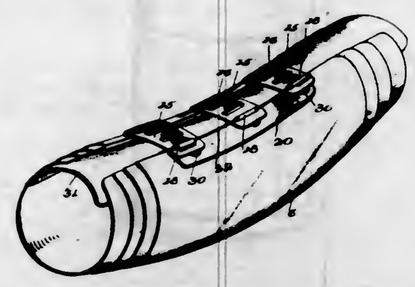
8. An article of manufacture of sheet metal having sides forming a corner; and a corner rib having its edges secured directly to the sides at the sides of the corner, the edges facing outwardly and a reversed loop having folds extending outwardly over the portion secured to the sides, the corner rib being extended forming legs for the basket.

1,425,233. WINCH. ROBERT S. BOLGER, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Original application filed Aug. 14, 1920, Serial No. 403,443. Divided and this application filed Mar. 24, 1921. Serial No. 455,351. 1 Claim. (Cl. 74—16.)



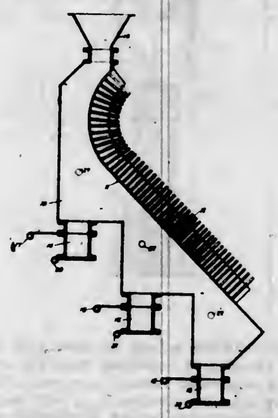
In a winch construction, a drum, ratchet teeth carried therewith, a pawl formed as a bell crank lever and having a nose formed as a separate piece and hinged to its long arm, a pin carried by the short arm of the pawl, and an independent link loosely engaging said pin, said link being pivotally secured to an independent bell crank which is adapted to move the pawl.

1,425,234. BLOW-OUT PATCH. JOHN BORDAS, Miami, Fla. Filed June 19, 1922. Serial No. 569,539. 3 Claims. (Cl. 152—24.)



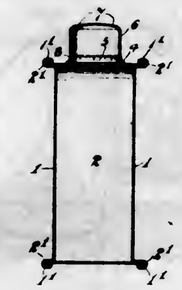
2. A blowout patch comprising a transversely curved body adapted to be arranged within a tire and consisting of a plurality of layers of material, the ends of which terminate in spaced relation to each other whereby the body is gradually tapered toward its ends, latch plates extending laterally from one side of said body and having spaced openings, and a strengthening and fastening strip secured to one longitudinal edge portion of said body and having aligned ears adapted for movement through said openings whereby the latch plates are connected to said strip, and a locking rod extending through said ears and holding said latch plates in position.

1,425,235. MAGNETIC SEPARATOR. WALTER E. F. BRADLEY, New York, N. Y. Filed Sept. 21, 1918. Serial No. 255,172. 3 Claims. (Cl. 83—71.)



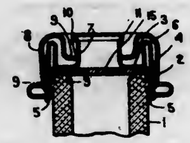
1. A magnetic separator comprising in combination a series of electromagnets with their pole faces directed generally downward and disposed in sequence one after another, means for supplying material to the magnetic influence thereof, and means for energising said magnets in groups of a plurality of relatively displaced cyclic current phases, the algebraic sum of the currents of a group alternating cyclically from a positive value to a negative value and back to positive.

1,425,236. CONTAINER. ALFRED E. BRUNS, Brooklyn, N. Y. Filed Sept. 27, 1919. Serial No. 326,862. 2 Claims. (Cl. 220—42.)



1. A container having a flat side with a hole therein, an upwardly inwardly flaring and straight flange integral with said side and adjacent said hole and a sifter top having an outwardly flaring straight flange engaging said inwardly flaring flange, the outside diameter of the lower end of said inwardly flaring flange being slightly greater than the inner diameter of the sifter top flange at its lower edge and the inside diameter of the upper portion of the sifter top flange being slightly less than the outside diameter of the upper edge of the flange adjacent the hole whereby when said flanges are pressed into engagement with each other the lower edge of said sifter top flange will compress the other flange inwardly and a tight frictional and locking engagement between said two flanges will be maintained throughout their lengths.

1,425,237. BOTTLE STOPPER. OSCAR CARLSON, Boston, Mass. Filed Oct. 18, 1919. Serial No. 331,667. 2 Claims. (Cl. 215—65.)

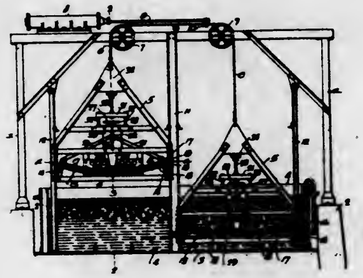


1. In a bottle stopper, the combination with a seat member to rest on the end of a bottle neck and having integral therewith a plurality of spring fingers to engage the bead of said bottle neck, and also having a headed stem extending therefrom, of a clamping member swivelled on said stem and capable of moving longitudinally thereof without turning thereabout, said clamping member being provided with cam portions which are brought, by the movement of said clamping member longitudinally of the stem, into a position to engage the fingers below the bead, turning movement of the clamping member causing the cam portions to clamp the fingers about the bead.

1,425,238. SPRING FITTING AND QUENCHING MACHINE. AMOS G. COLE and WALTER H. FOSTER, Lewistown, and LAWFORD H. FRY, Yeagertown, Pa. Filed Jan. 16, 1922. Serial No. 529,554. 8 Claims. (Cl. 266—6.)

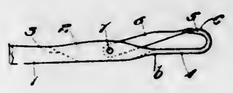
1. The combination in a machine for fitting springs prior to quenching, of two flexible dies; and means for

flexing one of said dies and for holding it in the flexed position, the other die, when one die is moved towards the



other with the blank between them, conforming to the shape of the flexed die.

1,425,239. KNITTING-MACHINE NEEDLE AND METHOD OF MAKING SAME. FRED W. COREY, Tilton, N. H. Filed Nov. 6, 1920. Serial No. 422,175. 1 Claim. (Cl. 163—5.)



The method of forming a knitting needle consisting of dieing out the needle from a blank and at the same operation swaging the pointed portion of the needle to make it more dense than the remainder of the needle.

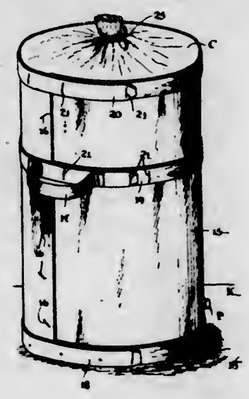
1,425,240. FOURDRINIER MACHINE. ALBERT JOHN DAVIES, Sault Ste. Marie, Ontario, Canada. Filed Mar. 12, 1921. Serial No. 451,693. 30 Claims. (Cl. 92—44.)



1. In a Fourdrinier machine, a deckel-strap; and a frame; in combination with a scraper; means, mounted on said frame, for holding said scraper in engagement with said deckel-strap; and mechanism for disengaging said scraper from said deckel-strap without deranging said mounting means.

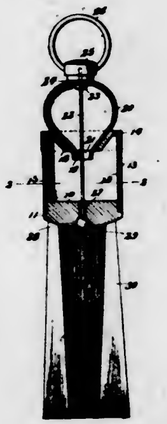
1,425,241. ICE-CREAM CONTAINER. ROBERT KENNON DENT, Akron, Ala. Filed Oct. 18, 1921. Serial No. 508,445. 2 Claims. (Cl. 217—49.)

1. An ice-cream container comprising an outer casing including a body portion of wood veneer and a bottom secured within the body portion, hoops embracing the body portion at its ends and intermediate its ends, flexible handles carried by one of the hoops, an inner casing of waxed paper, and a cover consisting of a sheet of waxed paper of cylindrical form secured at its lower



edges to the upper end of the outer casing, and means for gathering and securing the upper end of the cover to closed position.

1,425,242. HAIR DUSTER. PETER A. DINARDO, Brooklyn, N. Y. Filed Nov. 15, 1921. Serial No. 515,354. 3 Claims. (Cl. 15—136.)



1. A brush including a base provided with a chamber thereon and an opening extending from the chamber to the bristles, a dispensing element exteriorly of the chamber but communicating therewith, a rod supported by said element and a valve carried by the rod for closing the opening and adapted to be dislodged by the element as the contents of the chamber is being ejected.

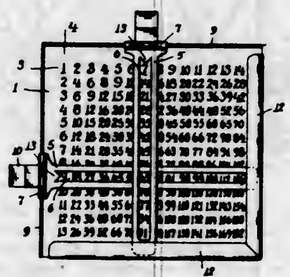
1,425,243. SHIP-HULL CONSTRUCTION. JOHN DUTHIE, Sr., Seattle, Wash. Filed May 16, 1919. Serial No. 297,463. 2 Claims. (Cl. 114—56.)

1. In a ship's double hull with a double bottom, or tank, side bulkheads inboard of the side plating and extending from the deck straight through the tank top and to the bottom, and rigidly connected to the tank top and



bottom, the side plating receding inwardly from the water-line to the bilge where it is spaced from the lower end of the side bulkheads, and to the deck.

1,425,244. CALCULATING DEVICE. ELMER ELSWORTH EASTON, Brockton, Mass. Filed June 21, 1920. Serial No. 390,308. 1 Claim. (Cl. 235—89.)



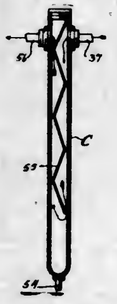
A calculator comprising a plate bearing thereon sets of figures having a mathematical relationship in rows at right angles to each other, two edges of said plate at right angles to each other being bent up at right angles to the plate, and the opposite edges of the plate being bent over parallel with the plate to form lips, and two indicator blades crossing each other at right angles, each being composed of sheet metal bent to form a head enclosing one of said bent up edges, an actuating thumb piece, and fingers bent beneath the edge of the plate for holding the head on said bent up edge, the end of the blade opposite its head being beneath one of said lips.

1,425,245. SHOE FASTENER. JOHN ELDRIDGE, Winnipeg, Manitoba, Canada, assignor of one-half to Henry Butler, Winnipeg, Manitoba, Canada. Filed Dec. 3, 1920. Serial No. 428,026. 1 Claim. (Cl. 24—206.)



In a shoe fastener a guide plate presenting a pair of opposing guide flanges and a pair of fastening tongues adapted to fasten the plate to one side of the shoe, a spring latch attached to the plate and provided with a dog operating through one of the guide flanges, an eye adjacent to the dog, and a toothed catch adapted to be received between the guide flanges and with the dog engaging the teeth, said catch being fitted with fastening tongues adapted to fasten the catch to the other side of the shoe and a pulling string attached to the eye.

1,425,246. SEPARATOR. PHILIP FISCHBACHER, Quincy, Ill., assignor to American Sanitary Refrigeration Co., Owensboro, Ky., a Corporation of Delaware. Original application filed July 30, 1919, Serial No. 314,222. Divided and this application filed July 12, 1920. Serial No. 395,488. 1 Claim. (Cl. 183—110.)



A separator of the character described comprising a vertically disposed chamber provided with a vertical partition extending downward from its upper end, the wall of the separator having an inlet opening at one side of the partition and an outlet opening on the other side of the partition, both of said openings being disposed adjacent the upper end of the separator, said partition being approximately zigzag in vertical cross section and having its opposite surfaces parallel and extending nearly to the lower end of the separating chamber, the crests of the zigzag partition being disposed closely adjacent to the opposite walls of the chamber whereby to impede the movement of foreign particles passing through the separator without impeding the movement of the fluid passing therethrough and whereby to bring the fluid passing through the separator into intimate contiguity with the exterior walls thereof.

1,425,247. PORTIÈRE ROD. CHARLES E. GALBREATH, Chanute, Kans. Filed Jan. 24, 1921. Serial No. 439,452. 1 Claim. (Cl. 156—19.)

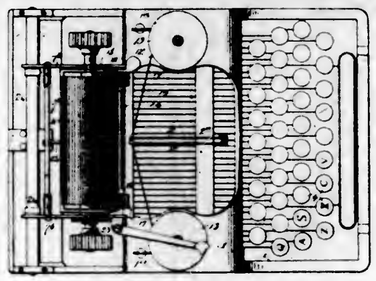


A portière rod comprising two members neatly slidably fitted into and out of engagement with each other, two caps respectively closing the outer ends of said members and arranged to support said members and having means for respectively engaging and being supported by two jambs of a door or window, the tubular member having a relatively small bleed hole communicating with the interior thereof and the atmosphere, and a coil spring mounted in the tubular member and bearing at one end against the adjacent cap and bearing at its other end against the inner end of the other member, substantially as set forth.

1,425,248. STENCIL-MAKING MACHINE. EDWARD E. GOMPERS, LEO WEIL, and PAUL HEIN, New York, N. Y. Filed Apr. 28, 1921. Serial No. 464,030. 5 Claims. (Cl. 197—135.)

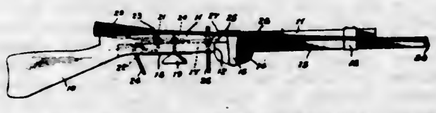
1. A stencil writing machine comprising a frame, a carriage mounted to travel across the frame and provided with a platen, type bars to strike at the front of the carriage, keys to operate the type bars, and a stencil holder supported by the carriage in front of the platen,

said frame having a free and unobstructed space below the holder extending across the frame and open above in register with said holder to permit free lateral travel of the portion of the stencil depending from the carriage,



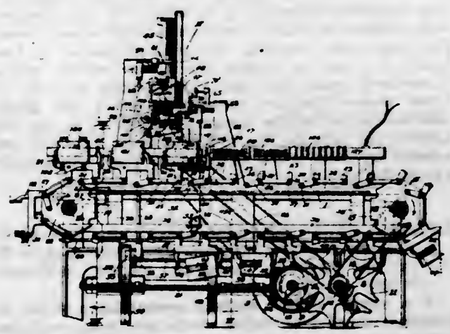
said holder having spaced guiding means to guide the sides of the stencil, the holder being provided with spaced rolls to press the stencil against the platen, and spring means normally pressing the holder and its rolls toward the platen.

1,425,249. MECHANICAL TOY INSECT GUN. CHARLES E. GOODWIN, Seattle, Wash. Filed Sept. 6, 1921. Serial No. 498,786. 3 Claims. (Cl. 124—14.)



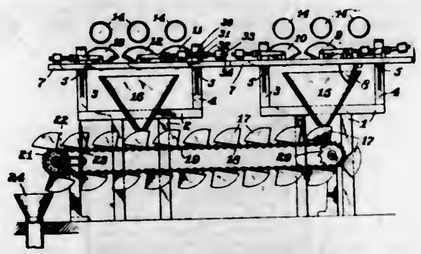
2. A mechanical toy insect gun comprising a stock and barrel, an extension barrel member slidably secured to said barrel, a bell secured to said gun, a clapper secured to said barrel adjacent said bell, an elastic secured at its outer end to said extension barrel member, a tassel secured to the inner end of said elastic, and trigger means adapted to release the inner tassel end of said elastic when under tension to allow same to spring forward and to cause said clapper to strike said bell.

1,425,250. MACHINE FOR APPLYING STAMPS AND THE LIKE TO PACKAGES OR CONTAINERS. GEORGE WILBUR GWINN, New York, N. Y., and JAMES W. LEARY, Allendale, N. J., assignors to Automatic Packing & Labeling Company, Durham, N. C., a Corporation of North Carolina. Filed Oct. 10, 1917. Serial No. 195,769. 33 Claims. (Cl. 216—52.)



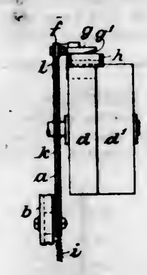
1. In a machine for applying stamps, the combination of a table; means for applying paste to a stamp and simultaneously laying the same in adhesive relation with the table and with a portion of such pasted face exposed; package holding means; and means for securing a relative movement between the table and holding means and causing the exposed portion of the stamp and package to contact whereby the stamp will be stripped from the table.

1,425,251. WEIGHING MECHANISM. GEORGE W. GWINN, Edgemere, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C., a Corporation of North Carolina. Filed Aug. 23, 1919. Serial No. 319,403. 8 Claims. (Cl. 198—39.)



1. In an apparatus for transporting and delivering weighed charges of material, the combination of a plurality of sets of scale pans; a funnel located below each set; a series of receptacles; means for continuously passing said receptacles beneath said funnels; and means for feeding material to said pans and effecting a dumping of the pans of each series successively, the pans of one series operating in alternation with those of the other.

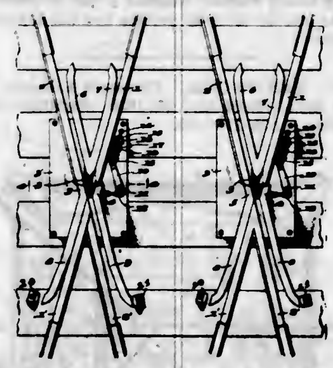
1,425,252. STOP MOTION OF LOOMS FOR WEAVING. HENRY HAIGH, Batley, England. Filed Aug. 1, 1921. Serial No. 489,022. 2 Claims. (Cl. 192—10.)



1. The combination, with a fast pulley, a loose pulley, and a belt guide for moving a driving belt from one pulley to the other; of a stationary support, a friction brake block pivoted to the said support and adapted to bear on the fast pulley, and a finger secured to the brake block and provided with an inclined under surface which bears on the said belt guide and supports the brake block clear of the fast pulley until the belt guide has moved the driving belt from the fast pulley to the loose pulley.

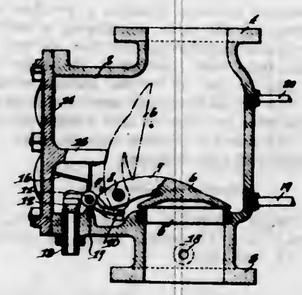
1,425,253. SPRING FROG RAIL. JAMES HARRIS HARDY, Crawford, Miss. Filed Oct. 10, 1921. Serial No. 506,855. 4 Claims. (Cl. 246—380.)

1. A spring rail frog comprising a frog point, a track-rail, a side-track rail, rail segments one of which is normally in alignment with the track or side-track rail, and means connected to the respective rail segments



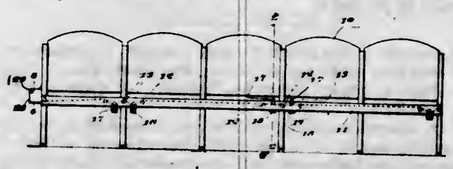
and parallel with the track-rail and side track-rail, whereby the rail segment of the unused track is moved laterally by the moving train.

1,425,254. SPRINKLER-SYSTEM ALARM VALVE. ERNEST G. HARRIS, North Vancouver, British Columbia, Canada. Filed May 24, 1920. Serial No. 383,897. 5 Claims. (Cl. 169—23.)



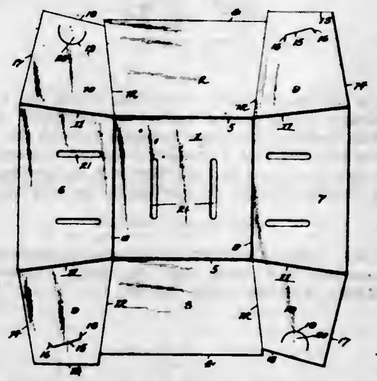
1. An alarm valve for a sprinkler system, comprising in combination, a hollow casing adapted for connection to a water service and to the pipe of a sprinkler system, a valve within the chamber seating outward against the water service connection, an alarm service connection between the water service connection and the sprinkler pipe connection, a valve closing the alarm service connection, means permitting opening of the water service valve to a certain extent without opening the alarm service valve, and means whereby opening of the water service valve beyond that limit will open the alarm service valve.

1,425,255. SEAT INDICATOR FOR THEATERS. EDWARD A. HENRICSON, Chicago, Ill. Filed Jan. 17, 1922. Serial No. 529,883. 6 Claims. (Cl. 116—114.)



5. The combination with a plurality of chairs having movable seats; of an indicator movable to denote the number of such seats in a predetermined position, a flexible member having an operative connection with the indicator for moving the same in one direction, means for moving the indicator in the opposite direction when a slack is produced in the flexible member, stationary and bodily movable pulleys over which the flexible member is trained, slides carrying the movable pulleys, spring-pressed plungers having operative connections with the slides, and means on the seats for operating the plungers in one direction.

1,425,256. BOX OR CONTAINER FOR BERRIES AND THE LIKE. JOHN PARKER HICKMAN and JOHN PARKER HICKMAN, Jr., Asbury Park, N. J. Filed Dec. 16, 1919. Serial No. 345,202. 4 Claims. (Cl. 229—35.)



1. As a new article of manufacture, a pasteboard box for berries and the like, formed from a single blank cut to provide an integral bottom and surrounding sides and ends, the edges of the bottom being creased to allow the sides and ends to be folded upwardly, and two of the sides being transversely creased to produce flap portions, which flap portions, when the ends and sides are upwardly folded, overlap each other; means carried by such flap portions adapted to engage and hold such flaps in position, the end walls forming a brace which tends to prevent disengagement of such engaging means; and a cover formed as an extension of one of the walls, said cover being provided with outwardly extending flaps adapted to be turned down and passed inwardly into the box and a tongue struck up out of one of the flaps and adapted to enter the opening formed in the adjacent wall of the box and to be curled upwardly over and against the inner face of such wall and to interlock therewith to maintain the cover in position.

1,425,257. METHOD AND MEANS FOR PROTECTING TREES. SIDNEY HOCKRIDGE, Redlands, Calif. Filed Jan. 7, 1919. Serial No. 269,979. 6 Claims. (Cl. 47—36.)



1. That method of protecting trees which consists in digging away the earth at the foot of the tree to expose

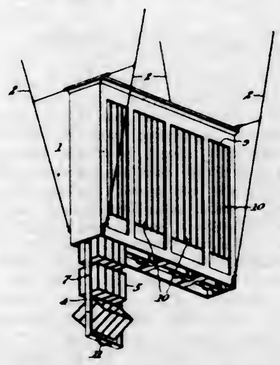
the crown roots, applying a jacket of air hardening material directly upon the trunk of the tree down as far as the crown roots, and replacing the earth previously removed.

1,425,258. TRACTION WHEEL. JOHN I. HOKE, Medina, N. Y. Filed Sept. 5, 1919. Serial No. 321,876. 2 Claims. (Cl. 301—44.)



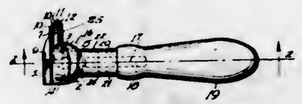
2. In combination with a traction wheel rim having an opening, a lug seated against the periphery of the rim and having a projection extended through the opening and provided with a forward projection engaging the inner face of the rim and provided with an opening, and a key inserted through the opening in the projection.

1,425,259. DISPLAY DEVICE. THOMAS CHARLES HOWE, Louisville, Ky. Filed Apr. 15, 1922. Serial No. 552,869. 9 Claims. (Cl. 211—9.)



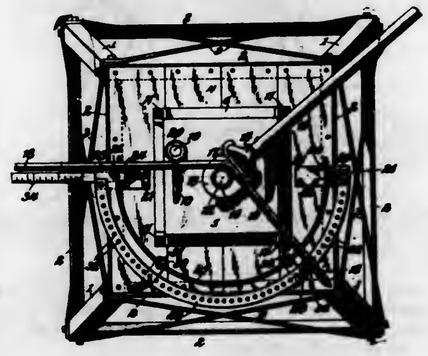
1. In a display device, a cabinet provided with aligned vertical openings in its opposite walls, a frame vertically movable in said cabinet, a plurality of article supports carried by said frame and located between said aligned openings, means extending across the upper portions of said openings preventing access to the interior of the cabinet, and means normally retaining said frame in raised position and yieldable to permit downward movement thereof.

1,425,260. UNIVERSAL CONCAVE SHAVE. GOTTFRID INGELSON, Indiana Harbor, Ind. Filed Nov. 6, 1920. Serial No. 422,238. 3 Claims. (Cl. 145—47.)



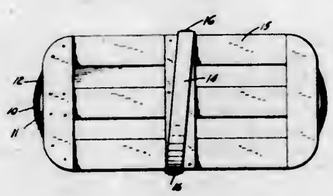
1. A device of the character described comprising a blade holder consisting of a substantially flat body portion having a beveled rear edge and a relatively raised portion on its face adjacent to its rear edge, a blade having a cutting edge beveled at the same angle as the rear edge of the body portion and positioned to the rear of the latter, and means for clamping the blade to the relatively raised portion, whereby a gap is provided between the face of the body portion and the adjacent side of the blade.

1,425,261. BAR BENDER. THEODORE KARDONG, Minneapolis, Minn. Filed June 25, 1920. Serial No. 391,649. 12 Claims. (Cl. 153—45.)



1. In a bending machine, a table, a bending head rotatably mounted on the table, comprising a vertical fulcrum pin and a bending shoe spaced from the pin adapted to engage and bend rods inserted in the space between the pin and shoe, a pair of vertical sockets in the table on opposite sides of said bending head, and a roller having a pin insertable in either of said sockets and adapted to form an abutment for bending rods in either a clockwise or counterclockwise direction.

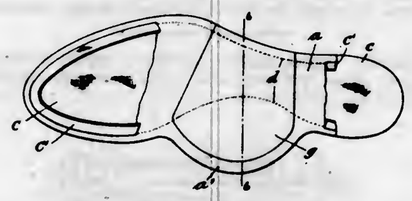
1,425,262. FRUIT BASKET. JOHN B. KENNY, Geneva, N. Y. Filed Mar. 11, 1922. Serial No. 542,927. 7 Claims. (Cl. 217—124.)



1. A fruit basket having a handle arching over the basket, a cover for the basket, and means for holding the cover from endwise movement comprising upwardly extending prongs projecting upward from the inside of the basket adjacent its upper edge and adapted to engage in the cover.

1,425,263. INNERSOLE FOR ARCH-SUPPORTING SHOES. WILLIAM A. KNIPE, Haverhill, Mass. Filed July 8, 1921. Serial No. 483,197. 3 Claims. (Cl. 36—71.)

1. An inner sole for welt shoes, comprising a bottom section having a downturned edge forming a lip to which the upper and welt are attached, a top section forming the interior covering for the shoe bottom, and a re-enforcing section disposed between said top and bottom sections at the shank portion thereof, said top and re-enforcing sections each being continuously extended transversely to a thin edge to form an arch-supporting portion, and said re-enforcing section being skived to a thin edge at its front and rear ends, and means for



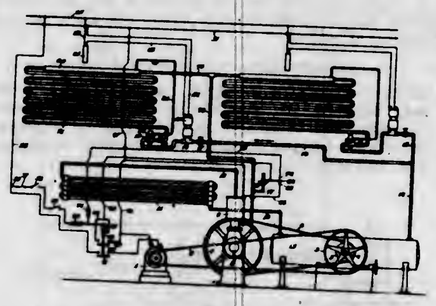
connecting all of said sections consisting of a row of stitches which pass therethrough from top to bottom at the base of said lip.

1,425,264. AMUSEMENT DEVICE. HERBERT B. LOEB, Philadelphia, Pa. Filed June 23, 1921. Serial No. 479,709. 7 Claims. (Cl. 229—6.)



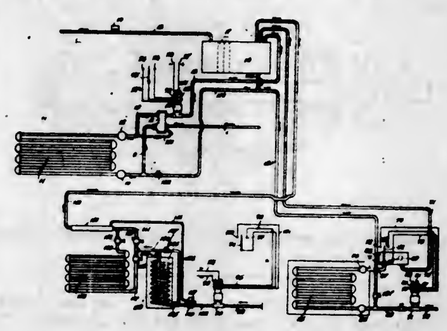
3. A container comprising a plurality of compartments, a cover therefor, said cover bearing the indicia of a clock face, each of the figures thereof being opposite one of the compartments, clock hands on the cover, and means whereby admission may be gained to any of the compartments individually.

1,425,265. REFRIGERATING APPARATUS. ALBERT T. MARSHALL, Hartford, Conn., assignor to Automatic Refrigerating Company, Hartford, Conn., a Corporation of New Jersey. Filed Oct. 29, 1919. Serial No. 334,286. 5 Claims. (Cl. 62—4.)



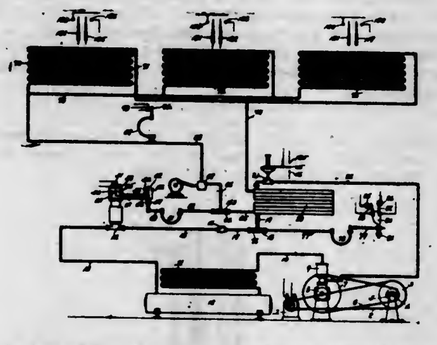
1. In an automatic refrigerating system in combination, a compressor, a plurality of refrigerating coils, a supply pipe leading from said compressor and having a connection to each of said refrigerating coils, a shut-off valve and an expansion valve at the inlet end of each of said refrigerating coils, thermostatic means located in proximity to each refrigerating coil for controlling the shut-off valve connected thereto, thermostatic means located at the outlet end of each refrigerating coil for controlling the expansion valve connected thereto, a common return pipe connecting the outlet ends of said refrigerating coils to said compressor, and means controlled by the pressure in said return pipe for controlling the operation of said compressor.

1,425,266. REFRIGERATING SYSTEM. ALBERT T. MARSHALL, Hartford, Conn., assignor to Automatic Refrigerating Company, Hartford, Conn., a Corporation of New Jersey. Filed May 7, 1920. Serial No. 379,648. 3 Claims. (Cl. 62—4.)



1. An automatic refrigerating system comprising a feed line for high pressure liquid refrigerant, an expansion valve in said feed line, a refrigerating coil connected to the low pressure side of said expansion valve, a float chamber located above said refrigerating coil, and connected to the outlet end of a said refrigerating coil, a float in said float chamber in operative relation to the expansion valve for automatically maintaining the level of liquid refrigerant in the float chamber substantially constant, a suction line leading from the upper portion of the float chamber, and a thermostatically controlled valve in said suction line for regulating the flow of refrigerant in accordance with changes of temperature adajcent to said refrigerating coil.

1,425,267. REFRIGERATING MACHINE. ALBERT T. MARSHALL, Hartford, Conn., assignor to Automatic Refrigerating Company, Hartford, Conn., a Corporation of New Jersey. Filed July 31, 1920. Serial No. 400,455. 8 Claims. (Cl. 62—4.)

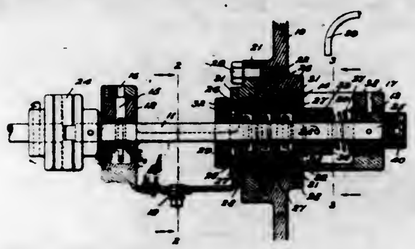


1. Automatic refrigerating apparatus comprising in combination a mechanically operated refrigerant system, a system for circulating fluid to be refrigerated by said refrigerant system, and means responsive to flow of the fluid in said circulating system for controlling the operation of said refrigerant system.

1,425,268. STUFFING BOX. ROBERT F. MASSA, New York, N. Y. Filed Nov. 20, 1918. Serial No. 263,274 10 Claims. (Cl. 286—7.)

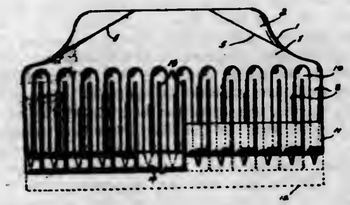
1. Means for transmitting power through a wall, comprising a shaft section passing through the wall, a stuffing box at the point of passage, a bearing for said shaft section at each extremity thereof, and a flexible

coupling at each end of the shaft section immediately adjacent to the bearings, adapted to impart rotary mo-



tion without transmitting longitudinal and lateral thrusts to the shaft section.

1,425,269. COMB. GRACE V. MILLER, Oakland, Calif. Filed June 16, 1921. Serial No. 478,158. 1 Claim. (Cl. 132—11.)



A hair and scalp cleaning comb, consisting of matched comb members, said members comprising a rear comb member having the back thereof provided with shoulders and having teeth terminating with barbs, and a front comb member disposed on said rear comb member and detainingly held thereon by the shoulders and barbs on the latter member, said front comb member having teeth registering with the teeth on said rear member and normally fitting the barbs on the teeth of the latter member, and a sheet of absorbent material disposed between said comb members, the sheet being slitted between the teeth of the comb members to form of the slitted portions brushes.

1,425,270. MAGAZINE BRACE. SAXTON JOSEPH MORGAN, Albany, Wis. Filed Apr. 28, 1921. Serial No. 465,152. 2 Claims. (Cl. 145—62.)



2. The combination with a brace having a relatively long spindle for operatively holding a work engaging tool, of a cylindrical tool magazine mounted concentric said spindle, said magazine being split transversely and having one of its parts securely fixed to said spindle and the other of its parts arranged for removal from said spindle to permit the entrance of tools to said magazine.

1,425,271. DOOR CATCH. FRITZ G. MÜRDEN, Cleveland, Ohio. Filed Apr. 20, 1922. Serial No. 555,781. 8 Claims. (Cl. 16—49.)



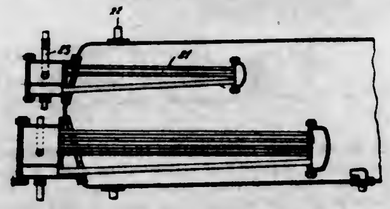
2. A door check, comprising a rod, a casing slidably mounted upon said rod within said housing, a brake shoe movably mounted in said casing, a cam member movably mounted in said casing, and spring means adapted for normally retracting said rod inwardly of the housing, whereby upon starting of said retracting movement by said spring, the rod will move said cam for forcing said brake shoe into engagement with the housing for breaking the retracting movement of said casing inwardly of the housing.

1,425,272. AUTOMOBILE BUMPER. ROY BURTON OLDER, Danville, Ill., assignor to Allith-Prouty Company, Danville, Ill., a Corporation of Illinois. Filed Mar. 23, 1921. Serial No. 454,752. 8 Claims. (Cl. 293—55.)



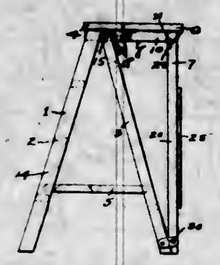
7. An automobile bumper comprising, in combination, a plurality of horizontally disposed vertically spaced parallel strips, and substantially Y shaped clips rigidly attached to the ends of said strips for uniting the same in a readily portable unitary structure, said clips being adapted for co-operation with means for applying said bumper to a vehicle.

1,425,273. STORAGE HEATER. ROBERT JEWETT PADDOCK, Maywood, Ill., assignor to The Griscom Russell Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 18, 1920. Serial No. 359,571. 3 Claims. (Cl. 257—199.)



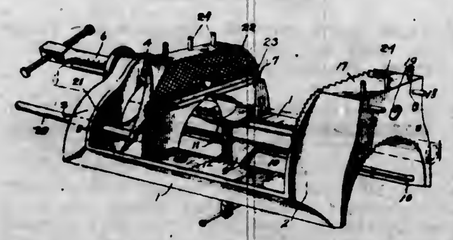
1. In an apparatus of the class described, a reservoir for the liquid to be heated, a heating element comprising a series of tubes projecting into the reservoir for the circulation of the heating medium, said tubes comprising a group of tubes of small bore distributed through the lower portion of the reservoir and having a common intake and a common discharge connection, and a return tube of large cross section connected to the common discharge of the small tubes and having a discharge connection outside the reservoir, a second smaller heating element of identical construction, and an intake opening in said shell for the liquid to be heated, said intake having a nozzle for directing the flow of the incoming liquid around said heating tubes.

1,425,274. EXTENSION-TOP STEPLADDER. JOHN F. PARKINSON, Palo Alto, Calif. Filed Sept. 23, 1920. Serial No. 412,417. 1 Claim. (Cl. 228—17.)



A step ladder comprising a step member having side rails, angle irons each having one of its flanges depending downwardly and secured to the top of one of said rails, a stationary top member secured to the other flanges of said angle irons and normally disposed in a horizontal position, brace members having pivotal connection with the downwardly depending flange portions of the angle irons and arranged adjacent the upper ends of the side rails, an extension top member, angle irons having their horizontal flanges connected with the extension top and pivotal connection between the inner ends of the angle irons carried by the stationary top and the angle irons on the extension top, supporting members for the extension top having their upper ends detachably engaged with the downwardly depending flanges of the angle irons carried by the extension top and their lower ends arranged flush with the lower ends of the brace members for the step portion and stationary top and pivotal connection between the lower ends of said brace and supporting members whereby said step member and its braces, together with the top extension and its supporting members are folded onto each other when not in use and folding braces connecting the step portion and its brace members adapted to be normally disposed in horizontal alignment when said folding brace members are in an operative position and folded inwardly toward each other when not in use.

1,425,275. THREE-IN-ONE CLAMP AND VISE COMBINED. CHRISTIAN P. PAULSEN, Seattle, Wash. Filed May 12, 1921. Serial No. 468,890. 1 Claim. (Cl. 81—33.)



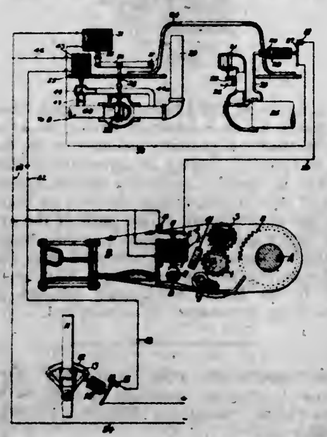
In a device of the character described, lateral longitudinally grooved frame bars, an arcuate bearing member connecting said bars at one end, an arcuate jaw member connecting said bars at the opposite end, an arcuate jaw member having sliding engagement with said frame bars and provided with a screw engaging said bearing member, and a clamp member slidable in the grooves of said frame bars and provided with a screw disposed at right-angles to the screw of said sliding jaw member.

1,425,276. WELL PUMP. JOHN PENROD and ROBERT D. THOMPSON, Okmulgee, Okla. Filed Aug. 24, 1921. Serial No. 494,846. 2 Claims. (Cl. 103—80.)



1. In a pump for well casings, a barrel, a pump rod extending through the barrel and leaving a fluid outlet space between the same and the barrel, a standing valve at the lower end of the barrel, a valved plunger within the lower portion of the barrel connected to said rod, said barrel including a portion engageable by the pump rod upon upward movement of the latter beyond the normal upward limit of its stroke, provided with an internal tapering portion forming a valve seat and having apertures therethrough, a ring shaped tapering valve member around the rod normally seated downwardly on said seat and controlling the several apertures, and means carried by the pump rod to unseat the said valve prior to engagement of the rod with the barrel for lifting the latter.

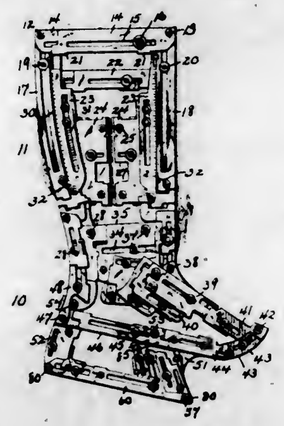
1,425,277. CONTROLLING MECHANISM FOR LOCOMOTIVE BOOSTER MOTORS. FRANK R. PETERS, New York, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Dec. 31, 1921. Serial No. 522,061. 10 Claims. (Cl. 105—48.)



2. A control mechanism for locomotive booster motors comprising in combination, a booster throttle and elec-

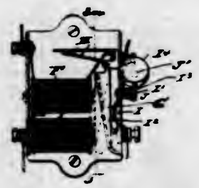
trically operated means for opening said throttle the circuit of which is closed upon admission of live operating steam to the main cylinders of the locomotive.

1,425,278. PATTERN FOR SHOEMAKING. JOHN P. PETRARCA, Arctic, R. I. Filed Dec. 9, 1920. Serial No. 429,329. 3 Claims. (Cl. 33—5.)



1. A pattern for shoes comprising a frame for outlining an upper, a frame for outlining a vamp, a frame for outlining a counter, and means for securing the frame for the counter either to the frame for the upper or that for the vamp.

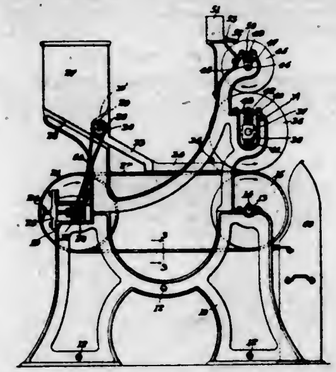
1,425,279. ELECTRIC SIGNAL ALARM. AARON T. PICKETT, Detroit, Mich. Filed Nov. 12, 1919. Serial No. 337,595. 4 Claims. (Cl. 200—106.)



3. In a device of the character described, including a magnet frame, an electro-magnet having an armature, a spring controlled arm pivotally mounted on the frame and adapted to normally overlap the armature of the electro-magnet and be thereby restrained against action of the spring, and said electro-magnet adapted to be energized to carry the armature out of the path of the arm to release the latter and thereby close a circuit to actuate an alarm, and an operating arm connected with the swinging arm whereby the swinging arm may be manually returned to its initial overlapping relation with the armature when the magnet is deenergized.

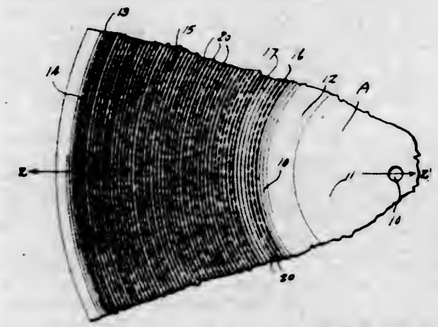
1,425,280. MACHINE FOR MARKING ARTICLES. WILLIAM A. PIERSON, Saratoga Springs, N. Y. Filed Oct. 11, 1919. Serial No. 330,131. 4 Claims. (Cl. 101—37.)

1. In a machine of the class described, a frame, an endless conveyor mounted therein, a printing cylinder, means for yieldingly supporting the printing cylinder, means for yieldingly maintaining the printing cylinder



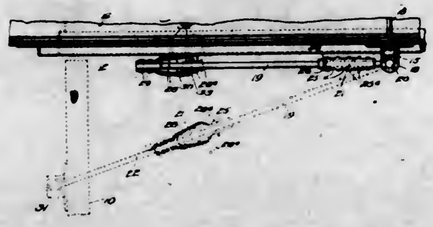
normally in contact with the conveyor, and an inking cylinder, normally maintained in continuous yielding contact with the surface of the inking cylinder.

1,425,281. PHONOGRAPH RECORD. DONALD B. PORTER, San Francisco, Calif. Filed Feb. 10, 1921. Serial No. 443,882. 8 Claims. (Cl. 214—42.)



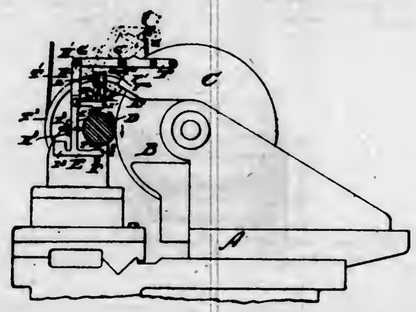
1. A phonographic record having a complete selection thereon and a separately recorded excerpt from a second selection recorded upon the inner zone of the record and connected to the complete selection by a stylus-guiding groove.

1,425,282. DOOR HOLDER. EDWARD POSSON, Chicago, Ill. Filed Sept. 12, 1919. Serial No. 323,399. 6 Claims. (Cl. 292—275.)



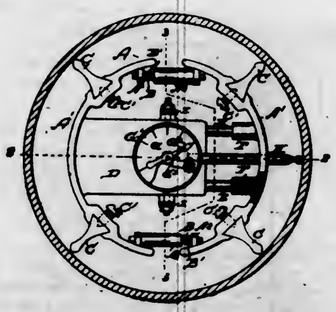
1. In combination, a door, a door casing, a rod pivoted at one end on said door, a second rod pivoted at one end on said casing, a stop member secured to the other end of one of said arms, and a spring secured to the other end of the other of said arms and adapted to engage directly said stop member.

1,425,283. GRINDING GAUGE. FREDERICK J. PRATT, Detroit, Mich. Filed Apr. 2, 1921. Serial No. 458,010. 6 Claims. (Cl. 33—147.)



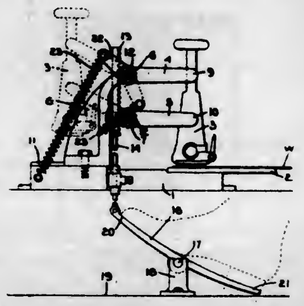
1. In a device of the character described; a member adapted to partially encircle the element to be measured; a yieldable support adapted for attachment to a grinding machine, in which said member is pivoted; a plurality of adjustable elements mounted in said member adapted to impinge upon the element to be measured; an indicating gauge; a yieldable stylus adapted to bear upon the element to be measured and cooperating with the gauge to effect a gauge reading; and a gem-stone fitted to the end of the stylus to co-operate with the adjustable elements to determine the diameter of the element measured.

1,425,284. GAUGE FOR CYLINDERS. FREDERICK J. PRATT, Detroit, Mich. Filed Mar. 5, 1921. Serial No. 449,710. 6 Claims. (Cl. 33—178.)



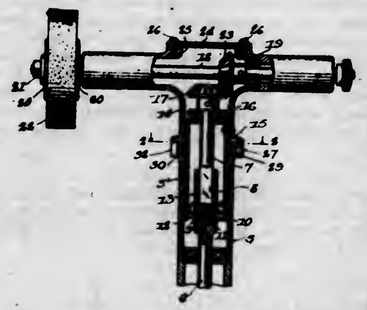
1. In a device of the character described, a divided cylindrical shell, yieldable means connecting the portions of the shell together, radially disposed removable shoes supported in the wall of each portion of said shell, their outer edges being adapted to contact with the wall of a cylinder bore, whereby the central axis of the device may register with the central axis of the cylinder bore, an indicating gauge supported centrally within said shell, and a yieldable stylus adapted for traversing the bore of the cylinder to be tested and to actuate said indicating gauge by its horiosntal movement, whereby variations in the bore of the cylinder may be determined.

1,425,285. MARKING MACHINE. FRED A. PUTNAM, Keene, N. H., assignor to Markem Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 22, 1921. Serial No. 439,257. 2 Claims. (Cl. 101—301.)



1. In a marking machine, the combination with a bed having a work support and an inking pad located in parallel planes, of a vertical support rising from the bed between the work support and pad, two shafts journalled in said support, an arm rigid with each shaft, said arms having a parallel relation, a printing head pivotally connected to the ends of the arms, a gear on each shaft, a rack meshing with said gears, a treadle connected with said rack, movement of the rack turning the shafts thereby to carry the printing head from the work support on one side of the vertical support to the pad on the other side of the vertical support, and a spring acting on one shaft and normally holding the printing head slightly elevated from either extreme position.

1,425,286. GRINDER. LOUIS QUARLES, Milwaukee, Wis. Filed Jan. 6, 1922. Serial No. 527,292. 6 Claims. (Cl. 51—166.)

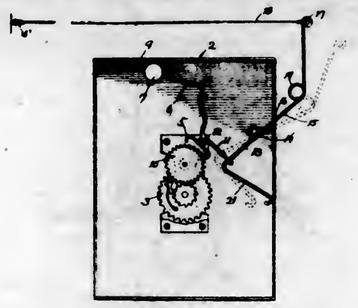


1. In a grinder, the combination of a standard, a grinder head including a housing and grinder shaft, a drive shaft operatively connected to said grinder shaft, interlocking connection elements on said housing and standard engaged and disengaged by a longitudinal movement of the one relatively to the other to vary the angular position of said grinder head and positively locking the same against rotation.

1,425,287. FIRE ALARM. MICHAEL D. S. RICCIO, Jamestown, N. Y. Filed Dec. 8, 1919. Serial No. 343,261. 1 Claim. (Cl. 116—106.)

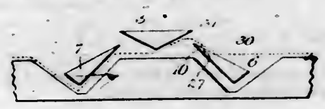
In a fire alarm, a casing, a main spring, a gear train driven from said main spring and including an escapement wheel, an escapement pawl co-acting with said wheel, a hammer lever integral with said pawl and having a tail arm, a spring lever having an outer arm pro-

vided with a coil therein and an inner angularly bent arm engaging said tail arm to hold said hammer lever set against vibration, and a fusible cord connected to said



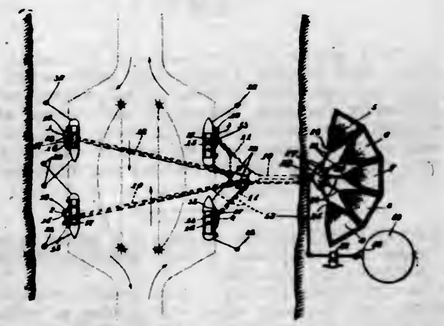
outer arm, the free end of said inner arm having a bearing against the casing to thereby tension said arm and the outer arm of said spring lever being thereafter tensioned adjustably in the tensioning of said cord.

1,425,288. TUCKING MECHANISM FOR KNITTING MACHINES. FRANK W. ROBINSON, Reading, Pa., assignor to The Nolde & Horst Co., Reading, Pa., a Corporation of Pennsylvania. Filed Apr. 24, 1919. Serial No. 292,262. 1 Claim. (Cl. 66—21.)



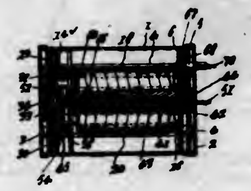
In a knitting machine comprising series of long butt and of short butt needles, certain of which are provided with relatively long latches; knitting cams including a two-part latch-clearing cam comprising a fixed part operative upon all the needles sufficiently only to clear the loops of the short-latch needles and a movable tucking-cam top-extension part normally spring-pressed toward the needles and adapted to automatically position under the butts of the latter for increasing the latch-bearing movements imparted thereto; and intermittently operated means for positively withdrawing said tucking cam extension.

1,425,289. SYSTEM FOR DISPOSAL OF BILGE WATER AND RECOVERY OF SLUDGE. WILLIAM C. ROBINSON, Baltimore, Md. Filed Feb. 9, 1922. Serial No. 535,193. 9 Claims. (Cl. 210—51.)



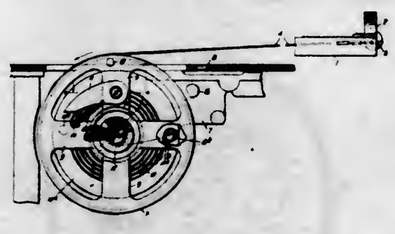
1. A system for the disposal of bilge water and the recovery of sludge and oil from bilge water consisting of a station accessible to navigable water so the ships to be discharged can come along side the same, a settling tank or basin, a pipe connecting the station to the settling tank, means for connecting the pipe to the liquid in the bilge of a boat and means for pumping the liquid from the bilge through the pipe to the settling tank, the settling tank having means for releasing the water from beneath the sludge and oil.

1,425,290. RAZOR-BLADE SHARPENER. AXEL RUDOLPH SALSTROM, Jersey City, N. J. Filed July 8, 1910. Serial No. 309,328. 5 Claims. (Cl. 51—86.)



2. A razor sharpener comprising a supporting frame, pairs of sharpening rolls mounted in the frame and disposed at opposite sides of a central supporting space, an oscillating blade holder arranged in said space, means to rotate said rolls, yieldable means associated with the blade rotating means for rocking said blade holder, and means for arresting the movement of the blade holder while permitting of the operation of the rolls.

1,425,291. TYPEWRITING MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Aug. 30, 1919. Serial No. 320,938. 6 Claims. (Cl. 188—189.)

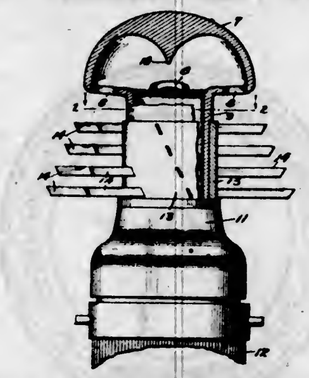


3. In a typewriting machine, the combination of a spring drum, a stop pivotally mounted on said drum, a second stop on said drum, a relatively stationary stop, and a spring normally maintaining said pivoted stop ont of position for co-operation with said stationary stop, said pivoted stop automatically throwing to operative position against said second stop during abnormally rapid movements of said drum.

1,425,292. FLUID TRACTOR MOTOR. SIDNEY C. SLADDEN, New York, N. Y. Filed Feb. 14, 1921. Serial No. 444,992. 7 Claims. (Cl. 137—70.)

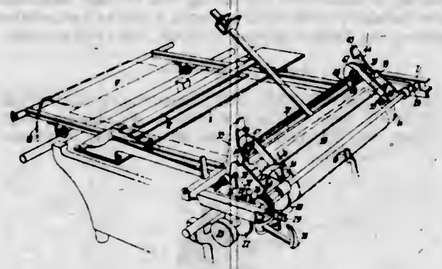
1. An apparatus as characterised comprising a hollow head having an unbroken front wall, and a rear wall having a centrally disposed receiving opening, and a series of delivery openings surrounding said receiving openings

for delivering the fluid from said head in lines approximately parallel to the fluid being delivered to said head;



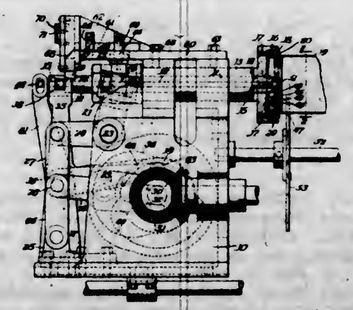
and rotative means disposed in the path of fluid delivered from said delivery openings to be rotated thereby.

1,425,293. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 18, 1918. Serial No. 262,939. 33 Claims. (Cl. 197—126.)



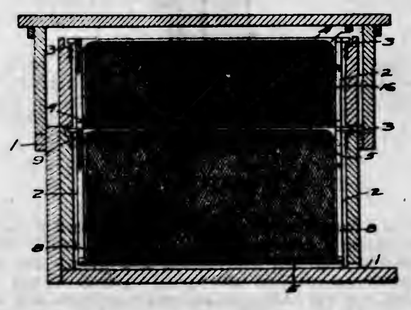
1. The combination with a revoluble platen, of line-spacing mechanism therefor, mechanism for displacing the platen from printing position, and means operable by said displacing mechanism for line-spacing the platen.

1,425,294. NECKING MACHINE. JULIUS A. STOCK, Cicero, Ill., assignor to W. C. Ritchie & Company, Chicago, Ill., a Corporation of Illinois. Filed May 14, 1921. Serial No. 469,741. 5 Claims. (Cl. 113—48.)



1. In a necking machine of the character described, the combination of a plunger of external size corresponding to the internal caliber of the neck to be formed, an expansible and contractible die adapted to be expanded to a size corresponding to the internal original caliber of the body to be necked adjacent to the neck, means to insert said plunger and die in and withdraw them from the body to be necked, means to expand and contract said die, a cup-shaped die adapted to slide over the end portion of the body to be necked over said plunger and to contract such portion of the body between itself and the plunger to provide the neck, and means to reciprocate said cup-shaped die, such reciprocation being the only movement of the die during the neck-forming operation.

1,425,295. BEEHIVE FRAME. FREDERICK W. SUMMERFIELD, Toledo, Ohio. Filed Feb. 21, 1921. Serial No. 446,828. 3 Claims. (Cl. 6—10.)

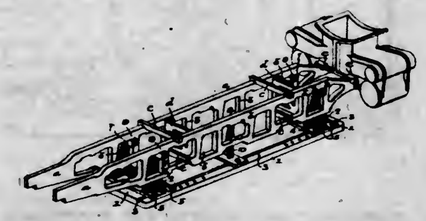


1. In a bee-hive frame consisting of top, bottom and side bars, one of the bars having a T cross section for supporting a comb on the web of the T, the web of the T having cell starting depressions.

2. In a bee-hive frame consisting of top, bottom and side bars, a plurality of the bars having a T cross section for supporting a comb on the web portions of the bars, the webs of the bars having cell starting depressions.

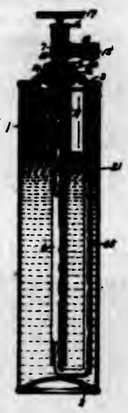
3. In a bee-hive construction a frame having top, bottom and side bars, a bar connecting the top and bottom bars and located between the side bars, the said bars having flanges, combs supported by the bars and secured in position by the flanges the flanges having cell starting depressions.

1,425,296. JIG FOR ASSEMBLING LOCOMOTIVE FRAMES. JOHN P. SYKES, Wallingford, and SAMUEL R. LIMERICK, Philadelphia, Pa., assignors to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 9, 1921. Serial No. 476,183. 7 Claims. (Cl. 29—89.)



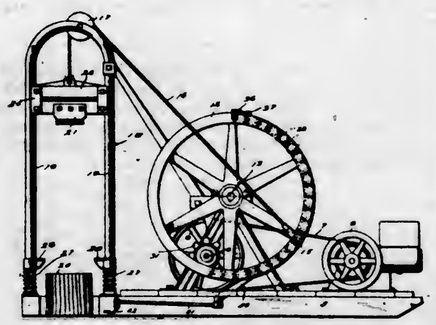
1. The combination in a jig, of a base; saddles mounted on the base, each saddle having two uprights spaced apart, the uprights on one side being arranged to support one side frame of a locomotive, and the uprights on the other side being arranged to support the other side frame of a locomotive and when the two frames are connected together they can be bodily removed from the uprights by a lateral movement.

1,425,297. HAND FIRE EXTINGUISHER. WALTER H. TIBBALS, Syracuse, N. Y. Filed Dec. 17, 1913. Serial No. 807,222. 3 Claims. (Cl. 299—95.)



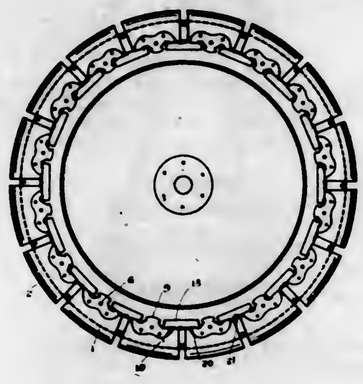
3. In a fire extinguisher of the class described, a receptacle having a delivery passage in one end and a valve therefor, a main tube leading from said passage into the receptacle, an auxiliary tube having a portion thereof extending into the main tube and turnable therein and another portion extending along the outside of the main tube, said auxiliary tube having an independent endwise movement and provided with a valve for alternately closing and opening communication between the main tube and passage as the receptacle is reversed end for end.

1,425,298. WOOD-SPLITTING MACHINE. ARTHUR RALPH TREAT, Gypsum, Kans. Filed July 13, 1921. Serial No. 484,463. 2 Claims. (Cl. 144—193.)



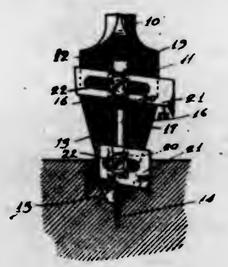
1. A machine comprising a power gear, a mutilated gear having an arcuate series of teeth adapted for engagement with said power gear, a tool having a flexible element connected to said mutilated gear and forming a means whereby to elevate the tool, the line of pull on said flexible element being movable across the axis of said mutilated gear whereby the initial downward movement of said tool moves the arcuate series of teeth into engagement with said power gear, the teeth at one end of said series of teeth being yieldably supported.

1,425,299. TIRE PROTECTOR. GILLES VALIQUETTE, Montreal, Quebec, Canada. Filed Nov. 30, 1921. Serial No. 518,775. 1 Claim. (Cl. 152—16.)



In a tire protector, a fastening for a plurality of tread pieces comprising plates and links, each of said plates having a middle lug with minor guard lugs therefrom and corner lugs inwardly turned at the ends and forming with the said middle lug link recesses, and links each formed of a bent plate having a curved back slotted towards the ends to receive a corner lug in each recess.

1,425,300. COMBINED EXPANSION AND COUNTERBORING BIT. WILLIS F. WALL, Watsonville, Calif. Filed Jan. 25, 1921. Serial No. 439,790. 5 Claims. (Cl. 145—127.)



1. A combined expansion and counterboring bit comprising a semi-conical head provided with a lead screw and a cutting flange; and having a longitudinal groove disposed along the axis of the head; a cutter blade; and means operatively connected to the blade and slidably engaging the slot whereby said cutter blade may be adjusted longitudinally and radially.

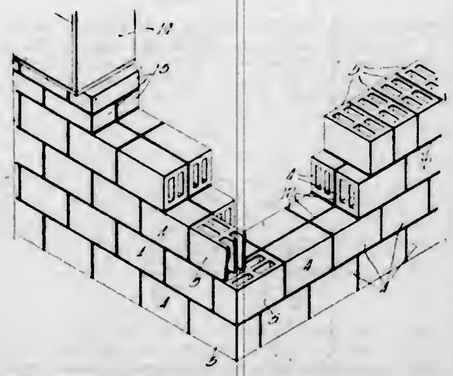
1,425,301. HORSE-BLANKET RETAINER. WETHERELL FRANCIS WARNSFORD, London, England. Filed Feb. 23, 1921. Serial No. 447,251. 1 Claim. (Cl. 54—79.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

A horse blanket retainer, comprising in combination, a median strap adapted to pass between the legs of a horse, a pair of shoulder straps fastened at one end of said median strap, fastening devices carried on the other ends of the shoulder straps for engagement with a blanket, a pair of lateral extensions on the other end of said



median strap and fastening devices carried on the free ends of said lateral extensions for engagement with the blanket.

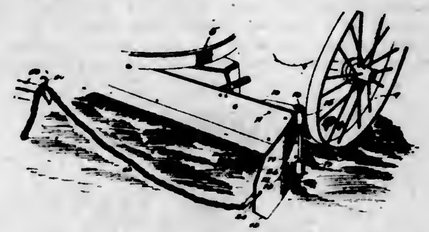
1,425,302. BUILDING BRICK. BERNARD F. WEBER, Chicago, Ill. Filed June 28, 1919, Serial No. 306,086. Renewed May 20, 1922. Serial No. 564,622. 3 Claims. (Cl. 72—41.)



1. A composite wall or the like comprising courses of hollow stretcher bricks with corner hollow header bricks all substantially the same size and binder courses of the hollow header bricks, each stretcher and header brick presenting four plane unbroken surfaces, each stretcher brick having a web extending longitudinally therethrough and each header brick having two transverse webs extending from side to side.

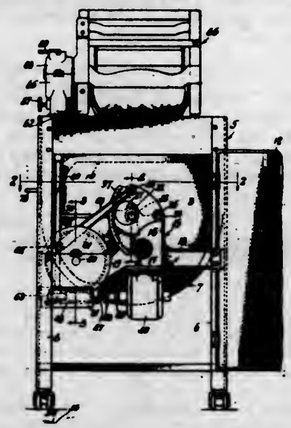
1,425,303. ROAD GRADER. CHARLEY H. WELSH, Norman Township, Grundy County, Ill. Filed July 13, 1921. Serial No. 484,863. 3 Claims. (Cl. 37—7.)

1. An attachment for road graders comprising an attaching plate adapted to be secured to the scraping blade of the grader and having a pair of alined hinge barrels, a wing having a triangular portion bent upon itself and secured to the wing, whereby to form a hinge barrel



alined with said first and second named hinge barrels, and a hinge pin passed through said first and second named hinge barrels.

1,425,304. GEARING. BRUCE CLARK WHITE, New York, N. Y., assignor to Federal Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 5, 1920. Serial No. 379,011. 8 Claims. (Cl. 74—50.)

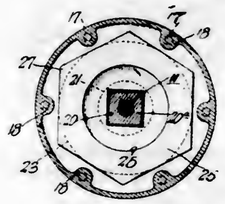


1. In combination with a support, a horizontal operating shaft journaled therein, an externally toothed segmental gear fixed on said operating shaft, an internally toothed segmental gear journaled on an axis at one side of and in substantially the horizontal plane of said operating shaft, a horizontal drive shaft located in a plane below and extending transversely with respect to said operating shaft, a worm connected to said shaft, a worm gear journaled on an axis parallel with but below and spaced on one side of the vertical plane of the operating shaft said worm gear meshing with said worm, and a pitman connecting said worm gear with said internally toothed segmental gear.

1,425,305. FRICTION DRIVE COUPLING. BRUCE CLARK WHITE, New York, N. Y., assignor to Federal Electric Company, Chicago, Ill., a Corporation of Illinois. Filed June 3, 1920. Serial No. 386,268. 3 Claims. (Cl. 64—106.)

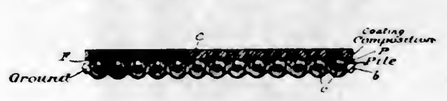
3. A friction drive coupling comprising, in combination with a drive shaft and a driven shaft in line therewith, a casing secured at one end to the drive shaft and open at the other end, a cover fixed to and closing the casing, said cover having a sleeve in which the driven shaft has bearing, a rectangular sleeve fixed to that end of the driven shaft within the casing, said sleeve including a radial flange, a plurality of closely spaced discs arranged

in the casing concentric with the shaft, the alternate discs each being polygonal in outline so that the angles thereof will engage with parts of the casing and be rotated thereby, and each having an enlarged central aperture of a diameter greater than that of the rectangular sleeve so that it may move in any direction in its own plane, the other discs each having a rectangular



opening through which the rectangular sleeve extends so that said discs are non-rotative with respect to the driven shaft, the end disc of said last mentioned discs engaging against the radial flange of said sleeve, and bolts extending through the cover and engaging the outermost polygonal disc, said bolts providing for the adjustment of the spacing between all of the discs.

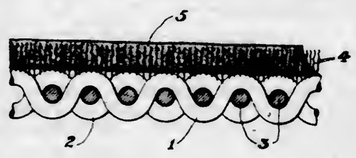
1,425,306. COATED FABRIC AND PROCESS OF MAKING SAME. JOHN A. WILSON, Elizabeth, N. J., assignor to The Duratex Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 12, 1919. Serial No. 344,353. 21 Claims. (Cl. 91—68.)



9. The process of making coated fabrics comprising applying a suitable substantially continuous coating to the pile of a pile fabric so as to cover the surface of said pile and extend substantially to the ground of fabric.

19. A coated fabric comprising a fabric base, a substantially continuous coating, and threads secured in said fabric base and having short free bristling portions extending outwardly from said base and embedded in said coating.

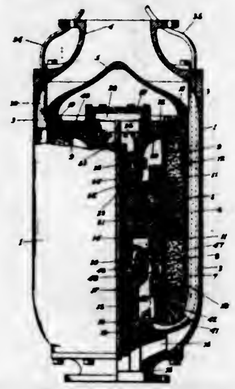
1,425,307. COATED FABRIC AND PROCESS OF MAKING SAME. JOHN A. WILSON, Elizabeth, N. J., assignor to The Duratex Company, Newark, N. J., a Corporation of New Jersey. Original application filed Jan. 12, 1920, Serial No. 350,981. Divided and this application filed July 14, 1921. Serial No. 484,786. 10 Claims. (Cl. 91—68.)



1. A coated fabric comprising a fabric base having a singed nap imbedded in a coating of suitable composition applied thereto.

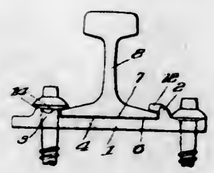
6. The process of making coated fabrics comprising applying a suitable coating to the singed nap of the fabric.

1,425,308. UNIT PUMP AND MOTOR FOR SUBMERGED SERVICE. WALTER R. WOOCK, HERBERT J. WOOCK, and ERIC M. WOOCK, Lodi, Calif., assignors to Superior Manufacturing Company, Lodi, Calif., a Corporation. Filed May 24, 1921. Serial No. 472,281. 7 Claims. (Cl. 103—87.)



1. A pump comprising a casing structure, a driven shaft turnably mounted therein and provided with an impeller member, upper and lower bearings for the shaft, an oil reservoir, a pipe leading therefrom to the upper bearing of the shaft and another pipe leading thereto from the casing below the lower shaft-bearing, and means for maintaining a constant circulation of oil through said pipes.

1,425,309. TIE PLATE. FRANKLIN E. ABBOTT, Buffalo, N. Y., assignor to Lackawanna Steel Company, Lackawanna, N. Y., a Corporation of New York. Filed Mar. 7, 1916, Serial No. 82,635. Renewed Jan. 13, 1922. Serial No. 529,094. 19 Claims. (Cl. 238—304.)

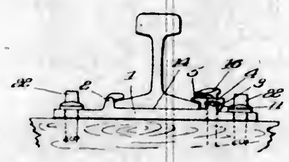


1. A tie-plate for railways comprising a base having a shoulder on its upper surface, said shoulder being provided with a hook adapted to extend over the edge of the rail flange and engage therewith to prevent upward movement of the rail but spaced therefrom slightly, said hook being shorter longitudinally than the tie-plate and having a curved under surface forming a short surface for engagement with the rail.

1,425,310. TIE PLATE. FRANKLIN E. ABBOTT, Buffalo, N. Y., assignor to Lackawanna Steel Company, Lackawanna, N. Y., a Corporation of New York. Original application filed May 26, 1911, Serial No. 629,654. Patent No. 1,178,200, dated Apr. 4, 1916. Divided and this application filed Mar. 10, 1916, Serial No. 83,220. Renewed Jan. 13, 1922. Serial No. 529,095. 14 Claims. (Cl. 238—304.)

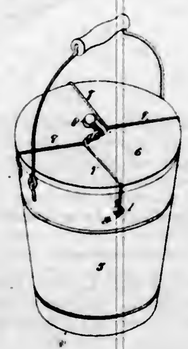
1. A tie-plate comprising a base, parallel shoulders on the upper surface thereof, one shoulder having a hook

adapted to overhang the edge of the rail-flange, the other shoulder having a wider upper portion and a narrower



neck there below, and a separable clip having a groove to fit the second shoulder and a hook to overhang the adjacent flange edge of the rail.

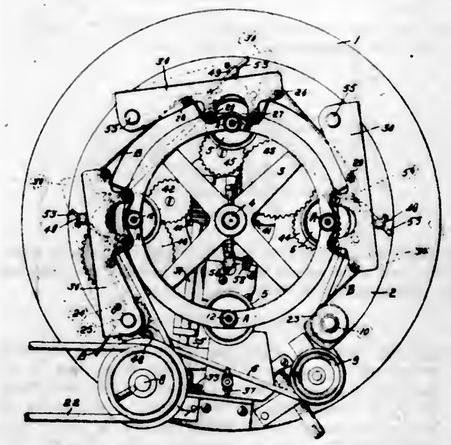
1,425,311. COVER FASTENER FOR SHIPPING PAILS. JULIUS C. ANDERSEN, San Francisco, Calif., assignor to California Barrel Company, San Francisco, Calif., a Corporation of California. Filed Nov. 30, 1921. Serial No. 518,858. 2 Claims. (Cl. 217—89.)



1. In combination with a shipping pail, of securing wires for holding the cover of the pail against removal during transit, fastening means comprising an enlarged head having a shank bifurcated to form projected uniting members of a length adapted to project beyond the inner surface of a stave for upsetting purposes, said means embracing and holding the terminal end of the securing wires of the pail and adapted to be driven into the pail substantially flush with the outer surface thereof for embedding the terminal end portion of the securing wires in the staves of the pail, and sealing means for uniting the securing wires one to the other.

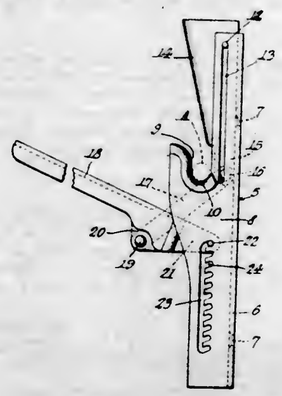
1,425,312. STRIPING MACHINE. HRANT G. ANTARAMIAN, Kenosha, Wis. Filed Sept. 9, 1920. Serial No. 409,119. 5 Claims. (Cl. 51—145.)

1. In combination, a rotatable table, a plurality of rotatable work supports mounted on said table, means for yieldingly holding a strip of abrading material against pieces of work in said holders, mechanism for moving said strip away from and then toward the work, and other mechanism co-ordinated with the aforesaid mechanism to rotate the table through an angular distance



corresponding to the angular distance between two consecutive holders while the strip is being held clear of the work.

1,425,313. CLAMPING DEVICE FOR CLOTHESLINES. CHARLES L. BARTHOLOME, Terre Haute, Ind. Filed May 6, 1922. Serial No. 558,971. 4 Claims. (Cl. 24—136.)

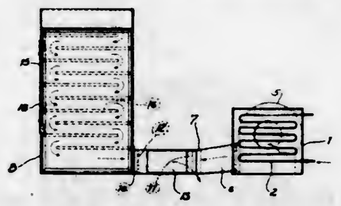


1. A rope clamping device comprising a body portion having stationary jaws, a wedge element movable longitudinally of the body portion toward and away from the jaws, and means to move the wedge element, said means comprising a pivoted lever adjustably mounted upon the body portion to be shifted longitudinally thereof, and a link connecting the lever and the wedge element.

1,425,314. CABINET DRIER. HARRY BENTZ, Montclair, N. J. Filed Apr. 6, 1921. Serial No. 458,983. 4 Claims. (Cl. 34—39.)

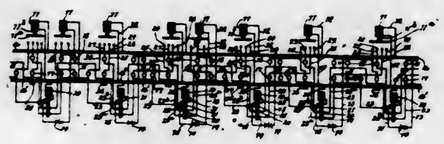
1. A drying apparatus comprising in combination a cabinet having a partition forming two ajacent passage ways within the cabinet connected in series, means for supporting material to be dried within said passageways, means for forcing drying gas through said cabinet, and

means for reversing the flow of gas in said passageways, said means comprising a chamber communicating with both said passageways at the same end, said chamber



having outlet apertures therein, closures for said apertures, and valve means within said chamber for changing the passageway into which the air flows.

1,425,315. TRACK CIRCUIT FOR TRAIN-CONTROL SYSTEMS. CHARLES W. BREWSTER, New York, N. Y., assignor to Brewster Train Control Co. Inc., New York, N. Y., a Corporation of New York. Continuation of application Serial No. 70,579, filed Jan. 6, 1916. This application filed Dec. 6, 1916, Serial No. 135,286. Renewed July 17, 1918. Serial No. 245,405. 30 Claims. (Cl. 246—63.)



27. A train signal and control mechanism embodying a plurality of series of track magnets included in circuit with a source of energy and affording a plurality of magnetic fields extending within a succession of blocks, combined with vehicle carried means movable within the magnetic fields afforded by said track magnets.

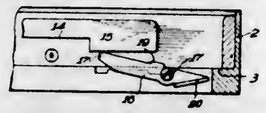
1,425,316. MULTIPLE CONTROL MECHANISM. LAWRENCE R. BUCKENDALE, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Oct. 14, 1919. Serial No. 330,672. 14 Claims. (Cl. 180—17.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A control mechanism for a tracklaying tractor, comprising two separate speed changing controlling units, each unit operated by a shifting lever, a track brake control connected to both of said levers, and a single foot pedal for operating said track brake control, said connection displaced by the shifting of the lever from neutral to prevent application of braking pressure on the mechanism controlled by such lever.

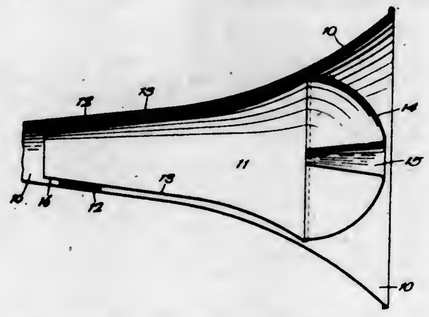
1,425,317. JEWELRY TRAY. CHARLES E. CHAPMAN, Chicago, Ill. Filed Aug. 26, 1921. Serial No. 495,578. 5 Claims. (Cl. 211—28.)

2. In combination, a tray comprising a frame, shelves pivoted therein, a common connecting element pivotally connecting said shelves, a portion of the under side of said common connecting element being provided with teeth, a pivotally mounted locking member disposed on



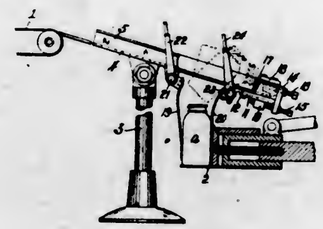
said tray and adjacent ot said toothed portion, and means for holding said locking member in engagement with said toothed portion.

1,425,318. MUTE FOR MUSICAL INSTRUMENTS. ERNST A. COUTURIER, Laporte, Ind. Filed May 14, 1921. Serial No. 469,548. 5 Claims. (Cl. 84—400.)



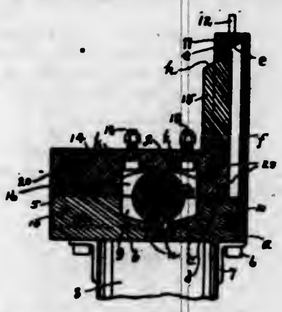
1. In a mute, the combination with a bell-shaped tubular body portion, of an outwardly convexed hemispherical closure for the larger end thereof, and a re-entrant sound delivery tube intersecting the center of said closure and tapering inwardly therefrom, the inner end of said tube terminating in the plane of the maximum diameter of said body portion.

1,425,319. ARTICLE SETTING-UP MEANS. FRED W. DANBERG, Toledo, Ohio. Original application filed Dec. 22, 1919. Serial No. 346,737. Divided and this application filed Jan. 17, 1921. Serial No. 437,699. 7 Claims. (Cl. 193—27.)



1. In an article setting-up means, an inclined trough-like member having an opening intermediate its ends over which an article jumps in sliding down the incline, and a bumper disposed at the forward end of the member in position to stop the forward movement of an article with the center of gravity of the article disposed at the rear of the forward side of said opening whereby the article may be toppled by gravity rearwardly down through the opening and be delivered in upright position to a subjacent surface.

1,425,320. BRIDGE SHOE. ROBERT Z. DRAKE, Omaha, Nebr. Filed Nov. 12, 1921. Serial No. 514,545. 6 Claims. (Cl. 14—16.)



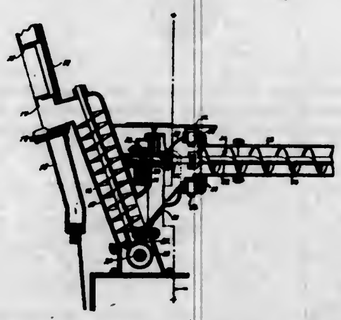
1. In a shoe for the purposes described, a stationary block having a recess and provided with an upright casing, a second block movably disposed upon and having a recess opening on the recess of the stationary block and also having an upright locking-plate engaging in said casing, and a roller disposed in the recesses of said blocks.

1,425,321. REAR SIGHT FOR RIFLES AND LIKE SMALL ARMS. HARRY REGINALD LEYCESTER ETHERINGTON, Pinner, England. Filed Jan. 21, 1922. Serial No. 530,962. 9 Claims. (Cl. 33—53.)



1. A rear sight for rifles and like small arms comprising a body part fixed to the stock of the rifle against either vertical or lateral movement relative to said stock, a pair of slotted elements adapted to slide at a suitable angle to one another in said body part, and means for imparting a sliding movement to said slotted elements independently of one another.

1,425,322. LOCOMOTIVE STOKER. ROBERT E. JACKSON, Princeton, W. Va., and BIRD O. YEARWOOD, Toccoa, Ga., assignors to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Dec. 2, 1920. Serial No. 427,800. 4 Claims. (Cl. 110—104.)



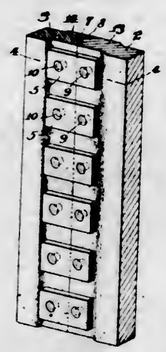
1. A locomotive stoker comprising, in combination, a fuel elevator comprising a conduit having upwardly diverging walls, an elevating member in said conduit, and means to scatter the loose fuel delivered by said elevator within a fire-box.

1,425,323. PENCIL. FREDERICK H. KAY, Chicago, Ill. Filed June 2, 1921. Serial No. 474,395. 6 Claims. (Cl. 120—19.)



4. A pencil having in its body a bore, the rear end of which is closed, an impeller freely slidable within the bore, a block and a lead, all slidingly arranged within the bore in the order named, the lead being at the open end of the bore, and means associated with the block for preventing its movement in a rearward direction whereby the impeller may move the lead through the medium of the block by impact in a forward direction only, substantially as described.

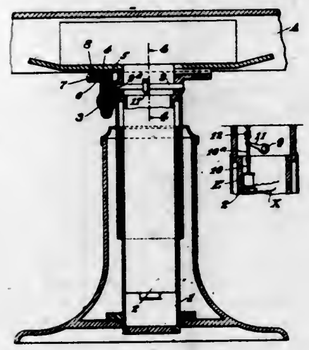
1,425,324. SAFE OR VAULT WALL. ANTHONY KENNEDY, Drexel Hill, Pa., assignor to The Hollar Company, Philadelphia, Pa., a Corporation of New York. Filed Nov. 15, 1918. Serial No. 262,636. 1 Claim. (Cl. 109—1.)



A safe or vault wall comprising two wall plates formed of unmachinable metal and having contacting edge portions, the edge portion of one plate having a longitudinally extending rib projecting into a longitudinally extending groove in the edge portion of the other plate and preventing lateral separation of the plates, and a connecting plate arranged against the inner surfaces of

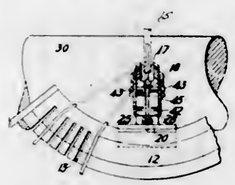
the wall plates and crossing the joint between them, the connecting plate being secured to the wall plates by studs formed integral with the wall plates and riveted in holes in the connecting plate and preventing edgewise separation of the wall plates.

1,425,325. RECLINING-BAR CLAMP FOR BARBERS' CHAIRS. WALTER F. KOKEN, St. Louis, Mo. Filed Dec. 13, 1920. Serial No. 430,389. 1 Claim. (Cl. 155—25.)



A barber's chair or the like provided with a stem, an adjustable back and an adjustable apron connected so as to move in unison, a reclining bar for controlling the position of said back and apron, a spring pressed clamp for holding said reclining bar in adjusted position, a horizontally-disposed rock shaft journaled in the stem of the chair, co-operating means on said rock shaft and clamp for releasing the clamp when said shaft rocks in one direction, an arm on said rock shaft, a spring that co-operates with said arm to normally hold said rock shaft in a position wherein it has no effect on said clamp, and an electro magnet arranged inside of the stem of the chair and operatively connected with the arm on said rock shaft for moving said shaft in a direction to cause it to release the reclining bar clamp.

1,425,326. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 10, 1920. Serial No. 409,323. 17 Claims. (Cl. 197—43.)

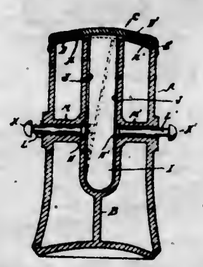


1. A type-guide for the types of a typewriting machine, forming a new article of manufacture and comprising a base or attaching portion, a central pair of spaced jaws rising therefrom and forming a central guide-slot, two lateral pairs of spaced jaws carried by the respective jaws of said central pair of jaws and forming lateral guide-slots disposed at a radial angle to the central guide-slot and to each other, and separate means for independently relatively adjusting the jaws of each pair of jaws to vary the width of each of the guide-slots.

1,425,327. FLOTATION PROCESS. ROTER LUCKENBACH, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif., a Corporation of Nevada. Filed Feb. 9, 1920. Serial No. 357,355. 5 Claims. (Cl. 83—85.)

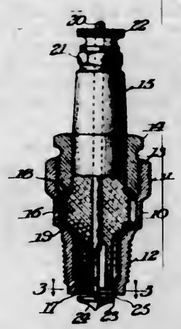
1. The process of concentrating ore by flotation, which comprises adding greasetar product of the distillation of greasewood to the pulp, aerating the pulp to form a froth, and separating the froth from the pulp.

1,425,328. CONDIMENT HOLDER. JOSEPH L. MEDICI and CHARLES O. MEDICI, Detroit, Mich. Filed Feb. 14, 1921. Serial No. 444,798. 5 Claims. (Cl. 65—45.)



5. A condiment holder, comprising a casing having a partition for dividing the same into a plurality of compartments, a cover having perforated portions arranged above the respective compartments, valves adjacent to said cover for the respective compartments, and a member provided with substantially parallel resilient integral arms secured to said valves for separately operating each in both directions of movement.

1,425,329. SPARK PLUG. ADOLPH A. MELLBLOM, Chicago, Ill. Filed Aug. 26, 1918. Serial No. 251,370. 1 Claim. (Cl. 123—168.)

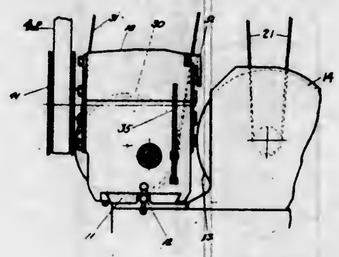


A spark plug having a shell and an electrode having a member secured thereto, said member being arranged with respect to the shell to permit a spark to occur between it and the shell, said member having a concave conoidal deflecting surface.

1,425,330. ALLOY. SVEND M. MEYER and WILLIAM JAMES, Brooklyn, N. Y., assignors to Magno Storage Battery Corporation, New York, N. Y., a Corporation of Delaware. Filed June 23, 1921. Serial No. 479,801. 1 Claim. (Cl. 75—1.)

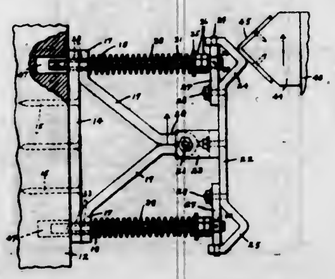
An alloy comprising, as essential ingredients, in the neighborhood of 50% tin, 25% lead, 17% zinc and 8% antimony.

1,425,331. GRINDING MACHINE. CHARLES W. OLSON, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Feb. 16, 1920. Serial No. 358,986. 8 Claims. (Cl. 51—237.)



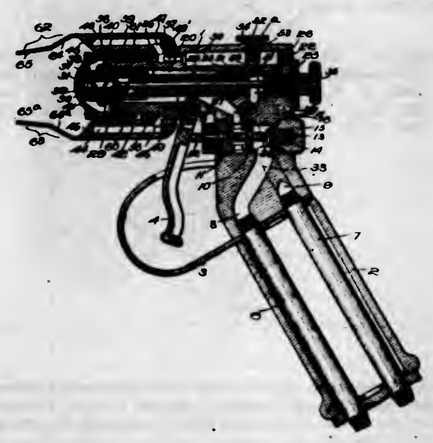
1. In a device of the class described, the combination of a grinding wheel, a revolving head, spring collets carried by said head and movable with said head past the grinding surface of said wheel, devices carried by said head for holding said collets in clamping position during the grinding operation, means actuated by rotation of said head for moving said collets to releasing position after passing the grinding position, rotatable spindles carried by said head and containing said collets, and means for rotating said spindles and collets, said spindle rotating means comprising a gear carried by each spindle, a central shaft and a gear carried by said shaft meshing with the gears on said spindles, the axes of said collets being parallel with said central shaft.

1,425,332. GATE LIFTING AND RELEASING MECHANISM FOR ELEVATORS. ALDEN H. PACKARD, Woburn, Mass., assignor of one-half to J. Donald Robbins, Boston, Mass. Filed Aug. 22, 1921. Serial No. 494,046. 5 Claims. (Cl. 187—62.)



1. A gate lifting and releasing attachment for elevators, comprising a holder having means for rigid attachment to an elevator, a tilting head, a hinge connection between the holder and head permitting the holder to tilt on a substantially horizontal axis, the head being provided at opposite end portions with V-shaped strikers arranged in tandem order, one above and the other below said hinge connection, and means for yieldingly maintaining the head with its strikers in vertical alinement with each other, the upper striker being adapted to engage a projection on a gate and lift the latter when the elevator is ascending, the upper and lower strikers being adapted to be successively displaced by said projection when the elevator is ascending and the raised gate is arrested, and the lower and upper striker being successively displaceable by the projection when the elevator is descending and the gate is closed.

1,425,333. METHOD OF AND APPARATUS FOR APPLYING COATING. LEE H. PARKER, Boston, and HERBERT W. DAY, Wollaston, Mass., assignors to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 9, 1920. Serial No. 415,737. 8 Claims. (Cl. 91—45.)



1. Means for applying coating comprising means to supply coating material, means to subject the same to the action of compressed air, thereby effecting the discharge of the coating material, means to discharge compressed air supplementally upon the discharged coating material at opposite sides of the discharge of coating material, thereby reducing said discharge of coating material to sheet form flaring from the point of discharge therefrom and unconfined at its edges, and means whereby the supplementally discharged air is itself reduced to sheet form flaring from its points of discharge and unconfined from the edges thereof, so as to constitute substantially coincidentally flaring, air-wall sheets for the said flaring sheet of discharged coating material.

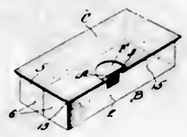
1,425,334. TRACTION WHEEL. URBANO PEDROARENA and GEORGE C. HOFFMAN, Gardnerville, Nev. Filed May 9, 1922. Serial No. 559,521. 3 Claims. (Cl. 301—41.)



2. A wheel tire device comprising an annular member adapted to be engaged upon the rim of a wheel, coacting

outer annular members in spaced relation and spaced from the inner annular member, a plurality of bracket devices each including a bearing portion having outstanding attachment flanges adapted to be connected to the outer annular members to dispose the bearing portions within the lines of the outer annular members, and an endless member engaging over the bearing portions of the brackets and held from lateral displacement by the attaching flanges.

1,425,335. CARTON. JONATHAN PETERSON, Brooklyn, N. Y., assignor to Combination Machine Company, New York, N. Y., a Corporation of Delaware. Filed Jan 28, 1921. Serial No. 440,587. 15 Claims. (Cl 229—43.)



1. A container of relatively thin and flexible fibrous sheet material, comprising a body and a cover, marginal portions of the cover being secured to marginal portions of the body and the combined marginal portions being adhesively secured against adjacent wall portions of the body.

1,425,336. TASSEL. FREDERIC P. PREVOT, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 13, 1922. Serial No. 543,393. 3 Claims. (Cl. 16—122.)



1. A bead chain tassel comprising a tassel head and a tassel group of pendant lengths of bead chain supported thereby, said tassel head comprising a bottom member marginally notched around its periphery to receive the links between adjacent beads at the upper attaching ends of the tassel chains, a centrally apertured cap member resting on said bottom member and serving to confine the chain links in said notches, a tubular element associated with said bottom member and passing upward through the cap member and having its upper end spun over the cap member to hold the latter in position on the bottom member, said tubular member affording a way for a suspension element passing downward therethrough and freely engaging beneath the bottom member to support the tassel.

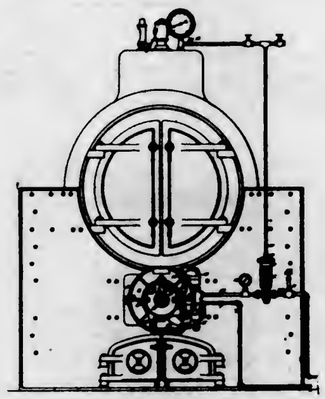
1,425,337. ICE-CREAM REMOVER. JOHN PRISKEY, Detroit, Mich. Filed Oct. 10, 1919. Serial No. 329,875. 3 Claims. (Cl. 107—8.)

1. In a device for blowing molded articles from molds having apertures in their bottoms, the combination with a valve controlled member freely movable laterally and vertically to different positions in a horizontal plane into registration with an aperture in a mold and adapted to conduct air under pressure, of means for sealing the



space between said valve controlled member and the bottom of said mold around said aperture.

1,425,338. HIGH-PRESSURE AUTOMATIC BURNER GOVERNOR. WILLIAM R. RAY, San Francisco, Calif. Filed Jan. 23, 1920, Serial No. 353,478. Renewed Jan. 18, 1922. Serial No. 530,230. 13 Claims. (Cl. 158—45.5.)

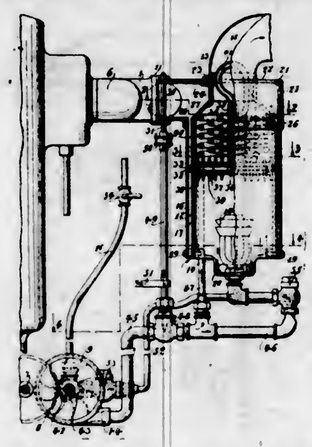


1. The combination with an oil burner and a pump for delivering oil thereto, of an oil delivery and return pipe line connected with the pump and the burner, a valve on the return line adapted to open or close the flow of oil therethrough and a by-pass valve cooperating therewith for maintaining a back pressure on the return line when the valve is closed.

1,425,339. CARBURETOR. ENOCH RECTOR, New York, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed Oct. 16, 1916. Serial No. 125,795. 32 Claims. (Cl. 123—122.)

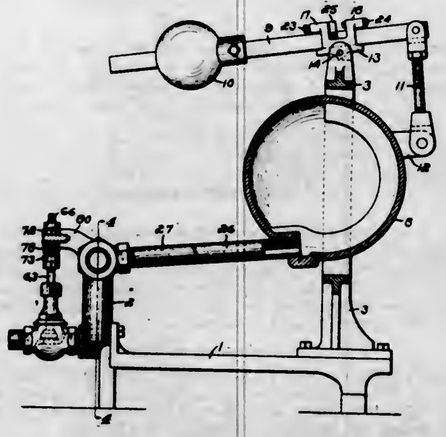
1. In a device of the class described, an internal combustion engine, a passageway leading to the engine, a carburetor including a nozzle for ejecting fuel into said

passageway, a conduit for supplying the fuel to said nozzle, a supply pipe leading to said conduit, means for heating said conduit to vaporize the fuel before it is ejected and for heating said passageway and means lead-



ing from the supply pipe and in advance of the heated conduit for diverting some of the fuel to said heating means, a pump driven from the engine for maintaining a pressure in said conduit.

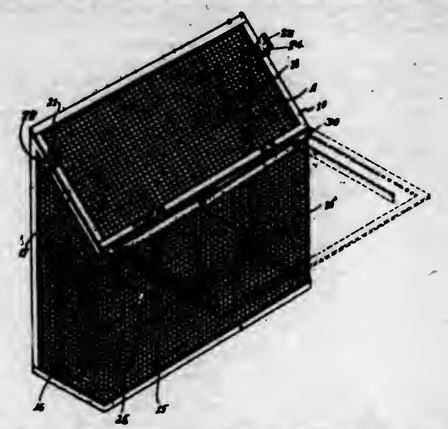
1,425,340. STEAM TRAP. JOHN SABIN, Nashua, N. H., assignor to Nashua Machine Company, Inc., Nashua, N. H., a Corporation of New Hampshire. Filed Feb. 9, 1921. Serial No. 443,670. 18 Claims. (Cl. 137—101.)



1. A steam trap comprising a movable bowl, a tilting lever therefor, and a movable sleeve for said lever in which the latter has capacity for longitudinal movement.

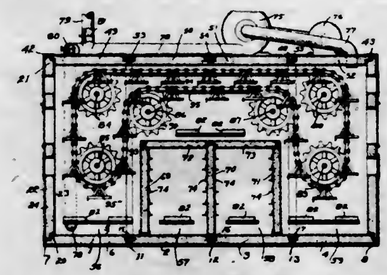
1,425,341. FIRE SCREEN. JAMES E. SANDERS, Gordon, Ga. Filed June 6, 1921. Serial No. 475,547. 2 Claims. (Cl. 126—202.)

1. In a fire screen for open fireplaces, a body including an open mesh front wall and a top wall, means hingedly securing the inner edge of the top wall to the upper edge of the front wall, supporting arms hingedly secured to the front wall adjacent to the upper edge thereof for movement toward the open mesh front wall for holding articles to be dried in close proximity thereto and for movement away from the front wall for holding the top



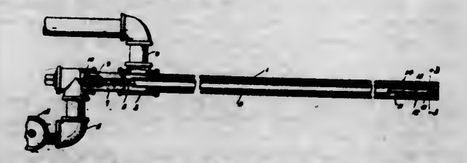
wall in a horizontal plane whereby articles to be heated can be disposed thereon.

1,425,342. BAKER'S OVEN. WILLIAM F. SCHALLER, San Francisco, Calif. Filed Feb. 19, 1920. Serial No. 359,767. 2 Claims. (Cl. 107—57.)



1. A bakers oven comprising a plurality of slabs joined to form a rectangular enclosure, a plurality of heating elements for heating the enclosure, a fan for circulating air in the oven, a plurality of superposed doors at opposite ends of the oven, a pair of endless chains extending from one end of the enclosure to the other, trays supported by the chains, the chains being arranged to form depending loops at the ends of the oven whereby a plurality of trays may be inspected through the doors at one time means to operate the chains to cause the travel of the material being baked from one end of the oven to the other, a cake oven having walls between the depending loops of the bread carrying chains, doors at the sides of the rectangular enclosure to fill the cake oven, and means to heat the cake oven.

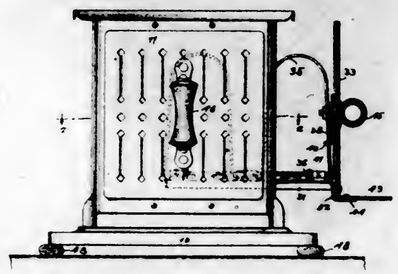
1,425,343. OIL OR GAS BURNER. ALFRED G. SCHUMANN, Baltimore, Md. Filed Apr. 14, 1921. Serial No. 461,299. 6 Claims. (Cl. 158—77.)



1. A burner of the character specified comprising a nozzle having a central bore closed at its outer end, and

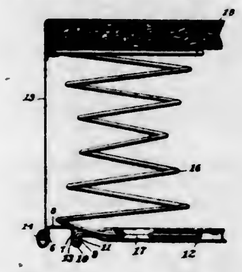
having longitudinal ports exterior to the central bore constricted intermediate their ends, and having openings connecting the bore with the constricted portions of the ports.

1,425,344. ELECTRIC TOASTER. EDWARD SCHWARTZ, New York, N. Y., assignor to Manhattan Electrical Supply Company, Inc., New York, N. Y., a Corporation of Massachusetts. Filed June 30, 1919. Serial No. 307,614. 6 Claims. (Cl. 219—19.)



1. An electric toaster comprising a pair of upright, laterally spaced, resistance units arranged in vertical zigzag, and means for removably supporting on edge between the same a piece of bread, the upper portions of said resistance units being spaced further apart than the lower portions thereof for the purpose specified.

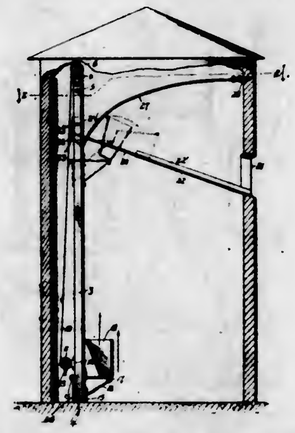
1,425,345. SPRING STRUCTURE. WATSON R. SMITH, Jackson, Mich. Filed Jan. 18, 1922. Serial No. 530,044. 2 Claims. (Cl. 155—180.)



1. In a spring structure, a base frame including spaced inner and outer substantially vertical parallel walls having a connecting web between them, the walls being of substantially the same width and arranged in horizontal alinement, each wall at its lower edge having a flange cooperating with the respective wall to form a groove, said grooves being arranged in horizontal alinement, spring supporting bars having their ends provided with hooks engaging in the groove adjacent the inner wall, springs mounted on said bars, and an upholstering covering for the structure, including a skirt having its marginal edge disposed in the groove adjacent the outer wall, the flange adjacent the outer wall being bendable inwardly toward the outer wall onto the skirt to secure the marginal edge of the latter to the base frame.

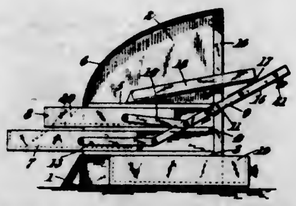
1,425,346. SILO. OLE A. STOEN, Balsam Lake, Wis. Filed Sept. 2, 1920. Serial No. 407,821. 5 Claims. (Cl. 214—17.)

1. The combination with a silo having an opening in one side adjacent to the top, of an upright guide positioned within the silo at the side opposite the opening, spaced inclined bars extending from the opening to the guide, a chute supported by the bars and extending from the opening but stopping short of the guide, a carriage mounted to travel along the guide, means to apply



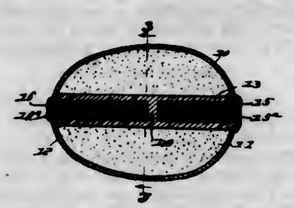
power to move the carriage, a bucket seated upon the carriage and proportioned to pass between the bars at the end of the chute, and a cam positioned to overturn the bucket upon the chute while between the bars.

1,425,347. SHOWCASE. GEORGE STRONG, London, England, assignor, by mesne assignments, to Joseph Dixon Crucible Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 19, 1921. Serial No. 485,863. 4 Claims. (Cl. 211—25.)



1. A display case comprising in combination a body, a pair of levers of the first order fulcrumed one on each side of the body, a drawer connected by links to each lever on one side of the fulcrum, a cross member carried on the levers on the other side of the fulcrum, and a tray hinged to said cross member.

1,425,348. VERMIN-DESTROYING NEST EGG. EDWIN T. STUART, West Fork, Ark., assignor of one-half to Charles R. Cauhn, West Fork, Ark. Filed Apr. 11, 1922. Serial No. 551,574. 1 Claim. (Cl. 119—46.)



A nest egg having a hollow shell for the reception of a powdered filler and provided with perforations for distributing the same, and a tubular receptacle extending longitudinally through the shell and having open ends for the reception of medicated fillers, the receptacle being provided with an intermediate partition to form separate compartments respectively accessible through opposite ends of the tube.

1,425,349. BOTTLE CLOSURE. THOMAS LUCIEN TALIAFERRO, Chicago, Ill. Filed June 16, 1919. Serial No. 304,485. 2 Claims. (Cl. 215—40.)



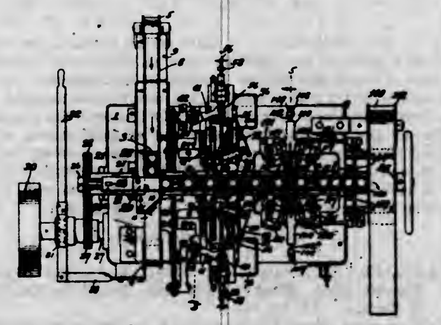
1. A bottle closure comprising a metal cap portion having a depending flange, and a plastic rubber sealing member forming a permanent part of the closure and having a ring-shaped portion at its outer edge seating against the lip of the bottle, and a relatively thin portion spanning the mouth of the bottle and preventing the contents of the bottle from coming in contact with the metal parts of the cap.

1,425,350. SHEET-FEEDING METHOD AND MEANS. JAMES C. THOM, Chicago, Ill., assignor to Combination Machine Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 14, 1921. Serial No. 452,391. 25 Claims. (Cl. 271—32.)



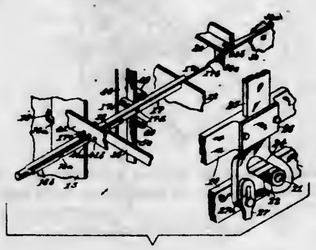
1. A stack of labels comprising a series of individual labels of varying dimensions, the labels being provided with registering cut out portions in the edges thereof, the registering cut out portions defining a guide channel means, the distance, in any one label, between the bottom of a cut out portion in a label edge and a predetermined point in an opposed label edge being less than the distance between the corresponding label edges in a label of smallest dimensions in the stack.

1,425,351. LABELING MACHINE. CHARLES S. WEEKS, South Orange, N. J. Filed Sept. 14, 1921. Serial No. 500,564. 60 Claims. (Cl. 216—12.)



1. In a labeling machine, label-applying means, article feeding means co-operable with said label-applying means, and label wiping means including a plurality of wiping rolls pivotally supported for movement in paths conforming to the contour of the article to be labeled, said label-applying means being operable independently of said label wiping means and said label-applying means operating to apply a label to an article at a different station from the station at which the label wiping means acts upon the article.

1,425,352. VOTING MACHINE. ENOS B. WILLIX, Mount Vernon, Iowa. Filed Dec. 6, 1920. Serial No. 428,474. 12 Claims. (Cl. 235—55.)



1. In a voting machine having vote-keys slidable to voting position, with projections on their shanks, a series of lock-bars slidable normally behind said projections, and notched to permit the movement of a row of straight-ticket keys while all the other keys are locked.

1,425,353. MOTOR-FRICTION PHONOGRAPH MECHANISM. EDWARD W. WINSLOW, Belle Plaine, Iowa. Filed Apr. 6, 1921. Serial No. 459,076. 19 Claims. (Cl. 192—116.)

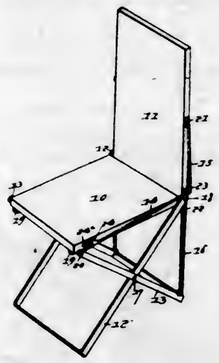


1. Phonograph mechanism including a vertical spindle arranged to support a turn table, a combined friction and brake wheel connected with the spindle for rotating the same, driving mechanism having an adjustable friction pinion engaging the said wheel, a brake element arranged to engage the combined friction and brake wheel, and means for moving the brake element and the friction pinion simultaneously to engage one with the friction and brake wheel and move the other out of engagement therewith to start or stop the spindle.

1,425,354. CONVERTIBLE CHAIR AND TABLE. TILLMAN B. WORTHINGTON, Scotland, Pa., assignor of one-half to Anna Morton Bambrick, Scotland, Pa. Filed Jan. 3, 1922. Serial No. 526,645. 5 Claims. (Cl. 155—43.)

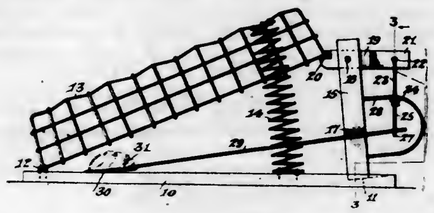
1. A convertible table and chair having seat and back sections of which the latter is longer than the former, pivotally connected intersecting leg frames of which one is pivoted to the seat section and the other is adapted for detachable engagement therewith, links connecting intermediate points of the side edges of the back section

with the upper end of the second-named leg frame, and swinging brace loops carried by the back section for



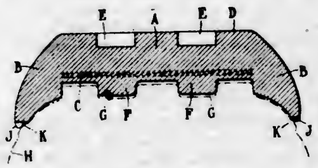
arrangement in bearing contact with the seat section to support the back section in parallelism with the seat section.

1,425,355. ANIMAL TRAP. TSNNEJIRO YAMASAKI, San Francisco, Calif. Filed Jan. 16, 1922. Serial No. 529,428. 2 Claims. (Cl. 43—62.)



1. An animal trap comprising a base support, a cage hinged at one end to the base, a standard bearing on the base and having a stop extending therefrom and an intermediate stop shoulder, a latch member pivoted intermediate the ends to the standard and adapted to engage the free end of the cage when elevated, a trip member adapted to engage the stop of the standard, means for movably coupling the trip member to the latch member, and a bait carrying member bearing beneath said stop shoulder and engaged by the free end of the trip member.

1,425,356. TREAD BAND FOR PNEUMATIC TIRES. GEORGE HENRY ALLDEN, Folkestone, England. Filed May 14, 1921. Serial No. 469,470. 3 Claims. (Cl. 152—16.)



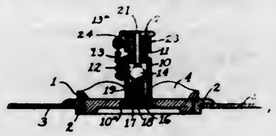
3. The combination in a pneumatic tire, of a cover and a tread band having interengaging projections and depressions, which are of V-shape, and are separate from each other and comprise lateral surfaces lying in planes perpendicular to the axis of the tire, a reinforcing band of non-elastic material incorporated circumferentially in the tread band, the tread band having continuous lateral circumferential surfaces facing inwardly and lying in planes substantially perpendicular to the axis of the tire, and the cover having continuous circumferential surfaces corresponding to and engaging with the circumferential surfaces on the tread band, said tread band and tire cover being provided, respectively, with marks registering with each other when the interengaging projections and depressions are in register with each other.

1,425,357. MARKING HAMMER. ALFRED J. ASELIN, Bay City, Mich. Filed July 22, 1921. Serial No. 486,732. 1 Claim. (Cl. 101—29.)



A marking hammer of the class described comprising a hammer body open at its front and rear sides and provided with an opening therethrough communicating with the interior of the body, a stationary axle and independently rotatable marking discs carried thereby between the side walls, said discs having spaced notches on their outer peripheries and adapted to extend below the striking face of said head and independently slidable locking elements engaging said notches in the discs whereby the same may be kept in various arbitrary positions.

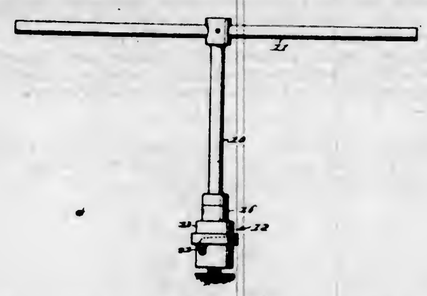
1,425,358. AIR VALVE FOR FUEL TANKS. JACOB A. BAER, Honesdale, Pa. Filed May 10, 1920. Serial No. 380,288. 6 Claims. (Cl. 251—3.)



1. The combination of a valve casing having a counterbored passage therethrough, and an exteriorly threaded end, a valve seat at the junction of the bore and counterbore and a check valve in the counterbore adapted to close against said seat, an interiorly threaded cap adapted to fit the exteriorly threaded end of said casing, said cap having a tube, open from end to end, secured thereto, and adapted to snugly fit the bore or smaller portion of said passage and to press the valve from its seat, said tube having a longitudinal slit in its lower end.

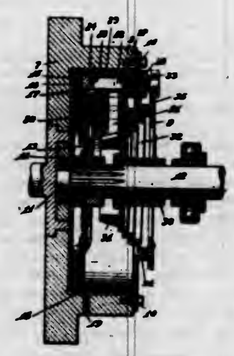
1,425,359. STUD DRIVER. CHARLES ARTHUR BARRY, Detroit, Mich. Filed Dec. 21, 1920. Serial No. 432,249. 5 Claims. (Cl. 81—53.)

1. A stud driver having a chuck consisting of a sleeve provided with cam slots and a conical bearing surface and a core provided with complemental conical bearing surfaces co-acting with that of the sleeve, said core being of transversely sectional construction, and a cross



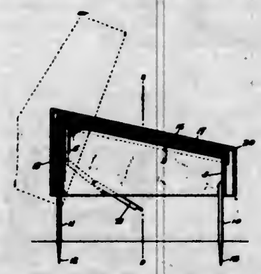
pin carrying the sections of the core and engaged with the cam slots in the sleeve.

1,425,360. CLUTCH. VINCENT BENDIX, Chicago, Ill., assignor to Bendix Engineering Works, Inc., Chicago, Ill. Filed Dec. 3, 1919. Serial No. 344,173. 5 Claims. (Cl. 192—68.)



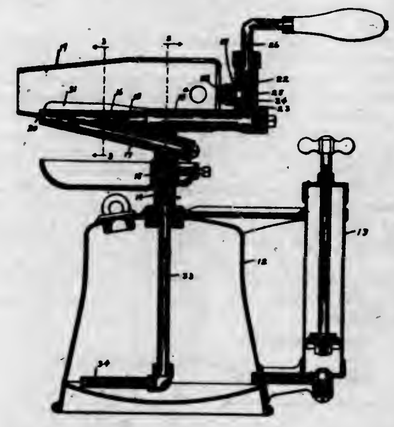
1. A clutch comprising cooperating friction clutching members, and pressure means including radially endwise shiftable elements carrying transversely shiftable cross heads having an angular surface slidably engaging angular surfaces on one of said members for imparting thrust to said member to effect a clutching engagement between said members.

1,425,361. GRAVE MARKER. VICTOR BERGUD, Pelican Rapids, Minn. Filed Aug. 11, 1921. Serial No. 491,549. 4 Claims. (Cl. 189—213.)



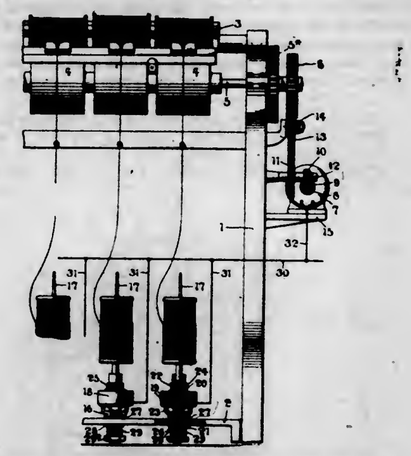
1. A marker of the class described comprising an inner casing, supporting standards attached to said casing, a frame superposed on the top of said casing and an outer protecting cover for said casing and frame.

1,425,362. BLOWTORCH. FORREST E. BINGHAM, New Bedford, Mass. Filed May 19, 1921. Serial No. 470,839. 4 Claims. (Cl. 158—33.)



1. A blow torch comprising a fuel tank; a substantially T-shaped conduit including an upright shank portion fixed to the tank and having a vertical bore, and a substantially horizontal head portion constituting a gas producer, arranged substantially at right angles with the shank portion, and having an angular bore and upwardly projecting fins; and a substantially horizontal combustion chamber having a longitudinal opening in its lower side, occupied by a part of the head portion and by said fins, the longitudinal axis of the chamber being above said head portion so that the latter and the fins are heated by flame in the combustion chamber, to vaporize liquid flowing through said angular bore without objectionably obstructing the path of the flame.

1,425,363. SPINNING MACHINE. EDWARD E. BRADLEY, Stonington, Conn., assignor to The Atwood Machine Company, Stonington, Conn., a Corporation of New Jersey. Filed Jan. 25, 1919. Serial No. 273,088. 1 Claim. (Cl. 118—43.)

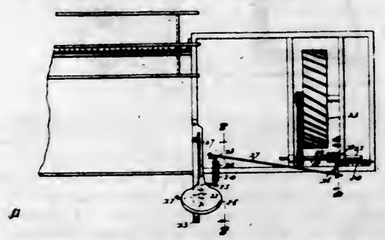


In a spinning machine, individual electric motor driven spindles, means coacting with said spindles for self balancing them, and electric motor driven feed rolls, the motors for the spindles and feed rolls being synchronised.

1,425,364. TREATMENT OF CELLULOSE ACETATE PRODUCTS. JOHN FREDERICK BRIGGS, Spondon, near Derby, England, assignor to American Cellulose and Chemical Manufacturing Company Limited, a Corporation of Delaware. Filed Apr. 16, 1921. Serial No. 461,978. 12 Claims. (Cl. 8—5.)

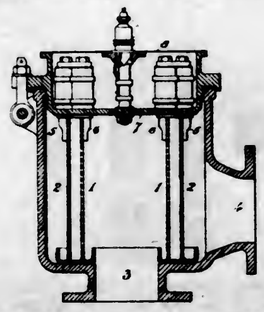
4. Process for the treatment of threads or filaments of cellulose acetate lower than triacetyl cellulose, or of fabrics of or containing the same, said process consisting in subjecting said goods in an aqueous bath to saponification at a temperature between about 70° and about 75° C. with a quantity of alkaline saponifying agent capable only of effecting by its exhaustion an amount of saponification corresponding to not more than about 10 per cent of the original weight of the cellulose acetate threads or filaments, the alkaline saponifying agent being employed in a concentration of between about 0.1 per cent and about 0.5 per cent.

1,425,365. ATTACHMENT FOR BINDERS. OSWALD E. CALLAWAY, Dallas, Tex. Filed Nov. 29, 1920. Serial No. 427,166. 1 Claim. (Cl. 56—323.)



In combination with an agricultural machine having a cutting mechanism and a ground wheel, means for controlling the communication of motion to the cutting mechanism and consisting of a drive shaft driven from the ground wheel, a driven shaft for connection to the cutting mechanism, a clutch operatively connecting the two shafts and having a shiftable or movable element, a vertically reciprocable post provided at its upper end with an operator's seat, a bracket mounted on the frame of the machine, a rock shaft journaled in said bracket and formed with cranks at its opposite ends of which one is pivotally connected to the lower end of the post, a clutch lever pivotally mounted on the frame of the machine and operatively connected with the movable member of the clutch, and a link having its terminals connected respectively to the clutch lever and the remaining crank of the rock shaft, whereby the reciprocation of the seat vertically may effect engagement and disengagement of the movable clutch element for the purpose specified.

1,425,366. MAGNETIC STRAINER APPARATUS FOR SEPARATING SOLIDS FROM LIQUIDS. EDWARD BROOKS CHAPMAN, Whitley Bay, England. Filed Nov. 9, 1921. Serial No. 514,036. 7 Claims. (Cl. 210—164.)



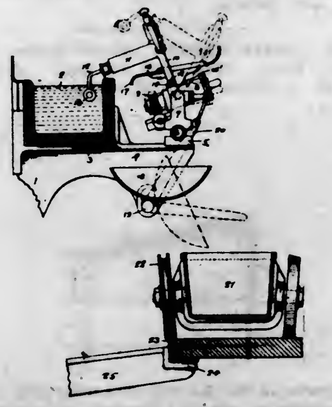
1. A magnetic strainer, comprising a body having a liquid inlet, a liquid outlet and an open top, a cover for said top, perforated plates extending downwardly from said cover, and polar members having straight limbs arranged parallel to said perforated plates and adapted to produce magnetic fields across which the liquid flows from the inlet to the outlet, the said perforated plates being collectively removable through the open top and the polar members being similarly nested for collective removal in the same way, substantially as described.

1,425,367. HAIRPIN. GEORGE TRUMAN CHASE, Utica, N. Y. Filed Oct. 19, 1920. Serial No. 417,878. 1 Claim. (Cl. 132—50.)



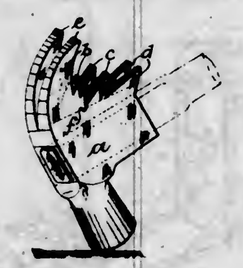
A hair pin consisting of a single length of material having tines provided with a plurality of angularly disposed outwardly directed shoulders, second angularly disposed outwardly directed shoulders between said shoulders and the insert end of the pin, the first mentioned shoulders projecting farther from the median line of the pin than the second mentioned shoulders, portions converging toward the insert end of the pin intermediate the shoulders, elongated portions at the free ends of the tine converging toward the head of the pin portions converging toward the insert end of the pin intermediate the elongated portion and adjacent shoulders, and an elongated loop forming the head of the pin having sides converging from the first mentioned shoulders movable relatively to each other to move the second and third mentioned portions into contact at their junction.

1,425,368. APPARATUS FOR SPINNING ARTIFICIAL SILK. JAMES CLAYTON, Sebakwe, Babbicombe, England, assignor to The Viscose Company, Marcus Hook, Pa., a Corporation of Pennsylvania. Filed Oct. 12, 1920. Serial No. 416,535. 9 Claims. (Cl. 18—8.)



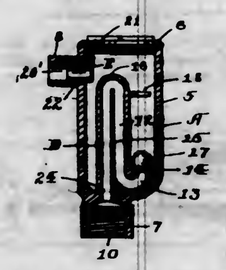
1. In apparatus of the type described, a movable spinning nozzle, a pump delivering liquid thereto, disconnectable driving gear for the pump, and an operative connection between the nozzle and pump driving gear to disconnect the latter on the operative movement of the spinning nozzle in one direction.

1,425,369. CARPENTER'S HAMMER. ARTHUR BERTRAM COLEMAN, Gosnells, near Perth, Australia. Filed Nov. 22, 1920. Serial No. 425,820. 1 Claim. (Cl. 254—26.)



A hammer having the usual primary nail drawing claws projecting from the end thereof and also formed with a plurality of rearwardly extending supplemental pairs of claws arranged in stepped disposition and having nail grooves therein increasing in depth from the minimum depth in the pair of claws adjacent to the usual claws to the maximum depth of the groove in the rearmost pair of claws, whereby the extraction of nails is effected by engagement of each nail throughout its length to obviate bending of the nail during extraction.

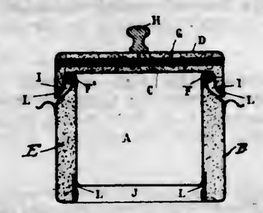
1,425,370. AIR EXHAUST FOR VAPOR-HEATING SYSTEMS. ARTHUR P. CROSBY, Minneapolis, Minn., assignor of one-half to William T. Price, Minneapolis, Minn. Filed Jan. 24, 1921. Serial No. 439,420. 3 Claims. (Cl. 137—113.)



1. A return seal for a vapor system, comprising, a casing having ports in communication with a radiator and with a return pipe, a siphon mounted in said casing and communicating with said return pipe and having a restricted passage in the upper wall of the arch of the siphon above the level of the liquid when siphonic action begins and through which passage air is sucked from the radiator intermittently to break the siphon, a check valve in the radiator port adapted to automatically check flow into the radiator and a check valve in the lower end of the short leg of the siphon adapted to prevent the liquid in the siphon from entirely exhausting.

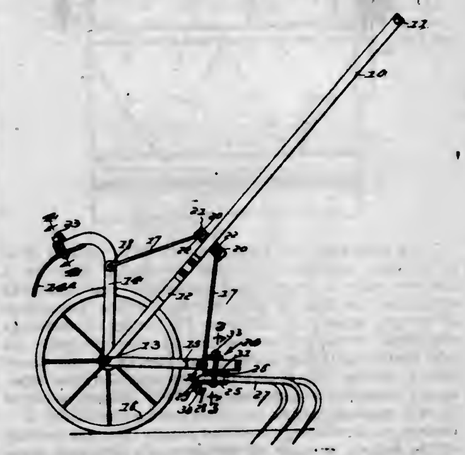
1,425,371. SAUCEPAN. HENRI GASTON GROSGUN DESMAREST, Paris, France. Filed Mar. 5, 1919. Serial No. 280,847. 7 Claims. (Cl. 53—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A cooking utensil comprising a vessel adapted to receive the food to be cooked, and a heat-insulating casing therefor extending below the exposed bottom of said vessel, but forming therewith an air chamber which



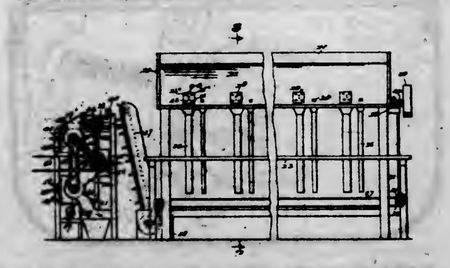
serves to minimize heat radiation from the exposed bottom of said vessel when resting upon a table or the like.

1,425,372. HAND GARDEN PLOW. JOSEPH E. DITTEMORE, Blackwell, Okla. Filed Sept. 16, 1920. Serial No. 410,709. 2 Claims. (Cl. 97—42.)



2. A cultivator having a harrowing element consisting of teeth, an assembly plate having at its rear edge an upturned lip provided with openings for the shanks of said teeth and at its forward edge with a rolled or bent portion having registering openings for the reception of terminal angularly disposed studs on the shanks of the teeth, a locking plate spanning the shanks between said lip and bit, bolts passing through the assembly plate and through the locking plate to maintain the teeth in their proper position, and means for connecting the assembly plate to the cultivator.

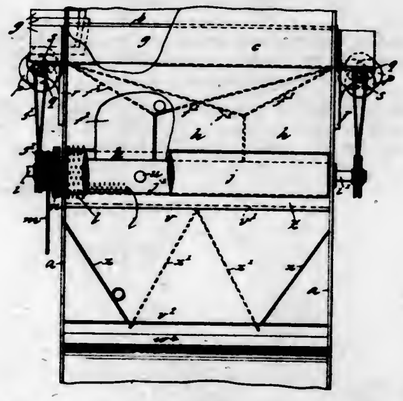
1,425,373. OKRA MACHINE. JAMES N. ECONOMOS, Daphne, Ala. Filed Nov. 15, 1921. Serial No. 515,307. 13 Claims. (Cl. 130—30.)



1. An okra conditioning apparatus having the cutting or heading mechanism, a cleaning mechanism for receiv-

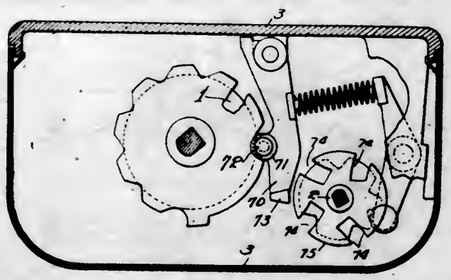
ing and removing foreign matter from the whole okra, and separate conveyers for respectively receiving the heads and whole okra from the cutting mechanism, the latter of which is arranged to convey to the okra cleaning mechanism.

1,425,374. APPARATUS FOR SORTING OUT AND DELIVERING BODIES OR LIDS OF TINS OR THE LIKE. VALENTINE C. H. ELGY, Surrey, England. Filed July 31, 1920. Serial No. 400,333. 5 Claims. (Cl. 113—114.)



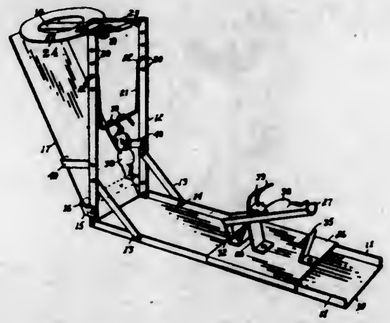
1. In apparatus for sorting hollow-ware articles from a confused assemblage thereof, arranging them in a position with a desired end uppermost and delivering same, the combination of a hopper for the assemblage of articles having an outlet at its bottom, a vertically depending throat communicating at one end with the said outlet, partitions dividing the interior of the throat into a number of vertical passages and slotways alternately disposed, a reciprocating blade slidably mounted in each passage, means for reciprocating the blades in a manner to alternately enter and recede from the interior of the hopper, a series of compartments arranged below the slotways, each compartment communicating at its upper end with one of said slotways and having at its lower end a sloping floor and a discharge outlet and means for arranging said articles in the said desired position after they descend through the discharging outlets of the compartments and for directing them in the said positioned condition to a point of delivery.

1,425,375. CONTROLLING DEVICE FOR ELECTRIC LOCOMOTIVES. SIDNEY W. FARNHAM, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 22, 1916. Serial No. 73,597. 7 Claims. (Cl. 191—3.)



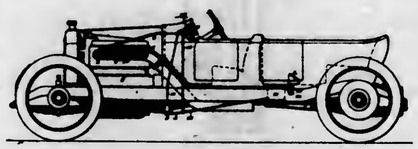
3. The combination with an electric motor of a motor circuit, a controller for controlling said motor circuit, a casing for said controller, two sources of electric supply, a device within the casing of the controller for connecting the motor circuit with either of said sources of electric supply and means for controlling said latter device from the exterior of the casing.

1,425,376. GAME APPARATUS. ELBERT W. FORD, Jamestown, N. Y. Filed Apr. 2, 1921. Serial No. 457,842. 9 Claims. (Cl. 46—59.)



1. A game apparatus comprising a base plate having parallel tracks thereon, an inverted U-shaped frame pivotally attached to said parallel tracks near one end of said base plate, detachable braces between said tracks and said frame to support the same in an upright position, said frame having a lengthwise series of holes in each leg thereof, a wire trapeze sprung into said holes to adjustably and swingingly support the same in said frame, a spring shooter slidably mounted on said tracks on said base plate to adjust said shooter as to distance from said trapeze, and a hook projectile to be thrown by said spring shooter endeavoring to hang the same on said trapeze.

1,425,377. HEATING SYSTEM FOR MOTOR CARS. JOHN F. GRISSINDORFER, Sacramento, Calif. Filed May 8, 1919. Serial No. 295,619. 1 Claim. (Cl. 237—12.3.)

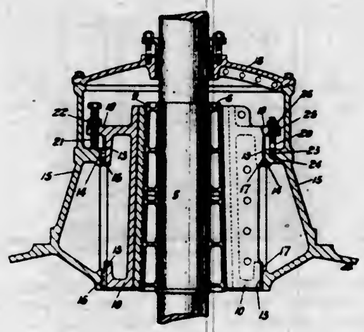


The combination with the engine of an automobile, of a steam generating pipe placed within the exhaust manifold, a sight feed, a water supply tank, a pump for delivering water from the tank to the sight feed, a needle valve in the sight feed to regulate the quantity of water passing through the sight feed, a pipe connecting the sight feed with the steam generating pipe in the exhaust manifold, and delivering regulated quantities of water thereto, a radiator having separate steam inlet and outlet connections, and a pipe connecting the inlet connection of the radiator with the steam generating pipe in the exhaust manifold.

1,425,378. BEARING FOR HYDRAULIC-TURBINE SHAFTS. EUGENE U. GIBBS, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a Corporation of Pennsylvania. Filed Sept. 7, 1921. Serial No. 499,097. 5 Claims. (Cl. 64—55.)

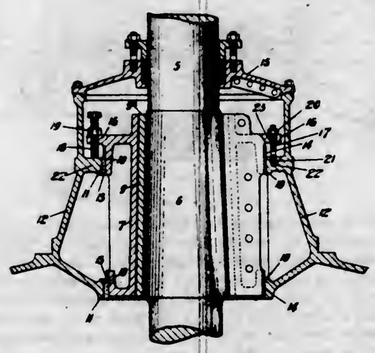
1. In a bearing of the class specified, the combination with a shaft, of a sleeve having an inner longitudinally straight bore to snugly receive the shaft and an outer

tapered surface, and an adjustable bearing frame completely surrounding the sleeve and formed with a plurality of longitudinally disposed inner grooves with



space strips of wood secured therein, the space strips having their inner edges tapered similarly to and bearing upon the outer surface of the sleeve.
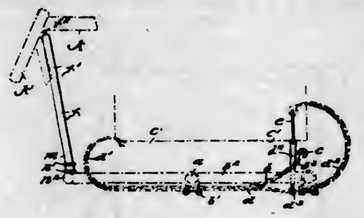
1,425,379. BEARING FOR HYDRAULIC-TURBINE SHAFTS. EUGENE U. GIBBS, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a Corporation of Pennsylvania. Filed Sept. 7, 1921. Serial No. 499,098. 4 Claims. (Cl. 64—55.)



1. In a bearing of the class specified, the combination of a shaft having an intermediate tapered section forming an integral part thereof, an outer fixed frame, and an intermediate frame slidably adjustable in the fixed frame and having an inner regularly tapered side formed with longitudinal grooves extending the full lengths thereof and surrounding the tapered section of the shaft and provided with wood strips with inner tapered edges directly bearing upon said tapered shaft section.

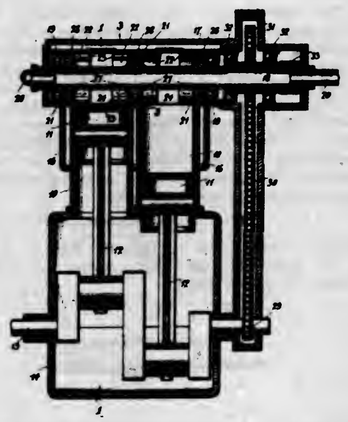
1,425,380. CHASSIS FOR MOTOR-CYCLE SIDE CARS. THOMAS GORDON, Perth, Western Australia, Australia. Filed Aug. 21, 1920. Serial No. 405,192. 3 Claims. (Cl. 208—45.)

1. In a chassis suspension for cycle side cars, a frame, a side car having a floor resiliently supported on said frame and an auxiliary spring having an upwardly and rearwardly curved form and rollers carried at the ends



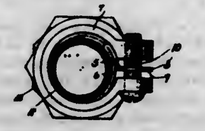
of said spring and adapted to make supporting contact with the floor of said side car.

1,425,381. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. ANDRÉ LÉON P. GUÉRET, Paris, France. Filed Dec. 28, 1918. Serial No. 268,689. 3 Claims. (Cl. 123—80.)



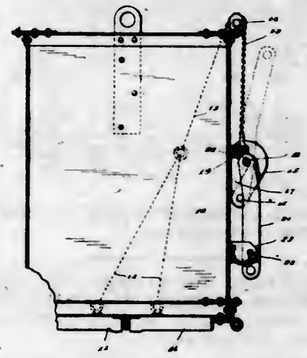
1. In an internal combustion engine, the combination with a cylinder, of a valve casing having inlet and exhaust ports and a space communicating with said cylinder, and a rotary valve in said casing comprising a shaft and a pair of valve members thereon, said members being located at opposite sides of the space in said casing, and having oppositely disposed, thin, flexible, annular flanges having symmetrically arranged notches in their edges constituting ports cooperating with the ports in said casing.

1,425,382. SQUEEZE CONNECTOR. GEORGE L. HATHEWAY, New York, N. Y., assignor to The Rattan Mfg. Co., New Haven, Conn., a Corporation. Filed Oct. 3, 1921. Serial No. 505,151. 2 Claims. (Cl. 247—26.)



1. A reducing device for squeeze connectors consisting of a longitudinally bowed portion, and a straight portion at an angle to the bowed portion and formed with a clearance slot.

1,425,383. DUMPING BUCKET. WILLIAM H. INSLEY and ALVIN C. RASMUSSEN, Indianapolis, Ind., assignors to Insley Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed June 21, 1920. Serial No. 390,356. 3 Claims. (Cl. 294—71.)



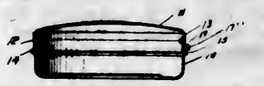
1. The combination with a bucket having a discharge opening and a closure therefor movable in the direction of opening under the action of the supporting load, of a support for said closure, comprising a pair of pivotally-connected links, one connected to the bucket and the other to the closure, a shiftable operating member arranged for movement independent of said links, said operating member and links having interengaging portions limiting the independent movement of the operating member at opposite ends of such independent movement, substantially as described.

1,425,384. CORD TIP. JAMES P. KELLY, New York, N. Y. Filed Dec. 24, 1921. Serial No. 524,560. 7 Claims. (Cl. 24—143.)



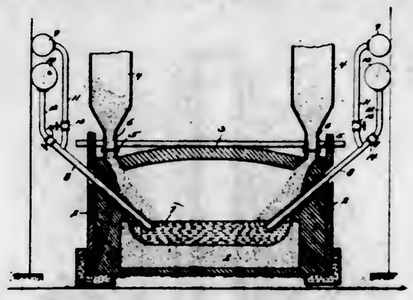
1. A cord tip device comprising a headed pin with a shank for embracing one side of the end of a cord, said pin having another portion for extending transversely through the cord and a tip portion connected to the transversely extending portion and adapted to embrace the side of the cord opposite the shank of the pin, and a sleeve for embracing the shank and tip of the pin and abutting against the head of the pin.

1,425,385. BOX OPENER. EDWIN JAMES KENDALL, Beaver Cove, British Columbia, Canada. Filed May 26, 1921. Serial No. 472,631. 1 Claim. (Cl. 220—43.)



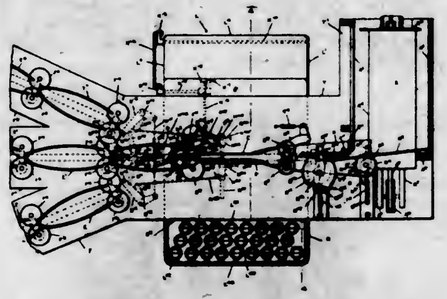
A box section, a cover section for slidable connection therewith, one of said sections having a stop engageable by the free edge of the other section, the last mentioned section at said free edge being slit inwardly to provide a laterally and outwardly disposed tongue to accommodate an opening instrument between the same and said stop, said tongue having a terminal lip disposed opposite and substantially parallel to the outer wall of the last mentioned section to reinforce the last mentioned section against contracting strain incidental to twisting of said instrument.

1,425,386. METHOD OF REDUCING ORES. EDWARD C. KING, Los Angeles, Calif. Filed Oct. 28, 1920. Serial No. 418,906. 7 Claims. (Cl. 75—17.)



1. The hereindescribed method of reducing metal ores which comprises introducing an oxidizing agent and carbonaceous material into the interior and below the surface of a molten bath of metal produced from such ore, and concurrently feeding ore to be reduced to the surface of such bath.

1,425,387. MAIL DISTRIBUTOR. GEORGE M. KITSMILLER, Norfolk, Va., assignor of one-half to Louis Larson, Norfolk, Va. Filed July 12, 1921. Serial No. 484,080. 17 Claims. (Cl. 214—11.)



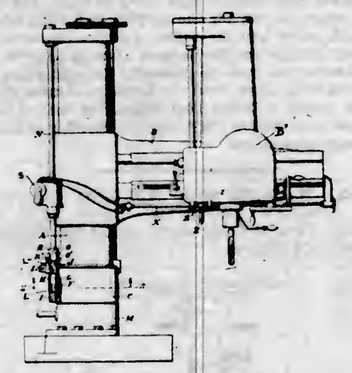
1. In a mail distributor, the combination of a receptacle adapted to receive unassorted mail; a rotatable cam adapted to remove a single piece of mail from said receptacle; a second rotatable cam adapted to forward the piece of mail so removed; means adapted to rotate said cams alternately; a key adapted to be depressed; and means operated by the depression of said key adapted to control said rotating means.

4. In a mail distributor, the combination of an unassorted mail receptacle; a plurality of assorted mail receptacles arranged in series; independent mail forwarding means associated with each series; a trough adapted to receive a piece of mail from said unassorted mail receptacle and deliver same to any one of said mail forwarding means and a plurality of keys arranged in series, the keys in each series being adapted to adjust said trough to deliver a piece of mail to the corresponding one of said forwarding means.

1,425,388. SAFETY INSERTABLE AUXILIARY LEVER FOR AIR CLAMPS. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 18, 1921. Serial No. 461,145. 14 Claims. (Cl. 77—28.)

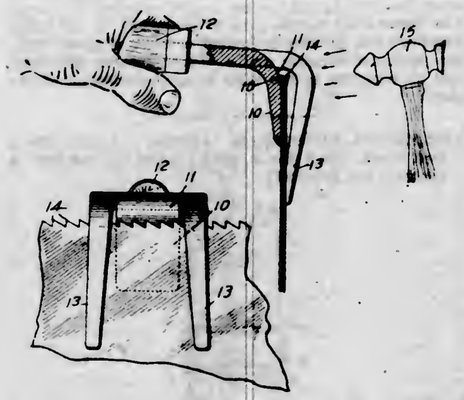
1. A safety-mechanism combining two relatively movable elements; a device for locking said elements together;

a source of power; a member adapted to be moved by said power; a lever for turning-on and turning-off said power to control the power actuation of said member; a connection between said member and said device; and a second



lever adapted to be positioned to enable it to actuate said device by manual force applied to said second lever, the parts being so constructed that said connection will be severed when said second lever is in its operative position.

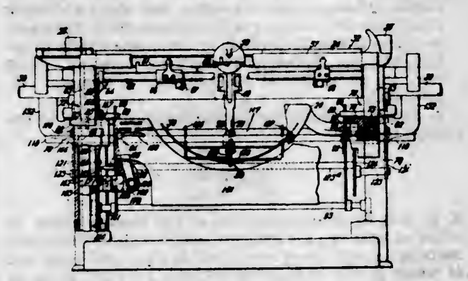
1,425,389. SAW SET. HERMAN KUEHN, New Auburn, Wis. Filed Apr. 25, 1921. Serial No. 464,180. 2 Claims. (Cl. 76—73.)



1. A saw set comprising an anvil member and means for retaining the saw against the anvil member, the anvil member provided with a plane face for the saw blade and an anvil surface for the saw teeth, the anvil surface receding from the plane face with an increasing angularity relative to the plane face.

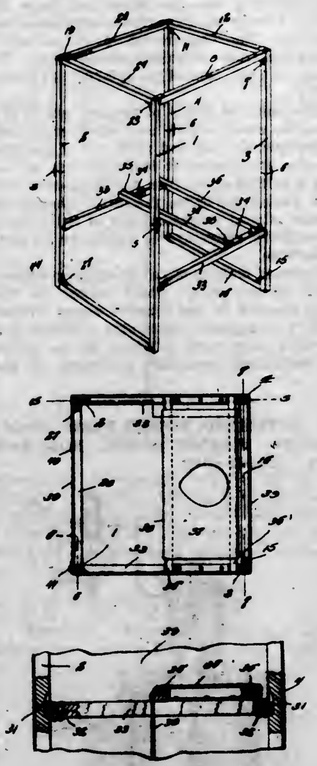
1,425,390. TYPEWRITING MACHINE. ALFRED G. F. KUSOWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed May 1, 1920. Serial No. 378,205. 44 Claims. (Cl. 197—60.)

1. In a typewriting machine, the combination with a main frame and type-actions therein, of a carriage, rails for said carriage, a subsidiary frame including said rails detachably mounted on said main frame to enable another subsidiary frame to be mounted thereon, a plurality of releasable devices for detachably holding the subsidiary



frame on the main frame, and connections between said devices for operating all of said devices concomitantly to render them effective or ineffective.

1,425,391. PORTABLE CLOSET. HERBERT W. LA MUNYON, Cheyenne, Wyo. Filed Nov. 23, 1920. Serial No. 426,002. 1 Claim. (Cl. 4—32.)



In combination with sectional collapsible frame and a fabric covering therefor, including a door of a pair of spaced parallel horizontal cleats secured adjacent the lower end of said frame, plates secured to the upper face of said cleats and having flanged ends, bars arranged transversely on the cleats and contacting with the flanged ends of the plates, a fabric secured to the bars and having an opening formed therein, and an apron projecting from one end of said fabric and extending beyond one of said bars.

1,425,392. NEW LIQUID PHOSPHORIC ESTERS AND PROCESSES OF MAKING SAME. AUGUST LEOPOLD LASKA, Offenbach-on-the-Main, and HANS HEINRICH CHRISTIAN PRILLWITZ, Frankfort-on-the-Main, Germany, assignors to The Corporation of Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Filed Apr. 12, 1921. Serial No. 460,762. 8 Claims. (Cl. 260—98.)

1. As new products the liquid phosphoric esters of the general formula



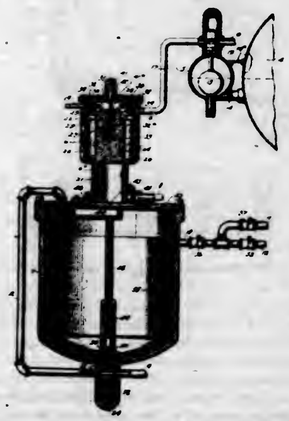
R, R_1 and R_2 meaning radicles of the benzene series, of which at least two are different, and of which at least one contains an alyki group in a position, other than para, and of which in the highest one contains an alkyl group in para position relating to the oxygen-atom, the liquid phosphoric esters being separated, when saponified, into phosphoric acid on the one side and into mixtures of phenols of the benzene series on the other side, being viscous, almost colourless oils of little fluorescence, liquid at ordinary temperature, which can be distilled at reduced pressure.

1,425,393. NEW MIXED PHOSPHORIC ESTERS AND PROCESSES OF MAKING SAME. AUGUST LEOPOLD LASKA, Offenbach-on-the-Main, and HANS HEINRICH CHRISTIAN PRILLWITZ, Frankfort-on-the-Main, Germany, assignors to The Corporation of Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Filed Apr. 12, 1921. Serial No. 460,763. 11 Claims. (Cl. 260—98.)

7. As new products mixed phosphoric esters of phenols of the benzene series which are, when saponified, separated in phosphoric acid and mixtures of phenols of the benzene series containing at least 25–30% of a phenol, containing a methyl group in a position, other than para, relating to the oxygen-atom, the mixed phosphoric esters being viscous, almost colourless oils of little fluorescence, liquid at ordinary temperature, which can be distilled at reduced pressure.

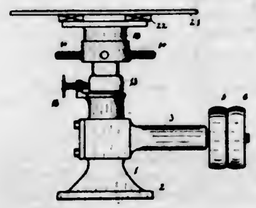
8. A process of making mixed phosphoric esters of phenols of the benzene series, which consists in treating a mixture of phenols of the benzene series containing at least 25–30% of a phenol containing a methyl group in a position, other than para, relating to the oxygen-atom, with a phosphorus compound according to the usual method.

1,425,394. AUTOMATIC BOILER FEED. JOHN S. LEE, Newton, Iowa. Filed Nov. 18, 1920. Serial No. 424,925. 8 Claims. (Cl. 103—54.)



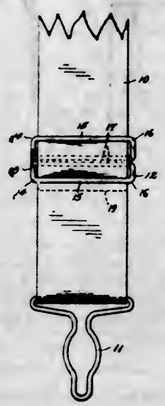
2. In an automatic boiler feed, the combination of a trap casing for holding water, steam connections for normally maintaining said water under pressure, a pump cylinder connected with said trap casing for receiving water forced from said trap casing by steam pressure therein, valve mechanism to prevent the retrogression of said water from said pump cylinder into said trap casing, a plunger movable relatively to said pump cylinder and engaging the water therein for the purpose of forcing said last mentioned water into the boiler, a piston connected with said pump plunger for the purpose of actuating the same, steam connections from the boiler to the said pump plunger for enabling steam from the boiler to actuate said piston, and means including float mechanism controllable by the water level within the boiler for opening and closing said steam connections.

1,425,395. MACHINE FOR MOLDING CHOCOLATE AND SIMILAR PRODUCTS. LOUIS LEVY, Paris, France. Filed Dec. 30, 1919. Serial No. 348,398. 5 Claims. (Cl. 259—91.)



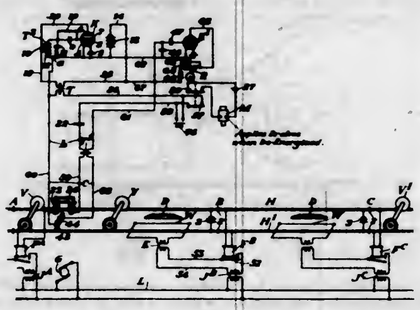
1. In a chocolate jolting machine, the combination of a frame, a shaft mounted in the frame, a disk mounted on the shaft, said disk having on its edge a plurality of cams, one of which terminates a greater distance from the center of the disk than the other of said cams, a table located above the frame, and a stem depending below the frame and terminating in the path of movement of the cams, whereby when the disk is rotated, a series of minor vertical jarring movements and a violent jarring movement will be imparted to the table in each revolution of the shaft.

1,425,396. SLIDE BUCKLE. ARTHUR J. LEWIS, Stratford, Conn. Filed Apr. 3, 1922. Serial No. 548,898. 4 Claims. (Cl. 24—200.)



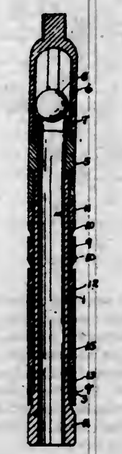
1. A slide buckle including a pair of loops having side bars connected at one end and free at the opposite ends, intermediate bars extending from the free ends to and over the connecting member, the side and intermediate bars being in substantially the same plane, and the connecting member having its central portion offset laterally from said plane.

1,425,397. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. LLOYD V. LEWIS, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Original application filed Nov. 25, 1918, Serial No. 263,969. Divided and this application filed Mar. 24, 1921. Serial No. 455,139. 8 Claims. (Cl. 246—63.)



2. Railway traffic controlling apparatus comprising a vehicle, a circuit thereon supplied with alternating current, and containing inductance and capacity, a relay supplied with current from said circuit and effectively energized when the inductance in such circuit has a given value, devices located in the trackway for changing the value of the inductance in said circuit to a sufficient extent to effectively de-energize said relay, trackway means for energizing said relay independently of said circuit, and governing means on said vehicle controlled by said relay.

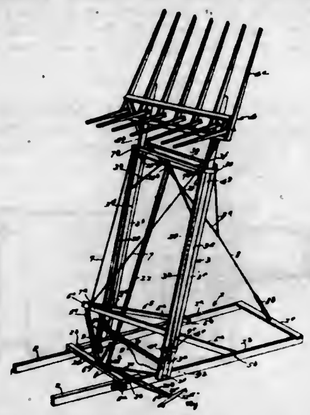
1,425,398. PUMP PLUNGER. GERALD R. LIVERGOOD, Houston, Tex. Filed July 29, 1921. Serial No. 488,311. 7 Claims. (Cl. 103—63.)



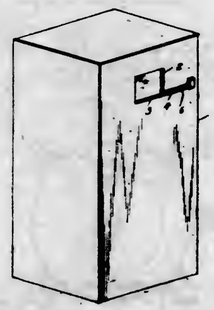
5. In a pump plunger the combination of a tubular body, scraping cups at each end thereof, and resilient expanding rings clamped between said cups on said body.

1,425,399. HAYSTACKER. ALBERT T. LOFTSGAARDEN, Powell, Wyo. Filed Mar. 12, 1921. Serial No. 451,739. 7 Claims. (Cl. 214—141.)

1. A hay stacker including a base provided with side bars, an elevator frame connected to said base, an elevator carried by said frame, means for simultaneously swinging said frame and extending said elevator relatively to said frame, and extension blocks provided with clips designed to engage the side bars of the base.

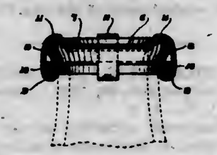


1,425,400. BANK-DEPOSIT RECEIVER. JAMES K. LOWE, Denison, Tex. Filed Nov. 1, 1921. Serial No. 512,004. 5 Claims. (Cl. 232—44.)



1. A depositary comprising a box having an opening for receiving the deposits, a sliding door for closing the receiving opening and a plate movable with the sliding door and adapted to be brought opposite the receiving opening when the same has been uncovered by the sliding of the door to one side.

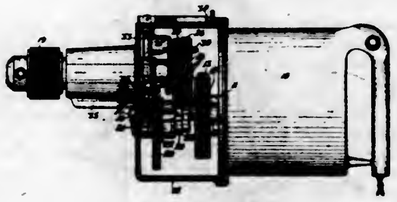
1,425,401. BOTTLE CLOSURE. THOMAS MCNAMEE, Philadelphia, Pa. Filed Feb. 28, 1922. Serial No. 539,984. 1 Claim. (Cl. 215—38.)



The combination with a bottle having a neck rim of a closure fashioned with a concentric dished portion adapted to fit within the upper part of the bottle neck, a peripheral flange for gripping the outer surface of the

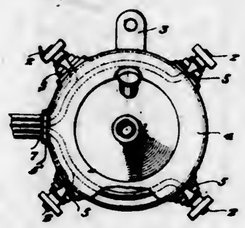
bottle neck, diametrically opposed tongues integral with the peripheral flange, and a resilient gripping ring held in place by said tongues, the aforesaid tongues being folded backwardly upon themselves to provide retaining loops for the resilient ring and the free ends thereof being clinched on to the upper edge of the closure.

1,425,402. COMBINED DRILL AND VALVE GRINDER. PHILIP MACKENZIE, San Francisco, Calif. Filed June 30, 1920. Serial No. 393,021. 8 Claims. (Cl. 29—26.)



1. In a machine tool, a rotary driving element, a chuck, a spur gear on the chuck spindle, a pair of reciprocating pawls alternately engageable with the spur gear for imparting oscillating movement thereto, a spur gear for driving said pawls, and a sliding gear alternately engageable with said spur gears for transmitting continuous rotary motion from the driving element to the chuck or oscillating movement from the driving element to said chuck.

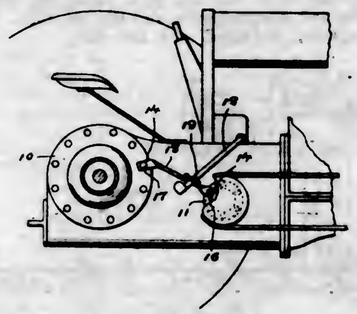
1,425,403. TIMER COVER. JOHN MAJEMPSEY, Kansas City, Kans. Filed May 11, 1920. Serial No. 380,638. 2 Claims. (Cl. 200—24.)



1. In combination with a timer box having a cylindrical and conical part and an actuating ear and the conductors connected therewith, a ring member of angle shape in cross section fitting over the cylindrical part of said box and having its inner edge engaging the conical part thereof, said member having openings therein for receiving the terminals and their conductors and the actuating rod ear on the box and another opening through which the four conductors pass from the ring member, the portions of the conductors in the ring member being located in the space formed by the upper flange of the member and the conical part of the box.

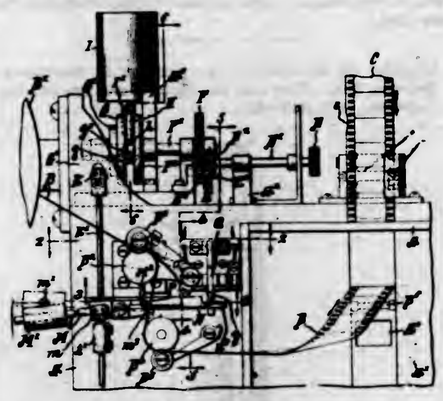
1,425,404. CLUTCH LOCK. ALFRED NILE MERRILL, Oxford, N. J. Filed Feb. 19, 1921. Serial No. 446,327. 1 Claim. (Cl. 74—81.)

The combination with a tractor having a bolt secured differential housing, a bolt secured belt pulley housing spaced therefrom and a clutch pedal operating between said housings, of a support formed of a flat strip of metal having its ends bent to provide for contact with the outer vertical faces of the differential and clutch pedal housings and an intermediate substantially horizontal portion, said ends being apertured to receive the bolts of said housings and an L-shaped substantially horizontally movable hook having one end pivotally secured



to the support upon the horizontal portion and its other end adapted for engagement with the clutch pedal to hold the latter against movement in one direction.

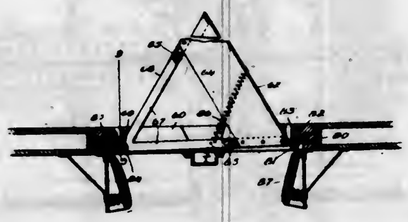
1,425,405. AUTOMATIC ELECTRIC FILM CUTTER. ARTHUR WILHELM MILLER, Roselle Park, and WALTER LOUIS CONKLIN, Boundbrook, N. J., assignors to Pathé Exchange, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 12, 1921. Serial No. 499,963. 23 Claims. (Cl. 95—75.)



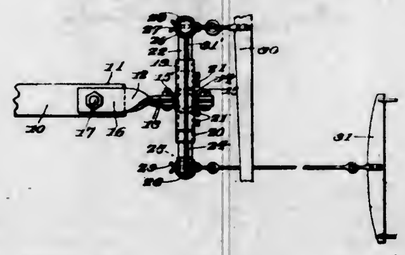
1. In a cinema film printing apparatus, means for cutting the positive film, comprising a spring operated shears, means for normally holding said shears in the open position, means for passing the positive film between the blades of said shears independent means for feeding the negative film, an electric circuit and means controlled thereby for releasing said shears, and a circuit closer controlled by the negative film for automatically closing said electric circuit.

1,425,406. MAIL-BAG RECEIVER. DANIEL W. MILLIGAN, Washington, D. C., assignor to Automatic Mail Exchange Co., Washington, D. C., a Corporation of Delaware. Filed Apr. 26, 1920. Serial No. 376,827. 6 Claims. (Cl. 258—22.)

1. The combination of a railway car having an opening in the side thereof and also having a sill below said opening and a cap above the same, said sill and cap being provided with sockets and with comparatively narrow arcuate channels connecting said sockets with the outer side of the car, said car also having posts at opposite sides of said opening and recesses in the inner corner portions of said posts, a reversible receiving member provided adjacent to two corners thereof with pivot members for co-operation with said sockets and channels, said pivot members with flattened portions for passage through the channels, springs projecting within the sockets, and having rounded nipples, each pivot member having a recess for engagement with its respective nipple, a rod connected with said receiving member at one corner thereof, bolts journaled in the posts and having arms, springs operating on the bolts to normally maintain the arms thereof in the recesses of the posts, said arms being each adapted when extended from its respective recess to co-operate with the said rod of the receiving member, and a retractile spring interposed between the receiving member and the car and adapted to draw the receiving member inwardly through the said opening.



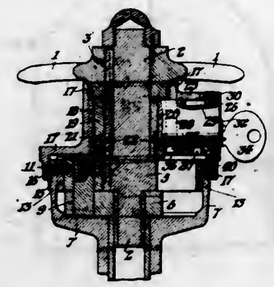
1,425,407. DRAFT EQUALIZER. IRVIE D. MITCHELL, Ross, Iowa. Filed June 23, 1921. Serial No. 479,907. 1 Claim. (Cl. 278—3.)



A draft equalizer comprising a clevis, a vertical shaft rotatably supported in the clevis, the upper and lower ends of the shaft having horizontal and oppositely extending tubes, a shaft slidable in each tube and having a right angularly extending terminal arm, the arm of one shaft extending upwardly while the arm of the other shaft extends downwardly, and means on the said arms for connection with draft animals.

1,425,408. AUTOMOBILE LOCK. JAMES A. MURPHEY, Philadelphia, Pa. Filed Apr. 5, 1921. Serial No. 458,796. 5 Claims. (Cl. 70—129.)

1. The combination with a normally rotary element and a stationary element of a vehicle; of two members respectively rigidly connected with said elements; said member connected with said stationary element having a lock casing socket; the other of said members having a locking recess arranged to register with said socket when said rotary member is turned; and a key lock including a body fitted to said casing socket and a bolt which may be set by the key of said lock to prevent disengagement of said lock and thus prevent relative



rotation of said members; whereby said lock is prevented from turning with said rotary element and thus continuously maintained in a position accessible to the operator.

1,425,409. PLOW ATTACHMENT. WILHELM NEHLS and AUGUST LEMKE, Maseppa, Minn. Filed Aug. 9, 1920. Serial No. 402,140. 1 Claim. (Cl. 97—32.)

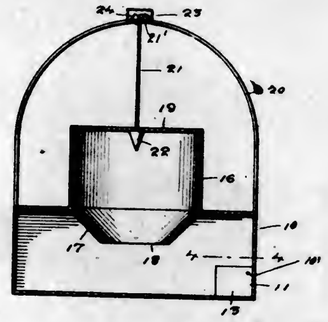


Two plow shares arranged one in advance of the other, and the forward share elevated above the rear share, a beam for each share, the beam for the rear share resting on the beam for the forward share, said first mentioned beam having on its lower face a longitudinal tongue, and the second beam having on its upper face a socket in which the tongue is received, a plate arranged against one of the sides of the beams, said plate being of a length greater than the combined thickness of the beams, a U-bolt straddling the beams and passing through diagonally opposed openings in the plate, nuts engaging the arms of the U-bolt for forcing the same and the plate against the beams, plates disposed transversely over the upper and lower faces of the beams, and adjustable means connecting said plates and in contacting engagement with the sides of the beams.

1,425,410. TRAP. MARY J. NEWMAN, Fort Smith, Ark. Filed Oct. 17, 1921. Serial No. 508,096. 3 Claims. (Cl. 43—69.)

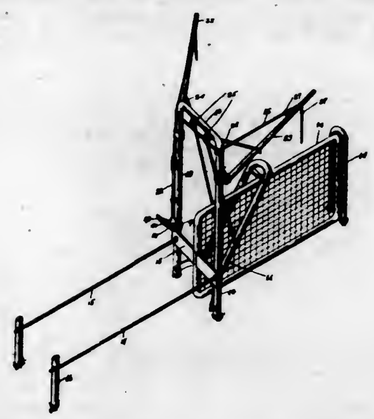
1. A trap of the character described comprising in combination, a receptacle having an opening in the top thereof, a cylindrical portion arranged above the receptacle and received by said opening, said cylindrical portion including a flange arranged within the receptacle and converged toward the center of the receptacle to provide a restricted opening at the lower end of said

cylindrical portion for the purpose specified, a plate closing the upper end of the cylindrical portion and



susceptible of tilting movement in any direction, and means for normally holding said plate in a horisontal position.

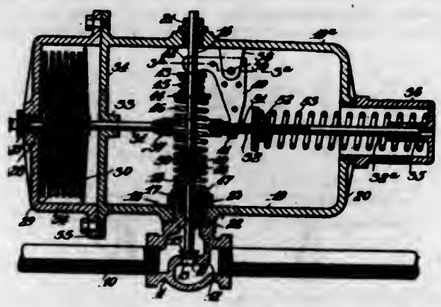
1,425,411. FARM GATE. CHRIS NIELSEN, Ruthven, Iowa. Filed Nov. 11, 1920. Serial No. 423,286. 2 Claims. (Cl. 39—64.)



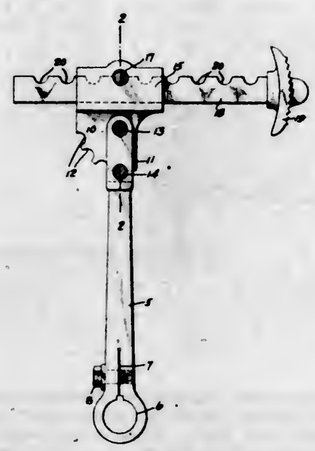
1. The combination with a gate, of an upright frame, a lever pivoted to the lower portion of the upright frame and also pivoted to the upper central portion of the gate, means for swinging the lever to move the gate longitudinally, a cross piece fixed to one end of the gate and having two openings therein, two wires fixed to the upright extended through said openings in substantially horizontal positions, supporting posts for the outer ends of said wires, said wires being extended in horizontal positions parallel with the opposite sides of the gate whereby when the said lever is moved one end of the gate will be tilted upwardly and the other end will be guided in substantially a horizontal position during its longitudinal movement.

1,425,412. VALVE MECHANISM. HARRY Y. NORWOOD, Rochester, N. Y., assignor to Taylor Instrument Cos., Rochester, N. Y., a Corporation of New York. Filed Mar. 7, 1919. Serial No. 281,199. 5 Claims. (Cl. 137—139.)

1. In an automatic valve, the combination with a valve housing having a valve seat and a valve therefor, of a substantially rectangular frame carried by said valve housing, a stem for said valve extending laterally through said frame and provided with a spring counterbalancing said stem and valve, a pressure sensitive device at one end of said frame having an element extending longitudinally therethrough and provided with a spring for regulating said device, a bell crank pivotally mounted on said frame in connection with said element and spindle and cushioning means to absorb the shock of seating of said valve.



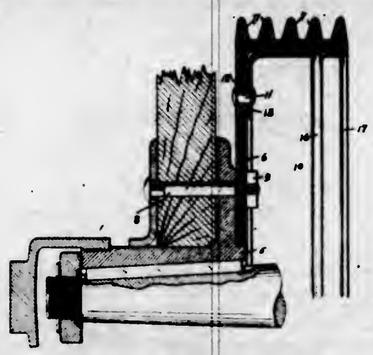
1,425,413. ADJUSTABLE FOOT PEDAL. VICTOR W. PAGE, New York, N. Y. Filed May 7, 1921. Serial No. 467,548. 3 Claims. (Cl. 74—87.)



1. In combination with a foot lever, a housing carried by one end thereof, means for adjustably positioning said housing relatively to the foot lever, a notched bar slidably mounted in said housing, and a bolt extending transversely of said housing and lying within one of the notches of the notched bar to prevent movement of the notched bar longitudinally of the housing, said bolt also serving to grip the housing about the notched bar.

1,425,414. BRAKE DRUM. VICTOR W. PAGE, New York, N. Y. Filed June 4, 1921. Serial No. 475,152. 4 Claims. (Cl. 188—218.)

3. A device of the character described comprising a brake drum provided with an internal annular channel and an annular face defining its open side, and a lining for said brake drum, said lining being spun into the



annular channel and shaped to conform to the angular face defining the open side of said drum.

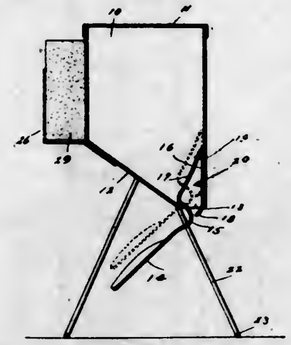
1,425,415. WRENCH. ALBERT PARTIN, Talkeetna, Territory of Alaska. Filed Nov. 12, 1918. Serial No. 262,180. 1 Claim. (Cl. 81—161.)



In a wrench, a shank provided with a threaded portion, one side of the shank being cut away at the threaded portion to form a plane surface, a jaw carried by one end of the shank, a second jaw provided with a bore through which the shank passes, the jaws having work-engaging portions on each side of the shank, providing independent tools for engaging round and flat surfaces, respectively, a sleeve having a bore receiving the shank and provided with a segmental threaded portion within the bore for engaging the threads of the shank, said sleeve also having an annular channel within one end of the bore, the channel having a curved wall, the second named jaw having a portion of reduced diameter, and this jaw including an annular flange presenting a curved surface for engagement with the channel in the bore, the adjacent end of the sleeve cooperating with the reduced portion, and a spring surrounding the shank beyond the sleeve and engaging the end of the sleeve, for retaining the jaws in closed position when the threaded elements are disengaged.

1,425,416. DISPENSING HOLDER. FRED F. PRIHODA, Charleston, W. Va. Filed Nov. 27, 1920. Serial No. 426,749. 2 Claims. (Cl. 211—8.)

1. In combination, a receptacle having inclined bottom and an opening extending transversely thereof, a dispensing device including an inverted substantially V-shaped portion arranged within the receptacle for sliding movement, and a tray projecting forwardly from the bottom, one wall of the portion arranged within the receptacle normally closing the opening in the bottom thereof, means for associating the device with the receptacle, and an article receiving channel formed on said device and adapted to receive an article when the device is moved within the receptacle, and delivering the article upon the tray when moved in an opposite direction.



1,425,417. BOTTLE CARRIER. AUGUST MARSHALL PRUITT, Cleveland, Ohio. Filed Dec. 10, 1921. Serial No. 521,467. 3 Claims. (Cl. 215—100.)

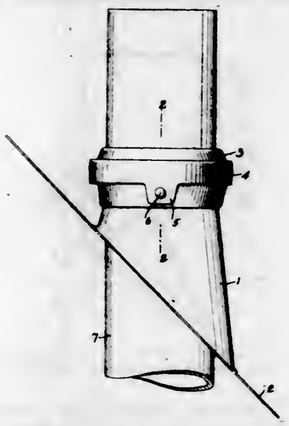


1. A bottle carrier comprising a collar adapted to be engaged upon the neck of a receptacle, said collar being formed of resilient material and having its ends terminating in lateral extensions, and a clamping device permanently pivotally connected with one of said extensions and engageable over the other whereby to clamp the collar upon the receptacle, said clamping device comprising a body having its intermediate portion formed inclined whereby to constitute a cam engaging one of said lateral ends of the collar with its terminal portion formed with a finger engaging loop.

1,425,418. ADJUSTABLE ROOF COLLAR. OSGOOD MORRILL REDLON, Bath, Me. Filed Apr. 6, 1921. Serial No. 458,918. 4 Claims. (Cl. 285—31.)

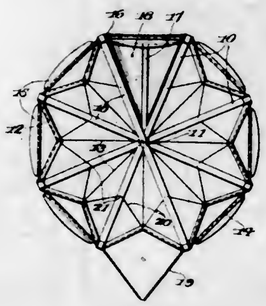
4. An adjustable roof collar of the character described, comprising a flared or truncated conical casing, a roof plate at the lower end of said casing, a pipe projecting upwardly through said casing, a calking ring around

the pipe and around the upper end of the casing, a hard metal ring around the outside of the calking ring and



having an internal taper fitting snugly against the calking ring, and rivets at opposite sides of said rings pivotally connecting them to said casing.

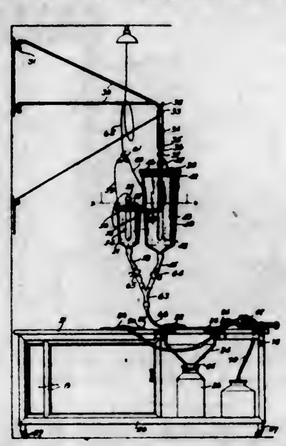
1,425,419. KITE. CHESTER CAMERON REID, New York, N. Y. Filed Jan. 10, 1922. Serial No. 528,162. 2 Claims. (Cl. 244—22.)



1. A kite comprising a plurality of crossed and connected ribs, a thread connected to the outer ends of the ribs and extending therebetween, a second thread secured to the ends of the ribs and extending therebetween, threads secured to the first named threads at points intermediate the ends of the ribs and to the center of the kite in such a position that the said peripheral thread is drawn inwardly between the ribs, and a plurality of vibrating aprons secured to the second peripheral thread between the ends of the ribs.

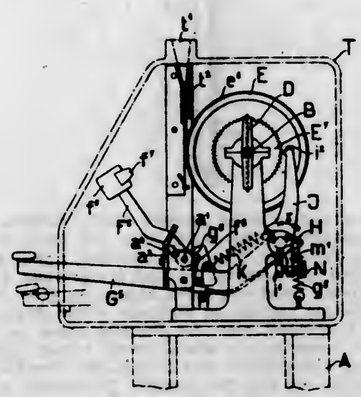
1,425,420. MEDICAL APPARATUS FOR USE IN PROCTOTHERAPY. OSCAR BATO SCHELLBERG, New York, N. Y. Filed Apr. 22, 1921. Serial No. 463,703. 4 Claims. (Cl. 128—227.)

1. A device of the character described comprising a bracket, a rectangular frame having a portion thereof bent at right angles to the main portion to provide means for supporting a plurality of containers, a container suspended in one portion of said rectangular frame, a container rigidly supported in the other por-



tion of said rectangular frame, and means for adjustably supporting said frame relative to the bracket, substantially as described.

1,425,421. WEIGHING MACHINE PROVIDED WITH A PRINTING APPARATUS. HERMAN SCHRÖDER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Apr. 26, 1921. Serial No. 464,764. 4 Claims. (Cl. 234—1.)

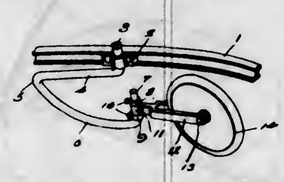


1. In a weighing machine provided with a printing apparatus, a type drum, said drum being adjusted in accordance with the weight of the material to be weighed, a toothed locking wheel rotatable with said drum, an elastic coupling between said type drum and weighing machine, a locking member projecting between the teeth of said locking wheel and spring means for holding said locking member in the path of said teeth.

1,425,422. COLTER. ELMER J. STROUP, Utica, Ill. Filed Nov. 26, 1921. Serial No. 517,978. 1 Claim. (Cl. 97—43.)

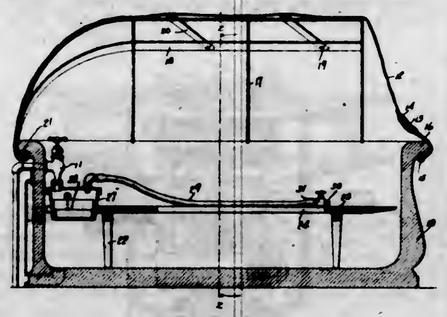
A colter mount for cultivators, comprising a member formed to provide a straight shank which is clamped

to the beam of the cultivator, said member having an arm extending from the shank parallel with the beam and directed toward the front of the cultivator, said arm having its end rounded upon itself and extended at a curvature in an outward and downward direction



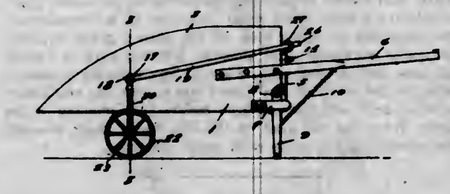
to provide a second deflecting arm, said last mentioned arm having its end formed with an upwardly directed stem, spaced collars on the stem, binding means for the collars, and said stem designed to have arranged thereon and to be received between the collars the eye portion for the hanger of the shaft of a disk colter.

1,425,423. VAPOR BATH. JOSEPH THOMAS, Aberdeen, Wash. Filed Jan. 5, 1922. Serial No. 527,153. 5 Claims. (Cl. 4—18.)



1. A vapor bath including in combination a tub and a stand adapted to be positioned within said tub, said stand including a slab at one end thereof formed with cutout portions adjacent its side edges, said slab being formed with a bifurcated end portion, and a receptacle carried by said end portion, said slab and said receptacle being positioned at a substantial distance from the bottom of the tub.

1,425,424. COMBINED BARROW AND SCRAPER. ERNEST A. TRANSMEIER, Lawrence, Kans. Filed July 16, 1921. Serial No. 485,344. 2 Claims. (Cl. 37—33.)



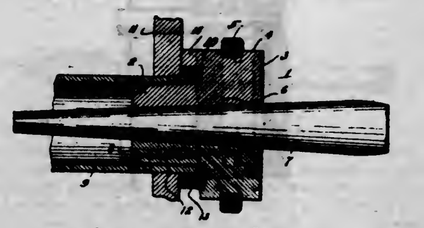
1. In a combined barrow and scraper, a body having a handle at the rear and closed end thereof, legs pivotally supported at the said rear end of the body, spring means influencing the legs above the bottom of the body, latching means holding the legs vertically and depending below the bottom of the body, a bail having its arms journaled on the sides of the body and having extensions from the said sides provided with axles and wheels mounted on said axles, said bail being of a length to straddle the sides and closed end of the body, a spring influenced catch at the said rear end of the body for holding the bail thereon.

1,425,425. TOY HOUSE. FRANK J. VARNUSKA, New York, N. Y. Filed Aug. 31, 1921. Serial No. 497,151. 2 Claims. (Cl. 46—35.)



1. A toy building comprising a base, vertical posts carried by said base, side walls for the building formed of side members of various lengths, door and window sections adapted to be positioned in the side walls of the building, stringers connecting the upper ends of the vertical posts of the building and a roof for said building, said roof comprising two members hingedly secured together on their inner face, and a ridge pole rigidly carried by said members and overlapping the joint between said members, substantially as described.

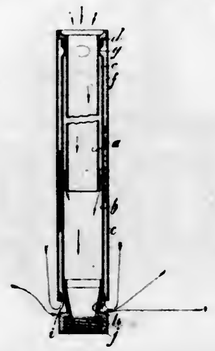
1,425,426. TUBE SETTING AND SPREADING TOOL. JOHN H. VOGT, Jr., Columbus, Ohio. Filed Feb. 7, 1921. Serial No. 442,960. 1 Claim. (Cl. 153—80.)



In a tube setting and spreading tool for boilers, a plurality of interfitting, circularly arranged separable sections, formed to include when assembled a relatively enlarged circular head and a reduced longitudinally extending expansible sleeve, said sleeve being disposed to be received within the open end of a boiler tube and upon being expanded to spread the end of said tube into holding relation with a boiler sheet, means surrounding the head of said tool for maintaining said sections in assembled relation, the said tool being provided with a longitudinally extending tapering opening capable of receiving a tapering expansion member, whereby upon the movement of said expansion member longitudinally and inwardly of the tool the circumference of said sleeve will be expanded, and a plurality of projections extending longitudinally from said head and provided upon alternate sections, the said projections being disposed to extend parallel to the longitudinal axis

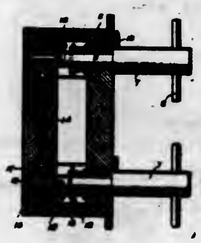
of the tool and to engage with the outer surface of the boiler sheet, whereby upon the expansion of the section longitudinal movement on the part of a tube will be precluded.

1,425,427. RETURN-PIPE CONNECTION FOR HOT-WATER TANKS. ALFRED RICHARD WATSON, Bembridge, Isle of Wight, England. Filed Dec. 28, 1921. Serial No. 525,465. 2 Claims. (Cl. 126—361.)



1. A device adapted to be fitted in a hot water tank and connected to the return pipe thereof in which an inlet is provided at the top of the device and another inlet near the bottom so that water flowing downwardly from the higher inlet towards the return pipe will have a suction effect on the inlet near the bottom.

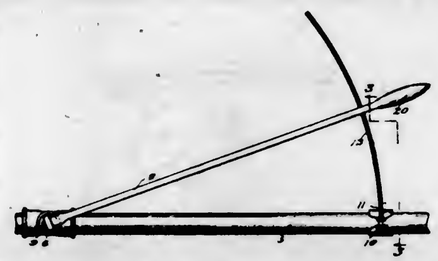
1,425,428. ELECTRIC LOCK. HARRY DORMIN WETHLING, Orange, N. J. Filed Feb. 9, 1921. Serial No. 443,661. 3 Claims. (Cl. 200—43.)



1. An electric lock including a casing, an electrical conductor within said casing, switches interposed within said conductor, said switches each including a freely movable body, means associated with said body for contacting with the end of said conductor to close the circuit, operating elements for said switches, stems secured to said operating elements and extending through said casing, means associated with each of said stems for rendering the same capable of being coupled with the body of the switch, and means co-operating with said stems to cause the same to offer resistance to being operated.

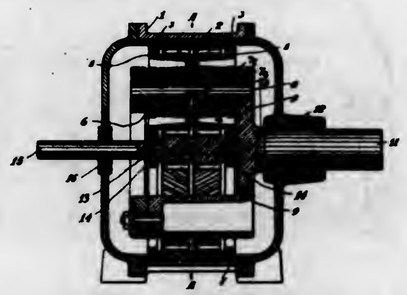
1,425,429. VALVE FOR OIL SYSTEMS. NATHANIEL DU BOIS WHITNEY, Milford, Conn. Filed Apr. 15, 1922. Serial No. 553,122. 1 Claim. (Cl. 137—139.)

A valve for fuel lines comprising a valve member, an operating rod secured thereto, an arcuate rack member adjustably secured to said fuel line and presenting its rack teeth in the direction of said lever, and a knife edge



formed on that edge of the operating rod adjacent the rack and adapted to engage the teeth of the rack member to retain the operating rod and valve in adjusted position.

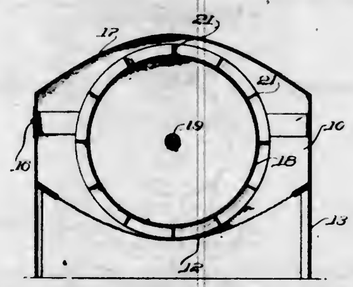
1,425,430. PLANETARY GEAR. OSCAR RAGNAR WIKANDER, Pittsburgh, Pa., assignor, by direct and mesne assignments, to The Skayef Ball Bearing Company, Hartford, Conn., a Corporation of Connecticut. Filed May 6, 1918. Serial No. 232,768. 8 Claims. (Cl. 74—34.)



1. Planetary gearing, comprising the following parts in combination, a stationary internal gear, a plurality of planet gears meshing with said internal gear equally spaced apart with a maximum angularity not exceeding 120°, a sun-gear meshing with the planet gears, a high speed shaft rigidly connected to the sun-gear and yieldingly supported so as to be capable of radial adjustment when rotating, a low speed shaft connected to and driven by the planet gears, flexible operating means for each of the planet gears and for transmitting direct and radial forces equally between the individual planet gears and low speed shaft, said means permitting the plurality of planet gears to relatively shift their axial positions in a circumferential direction to cause each of the planet gears to automatically maintain equal meshing relation with the internal gear and the sun-gear, whereby the working pressures between the teeth of the planet gears and the stationary internal gear and the sun-gear insure transmission of the power from the sun-gear to the low speed shaft through the several planet gears with equal efficiency.

1,425,431. MECHANICAL COLANDER. ELIZABETH WILSON, Plattsmouth, Nebr. Filed Oct. 17, 1921. Serial No. 508,138. 1 Claim. (Cl. 146—9.)

A device of the character described comprising a rectangular open topped casing formed in opposite sides with slots extending downwardly from the open edge, supporting legs at the ends of the casing, a partially elliptical bottom for the casing formed of wire screen, a cylindrical drum having a shaft seating within said slots, one end of the shaft being provided with a crank handle, and said



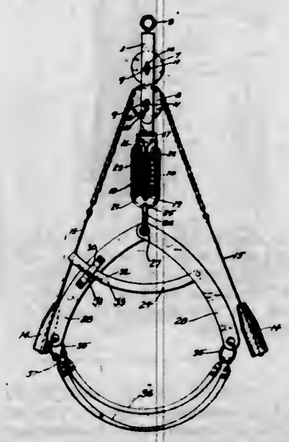
drum being movable downwardly into engagement with said screen bottom, the slots permitting actuation of the drum in spaced relation to the bottom, said drum being formed at its ends with flanges and having its periphery formed with radial ribs connecting said flanges.

1,425,432. SERVICE DEVICE. HECTOR ZOIA, Cleveland, Ohio. Filed Sept. 8, 1921. Serial No. 499,221. 4 Claims. (Cl. 65—53.)



1. A dish holder comprising an open annular shell having an inwardly directed channel about its upper edge and an outwardly directed channel about its lower edge, and a ring seated in each of said channels, said rings adapted to engage grooves in superimposed and subjacent dishes, respectively.

1,425,433. SPINAL-VIBRATING APPARATUS. THOMAS L. ZOOK, Los Angeles, Calif. Filed Mar. 2, 1921. Serial No. 449,090. 11 Claims. (Cl. 46—09.)



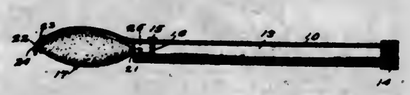
1. A device of the character described comprising members movable relative to one another, suspension means for one of said members, supporting means secured to the other member, said members having pulleys in juxtaposition and normally drawn toward one another by the weight carried by the supporting means and actuating means extending between said pulleys for vibrating the same and said movable members.

1,425,434. SLEEVE HOLDER. SEIKICHI ABE, Los Angeles, Calif. Filed Apr. 18, 1922. Serial No. 555,446. 5 Claims. (Cl. 24—15.)



1. A sleeve holder consisting of two members adapted to be telescoped one within the other and providing a space in which may be clamped a portion of a tucked sleeve, and a clamping device adjustable to lock the fabric in place between the telescoped members.

1,425,435. ROTATABLE BRUSH. GEORGE B. ALLEN, Atlanta, Ga. Filed Apr. 11, 1919. Serial No. 289,247. 1 Claim. (Cl. 15—25.)

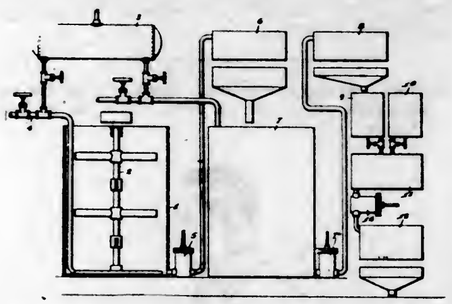


In a rotary tooth brush, the combination with a tubular handle having a rotatable shaft mounted therein, a cleaning element connected to said shaft and adapted to be rotated thereby, a coupling member mounted at the outer end of said cleaning element, of a rigid guard carried by said tubular handle and arranged adjacent said cleaning element, the outer end of said guard terminating at one side of the axis of said brush and short of the outer end of said coupling member, and a resilient bearing plate for said coupling member secured to said guard and narrowing toward its outer end and being curved inwardly and terminating approximately in alinement with the axis of the brush and provided with an opening to rotatably receive said coupling member.

1,425,436. PROCESS OF MAKING PIGMENTS. LE ROY BAKER, St. Louis, Mo. Filed July 16, 1919. Serial No. 311,296. 2 Claims. (Cl. 134—78.)

1. The process of making pigments which consists in first taking a solution of zinc sulphate, subjecting said solution to air and steam under pressure in the presence of an insoluble metallic peroxide and an insoluble metallic monoxide; second filter pressing the resulting solution;

third subjecting such solution to steam and air under pressure; fourth filter pressing the last mentioned solution; fifth mixing the last mentioned filtered solution with a

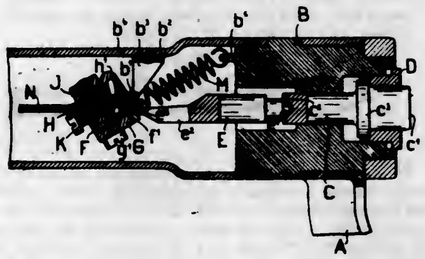


solution of barium sulphide in equal molecular proportions; sixth filter pressing the last mentioned resulting solution.

1,425,437. PROCESS OF MAKING PIGMENTS. LE ROY BAKER, St. Louis, Mo. Original application filed July 16, 1919, Serial No. 311,296. Divided and this application filed Aug. 13, 1920. Serial No. 403,209. 3 Claims. (Cl. 134—78.)

1. The process of making pigments which consists in subjecting a solution of zinc sulphate to the action of air under pressure and steam in the presence of a slightly soluble metallic peroxide and a lead mono-oxide, filter pressing said solution, and lastly precipitating said solution with a solution of barium sulphide.

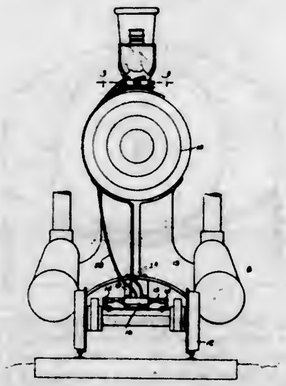
1,425,438. MEASURING INSTRUMENT. MAX BARTHOLDY, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 2, 1921. Serial No. 497,988. 4 Claims. (Cl. 33—172.)



1. A measuring instrument having a lever provided with a body, knife-edges forming bearings for said lever, a plate projecting beyond said body and forming bearing surfaces for said knife-edges, said body having an adjustable spring arm forming part of one of said bearing surfaces.

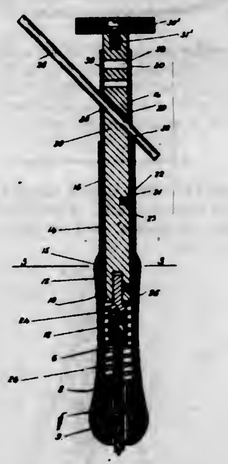
1,425,439. DIRIGIBLE HEADLIGHT. HARRY EXETER BEASLEY and WALTER BYRD, Victoria, British Columbia, Canada. Filed May 10, 1921. Serial No. 468,442. 2 Claims. (Cl. 240—62.)

1. A dirigible headlight including means for oscillating a headlight, an operating cylinder for moving said means, said operating cylinder providing a central chamber formed with an intake opening, discharge openings in said operating cylinder, said cylinder being also provided with outlet openings, valves mounted within said cylinder and arranged between said intake and discharge openings, valve stems secured to said valves and projecting beyond the ends of said cylinder, said valve stems



being formed with a reduced portion, and grooves normally permitting communication between said outlet openings and the discharge openings forming a part of said cylinder.

1,425,440. ELECTRODE HOLDER. WILLIAM C. BRIAWINGER and ROBERT F. MORGAN, Wilkes-Barre, Pa., assignors to W. H. Nicholson & Co., Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed Dec. 27, 1921. Serial No. 524,930. 5 Claims. (Cl. 219—14.)

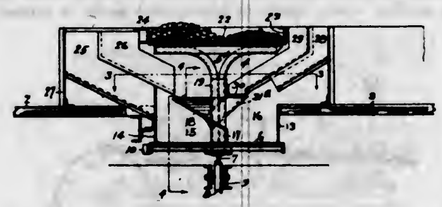


1. In an electrode holder, a supporting tube, a spring-pressed rod slidable in the said tube, said rod and tube being provided with means for holding an electrode, and a plate of insulating material secured to the outer end of the said rod and affording a means for retracting it to free the electrode.

1,425,441. PICKING TABLE. ROSS M. BICKLEY, Pittsburgh, Pa., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 24, 1919. Serial No. 340,340. 5 Claims. (Cl. 83—54.)

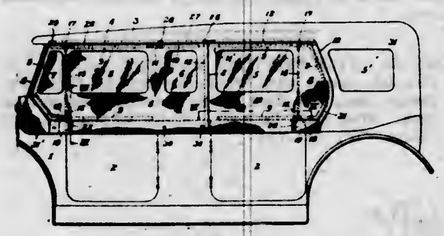
1. An annular picking-table comprising an upper and lower deck, a partition dividing the lower deck into a

plurality of annular compartments, and means for directing different kinds of refuse picked from the same



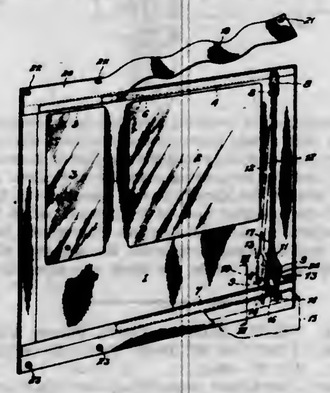
zone of said table into their respective compartments in said lower deck.

1,425,442. AUTOMOBILE INCLOSURE. GEORGE E. BISHOP, Cleveland, Ohio. Filed Oct. 2, 1919. Serial No. 327,952. 12 Claims. (Cl. 296—139.)



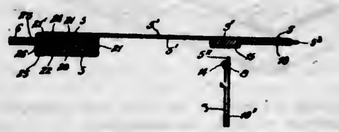
1. The combination, in an enclosed vehicle provided with a suitable body having an entrance and a door for said entrance and a canopy, of a construction of the side inclosure thereof comprising a rigid three-sided frame and enclosing material supported by said frame; and means for mounting the frame upon the vehicle door so as to open and shut with the latter, comprising a single supporting rod and a socket attachment therefor secured to the door.

1,425,443. AUTOMOBILE CURTAIN. GEORGE E. BISHOP, Cleveland, Ohio. Filed Jan. 16, 1920. Serial No. 351,826. 9 Claims. (Cl. 296—139.)



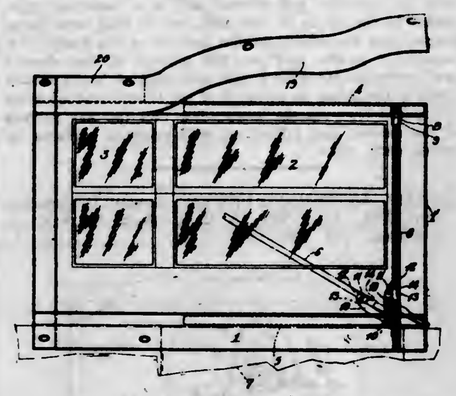
1. A vehicle side curtain comprising, suitable fabric; a strengthening frame for said fabric consisting of rigid tension members, and a vertically-disposed stretching member having two separable parts respectively pivoted to two of said tension members so as to be angularly movable relatively to said fabric, one of said parts comprising relatively pivoted upper and lower sections; and supporting means for the curtain secured to the upper of said relatively pivoted sections.

1,425,444. AUTOMOBILE INCLOSURE. GEORGE E. BISHOP, Cleveland, Ohio. Filed July 22, 1920. Serial No. 398,138. 9 Claims. (Cl. 296—139.)



1. The combination, in an enclosed vehicle having an entrance and a door for the lower part of said entrance, of a construction of the upper door-section of the inclosure consisting of, a glass outlook; a wooden frame bounding said outlook; sheet metal strengthening members covering one face of said frame and extending interiorly thereof to form a rest for one side of said outlook; means retaining said outlook against rest; suitable fabric covering said frame and sheet metal members and exteriorly overlapping the same; and rods for removably mounting the inclosure upon the vehicle door.

1,425,445. AUTOMOBILE INCLOSURE. GEORGE E. BISHOP, Cleveland, Ohio. Filed Jan. 9, 1922. Serial No. 528,100. 4 Claims. (Cl. 296—139.)

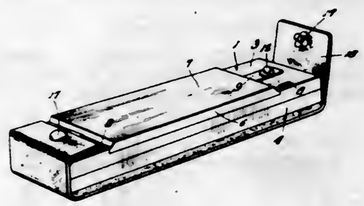


1. An automobile inclosure adapted to be mounted upon the automobile door, comprising suitable curtain fabric; strengthening members disposed longitudinally of the fabric; a vertically-disposed combination swivel and shortening member pivotally secured at one point to said fabric and at another point separably secured to said fabric, the part of said stretching member which is pivotally secured to said fabric being formed with a tubular section having a transverse recess and a communicating longitudinal recess, a portion of said shortening member consisting of a supporting rod formed with a pin intersecting said recesses, said tubular section receiving said rod.

1,425,446. COMBINATION RAZOR CASE, HONE, AND STROP. ROSSER E. BROWN, Olean, N. Y. Filed June 1, 1921. Serial No. 474,100. 1 Claim. (Cl. 51—181.)

In an article of the class described, a stock, a hone disposed against the face of the stock, a strop extending

over the other face of the stock, fastening elements carried by the ends of the strop, plates disposed against the said face of the stock and having portions overlapping



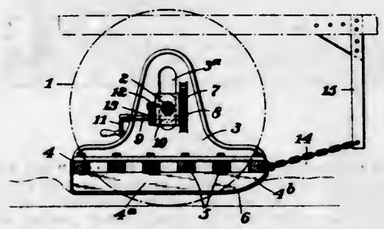
and binding the ends of the hone, and companion fastening elements securing the said plates to the stock and engageable by the fastening elements upon the strop.

1,425,447. PIN INSERTER AND REMOVER. LOWELL M. BRUNDAGE, Thompson, Pa. Filed June 7, 1921. Serial No. 475,756. 5 Claims. (Cl. 81—3.)



1. A tool of the class described, comprising a pair of jaws pivotally connected intermediate their ends and having cooperating gripping surfaces at one end, each of said jaws having a flat portion integrally connected with the opposite end thereof and in a plane at right angles to the plane of said jaw, one of said jaws being longer than the other, the flat portion of the longer jaw forming a handle and the flat portion of the shorter jaw overlying the longer jaw and adapted to be moved towards the latter by pressure of the thumb, and a spring interposed between the longer jaw and the flat portion of the shorter jaw for urging said gripping surfaces towards each other.

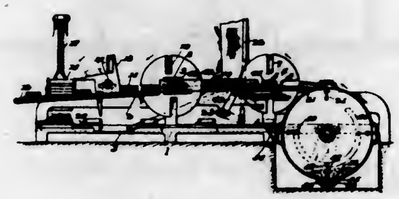
1,425,448. ANTIMIRING DEVICE. HERRON G. CARROLL, Ayr, Nebr. Filed Nov. 15, 1920. Serial No. 424,180. 1 Claim. (Cl. 280—150.)



An anti-miring attachment for tractors comprising a broad flat sled member having end standards provided with elongated slots to receive the tractor axle, racks carried by said standards, brackets adapted to be secured to the axle, shafts journaled in said brackets, gears carried by said shafts and engaging said racks, means for operating said gears, and means for locking them against movement.

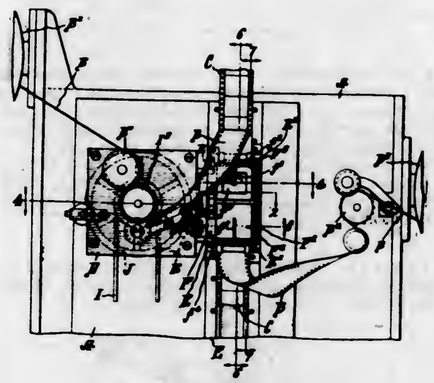
1,425,449. MOLD-HANDLING APPARATUS. EDWARD D. CARY, New York, N. Y. Filed Jan. 8, 1921. Serial No. 435,853. 15 Claims. (Cl. 25—2.)

1. The combination of a brick machine of a mold handling and conveying apparatus comprising means for delivering the molds in succession to the brick machine for filling, means for discharging the molded articles from the mold, means for delivering the empty molds to a sanding wheel, means to receive said molds in reverse



position from the sanding wheel, and mechanism for operating said last mentioned means to deliver the reverse molds in proper position to the first mentioned means.

1,425,450. FILM-PRINTING MACHINE. GASTON L. CHANIER, Jersey City, N. J., assignor to Pathé Exchange, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 12, 1921. Serial No. 490,952. 13 Claims. (Cl. 95—75.)

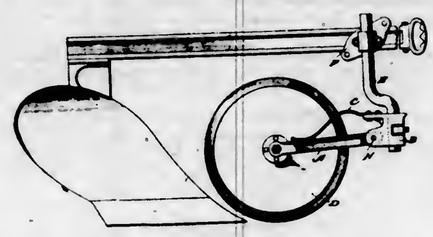


1. Apparatus for printing cinema films, comprising a partition with a light aperture therein, manually operated means for pressing the two films together in front of said aperture and for separating same as and when desired, feed mechanism for simultaneously passing the negative film and the positive film to be printed while in contactual relation past said aperture, and means for causing said feed mechanism to move the negative film only past said aperture while the films are separated.

1,425,451. PLOW. MARCELO CONTI, Buenos Aires, Argentina. Filed Nov. 29, 1920. Serial No. 427,187. 1 Claim. (Cl. 97—43.)

A plow attachment comprising, in combination, a sleeved fitting adapted for connection to a plough beam; a vertical standard extending at its upper end through said fitting and supported thereby; a sleeve mounted on the lower end of said standard; a fork pivoted at its front end to the lower rear portion of the last-named sleeve; a rolling colter journaled in the free rear ends

of the branches of the fork; and a spring attached at its front end to said last-named sleeve above the point of



pivotal connection of the fork thereto and bearing at its rear end upon the rear portion of said fork so as to yieldingly press the latter and the colter downward.

1,425,452. LENS. THOMAS W. COOPER, Montclair, N. J. Filed Sept. 24, 1921. Serial No. 502,857. 2 Claims. (Cl. 88—54.)



1. A bifocal lens formed of one piece of glass having upper and lower distance fields and a reading or near field interposed between said distance fields, said reading or near field extending clear across the lens at a point below the medial line thereof.

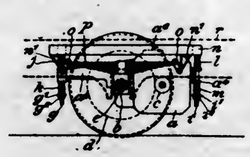
1,425,453. MATCH SCRATCHER. JOHN N. DELL, San Francisco, Calif. Filed Apr. 14, 1921. Serial No. 461,329. 1 Claim. (Cl. 44—48.)



A match scratcher comprising an open ended cylinder having an elongated slot, a screen abrading surface within the cylinder to enable matches to be lighted thereon through the slot, perforated ears extending laterally from the cylinder to connect the same to a suitable support, and upwardly projecting ears at the top and bottom of the cylinder to direct sparks from the matches struck away from the scratcher support.

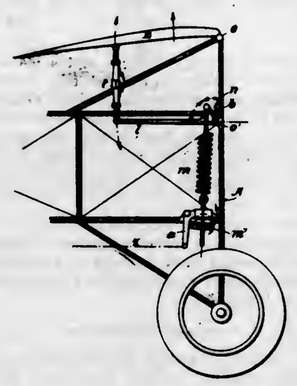
1,425,454. SUSPENSION DEVICE FOR ELECTRIC TRACTION MOTORS. CHARLES ROGER DEMOLE, Geneva, Switzerland. Filed May 23, 1922. Serial No. 563,115. 5 Claims. (Cl. 105—139.)

1. A suspension device for electric traction motors comprising in combination an intermediate frame bearing on the axle boxes by means of springs and supporting the motor, the connecting means between the motor and its supporting frame comprising springs which are adjustable in such a manner that their tension is adapted to counterbalance the force acting on the bearings by which the motor is connected to the shaft which it



drives, and which force is due to the weight and torque of the motor, whereby to diminish the wear of the bushes of said bearings.

1,425,455. MEANS FOR STABILIZING AEROPLANES. SALVATORE DE SANTIS, Naples, Italy. Filed Apr. 30, 1920. Serial No. 377,926. 1 Claim. (Cl. 244—29.)



In a flying machine, a pivoted stabilizing wing, a spring, a lever mechanism with which the spring is connected, and means for adjustably connecting the lever mechanism with the wing.

1,425,456. MEDICINE BOTTLE. NATHANIEL DIAL, New York, N. Y. Filed Sept. 30, 1919. Serial No. 327,527 1 Claim. (Cl. 215—55.)

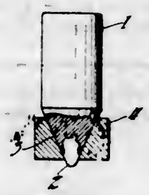


In combination, a stopper, a disk fixed to one end of the stopper and a handle formed on the edge of the disk and extending in the same direction with the stopper.

1,425,457. FOUNDRY MOLDING MATERIAL. FREDERICK G. DOKKENWADEL, Coshocton, Ohio. Filed Feb. 23, 1921. Serial No. 447,234. 1 Claim. (Cl. 22—188.)

The herein described foundry molding material comprising molluskite, 3 parts; and graphite, 1 part.

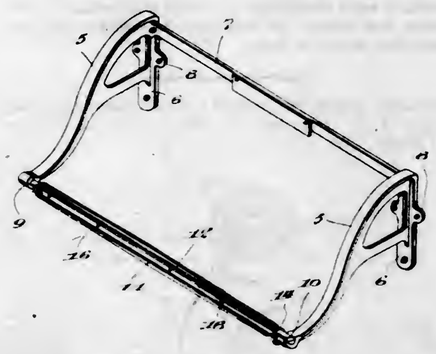
1,425,458. STYLUS MOUNTING. THOMAS A. EDISON, Llewellyn Park, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Dec. 11, 1919. Serial No. 344,093. 4 Claims. (Cl. 274—38.)



1. The method of reinforcing a stylus mounting comprising a holder having a reduced end portion and a stylus partially enclosed in the holder and projecting from the end of said portion, which consists in forming a collar with an opening therethrough the wall of which conforms to said reduced end portion, heating said collar, and then forcing the same while hot onto the reduced end portion of the holder, substantially as described.

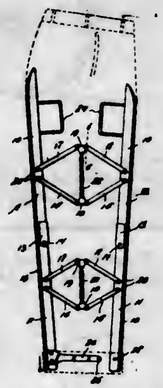
4. A stylus mounting comprising a holder having a reduced end portion, a stylus partially enclosed in said holder and projecting from the end of said portion, and a collar shrunk on the said reduced end portion, substantially as described.

1,425,459. TOWEL RACK. OTTO H. EGGERT, Chicago, Ill. Filed May 19, 1921. Serial No. 470,759. 1 Claim. (Cl. 45—13.)



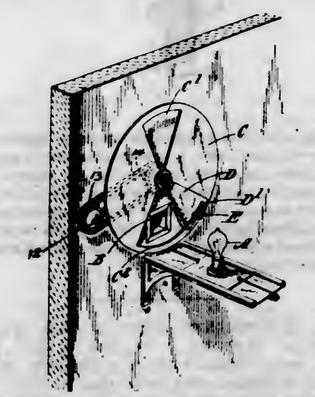
A towel-rack comprising a pair of laterally spaced bracket arms having attaching means at their inner ends and bearings at their outer ends, the bearings of one of the arms being open, a towel-supporting cross bar supported and secured at its ends in said bearings, a towel-clamping bar extending parallel to the supporting bar, said supporting bar being spaced intermediate its ends from the clamping bar and having end portions which are offset inwardly toward the clamping bar for engagement thereby, said clamping bar seating removably in the bearings, and the offset end portion of the supporting bar which seats in the open bearing projecting from said bearing, and a lock applied around said projecting offset end portion and the contiguous end portion of the clamping bar.

1,425,460. PRESSING DEVICE. HOWARD A. ELLIOTT, Altoona, Pa. Filed Dec. 5, 1921. Serial No. 520,082. 3 Claims. (Cl. 223—19.)



1. A trouser stretcher comprising a pair of opposed stretcher members, toggles connecting said members, each toggle including opposed pairs of links having their corresponding outer extremities pivotally connected with said member, plates arranged between the adjacent extremities of said links and pivotally associated therewith, a tongue projecting from each plate, and a spring terminally connected with said tongues, whereby said stretcher members are susceptible of self adjustment within a trouser leg for the purpose specified.

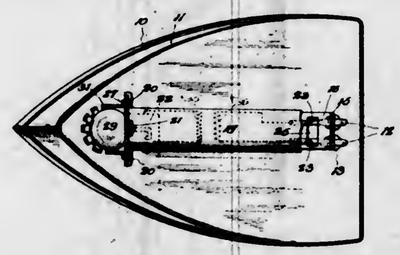
1,425,461. APPARATUS FOR PRINTING MOTION-PICTURE FILMS. HENRY RIEGEL EVANS, London, England; Adele Kean Evans executrix of said Henry Riegel Evans, deceased. Filed June 1, 1915, Serial No. 31,331. Renewed Jan. 7, 1922. Serial No. 527,800. 5 Claims. (Cl. 95—75.)



1. In printing apparatus for motion pictures, the combination of an exposure window, means for moving past said window a film having different sets of pictures

thereon to be reproduced in colors, a source of light the rays from which are directed upon said window, and means for so varying the printing effect of the light falling upon said window that it passes through a periodically recurring cycle of changes which synchronize with the changes of the pictures of the different sets appearing at the window.

1,425,462. PILOT SIGNAL FOR ELECTRIC HEATING DEVICES. RAY P. FARRELL and CLAUDE E. MOON, Oxnard, Calif. Filed Oct. 16, 1920. Serial No. 417,383. 3 Claims. (Cl. 177—311.)



1. In an electric iron, the combination of circuit posts with a heating element of the iron, handle bracket arms carried by the iron, a transformer having primary and secondary windings, said primary winding being electrically connected with said posts, a pilot lamp in circuit with the secondary winding of the transformer, a casing for said transformer adapted to fit between said arms, said casing having lugs engaging said arms and bolts for holding said arms and casing together.

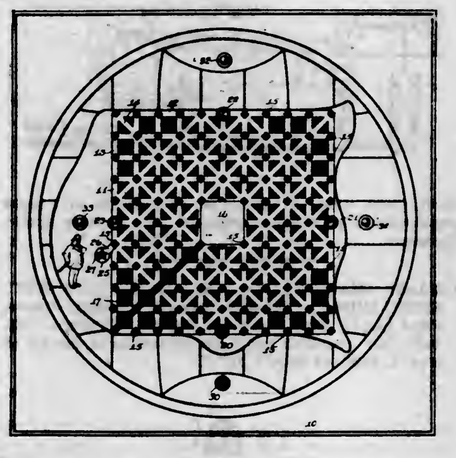
1,425,463. SAFETY RAZOR. JOSEPH WILLIAM FISCHER, Brooklyn, N. Y. Filed Oct. 5, 1920. Serial No. 414,826. 4 Claims. (Cl. 30—12.)



1. In a safety razor, a base provided with a supporting member having a raised portion terminating short of its rear edge, a blade adapted to rest upon the raised portion and provided with a back having members of different widths overlying the blade, the members of the back being of the same thickness as the raised portion and either adapted to rest on the supporting member and abut against the rear end of the said raised portion, a clamping member engaging a back member of the blade and the blade adjacent to its cutting edge, means for securing the clamping member in position, and a handle for supporting the base.

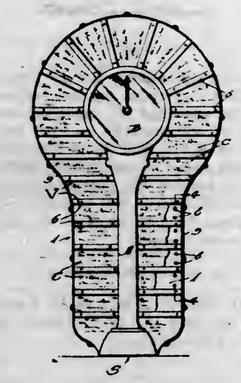
1,425,464. GAME. JOSEPH WILLIAM FISCHER, Brooklyn, N. Y. Filed Feb. 26, 1921. Serial No. 447,990. 4 Claims. (Cl. 46—21.)

1. A game comprising a game board and members adapted to be moved over the said board by the players, the board having a main field provided with intersecting vertical, horizontal, and diagonal pathways for the said members to be moved on, a barrier extending across a portion of the said field from the border of the said main field, spaced starting stations at the said main field and of which one is located to one side of the



said barrier and is for one of the said members to start from; the remaining stations being for the other members to start from, and a goal on the other side of the said barriers.

1,425,465. WEIGHING-SCALE ATTACHMENT. KENNETH GRAY FISHER, Tacoma, Wash. Filed Nov. 15, 1920. Serial No. 424,240. 2 Claims. (Cl. 40—125.)

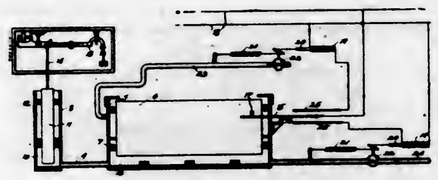


1. A device of the class described comprising a signboard for attachment to a public weighing scale, said board comprising a pair of symmetrical half-sections having their inner edges shaped to fit snugly against the edges of the scale, brackets for retaining said sections together, and means carried by said brackets for retaining the sections in position on the scale.

1,425,466. SCALE. JOHN FRAME, Searsport, Me. Filed Oct. 5, 1920. Serial No. 414,783. 5 Claims. (Cl. 265—43.)

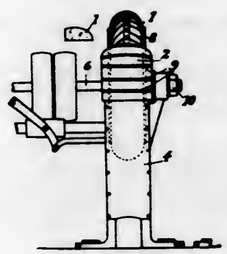
1. A scale, including a pair of connected tanks, a platform within one of said tanks, a float within the second of the same, a scale associated with said float, said tanks being adapted to receive fluid for permitting a suspension of both said platform and float within their re-

spective tanks, and mechanism connected with said platform and controllable thereby for permitting the intro-



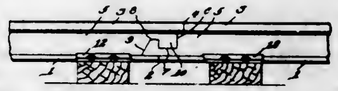
duction and escape of additional fluid within said tanks proportionate to the movement of the members within the same.

1,425,467. MACHINE FOR UNGRAINING AND SOFTENING HIDES. CLAUDIUS FRANSON, Annonay, France. Filed Apr. 11, 1921. Serial No. 460,605. 2 Claims. (Cl. 149—16.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



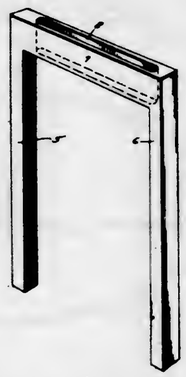
1. A cutter carrying cylinder for machines for softening hides and blades arranged on the periphery thereof, said blades being arranged in opposing sets with the blades of each set substantially parallel and extending from one edge of the carrier in a straight line at an angle to the axial plane of the carrier and projected at their inner ends beyond the corresponding inner ends of the other set of blades, the operative edges of the blades curving from the side edges of the carrier toward the peripheral center thereof.

1,425,468. RAIL JOINT. CHARLES W. GASKEY, Greensburg, Pa. Filed Jan. 9, 1922. Serial No. 528,023. 1 Claim. (Cl. 238—236.)



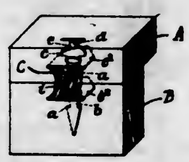
In a rail joint, the combination of the contiguous end portions of two rails, both of the said rails having the ends of their bases square and opposed to each other, and both rails having mitered opposed ends on their heads and the upper portions of the webs, and one of the rails having a notch in front of its mitered web portion and a tongue in front of said notch and extending beyond the square end of the base, and the other rail having a tongue on its web to take into the notch of the first-named rail and also having a notch back of the said tongue to receive the said tongue of the first-named rail, whereby the rails may be moved laterally into interlocked and alined relation and cannot be disconnected or moved relatively to each other except by a reverse lateral movement.

1,425,469. ELECTRIC STORAGE BATTERY. WALTER LAWRENCE GILL, San Bernardino, Calif. Filed Sept. 30, 1920. Serial No. 413,749. 4 Claims. (Cl. 204—29.)



2. A separator for storage batteries of inverted U shape consisting of a transverse connecting head and a pair of legs depending from the opposite ends of said head, said legs and said head being of uniform width throughout and said head having an opening formed therethrough, the space between said legs being free and unobstructed throughout the width of the separator and said separator being of a thickness to bear against the confronting faces of adjacent plates throughout the height and across the top portions of said plates.

1,425,470. JOINT BINDER. EDOUARD CHARLES GLARDON, Hamburg, Germany. Filed Aug. 9, 1920. Serial No. 402,490. 6 Claims. (Cl. 217—70.)

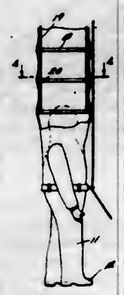


1. In a joint binder the combination with a U-shaped clamp, the two shanks of which are perforated and adapted to enter the two members to be secured together, of a nail adapted to be driven into the said two members and through the perforation of the shanks, an extension provided at the head portion of the nail for receiving the blows of a hammer or other instrument used in driving home the nail, said extension being weakened at its base, substantially as described and for the purpose set forth.

1,425,471. APPARATUS FOR SUBMARINE WORK. ARTHUR B. HANSEN, New York, N. Y. Filed Apr. 14, 1920. Serial No. 373,752. 1 Claim. (Cl. 61—68.)

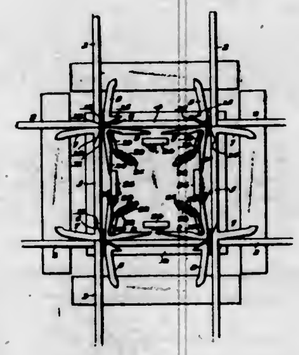
An apparatus for submarine work including a waterproof suit having an open upper end and a continuous flexible and collapsible tubular extension communicating

with said upper end, spaced annular braces secured within said extension that maintain the same distended when submerged, a flexible connection between the upper and lowermost braces constituting a means for limiting the relative separation of said upper and lowermost braces whereby the weight of the suit and diver is supported



by the flexible connection, the intermediate braces having eyes through which said connection is trained to prevent relative twisting of the braces and the extension, a belt secured around the intermediate portion of the suit, and a forwardly presented eye carried by the belt adapted to receive the intermediate portion of an adjustable hauling line.

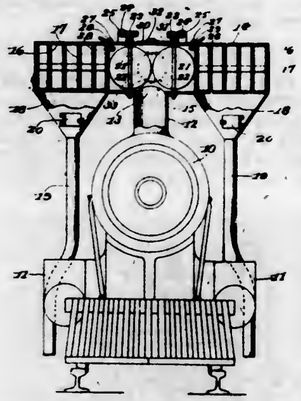
1,425,472. RAILWAY CROSSING. JAMES HARRIS HARDY, Crawford, Miss. Filed Oct. 25, 1921. Serial No. 510,273. 5 Claims. (Cl. 246—380.)



5. A railroad crossing including intersecting main line rails, guard rails at each main line rail intersection, movably supported guard rail sections, and resilient toggle means connected with the movable guard-rails for automatically throwing and locking the latter in one position or another according to the direction in which the joint of the toggle passes its dead center.

1,425,473. SPARK CONDUCTOR. WADE H. HATCHER, Stuart, Va. Filed Apr. 5, 1922. Serial No. 549,890. 3 Claims. (Cl. 183—34.)

1. A spark arrester and conductor for a locomotive comprising a transverse conduit mounted on the upper end of the stack of a locomotive and communicating therewith, means in the ends of the conduit for grading the cinders, means below and connected with the conduit

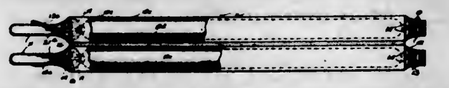


for receiving the cinders, and means for controlling the flow of smoke and cinders to the opposite ends of the conduit.

1,425,474. STEREOTYPING FLONG. ALFRED GEORGE HAWKINS, Hornsey, England, assignor of one-half to Associated Newspapers Limited, London, England. Filed Mar. 21, 1921. Serial No. 454,198. 5 Claims. (Cl. 91—68.)

1. A stereotyping flong having incorporated in the basic material a proportion of casein.

1,425,475. LIFE BELT. MARY HEATH, Yonkers, N. Y., assignor to Irving E. Letner, New York, N. Y. Filed Jan. 11, 1921. Serial No. 436,504. 3 Claims. (Cl. 9—17.)



1. As a new article of manufacture, a belt of the class described including an inflatable body, an inflating tube on the body adjacent to an end thereof, the tube projecting beyond the end of said body, a billet at that end of the body adjacent to the inflating tube and presenting a longitudinally disposed pocket for receiving said tube, and a coacting member on the body at the opposite end from the billet to engage the latter for fastening the belt about the wearer.

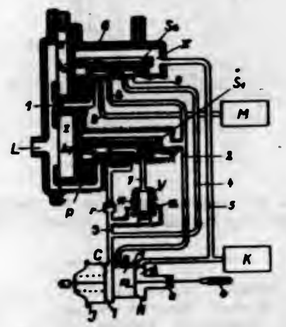
1,425,476. SPARK PLUG. FRANK A. HENKLS, Pomona, Calif. Filed Aug. 3, 1920. Serial No. 400,928. 2 Claims. (Cl. 123—169.)



1. The combination in a spark plug, of a metallic bushing chambered at its inner end, a main electrode extending through and insulated from said bushing, and steel

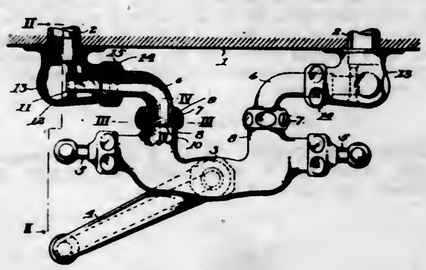
bristles disposed in a plane extending at right angles to the length of the bushing and main electrode, interposed between said bushing and electrode at the mouth of the chamber and carried by one of said elements and separated by a gap bordered by free bristle ends all in the same plane from the other element.

1,425,477. TRIPLE VALVE FOR SINGLE-CHAMBER COMPRESSED-AIR BRAKES. WILHELM HILDEBRAND, Berlin-Lichtenberg, Germany, assignor to Handel Maatchappij H. Albert De Bary & Co., Amsterdam, Netherlands, a Dutch Company. Filed Aug. 26, 1921. Serial No. 495,513. 2 Claims. (Cl. 303—39.)



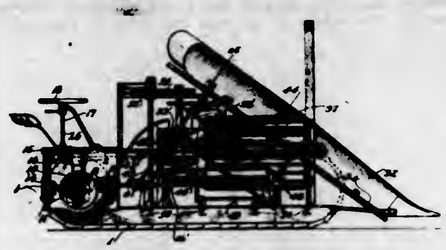
1. In a triple valve for a single chamber compressed air brake, a slide valve for controlling the operation of applying the brake and a second slide valve for controlling the operation of releasing the brake and two pistons for operating respectively the said slide valves, means whereby one side of each of said pistons is subjected to the pressure in the main train pipe the other side of one piston to one chamber of the auxiliary air reservoir and the other side of the second piston to the other chamber of the said auxiliary air reservoir, substantially as and for the purpose specified.

1,425,478. ADJUSTABLE MIXING FAUCET. OTTO G. HITCHCOCK, Erie, Pa., assignor to Hays Manufacturing Co., Erie, Pa., a Corporation of Pennsylvania. Filed April 14, 1922. Serial No. 552,708. 5 Claims. (Cl. 277—18.)



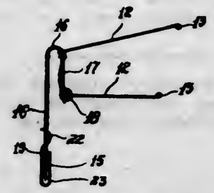
1. A mixing faucet, comprising a mixing chamber, a discharge spout therefor, fittings adapted to be attached to separate inlet pipes, and means connecting said mixing chamber and fittings permitting longitudinal adjustment therebetween but preventing relative rotary movement.

1,425,479. CANE-HARVESTING APPARATUS. CLAUDE C. HOBSON, Kenwood Park, Iowa, assignor of one-half to Oto O. Hobson, Vinton, Iowa. Filed Feb. 11, 1921. Serial No. 444,140. 10 Claims. (Cl. 56—17.)



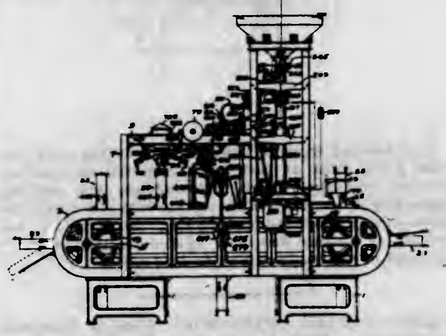
1. In an apparatus for extracting juices from the cane, the combination of a support adapted to be advanced over the field, cane cutting mechanism mounted thereupon, and means mounted upon the support and adjacent thereto for pressing and thereby extracting the juices from the can subsequent to the cutting operation.

1,425,480. BOUTONNIÈRE HOLDER. ALBERT HOFFMANN, Corona, N. Y. Filed May 1, 1922. Serial No. 557,589. 3 Claims. (Cl. 24—6.)



1. A boutonnière support comprising an inelastic pliable wire having rounded ends, a pin having means for engaging said wire intermediate its length, and means for securing said pin when adjusted.

1,425,481. BAG-FILLING MACHINE. CHARLES H. HOWARD, Saugus, Mass., assignor to Paper Products Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 26, 1918. Serial No. 259,882. 31 Claims. (Cl. 93—6.)

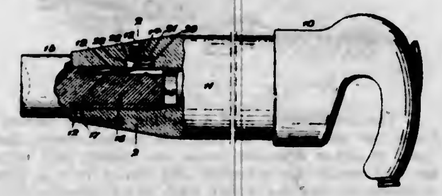


1. A machine of the character described, comprising, in combination, means to introduce a charge of material into a container, means automatically to apply a cap to the charge in the container, and means automatically to

secure the upper end portions of the container to the outer face of said cap to close the container.

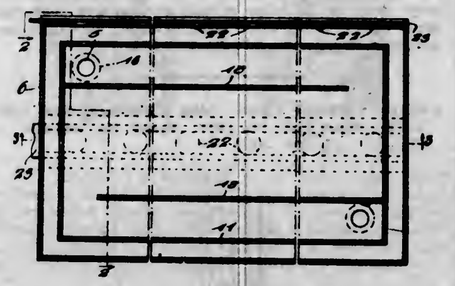
9. A machine of the character described comprising, in combination, a holder for a bag having spaced side walls positioned to receive a bag therebetween, said walls having their upper ends substantially flush with the upper folded end of the bag, cover sections pivotally mounted upon the upper ends of said walls and positioned to fold downwardly about their pivots and towards each other to impart a similar folding movement to upwardly extending portions of the bag, and means for automatically moving said sections to the folded position.

1,425,482. RETAINING DEVICE FOR A RIVETING SET. THOMAS J. JAMES, Philadelphia, Pa., assignor to Thomas Thompson, Philadelphia, Pa. Filed Nov. 10, 1919. Serial No. 336,989. 1 Claim. (Cl. 121—32.)



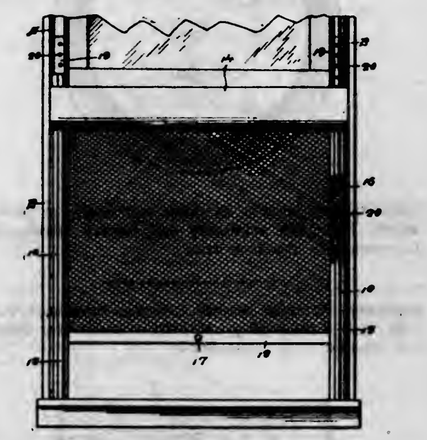
The combination with the barrel of a riveting hammer provided with a bore, the bore being formed with a longitudinal channel on one side and with a recess diametrically opposite the channel, the walls of the recess forming shoulders, of a tool holder including a longitudinal rib engaging the channel and itself having a longitudinal channel diametrically opposite the rib, a resilient element in the channel last named, an engaging device on the resilient element and proportioned for reception within the channel last named prior to movement into the recess for engaging the shoulders, the recess being proportioned to permit of limited longitudinal movement of the tool holder, and a spring mounted element countersunk in the body of the barrel and movable radially of the tool holder for forcing the engaging device into the channel to free the tool holder.

1,425,483. AUTOMOBILE HEATER. WILFRID JEAN, Lowell, Mass. Original application filed July 21, 1919, Serial No. 312,190. Divided and this application filed Apr. 22, 1920. Serial No. 376,112. 2 Claims. (Cl. 257—136.)



2. An automobile heater comprising a shallow casing provided at its upper edge with a lateral flange, a grating secured to said flange, a relatively small shallow casing within said first named casing, a plurality of horizontal bars secured to the upper side of said relatively small casing and bent upwardly at the ends thereof to form supporting arms, the upper ends of said arms being bent laterally outward and secured between said grating and the lateral flange of said first named casing, said relatively small casing having an exhaust gas inlet and an exhaust gas outlet.

1,425,484. WINDOW SCREEN. AMANDA JENKINS, Winamac, Ind. Filed Mar. 21, 1921. Serial No. 454,089. 1 Claim. (Cl. 156—39.)



A window screen device comprising a casing secured transversely of the window frame at the intermediate portion thereof, a spring roller within said casing, a sheet of wire screen secured to and adapted to be wound upon said roller, a pair of upright channeled guide members located at opposite sides of the window frame and extending throughout the lengths thereof, rigid strips slidable within said guide members and each carrying spaced pins arranged longitudinally thereof, the side edges of unwound portions of the screen extending into said guides with the mesh of the screen engaged upon adjacent pins, said guides having their forward walls offset to define grooves for the accommodation of the pins, and a stiffening bar at the lower edge of the screen and provided with a handle.

1,425,485. FASTENING DEVICE FOR WEARING APPAREL AND THE LIKE. SAMUEL EVERETT JOHNSTON, Edinburgh, Scotland. Filed June 14, 1921. Serial No. 477,523. 5 Claims. (Cl. 24—224.)

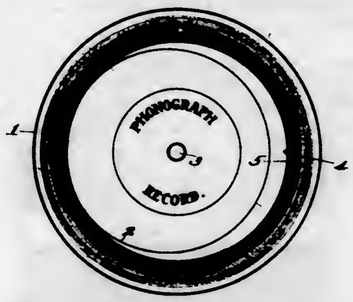


1. In a fastening device, in combination, a stud member, a socket member, spring gripping members forming part of said socket member and having upwardly curved mutually approaching surfaces, a transverse member formed integral with said spring members and extending transversely across the same and means for attaching said socket member to a garment by sewing.

1,425,486. PHONOGRAPH RECORD. THOMAS DOUGLAS JONES and JOHN H. BARR, Kansas City, Mo.; Mary Barr executrix of said John H. Barr, deceased. Filed Feb. 7, 1921. Serial No. 443,002. 2 Claims. (Cl. 274—42.)

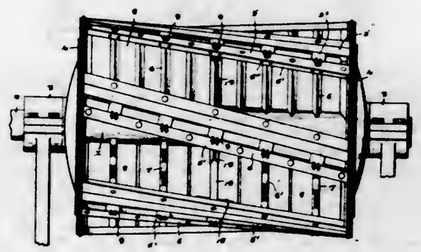
1. A phonograph disk record provided on its face within the space surrounded by the sound reproducing grooves,

with a scoring or groove for receiving the needle of the tone arm after the needle has completed its inward



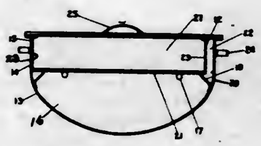
travel in said grooves, to cause said needle to move inwardly and then outwardly and impart corresponding movements to the tone arm.

1,425,487. WATER MOTOR. GEORGE JORGENSON, Fargo, N. Dak. Filed May 13, 1921. Serial No. 469,293. 3 Claims. (Cl. 170—152.)



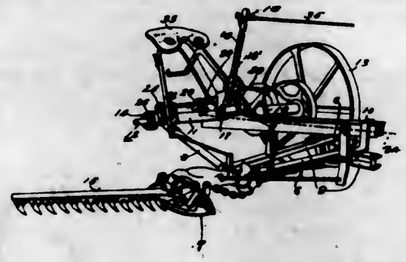
1. A wheel of the class described comprising a shaft, end pieces carried thereby, longitudinally extending strips secured to the peripheries of the end pieces and arranged in groups, two rows of posts extending between the shaft and the strips of each group and hinged doors for closing the spaces between the posts of the front row and arranged to contact with the posts of the rear row when in open position.

1,425,488. ASH SIFTER. GEORGE KABUSECK, Hartford, Conn. Filed Oct. 29, 1921. Serial No. 511,332. 2 Claims. (Cl. 83—60.)



1. In combination in an ash sifter, a body, a container for being received within said body, and a cover for said body, said body comprising a relatively elongated upper portion and having a rounded bottom that merges at the upper ends with the end walls of said upper portion, said container fitting loosely within said upper portion and being appreciably shorter in overall length than the distance between said end walls so as to permit of relative endwise movement, and cooperating supporting means on said upper portion and container for permitting of such endwise movement responsive to a rocking movement of the sifter structure while supported by said rounded bottom.

1,425,489. MOWING MACHINE. CHARLES ROBERT KEAGLE, Joliet, Ill. Filed Apr. 26, 1920. Serial No. 376,738. 8 Claims. (Cl. 56—273.)



1. The combination with a mowing machine having a cutter bar adapted to be raised to an inoperative position; of power operated means for raising said cutter bar and means for releasing said device from a point in advance of and not within reach of an operator of the mower.

1,425,490. VANITY-CASE PARTITION. WILLIAM G. KENDALL, Newark, N. J. Filed Dec. 1, 1920. Serial No. 427,583. 2 Claims. (Cl. 132—83.)



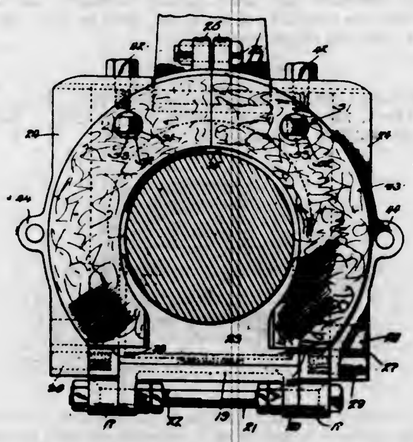
1. A vanity case partition comprising a base and an upstanding partition portion, the latter of two-ply form, and rests at the ends of the said upstanding partition portion comprising tongue parts folded back against the outer faces of the plies of said portion and above the upper edge of the portion being extended outwardly and upwardly in opposite directions.

1,425,491. BRIEF CASE. MAX KLOMSERS, New York, N. Y. Filed July 21, 1921. Serial No. 486,420. 4 Claims. (Cl. 190—43.)



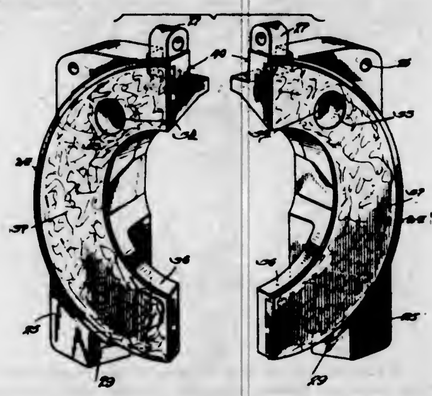
1. In a brief case, an edge strip for connecting the front and back walls formed with thickened pressed corners shaped to collapse when folding.

1,425,492. LOCOMOTIVE DRIVING BOX. ARTHUR T. KUEHNER, Elkridge, Md. Filed July 12, 1920. Serial No. 395,691. 15 Claims. (Cl. 64—25.)



15. A journal box including a box body provided adjacent its outer side with pedestal flanges, a face plate detachably seating against the outer side of the box body and provided at its lower end with yokes overhanging the face plate at its inner side to coact with said flanges for limiting the plate against upward movement, and means coacting with said yokes locking the plate against outward movement away from the box body.

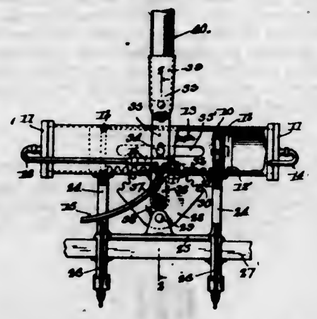
1,425,493. LOCOMOTIVE DRIVING BOX. ARTHUR T. KUEHNER, Elkridge, Md. Filed July 17, 1920. Serial No. 397,000. 6 Claims. (Cl. 64—25.)



1. A journal box including a box body, a face plate secured to the outer side of the box body and providing a continuous annular hub bearing, and means extending through the box body connecting the face plate therewith and retractable to permit removal of the face plate in a plane parallel to the adjacent face of the box body.

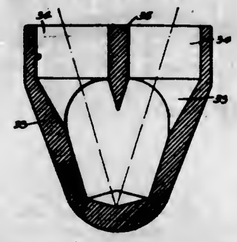
1,425,494. PNEUMATIC PUMP. AUGUST KUETHER, Milwaukee, Wis. Filed Mar. 21, 1921. Serial No. 454,116. 7 Claims. (Cl. 230—27.)

1. In a pump, the combination of a cylinder, a pair of pistons in said cylinder, a connection between said pistons, a slot in said cylinder intermediate said pistons, a member extending through said slot and cooperating



with said connection to reciprocate said pistons, and a lever pivotally connected with said member to actuate the same.

1,425,495. RETURN END AND METHOD OF MAKING SAME. ROBERT ABSALOM THOM, Manchester, England, assignor to The Superheater Corporation Limited, London, England. Filed Aug. 26, 1919. Serial No. 320,054. 6 Claims. (Cl. 29—157.6.)



1. A return end or coupling for pipes, comprising a weldless block of wrought metal having a passage formed of two substantially parallel holes adapted for connection with the pipes, said holes being separated by a bridge piece formed integral with the block, and two holes arranged at an angle to each other and communicating with each other at one end and operatively connected with the aforesaid holes at the other end.

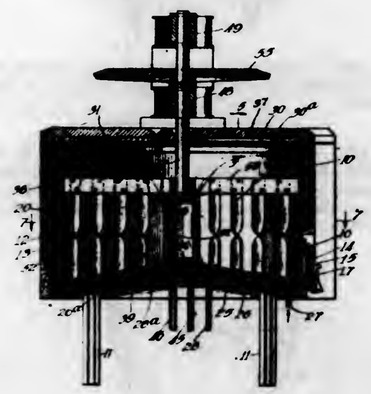
1,425,496. GEARING. ERNEST R. HUNTLEY, Milwaukee, Wis., assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed July 6, 1920. Serial No. 394,075. 9 Claims. (Cl. 74—36.)



1. In a gearing of the class described, the combination of a wheel and a rotatable member having its axis of ro-
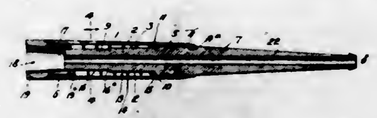
tation transverse to that of the wheel, said wheel having its periphery convex in cross section and provided with a set of teeth, each tooth being on a line of constantly increasing angularity with the axis of said wheel, and said member having its crown face concave and provided with teeth for meshing with said wheel teeth, each tooth of said wheel having complete bearing on the corresponding tooth of said member only when positioned at proximately the middle point of said member tooth.

1,425,497. APPARATUS FOR MANUFACTURING DEXTRIN. JOSEPH J. MERRILL, Chicago, Ill., assignor to Corn Products Refining Company, a Corporation of New Jersey. Filed Nov. 2, 1917. Serial No. 199,867. 9 Claims. (Cl. 127—10.)



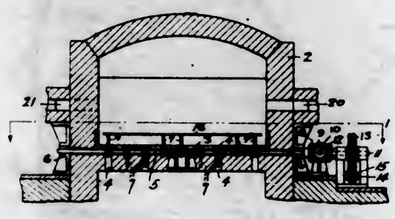
1. In apparatus for the manufacture of dextrin, the combination of a dextrinizing vessel and a rotary agitator therein provided with a plurality of blades, the upper and lower end portions of each blade standing at an angle to each other and the corresponding end portions of the blades being substantially parallel one with another, whereby one set of end portions acts upon the material positively and moves the same in one direction and the other set acts upon the material positively and moves the same in the opposite direction.

1,425,498. CIGAR AND CIGARETTE HOLDER. RICHARD F. GREENWOOD, Brooklyn, N. Y., assignor to Apex Specialties Corporation, a Corporation of New York. Filed Dec. 10, 1921. Serial No. 521,358. 5 Claims. (Cl. 131—10.)



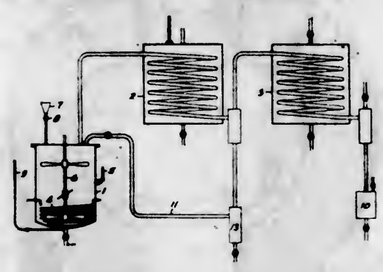
3. A cigarette holder embodying, in combination, a two-piece outer member, comprising a sleeve and an end-receiving cap removably secured thereto, said outer member having between its ends a bore increased in diameter and at each end of said increased bore having a communicating bore reduced in diameter, one of which contracted bores is formed in the sleeve and the other in the removable cap; and a one-piece inner member releasably retained in sliding engagement with the outer member by said cap, and comprising a mouth-piece and plunger having a draft bore; said inner member having between its ends a portion increased in diameter to fit within the said enlarged bore in the outer member and to be releasably confined therein by said removable cap, and a spring abutting at one end against the enlarged portion of the inner member and at the other end against the cap.

1,425,499. HEAT-TREATING APPARATUS. HARRY A. LEWIS, Norristown, Pa. Filed Oct. 23, 1919. Serial No. 332,607. 9 Claims. (Cl. 214—18.)



9. In heat-treating apparatus the combination of a furnace having a false bottom, a plurality of rows of slots formed in the said false bottom, shafts mounted beneath the said rows of slots and transversely to the individual slots, means for rotating the said shafts, and discs eccentrically mounted on the said shafts and adapted when the said shafts rotate to project up through the said slots and to directly engage and support the work during a portion of their movement, the discs on each shaft being set alternately at two different angles on their shaft, and the discs on each shaft being staggered with relation to the discs on the adjoining shafts.

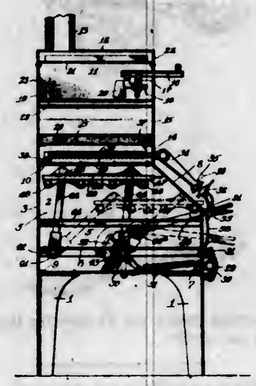
1,425,500. MANUFACTURE OF ACETIC ANHYDRIDE. HOWARD W. MATHESON and GEORGE E. GRATTAN, Shawinigan Falls, Quebec, Canada, assignors to Shawinigan Laboratories Limited, Montreal, Quebec, Canada. Filed Apr. 25, 1918. Serial No. 230,807. 9 Claims. (Cl. 23—24.)



1. A process for the manufacture of acetic anhydride, which comprises passing acetylene through acetic acid of 96% to 100% concentration at a temperature of from 60° centigrade to 200° centigrade in the presence of a finely divided salt of mercury.

1,425,501. HOTEL BROILER. HENRY C. MAUL, Detroit, Mich., assignor to The Michigan Stove Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 8, 1919. Serial No. 316,098. 13 Claims. (Cl. 126—41.)

1. A cooking range having uninterrupted side walls so that ranges may be placed in contact side by side, a front inclined wall provided with an opening, a burner unit for the cooking range and entirely in front of said range, said unit comprising an inverted U-shaped manifold adapted to be supported in a plane parallel to said front inclined wall and receive gas at either end thereof, said manifold extending along the upper and side edges of the front



wall opening, and a plurality of burners carried by the top of said manifold and disposed in a plane at an obtuse angle to the plane of said manifold.

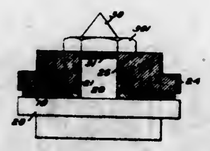
REISSUES.

15,428. LOCKING DEVICE FOR AUTOMOBILE WHEELS. ARTHUR M. CUMMINGS, Aberdeen, Md. Filed Mar. 28, 1922. Serial No. 547,545. Original No. 1,390,674, dated Sept. 13, 1921, Serial No. 319,492, filed Aug. 23, 1919. 9 Claims. (Cl. 70—90.)



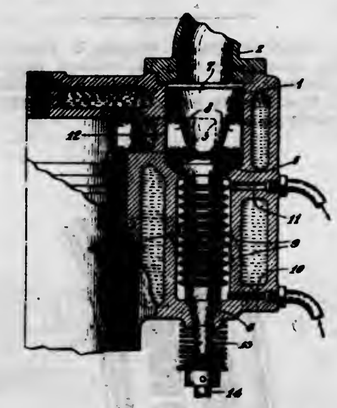
1. An anti-theft device for use with automobiles provided with pneumatic tires, comprising means adapted to be locked to a tire for preventing inflation of the tire through its valve and for preventing displacement of the device from a fixed position, said means comprising a pair of pivotally connected members adapted to embrace the tire and a socket for completely receiving and inclosing the valve end of the inflation valve tube.

15,429. FLANGED ARTICLE. EDGAR C. GEORGE, Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 15, 1921. Serial No. 485,041. Original No. 1,309,799, dated July 15, 1919, Serial No. 4,793, filed Jan. 27, 1915. 52 Claims. (Cl. 173—311.)



45. The method of producing a laminated article of manufacture having a plane portion and a substantially cylindrical continuous portion assembled from initially plane laminæ and wherein the individual laminæ extend throughout said plane portion and into said cylindrical portion, and in said cylindrical portion are circumferentially discontinuous and staggered with respect to the discontinuities of the other laminæ, which comprises distorting the initially plane laminæ to form said substantially cylindrical continuous portion.

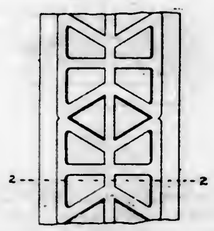
15,430. ROTARY VALVE. JOHN GOOD, Garden City, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 27, 1922. Serial No. 539,777. Original No. 1,329,521, dated Feb. 3, 1920, Serial No. 74,554, filed Jan. 27, 1916. 8 Claims. (Cl. 123—177.)



8. A rotary valve for combustion engines comprising a casing and a rotary valve member therein, said casing and member being provided with opposed, parallel dry-running, ported-surfaces concentric to the rotary axis and closely related to each other in pressureless and frictionless contact whereby said surfaces seal the port passage without the presence of lubricant, and self-centering, endwise-seating journal means for said rotary member adapted to maintain the surfaces in said relation and comprising two bearings spaced apart in the direction of the rotary axis and arranged so that displacement of said valve member, as the effect of wear, occurs principally in the direction of said axis.

DESIGNS.

61,335. ELASTIC TIRE TREAD. EDGAR O. BLEKKE, Sioux City, Iowa. Filed Mar. 26, 1920. Serial No. 369,095. Term of patent 3½ years.





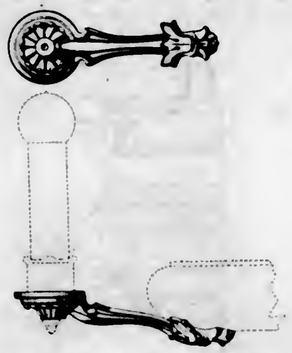
The ornamental design for an elastic tire tread as shown.

61,336. VEHICLE TIRE. WERTUS G. CURRENT, Willoughby, Ohio, assignor to The Buckeye Rubber Products Company, Willoughby, Ohio, a Corporation of Ohio. Filed Nov. 14, 1921. Serial No. 515,189. Term of patent 7 years.



The ornamental design for a vehicle tire as shown.

61,337. ARM FOR LIGHTING FIXTURES. WILFRED B. GODDARD, San Francisco, Calif. Filed July 28, 1921. Serial No. 488,248. Term of patent 3½ years.



The ornamental design for an arm for lighting fixtures substantially as shown.

61,338. KNIFE-SHARPENING DEVICE. MILTON G. GOFF, Detroit, Mich. Filed Feb. 23, 1922. Serial No. 841. Term of patent 3½ years.



The ornamental design for a knife sharpening device as shown.

61,339. COMBINED PAPER WEIGHT, CIGAR CUTTER, AND FLAG STAND. JOSEPH GOSSNER, New York, N. Y. Filed Feb. 15, 1922. Serial No. 705. Term of patent 7 years.



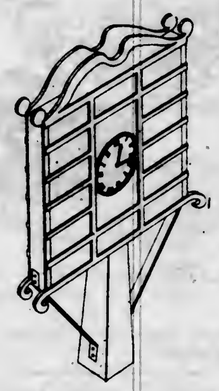
The ornamental design for a combined paper-weight, cigar-cutter, and flag-stand as shown.

61,340. POKER CHIP OR THE LIKE. GODFREY HENRY HARRIS, New York, N. Y. Filed Feb. 17, 1922. Serial No. 757. Term of patent 7 years.



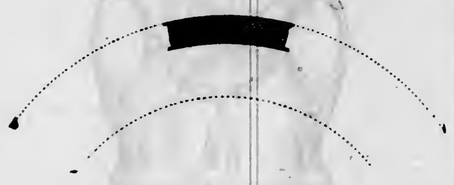
The ornamental design for a poker chip or the like, as shown.

61,341. ADVERTISING BOARD. CARL L. HERBERT, El Reno, Okla. Filed Nov. 5, 1921. Serial No. 513,187. Term of patent 3½ years.



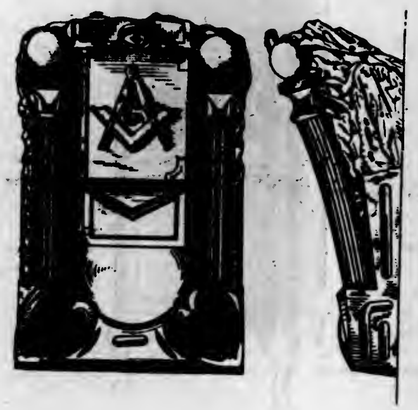
The ornamental design for an advertising board, as shown.

61,342. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,644. Term of patent 7 years.



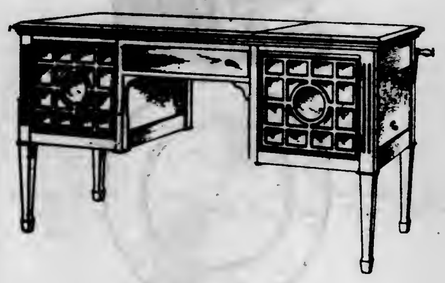
The ornamental design for a plate or similar article as shown.

61,343. COMBINATION ASH TRAY AND MATCH-BOX HOLDER. STEPHEN KRONBURGER, Jersey City, N. J., assignor to Cohan-Epner Co. Inc., New York, N. Y. Filed May 5, 1921. Serial No. 467,226. Term of patent 7 years.



The ornamental design for a combination ash tray and match box holder, as shown.

61,344. PHONOGRAPH TABLE. FRED G. MAYER, Richmond, Ind., assignor to Starr Piano Company, Richmond, Ind., a Corporation of Indiana. Filed Oct. 11, 1921. Serial No. 507,154. Term of patent 14 years.



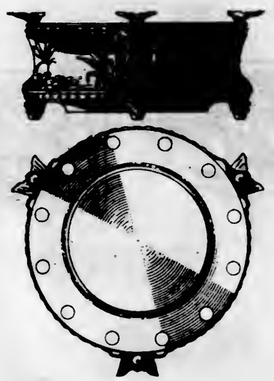
The ornamental design for a phonograph table, as shown.

61,345. PHONOGRAPH CABINET. WILLIAM H. MILLER, Chicago, Ill., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1921. Serial No. 518,463. Term of patent 3½ years.



The ornamental design for a phonograph cabinet as shown.

61,346. RECEPTACLE. PAUL MOHRMANN, Chicago, Ill., assignor to Friedley-Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed July 11, 1921. Serial No. 483,969. Term of patent 7 years.



The ornamental design for a receptacle, as shown.

61,347. SIGNAL-LAMP LENS. EDWARD S. PRESTON, Chicago, Ill., assignor to Edmunds & Jones Corporation, a Corporation of New York. Filed Oct. 12, 1921. Serial No. 507,387. Term of patent 3½ years.



The ornamental design for a signal lamp lens, as shown.

61,348. RADIATOR-CAP ORNAMENT. WILLIAM MAIR ROLPH, London, England. Filed Sept. 12, 1921. Serial No. 500,231. Term of patent 14 years.



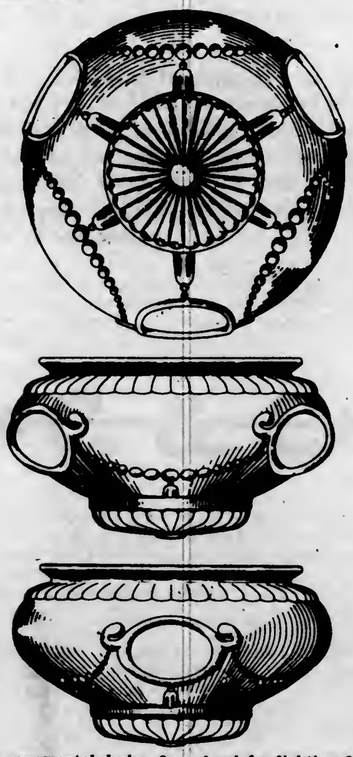
The ornamental design for a radiator cap ornament substantially as shown.

61,349. SHADE FOR LIGHTING FIXTURES. HARRY A. ROSS, Pittsburgh, and OTTO KOEHLER, Jeannette, Pa., assignors to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Nov. 8, 1921. Serial No. 513,818. Term of patent 7 years.



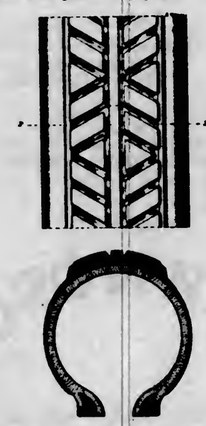
The ornamental design for a shade for lighting fixtures, as shown.

61,350. BOWL FOR LIGHTING FIXTURES. HARRY A. ROSS, Pittsburgh, and OTTO KOEHLER, Jeannette, Pa., assignors to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Nov. 8, 1921. Serial No. 513,819. Term of patent 7 years.



The ornamental design for a bowl for lighting fixtures, as shown.

61,351. VEHICLE TIRE TREAD. PARRY D. SAYLOR, Buffalo, N. Y. Filed Aug. 20, 1921. Serial No. 493,988. Term of patent 3½ years.



The ornamental design for a vehicle tire tread as shown.

61,352. BACK OF PLAYING CARDS. ISAAC T. SMITH, Rocky Mount, N. C. Filed Dec. 9, 1921. Serial No. 521,262. Term of patent 14 years.



The ornamental design for the backs of playing cards, as shown.

61,353. TRAY. MARCUS STERN, Brooklyn, N. Y., assignor to Doehler Die Casting Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 16, 1921. Serial No. 515,722. Term of patent 7 years.

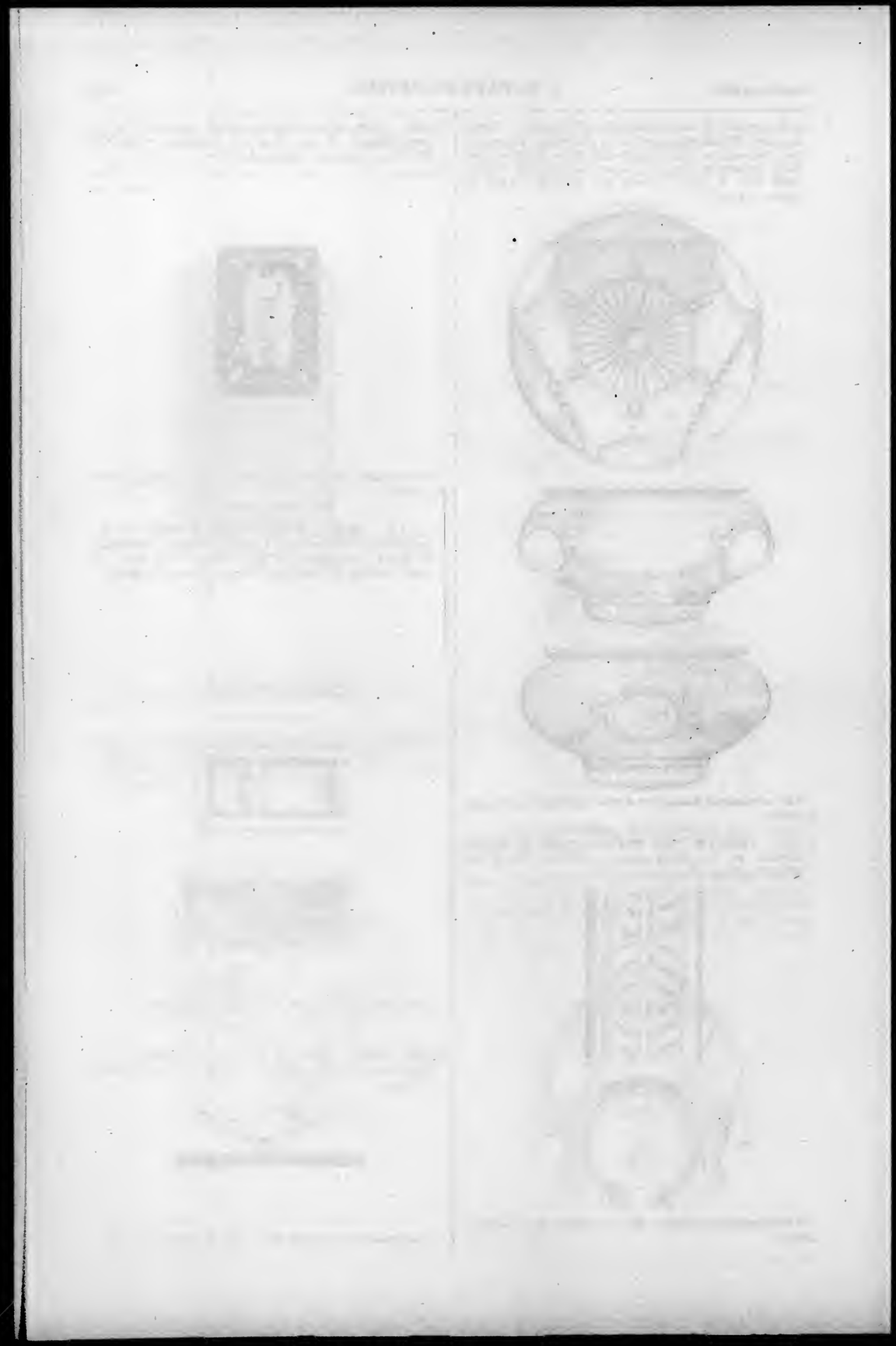


The ornamental design for a tray as shown.

61,354. RING. JOSEPH B. ULLMAN, Washington, D. C. Filed June 6, 1922. Serial No. 2,551. Term of patent 7 years.



The ornamental design for a ring, as shown.



The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 132,170. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLTON & COLLINS, INC., Oakland, Calif. Filed May 8, 1920.

C. & C.

Particular description of goods.—Ointment and Solution for Use in the Treatment of Eczema and Sirup Sanguinaria Compound, an Internal Treatment for Colds and Coughs.

Claims use since Dec. 6, 1915.

Ser. No. 136,717. (CLASS 37. PAPER AND STATIONERY.) THE NEW YORK-NEW ENGLAND COMPANY, Holyoke, Mass. Filed Sept. 1, 1920.

Artlovers

Particular description of goods.—Writing and Printing Papers and Ledger, Record, Vellum, Envelope, Text, Book, Coated, and Covering Papers.

Claims use since May 1, 1917.

Ser. No. 139,555. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE UNITED FIG & DATE COMPANY, Chicago, Ill. Filed Nov. 11, 1920.

BROWNIE

Particular description of goods.—Salted Peanuts, Salted Almonds, and Peanut Butter.

Claims use since 1902.

Ser. No. 140,309. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

GREAT CENTRAL MARKET

Particular description of goods.—Piece Goods—Namely, Muslins.

Claims use since 1904.

Ser. No. 140,367. (CLASS 15. OILS AND GREASES.) WARREN D. WILSON, Los Angeles, Calif. Filed Nov. 27, 1920.

WILTEX

Particular description of goods.—Lubricating Oil, Illuminating Oil, and Fuel Oil.

Claims use since Nov. 10, 1920.

Ser. No. 141,574. (CLASS 15. OILS AND GREASES.) IRVING PRESTON ESTY, Providence, R. I. Filed Dec. 28, 1920.

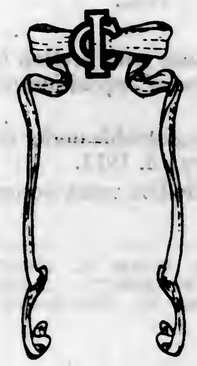
Instant Grafanol

Trade-mark "Instant Grafanol."

Particular description of goods.—Lubricating Oil.

Claims use since July, 1920.

Ser. No. 141,635. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE INDEPENDENT CHEMICAL COMPANY, INCORPORATED, Hartford, Conn. Filed Dec. 29, 1920.



Particular description of goods.—Automobile and Furniture Polish.
Claims use since Oct. 20, 1920.

Ser. No. 141,749. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BERNET, CRAFT & KAUFFMAN MILLING CO., St. Louis, Mo. Filed Jan. 3, 1921.



The shading in the drawing indicating that the letters in the word "Exquisite," the large flower immediately thereunder, and the extended paraph are red. The lines surrounding and underneath the letters, as well as the other flowers and their stems, are green, and the corolla and pistil and stamens are yellow.
Particular description of goods.—Self-Rising Wheat Flour.
Claims use since Feb. 12, 1908.

Ser. No. 142,126. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BROWNSVILLE CANNING CO., Corvallis, Oreg. Filed Jan. 12, 1921.

VALLEYVIEW BRAND

No claim is made to exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since June, 1907.

Ser. No. 147,188. (CLASS 37. PAPER AND STATIONERY.) THE DENDOC COMPANY, Milwaukee, Wis. Filed May 4, 1921.

DENDOC

Particular description of goods.—Dentists' and Doctors' Record Blanks.
Claims use since Apr. 1, 1921.

Ser. No. 148,502. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHNIE B. MATTHEWS, New York, N. Y. Filed June 1, 1921.



The words "Hand Paste" and the words "If you like it tell others" form no part of the trade-mark and are hereby disclaimed.
Particular description of goods.—Hand Paste.
Claims use since May 20, 1921.

Ser. No. 149,120. (CLASS 39. CLOTHING.) S. J. BROUWER SHOE COMPANY, Milwaukee, Wis. Filed June 14, 1921.

Muscle-tonic.

Particular description of goods.—Shoes of Leather and Cloth and Leather.
Claims use since about Oct. 1, 1913.

Ser. No. 150,811. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARDEMAN-KING CO., McAlester, Okla. Filed July 22, 1921.



Particular description of goods.—Alfalfa Feed, Horse Feed, Mule Feed, Alfalfa Molasses, Dairy Feed, Cow Feed, Hog Feed, Pig Feed, Hen Feed, Chicken Feed, Scratch Feed, Poultry Feed, Corn Meal, Wheat Flour, and Rye Flour.
Claims use since July 14, 1921.

Ser. No. 151,339. (CLASS 39. CLOTHING.) TAUBER, LIPTON & CO., New York, N. Y. Filed Aug. 3, 1921.

Slumber

Trade-mark consists of the word "Slumber."
Particular description of goods.—Men's and Boys' Night Robes and Pyjamas in One and Two Piece Garments.
Claims use since Jan. 7, 1909.

Ser. No. 153,927. (CLASS 39. CLOTHING.) ELLSWORTH & THAYER MFG. CO., Milwaukee, Wis. Filed Oct. 10, 1921.



Particular description of goods.—Fur Coats, Sheepskin Coats and Vests, and Leather and Woolskin Lined Vests.
Claims use since 1905.

Ser. No. 154,167. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Oct. 17, 1921.

THE



LADY

Particular description of goods.—Corsets, Brassières, Corset Waists, Bandeaux, and Diaphragm Confiners.
Claims use since June 27, 1893.

Ser. No. 156,055. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEN MARSALISE, doing business as B. Marsalise Chemical M'f'g. Co., De Ridder, La. Filed Nov. 29, 1921.

Marsalise
—Great—
Discovery



No claim is made for the words "Great Discovery" apart from the mark shown in the drawing.
Particular description of goods.—Liniment for Use in the Treament of Backache, Headache, Rheumatism, Swollen Hands, Legs, and Feet, Stiff Joints, Itch, Pains, and Sprains.
Claims use since June 4, 1921.

Ser. No. 156,855. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PHILIPSBORN'S, INC., Chicago, Ill. Filed Dec. 17, 1921.

NULUSTRE

Particular description of goods.—Silk, Satin, and Silk and Cotton Mixtures.
Claims use since Aug. 1, 1921.

Ser. No. 156,856. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PHILIPSBORN'S, INC., Chicago, Ill. Filed Dec. 17, 1921.

COSY COMFY

Particular description of goods.—Woolen Blankets, Comforters, and Quilts.
Claims use since Aug. 1, 1921.

Ser. No. 156,857. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PHILIPSBORN'S, INC., Chicago, Ill. Filed Dec. 17, 1921.

WASHWELL

No claim is made to "Washwell" except in connection with the mark as shown.
Particular description of goods.—Cloth Made of Cotton, Linen, Silk, or Wool.
Claims use since Aug. 1, 1921.

Ser. No. 156,977. (CLASS 37. PAPER AND STATIONERY.) D. S. WALTON & Co., New York, N. Y. Filed Dec. 20, 1921.

BLUE RIBBON

Particular description of goods.—Toilet Paper.
Claims use since January, 1902.

Ser. No. 157,850. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RADIUM COMPANY OF COLORADO, Denver, Colo. Filed Jan. 12, 1922.

RADIUM

No claim is made to the word "Radium" apart from the mark shown in drawing.
Particular description of goods.—Radium Products as a Therapeutical Agent.
Claims use since Nov. 1, 1921.

Ser. No. 157,920. (CLASS 39. CLOTHING.) FATUCH & NOGAIM, El Paso, Tex. Filed Jan. 14, 1922.

GOLDEN STAR

The letters "F & N H M" do not form a part of the registration sought apart from the mark shown.
Particular description of goods.—Children's, Women's, and Men's Hose in Cotton, Silk Fiber, Silk, Mercerized Cotton, and Woolen.
Claims use since Aug. 1, 1921.

Ser. No. 157,927. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KABUSHIKI KAISHA HIRAO SAMPEI SHOTEN, Tokyo, Japan. Filed Jan. 14, 1922.

S.P.H.&Co

Particular description of goods.—Cosmetic Preparations—Namely, Face Powder, Cream, Pomade, and Wash Powder; a White Powder Used in Toilet to Make the Skin Clean and White, Perfumed Water, and Dentifrice.
Claims use since January, 1921.

Ser. No. 157,949. (CLASS 39. CLOTHING.) J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Filed Jan. 14, 1922.

UNION MADE NATION-WIDE WORK SUIT J.C.Penney Co. A NATION-WIDE INSTITUTION SIZE LOT UNION MADE

Applicant disclaims any exclusive right to the words "Work Suit," "Size," and "Lot" apart from the mark shown in the drawing, also any exclusive right to the expression "A Nation-Wide Institution" and the words "Union Made" apart from mark shown in drawing.
Particular description of goods.—Men's and Boys' Ready-to-Wear Clothing—Namely, Overall Combination Suits Made of Khaki, Drill, Denim, and Stifel Drill Materials.
Claims use since May 1, 1921.

Ser. No. 157,950. (CLASS 39. CLOTHING.) J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Filed Jan. 14, 1922.

UNION MADE NATION-WIDE WORK SHIRT J.C.Penney Co SIZE LOT UNION MADE

Applicant disclaims any exclusive right to the words "Union Made," "Work Shirt," "Size & Lot" apart from mark shown in drawing.
Particular description of goods.—Men's and Boys' Ready-to-Wear Clothing—Namely, Work Shirts Made of Chambray and Drill Materials.
Claims use since Oct. 1, 1921.

Ser. No. 158,026. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. WANDER & SONS CHEMICAL CO. INC., Albany, N. Y. Filed Jan. 16, 1922.

STANDARD CAPITOL GRANULATED LYE

No claim is herein made to the words "Granulated Lye."
Particular description of goods.—Lye for Sanitary, Household, or Domestic Use.
Claims use since on or about Jan. 1, 1918.

Ser. No. 158,139. (CLASS 39. CLOTHING.) J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Filed Jan. 19, 1922.

UNION MADE NATION WIDE OVERALL J.C.Penney Co. A NATION-WIDE INSTITUTION Lot Age Size UNION MADE

Applicant disclaims any exclusive right to the expression "A Nation-Wide Institution" and the words "Union Made" apart from the mark shown on drawing. Applicant further disclaims any exclusive right to the words "Overall," "Lot," "Age," and "Size" apart from the mark shown in the drawing.
Particular description of goods.—Men's and Boys' Ready-to-Wear Clothing—Namely, Overalls Made of Drill and Denim Material.
Claims use since May 1, 1921.

Ser. No. 158,495. (CLASS 37. PAPER AND STATIONERY.) UNITED STATES ENVELOPE COMPANY, Springfield, Mass. Filed Jan. 26, 1922.

ONE PIECE OUTLOOK TRADE-MARK

The words "Trade-Mark" are hereby expressly disclaimed.
Particular description of goods.—Envelopes.
Claims use since Dec. 15, 1921.

Ser. No. 158,623. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KOKEN COMPANIES, Wilmington, Del., and St. Louis, Mo. Filed Jan. 30, 1922.

SHELL Readyshell

No claim is made to the exclusive use of the word "Shell," either alone or in combination, apart from the mark shown in drawing.
Particular description of goods.—Razor Strops.
Claims use since Dec. 1, 1921.

Ser. No. 158,841. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE R. L. WATKINS COMPANY, Cleveland, Ohio. Filed Feb. 3, 1922.

Glostora

Particular description of goods.—A Preparation for Improving the Appearance and Facilitating the Dressing of the Hair.
Claims use since October, 1921.

Ser. No. 159,099. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES A. MEAD, doing business as Nu-Ma Manufacturing Company, Chicago, Ill. Filed Feb. 9, 1922.

NU-MA



Particular description of goods.—Salve for Coughs, Colds, Bronchitis, Pleurisy, Croup, Pneumonia, La Grippe, Sore Throat, Whooping Cough, Asthma, Hay Fever, Hoarseness, Catarrh, Neuralgia, Cuts, Bruises, Burns, Sprains, Spanish Influenza, Bites and Stings, and Other Ailments of a Like Nature to Those Named Herein.
Claims use since Jan. 1, 1922.

Ser. No. 159,113. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 9, 1922.

SALTEXTILE
SILK-SEAL

No claim is made to the exclusive right to the use of the words "Silk-Seal" apart from the mark shown.
Particular description of goods—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.
Claims use since Jan. 4, 1922.

Ser. No. 159,132. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WEST ELECTRIC HAIR CURLER COMPANY, Philadelphia, Pa. Filed Feb. 9, 1922.

TOURIST

Trade-mark consists of the word "Tourist."
Particular description of goods.—Hair Nets.
Claims use since Nov. 22, 1918.

Ser. No. 159,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIT CANDY CO. INC., Brooklyn, N. Y. Filed Feb. 20, 1922.

VIT

Particular description of goods.—Candies.
Claims use since Feb. 11, 1922.

Ser. No. 159,644. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIP M. BEEWALD, Bradford, Pa. Filed Feb. 21, 1922.

"BERITE"

Particular description of goods.—Chemical Compound for Use in Connection with the Removal of Solid Material from the Oil-Bearing Sand in Oil Wells.
Claims use since Dec. 21, 1921.

Ser. No. 159,652. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORTUNE PRODUCTS COMPANY, Chicago, Ill. Filed Feb. 21, 1922.

Fortune

Particular description of goods.—Cocoa.
Claims use since Feb. 2, 1922.

Ser. No. 159,666. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN L. STRONG, doing business as The Evong Co., Sioux City, Iowa. Filed Feb. 21, 1922.

CONEY ISLAND

Particular description of goods.—Chocolate-Coated Confection Bars.
Claims use since Feb. 15, 1922.

Ser. No. 159,721. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SNOWS CANDY CORPORATION, Chicago, Ill. Filed Feb. 23, 1922.



Particular description of goods.—Candy.
Claims use since Feb. 1, 1922.

Ser. No. 159,722. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH BROTHERS, INC., Poughkeepsie, N. Y. Filed Feb. 23, 1922.

SMITHEREENS

Particular description of goods.—Candy.
Claims use since Jan. 27, 1922.

Ser. No. 159,723. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH BROTHERS, INC., Poughkeepsie, N. Y. Filed Feb. 23, 1922.

SMITHEREENS

Particular description of goods.—Candy.
Claims use since Jan. 27, 1922.

Ser. No. 159,757. (CLASS 39. CLOTHING.) THE JOS. KLEIN COMPANY, New York, N. Y. Filed Feb. 24, 1922.

TOMMY TU-NICKER
SUITS

No claim is made to the word "Suits" apart from the mark shown in the drawing.
Particular description of goods.—Boys' Suits.
Claims use since January, 1922.

Ser. No. 159,766. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROGERS MILK CORPORATION, New York, N. Y. Filed Feb. 24, 1922.

FRESHPAK

Particular description of goods.—Condensed and Evaporated Milk.
Claims use since June 30, 1921.

Ser. No. 159,794. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FAMO NUT CO., Los Angeles, Calif. Filed Feb. 25, 1922.



Particular description of goods.—Chocolate Candies and Chocolate-Covered Nuts.
Claims use since January, 1921.

Ser. No. 159,801. (CLASS 39. CLOTHING.) THE LAMB KNIT GOODS CO., Colon, Mich. Filed Feb. 25, 1922.

CHILL-CHECKER
Lamb
Knit-

No claim is made to the words "Lamb Knit" apart from the mark shown in the drawing.
Particular description of goods.—Men's, Boys', and Ladies' Sweaters and Vests.
Claims use since Feb. 1, 1922.

Ser. No. 159,803. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOOSE-WILES BISCUIT COMPANY Kansas City, Mo. Filed Feb. 25, 1922.

CAKE EATER

Trade-mark "Cake Eater."
Particular description of goods.—Candy, Specifically Chocolate Bars.
Claims use since Dec. 12, 1921.

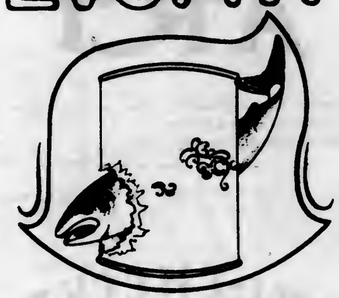
Ser. No. 159,846. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COLUMBIA COFFEE CO. INC., Boston, Mass. Filed Feb. 27, 1922.

PRIDE of MOCHA

Particular description of goods.—Coffee.
Claims use since 1919.

Ser. No. 159,858. (CLASS 46. FOODS AND INGREDIENTS OF FOODS. C. M. EVERITT AND J. P. TODD, INC., Seattle, Wash. Filed Feb. 27, 1922.

Everitt



Particular description of goods.—Canned Fish.
Claims use since July 27, 1921.

Ser. No. 159,865. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. F. GHIGLIONE & SONS, INC., Seattle, Wash. Filed Feb. 27, 1922.

WHEAT MEATS

Particular description of goods.—Alimentary Paste—viz, Macaroni.
Claims use since Nov. 25, 1921.

Ser. No. 159,866. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. F. GHIGLIONE & SONS, INC., Seattle, Wash. Filed Feb. 27, 1922.

WASHINGTON



The picture in drawing is that of George Washington (deceased).
Particular description of goods.—Alimentary Paste—viz, Macaroni, Alphabets, Vermicelli, Spaghetti, and Egg Noodles.
Claims use since Apr. 25, 1913.

Ser. No. 159,967. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IMPERIAL VALLEY VEGETABLE AND MELON GROWERS ASSOCIATION, Brawley, Calif. Filed Feb. 28, 1922.

APEX

Particular description of goods.—Muskmelons.
Claims use since May 15, 1921.

Ser. No. 159,962. (CLASS 39. CLOTHING.) SPRING KNIT HOSIERY CO., Philadelphia, Pa. Filed Feb. 28, 1922.

Miss Prim

Trade-mark consists of the words or title "Miss Prim."
Particular description of goods.—Hosiery for Women, Misses, and Children.
Claims use since about Dec. 15, 1921.

Ser. No. 159,984. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIERSEN PACKING COMPANY, Oakland, Calif. Filed Feb. 28, 1922.

SUTTER GIRL

Particular description of goods.—Canned Fruit.
Claims use since Feb. 7, 1922.

Ser. No. 159,985. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIERSEN PACKING COMPANY, Oakland, Calif. Filed Feb. 28, 1922.

SUTTER BUTTE

Particular description of goods.—Canned Fruits.
Claims use since Feb. 10, 1922.

Ser. No. 159,986. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIERSEN PACKING COMPANY, Oakland, Calif. Filed Feb. 28, 1922.

SUTTER MAID

Particular description of goods.—Canned Fruits.
Claims use since Feb. 10, 1922.

Ser. No. 159,987. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIERSEN PACKING COMPANY, Oakland, Calif. Filed Feb. 28, 1922

SUTTER BOY

Particular description of goods.—Canned Fruits.
Claims use since Feb. 10, 1922.

Ser. No. 160,029. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORA A. SANBORN, Brooklyn, N. Y. Filed Mar. 1, 1922.

Mission Fruit

Nuggets

Particular description of goods.—Fruit Confection.
Claims use since Feb. 3, 1922.

Ser. No. 160,037. (CLASS 39. CLOTHING.) WEST BRANCH KNITTING COMPANY, Milton, Pa. Filed Mar. 1, 1922.

Wesco

Particular description of goods.—Hosiery and Knit Underwear.
Claims use since November, 1921.

Ser. No. 160,041. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN HOMINY COMPANY, Indianapolis, Ind., and Decatur, Ill. Filed Mar. 2, 1922.

PASITOSE

Particular description of goods.—Malt Sugar.
Claims use since Oct. 4, 1920.

Ser. No. 160,063. (CLASS 39. CLOTHING.) ELIAS ISRAEL, doing business as Ecuadorian Panama Hat Company, New York, N. Y. Filed Mar. 2, 1922.

Supernatural

Trade-mark consists of word "Supernatural."
Particular description of goods.—Woven Fiber Hats
Claims use since about June 11, 1921.

Ser. No. 160,087. (CLASS 39. CLOTHING.) LOUIS SHAPIRO, doing business as Louis Shapiro and Co., Mount Vernon, N. Y. Filed Mar. 2, 1922.

JAZZ

Trade-mark consists of the word "Jazz."
Particular description of goods.—Men's Ready-Made Suits and Overcoats.
Claims use since Feb. 20, 1921.

Ser. No. 160,137. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VESS JONES, New York, N. Y. Filed Mar. 3, 1922.

WHISTLE

Particular description of goods.—Ice Cream in Either Brick Form or in Bulk.
Claims use since Feb. 17, 1922.

Ser. No. 160,188. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT PACKING CO. INC., San Jose, Calif. Filed Mar. 4, 1922.

LOS ALTOS

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since July 1, 1921.

Ser. No. 160,191. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa. Filed Mar. 4, 1922.



Particular description of goods.—Saws.
Claims use since Nov. 7, 1921.

Ser. No. 160,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWAIIAN PINEAPPLE COMPANY, LTD., San Francisco, Calif. Filed Mar. 4, 1922.

RECIPE

Particular description of goods.—Canned Pineapple.
Claims use since Jan. 15, 1922.

Ser. No. 160,221. (CLASS 39. CLOTHING.) WEISMAN BROS. & EPSTEIN, New York, N. Y. Filed Mar. 4, 1922.

Satinay

Particular description of goods.—Women's Clothing and Underwear—Namely, Petticoats, Bloomers, Bodices, Gowns, Dressing Gowns, Chemises, and Pyjamas.
Claims use since Oct. 1, 1919.

Ser. No. 160,242. (CLASS 39. CLOTHING.) GOLDEN BELT MANUFACTURING COMPANY, Durham, N. C. Filed Mar. 6, 1922.

HILLCREST

Particular description of goods.—Hosiery.
Claims use since Feb. 4, 1922.

Ser. No. 160,257. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK RUSSELL, doing business as Knobby Products Co., New York, N. Y. Filed Mar. 6, 1922.

Knobby

Particular description of goods.—Pickles.
Claims use since on or about Feb. 25, 1922.

Ser. No. 160,264. (CLASS 46. FOODS AND INGREDIENTS OF GOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 6, 1922.

TOMAHAWK

Particular description of goods.—Candy.
Claims use since Dec. 1, 1921.

Ser. No. 160,298. (CLASS 39. CLOTHING.) PARISIENT KNITTING MILLS, INC., New York, N. Y. Filed Mar. 7, 1922.

Baby's Joy

Particular description of goods.—Children's Coats, Sweaters, Slip-Ons, and Suits.
Claims use since Feb. 23, 1922.

Ser. No. 160,341. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HALPERT MILLS, INC., Brooklyn, N. Y. Filed Mar. 8, 1922.



Particular description of goods.—Olive Oil.
Claims use since January, 1911.

Ser. No. 160,421. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MOLINE PLOW COMPANY, Moline, Ill. Filed Mar. 9, 1922.

BLUE BIRD

Trade-mark consists of the words "Blue Bird."
Particular description of goods.—All Kinds of Plows, Plowshares, and Plow Parts.
Claims use since about 1895.

Ser. No. 160,432. (CLASS 39. CLOTHING.) MAX ROUNICK, Philadelphia, Pa. Filed Mar. 9, 1922.

Temptation

Particular description of goods.—Hosiery.
Claims use since Dec. 1, 1921.

Ser. No. 160,457. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HATTIE V. ADAMS, doing business as Azulikit Mfg. Co., Chicago, Ill. Filed Mar. 10, 1922.

Azulikit

Particular description of goods.—Hair Tonic and Hair Pomade.
Claims use since December, 1920.

Ser. No. 160,603. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HILL-CURTIS CO., Kalamazoo, Mich. Filed Mar. 13, 1922.

THE TRIMOSAW JUNIOR

Particular description of goods.—Sawing and Trimming Machines.
Claims use since July, 1921.

Ser. No. 160,695. (CLASS 39. CLOTHING.) W. B. DAVIS & SON, Fort Payne, Ala. Filed Mar. 15, 1922.

DAVISTA

Trade-mark consists of the word "Davista."
Particular description of goods.—Hosiery.
Claims use since Feb. 14, 1922.

Ser. No. 160,726. (CLASS 39. CLOTHING.) TREMLINE SUIT COMPANY, New York, N. Y. Filed Mar. 15, 1922.

"Princess Mary"

Particular description of goods.—Ladies' and Misses' Capes.
Claims use since Feb. 15, 1922.

Ser. No. 160,765. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LANCASTER IRON WORKS, INC., Lancaster, Pa. Filed Mar. 16, 1922

Auto Brik

Particular description of goods.—Brick Machines.
Claims use since on or about Jan. 1, 1922.

Ser. No. 160,790. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CRYSTAL CERAMIC ICE MACHINE CO., Los Angeles, Calif., and Cincinnati, Ohio. Filed Mar. 17, 1922.

CRYSTAL

Particular description of goods.—Machines for Powdering Ice.
Claims use since Mar. 6, 1922.

Ser. No. 160,809. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HELLER BROTHERS COMPANY, Newark, N. J. Filed Mar. 17, 1922.



The trade-mark is a white tang on the tool to which it is applied.
Particular description of goods.—Files and Rasps.
Claims use since about Jan. 1, 1922.

Ser. No. 160,850. (CLASS 39. CLOTHING.) THE AMERTEX MILLS, INC., Bridgeport, Conn., and New York, N. Y. Filed Mar. 18, 1922.

Amertex

Trade-mark consists of the word "Amertex."
Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.
Claims use since Oct. 31, 1921.

Ser. No. 160,854. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND- PARTS THEREOF.) AMERICAN SAFETY RAZOR CORPORATION, New York and Brooklyn, N. Y. Filed Mar. 18, 1922.

MAHOGANITE

Particular description of goods.—Razor Sets.
Claims use since Oct. 1, 1921.

Ser. No. 160,903. (CLASS 39. CLOTHING.) ROCKWELL & FORRESTER, INC., Waterbury and Bridgeport, Conn. Filed Mar. 18, 1922.

Lady Katherine

Particular description of goods.—Hosiery.
Claims use since Sept. 12, 1921.

Ser. No. 160,961. (CLASS 37. PAPER AND STATIONERY.) THE NATIONAL THRIFT SYSTEM COMPANY, Scranton, Pa. Filed Mar. 20, 1922.

DO YOUR BANKING AS DAD DOES

Particular description of goods.—Depositors' Pass Books of Its School Bank and Savings Club.
Claims use since Jan. 7, 1922.

Ser. No. 161,009. (CLASS 38. PRINTS AND PUBLICATIONS.) MARYLAND ASSURANCE CORPORATION, Baltimore, Md. Filed Mar. 21, 1922.

PROTECTION

Particular description of goods.—A Monthly Magazine or Periodical.
Claims use since Mar. 2, 1918.

Ser. No. 161,057. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MOTOR ECONOMISTS, INC., Los Angeles, Calif. Filed Mar. 22, 1922.

ECONO-MIST

Trade-mark consists of invented word "Econo-Mist."
Particular description of goods.—Carburetors.
Claims use since Feb. 25, 1922.

Ser. No. 161,068. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOULE STEAM FEED WORKS, Meridian, Miss. Filed Mar. 22, 1922.

SPEED-TWIN

Particular description of goods.—Steam Engines.
Claims use since October, 1921.

Ser. No. 161,103. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN GEAR COMPANY, Chicago, Ill. Filed Mar. 23, 1922.

GCO

Particular description of goods.—Gears and Shafts for Automobile Axles and Transmissions.
Claims use since June 15, 1920.

Ser. No. 161,170. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIPPE CHAPELLE, Paris, France, and New York, N. Y. Filed Mar. 24, 1922.

SAN-Y-KIT

The rectangle shown in trade-mark is in red.
Particular description of goods.—Medicinal and Prophylactic Preventive of Venereal Diseases.
Claims use since Dec. 15, 1921.

Ser. No. 161,176. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE CLEVELAND DETROIT CAMERA COMPANY, Cleveland, Ohio. Filed Mar. 24, 1922.

NUEKAM

Particular description of goods.—Cameras, Motion-Picture Taking and Projecting Machines, and Cases and Parts of Such Cameras and Machines.
Claims use since Feb. 28, 1922.

Ser. No. 161,262. (CLASS 39. CLOTHING.) JACOB W. LEWIS, New York, N. Y. Filed Mar. 25, 1922.

"FLAPPER"

Particular description of goods.—Boys' Suits Consisting of Blouses and Trousers Made of Both Washable and Nonwashable Material.
Claims use since Mar. 31, 1920.

Ser. No. 161,296. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS BERNHARDT, New York, N. Y. Filed Mar. 27, 1922.

BERNHARDT'S CORN CURE

The words "Corn Cure" are disclaimed apart from the mark as shown. The portrait in the drawing is that of the applicant.
Particular description of goods.—Corn Cure.
Claims use since Mar. 1, 1922.

Ser. No. 161,410. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BELCHER REMEDY CO., Brooklyn, N. Y. Filed Mar. 29, 1922.

Particular description of goods.—A Salve Used in the Treatment of Piles or Hemorrhoids.
Claims use since May, 1921.

Ser. No. 161,540. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Mar. 31, 1922.

"GEM"

Particular description of goods.—Button Machines, Button Molds, and Button Dies.
Claims use since 1912.

Ser. No. 161,563. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMANUELE J. MESSINEO, New York, N. Y. Filed Mar. 31, 1922.



The portrait appearing on drawing is that of applicant.

Particular description of goods.—Liniment for Rheumatism, Neuralgia, Gout, and Analogous Inflammatory Ailments.

Claims use since Mar. 25, 1922.

Ser. No. 161,737. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MERROW MACHINE COMPANY, Hartford, Conn. Filed Apr. 4, 1922.

43

Particular description of goods.—Loopers for Overseaming and Overedging Sewing Machines.

Claims use since 1905.

Ser. No. 161,738. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MERROW MACHINE COMPANY, Hartford, Conn. Filed Apr. 4, 1922.

44

Particular description of goods.—Loopers for Overseaming and Overedging Sewing Machines.

Claims use since 1908.

Ser. No. 161,739. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MERROW MACHINE COMPANY, Hartford, Conn. Filed Apr. 4, 1922.

48

Particular description of goods.—Loopers for Overseaming and Overedging Sewing Machines.

Claims use since 1905.

Ser. No. 161,740. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MERROW MACHINE COMPANY, Hartford, Conn. Filed Apr. 4, 1922.

53

Particular description of goods.—Loopers for Overseaming and Overedging Sewing Machines.

Claims use since 1908.

Ser. No. 161,741. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MERROW MACHINE COMPANY, Hartford, Conn. Filed Apr. 4, 1922.

56

Particular description of goods.—Loopers for Overseaming and Overedging Sewing Machines.

Claims use since 1915.

Ser. No. 161,742. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MERROW MACHINE COMPANY, Hartford, Conn. Filed Apr. 4, 1922.

57

Particular description of goods.—Loopers for Overseaming and Overedging Sewing Machines.

Claims use since 1913.

Ser. No. 161,743. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MERROW MACHINE COMPANY, Hartford, Conn. Filed Apr. 4, 1922.

58

Particular description of goods.—Loopers for Overseaming and Overedging Sewing Machines.

Claims use since 1915.

Ser. No. 161,744. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MERROW MACHINE COMPANY, Hartford, Conn. Filed Apr. 4, 1922.

62

Particular description of goods.—Loopers for Overseaming and overedging Sewing Machines.

Claims use since 1915.

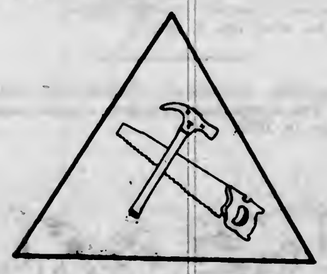
Ser. No. 161,832. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GENERAL STEEL & RUBBER STAMP CO., Boston, Mass. Filed Apr. 6, 1922.

KNO-UR-AUTO

Particular description of goods.—Steel Stamps.

Claims use since Oct. 1, 1921.

Ser. No. 161,930. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MANNING ABRASIVE COMPANY INCORPORATED, Troy and New York, N. Y. Filed Apr. 8, 1922.



Particular description of goods.—Abrasives—Namely, Flint Paper, Flint Cloth, Combination Flint-Cloth Paper, Garnet Paper, Garnet Cloth, Combination Garnet-Cloth Paper, Artificial Abrasive Paper, Artificial Abrasive Cloth, Combination Artificial Abrasive-Cloth Paper, Emery Paper, Emery Cloth, Combination Emery-Cloth Paper.

Claims use since Mar. 1, 1922.

Ser. No. 161,950. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLUMBUS E. WILLIAMS, Concordia, Kans. Filed Apr. 8, 1922.



COLUMBUS E. WILLIAMS.

DYNAMITE INSECTICIDE
and
GERMICIDE

No claim is made for the exclusive use of the words "Insecticide" and "Germicide" apart from the mark shown. The portrait shown is that of applicant, Columbus E. Williams.

Particular description of goods.—Disinfectants and Insecticides.

Claims use since Dec. 13, 1921.

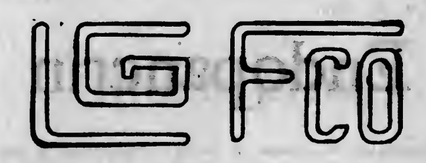
Ser. No. 161,973. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARBON CHASE CO., Long Island City, N. Y. Filed Apr. 10, 1922.



Particular description of goods.—Chemical Carbon Remover.

Claims use since March, 1922.

Ser. No. 161,986. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LOUIS G. FREEMAN CO., Cincinnati, Ohio. Filed Apr. 10, 1922.



Particular description of goods.—Machinery Used in the Manufacture of Shoes.

Claims use since February, 1922.

Ser. No. 162,012. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL COTTON PROTECTING COMPANY, Wilmington, Del., and Chicago, Ill. Filed Apr. 10, 1922.

COTTON PROTECTO

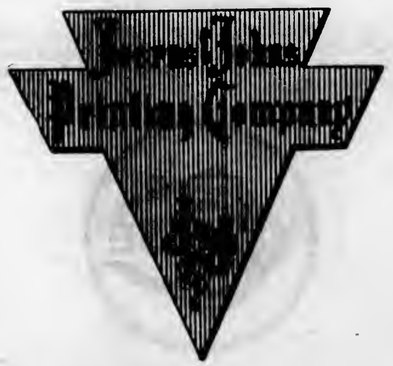
Particular description of goods.—Solutions and Materials for Treating Cotton for Rendering it Proof Against Flash and Spark Fires and Against Country Damage and Materials for Preparing Such Solutions.
Claims use since July 29, 1921.

Ser. No. 162,041. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) OLNEY, AMSDEN & SONS LTD., London, England. Filed Apr. 10, 1922.

FLEXIKNIT

Particular description of goods.—Knitting Pins.
Claims use since December, 1921.

Ser. No. 162,114. (CLASS 37. PAPER AND STATIONERY.) JOERNS & JOHNS PRINTING COMPANY, St. Louis, Mo. Filed Apr. 11, 1922.



The lining on drawing is for red.
Particular description of goods.—Letterheads, Envelopes, and Cards.
Claims use since Dec. 1, 1920.

Ser. No. 162,166. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FAIRCHILD BROS. & FOSTER, New York, N. Y. Filed Apr. 12, 1922.

Endopancrin

Particular description of goods.—Preparation of the Pancreas Gland Designed for Internal Use in the Treatment of Pancreatic Insufficiency in the Form of a Liquid or Powder.
Claims use since Feb. 28, 1921.

Ser. No. 162,185. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEXINGTON CHEMICAL CO., INC., Boston, Mass. Filed Apr. 12, 1922.

BLAUDLETS

Particular description of goods.—Ferrous Carbonate Pill.
Claims use since June 1, 1921.

Ser. No. 162,257. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM B. JOHNSON, Atlanta, Ga. Filed Apr. 13, 1922.

"VITATEIN"

Particular description of goods.—Bread Products.
Claims use since Jan. 2, 1922.

Ser. No. 162,262. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) O'B--SPECIAL TRUST, Beloit, Kans. Filed Apr. 13, 1922.



Particular description of goods.—Medicines of a General Tonic and Disease-Preventing Nature.
Claims use since Jan. 1, 1922.

Ser. No. 162,280. (CLASS 37. PAPER AND STATIONERY.) THE ALBEMARLE PAPER MFG. CO., Richmond, Va. Filed Apr. 14, 1922.



Particular description of goods.—Matrix Paper, Stereotype, and Kraft Wrapping Paper.
Claims use since 1912.

Ser. No. 162,281. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ATKINS-BLAKENEY CHEMICAL COMPANY, Scranton, Pa., and Syracuse, N. Y. Filed Apr. 14, 1922.

"Atblake"

Particular description of goods.—Cold Cream; Antiseptics for Intestinal Injections; Liniment for the Treatment of Rheumatic and Other Pains and Compounds for the Treatment of Dyspepsia, Rheumatism, Sciatica, Hysteria, Nervousness, Dropsical Effusion, Menstrual Irregularities, Aphrodisiac, Maldevelopment, Epilepsy, Coughs, Bronchitis, Constipation, Nerve Sedative, Auto-Toxemia, Sores and Wounds, Headache, Uric Acid, La Grippe, Skin Affections, Nausea, Malnutrition, Tuberculosis, Insomnia, Jaundice, Gall Stones, Gonorrhea, Catarrh, Vaginal Diseases, Hemorrhages; Crystitis, Renal Disorders, Diabetes, Pyelitis, Pyelonephrosis, Anemia, Chlorosis, Goiter, Epistaxis, Hemoptysis, Menorrhagia, Metrorrhagia, Influenza, Blood Disorders, Rickets, Neurasthenia, Incontinence of Children, Aphrodisiac, High and Low Blood Pressure, Thyroid Insufficiency, Valvular Diseases, Endocrine Impotence, Flatulence, Gastritis, Bright's Disease, Febrile Conditions, Prostatitis, Paralysis Agitans, Bowel Complications of Typhoid Fever, Stomach Acidity, Prostatic Hypertrophy, Syphilis, Mammary Insufficiencies.
Claims use since May 15, 1921.

Ser. No. 162,291. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL F. DHINAUT, North Fayette Township, Allegheny County, Pa. Filed Apr. 14, 1922.



Particular description of goods.—Preparation for the Treatment of Sores, Boils, Chapped Hands, and the Like.
Claims use since Apr. 8, 1922.

Ser. No. 162,306. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JORDAN MARSH COMPANY, Boston, Mass. Filed Apr. 14, 1922.

"Avona"

Particular description of goods.—Buttons Made of Glass, Bone, Wood, and the Like and Not of Precious Metal.
Claims use since June 19, 1921.

Ser. No. 162,343. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KOKEN COMPANIES, St. Louis, Mo. Filed Apr. 15, 1922.

FIXATEUR

Particular description of goods.—Preparation for the Hair.
Claims use since Apr. 1, 1922.

Ser. No. 162,344. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LA TULLE HERB CO., Los Angeles, Calif. Filed Apr. 15, 1922.

LA TULLE

Particular description of goods.—Lotion for Darkening Gray Hair, Facial Creams, Toilet Lotions, Obesity Tablets, Depilatory in the Form of Powder, and Liquid Hair Tonics.
Claims use since Dec. 6, 1921.

Ser. No. 162,345. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN LOHMANN, Kingston, Pa. Filed Apr. 15, 1922.

Lohmann's Gallstona

Particular description of goods.—Preparation for the Treatment of Gallstones and Other Diseases Due to the Defective Action of the Kidneys, Liver, and Bowels.
Claims use since Jan. 17, 1922.

Ser. No. 162,372. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS F. BRANN, doing business as Digestalac Co., Lincoln, Kans. Filed Apr. 17, 1922.

DIGESTALAC

Particular description of goods.—Laxative Compound for Aiding Digestion.
Claims use since Feb. 1, 1922.

Ser. No. 162,446. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL V. POHLSON, doing business as The Pohlson Galleries, Pawtucket, R. I. Filed Apr. 17, 1922.

FAIRY CRYSTALS From the SEA

Particular description of goods.—Chemical Preparation for Use on Burning Material to Color the Flames.
Claims use since Apr. 1, 1922.

Ser. No. 162,447. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL V. POHLSON, doing business as The Pohlson Galleries, Pawtucket, R. I. Filed Apr. 17, 1922.

The Logwood Fire

Particular description of goods.—Chemical Preparation for Use on Burning Material to Color the Flames.
Claims use since Apr. 1, 1922.

Ser. No. 162,454. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUTLAND FIRE CLAY CO., Rutland, Vt. Filed Apr. 17, 1922. Under section 9 of the act of Mar. 19, 1920.

RUTLAND

Particular description of goods.—Water Glass Egg Preserver.
Claims use since sometime in 1913.

Ser. No. 162,482. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLINTON D. CRAIG, Whitefield, N. H. Filed Apr. 18, 1922.

AMEX

Particular description of goods.—Medicinal Preparation for External and Internal Inflammation.
Claims use since about June 15, 1921.

Ser. No. 162,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEPHEN A. FITZGERALD, Brooklyn, N. Y. Filed Apr. 18, 1922.

FITZGERALD

Particular description of goods.—Massaging Liniment.
Claims use since Mar. 1, 1921.

Ser. No. 162,499. (CLASS 37. PAPER AND STATIONERY.) A. G. MACKEY, doing business as The Automac Company, Washington, D. C. Filed Apr. 18, 1922.

AUTOMAC

Particular description of goods.—Bill-File Holders, Pad and Memoranda Holders for Desks and for Attachments to Telephones and Automobile Steering Columns and Parts Thereof.
Claims use since Feb. 20, 1922.

Ser. No. 162,505. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PROFESSIONAL PRODUCTS CO., Pasadena, Calif. Filed Apr. 18, 1922.

LOCA-HEAL

Particular description of goods.—Salve for Skin Diseases—viz, Eczema, Ringworm, Blackheads, Pimples, Barber's Itch, Poison Oak, Herpes, and Other Skin Irritation.
Claims use since Mar. 1, 1920.

Ser. No. 162,569. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PROFESSIONAL PRODUCTS CO., Pasadena, Calif. Filed Apr. 19, 1922.

KORRECTO

Particular description of goods.—Internal Remedy for Indigestion.
Claims use since Dec. 1, 1920.

Ser. No. 162,579. (CLASS 37. PAPER AND STATIONERY.) ROSB & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

SUPERB

Particular description of goods.—Tissue Paper Mainly Used for Carbonizing Purposes.
Claims use since Apr. 28, 1914.

Ser. No. 162,590. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY (Incorporated in New Jersey), Bayonne, N. J. Filed Apr. 19, 1922.

Marcol

Particular description of goods.—White Mineral Oil Primarily Used in the Preparation of Cold Creams.
Claims use since Apr. 4, 1922.

Ser. No. 162,642. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OXZYN COMPANY, New York, N. Y. Filed Apr. 20, 1922.

DIXIE-GLOW

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Oct. 22, 1921.

Ser. No. 162,661. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT BUISSON, Paris, France. Filed Apr. 21, 1922.

SÉDOL

Particular description of goods.—Sedative, Antispasmodic, Analgesic, and Hypnotic in Liquid Form.
Claims use since 1902.

Ser. No. 162,663. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN BORELL, New York, N. Y. Filed Apr. 21, 1922.

BORCINE



Particular description of goods.—Hair Tonic and Restorer.
Claims use since Nov. 1, 1921.

Ser. No. 162,665. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. L. BRIDEN & Co., Boston, Mass. Filed Apr. 21, 1922.

NAPHTACYL

Particular description of goods.—Dyes.
Claims use since Mar. 3, 1922.

Ser. No. 162,676. (CLASS 37. PAPER AND STATIONERY.) GILMAN-WINTER PAPER COMPANY, New York, N. Y. Filed Apr. 21, 1922.

SOLMAR PAPER

No claim made to the exclusive use of the word "Paper" apart from the mark as shown.
Particular description of goods.—Paper for All Purposes—viz, Cover Wrapping Papers of All Kinds, for Instance Kraft, Manila, Sulphite, Tissue, Greaseproof (Parchment and Imitation Parchment), Glassine, Waxed, and Crape Papers, and Printing, News, Bond, Writing, Tracing, and Drawing Papers.
Claims use since Jan. 15, 1922.

Ser. No. 162,686. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) P. B. LITTLEHALE, doing business as Moth K-L Company, New York, N. Y. Filed Apr. 21, 1922.

MOTH K-L KILLS MOTHS DESTROYS EGGS

No claim is made to the words "Kills Moths, Destroys Eggs" apart from the mark shown in the drawing.

Particular description of goods.—Liquid Preparation for Protection Against Moths.

Claims use since Jan. 16, 1922.

Ser. No. 162,687. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE LEVY, New York, N. Y. Filed Apr. 21, 1922.

BLONDINETTÉ

Particular description of goods.—Rouge.

Claims use since about Apr. 1, 1922.

Ser. No. 162,692. (CLASS 32. FURNITURE AND UPHOLSTERY.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed Apr. 21, 1922.

LA CHARMANTE

Particular description of goods.—Hand Mirrors and Picture Frames.

Claims use since January, 1922.

Ser. No. 162,709. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ADOLPH SCHWARZBART, New York, N. Y. Filed Apr. 21, 1922.

MONTOZON

Particular description of goods.—Bath Tablets and Odorizers.

Claims use since about the middle of October, 1921.

Ser. No. 162,719. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY NATHANIEL CREGER, doing business as Red Gum Products Co., San Francisco, Calif. Filed Apr. 22, 1922.

Regum

Particular description of goods.—Dental Preparations—viz, Tooth Paste and Mouth Wash.

Claims use since July, 1915.

Ser. No. 162,727. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TONY ESPOSITO, Los Angeles, Calif. Filed Apr. 22, 1922.



Particular description of goods.—Preparation for the Hair to Promote the Growth Thereof and as a Cure for Dandruff.

Claims use since Apr. 1, 1922.

Ser. No. 162,734. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCES M. GRIFFITH, Rochester, N. Y. Filed Apr. 22, 1922.

MECCA

Particular description of goods.—Face Powders and Creams, Rouges, Skin and Toilet Waters, Bath Salts, Hand Lotions, and Tooth Pastes.

Claims use since Dec. 30, 1921.

Ser. No. 162,758. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MONER CHEMICAL CO., Kansas City, Mo. Filed Apr. 22, 1922.

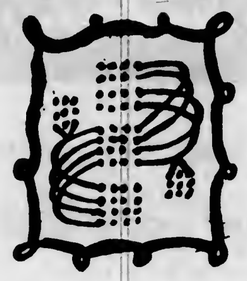
RID-O-PEST

Particular description of goods.—Liquid Insect Killer Used in Destroying Insects in Homes and Public Buildings.

Claims use since Nov. 1, 1921.

Ser. No. 162,770. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROWLETT & OUTLAND MEDICINE CO., Hamlin, Ky. Filed Apr. 22, 1922.

STEWART'S



Particular description of goods.—Preparation for the Treatment of Scrofula.

Claims use since Mar. 17, 1922.

Ser. No. 162,774. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT H. SCHMIDT, Chicago, Ill. Filed Apr. 22, 1922.

REMOVZIT

Particular description of goods.—Cleansing Cream.

Claims use since Oct. 16, 1916.

Ser. No. 162,868. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARNO M. BOMMER, doing business as Avosal Co., Revere, Mass. Filed Apr. 25, 1922.

AVOSAL

Particular description of goods.—Tooth Paste.

Claims use since August, 1921.

Ser. No. 162,874. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. R. FEIL, doing business as The Ivosan Laboratory, Cleveland, Ohio. Filed Apr. 25, 1922.

Wormix

Particular description of goods.—Vermifuge and Stock Conditioner.

Claims use since about the middle of March, 1921.

Ser. No. 162,883. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MINARD COMPANY, Framingham and South Framingham, Mass. Filed Apr. 25, 1922.

ALKOBALM

Particular description of goods.—Liquid Rub for External Use.

Claims use since Feb. 1, 1922.

Ser. No. 162,897. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAUL J. SELKIN, doing business as Pharmocraft M'f'g. Co., New York, N. Y. Filed Apr. 25, 1922.

CHOCLATONE

Trade-mark consists of the word "Choclatone."

Particular description of goods.—Building-Up Tonic and Milk Adjuvant.

Claims use since Apr. 15, 1919.

Ser. No. 162,899. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Apr. 25, 1922.

SOCONY

Particular description of goods.—Soap.

Claims use since Feb. 26, 1908.

Ser. No. 162,907. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STEWART & HOLMES DRUG CO., Seattle, Wash. Filed Apr. 25, 1922.

OPTIMUS

Particular description of goods.—Toilet, Laundry, and Dry-Cleaning Soap, Razor Strops, Liquid Preparations for Cleaning Cloth, and Metal Polish.

Claims use since Jan. 1, 1908.

Ser. No. 162,928. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM H. JOHNSON, Garden City, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 26, 1922.

PETER RABBIT

Particular description of goods.—Soaps, Shaving Soaps in Solid, Paste, and Liquid Form; Shaving Creams Used Before Shaving; Metal Polish in Solid, Paste, and Liquid Form; Glass Polish in Solid, Paste, and Liquid Form; Shoe Polish in Solid, Paste, and Liquid Form and Washing Powder.
Claims use since Apr. 21, 1922.

Ser. No. 162,935. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE KIO COMPANY, New York, N. Y. Filed Apr. 26, 1922.

KIO

Particular description of goods.—Cleaning and Renovating Compounds for Cleaning and Renovating Porcelain, Painted and Varnished Surfaces, Granite, Marble, Limestone, Sandstone, and Brick Such as is Used in Front or Outside of Buildings.
Claims use since Oct. 1, 1921.

Ser. No. 162,989. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. GROSSMANN & CO., INC., New York, N. Y. Filed Apr. 27, 1922.

JAYGRO TISSUE

No claim is made to the word "Tissue" apart from the mark as shown.
Particular description of goods.—Cotton Piece Goods.
Claims use since March 1, 1921.

Ser. No. 163,010. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SHAWMUT WOOLEN MILLS, Stoughton, Mass., and New York, N. Y. Filed Apr. 27, 1922.

SKY DRIFT

Particular description of goods.—Worsted Fabrics or Cloths in the Bolt.
Claims use since Mar. 15, 1922.

Ser. No. 163,124. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) J. W. WEARE COMPANY, Muncie, Ind. Filed Apr. 29, 1922.

BOULEVARD

Particular description of goods.—Metal Polishes.
Claims use since Apr. 3, 1922.

Ser. No. 163,819. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., New York, N. Y. Filed May 13, 1922.

MOON-GLO

Trade-mark "Moon-Glo."
Particular description of goods.—Silk Goods in the Piece—Namely, Broad Silk, Satin, Voile, Crêpe de Chine, Velvet, Chiffon, Marquisette, and Shirtings.
Claims use since Feb. 8, 1916.

Ser. No. 163,871. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN A. GRIFFITH CO., Chicago, Ill. Filed May 15, 1922.

Bedtime Bedtime

The disk background in trade-mark is lined to indicate yellow color.
Particular description of goods.—Textile Suitings for Men.
Claims use since Jan. 2, 1922.

Ser. No. 163,993. (CLASS 31. FILTERS AND REFRIGERATORS.) LANSBURGH & BROTHER, A CORPORATION, Washington, D. C. Filed May 17, 1922.

Snow Boy

No claim is made to the representation of the figure of a Snow Man except as used in conjunction with the other features of the mark.
Particular description of goods.—Refrigerators.
Claims use since Mar. 15, 1922.

Ser. No. 164,054. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO. INC., Baltimore, Md. Filed May 18, 1922.

PRISCILLA—SNOW

Particular description of goods.—Mattresses, Pillows, and Box Springs.
Claims use since Jan. 1, 1918.

Ser. No. 164,191. (CLASS 32. FURNITURE AND UPHOLSTERY.) PEEP-IN COMPANY, Oakland, Calif. Filed May 20, 1922.

PEEP-IN

Particular description of goods.—Display and Storage Cabinets.
Claims use since Apr. 3, 1922.

Ser. No. 164,545. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) JORDAN MARSH COMPANY, Boston, Mass. Filed May 26, 1922.

"AVONA"

Particular description of goods.—Chinaware.
Claims use since May 15, 1921.

Ser. No. 164,594. (CLASS 32. FURNITURE AND UPHOLSTERY.) HOUGH SHADE CORPORATION, Janesville, Wis. Filed May 27, 1922.

RA-TOX

Particular description of goods.—Wood Slat Shades.
Claims use since on or about Jan. 31, 1922.

Ser. No. 164,630. (CLASS 37. PAPER AND STATIONERY.) THE CHATFIELD & WOODS COMPANY, Cincinnati, Ohio. Filed May 29, 1922.

Velvetex

Particular description of goods.—Toilet Paper.
Claims use since Mar. 21, 1922.

Ser. No. 164,805. (CLASS 37. PAPER AND STATIONERY.) GILBERT PAPER CO., Menasha, Wis. Filed June 2, 1922.

Consolidated

Particular description of goods.—Writing Paper.
Claims use since Jan. 24, 1922.

Ser. No. 164,896. (CLASS 37. PAPER AND STATIONERY.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

Hycrest

Particular description of goods.—Writing Tablets and Papeteries.
Claims use since Sept. 1, 1921.

Ser. No. 164,918. (CLASS 37. PAPER AND STATIONERY.) THE JOHNSON-LOCKE MERCANTILE CO., San Francisco, Calif. Filed June 3, 1922.

GOLDEN WEST

Particular description of goods.—Crape Paper Napkins.
Claims use since June, 1908.

Ser. No. 164,941. (CLASS 32. FURNITURE AND UPHOLSTERY.) OTTAWA CUSHION CO., Ottawa, Ill. Filed June 3, 1922.

"RESILLO"

Particular description of goods.—Porch-Swing Cushions and Pads, Chair Cushions and Pads, Piano-Bench Pads, Boat and Canoe Cushions, Church-Pew Cushions, Tumble Mats, Gym Mats, Auto-Seat Cushions, and Back Cushions.
Claims use since Apr. 2, 1920.

Ser. No. 165,031. (CLASS 37. PAPER AND STATIONERY.) HERMAN G. POHLMANN, Chicago, Ill. Filed June 5, 1922.

Little Red Imp



Particular description of goods.—Writing Paper and Envelopes.
Claims use since Feb. 15, 1922.

Ser. No. 165,221. (CLASS 37. PAPER AND STATIONERY.) WESTERN TABLET & STATIONERY COMPANY, St. Joseph, Mo. Filed June 8, 1922.

BIG CHIEF



Particular description of goods.—Writing Tablets.
Claims use since on or about Dec. 1, 1906.

Ser. No. 165,356. (CLASS 37. PAPER AND STATIONERY.) JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed June 12, 1922.

EDUCATOR

Particular description of goods.—Crayons.
Claims use since Feb. 16, 1922.

Ser. No. 165,726. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed June 19, 1922.

LUXASILK

Trade-mark "Luxasilk."
Particular description of goods.—Fabrics in the Piece Made Wholly or in Part of Silk, Cotton, and Wool, Blankets, Automobile Robes, Carriage Robes, Steamer Rugs, Couch Covers, Curtains, and Draperies.
Claims use since June 2, 1922.

Ser. No. 165,851. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE COLUMBIA MILLS, INC., New York, N. Y. Filed June 22, 1922.

HANDIPACK

Particular description of goods.—Cotton Goods in the Piece or Roll.
Claims use since Dec. 23, 1921.

Ser. No. 165,856. (CLASS 37. PAPER AND STATIONERY.) THE DUDLEY PAPER CO., Lansing, Mich. Filed June 22, 1922.

KYBO

Particular description of goods.—Toilet Paper.
Claims use since January, 1915.

Ser. No. 165,934. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 23, 1922.

MARABIA

Particular description of goods.—Wilton Rugs.
Claims use since Sept. 8, 1917.

Ser. No. 165,937. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 23, 1922.

CRYSTA

Particular description of goods.—Cotton Dress Goods in the Piece.
Claims use since July, 1918.

Ser. No. 166,003. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB J. JACOBY COMPANY, INC., New York, N. Y. Filed June 24, 1922.

Raydeen

Particular description of goods.—Silk Piece Goods, Cotton Piece Goods, and Silk and Cotton Mixture Piece Goods.
Claims use since Feb. 15, 1922.

Ser. No. 166,009. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed June 24, 1922.

Hoos Hoo

Particular description of goods.—Silk Piece Goods.
Claims use since April, 1922.

Ser. No. 166,029. (CLASS 37. PAPER AND STATIONERY.) BEACH PUBLISHING CO., Detroit, Mich. Filed June 26, 1922. Under ten-year proviso.

"COMMON SENSE"



Particular description of goods.—Traveler's Expense Book.
Claims use since on or about Jan. 1, 1892.

Ser. No. 166,062. (CLASS 37. PAPER AND STATIONERY.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 26, 1922.

PRINTPACK

Particular description of goods.—Writing Paper and Envelopes.
Claims use since May 1, 1922.

Ser. No. 166,063. (CLASS 37. PAPER AND STATIONERY.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 26, 1922.

GARDENIA LAWN

Particular description of goods.—Writing Paper and Envelopes.
Claims use since 1913.

Ser. No. 166,131. (CLASS 32. FURNITURE AND UPHOLSTERY.) LOUIS I. COHN, doing business as Stays Neat Mattress Company, Philadelphia, Pa. Filed June 27, 1922.

Stays Neat

Particular description of goods.—Mattresses.
Claims use since early part of January, 1922.

Ser. No. 166,300. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GOLDING FABRICS CORPORATION, New York, N. Y. Filed June 30, 1922.

VELLA-VELLA

Trade-mark "Vella-Vella."
Particular description of goods.—Silk and Artificial-Silk Piece Goods.
Claims use since June 1, 1922.

Ser. No. 166,343. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) GEORGE BORGFELDT & CO., New York, N. Y. Filed July 1, 1922.

REX

Particular description of goods.—China Tableware.
Claims use since early part of 1915.

Ser. No. 166,392. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MERIDIAN TEXTILE CORPORATION, New York, N. Y. Filed July 1, 1922.



MERIDIAN MILLS

Particular description of goods.—Silk, Wool, Cotton, Linen Piece Goods and Combinations Thereof.
Claims use since Dec. 13, 1919.

Ser. No. 166,408. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BOUCHON RIOM & CIE., Paris, France. Filed July 1, 1922.

RÉZILLA

Particular description of goods.—Cotton Goods in the Piece.
Claims use since Mar. 1, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 8, 1922.

157,444. LITTLE CIGARS. ISRAEL AARON, New York, N. Y.
Filed June 18, 1921. Serial No. 149,312. PUBLISHED MAY 9, 1922.

157,445. CERTAIN ARTICLES OF CLOTHING. AMBCO, INC., New York, N. Y.
Filed May 2, 1921. Serial No. 147,081. PUBLISHED MAY 9, 1922.

157,446. NONFERROUS METALS AND ALLOYS IN CERTAIN FORMS AND CERTAIN PRODUCTS MADE FROM SUCH METALS AND ALLOYS. THE AMERICAN BRASS COMPANY, Waterbury, Conn.
Filed November 25, 1921. Serial No. 155,852. PUBLISHED MAY 2, 1922.

157,447. SOLIDIFIED LINIMENT. AMERICAN CHEMICAL & DRUG COMPANY, INC., Olyphant, Pa.
Filed December 15, 1921. Serial No. 156,732. PUBLISHED MAY 2, 1922.

157,448. CORSET WAISTS, BRASSIÈRES, BANDEAUX, GIRDLES, HOSE SUPPORTERS. AMERICAN LADY CORSET CO., Detroit, Mich.
Filed June 23, 1921. Serial No. 149,534. PUBLISHED MAY 9, 1922.

157,449. CHILDREN'S AND MISSES' GARTERS. AMERICAN WHOLESALE CORPORATION (Baltimore Bargain House), Baltimore and Cumberland, Md.
Filed November 12, 1921. Serial No. 155,293. PUBLISHED MAY 9, 1922.

157,450. CHILDREN'S AND MISSES' GARTERS. AMERICAN WHOLESALE CORPORATION (Baltimore Bargain House), Baltimore and Cumberland, Md.
Filed November 12, 1921. Serial No. 155,296. PUBLISHED MAY 9, 1922.

157,451. WRITING AND PRINTING PAPERS. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed December 30, 1921. Serial No. 157,292. PUBLISHED MAY 2, 1922.

157,452. MEDICINAL PREPARATION FOR THE TREATMENT OF THE NERVES, STOMACH, LIVER, KIDNEYS, BLOOD, AND CATARRHAL AFFECTIONS. A. ABEND DRUG CO., Chicago, Ill.
Filed June 23, 1921. Serial No. 149,533. PUBLISHED MAY 2, 1922.

157,453. NAILS AND TACKS. THE AUTO-VEHICLE PARTS COMPANY, Cincinnati, Ohio.
Filed November 16, 1921. Serial No. 155,425. PUBLISHED MAY 2, 1922.

157,454. BOLTS. AUTOMATIC BEARING CO., INC., Geneseo, Ill.
Filed September 17, 1921. Serial No. 153,029. PUBLISHED MAY 9, 1922.

157,455. REMEDY FOR FISTULA AND POLL-EVIL IN HORSES AND CATTLE. WILLIAM BALLHORN, Garwin, Iowa.
Filed November 30, 1921. Serial No. 156,071. PUBLISHED MAY 2, 1922.

157,456. A GENERAL TONIC FOR MEDICINAL PURPOSES. ELMER BARNETT, Waco, Tex.
Filed April 11, 1922. Serial No. 162,097. PUBLISHED MAY 9, 1922.

157,457. TALCUM POWDER. BAUER & BLACK, Chicago, Ill.
Filed November 19, 1921. Serial No. 155,592. PUBLISHED MAY 2, 1922.

157,458. OINTMENT REMEDIES FOR DANDRUFF. GABRIEL J. BENAVIDES, Philadelphia, Pa.
Filed December 8, 1921. Serial No. 156,433. PUBLISHED MAY 2, 1922.

157,459. CIGARS AND CIGARETTES. LEVON BERBERIAN, Providence, R. I.
Filed September 8, 1921. Serial No. 152,696. PUBLISHED MAY 9, 1922.

157,460. CAMBRICS IN THE PIECE. BERKELEY COMPANY, Providence, R. I.
Filed December 19, 1921. Serial No. 156,881. PUBLISHED MAY 9, 1922.

157,461. A CERTAIN NAMED MEDICINAL PREPARATION. BLANDING & BLANDING, INC., Providence, R. I.
Filed January 10, 1922. Serial No. 157,709. PUBLISHED MAY 9, 1922.

157,462. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York.
Filed January 24, 1922. Serial No. 158,372. PUBLISHED MARCH 21, 1922.

157,463. TOILET POWDERS AND COMPACTS. A. BOURJOIS & CO. INC., New York, N. Y.
Filed November 23, 1921. Serial No. 155,799. PUBLISHED MAY 9, 1922.

157,464. PERIODICALS PUBLISHED MONTHLY. AMBROSE BOWYER, Chicago, Ill.
Filed September 29, 1921. Serial No. 153,499. PUBLISHED MARCH 14, 1922.

157,465. BRASS RODS. BRIDGEPORT BRASS COMPANY, Bridgeport, Conn.
Filed October 24, 1921. Serial No. 154,473. PUBLISHED MAY 2, 1922.

157,466. CHILDREN'S DRESSES. BROHMAN COMPANY, New York, N. Y.
Filed April 7, 1921. Serial No. 145,816. PUBLISHED APRIL 11, 1922.

157,467. BASEBALLS, BASEBALL BATS, BASEBALL GLOVES, AND FOOTBALLS. BUETTELL BROTHERS COMPANY, Dubuque, Iowa.
Filed February 4, 1922. Serial No. 158,848. PUBLISHED MAY 9, 1922.

157,468. CERTAIN NAMED ARTICLES OF STATIONERY. BUETTELL BROTHERS COMPANY, Dubuque, Iowa.
Filed February 4, 1922. Serial No. 158,849. PUBLISHED MAY 2, 1922.

157,469. LOCK WASHERS. THE BULL DOG LOCK WASHER CO., Baltimore, Md.
Filed October 15, 1920. Serial No. 138,314. PUBLISHED SEPTEMBER 27, 1921.

157,470. CALLOUS REMOVER IN POWDERED FORM. CAL-S-FOR CORP., Brooklyn, N. Y.
Filed November 22, 1921. Serial No. 155,738. PUBLISHED MARCH 21, 1922.

157,471. TONIC. HENRY CANTER, Homestead, Pa.
Filed December 3, 1921. Serial No. 156,213. PUBLISHED APRIL 25, 1922.

157,472. HORSESHOE NAILS. THE CAPEWELL HORSE NAIL COMPANY, Hartford, Conn.
Filed February 18, 1922. Serial No. 159,496. PUBLISHED MAY 9, 1922.

157,473. HORSESHOE NAILS. THE CAPEWELL HORSE NAIL COMPANY, Hartford, Conn.
Filed February 18, 1922. Serial No. 159,497. PUBLISHED MAY 9, 1922.

157,474. PREPARATION FOR THE THROAT AND LUNGS. FRANK CARLSON, Minneapolis, Minn.
Filed December 16, 1921. Serial No. 156,780. PUBLISHED MAY 2, 1922.

157,475. CHILDREN'S VELOCIPEDES. CENTRAL WHEEL COMPANY, Sturgis, Mich.
Filed February 20, 1922. Serial No. 159,563. PUBLISHED MAY 2, 1922.

157,476. SKIIS. SIDNEY M. CHASE, doing business as Chase Manufacturing Company, Minneapolis, Minn.
Filed January 26, 1922. Serial No. 158,468. PUBLISHED MAY 9, 1922.

157,477. SHOES AND BOOTS OF LEATHER, CANVAS, WOOLEN CLOTH, RUBBER, PANAMA STRAW, AND OTHER FABRICS FOR MEN, WOMEN, AND CHILDREN. CHURCHILL & ALDEN CO., Brockton, Mass.
Filed May 19, 1921. Serial No. 147,913. PUBLISHED MAY 9, 1922.

157,478. KNIT JACKETS. CENTURY KNITTING MILLS, New York, N. Y.
Filed November 3, 1921. Serial No. 154,959. PUBLISHED MAY 9, 1922.

157,479. COTTON SHEETINGS. COLUMBUS MANUFACTURING COMPANY, Columbus, Ga.
Filed November 10, 1921. Serial No. 155,256. PUBLISHED MAY 2, 1922.

157,480. SALVES AND OINTMENTS. COMBUSTINWERK EULITZ & CO., Fahrbrucke, Germany.
Filed May 21, 1921. Serial No. 148,018. PUBLISHED MAY 2, 1922.

157,481. LIQUID CHEMICAL PREPARATION FOR USE IN MAKING FACE POWDER ADHERE TO THE SKIN. COMPLEXION PRODUCTS CO., New York, N. Y.
Filed December 23, 1921. Serial No. 157,056. PUBLISHED MAY 2, 1922.

157,482. SHAMPOO COMPOUND. CONCENTRATED PRODUCTS CORPORATION, Carlstadt, N. J., and New York, N. Y.
Filed November 22, 1921. Serial No. 155,736. PUBLISHED MAY 9, 1922.

157,483. CERTAIN NAMED PIECE GOODS. CONTINENTAL MILLS, INC., Philadelphia, Pa.
Filed November 23, 1921. Serial No. 155,804. PUBLISHED MAY 2, 1922.

157,484. BAKING POWDER. OTIS P. CRIM, trading as Dairy-Maid Baking Powder Company, Anderson, Ind.
Filed December 23, 1921. Serial No. 157,057. PUBLISHED MAY 2, 1922.

157,485. CIGARS AND CHEWING TOBACCO. D. C. GLASSER TOBACCO COMPANY, Dubuque, Iowa.
Filed December 16, 1921. Serial No. 156,788. PUBLISHED MAY 9, 1922.

157,486. A CERTAIN NAMED MEDICINAL PREPARATION FOR COWS. DAIRY ASSOCIATION CO., INC., Lyndonville, Vt.
Filed November 28, 1921. Serial No. 155,997. PUBLISHED MAY 9, 1922.

157,487. A WEEKLY PUBLICATION. DEARBORN PUBLISHING COMPANY, Dearborn, Mich.
Filed December 23, 1921. Serial No. 157,062. PUBLISHED APRIL 25, 1922.

157,488. PUBLICATION IN THE NATURE OF INSTRUCTION SHEETS OR CHARTS FOR DRESSMAKERS' USE. THE DESIGNER PUBLISHING COMPANY, New York, N. Y.
Filed November 23, 1921. Serial No. 155,809. PUBLISHED MAY 9, 1922.

157,489. REAMERS AND MILLING CUTTERS. DETROIT TWIST DRILL COMPANY, Detroit, Mich.
Filed March 12, 1921. Serial No. 144,668. PUBLISHED MAY 2, 1922.

157,490. PHOTOGRAPHS. MACDONALD DE WITT, New York, N. Y., assignor to Pacific & Atlantic Photos, Inc., a Corporation of New York.
Filed January 4, 1922. Serial No. 157,478. PUBLISHED APRIL 25, 1922.

157,491. SHOE LACES. DIAMOND BRAIDING MILLS, Chicago Heights, Ill.
Filed November 8, 1921. Serial No. 155,162. PUBLISHED MAY 9, 1922.

157,492. A CERTAIN NAMED MEDICINAL PREPARATION. DUNLAP MEDICINE CO., Columbus, Ohio.
Filed December 13, 1921. Serial No. 156,623. PUBLISHED MAY 9, 1922.

157,493. LEAD PENCILS. EAGLE PENCIL COMPANY, New York, N. Y.
Filed January 30, 1922. Serial No. 158,610. PUBLISHED MARCH 14, 1922.

157,494. HOSE SUPPORTERS AND GARTERS. EAGLE SUSPENDER & BELT CO., INC., Philadelphia, Pa.
Filed April 9, 1921. Serial No. 145,941. PUBLISHED FEBRUARY 7, 1922.

157,495. HUMAN-HAIR NETS. EAST AND WEST TRADING CORPORATION, New York, N. Y.
Filed June 27, 1921. Serial No. 149,692. PUBLISHED SEPTEMBER 6, 1921.

157,496. WINDSHIELD CLEANERS OF THE SQUEEGEE TYPE. CHRIS A. EDWARDSEN, doing business as D. L. Witmer & Bro., Philadelphia, Pa.
Filed November 8, 1921. Serial No. 155,164. PUBLISHED MAY 9, 1922.

157,497. MEDICINAL PREPARATIONS. FENG LABORATORIES, INC., New York, N. Y.
Filed November 26, 1921. Serial No. 155,958. PUBLISHED MAY 2, 1922.

157,498. LADIES' THREE-PIECE SUITS, CONSISTING OF A SKIRT, COAT, AND BREECHES. ARMIN A. FRANKEL, Philadelphia, Pa.
Filed May 27, 1921. Serial No. 148,324. PUBLISHED NOVEMBER 22, 1921.

157,499. CIGARS, CIGARETTES, SMOKING, CHEWING, AND SNUFF TOBACCO, CUT TOBACCO. J. GARBÁTY-ROSENTHAL ZIGARETTENFABRIK J. GARBÁTY, BERLIN-PANKOW, Berlin-Pankow, Germany.
Filed May 19, 1921. Serial No. 147,918. PUBLISHED MAY 9, 1922.

157,500. CIGARS, CIGARETTES, CIGARILLOS, SMOKING, CHEWING, AND SNUFF TOBACCO, CUT AND UNPREPARED TOBACCO. J. GARBÁTY-ROSENTHAL ZIGARETTENFABRIK J. GARBÁTY, BERLIN-PANKOW, Berlin-Pankow, Germany.
Filed May 19, 1921. Serial No. 147,919. PUBLISHED MAY 9, 1922.

157,501. CIGARETTES. J. GARBÁTY-ROSENTHAL ZIGARETTENFABRIK J. GARBÁTY, BERLIN-PANKOW, Berlin-Pankow, Germany.
Filed May 19, 1921. Serial No. 147,920. PUBLISHED MAY 9, 1922.

157,502. CIGARS, CIGARETTES, CIGARILLOS, SMOKING, CHEWING, AND SNUFF TOBACCO, UNPREPARED TOBACCO. J. GARBÁTY-ROSENTHAL ZIGARETTENFABRIK J. GARBÁTY, BERLIN-PANKOW, Berlin-Pankow, Republic of Germany.
Filed May 19, 1921. Serial No. 147,921. PUBLISHED MAY 9, 1922.

157,503. CIGARS, CIGARETTES, CIGARILLOS, SMOKING, CHEWING, AND SNUFF TOBACCO, UNPREPARED TOBACCO. J. GARBÁTY-ROSENTHAL ZIGARETTENFABRIK J. GARBÁTY, BERLIN-PANKOW, Berlin-Pankow, Germany.
Filed May 19, 1921. Serial No. 147,922. PUBLISHED MAY 9, 1922.

157,504. MERCERIZED AND UNMERCERIZED LINGERIE CLOTH. GARNER PRINT WORKS AND BLEACHERY, New York, N. Y.
Filed July 29, 1921. Serial No. 151,081. PUBLISHED NOVEMBER 1, 1921.

157,505. GINGER ALE, A NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUP FOR MAKING THE SAME. WILLIAM J. GIBSON, trading as Crystal Soda Water Works, Uniontown, Pa.
Filed January 3, 1922. Serial No. 157,420. PUBLISHED MAY 9, 1922.

157,506. APRONS. GILLETTE RUBBER CO., Eau Claire, Wis.
Filed November 1, 1921. Serial No. 154,873. PUBLISHED MAY 9, 1922.

157,507. TOY AIR GUNS (FOR SHOOTING AIR BALLS). GOBLINTOY COMPANY, Chicago, Ill.
Filed February 2, 1922. Serial No. 158,771. PUBLISHED MAY 9, 1922.

157,508. HOSE SUPPORTERS, ARM BANDS, AND GARTERS. ISIDOR GOLDBERG, Brooklyn N. Y.
Filed August 19, 1921. Serial No. 151,944. PUBLISHED MAY 9, 1922.

157,509. CERTAIN ARTICLES OF CLOTHING. GORDON & FERGUSON, St. Paul, Minn.
Filed March 22, 1920. Serial No. 130,031. PUBLISHED APRIL 12, 1921.

157,510. TRANSFER LABELS. THE GOSHEN PRINTERY, Goshen, Ind.
Filed December 5, 1921. Serial No. 156,274. PUBLISHED MARCH 7, 1922.

157,511. CIGARS. TOM G. GREANIAS, Decatur, Ill.
Filed January 23, 1922. Serial No. 158,306. PUBLISHED MAY 9, 1922.

157,512. ASH TRAYS. GRIFFIN CHOKER ASH TRAY INC., Philadelphia, Pa.
Filed December 21, 1921. Serial No. 156,992. PUBLISHED MARCH 14, 1922.

157,513. SHOE PLATES FOR BOOTS AND SHOES. FREDERICK HACHMANN, St. Louis, Mo., assignor to Bock Novelty and Manufacturing Company, St. Louis, Mo., a Corporation of Missouri.
Filed August 17, 1921. Serial No. 151,874. PUBLISHED MAY 9, 1922.

157,514. CERTAIN CUTLERY AND TOOLS. HAMBURGER FACTORIES INC., Chicago, Ill.
Filed January 3, 1922. Serial No. 157,424. PUBLISHED MAY 9, 1922.

157,515. BOND PAPER FOR WRITING AND PRINTING PURPOSES. HAMILTON CARD & PAPER HOUSE, INC., New York, N. Y.
Filed May 26, 1921. Serial No. 148,276. PUBLISHED OCTOBER 11, 1921.

157,516. BLOOD PURIFIER AND CLEANSER AND SYSTEM BUILDER. HART-SHAW-MILLER DRUG COMPANY, Adrian, Mich.
Filed January 9, 1922. Serial No. 157,669. PUBLISHED MAY 9, 1922.

157,517. CERTAIN NAMED PIECE GOODS. HEBERLEIN & CO. A. G., Wattwil, Switzerland.
Filed November 25, 1921. Serial No. 155,887. PUBLISHED MAY 9, 1922.

157,518. CERTAIN NONFERROUS METALS. V. HENNING & SONS, Brooklyn, N. Y.
Filed February 3, 1922. Serial No. 158,830. PUBLISHED MAY 9, 1922.

157,519. PERFUMES AND TOILET WATER. JOSEPH HERMAN, New York, N. Y.
Filed November 25, 1921. Serial No. 155,883. PUBLISHED MAY 2, 1922.

157,520. TRUNDLE BEDS AND INFANTS' COOPS. H. E. HOLBROOK COMPANY, Boston, Mass.
Filed November 9, 1921. Serial No. 155,228. PUBLISHED MARCH 7, 1922.

157,521. FUR COATS, WRAPS, CAPES, AND NECK PIECES. HUDSON SEAL CO. INC., New York, N. Y.
Filed November 10, 1921. Serial No. 155,260. PUBLISHED MAY 9, 1922.

157,522. FLAVORING SIRUPS FOR NONALCOHOLIC MALTLESS BEVERAGES. HURTY-PECK & CO., Indianapolis, Ind.
Filed January 27, 1922. Serial No. 158,525. PUBLISHED MAY 9, 1922.

157,523. HAIR INVIGORATOR AND TONIC. ADDA E. HYATT, doing business as Hyatt and Company, Anderson, Ind.
Filed January 24, 1922. Serial No. 158,392. PUBLISHED MAY 9, 1922.

157,524. A CERTAIN NAMED MEDICINAL PREPARATION. HYDRARGINOL COMPANY, Kansas City, Mo.
Filed July 18, 1921. Serial No. 150,533. PUBLISHED MAY 9, 1922.

157,525. POWDERED DEPILATORIES, SHAMPOOS, FACE CREAMS, LIQUID COLORING FOR HAIR, AND LOTIONS FOR SKIN. IMPERIAL CHEMICAL MFG. CO., New York, N. Y.
Filed July 23, 1921. Serial No. 150,862. PUBLISHED DECEMBER 27, 1921.

157,526. SALT. INTERNATIONAL SALT CO. OF NEW YORK, New York, N. Y.
Filed December 14, 1921. Serial No. 156,692. PUBLISHED MAY 9, 1922.

157,527. SHADE ROLLERS. INTERSTATE SHADE CLOTH CO., Hoboken, N. J.
Filed March 29, 1922. Serial No. 161,436. PUBLISHED MAY 9, 1922.

157,528. CERTAIN NAMED TOILET PREPARATIONS. DANIEL JAQUET, trading as Parfums Fontanis, Paris, France.
Filed September 9, 1921. Serial No. 152,755. PUBLISHED MAY 2, 1922.

157,529. VALVE HANDLES OR WHEELS. JENKINS MANUFACTURING COMPANY, Bloomfield, N. J.
Filed January 3, 1922. Serial No. 157,429. PUBLISHED MAY 9, 1922.

157,530. MONTHLY MAGAZINE DEVOTED TO JEWELRY AND KINDRED ARTICLES OF PERSONAL ADORNMENT. THE KEYSTONE PUBLISHING COMPANY, Philadelphia, Pa.
Filed September 26, 1921. Serial No. 153,359. PUBLISHED MARCH 7, 1922.

157,531. HAIR NETS. GUSTAV KLEMPERER, trading as Cosmos Trading Company, New York, N. Y.
Filed November 17, 1921. Serial No. 155,502. PUBLISHED MAY 2, 1922.

157,532. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. THOMAS W. LARKIN & CO., doing business as Mystery Drink Company, Streator, Ill.
Filed February 23, 1921. Serial No. 143,930. PUBLISHED MAY 9, 1922.

157,533. LEATHER BOOTS AND SHOES. LEONARD & BARROWS, Middleboro and Boston, Mass.
Filed January 27, 1921. Serial No. 142,848. PUBLISHED MAY 17, 1921.

157,534. A MONTHLY MAGAZINE. LINCOLN FISCAL AGENCY, St. Louis, Mo.
Filed December 31, 1921. Serial No. 157,372. PUBLISHED APRIL 25, 1922.

157,535. A MONTHLY MAGAZINE. LINCOLN FISCAL AGENCY, St. Louis, Mo.
Filed December 31, 1921. Serial No. 157,373. PUBLISHED APRIL 25, 1922.

157,536. AROMATIC INCENSE. LOUIS LUCAS COMPANY, INC., Jamestown, N. Y.
Filed November 23, 1921. Serial No. 155,818. PUBLISHED MAY 2, 1922.

157,537. SERIAL HOUSE-ORGAN PUBLICATION AND ALSO YEARLY DIARY. LUCEY MANUFACTURING CORPORATION, New York, N. Y., and Pittsburgh, Pa.
Filed November 28, 1921. Serial No. 156,006. PUBLISHED MARCH 7, 1922.

157,538. A CERTAIN NAMED MEDICINAL PREPARATION. FRANK X. MANTSION, Philadelphia, Pa.
Filed January 10, 1922. Serial No. 157,722. PUBLISHED MAY 9, 1922.

157,539. MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,302. PUBLISHED MAY 3, 1921.

157,540. MAGAZINES PUBLISHED PERIODICALLY, PRINTED BOOKS, BOOKLETS, PAMPHLETS, AND CATALOGUES. JOHN MARTIN'S HOUSE, INC., New York, N. Y.
Filed June 25, 1921. Serial No. 149,647. PUBLISHED APRIL 25, 1922.

157,541. CIGARS. JOHN H. MASTERMAN, Baltimore, Md.
Filed September 29, 1921. Serial No. 153,516. PUBLISHED MAY 9, 1922.

157,542. KITCHEN COOKING UTENSILS COMPRISING KETTLES, POTS, PANS, SKILLETS, GRIDDLES, AND DISHES, ALL MADE OF ALUMINUM. METAL AND ALLOY SPECIALTIES COMPANY, INC., Buffalo, N. Y., assignor, by mesne assignments, to Heirloom Aluminum Corporation, Buffalo, N. Y., a Corporation of New York.
Filed January 14, 1921. Serial No. 142,264. PUBLISHED AUGUST 23, 1921.

157,543. NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS THEREFOR. JOS. MIDDLEBY, JR. INC., Boston, Mass.
Filed December 15, 1921. Serial No. 156,748. PUBLISHED MAY 9, 1922.

157,544. BED SPRINGS. MITCHELL & MITCHELL MANUFACTURING COMPANY, Fort Smith, Ark.
Filed November 1, 1921. Serial No. 154,880. PUBLISHED MARCH 14, 1922.

157,545. TOY MOTOR TRUCKS, TOY STEAM SHOVELS, AND TOY DERRICKS. MOLINE PRESSED STEEL CO., East Moline, Ill.
Filed December 1, 1921. Serial No. 156,167. PUBLISHED MAY 9, 1922.

157,546. COTTON PIECE GOODS, SILK PIECE GOODS, AND SILK AND COTTON PIECE GOODS, EITHER PLAIN OR FANCY WOVEN. MOUNT HOPE FINISHING COMPANY, Dighton, Mass.
Filed November 22, 1921. Serial No. 155,765. PUBLISHED MAY 2, 1922.

157,547. BIMONTHLY PUBLICATION. CONDÉ NAST, New York, N. Y.
Filed December 6, 1921. Serial No. 156,334. PUBLISHED APRIL 25, 1922.

157,548. PARLOR BASEBALL GAME. THE NATIONAL GAME COMPANY, Toledo, Ohio.
Filed December 5, 1921. Serial No. 156,293. PUBLISHED MAY 9, 1922.

157,549. RELIEF VALVES. NEPTUNE METER COMPANY, New York, N. Y.
Filed March 16, 1922. Serial No. 160,771. PUBLISHED MAY 9, 1922.

157,550. CURTAIN FIXTURES, PARTICULARLY CURTAIN RODS. THE NEWELL MFG. CO. INC., Ogdensburg, N. Y.
Filed March 16, 1922. Serial No. 160,773. PUBLISHED MAY 9, 1922.

157,551. CONCENTRATED MATERIAL BREWED FROM MALT AND HOPS SUITABLE FOR THE MAKING OF A MALT BEVERAGE. NEW ENGLAND BREWING COMPANY, doing business as Haffenreffer & Co., Jersey City, N. J., and Boston, Mass.
Filed October 26, 1921. Serial No. 154,614. PUBLISHED MAY 9, 1922.

157,552. GRASS CUTTERS AND SCYTHES. NORTH WAYNE TOOL COMPANY, Detroit, Mich., and Hallowell, Me.
Filed October 6, 1921. Serial No. 153,823. PUBLISHED MARCH 21, 1922.

157,553. OVERALLS. O'BRYAN BROTHERS, INC., Nashville, Tenn.
Filed May 17, 1921. Serial No. 147,843. PUBLISHED APRIL 11, 1922.

157,554. AUTOMOBILE TIRE CHAINS. OFF'N'ON CHAIN CORPORATION, Newark, N. J.
Filed February 13, 1922. Serial No. 159,282. PUBLISHED MAY 9, 1922.

157,555. SWEATERS, BATHING SUITS, SPORT, WORK, AND NEGLIGEE SHIRTS, PANTS, TRUNKS, TIGHTS, HOSIERY, SPORTING COATS, AND GOLF COATS. O'SHEA KNITTING MILLS, Chicago, Ill.
Filed July 18, 1921. Serial No. 150,557. PUBLISHED MARCH 14, 1922.

157,556. CIGARETTES. GEORGE PAPPANICOLAOU, Washington, D. C., and New York, N. Y.
Filed January 10, 1922. Serial No. 157,731. PUBLISHED MAY 9, 1922.

157,557. CARD GAMES. PARKER BROTHERS, Salem, Mass.
Filed December 28, 1921. Serial No. 157,232. PUBLISHED MAY 9, 1922.

157,558. NONALCOHOLIC. MALTLESS BEVERAGE SOLD AS A SOFT DRINK. PARKWAY BOTTLING CO. INC., Philadelphia, Pa.
Filed January 18, 1922. Serial No. 158,092. PUBLISHED MAY 9, 1922.

157,559. COTTON PIECE GOODS. PASSAIC PRINT WORKS, Passaic, N. J.
Filed December 7, 1921. Serial No. 156,409. PUBLISHED MAY 9, 1922.

157,560. A SERIES OF PAMPHLETS, BOOKLETS, OR LEAFLETS PUBLISHED FROM TIME TO TIME. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa.
Filed November 19, 1921. Serial No. 155,633. PUBLISHED MAY 9, 1922.

157,561. UNDERWEAR FOR MEN, WOMEN, AND CHILDREN, AND KNIT CORSET COVERS FOR WOMEN. THE PITTSBURGH DRY GOODS COMPANY, Pittsburgh, Pa.
Filed January 11, 1921. Serial No. 142,098. PUBLISHED AUGUST 23, 1921.

157,562. WOMEN'S HOSIERY OF SILK OR COTTON OR COMBINATIONS OF THE SAME. PROPPER SILK HOSIERY MILLS INC., New York, N. Y.
Filed June 18, 1921. Serial No. 149,349. PUBLISHED MAY 2, 1922.

157,563. WRITING, PRINTING, AND TYPEWRITING PAPERS, WRITING TABLETS, CORRESPONDENCE ENVELOPES, WEDDING INVITATION AND ANNOUNCEMENT CARDS AND PAPETERIES. POWERS PAPER COMPANY, Springfield, Mass.
Filed January 14, 1922. Serial No. 157,952. PUBLISHED MAY 2, 1922.

157,564. WRITING, PRINTING, AND TYPEWRITING PAPER, WRITING TABLETS, AND PAPETERIES, CORRESPONDENCE ENVELOPES, WEDDING INVITATION AND ANNOUNCEMENT CARDS. POWERS PAPER COMPANY, Springfield, Mass.
Filed January 14, 1922. Serial No. 157,953. PUBLISHED MAY 9, 1922.

157,565. WRITING, PRINTING, AND TYPEWRITING PAPER, CORRESPONDENCE ENVELOPES, WRITING TABLETS, WEDDING INVITATION AND ANNOUNCEMENT CARDS, AND PAPETERIES. POWERS PAPER COMPANY, Springfield, Mass.
Filed January 14, 1922. Serial No. 157,955. PUBLISHED MAY 2, 1922.

157,566. MAGAZINES MONTHLY ISSUED. PRACTICAL ELECTRICS COMPANY INCORPORATED, New York, N. Y.
Filed November 25, 1921. Serial No. 155,929. PUBLISHED APRIL 25, 1922.

157,567. A CERTAIN NAMED MEDICINAL PREPARATION. THE PURABRAND PRODUCTS CO., Pleasant Hill, Ohio.
Filed December 8, 1921. Serial No. 156,462. PUBLISHED MAY 2, 1922.

157,568. MEN'S CLOTHING FOR OUTER WEAR—NAMELY, MEN'S SUITS, OVERCOATS, RAINCOATS, TROUSERS, COATS, AND VESTS. THE R. B. CLOTHING COMPANY, INC., Cincinnati, Ohio.
Filed November 4, 1921. Serial No. 155,032. PUBLISHED MAY 9, 1922.

157,569. KNITTED CAPS. RELIABLE KNITTING WORKS, Milwaukee, Wis.
Filed July 2, 1921. Serial No. 149,978. PUBLISHED FEBRUARY 7, 1922.

157,570. BROOMS. RICH & FRANCE, Chicago, Ill.
Filed March 26, 1921. Serial No. 145,287. PUBLISHED MAY 9, 1922.

157,571. NONINTOXICATING MALTLESS BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT OF ALCOHOL, BY VOLUME. GEORGE RINGLER & CO., New York, N. Y.
Filed February 26, 1920. Serial No. 128,943. PUBLISHED MAY 9, 1922.

157,572. CHAMBRAY AND CHEVIOTS IN THE PIECE. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va.
Filed December 6, 1921. Serial No. 156,342. PUBLISHED MAY 2, 1922.

157,573. TRADE MAGAZINE. RODGER PUBLISHING COMPANY, Chicago, Ill.
Filed December 10, 1921. Serial No. 156,545. PUBLISHED APRIL 25, 1922.

157,574. LOTION FOR DRESSING THE HAIR. CHARLES F. ROOT, New York, N. Y.
Filed November 23, 1921. Serial No. 155,832. PUBLISHED MAY 2, 1922.

157,575. MEN'S COATS, VESTS, AND PANTS. ROSENBERG BROS. & CO., Rochester, N. Y.
Filed November 12, 1921. Serial No. 155,322. PUBLISHED MAY 9, 1922.

157,576. MEDICINAL PREPARATION FOR THE TREATMENT OF THE GUMS AND TEETH. ADOLPH ABE ROSENFIELD, trading as N. M. T. A. Mfg. Co., New York, N. Y.
Filed December 16, 1921. Serial No. 156,807. PUBLISHED MAY 2, 1922.

157,577. MEN'S SUITS. HARRIS W. ROTHSTEIN, trading as H. W. Rothstein & Co., Baltimore, Md.
Filed September 10, 1921. Serial No. 152,807. PUBLISHED MAY 2, 1922.

157,578. LADIES' HATS. MAURICE SALTZMAN, New York, N. Y.
Filed November 2, 1921. Serial No. 154,934. PUBLISHED MAY 9, 1922.

157,579. [WITHDRAWN.]

157,580. MONTHLY TRADE JOURNAL. THE SERVICE PUBLISHING CO., South Bend, Ind.
Filed December 29, 1921. Serial No. 157,285. PUBLISHED APRIL 25, 1922.

157,581. BREAD. WILLIAM BARTHOLOMEW SIEGRIST, Jellico, Tenn.
Filed August 16, 1921. Serial No. 151,854. PUBLISHED FEBRUARY 14, 1922.

157,582. HAIR NETS. SITROUX IMPORTING COMPANY, INC., New York, N. Y.
Filed November 22, 1921. Serial No. 155,782. PUBLISHED FEBRUARY 14, 1922.

157,583. HAIR NETS. SITROUX IMPORTING COMPANY, INC., New York, N. Y.
Filed November 22, 1921. Serial No. 155,786. PUBLISHED MAY 2, 1922.

157,584. MEN'S AND BOYS' HATS AND CAPS. HENRY SONNEBORN & CO., INC., Baltimore, Md.
Filed September 8, 1921. Serial No. 152,724. PUBLISHED MAY 2, 1922.

157,585. [WITHDRAWN.]

157,586. FAUCETS, COCKS, AND BIBS. E. STEBBINS MANUFACTURING COMPANY, Springfield, Mass.
Filed February 16, 1921. Serial No. 143,670. PUBLISHED SEPTEMBER 6, 1921.

157,587. BABY PANTS. A. STEIN & COMPANY, Chicago, Ill.
Filed June 3, 1921. Serial No. 148,622. PUBLISHED MAY 2, 1922.

157,588. WATCHES. STEIN & ELLROGEN COMPANY, Chicago, Ill.
Filed August 22, 1921. Serial No. 152,045. PUBLISHED JANUARY 31, 1922.

157,589. PAPER FOR WRITING, TYPEWRITING, PRINTING, AND ENGRAVING PURPOSES; PHOTOMOUNT AND COVER PAPERS, CARDBOARD, BRISTOL BOARD, AND PAPER FOR PICTURE AND PHOTOGRAPH MATS. STRATHMORE PAPER COMPANY, West Springfield, Mass.
Filed February 14, 1922. Serial No. 159,328. PUBLISHED MAY 2, 1922.

157,590. MEN'S DRESS SHIRTS AND UNDERWEAR MADE OF WOVEN-FABRIC MATERIALS. GEORGE E. SWEETSER COMPANY, New York, N. Y.
Filed September 10, 1919. Serial No. 122,553. PUBLISHED NOVEMBER 23, 1920.

157,591. HORSESHOEING APPARATUS FOR RAISING UP AND HOLDING A HORSE'S LEG IN ANY REQUIRED POSITION AND HOOF CLEANING AND FORMING KNIVES. ALEX SZABO, Perth Amboy, N. J.
Filed November 10, 1921. Serial No. 155,279. PUBLISHED MAY 2, 1922.

157,592. LADIES' TRIMMED AND UNTRIMMED HATS AND HAT FRAMES. ISIDORE TANNENBAUM, New York, N. Y.
Filed May 21, 1921. Serial No. 148,025. PUBLISHED MAY 9, 1922.

157,593. ARITHMETICAL CARD GAME. THE TEDDY MULTIPLICATION GAME COMPANY, Cleveland, Ohio.
Filed January 12, 1922. Serial No. 157,859. PUBLISHED MAY 9, 1922.

157,594. LYE. P. C. TOMSON & CO., Philadelphia, Pa.
Filed December 10, 1921. Serial No. 156,553. PUBLISHED MAY 2, 1922.

157,595. CHLORINATED LIME. P. C. TOMSON & CO., Philadelphia, Pa.
Filed December 10, 1921. Serial No. 156,555. PUBLISHED MAY 2, 1922.

157,596. CERTAIN PUMPS, ENGINES, FARM IMPLEMENTS, WOOD AND METAL WORKING MACHINERY, AND ACCESSORIES FOR MACHINERY. TRANTER MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed December 18, 1920. Serial No. 141,283. PUBLISHED JUNE 14, 1921.

157,597. ARTIFICIAL BAIT. ORLEY CLAYTON TUTTLE, Old Forge, N. Y.
Filed February 6, 1922. Serial No. 158,954. PUBLISHED MAY 9, 1922.

157,598. SHOE PLATES. THE UNIVERSAL SHOE PLATE COMPANY, Cleveland, Ohio.
Filed November 28, 1921. Serial No. 156,034. PUBLISHED MAY 9, 1922.

157,599. SERIES OR SUCCESSION OF DRAWINGS OR PICTURES. L. FRANKLIN VAN ZELM, Pelham, N. Y. Filed November 19, 1921. Serial No. 155,647. PUBLISHED MARCH 7, 1922.

157,600. GINGER ALE AND GINGER-ALE EXTRACT. JAMES VERNOR COMPANY, Detroit, Mich. Filed January 16, 1922. Serial No. 158,023. PUBLISHED MAY 9, 1922.

157,601. CERTAIN NAMED BRUSHES AND BROOMS, POWDER PUFFS, AND WIND-SHIELD CLEANERS. V. VIVAUDOU, INC., New York, N. Y. Filed February 6, 1922. Serial No. 158,959. PUBLISHED MAY 9, 1922.

157,602. SALVE FOR EXTERNAL APPLICATION FOR BOILS, CUTS, WOUNDS, ETC. EMIL V. VLACH, New York, N. Y. Filed November 19, 1921. Serial No. 155,648. PUBLISHED MAY 2, 1922.

157,603. CHAMPAGNE WINES. WALRAUM, GOULDEN & Co., Reims, France. Filed October 19, 1921. Serial No. 154,342. PUBLISHED MAY 9, 1922.

157,604. CERTAIN ARTICLES OF CLOTHING. WENTWORTH CLOTHING COMPANY, Spokane, Wash. Filed August 24, 1921. Serial No. 152,153. PUBLISHED MAY 9, 1922.

157,605. MEN'S, WOMEN'S, MISSES', YOUTHS', CHILDREN'S, INFANTS' SHOES, BOOTS, SLIPPERS, PUMPS, AND OXFORDS. FRANK WERNER, San Francisco, Calif. Filed February 25, 1921. Serial No. 144,058. PUBLISHED OCTOBER 18, 1921.

157,606. A TOILET PREPARATION. SIDNEY F. WESTHEIMER, doing business as Blush-On Company of America, Baltimore, Md. Filed December 21, 1921. Serial No. 157,011. PUBLISHED APRIL 25, 1922.

157,607. WRITING PAPER AND ENVELOPES. CHARLES E. WEYAND & Co. INC., New York, N. Y. Filed October 18, 1921. Serial No. 154,291. PUBLISHED MAY 2, 1922.

157,608. TOPS. THE WHIP-O-TOP COMPANY, New Britain, Conn. Filed February 1, 1922. Serial No. 158,739. PUBLISHED MAY 9, 1922.

157,609. CIGARS, CIGARETTES, CHEROOTS, SNUFF, AND SMOKING TOBACCO. THE WIGWAM RETAIL STORES COMPANY, Columbia, S. C. Filed November 2, 1921. Serial No. 154,948. PUBLISHED MAY 9, 1922.

157,610. PREPARATION FOR TREATMENT OF BOTS, COLIC, DISTEMPER, AND FEVER FOR HORSES AND MULES. DOUGLAS S. WILSON, Midville, Ga. Filed December 9, 1921. Serial No. 156,509. PUBLISHED MAY 9, 1922.

157,611. TRACING CLOTH. THE WINTERBOTTOM BOOK CLOTH COMPANY LIMITED, Manchester, England. Filed January 23, 1922. Serial No. 158,351. PUBLISHED MAY 2, 1922.

157,612. FIRE HYDRANTS. WALTER WOOD, trading as R. D. Wood & Co., Philadelphia, Pa. Filed December 15, 1921. Serial No. 156,769. PUBLISHED MAY 9, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

AUGUST 8, 1922.

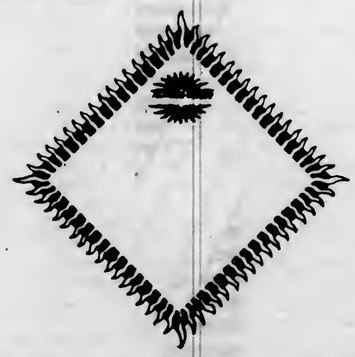
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

157,613. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ARCADE MANUFACTURING COMPANY, Freeport, Ill. Filed Nov. 14, 1921. Serial No. 155,333.

CRYSTAL

Particular description of goods.—Coffee Mills.
Claims use since December, 1900.

157,614. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE B. & K. SPECIALTY COMPANY, Paterson, N. J. Filed Mar. 21, 1921. Serial No. 145,003.



Particular description of goods.—Receptacles Containing a Fire-Extinguishing Liquid and Mounted on a Bracket.
Claims use since Jan. 1, 1921.

157,615. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CINCINNATI-BICKFORD TOOL COMPANY, Oakley, Cincinnati, Ohio. Filed Apr. 7, 1921. Serial No. 145,819.

CINCINNATI
BICKFORD

Particular description of goods.—Metal-Drilling Machinery.
Claims use since Jan. 1, 1920.

157,616. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CLAYTON MFG. CO., Bristol, Conn. Filed May 24, 1921. Serial No. 148,124.

FERROMETAL

Particular description of goods.—Scissors and Shears.
Claims use since about Apr. 13, 1921.

157,617. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLEVELAND PNEUMATIC TOOL COMPANY, Cleveland, Ohio. Filed Feb. 15, 1922. Serial No. 159,349.

POCKET-IN-HEAD

Particular description of goods.—Certain Pneumatic Tools Consisting of Riveting Hammers.
Claims use since about May, 1916.

157,618. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH FLEISCHER, doing business as the Fleischer & Co., New York, N. Y. Filed Apr. 17, 1922. Serial No. 162,395.

FITWELL

Particular description of goods.—Hair Nets.
Claims use since September, 1917.

157,619. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL SILVER COMPANY, Meriden, Conn. Filed Dec. 5, 1921. Serial No. 156,279.

LASHAR

Particular description of goods.—Certain Unplated Flat Tableware Made from Composition Base Metal.
Claims use since 1907.

157,620. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed Apr. 29, 1922. Serial No. 163,094.

NORWAY

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since September, 1900.

157,621. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed Apr. 29, 1922. Serial No. 163,095.

SUREFOLD

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since July, 1915.

157,622. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed Apr. 29, 1922. Serial No. 163,096.

ROANOKE

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since September, 1909.

157,623. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LINK-BELT CO., Chicago, Ill. Filed July 11, 1921. Serial No. 150,240.

>TWYNCONE<

Particular description of goods.—Clutches.
Claims use since July, 1919.

157,624. (CLASS 37. PAPER AND STATIONERY.) BENJAMIN W. MACH, Chicago, Ill. Filed May 14, 1921. Serial No. 147,730.

NeverStuck

Particular description of goods.—Penholders.
Claims use since May 1, 1921.

157,625. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PERFECTION TIMING GEAR COMPANY (NOT INC.), Chicago, Ill. Filed July 11, 1921. Serial No. 150,250.

PERFECTION

Particular description of goods.—Timing Gears for Automobiles.
Claims use since October, 1920.

157,626. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) M. W. ROBINSON CO., New York, N. Y. Filed Feb. 28, 1922. Serial No. 159,980.

CAREW'S

Particular description of goods.—Mechanics' Tools—viz. Nippers.
Claims use for about 20 years.

157,627. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SEATTLE-ASTORIA IRON WORKS, Seattle, Wash. Filed Aug. 10, 1921. Serial No. 151,641.

TROYER-FOX NON-SPILL SANITARY DOUBLE SEAMER

Particular description of goods.—Can Heading and Sealing Machines.
Claims use since about Jan. 6, 1920.

157,628. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STETTAUER, HARRIS & RAPHAEL, New York, N. Y. Filed Feb. 9, 1922. Ser. No. 159,108.



Particular description of goods.—Cotton Fabrics in the Piece.
Claims use since Aug. 15, 1918.

157,629. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALLACE & TIERNAN CO. INC., Newark, N. Y. Filed June 30, 1921. Serial No. 149,879.

CHLORINATOR

Particular description of goods.—Chlorine Control Apparatus.
Claims use since February, 1913.

LABELS

REGISTERED AUGUST 8, 1922.

24,820.—*Title:* "DEL MONTE." (For Flour.) ALBERS BROS. MILLING CO., Seattle, Wash. Filed June 26, 1922.

24,821.—*Title:* "ALBERS PEACOCK BRAND." (For Buckwheat Flour.) ALBERS BROS. MILLING CO., Seattle, Wash. Filed June 26, 1922.

24,822.—*Title:* "ALBERS." (For Flapjack Flour.) ALBERS BROS. MILLING CO., Seattle Wash. Filed June 26, 1922.

24,823.—*Title:* "PEACOCK." (For Rolled Oats.) ALBERS BROS. MILLING CO., Seattle, Wash. Filed June 26, 1922.

24,824.—*Title:* "ALBERS CARNATION." (For Wheat Flakes.) ALBERS BROS. MILLING CO., Seattle, Wash. Filed June 26, 1922.

24,825.—*Title:* "AQUA-TON." (For Containers for Mineral Water.) LOUIS J. BENNETT, Kansas City, Mo. Filed July 1, 1922.

24,826.—*Title:* "STATE BRAND BUTTER." (For Cartons, Tubs, and Other Packages of Butter.) CALAMIA & O'REARDON, INC., New Orleans, La. Filed July 5, 1922.

24,827.—*Title:* "I°S°I°S." (For a New Preparation for Washing and Healing Bleeding Gums and as a Mouth Wash.) CAROLINE FOOTE MARSH, Portland, Me. Filed April 20, 1922.

24,828.—*Title:* "WHITE SWAN." (For Mattresses.) CHATTANOOGA MATTRESS COMPANY, Chattanooga, Tenn. Filed June 26, 1922.

24,829.—*Title:* "LADY ESTHER WHITENER CREAM." (For Face Cream.) SYMA COHEN, Chicago, Ill. Filed June 28, 1922.

24,830.—*Title:* "WALNETTOS." (For Complete Candy Parcels Made Up of a Box Filled with Wrapped Candy—Namely, Caramels.) J. N. COLLINS COMPANY, Minneapolis, Minn. Filed July 1, 1922.

24,831.—*Title:* "ALOHA." (For Chocolates, Namely Cherry Cocktail.) CONNOR & MCCORMICK, Los Angeles, Calif. Filed June 3, 1922.

24,832.—*Title:* "RECHARGE." (For Chemical Heaters.) CONSTANT HEAT PACK CORPORATION, Albany, N. Y. Filed July 1, 1922.

24,833.—*Title:* "PORK-ORENO." (For Containers for Fishing Bait.) JOHN R. CUNNINGHAM, Kansas City, Mo. Filed June 9, 1922.

24,834.—*Title:* "BONNIE BLUE." (For Bias Seam Tapes.) THE ECONOMY BIAS BINDING CO., New York, N. Y. Filed December 29, 1919.

24,835.—*Title:* "EMERSON'S GINGER-MINT JULEP." (For Nonalcoholic Beverages Sold at Fountains and in Bottles as a Soft Drink.) EMERSON DRUG COMPANY, Baltimore, Md. Filed July 1, 1922.

24,836.—*Title:* "BINGO." (For Bug Killer.) THE ENTOMOLOGICAL LABORATORIES OF NORTH AMERICA, Jersey City, N. J. Filed March 16, 1922.

24,837.—*Title:* "OREGON BRAND MILK." (For Evaporated Unsweetened Milk.) HENNINGSEN PRODUCE COMPANY, Portland, Oreg. Filed May 2, 1921.

24,838.—*Title:* "HIRES HOUSEHOLD EXTRACT FOR MAKING GINGER ALE AT HOME." (For Cartons Containing Ginger-Ale Extract.) THE CHARLES E. HIRES COMPANY, Philadelphia, Pa. Filed June 30, 1922.

24,839.—*Title:* "OHIO." (For Malt Extract.) LEE M. HIRSCHLER, doing business as Hirschler & Co., Cincinnati, Ohio. Filed July 18, 1921.

24,840.—*Title:* "GREAT WESTERN." (For Malt Extract.) LEE M. HIRSCHLER, doing business as Hirschler & Co., Cincinnati, Ohio. Filed July 18, 1922.

24,841.—*Title:* "OLD HOLLAND." (For Malt Extract.) LEE M. HIRSCHLER, doing business as Hirschler & Co., Cincinnati, Ohio. Filed June 29, 1922.

24,842.—*Title:* "DR. HUFF'S COMBINATION TOOTH POWDER AND MOUTH WASH WILL NEUTRALIZE THE ACIDS AND PREVENT FERMENTATION." (For Metal or Other Containers for Tooth Powder.) OLIVER WENDALL HUFF, doing business as Dr. Huff's Tooth Powder Co., Hot Springs, Ark. Filed July 13, 1922.

24,843.—*Title:* "KERN'S SLICED BACON." (For Sliced Bacon.) GEORGE KERN, INC., New York, N. Y. Filed May 6, 1922.

24,844.—*Title:* "AUNT MOLLY'S HOME MADE CANDIES." (For Boxes Containing Candy.) AUNT MOLLY'S KITCHEN, Muskegon, Mich. Filed June 5, 1922.

24,845.—*Title:* "IRIS." (For Cantaloupes.) R. KRASNOW & SONS, INC., Pittsburgh, Pa., and Fresno, Calif. Filed June 30, 1922.

24,846.—*Title:* "ALWAYS BEST." (For Oranges.) B. KRASNOW & SONS, INC., Pittsburgh, Pa., and Fresno, Calif. Filed June 30, 1922.

24,847.—*Title:* "ORCHID." (For Grapes.) R. KRASNOW & SONS, INC., Pittsburgh, Pa., and Fresno, Calif. Filed June 30, 1922.

24,848.—*Title:* "4 MOST." (For Oranges.) R. KRASNOW & SONS, INC., Pittsburgh, Pa., and Fresno, Calif. Filed June 30, 1922.

24,849.—*Title:* "IRIS." (For Fresh Grapes.) R. KRASNOW & SONS, INC., Pittsburgh, Pa., and Fresno, Calif. Filed June 30, 1922.

24,850.—*Title:* "BROOK-KNIT." (For Pure-Wool Knit Cloth.) H. & W. H. LEWIS, INC., Philadelphia, Pa. Filed June 20, 1921.

24,851.—*Title:* "BIG SIX." (For Coffee.) THE LOUISVILLE COFFEE COMPANY, Louisville, Ky. Filed June 26, 1922.

24,852.—*Title:* "BIG BEN." (For Coffee.) THE LOUISVILLE COFFEE COMPANY, Louisville, Ky. Filed June 26, 1922.

24,853.—*Title:* "KENTUCKY CLUB SMOKING MIXTURE." (For Smoking Tobacco.) LOVELL-BUFFINGTON TOBACCO CO., Covington, Ky. Filed May 22, 1922.

24,854.—*Title:* "CREST HIGH GRADE GRANULATED CUT PLUG SMOKING." (For Smoking Tobacco.) LOVELL-BUFFINGTON TOBACCO CO., Covington, Ky. Filed May 22, 1922.

24,855.—*Title:* "FAMOUS — SEALINES — MOLINES—HUDSON—SEAL." (For Furs and Skins.) ATTILIO PIERINI, doing business under the name of Great Northern Fur Dyeing & Dressing Co., Brooklyn, N. Y. Filed February 17, 1921.

24,856.—*Title:* "NORTHERN SEAL." (For Furs and Skins.) ATTILIO PIERINI, doing business under the name of Great Northern Fur Dyeing & Dressing Company, Brooklyn, N. Y. Filed April 4, 1921.

24,857.—*Title:* "GASTROIDS." (For a Remedy for the Liver and Stomach.) EUGENE S. PRICE, New York, N. Y. Filed June 8, 1922.

24,858.—*Title:* "LISTENING IN." (For Motion-Picture Films.) RADIO-FILMS, INC., Hollywood, Calif. Filed June 27, 1922.

24,859.—*Title:* "RADIOGRAMS." (For Motion-Picture Films.) RADIOGRAMS, INC., Hollywood, Calif. Filed June 27, 1922.

24,860.—*Title:* "SCHNEIDER'S SIMPLEX SYSTEM OF INSTRUCTION FOR VIOLIN, MANDOLIN, AND MANDOLIN-BANJO." (For Instruction Books and Phonograph Records for Use in Teaching Music.) FRED M. SCHNEIDER, Blue Island, Ill. Filed June 5, 1922.

24,861.—*Title:* "S AND L SUPERLATIVE AUTOMOBILE POLISH." (For Bottles, Cans, Cartons, or Other Containers in Which the Automobile Polish is Marketed.) SILVEIRA & LORENZ, Vallejo, Calif. Filed July 1, 1922.

24,862.—*Title:* "JEWEL FREEZER." (For Ice-Cream Freezers.) STEINFELD BROS., New York, N. Y. Filed June 30, 1922.

24,863.—*Title:* "CLASSIQUE." (For Hair Nets.) AUGUSTUS A. WEST, Philadelphia, Pa., assignor to David L. Short, Philadelphia, Pa. Filed May 31, 1919.

24,864.—*Title:* "THE EVERY-DAY NET." (For Hair Nets.) AUGUSTUS A. WEST, Philadelphia, Pa., assignor to David L. Short, Philadelphia, Pa. Filed May 31, 1919.

24,865.—*Title:* "TOWN AND COUNTRY." (For Hair Nets.) AUGUSTUS A. WEST, Philadelphia, Pa., assignor to David L. Short, Philadelphia, Pa. Filed May 31, 1919.

24,866.—*Title:* "SIMPLICITY." (For Hair Nets.) AUGUSTUS A. WEST, Philadelphia, Pa., assignor to David L. Short, Philadelphia, Pa. Filed May 31, 1922.

24,867.—*Title:* "THE TEST THAT PROVES SPEARMINT TOOTH PASTE GOOD FOR CHILDREN—AND FOR GROWN UPS, TOO!" (For Tooth Paste.) WRIGLEY PHARMACEUTICAL CO., Philadelphia, Pa. Filed May 19, 1922.

PRINTS

REGISTERED AUGUST 8, 1922.

6,253.—*Title:* "THE WORLD KNOWS—." (For Advertising Purposes for Candy.) THE AROMINT MFG. COMPANY, Cincinnati, Ohio. Filed June 29, 1922.

6,254.—*Title:* "'CATTARAUGUS SCOUT'." (For Advertising Purposes for Knives.) THE CATTARAUGUS CUTLERY CO., Little Valley, N. Y. Filed June 28, 1922.

6,255.—*Title:* "THIS IS JELL-WELL." (For Advertising Purposes for Compound of Sugar, Gelatin, and Fruit Acid.) THE MILES MANUFACTURING COMPANY, INCORPORATED, Los Angeles, Calif. Filed May 26, 1922.

6,256.—*Title:* "PERFECTED FOR YOU." (For Advertising Purposes for Drugs.) E. R. SQUIBB & SONS, New York, N. Y. Filed June 29, 1922.

6,257.—*Title:* "'DEPENDABILITY PLUS'." (For Advertising Purposes for Drugs.) E. R. SQUIBB & SONS, New York, N. Y. Filed June 29, 1922.

6,258.—*Title:* "STEADFAST THROUGH THE YEARS." (For Advertising Purposes for Drugs.) E. R. SQUIBB & SONS, New York, N. Y. Filed June 29, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

IN RE PRESCOTT AND RUMMLER.

No. 1460. Decided February 6, 1922.

1. PATENTABILITY—TIRE-CHANGING DEVICE.

To incorporate in a single structure a demountable wheel, a demountable rim, and a Q. D. rim, *Held* to involve invention.

2. CLAIMS—ALLOWANCE OF A LARGE NUMBER DISAPPROVED.

Where a single claim completely covers an applicant's contribution to the art, *Held* that there is no reason for allowing a large number of claims and thus inviting controversy and litigation.

Mr. Robert F. Rogers for Prescott and Rummler.

Mr. T. A. Hostetler for the Commissioner of Patents.

ROSS, *J.:*

Appeal from a decision of the Patent Office rejecting claims 1 to 6, inclusive, 13, 18, 22, 23, 24, and 26 to 31, inclusive, in an application. Claim 28, in our view, fairly covers what applicant has done, and therefore is here reproduced:

28. In a wheel equipment standardizing device, the combination with a hub, of a disc body removably mounted on said hub and having an integral seat for fully supporting a tire rim, and a quick-detachable tire rim removably mounted on said seat, whereby a tire may be removed either alone, or with the rim as a unit, or with the rim and body as a unit.

In their specification applicants say:

Heretofore passenger motor cars have been equipped with one of three distinct types of wheels; one type having nondemountable bodies and nondemountable rims, another having nondemountable bodies and demountable rims, and the other having demountable bodies and nondemountable rims. Some car users prefer one type, some another. To meet the demands of the trade it has heretofore been necessary to manufacture several sizes of each type, and this necessitated the manufacture of as many sizes of tires, with numerous oversizes. The cars of each maker are supplied with wheels of one of the above mentioned types as standard equipment. In so far as the wheels are concerned, each car satisfies only one of the three classes of users. To satisfy the other classes the wheels must be changed. To change the type of wheels on a built car involves not only the cost of the new wheels but the cost of refitting their hubs. This is an expensive proceeding which takes time and is usually a source of considerable annoyance, but it has been unavoidable. * * * The present wheel obviates all of these difficulties by including in a practical single wheel organization the heretofore distinguishing features of all three types, the wheel being capable of use in either of the three ways without change, loss of time, or additional cost. * * * The present wheel is in a broad sense a practical wheel of a new type, which, since it is capable of use without change on all passenger cars and in either of the three ways desired, may be termed a universal type.

The question at issue was thus tersely stated by the Commissioner:

The gist of this case appears to be whether or not it is invention to provide a wheel with three "tire-changing systems," and thus so fit out a car that the buyer may obtain as standard equipment his preference of tire-changing device. The three "systems" are demountable wheels, demountable rims, and Q. D. or quick-detachable rims, each of which is in common use and is preferred by some operators.

In applicants' combination certain material capabilities of three wheels of the prior art are combined. While it is true that each element of the new combination is old, we do not think it may be said that each of these elements functions independently of and without reference to the others, for in combination they form a unitary structure wherein each element necessarily supports and supplements the others. Through the combination a new result is effected, namely, a wheel possessing certain essential characteristics of three wheels of the prior art. In this respect the case differs from *Grinnell Washing Mach. Co.* v. *Johnson Co.* (247 U. S., 426; 254 O. G., 225). Although the question is close, we incline to the view that the idea involved something more than mechanical ability. In such a case we resolve the doubt in favor of the applicant. *In re Huff* (48 App., D. C., 258; 259 O. G., 886). Inasmuch, however, as claim 28 completely covers applicants' contribution to the art, there is no reason for allowing a large number of claims, and thus inviting controversy and litigation.

The decision therefore will be affirmed as to claims 1 to 6, inclusive, 13, 18, 22, 23, 24, 26, 27, 29, 30, and 31, and reversed as to claim 28.

Affirmed in part and reversed in part.

U. S. Circuit Court of Appeals—Eighth Circuit.

LACLEDE-CHRISTY CLAY PRODUCTS CO. *v.* CITY OF ST. LOUIS.

Decided April 24, 1922.

[280 Fed. Rep., 83.]

PATENTS—NO. 986,455, CLAIMS 1 TO 3, FOR FURNACE ARCH, HELD ANTICIPATED.

Girtanner patent, No. 986,455, claims 1 to 3, for a furnace arch having parallel I-beams on which are brackets from which tile are suspended by tongue and groove arrangement, *Held* void for anticipation.

APPEAL from the District Court of the United States for the Eastern District of Missouri; Charles B. Faris, judge.

Suit in equity for infringement of a patent by Laclede-Christy Clay Products Company against the City of St. Louis. From a decree dismissing the bill (270 Fed., 338), complainant appeals. Affirmed.

Mr. Thomas H. Sheridan and *Mr. Thomas F. Sheridan* (*Mr. Jesse McDonald* on the brief) for the appellant.

Mr. James A. Carr (*Mr. Henry S. Caulfield* and *Mr. Joseph J. Gravely* on the brief) for the appellee.

Before SANBORN, STONE, and LEWIS, Circuit Judges.

LEWIS, *Cir. J.*:

This suit is for infringement of rights alleged to belong to appellant under Girtanner's Letters Patent 986,455, issued March 14, 1911, on application of January 8, 1910, for a furnace arch. On final hearing the district judge, in a well-considered opinion (270 Fed., 338), sustained the defense of anticipation as to the involved claims 1, 2 and 3, and dismissed the complaint. The three claims are so nearly alike that we adopt the course of appellant in setting out only claim 3 as the most specific and best to consider:

> In a furnace arch, the combination with a pair of I-beams extending across the furnace, of brackets supported by said I-beams; each of said brackets comprising a pair of separate end-pieces one extending at the front, the other at the rear of said I-beams, and a separate center piece extending between said I-beams; flanges on the lower edges of both said end-pieces and said center piece, and tiles provided with grooves to receive said flanges.

Broadly speaking, the claim contains three elements separated above by semicolons, as will be seen; the first and third of which seem without doubt to have been embodied in prior patents set up in the answer. Stimmel's patent, 944,296, issued December, 1909, on application of March 18, 1909, for improvement in tops for furnaces, does not call for I-beams but "main supporting elements" in his claims, and his specification and drawings show three I-beams extending across the furnace, one at the front, rear and center as supports for the tile-carrying elements; Girtanner's earlier patent, 910,809, issued January 26, 1909, for arch for furnaces, has one I-beam transverse the center, supporting integral brackets extending both rearward and forward,—both are of flat-arch type. Further, Green and Gent's patent, 676,606, issued June 18, 1909, for arch for furnaces, calls for "a plurality of transverse girders which rest at their ends on the side walls of the furnace," and Poppenhusen's patent, 783,132, issued February 21, 1905, shows three transverse supporting girders. The purpose of the transverse I-beams or girders in all cases is to give support to the burden of the underhanging fire brick or tile. Thus as to the first element, there was not only anticipation by Stimmel, Green and Gent and Poppenhusen in the use of more than one transverse support, but also we agree with the trial court that the question whether two (or more) I-beams (or girders of other form) should be used, as called for in the three patents last-noted and in Girtanner's second, rather than one as called for in his first patent, is a question answered by mechanical suggestion when it is desired to make the arch longer.

Again, as to the third element, it seems to us there is nothing new in the patent in suit; for Girtanner's first patent has the grooved tile fitting into lateral extensions of pendent portions of the brackets, and Green and Gent call for—

> beams attached to the lower edges of the said girders and extending beneath the same, said beams being provided with lateral flanges, and firebrick provided with lateral grooves in their side faces near their upper surfaces, adapted to engage said flanges of the beams, said firebrick being suspended from said beams with their upper surfaces below and free from all contact with said girders.

This is identical barring choice of terms; one says I-beams and brackets, the other girders and beams, for the same thing. And Poppenhusen shows—

> beams (brackets) provided with flanges at their lower edges which engage grooves in the adjacent side faces of firebrick.

The obvious purpose in all was to position the fire brick in the top of the furnace between the suspending members and direct heat contact, as a shield.

The second element opens the field of contention. Along with it attention is called to the specification:

> It will be evident that with my construction a flat arch of any desired length can be readily supported, and at the same time the separate parts of the arch can be readily renewed in case of injury.

It is insisted that Girtanner's first patent called for one transverse I-beam which supported integral brackets extending rearward and forward over the length of the arch, while the structure disclosed in his second patent, which calls for two I-beams spaced apart, with brackets in three separate pieces, one extending forward from the front I-beam, one extending rearward from the rear I-beam, and one between the two, demonstrates inventive genius in devising means for lengthening the arch. But a plurality of transverse supports was disclosed, as noted, in prior patents, and Girtanner lengthened the arch in the same way by using two beams instead of one. That was anticipated, if patentable; though we think it wholly within mechanical suggestion. Ordinarily, the making of two or more parts out of a thing that had theretofore been used in one part, and using the separate parts to serve the purpose that had been served before the division is not invention. (*Howard* v. *Detroit Stove Works*, 150 U. S., 164; 14 Sup. Ct., 68; 37 L. Ed., 1039; *D'Arcy* v. *Staples & Hanford Co.*, 161 Fed., 733; 88 C. C. A., 606; *Mueller Mfg. Co.* v. *Mfg. Co.* (D. C.), 164 Fed., 991; *Gen. Elec. Co.* v. *Heat & Motor Co.* (D. C.), 205 Fed., 42.)

However, where a discovery embodies coacting elements, although they be old, yet, if when brought together in a way not theretofore known, they produce by their interaction a new and useful result, the combination is patentable (*Regent Mfg. Co.* v. *Penn. Elec. Mfg. Co.*, 121 Fed., 80, 83; 57 C. C. A., 334); and if one of the elements in the combination be removed or changed so that their interaction is then in another way (in obedience to a different cooperative law), there is nevertheless invention, although the same result is attained; for in that case

a different idea of means expresses the discovery, and the new is not an equivalent of the old. (1 Robinson on Patents, sec. 254.) But the inquiry in such a case is always one of fact, whether the change or rearrangement of those elements has, in their coaction, produced the old result in a different way; and here we fail to find that it has done so. The three elements in combination, whether the brackets be integral or in three parts, were utilized for the same purpose, and perform the same function in the same way and produce the same result for which they were used in other prior patents. Whether integral or in separate parts, the one useful purpose of a bracket, so-called, was to engage the tile and hold them suspended between the fire and the supporting elements. But in all the patents that have been mentioned this purpose was successfully attained in the same way.

The principal insistance is on the latter part of the quotation from the specification. It is said that fire brick or tile at the rear end of the furnace are subject to the greatest heat, that they are liable to give way and the end of the bracket may become damaged or burned off, and that repair is made easy by simply removing that part of the bracket and putting in a new part, leaving undisturbed the remaining parts. We think the answer to this, and all other claims based on a tile-supporting bracket of cantilever form, is McKenzie's patent, issued August 9, 1904, for fire arch for furnaces, in which claim 1 reads:

> In a fire arch of the class described, the combination of beam mechanism arranged transversely across the furnace, a plurality of brackets attached thereto and extending inwardly therefrom, a plurality of beams longitudinally disposed and removably attached to the inwardly extending brackets and provided with grooves in the lower portion thereof, and a plurality of fire brick or tile provided with portions engaging the grooved mechanism of the longitudinal beams to permit the easy insertion or removal of said tile mechanism, substantially as described.

The claimed purpose to be attained (easy repair and renewal of brackets) appears to be as readily attainable by the use of one as by the use of the other, that is, the means in the two patents are equivalents; and McKenzie was first.

Affirmed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

680,395, J. Pfleger, Indoxyl derivatives; 868,294, R. Schmidlin, Process for producing phenylglycine, etc.; 718,340, O. J. Graul, Process of making omega-cyan methyl derivatives, etc., suit filed June 23, 1922, U. S. D. C., D. Del., Doc. 487, *The Chemical Foundation, Inc.* v. *E. J. du Pont de Nemours & Co. and F. White.*

718,340. (See 680,395.)

724,789. (See 1,063,173.)

739,145. (See 1,063,173.)

741,029, R. Gley and O. Siebert, Red azo dye lake, suit filed June 23, 1922, U. S. D. C., D. Del., Doc. 484, *The Chemical Foundation, Inc.* v. *The Ault & Wiborg Co. et al.*

753,659. (See 1,063,173.)

757,608, 792,977, 798,894, F. J. Fewings, Car and engine replacer, suit filed June 9, 1920, U. S. D. C., N. D. Ill. (E. Div.), Doc. 1474, *The Q. & C. Co.* v. *J. V. Wescott.* Defendant enjoined from infringing certain claims. February 18, 1922.

787,859. (See 1,063,173.)

792,977. (See 757,608.)

796,393. (See 1,063,173.)

796,402, L. E. Curtis; 799,299, O. Bradford; 1,011,588, L. E. Curtis; 1,125,526, J. W. Hayes, Machine for expanding sheet metal, suit filed July 14, 1922, U. S. D. C., N. D. Ohio. Doc. 749, *Northwestern Expanded Metal Co.* v. *The Truscon Steel Co.*

798,894. (See 757,608.)

799,299. (See 796,402.)

818,992. (See 1,063,173.)

868,294. (See 680,395.)

906,367. (See 1,063,173.)

949,442, H. L. Rodman, Cementation compounds, suit filed March 31, 1921, U. S. D. C., N. D. Ill., Doc. 2060, *Rodman Chemical Co.* v. *J. Scofield, Admx.* Injunct'on against defendant as to certain claims. June 8, 1922.

958,178, J. T. Ridgway, Silos, suit filed July 10, 1922, U. S. D. C., S. D. N. Y., Doc. E 24–178, *Davey Tree Expert Co.* v. *W. F. Leary.*

958,578, W. E. Davey, Process of reinforcing trees, suit filed July 20, 1922, U. S. D. C., D. Conn., Doc. 1611, *Davey Tree Expert Co.* v. *J. Kelley.*

961,612. (See 1,063,173.)

984,236, J. F. O'Connor, Roller side bearing, suit filed April 11, 1917, U. S. D. C., N. D. Ill., Doc. 857, *W. H. Miner* v. *E. S. Woods & Co. et al.* Perpetual injunction against defendant as to certain claims. June 9, 1922.

994,437, O. Aschan and W. Kempe, Process of preparing camphor, suit filed June 23, 1922, U. S. D. C., D. Del., Doc. 485, *The Chemical Foundation, Inc.* v. *H. Nelson, Chemical Refining Syndicate and F. White.*

1,003,268. (See 1,163,173.)

1,011,588. (See 796,402.)

1,029,321, J. Schaffer, Sheet-metal boxes, suit filed July 8, 1922, U. S. D. C., S. D. N. Y., Doc. E 24–176, *J. Schaffer* v. *Mager & Newman.*

1,055,701. (See 1,063,173.)

1,063,173, C. Rampini; 724,789, 753,659, 739,145, 1,055,701, R. Bohn; 1,150,863, R. Just and F. Eckhard; 787,859, R. H. Scholl and O. Bally; 818,992, O. Bally and M. H. Isler; 796,393, O. Bally; 906,367, O. Bally and H. Wolff; 1,003,268, R. Just and H. Wolff; 961,612, M. H. Isler and H. Wolff, Dyes and coloring matter, suit filed June 23, 1922, U. S. D. C., D. Del., Doc. 486, *The Chemical Foundation, Inc.* v. *E. I. du Pont de Nemours & Co. and F. White.*

1,092,540, L. E. Robinson, Dry-hole plugs for wells, suit filed May 3, 1920, U. S. D. C., D. Kans. (3d

Div.), Doc. 131–N, *E. A. Robinson, Admx.* v. *Robinson Packer Co. et al.* Decree issued February 27, 1922, awarding royalty to plaintiff.

1,125,526. (See 796,402.)

1,150,863. (See 1,063,173.)

1,180,571, L. G. Copeman, Automatically-controlled electric cooking apparatus, suit filed July 12, 1922, U. S. D. C., S. D. N. Y., Doc. E 24–184, *Westinghouse Electric Products Co.* v. *Edison Electric Appliance Co.*

1,208,297. (See Re. 12,725.)

1,219,881, 1,243,458, 1,302,606, 1,322,650, G. Sundback, Separable fasteners, suit filed July 8, 1922, U. S. D. C., S. D. N. Y., Doc. E 24–177, *Hookless Fastener Co.* v. *Stearn Co.*

1,243,458. (See 1,219,881.)

1,296,869, L. U. Snow, Blowtorch, suit filed July 15, 1922, U. S. D. C., D. Mass., Doc. 1748 Eq., *S. Lenk* v. *Hunt Lasher Co., Inc.*

1,302,606. (See 1,219,881.)

1,322,650. (See 1,219,881.)

1,414,980, E. G. Clements, Repeating attachment for talking machines, suit filed July 10, 1922, U. S. D. C., S. D. N. Y., Doc. E 24–179, *E. G. Clements and Gold Seal Co.* v. *B. Reichard.*

Design 56,943, J. G. Peterson, Cap for electrical attachment plugs, suit filed July 20, 1922, U. S. D. C., D. Conn., Doc. 1611, *J. G. Peterson* v. *The Connecticut Electric Equipment Co., Inc.*

Re. 12,725 (original No. 799,854), R. G. Inwood and P. C. Lavenberg, Boxes; 1,208,297, E. Craig, Box making, suit filed April 21, 1922, U. S. D. C., N. D. Ill. (E. Div.), Doc. 2689, *Wirebounds Patent Co. and 4-One Box Machine Makers* v. *H. R. Gibbons Box Co.* Preliminary injunction granted. May 16, 1922.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 12, 1922.

Rainbow Ale Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Keystone Fruit Products Company, of 106 West Second Street, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered February 26, 1907, No. 60,913, to the Rainbow Ale Company, of 34 Madison Avenue, Atlanta, Ga., and a notice of such declaration sent by registered mail to said Rainbow Ale Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Rainbow Ale Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 13, 1922.

Monte W. Burd, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Marshall Field & Company, of 219 West Adams Street, Chicago, Ill., and Hunter Mfg. & Com. Co., of 58 Worth Street, New York, N. Y., for registration of certain trade-marks and trade-marks registered March 20, 1906, No. 50,537, and February 14, 1905, No. 44,106, to Monte W. Burd, of 631 West Main Street, Louisville, Ky., and a notice of such declaration sent by registered mail to said Monte W. Burd at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Monte W. Burd, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 11, 1922.

Harry Pennington, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of William F. Huff, 1445 West 25th Street, Los Angeles, Calif., for patent and the application of Harry Pennington, 614 Ninth Street, Wichita Falls, Tex., for patent, and a notice of such declaration sent by registered mail to Pennington at his last address of record, 3640 Stratford Avenue, Highland Park, Dallas, Tex., having been returned by the post office undeliverable, notice is hereby given that unless said Pennington, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 11, 1922.

Gilmour Bros. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Cumberland Tobacco Works, Inc., of Nashville, Tenn., for registration of a trade-mark and trade-mark registered Jan. 30, 1894, No. 24,141, to Gilmour Bros. Co., Owensboro, Ky., and because of prima facie evidence in the record to the effect that Gilmour Bros. Co. is no longer in business, notice is hereby given that unless said Gilmour Bros. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 29, 1922.

Omnia Chemical Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. Pfeiffer Mfg. Co., 3947 Laclede Avenue, St. Louis, Mo., for registration of a trade-mark and trade-marks registered February 14, 1905, and October 31, 1905, No. 44,182 and No. 47,235, respectively, to the Omnia Chemical Co., of New York, N. Y., and a notice of such declaration sent by registered mail to said Omnia Chemical Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Omnia Chemical Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Patents Nos. 1,425,502 to 1,426,339.

THE
OFFICIAL GAZETTE
OF THE
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Prints	13—No.	6,259 to No. 6,271, inclusive.
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Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 21, 1922.

Gilmour Bros. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Cumberland Tobacco Works, Inc., of Nashville, Tenn., for registration of a trade-mark and trade-mark registered Jan. 30, 1894, No. 24,141, to Gilmour Bros. Co., Owensboro, Ky., and because of prima facie evidence in the record to the effect that Gilmour Bros. Co. is no longer in business, notice is hereby given that unless said Gilmour Bros. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 19, 1922.

Omnia Chemical Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. Pfeiffer Mfg. Co., 3947 Laclede Avenue, St. Louis, Mo., for registration of a trade-mark and trade-marks registered February 14, 1905, and October 31, 1905, No. 44,182 and No. 47,235, respectively, to the Omnia Chemical Co., of New York, N. Y., and a notice of such declaration sent by registered mail to said Omnia Chemical Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Omnia Chemical Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 4, 1922.

Samuel Broom and Otto L. Meyer, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Roggen Bros. & Co., of 649 Broadway, New York, N. Y., for registration of a trade-mark and trade-mark registered July 28, 1896, No. 28,667, to Samuel Broom and Otto L. Meyer, of 44 White Street, New York, N. Y., and a notice of such declaration sent by registered mail to Samuel Broom and Otto L. Meyer at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Samuel Broom and Otto L. Meyer, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,313,486.

On July 15, 1922, a decision was rendered that Richard B. Iseman was not the first inventor of the subject matter covered by claims 1 and 5 of his Patent No. 1,313,486, subject, "Traveling automobile turntables," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,325,193.

On July 11, 1922, a decision was rendered that Adolph Fuchs was not the first inventor of the subject matter covered by claim 3 of his Patent No. 1,325,193, subject, "Automobile signal," and no appeal having been taken within the time allowed such decision has become final.

Amendments.

RULE 73. In every amendment the exact word or words to be stricken out or inserted in the application must be specified and the precise point indicated where the erasure or insertion is to be made. All such amendments must be on sheets of paper separate from the papers previously filed, and written on but one side of the paper. Erasures, additions, insertions, or mutilations of the papers and records must not be made by the applicant.

Amendments and papers requiring the signature of the applicant must, also, in case of assignment of an undivided part of the invention, be signed by the assignee. (Rules 6, 107.)

Condition of Applications Under Examination at Close of Business August 5, 1922.

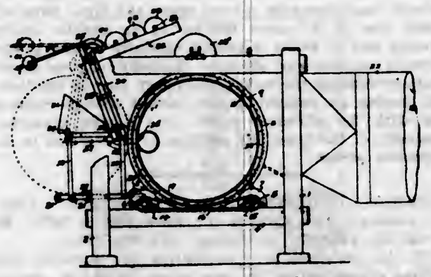
(Total number of applications waiting action, excluding Trade-Mark division, 67,926; Trade-Mark division, 8,044. Oldest new case, Apr. 21; oldest amended, Apr. 18, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Dec. 13	*Jan. 12	962
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	Aug. 17	July 21	1,816
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 16	Aug. 19	907
234	4. MERRITT, A. D., Conveyors; Conveyors, Fluid Current; Conveyors, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 1	*June 10	1,421
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 12	Oct. 10	1,158
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Oct. 24	*Mar. 11	1,354
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Nov. 19	Nov. 26	2,249
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*May 1	*June 17	929
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	June 25	*June 10	1,119
265	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	*Jan. 27	*May 1	1,055
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 23	*Feb. 28	786
122	12. PIERCE, P. F., Machine Elements	*Jan. 3	*Apr. 26	1,194
220	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	July 11	*Apr. 24	1,656
223	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 24	*Mar. 25	1,193
208	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 15	Sept. 16	1,729
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Aug. 16	Aug. 10	2,409
207	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Sept. 15	*Mar. 4	1,431
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	June 15	July 1	2,402
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	July 2	Dec. 29	1,185
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Feb. 27	*Mar. 9	1,524
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Oct. 14	*Apr. 3	909
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Nov. 25	*Mar. 31	652
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Aug. 4	Nov. 25	811
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 17	*Mar. 20	1,204
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 12	*Apr. 26	422
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 8	*Jan. 20	1,082
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Oct. 7	Sept. 19	2,022
235	28. BENSON, A. R., Internal-Combustion Engines	Nov. 14	Oct. 6	1,675
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Nov. 5	*June 2	640
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 30	*May 8	1,442
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 2	Oct. 4	2,131
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Oct. 3	*Apr. 18	963
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Dec. 15	Feb. 6	934
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Apr. 5	*Apr. 5	569
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 13	*Mar. 26	1,006
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 8	*Feb. 9	1,853
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Sept. 14	Sept. 28	1,833
278	38. IDE, G. E., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Walls.	Oct. 24	Oct. 24	1,755
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 4	June 21	2,130
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 29	Nov. 23	2,530
125	41. BROWN, J. I., Land Vehicles, Wheels and Axes; Resilient Tires and Wheels	*Mar. 10	*Mar. 30	834
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Sept. 12	Aug. 19	1,947
282	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Sept. 10	Oct. 4	1,108
283	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 12	Dec. 28	1,387
279	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Meters; Spring Devices	Dec. 21	*Feb. 3	1,264
232	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 26	Dec. 8	1,261
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Oct. 28	*Feb. 24	1,189
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	Apr. 21	Apr. 18	2,844
	49.	June 7	June 8	1,027
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.	Sept. 12	*Jan. 30	5,663
	Trade-Marks	*Jan. 5	*Apr. 4	2,316
	Designs	*July 22	*July 31	65
	Labels and Prints			

PATENTS

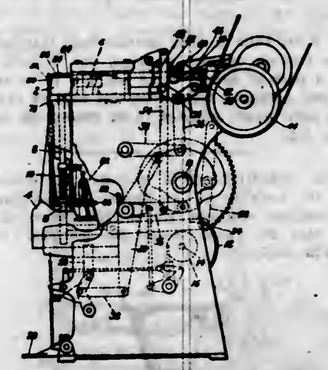
GRANTED AUGUST 15, 1922.

1,425,502. LINT CLEANER AND BATTING MACHINE. FREDERICK ALDER and JOHN C. ROGERS, Houston, Tex. Filed Dec. 17, 1920. Serial No. 431,505. 8 Claims. (Cl. 19—156.)



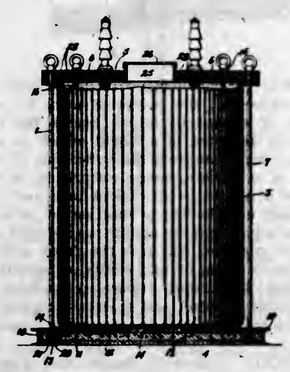
1. A device of the character described, including a framework, a drum mounted to revolve therein, an inlet chute arranged to deliver lint cotton to the drum, a lint roller arranged to receive the bat from said drum around which the bat is wound into a roll in rolling contact with the drum, and a dumping track along which said lint roller traveds from the drum as the roll increases in diameter.

1,425,503. UPPER-FORMING MACHINE. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 19, 1920. Serial No. 382,530. 23 Claims. (Cl. 12—97.)



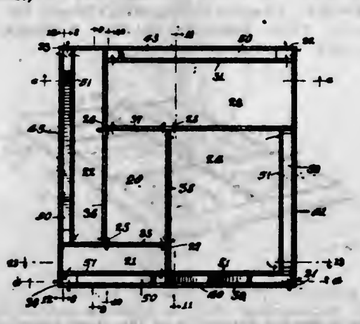
1. In a machine for shaping an upper over a shoe form, co-operating members arranged to engage the margin of the upper respectively on its outer and inner faces round an end of the form and movable lengthwise and laterally of the form with the margin of the upper so held between them as to permit it to slip as the members move inwardly, and controlling mechanism to cause said members after a determinate movement inwardly over the form to mold a portion of the margin between them to produce a flange at an angle to the bottom face of the form.

1,425,504. TRANSFORMER CONSTRUCTION. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Oct. 17, 1919. Serial No. 331,324. 4 Claims. (Cl. 72—13.)



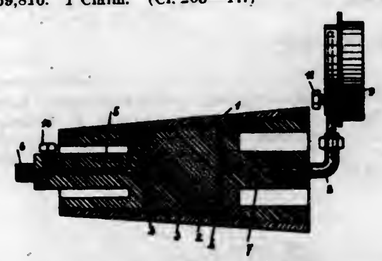
1. The combination with a sheet metal tank having a cover, of a supporting base for said tank comprising a metal frame set with a slab of reinforced concrete, and clamping rods extending between said base and cover to clamp said tank on said base.

1,425,505. APPARATUS FOR RECORDING, REPRODUCING, AND AMPLIFYING SOUND. CHARLES BLIESBERGER, New York, N. Y., assignor to A. Alexander Thomas, New York, N. Y. Continuation of application Serial No. 241,624, filed June 24, 1918. This application filed Sept. 20, 1919, Serial No. 325,256. Renewed Dec. 23, 1921. Serial No. 524,507. 12 Claims. (Cl. 274—2.)



1. In apparatus for recording and reproducing sound, walls forming a sound receiving chamber, and walls forming a plurality of adjacent sound-developing compartments, the receiving chamber having means of communication with the adjacent compartments and said compartments having means of communication with the outer air.

1,425,506. APPARATUS FOR MEASURING THE VALUE OF THE EFFORTS AND OF THE DEFORMATIONS TO WHICH ORGANS ARE SUBMITTED WHEN WORKING. LOUIS RODOLPHE WALTER BOULASSIER, Paris, France. Filed Apr. 8, 1921. Serial No. 459,810. 1 Claim. (Cl. 265—47.)



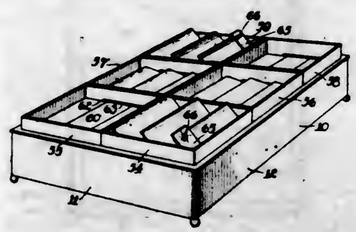
An apparatus for measuring the efforts and the deformations produced in the course of work by means of the variation of a capacity which causes the variation of the internal pressure of a liquid which is not compressible and which transmits the indication of the effort to the hand of a pressure gauge comprising in combination with the gauge an outer conical tube and a conical mandrel in said tube having a long hollow cavity in its surface extending around the middle part of said mandrel, two transverse passages one near the front end and the other near the rear end of said cavity, a central conduit extending from said front transverse passage to the front end of said mandrel and a second central conduit extending from said rear transverse passage to said gauge.

1,425,507. STUD. JAMES E. BRADY, New York, N. Y. Filed July 30, 1920. Serial No. 400,196. 2 Claims. (Cl. 72—115.)



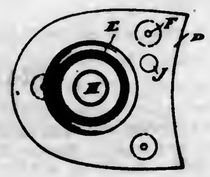
1. In a building stud, in combination, two concavo-convex members having their concave faces oppositely directed, a series of openings within said members, and screen means carried by the extremities of said members for maintaining the studs in vertical position.

1,425,508. MOVING DISPLAY APPARATUS FOR JEWELRY. CHARLES E. CHAPMAN, Chicago, Ill. Filed Sept. 17, 1921. Serial No. 501,370. 8 Claims. (Cl. 211—28.)



1. In a display apparatus of the class described, the combination with a supporting frame, of a lever mounted therein for oscillation in a vertical plane, a plurality of display platforms horizontally and tiltably mounted side by side on said frame crosswise of and above said lever for unitary movement, means carried by the lever and separably co-acting with one of said platforms to tilt the same upwardly and means to oscillate the lever.

1,425,509. RESILIENT HEEL. WALTER HENRY CLARKE, Toronto, Ontario, Canada. Filed Jan. 24, 1921. Serial No. 439,350. 1 Claim. (Cl. 36—35.)

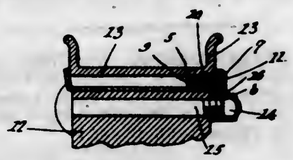


As a new article of manufacture, a rubber heel comprising complementally formed upper and lower lifts, the lower face of the upper lift having an annular groove therein and a socket arranged centrally of the groove defining an annular shoulder inwardly of the groove and surrounding the socket, the upper face of the lower lift having an annular groove formed therein registering with the aforesaid groove, and a stud projection centrally of the lower lift adapted to be received in the aforesaid socket.

1,425,510. UNDERCOATING COMPOSITION. LOUIS CROSSMAN, New York, N. Y. Filed Feb. 8, 1922. Serial No. 535,065. 12 Claims. (Cl. 134—79.)

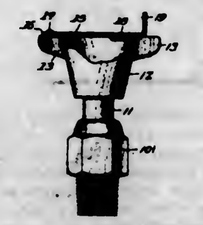
12. An under-coating composition for surfaces comprising approximately for each gallon, ¼ gallon acetone, ¼ gallon wood alcohol, ¼ gallon benzole, 2 ounces celluloid, 1 ounce shellac, ½ ounce amyl-acetate, and ½ ounce acetic acid.

1,425,511. RIM-LUG SHIM. JESSE TEMPLE CURTIS, Bement, Ill. Filed Jan. 26, 1920. Serial No. 354,159. 3 Claims. (Cl. 301—20.)



1. In a lug shim, a body portion bent intermediate its ends to provide opposed sections, one of said sections having a pair of spaced arms adapted to be positioned over a lug, a tongue formed on one edge of the opposed section, said tongue adapted to fit within the bolt opening of a lug.

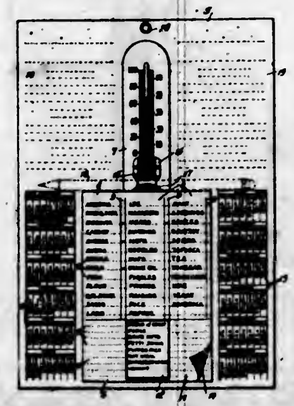
1,425,512. PRIMING CUP. AUGUST C. DOBRICK, Chicago, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 28, 1919. Serial No. 300,871. 2 Claims. (Cl. 123—187.5.)



1. In an apparatus of the class described, the combination with a priming cup having a receiving chamber, of a spring metal cover pivoted to one side of the top of said chamber so as to move only in a plane parallel

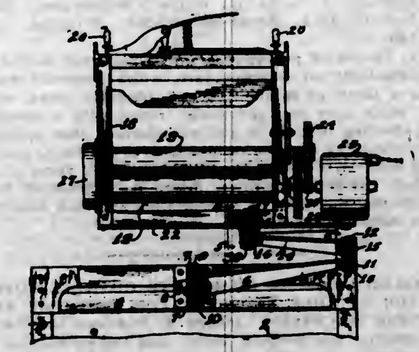
to the top of the receiving chamber, and having a segmentally shaped projection on the under side, thereof adapted to fit into the further side only of the chamber top from the pivot to hold the same from accidental movement while permitting it to be turned on its pivot when desired, the projection being entirely within the chamber when the cover is closed.

1,425,513. ADVERTISING NOVELTY. JOHN JOSEPH DONOVAN, New York, N. Y., assignor of one-half to F. C. List, Honesdale, Pa. Filed May 23, 1918. Serial No. 236,244. 1 Claim. (Cl. 283—2.)



A device of the character specified, comprising a support in the form of a foundation card, and a pad of sheets held on the card intermediate the side edges thereof, and spaced apart from the side edges, the sheets having similar printed data thereon similarly arranged, and the card having printed thereon at opposite sides of the pad between same and the side edges of the card in regular order the twelve tables of a monthly calendar, the sheets having checking spaces in connection with the printed data, and having other spaces for receiving dates to be ascertained from the calendar to identify the sheets.

1,425,514. WRINGER SUPPORT. HAROLD W. EDEN, Chicago, Ill. Filed July 21, 1919. Serial No. 312,349. 3 Claims. (Cl. 68—32.)



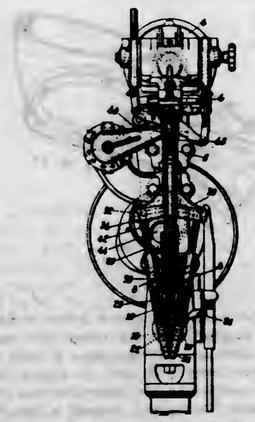
3. The combination with a polygonal support, a bracket pivoted to one side of said support, an arm pivoted to said bracket and swingable over either end of said support, and a wringer pivoted on said arm.

1,425,515. WINDOW SCREEN AND SASH LOCKER. CLAUDE ELLIS, Springville, N. Y. Filed June 3, 1921. Serial No. 474,644. 3 Claims. (Cl. 292—288.)



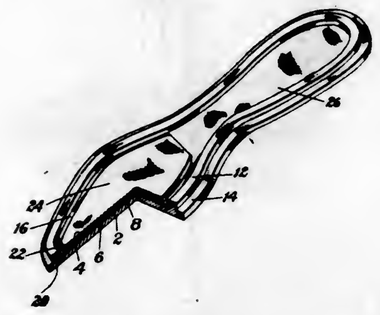
1. In a sash and screen locking device, the combination of two telescoping members, a rigid laterally projecting integral finger carried by one of said members and adapted to engage a frame of a window sash, and releasable means for securing said members together in different extended positions, an end of the other of said members being adapted to engage the frame of another window sash.

1,425,516. FASTENING-INSERTING MACHINE. EDWARD ERICKSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 23, 1918. Serial No. 224,186. 16 Claims. (Cl. 1—18.1.)



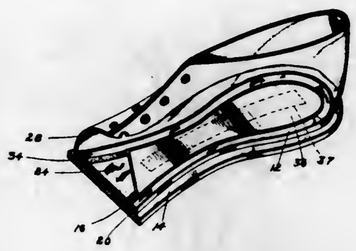
10. In a fastening inserting machine, fastening inserting mechanism arranged in close juxtaposition to each other to drive fastenings through a shank stiffener member and into a shoe sole to secure a shank stiffener in place, means for operating the inserting mechanisms to drive said fastenings substantially simultaneously in order to secure the stiffener in place at one operation of the machine, and a single means for adjusting the mechanisms to vary the spacing between driven fastenings in accordance with variations in the width of shank stiffeners.

1,425,517. SHOE SOLE. GEORGE FERGUSON, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 13, 1918. Serial No. 266,578. 5 Claims. (Cl. 36—32.)



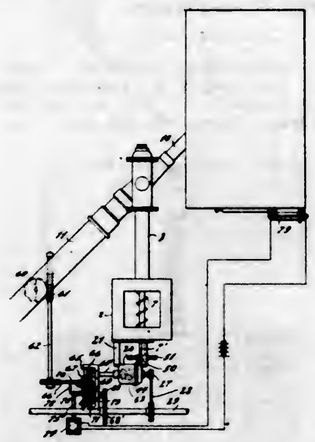
5. As an article of manufacture, a shoe sole comprising a composite sole-shaped blank molded to provide on its upper marginal surface a sewing rib which projects above the upper surface of the sole inside thereof through the shank and heel seat portion and which is substantially flush with the upper surface of the central portion of the sole through the forepart.

1,425,518. SHOE AND METHOD OF MAKING IT. GEORGE FERGUSON, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Dec. 13, 1918, Serial No. 266,578. Divided and this application filed Jan. 17, 1920. Serial No. 352,024. 14 Claims. (Cl. 12—142.)



1. The method of making a rubber soled turned shoe which consists in placing with its tread face upon the bottom of the first last a sole comprising a body portion of vulcanized rubber compound and an upper layer of fabric, there being molded on the upper face of the sole and extending around the margin thereof a flat feather, inside the feather a sewing rib, inside the rib a gutter, and inside the gutter a filler portion, the top of the filler portion being substantially flush with the top of the rib and the bottom of the gutter being located at a level at least as low as that of the feather, sewing an upper wrong side out to the rib of the sole thus supported, turning the shoe right side out and completing the manufacture of the shoe, including placing a lining member of sheet material in the bottom of the shoe with the under face of said member in contact with the top of the rib and the top of the raised filler portion of the sole.

1,425,519. AUTOMATIC STOKER. HANNIBAL C. FORD, New York, N. Y., assignor to Ford Instrument Company, Inc., a Corporation of New York. Filed Mar. 30, 1917. Serial No. 158,509. 4 Claims. (Cl. 110—104.)



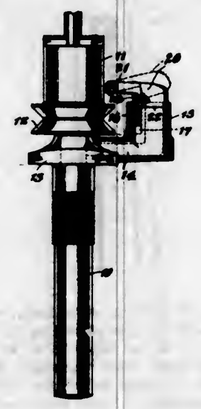
4. In an automatic stoker, a conduit for supplying air to a furnace, a conduit-controlling valve, means for supplying fuel to the furnace, a main drive shaft, variable speed mechanism for driving the fuel-supplying means from said shaft, a reversible connection extending to said valve to reversely operate the same and to said mechanism to regulate the speed thereof said connection including a shaft, gears loosely mounted on the last named shaft, and provided with clutch members, an intermediate clutch member drivingly combined with the same shaft, a connection from said main shaft to said loosely mounted gears to drive them in opposite directions, and thermostatically controlled means for shifting said intermediate clutch into engagement with one or the other of said loosely mounted gears.

1,425,520. PROCESS FOR PRODUCING PATTERNED TEXTILE FABRICS AND THE RESULTING PRODUCT. HENRY GIESLER, Brussels, Belgium, assignor to Heberlein & Co., A. G., Wattwil, Switzerland. Filed Nov. 10, 1914. Serial No. 871,283. 8 Claims. (Cl. 139—9.)

1. Process of producing fancy or patterned fabrics of substantially all vegetable yarn, which comprises weaving a fabric of substantially all vegetable yarns, some of which have been previously treated with a chemical so affecting them as to aid carbonization, then applying a neutralizing agent to certain areas of the fabric including both the treated and untreated vegetable yarns of the fabric and according to the design to be produced, then subjecting the fabric to carbonization and then removing the carbonized yarns.

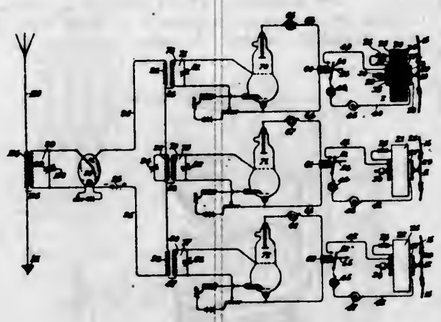
1,425,521. DOFFER GUARD AND OIL-WELL COVER FOR SPINDLE SUPPORTS FOR SPINNING AND LIKE MACHINES. JOSEPH R. GLENNON and LOUIS DUPUIS, New Bedford, Mass.; said Dupuis assignor to said Glennon. Filed June 8, 1921. Serial No. 475,915. 17 Claims. (Cl. 118—65.)

1. In a device of the class described, the combination of a bolster casing, an oil well post extending therefrom, a substantially L-shaped doffer guard mounted at its lower end on said post and shiftable thereon from operative to inoperative position relative to a spindle whorl,



and an oil well cover mounted on and supported by said guard and shiftable from an operative to an inoperative position relative to the oil well.

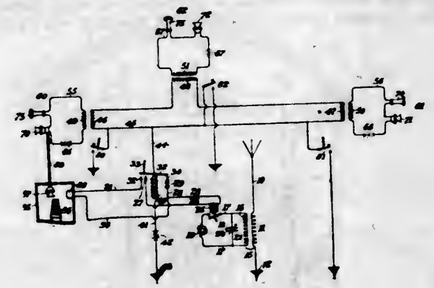
1,425,522. SYSTEM FOR SOUND TRANSMISSION. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed June 7, 1917, Serial No. 173,331. Renewed Dec. 8, 1921. Serial No. 520,992. 6 Claims. (Cl. 250—2.)



1. The combination with a plurality of sound transmitting devices arranged to transmit respectively a plurality of series of groups of sound waves having different wave frequencies and different group frequencies respectively, of means responsive to radiant energy for selectively controlling said devices.

1,425,523. TRANSMISSION SYSTEM FOR RADIANT ENERGY. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed June 22, 1917, Serial No. 176,309. Renewed Jan. 7, 1922. Serial No. 527,777. 19 Claims. (Cl. 250—17.)

1. The combination with means for transmitting energy, of means including a switch for controlling said transmission means, sound producing means controlled by said switch for announcing the operation of said switch,



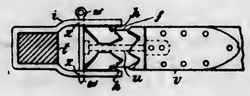
a distant station for operating said controlling means, and means for transmitting sound from said producing means to said distant station.

1,425,524. CAGE PERCH. WILLIAM HENRY HARRISON, Brooklyn, N. Y. Filed Oct. 11, 1920. Serial No. 416,012. 2 Claims. (Cl. 119—26.)



1. A washable cage perch for captive birds for the combined purpose of supporting the bird and maintaining its claws in normal condition, comprising an elongated member having provisions for sustaining it in an elevated position, and having both an extensive flat top surface and an extensive cylindrical top surface, both said flat and cylindrical top surfaces being of abrasive material to abrade the bird's claws from different angles.

1,425,525. COUPLING. WALTER JOHN HOLLICK, Manchester, England. Filed May 19, 1919. Serial No. 298,242. 8 Claims. (Cl. 287—1.)

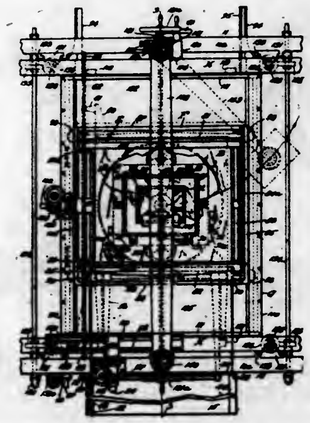


1. A coupling device comprising two relatively movable elements to be coupled, one of the elements having a member with a zig-zag cam groove therein extending transversely of the direction of relative movement and also exit and entrance slots therein leading to spaced sections of the groove, the other of the elements having a member with a cam follower for engagement with the slots and groove whereby upon relative movement of the elements in opposite directions the follower will enter the cam groove by means of one slot to couple the elements and upon continued relative movements of the elements in opposite directions will be released through the other slot, and means for locking the elements against relative movement when the cam follower is in the cam groove intermediate of the slots to thereby prevent uncoupling of the elements.

1,425,526. PHOTOGRAPHIC PRINTING APPARATUS. WILLIAM C. HUEBNER, Buffalo, N. Y., assignor to Huebner-Bielstein Patents Co., Buffalo, N. Y. Filed June 25, 1919. Serial No. 306,572. 20 Claims. (Cl. 95—73.)

1. In a photographic printing apparatus, the combination of a carriage supporting a transparent printing plate

in a horizontal position, a holder for supporting a sensitized plate horizontally above said printing plate, a support in which said holder is adjustable horizontally for placing different portions of the sensitized plate opposite the printing plate, and means for lowering and raising



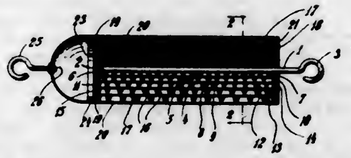
said support to place the sensitized plate into and out of contact with the printing plate, said printing plate carriage being movable horizontally for carrying the printing plate from its operative position beneath the sensitized plate and supporting it in an accessible position at one side of the sensitized plate.

1,425,527. HAIR WAVER. HARRY H. KLEIN, New York, N. Y. Filed June 21, 1921. Serial No. 479,184. 6 Claims. (Cl. 132—43.)



1. An endless piece of wire twisted upon itself to form a hair waver.

1,425,528. TENSION-CONTROLLING DEVICE. WILLIAM LIND, New York, N. Y. Filed June 29, 1921. Serial No. 481,271. 5 Claims. (Cl. 280—33.14.)



1. In combination, a plunger, a coiled spring of certain elasticity wound around said plunger, a shoulder on said plunger engaged by one end of said spring, a hollow tube enclosing said spring and plunger, an inside projection on one end of said tube engaging the other end of said spring, a coiled spring of different elasticity wound around said tube, an outside projection on the other end of said tube engaging one end of said last mentioned spring, a second hollow tube enclosing said last mentioned spring, and an inside projection on one end of said second tube engaging the other end of said second mentioned spring.

1,425,529. WELDING. LEWIS G. MCCLINTOCK, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed June 1, 1921. Serial No. 474,171. 6 Claims. (Cl. 113—112.)



1. The method of welding sheet metal which consists in assembling the sheet ends extending in the same general direction and with the edges to be welded bent over to oppositely face each other, engaging the sheet ends by spacing means to space apart the oppositely facing edges without engagement of said edges, and heating and welding said edges.

1,425,530. PROCESS FOR THE TREATMENT OF LEATHER WITH INDIA RUBBER. ALEXANDER MCLENNAN, Ross, England. Filed Jan. 21, 1922. Serial No. 530,978. 5 Claims. (Cl. 149—6.)

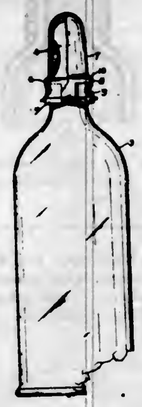
5. In a process for impregnating leather with india rubber, treating the leather for impregnating the leather with rubber; and when the leather is impregnated with the rubber treating the leather with an element for vulcanizing the rubber which has become embedded in the leather.

1,425,531. NUT WARMING AND VENDING MACHINE. CHARLES W. MABEY, Indianapolis, Ind. Filed Sept. 24, 1921. Serial No. 502,952. 3 Claims. (Cl. 211—8.)



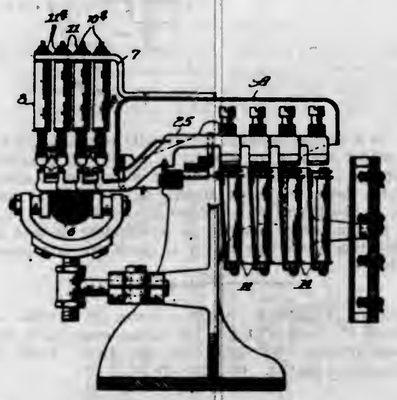
1. In a vending machine, a rocking drum having an opening through which the drum is filled when the opening is at the top of the drum and through which the contents of the drum is discharged when the position of the opening is reversed, means for locking the drum in its filled position, means made effective by the presence in it of a coin for unlocking the drum, and manually operated means comprising a pull-chain wrapped on the drum for rocking the drum to empty it when unlocked.

1,425,532. SANITARY CAP. GEORGE M. MARR, Brooklyn, N. Y. Filed June 14, 1921. Serial No. 477,401. 3 Claims. (Cl. 215—11.)



1. A sanitary cap for bottle nipples having a plurality of projections from the open end thereof adapted to temporarily engage the nipple to secure the cap thereon.

1,425,533. ELECTRIC SELF-PLAYING VIOLIN. BERTIS E. MILLS, Chicago, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 9, 1921. Serial No. 499,475. 4 Claims. (Cl. 84—11.)



1. In an automatically-played stringed instrument in which a string is fingered by fingering-devices and played by a sounder, the combination with the string of a damper-device normally bearing against it in advance of the fingering-devices, and means for withdrawing the damper from engagement with the string for playing of the sounder thereon as an open string.

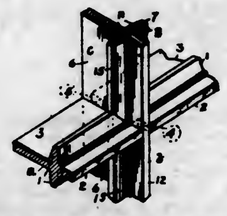
1,425,534. RENEWABLE GRIP HANDLE. JOSEPH MOSHER, Chicago, Ill. Filed Dec. 17, 1920. Serial No. 431,444. 3 Claims. (Cl. 190—58.)

1. A renewable grip handle comprising a metallic strip having its ends bent to form hooks, retaining humps integral with the hooks and provided with a leather



cover, said cover having elongated portions passing around the hooks, and adapted to be fastened in position.

1,425,535. SASH. HARRY R. MOYER, Thornburg, Pa. Filed Mar. 7, 1921. Serial No. 450,345. 8 Claims. (Cl. 189—36.)



1. In a metal sash, a mullion having oppositely-extending webs and continuous lateral glass ledges integral with the webs, the webs having opposite notches in their edges, a second mullion crossing the first mullion and composed of two bars, one bar comprising a web continuous at one edge which is seated in one notch and carrying lateral flanges at the other edge, the said bar having a transverse slot open in the latter edge to receive one web of the first mullion and the said lateral flanges being cut away to form seats for the said ledges the other bar comprising a channel having a central web on the side opposite the flanges of the channel, the flanges being cut away to pass the said glass ledges, the base of the channel being cut away to form seats for the said ledges, the web being seated in the remaining notch in the first mullion, and the said flanges being bent beneath the said ledges.

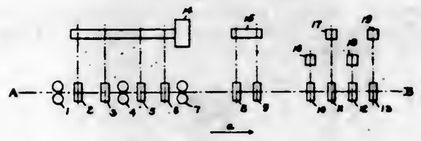
1,425,536. MECHANIC'S TOOL OF THE HANDSAW TYPE. AIMÉ NEBON, New Bedford, Mass. Filed Jan. 17, 1922. Serial No. 530,004. 2 Claims. (Cl. 33—75.)



1. The combination of a blade and a handle thereon, a rotary chambered body alongside of the blade and con-

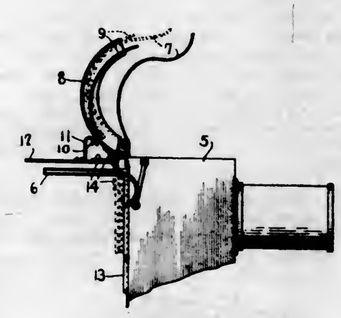
nected therewith, and having an annular inclined wall, a toothed disk in the chamber of the body and fixed to the blade, a movable cap retained in the chamber of the body, a spring tending to force the cap outwardly, and a spring pressed dog carried by the cap and arranged to cooperate with said inclined wall of the body.

1,425,537. CONTINUOUS HOT MILL. HENRY G. O'BRIEN, Warren, Ohio, assignor to The Trumbull Steel Company, Warren, Ohio, a Corporation of Ohio. Filed Sept. 4, 1919. Serial No. 321,660. 1 Claim. (Cl. 80—35.)



A hot mill for rolling metal including a plurality of roughing-roll stands and a plurality of finishing-roll stands, a common motor driving the rolls of the several roughing-roll stands, a plurality of motors corresponding in number with the finishing-roll stands and connected operatively, one to each of said finishing-roll stands.

1,425,538. MOTION-PICTURE MACHINE. PERCY W. PALMER, Edgerton, Wis. Filed Aug. 13, 1918. Serial No. 249,633. 1 Claim. (Cl. 88—17.)



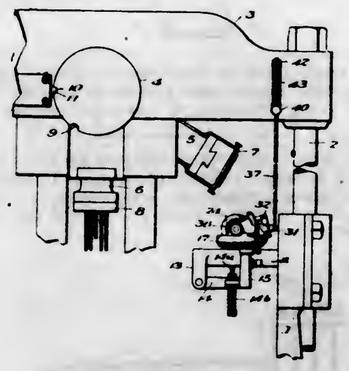
The combination with a motion picture machine; of a film guard thereon, provided with an opening adjacent its inner end, a fire shutter pivoted to said guard at its inner end, resilient means for normally retaining said shutter in its closed position, a trigger fulcrumed within said guard and having its inner end bent at right angles to form a finger, said finger projecting through the opening in said guard, and a hook secured to the inner end of the fire shutter and engaging the finger on said trigger, as and for the purpose described.

1,425,539. HEADED STOPPER. JAKOB A. PAULSEN, Jersey City, N. J. Filed Mar. 18, 1920. Serial No. 366,819. 1 Claim. (Cl. 215—11.)

The combination in a bottle having a neck and a cap adapted to fit on said neck, of a nipple, and a stopper having an aperture therethrough, the top of the stopper projecting from the bottle when in place whereby when the cap is applied to the bottle, the nipple is clamped between the top of the stopper and cap across and closing the aperture in the stopper, said stopper being concave near the top thereof and the nipple being spaced from said concave portion.

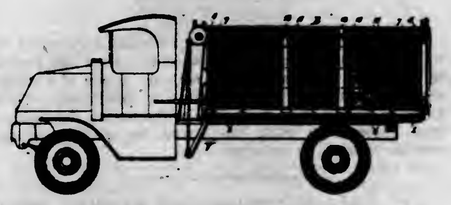


1,425,540. HEEL-NAILING MACHINE. GEORGE M. PETTENGILL, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed June 4, 1918. Serial No. 238,087. 8 Claims. (Cl. 1—35.)



1. In a heeling machine, a vertically reciprocating heel-lift holder adapted to support a heel-lift in a position oblique to the vertical and facing downward, a cement-applying device arranged directly in the path of movement of the lift as it is carried downward in said position by the holder, and means independent of said lift, for insuring a constant supply of cement to said cementing device.

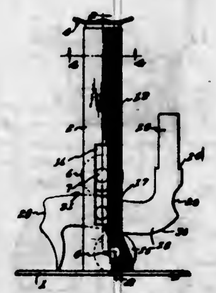
1,425,541. VEHICLE BODY. JACOB H. PRESS and IRVING F. AVERY, Chicago, Ill., assignors to Jacob Press Sons, Chicago, Ill. Filed Oct. 16, 1920. Serial No. 417,337. 2 Claims. (Cl. 296—28.)



1. In a vehicle body, a frame, a box having a bottom resting on and secured to said frame, upwardly extending

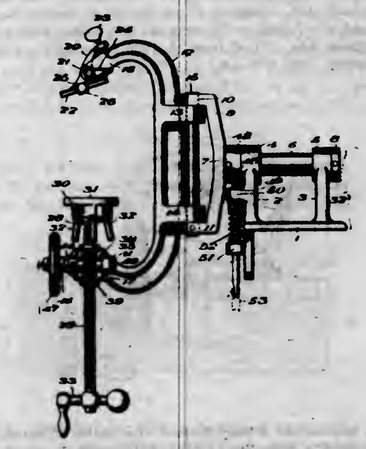
corner stays secured to the bottom adjacent its corners, an endgate at the forward end of the box, the stays at the forward corners having inwardly extending flanges to which the ends of the endgate are secured, and angle members having one side of the angle secured to the inner face of the endgate and having the other side of the angle projecting inwardly of the box substantially parallel to the body of the corner stays to co-operate therewith to support the sidewalls of the box.

1,425,542. VEHICLE JACK. PROSPER J. RAYMOND and GEORGE ADAMS, Detroit, Mich. Filed Apr. 30, 1920. Serial No. 377,758. 5 Claims. (Cl. 254—114.)



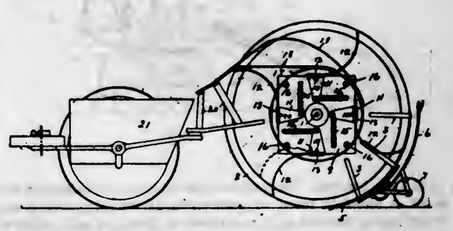
1. In a vehicle jack, a body member provided with a base, a member vertically reciprocable in the said body member, a roller rotatably mounted in the lower end of the said reciprocable member, a roller rotatably mounted in the lower end of the body member, two opposite sides of the body being provided with slots, a lever having an end bent at approximately a right angle, each opposite face therefor forming an ogee curve, and engaging the respective roller, and a pivot pin centrally positioned between the ends of the ogee curved portion and riding in the slots in the said body member.

1,425,543. WOOD-HEEL-CLAMPING DEVICE. FRED A. REARDON, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Nov. 22, 1918. Serial No. 263,705. 6 Claims. (Cl. 12—125.)



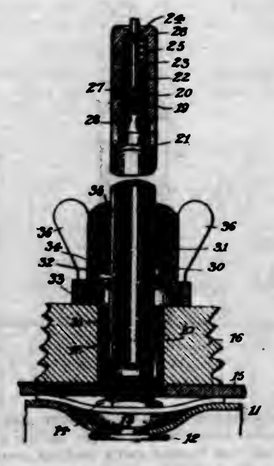
1. In a heel nailing device, a clamp-frame, a supporting frame therefor, a heel-clamp member mounted upon the clamp-frame, a rod provided with a screw-threaded portion and mounted for endwise sliding and rotary movement in the clamp-frame, means for turning said rod, a second heel-clamp member operatively connected to and partaking of the movements of said rod toward and from the first-named clamp-member, a pinion mounted in said clamp-frame and meshing with the screw-threaded portion of said rod, means for turning said pinion to impart endwise movement to said rod, and means for restraining said pinion against turning.

1,425,544. STONE GATHERER. OTIS F. REITER, Baltimore, Md. Filed Oct. 19, 1920. Serial No. 418,049. 3 Claims. (Cl. 55—17.)



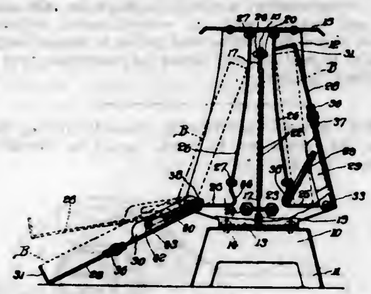
1. In a stone gatherer, a rotatable axle, a wheel fixed to each end of said axle, a series of downwardly and forwardly curved raker teeth operatively supported rearward of the axle, a plate secured near each end of said axle and rotatable therewith, a plurality of bars each having its ends pivoted to said plates, a series of lifting teeth carried by said bars, and a series of conveyer bars upon which the raker teeth discharge disposed in staggered relation to the raker teeth, said conveyer bars being downwardly inclined at the front ends to allow the stones to fall therefrom.

1,425,545. LOCKING DEVICE FOR VALVE STEMS. WILLIAM R. ROYKA, Wilkes-Barre, Pa. Filed July 20, 1921. Serial No. 486,120. 10 Claims. (Cl. 152—12.)



1. In a device for the purpose described, in combination, a wheel felloe, a valve stem extending through the felloe and having an unthreaded portion exposed beyond the felloe, and releasable means cooperating with said unthreaded portion of the valve stem to lock the latter in the felloe.

1,425,546. TOASTER. THOMAS C. RUSSELL, Chicago, Ill. Filed Dec. 1, 1921. Serial No. 519,077. 7 Claims. (Cl. 53—5.)



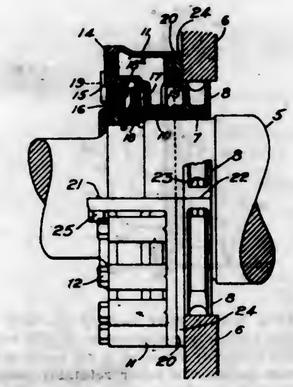
1. In a toaster, the combination of a heat producing element, a shelf in front of said element for supporting material to be toasted, a tray hinged in front of said shelf to support the material and carry it on to the shelf when the tray is swung up, and a discharge member resting on said shelf and connected with said tray to be controlled thereby, said discharge member being at the rear of the shelf behind the lower edge of the material when said material is in toasting position on the shelf, and said member being slid forwardly on said shelf when the tray is swung down to shift the lower end of the material on to the tray so that said material may slide down the shelf and reverse itself.

1,425,547. SASH-CORD COUPLING. JOHN A. RYAN, Rochester, N. Y. Filed Mar. 26, 1921. Serial No. 455,899. 6 Claims. (Cl. 16—256.)



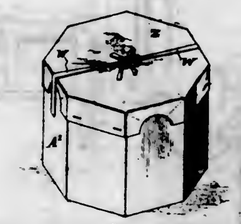
5. The combination of a sash weight and a coupling member therefor comprising a weight having a curved depression on one side thereof and a vertical opening leading through the center of the top of said weight into the depression formed in the side thereof, a sleeve, teeth formed along the seam of said sleeve, an outwardly curved neck depending from said sleeve, a semi-cylindrical flange formed on the end of said neck, said sleeve being adapted to project into the vertical opening in said weight and said neck being adapted to snugly hold said semi-cylindrical flange against the curved wall of the curved depression in said weight, the weight of said sash weight on said coupling member operating to rigidly hold said coupling member in said sash weight.

1,425,548. PACKING. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to The Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Feb. 23, 1917, Serial No. 150,403. Divided and this application filed Feb. 3, 1919. Serial No. 274,676. 5 Claims. (Cl. 286—8.)



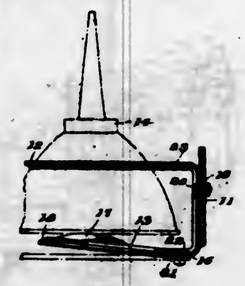
3. A packing gland for sealing the space between a stator and a rotor carrying centrifugal impellers comprising a casing divided into two annular sections, one of which is provided with a series of packing rings, and the other of which is provided with a second series of packing rings, and a casing for enclosing the centrifugal impellers, the said casings being adapted when joined, to form an exhaust channel between the two sets of packing rings.

1,425,549. PAPER-BOARD BOX. GEORGE E. SCRUBY, Birmingham, Ala., assignor of one-fourth to Robert R. Taylor and one-fourth to Thomas M. McClellan, both of Birmingham, Ala. Filed June 24, 1921. Serial No. 480,050. 5 Claims. (Cl. 206—8.)



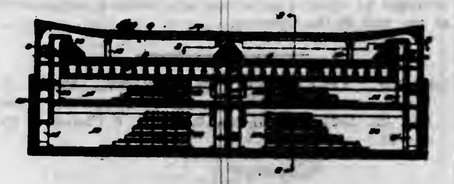
1. A box having a body formed of a series of panels and its bottom of a plurality of inner reinforcing members and outer members of larger area which are overlapped by the inner members, two of the body panels being formed with overlapping locking members bridging the bottom.

1,425,550. RECEPTACLE HOLDER. WALTER J. SPINO, White Plains, N. Y. Filed May 5, 1921, Serial No. 467,175. Renewed June 20, 1922. Serial No. 569,716. 4 Claims. (Cl. 248—20.)



1. A can holder comprising an end wall, a rigid angular holding plate having a curved recess adapted to embrace a can body, and a substantially parallel resilient pressure plate disposed within the area of and centrally beneath the recess of the holding plate.

1,425,551. FURNACE FOR PRODUCING SILICATE OF SODA AND THE LIKE. WILLIAM H. STANTON, Ridley Park, Pa. Filed Aug. 9, 1920. Serial No. 402,284. 4 Claims. (Cl. 158—7.5.)



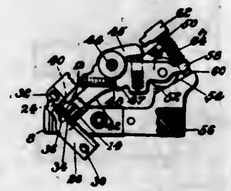
1. In a furnace the combination with a hearth disposed longitudinally thereof and a roof above said hearth, of a pair of gas regenerator chambers beneath said hearth extending longitudinally of said furnace, an air regenerator chamber beneath each of said regenerator chambers also extending longitudinally of the furnace, a flue leading from the outer extremity of each said regenerator chambers opening into the space between the superimposed hearth and the roof at a point adjacent an outer extremity of the hearth and operative to conduct gas from said chamber to said space, and separate passages communicating respectively with the inner end of each of said regenerator chambers operative to respectively conduct air or gas thereto and to conduct the spent gases of combustion therefrom.

1,425,552. LATCH FOR AUTOMOBILE DOORS. BAYARD E. TAYLOR, Oak Park, Ill. Filed June 21, 1920. Serial No. 390,243. 4 Claims. (Cl. 292—166.)
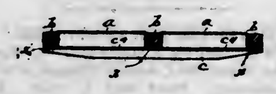


4. The combination with a lock and the strike plate therefor, of a projection formed on said strike plate having an inclined striking surface, a latch bolt adapted to be projected from said lock, and a wedge member slidable with respect to said latch bolt and having a straight striking surface parallel to said latch bolt adapted to be moved into engagement with the inclined surface of said projection.

1,425,553. TACK-HANDLING MECHANISM. FREDERICK W. TAYLOR, Salisbury, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,522. 14 Claims. (Cl. 1—6.)



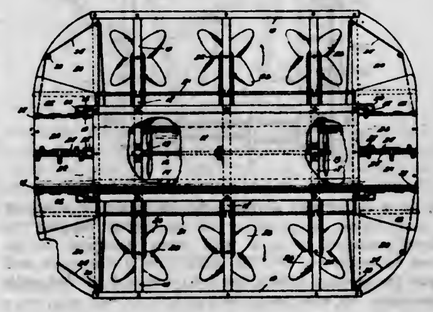
14. In a tack handling mechanism, the combination of a raceway, means engaging the head portion of the lowermost tack in the raceway to initiate separation from the tacks in the raceway, and means arranged to enter behind the tack being separated and to have a compound movement including movement in a direction transverse to the tack and in a direction lengthwise of the tack.

1,425,554. RUNNING BOARD. HORACE T. THOMAS, Lansing, Mich. Filed Sept. 24, 1917. Serial No. 192,836. 2 Claims. (Cl. 280—163.)



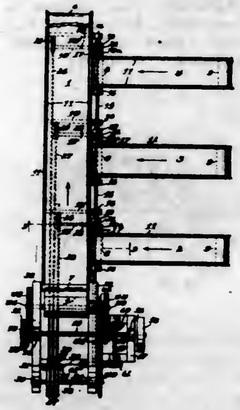
2. A running board of sheet metal having a plurality of longitudinal depressions therein, filler strips of non-resonant material and metal in said depressions and drainage openings at the bottom of said depressions.

1,425,555. AIRSHIP. CHARLES D. THOMPSON, Kirksville, Mo. Filed Apr. 25, 1921. Serial No. 464,097. 3 Claims. (Cl. 244—29.)



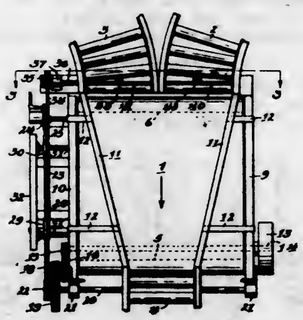
1. The combination with an airship, of directing members projecting from the opposed ends thereof, said members being substantially arch-shaped and including relatively movable sections, said directing members being susceptible of vertical and horizontal movements, and means for simultaneously adjusting said members as and for the purpose specified.

1,425,556. CONTROLLER FOR INTERSECTING CONVEYERS. LLOYD G. TINGWALL and ARTHUR J. JOHNSON, St. Paul, Minn., assignors to Standard Conveyor Company, a Corporation of Minnesota. Filed May 5, 1921. Serial No. 467,103. 6 Claims. (Cl. 198—79.)



1. In a device of the class described, a main conveyer, a plurality of auxiliary conveyers arranged to deliver packages to said main conveyer, a shaft to drive said auxiliary conveyers, clutches arranged on said shaft and means for operating said clutches to periodically connect and disconnect said auxiliary conveyers from said shaft.

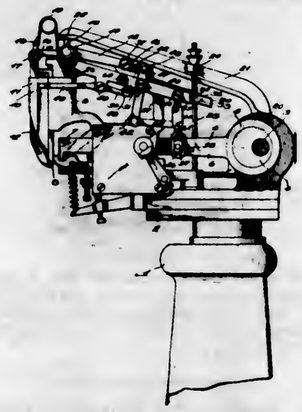
1,425,557. CONVERGER FOR CONVEYERS. LLOYD G. TINGWALL and ARTHUR J. JOHNSON, St. Paul, Minn., assignors to Standard Conveyor Company, a Corporation of Minnesota. Filed May 5, 1921. Serial No. 467,104. 9 Claims. (Cl. 198—26.)



1. In a converger, a frame, an endless belt mounted in said frame, a plurality of conveyers adapted to deliver packages to said belt, stops arranged to be moved consecutively into the path of said conveyers and means for moving said stops into and out of the path of packages on said conveyers.

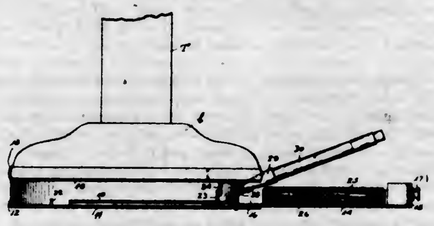
1,425,558. SHOE MACHINE. FÉLIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Dec. 7, 1917. Serial No. 205,918. 25 Claims. (Cl. 12—18.)

2. In a shoe machine, in combination an adjustable edge gauge and means for progressively adjusting the same, said means comprising a pattern cam-member movable in a rectilinear path and means constructed and



arranged to advance or retract said pattern cam-member at the will of the operator.

1,425,559. TELEPHONE ATTACHMENT. FRANK E. WAMPACH and ARVID E. KARLSEBO, Chicago, Ill. Filed Dec. 22, 1921. Serial No. 524,062. 6 Claims. (Cl. 45—51.)



5. A detachable sub-base for supporting a desk telephone, a drawer for said sub-base, means for supporting a memorandum pad on said drawer, a pencil holder supported on said drawer, means for raising said pencil holder when the drawer is opened, and means for forcing said holder downwardly when the drawer is closed to thereby move the pencil into the drawer so that the drawer may be closed.

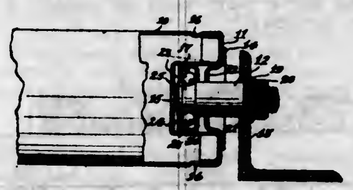
1,425,560. BROOM AND BRUSH. HARRY B. WATERS, Denver, Colo. Filed Nov. 15, 1920. Serial No. 424,166. 1 Claim. (Cl. 15—171.)

A brush or broom comprising a rigid socket-head, a removable brush member having a part entering the socket of the head and composed of a number of distinct tufts bound firmly together as a unit, means for connecting the brush member with the head to prevent ready removal and a handle rigidly connected with said head,



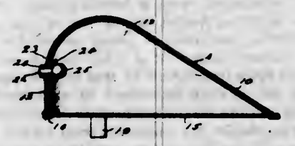
interiorly projecting ribs being formed on the inner face of said head and engaging in the grooves between said tufts.

1,425,561. CONVEYER ROLLER. PETER C. WEGO, St. Paul, Minn., assignor to Standard Conveyor Company, a Corporation of Minnesota. Filed Aug. 14, 1920. Serial No. 403,458. 4 Claims. (Cl. 64—17.)



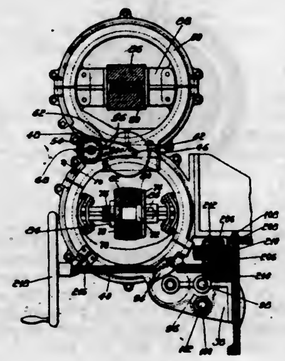
1. In a conveyer roller a body, hubs in the ends of said body, pintles adapted to be rigidly secured at their outer ends in the frame of a conveyer and extending axially into said hubs, bearings for said body on the inner ends of said pintles, caps closing the outer ends of said hubs and annular grease cups between said bearings and caps.

1,425,562. HEADLIGHT. JAMES SAMUEL WHEELER, Mesa, Ariz. Filed Mar. 29, 1921. Serial No. 456,686. 4 Claims. (Cl. 240—41.)



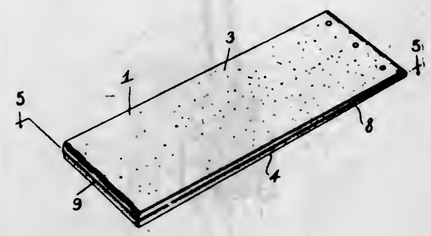
2. In a headlight of the class described, comprising in combination, an inverted scoop-shaped casing, a transparent closure therefor, an electric lamp socket extending through a vertical recess in the rear wall of said casing, a stationary support for said lamp socket, and mounting means for said casing and said stationary support whereby the casing may be adjustably tilted forwardly or rearwardly while said lamp and support remain stationary.

1,425,563. PROPELLER LATHE. LELAND B. WHIPPLE, Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Aug. 4, 1919. Serial No. 315,083. 3 Claims. (Cl. 142—54.)



1. In a lathe for turning propellers, a gear for rotating the propeller blank, and a spindle for chucking the blank, comprising two sections, one having a flange and the other a nut, there being a screw joint between the sections, the flange having lugs arranged to fit the bolt holes in a prepared propeller hub and the nut being arranged to clamp the hub against the flange, and means for detachably bolting the spindle to the gear.

1,425,564. REENFORCED CEMENT ROOFING. JOHN ELKANAH WHITESIDE, Alexander, La. Filed Jan. 26, 1921. Serial No. 440,000. 1 Claim. (Cl. 108—8.)



A roofing material comprising a base of plastic material reenforced by a strip of reticulated material disposed between the top and bottom faces of the base and extending the entire length and width thereof with its side and end edges exposed and a waterproof coating enveloping the plastic base.

1,425,565. METHOD OF PREPARING AQUEOUS SOLUTIONS OF ANTIMONY TRICHLORIDE. CLYDE E. WILLIAMS, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, New York, N. Y., a Corporation of New York. Filed Aug. 10, 1920. Serial No. 402,650. 3 Claims. (Cl. 23—13.)

1. Method of preparing aqueous solutions of antimony trichloride, comprising reacting with chlorin upon antimony metal in presence of hydrochloric acid at sufficient concentration to prevent separation of oxychlorid.

1,425,566. DIAPHRAGM-FRAME MOUNTING FOR REPRODUCERS. DAVID H. WILSON, Philadelphia, Pa. Filed Sept. 15, 1921. Serial No. 500,883. 2 Claims. (Cl. 274—35.)



1. In a device of the kind described, a reproducer casing, a diaphragm frame positioned within said casing in spaced relation to the walls thereof, balls spaced evenly around the periphery of the frame between said frame and the casing, and means to exert pressure inwardly on one of said balls and thereby increase the pressure between the remaining balls and the frame.

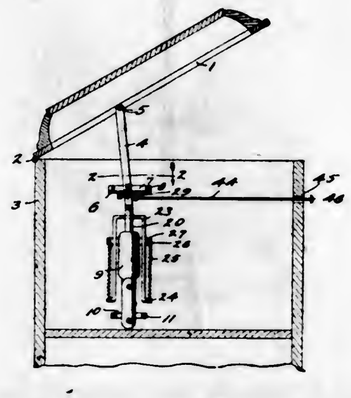
1,425,567. CONNECTING ROD FOR ENGINES. SUMNER WILTSE, Dayton, Ohio. Filed Dec. 24, 1919. Serial No. 347,228. 5 Claims. (Cl. 74—17.)



1. In a device of the type described, the combination with a piston having a concave bearing surface in its upper portion, of a connecting rod, a shield-shaped head on the latter, a retaining nut threaded into said piston, a dome-shaped top on said retaining nut between which, and the bearing surface above it, the shield-shaped head of the connecting rod has a free oscillatory movement, and a transverse element secured to the bottom portion of said nut, adapted to engage the interior surface of the piston, to lock the retaining nut therein.

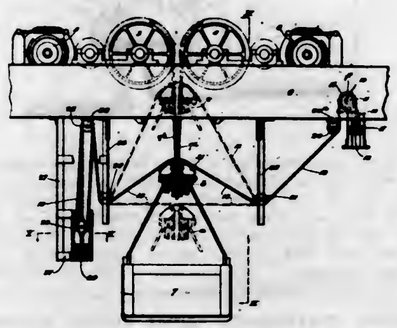
1,425,568. DROP-COVER CHECK. HAROLD A. ARNOLD, Lenora, Kans. Filed Apr. 12, 1922. Serial No. 551,855. 4 Claims. (Cl. 217—60.)

1. Means for checking the closing movement of a cabinet cover comprising a cylinder including a guide portion, a main chamber, an auxiliary chamber, a partition between the two chambers provided with a plurality of openings, a plunger in the cylinder movable in the main chamber, a supporting member connecting the plunger



with the cover, and a catch adjacent the supporting member for engagement therewith for holding the cover in a raised position.

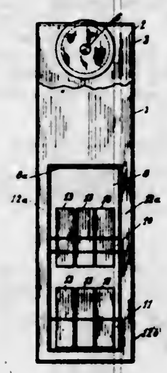
1,425,569. CONTROL MECHANISM FOR HOISTING APPARATUS. SAMUEL ARNOLD, 3d, Ben Avon, Pa. Filed Apr. 6, 1921. Serial No. 458,923. 5 Claims. (Cl. 212—132.)



1. The combination with a hoisting crane trolley having a load carrying device, means for raising and lowering said device, and electric power means for operating said first named means, of a limit switch for breaking the forward operating circuit to said electric power means to control the upward movement of said load carrying device, and flexible means adapted to be tripped by said load carrying device for operating said switch, said last named means being adapted to permit an appreciable upward overrun of said load carry device after said means has been tripped.

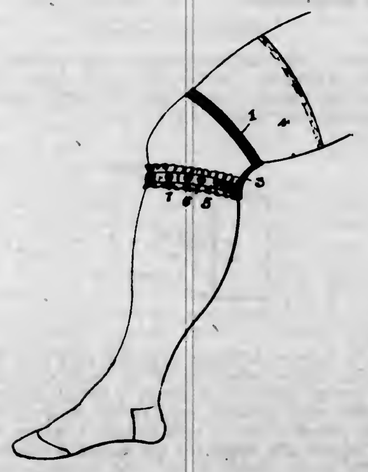
1,425,570. SASH WEIGHT. BENJAMIN F. AUFDERHEIDE, Sr., Davenport, Iowa. Filed Apr. 14, 1922. Serial No. 552,479. 4 Claims. (Cl. 16—218.)

1. A sash weight of rectangular dimensions, the surfaces of its edges beveled to center, one of its ends bifurcated, the said bifurcated end supporting a pulley revolubly installed within such bifurcation by axle means within holes provided in the jaws of said bifurcations; a transverse rectangular hole suitably disposed between the inward extremity of such bifurcation and the opposite end of such weight, said rectangular hole having its jamb, lintel and sill beveled to center, said rectangular hole having multiple saddle bar members disposed



across it, one of which members protrudes upwardly from said sill, the other of said members being connectedly supported by the said jambs, said saddle bars having their edges beveled to center and perpendicular sides, a petty weight member having a bifurcation in one of its ends capable of being mounted upon said saddle bars within said transverse opening, all further purposes specified.

1,425,571. GARTER. JEANIE BEAR, Pittsburgh, Pa. Filed Nov. 30, 1921. Serial No. 518,828. 1 Claim. (Cl. 241—5.)



A garter comprising two elastic members, each adapted to encircle the leg, one above the knee and the other below the knee, a flexible member connecting said upper and lower members, the lower member being disposed at the lower end of said flexible connecting member and having a stud, and the upper member at the upper end of said flexible connecting member, means to take up the slack in the lower member, including a supplemental band attached to and extending over said lower member, and having eyelets adapted to engage the stud on said lower member.

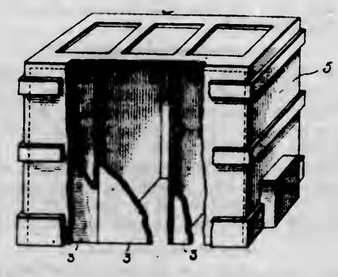
1,425,572. ZIRCONIUM ALLOY AND PROCESS OF MAKING SAME. FREDERICK M. BECKET, Niagara Falls, N. Y., assignor to Electro Metallurgical Company, Niagara Falls, N. Y., a Corporation of West Virginia. Filed Oct. 1, 1920. Serial No. 414,086. 6 Claims. (Cl. 204—63.)

5. Process of making a low-carbon ferro-alloy consisting essentially of iron, silicon and zirconium, comprising smelting in the electric furnace a charge comprising silica, a zirconium ore, a carbonaceous reducing agent, and a source of iron, the charge proportioned to yield an alloy containing silicon in at least as high proportion as the zirconium, whereby the formation of zirconium carbid in interfering quantities is prevented.

1,425,573. ELECTRIC BATTERY. RAYMOND C. BENNER and HARRY F. FRENCH, Fremont, Ohio, assignors to National Carbon Company, Inc., a Corporation of New York. Filed Jan. 16, 1919. Serial No. 271,488. 8 Claims. (Cl. 204—38.)

6. In electric batteries, a negative electrode of zinc having mercury and lead material associated with the active surface.

1,425,574. BATTERY JAR AND PROCESS OF MAKING SAME. EDWIN S. BOYER, Plainfield, N. J., assignor to American Hard Rubber Co., New York, N. Y., a Corporation of New York. Filed July 14, 1921. Serial No. 484,800. 3 Claims. (Cl. 206—2.)

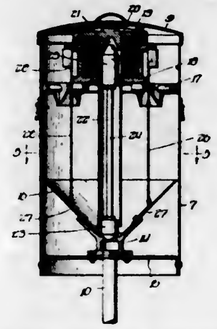


1. The process of holding a plurality of individual hard rubber battery jars together in a hard rubber container which comprises mounting the completed individual battery jars adjacent each other upon a plurality of battery cores one for each battery jar, enclosing the assembled battery jars by a hard rubber container made to slip over the battery jars immediately after the same has been vulcanized while still hot and before it has an opportunity to cool, permitting the container to shrink in cooling to firmly bind the individual battery jars and container together.

1,425,575. TRACK SANDER. CARL O. BURTON, Duluth, Minn. Filed Feb. 18, 1922. Serial No. 536,380. 3 Claims. (Cl. 291—23.)

1. A rail sander comprising a sand reservoir, a discharge opening therein, a bracket located in said reservoir

supporting a solenoid and a tubular guide extending in alignment with said opening, and a closure for said open-



ing operating in said guide and controlled by said solenoid.

1,425,576. CATALYST AND METHOD OF PREPARING THE SAME. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed May 8, 1920. Serial No. 380,002. 18 Claims. (Cl. 23—28.)

1. As a new article of manufacture, a catalytically active body comprising the product of thermal decomposition under oxidizing conditions of the cyanamids of a plurality of metals of the type of silver and copper.

1,425,577. PROCESS OF PREPARING PURIFIED GAS MIXTURES. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed May 8, 1920. Serial No. 380,003. 7 Claims. (Cl. 23—21.)

6. Process of preparing purified gas mixtures consisting essentially of hydrogen and nitrogen, comprising passing a gas mixture containing hydrogen, nitrogen, and carbon dioxid in contact with ammonia free from contaminating impurities.

1,425,578. PROCESS OF PREPARING HYDROGEN. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed May 14, 1920. Serial No. 381,506. 5 Claims. (Cl. 48—198.)

4. Process of preparing substantially pure hydrogen, comprising reacting with superheated steam upon elemental sulfur at temperatures of at least 500° C., and removing sulfur dioxid from the gaseous reaction product.

1,425,579. PROCESS OF GENERATING HYDROGEN AND HYDROGEN-NITROGEN MIXTURES. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed May 25, 1920. Serial No. 384,170. 5 Claims. (Cl. 23—10.)

2. Process of preparing mixtures containing hydrogen and nitrogen, comprising passing a mixture containing a hydrocarbon vapor, steam and air into contact with iron-chromium surfaces at a high temperature.

1,425,580. CELLULOSE DERIVATIVE AND PROCESS OF PREPARING SAME. GUSTAVUS J. ESSELEN, Jr., Swampscott, and HARRY S. MORK, Brookline, Mass., assignors to Arthur D. Little, Incorporated, Cambridge, Mass., a Corporation of Massachusetts. Filed Apr. 10, 1920. Serial No. 372,069. 19 Claims. (Cl. 260—101.)

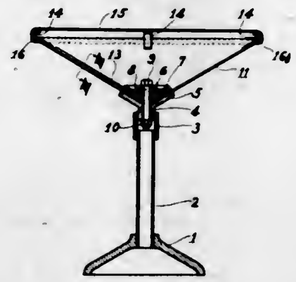
1. In the process of preparing cellulose estera the step which comprises subjecting cellulose to a preliminary impregnating bath containing a solution of butyric acid and a catalyst.

17. As a new product, a cellulose butyrate soluble at normal temperatures in mixtures of bensol and alcohol.

1,425,581. PROCESS OF PREPARING CELLULOSE BUTYRATE. GUSTAVUS J. ESSELEN, Jr., Swampscott, and HARRY S. MORK, South Boston, Mass., assignors to Arthur D. Little, Incorporated, Cambridge, Mass., a Corporation of Massachusetts. Filed July 26, 1920. Serial No. 398,997. 7 Claims. (Cl. 260—101.)

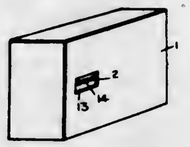
1. The process of preparing cellulose butyrate which comprises subjecting cellulose to a preliminary impregnating bath containing an acid catalyst, a carrier therefor comprising acetic acid, and water, and butyrating the impregnated cellulose.

1,425,582. METALLIC TABLE. SANDOR FRIOLES, Pittsburgh, Pa. Filed May 4, 1921. Serial No. 466,679. 4 Claims. (Cl. 45—117.)



1. A metal table comprising a sheet metal top having a depending annular flange, a radially split annular sheet metal supporting member rendering the same expansible and contractible to vary its size expanded to engage its peripheral edge with the inner surface of said depending flange, and a removable support carrying the expansible sheet metal member.

1,425,583. STREET INDICATOR FOR STREET-RAILWAY SYSTEMS. ALFRED MALACHI GALLERY, Toronto, Ontario, Canada. Filed Mar. 23, 1922. Serial No. 546,007. 14 Claims. (Cl. 40—53.)



1. In a street indicator, a carrier on which a series of street names comprising a car route are indicated, two electric circuits each having a switch opening each provided with normally open switch contacts, a main motor located in one of such circuits, a driving connection between the motor and the carrier, a supplemental starting motor located in the other of such circuits, a push button for closing the normally open switch of the supplemental motor circuit, and means operated by the supplemental circuit for closing the circuit of the main motor.

1,425,584. TEAT CUP FOR MILKING MACHINES. FREDERICK A. GESELER, La Grange, Ill., assignor to Electric Milker Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 2, 1921. Serial No. 457,957. 6 Claims. (Cl. 31—102.)



1. A teat cup comprising a rigid outer shell, a flexible lining engaging the outer rim of the shell, a flexible milk tube of lesser diameter than the lining and integrally formed therewith and extending from the inner end thereof through the inner end of the shell, and means exterior of the inner milk passage for adjustably interlocking the inner end of the lining with the shell, substantially as described.

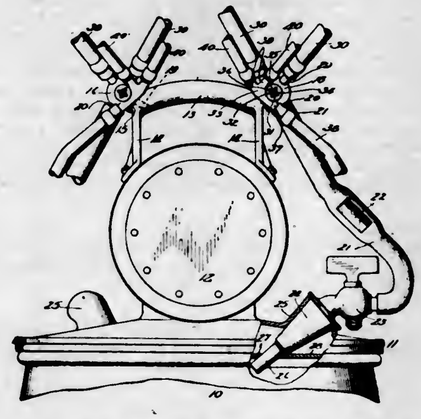
3. A teat cup comprising a rigid outer shell, a lining provided with an enlarged head adapted to engage the outer rim of the shell, a milk line tube leading from the lining, and means for adjustably securing the inner end of the lining to the shell, said means consisting of interlocking grooves and ridges formed in the base of the lining and shell respectively, substantially as described.

4. A teat cup comprising a rigid outer shell, a lining provided with an enlarged head adapted to engage the outer rim of the shell, a milk line tube leading from and integrally formed with the lining, and means for adjustably securing the inner end of the lining to the shell, said means consisting of interlocking grooves and ridges formed in the base of the lining and shell respectively, substantially as described.

5. In a teat cup, the combination of a metallic shell provided with a base plate having an aperture therein, said aperture being provided with a series of grooves, a lining provided with an enlarged head undercut to overhang the outer end of the shell and engage therewith, the base portion of the lining being reduced in diameter and merging into a milk line tube, and a series of beads or ridges contiguous to the base of the lining and adapted to adjustably engage with the grooves in the base plate, substantially as described.

6. In a teat cup, the combination of a metallic shell provided with a base plate having an aperture therein, said aperture being provided with a series of grooves, a lining provided with an enlarged head undercut to overhang the outer end of the shell and engage therewith, the base portion of the lining being reduced in diameter and merging into a milk line tube, and a series of beads or ridges contiguous to the base of the lining and adapted to adjustably engage with the grooves in the base plate, the lining with its head and milk line tube being integrally formed of rubber, substantially as described.

1,425,585. MILK AND AIR LINE CONNECTION FOR MILKING MACHINES. FREDERICK A. GESELER, La Grange, Ill., assignor to Electric Milker Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 2, 1921. Serial No. 457,958. 7 Claims. (Cl. 31—99.)



1. In a milking machine, the combination with a milk receptacle, a header block removably supported upon the receptacle, a milk line connection between the receptacle and the header block, the same being removably connected with the receptacle, branch milk line pipes connected with the header block and communicating therethrough with the main milk line pipe, air line pipes associated with the respective milk line branch pipes, and means for supporting the air line pipes upon the header block, substantially as described.

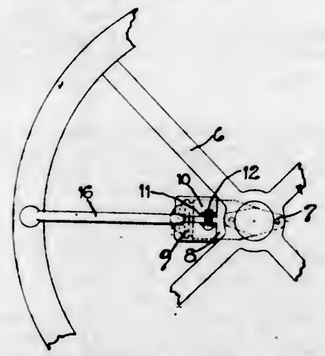
3. In a milking machine, the combination with a milk receptacle, a header block removably supported upon the receptacle, a milk line connection between the receptacle and the header block, the same being removably connected with the receptacle, branch milk line pipes connected with the header block and communicating therethrough with the main milk line pipe, a pair of air line fitttings each removably supported upon the header block, a main air line pipe leading to each fitting, and a pair of branch air line pipes leading from each fitting, substantially as described.

4. In a milking machine, the combination with a milk receptacle, a header block removably supported upon the receptacle, a milk line connection between the receptacle and the header block, the same being removably connected with the receptacle, branch milk line pipes connected with the header block and communicating therethrough with the main milk line pipe, a pair of air line fittings each removably supported upon the header block, a main air line pipe leading to each fitting, and a pair of branch air line pipes leading from each fitting, each air line pipe being connected with the associated branch line milk pipes, substantially as described.

6. In a milking machine, the combination with a milk receptacle having thereon a removable cover, operating mechanism carried by the cover, a handle upstanding from the operating mechanism, a header block removably connected with the handle, a main milk line connection leading to the header block and removably entered into the cover, four branch milk line connections leading to the header block, a pair of oppositely disposed studs outstanding from the header block, a milk line fitting mounted upon each of the studs, the connection between each stud and its associated fitting being such that the latter may be removed from the stud when turned to a given position and retained thereon in other positions, a main air line pipe leading to each of the fittings, and a pair of branch air pipes leading from each of the fittings, substantially as described.

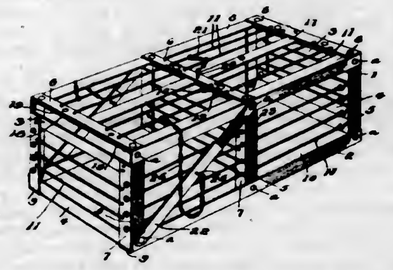
7. In a milking machine, the combination with a milk receptacle having thereon a removable cover, operating mechanism carried by the cover, a handle upstanding from the operating mechanism, a header block removably connected with the handle, a main milk line connection leading to the header block and removably entered into the cover, four branch milk line connections leading to the header block, a pair of oppositely disposed studs outstanding from the header block, a milk line fitting mounted upon each of the studs, the connection between each stud and its associated fitting being such that the latter may be removed from the stud when turned to a given position and retained thereon in other positions, a main air line pipe leading to each of the fittings, and a pair of branch air pipes leading from each of the fittings, the associated branch air line pipes and branch milk line pipes being connected together, substantially as described.

1,425,586. SIGNALING DEVICE. CHARLES F. GILBERT, St. Louis, Mo. Filed Apr. 21, 1921. Serial No. 463,334. 6 Claims. (Cl. 74—39.)



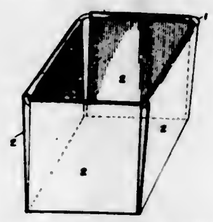
1. A clamping member adapted to be positioned on a push-button switch, said clamping member having means for holding an enlarged portion on the load end of a lever member, an opening in the clamping member whereby the load end of a lever may be inserted, and means on the clamping member for restraining the outward movement of the load end of a lever which means serve as a fulcrum for a lever.

1,425,587. COLLAPSIBLE CRATE. HARRY D. HAMMOND, JOHN W. ACHELPOHL, and ABNER LESLIE, Argonia, Kans. Filed Aug. 16, 1921. Serial No. 492,710. 5 Claims. (Cl. 220—6.)



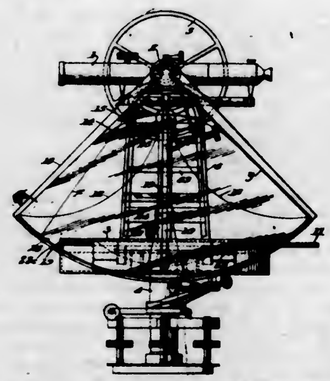
3. A crate provided with a bottom and a top supported to swing thereon whereby the crate may be expanded or contracted, an apertured sheath pivoted to the bottom of said crate, a bar pivoted to the top of the crate and extending into said sheath, said bar being provided with two spaced apertures, and means adapted to extend through the aperture in said sheath and one of the apertures in said bar, to lock said crate in expanded position, or to extend through the aperture in said sheath and through the other aperture in said bar to lock the crate in its contracted position, substantially as described.

1,425,588. TRANSPLANTING DEVICE. HANS E. HANSON, Innisfree, Alberta, Canada. Filed July 6, 1921. Serial No. 482,753. 3 Claims. (Cl. 47—34.)



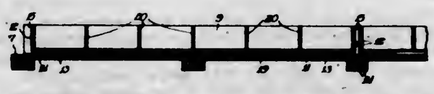
1. In a transplanting device, the combination with a rectangular hoop, of independent depending flaps hinged to each side of the hoop.

1,425,589. SURVEYING INSTRUMENT. PAUL O. HARDING, Carlton, Oreg. Filed Dec. 14, 1920. Serial No. 430,778. 27 Claims. (Cl. 33—46.)



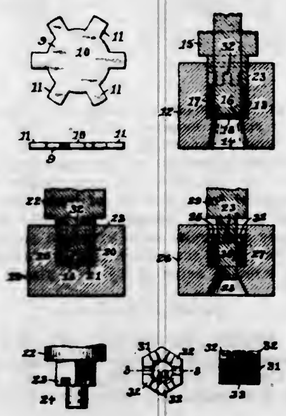
1. In a surveying instrument including means for measuring angles, an adjustable scale indicating distances, means for setting the scale for any desired distance and means operatively connected to the first named means for indicating upon the scale any distance which is the function of an angle measured and the distance for which the scale is set.

1,425,590. APPARATUS FOR MAKING CONCRETE BRICKS. ARTHUR G. HATCH, Duluth, Minn. Filed July 7, 1921. Serial No. 482,999. 2 Claims. (Cl. 25—121.)



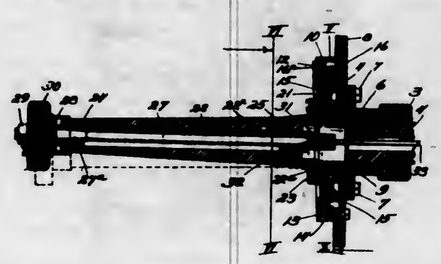
2. Apparatus for making concrete brick or the like, comprising a molding deck, spaced parallel septums extending vertically from the deck, said septums being formed of metal, removable pallets fitted between the septums, the bodies of the pallets being formed of wood and being faced with metal having upwardly extending portions adapted to form the end faces of brick, said pallets being provided with handling clips whereby they may be removed from the molding deck.

1,425,591. CASTELLATED NUT. FERNANDO OSCAR JAQUES, Jr., Providence, R. I., assignor of one-half to Harold Caldwell Peckham, Cranston, R. I. Filed May 12, 1919. Serial No. 296,560. 1 Claim. (Cl. 85—34.)



A nut blank having castellations and formed of sheet metal compressed and having a central hole and a web extending across the central hole.

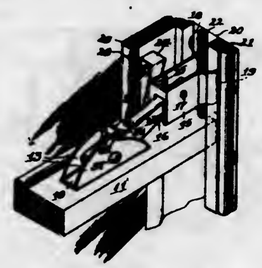
1,425,592. CYLINDER-GRINDING ATTACHMENT FOR LATHES. WILLIAM A. JENNINGS, Raytown, Mo. Filed May 31, 1921. Serial No. 474,085. 10 Claims. (Cl. 51—245.)



1. The combination of a rotatable plate, a wheel rotatable with said plate and having its axis permanently fixed at an angle to the axis of said plate, a shaft movable with and bearing a journaled relation to said wheel and disposed with its axis at an angle to the axis of the wheel, a grinding wheel on said shaft, and a flexible shaft coupled to revolve said first-named shaft around its own axis.

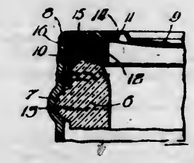
1,425,593. WINDOW CATCH. WILLIAM H. F. JESKA, St. Paul, Minn. Filed Aug. 18, 1921. Serial No. 493,208. 4 Claims. (Cl. 292—3.)

1. In a catch for a window having vertically slidable sashes and guide strips for said sashes, a plate adapted to be secured to the upper surface of the lower sash, an arm tiltably supported at one end on said plate, a head mounted on the free end of said arm whereby said arm is held in inclined position, abutments formed on



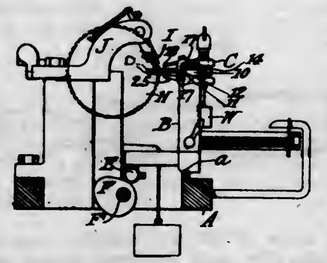
said head to severally engage the window frame and outer edge of a guide strip and means mounted on said head for engaging the upper sash.

1,425,594. JAR CLOSURE. CHARLES R. KERRAN, Chicago, Ill. Filed Oct. 27, 1917. Serial No. 198,808. 1 Claim. (Cl. 215—38.)



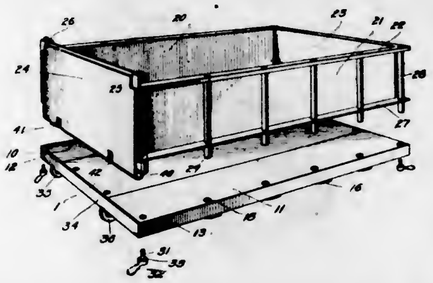
A closure for a jar, comprising in combination a disk arranged to cover the jar mouth and provided with a depending flange adapted to lie adjacent the jar neck, a gasket adapted for interposition between the disk and jar mouth, there being a slit formed in the flange adjacent the under face of the disk, whereby a wedging implement may be inserted to open up a passage between the disk and gasket, and means co-operating with the jar neck for clamping the disk and gasket operatively upon the jar mouth, substantially as described.

1,425,595. MACHINE FOR MAKING COMBS. GEORGE KOHLMEYER and CLAUDE B. WING, College Point, and HERMAN SCHELHAMMER, Whitestone Landing, N. Y., assignors to American Hard Rubber Co., New York, N. Y., a Corporation of New York. Filed Apr. 16, 1921. Serial No. 462,060. 12 Claims. (Cl. 144—26.)



1. A comb clamp comprising a frame, a pair of jaws, a clamp plate positioned between and spaced from the jaws, and a screw carried by one of said jaws and adapted to engage the other of said jaws.

1,425,596. CONVERTIBLE VEHICLE BODY. ANDREW A. KRAMER, Kansas City, Mo. Filed Feb. 5, 1921. Serial No. 442,698. 5 Claims. (Cl. 296—28.)



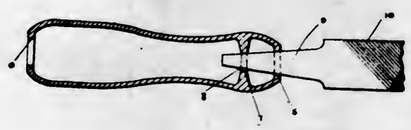
1. In a vehicle, a platform comprising a center plate having depending flanges, side plates connected to the center plate, each having an inner depending flange with a laterally projecting flange on the edge thereof, the depending flange of each side plate and a depending flange of the center plate lying one against the other, depending flanges on the side plates having inturned edges, tubular socket members interposed between the inturned edges of the depending flanges on the side plates and the lower faces of the side plates, said tubular sockets having openings aligning with openings in the side plates whereby stake pockets are formed, and means for fastening the tubular socket members to the side plates.

1,425,597. PICTURE-MAKING APPARATUS. LOUIS LA BORIE, Rochester, N. Y. Filed Feb. 3, 1921. Serial No. 442,264. 8 Claims. (Cl. 35—12.)



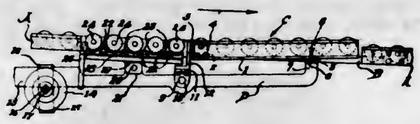
1. In a picture making apparatus, the combination with a support, of a movable guide sheet and a movable tablet adapted to support a picture receiving sheet beneath the guide sheet, the latter and the tablet being maintained in proper relationship by the support.

1,425,598. TOOL HANDLE. WILLIAM LAUBER, Milwaukee, Wis., assignor to The Lauber Handle Manufacturing Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 31, 1921. Serial No. 441,350. 3 Claims. (Cl. 279—102.)



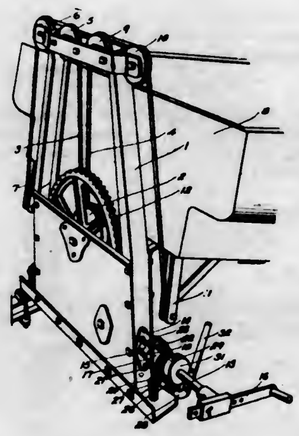
1. A device of the class described, consisting of a hollow one piece metal tool handle having an opening in one end thereof through which the rectangular in cross section tapered end of a tool is insertable, and a partition within the handle spaced from the end having said opening, said partition having a smaller opening in register with said first mentioned opening, whereby the tool end may be driven into said openings to have the corner edges of the tapered end have a snug wedging fit with the partition and the end wall of the handle.

1,425,599. GRAVITY CONVEYER. CHARLES H. LISTER, North St. Paul, Minn., assignor to Standard Conveyor Company, a Corporation of Minnesota. Filed Mar. 4, 1920. Serial No. 363,172. 7 Claims. (Cl. 193—35.)



7. In a gravity conveyer, a stationary frame having a plurality of rollers mounted therein, a hinged section of rollers tiltably supported at one end on said frame, a lever tiltably supported on the frame and adapted to be actuated by the tilting of said hinged section of rollers, a support for a plurality of brake shoes pivotally mounted on said lever beneath the rollers in said stationary frame and brake shoes arranged on said support to engage certain of the rollers in said stationary frame when said lever is actuated by said hinged section of rollers.

1,425,600. BRAKE FOR HOISTS. WINFIELD S. LIVENGOOD, Kansas City, Mo., assignor to Andrew A. Kramer, Kansas City, Mo. Filed Dec. 13, 1920. Serial No. 430,565. 3 Claims. (Cl. 188—82.)



1. The combination with a hoisting frame, a power shaft and its bearing having a projecting tubular portion, of a bracket plate sleeved on the shaft and provided with a tubular portion telescoped with the tubular portion of the bearing, a lever pivoted to said plate, a brake band connected to the lever, and a brake drum on the shaft engageable by the band.

1,425,601. PORCELAIN TOOTH FOR CROWN, BRIDGE, AND PLATE WORK. VINCENT MALLON, New York, N. Y., assignor to Dental Manikin Head Co. Inc., a Corporation of New York. Filed Oct. 26, 1920. Serial No. 419,592. 1 Claim. (Cl. 32—30.)

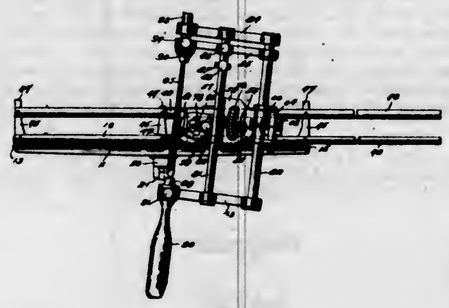
In a porcelain tooth for crown, bridge and plate work having a solid surface construction an encircling groove

commencing near the biting edge of the mesial surface, running in upward direction across the mesial surface, extending in mesio-distal direction through the porcelain



at the base of the tooth and again in upward direction across the distal surface, terminating near the biting edge of the distal surface.

1,425,602. SAW-FILING MACHINE. JAMES E. MEED, Palestine, W. Va. Filed Sept. 11, 1920. Serial No. 409,606. 25 Claims. (Cl. 76—33.)



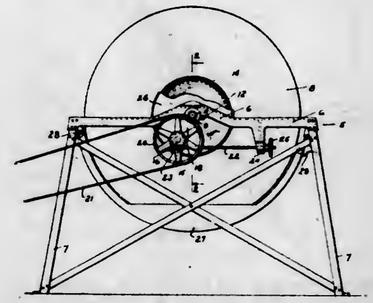
1. A saw sharpening machine including a support therefor, said machine comprising a fixed clamping jaw and a movable clamping jaw, a housing depending from said fixed clamping jaw at a point medially of the ends thereof and having a portion underlying said movable clamping jaw, fastening means carried by said housing for securing the machine in position on the support, means carried by the underlying portion of said housing for controlling the clamping action of said movable jaw, a trackway extending parallel to said clamping jaws, a carriage movable on said trackway, a tool frame movable on said carriage, and means on said carriage for angularly adjusting said tool frame.

1,425,603. COMPOSITION FOR PRODUCING COATINGS ON REFRACTORY ARTICLES AND ARTICLES COATED THEREWITH. WILLIAM ROY MOTT, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Jan. 14, 1919. Serial No. 271,128. 5 Claims. (Cl. 106—9.)

1. As a new article of manufacture, a refractory article provided with a coating comprising an oxy-compound of boron, associated with iron and chromium.

1,425,604. BELT OR CHAIN TIGHTENER. IENAR F. NELSON, Racine, Wis. Filed Sept. 16, 1920. Serial No. 410,732. 1 Claim. (Cl. 64—52.)

In a device of the class described, the combination with a journaled shaft, of an internal gear carried thereby, a plate closing said gear, a counter shaft parallel with the first named shaft and movable in an arc using the axis of the internal gear as the center, said counter shaft having its inner end extended into said gear



through the plate, a drive gear on the inner end of the counter shaft and in mesh with the internal gear, and means for swinging the counter shaft to change the relative positions of said gears without disengaging the same.

1,425,605. PROCESS OF PRODUCING ORGANIC ACIDS. ALLAN F. ODELL, Brooklyn, N. Y. Filed Dec. 14, 1915. Serial No. 66,794. 17 Claims. (Cl. 23—24.)

1. The process which consists in oxidizing a carbohydrate in the presence of a metalliferous catalyser under such conditions that tartaric acid is produced and recovering the thus produced tartaric acid.

13. In the manufacture of organic acids, the subprocess of treating a material containing mixed salts of tartaric and saccharic acids, which consists in treating the material with a soluble calcium salt solution to dissolve the saccharic acid salt, filtering, recovering the undissolved tartrate salt, and recovering the saccharate salt from the filtrate.

1,425,606. ELECTRIC-LIGHT BULB. CLEVELAND H. QUACKENBUSH and HARVEY E. QUACKENBUSH, Cleveland, Ohio. Filed Apr. 6, 1921. Serial No. 458,946. 3 Claims. (Cl. 176—16.)



1. As a new article of manufacture, an electric light bulb, comprising an inclosed head, and a tubular neck, the wall of said neck being drawn down from a predetermined thickness at the throat line to comparative thinness at the sealing line.

1,425,607. FOUNTAIN PEN. JOHN C. ROBISON, New York, N. Y. Filed Aug. 18, 1921. Serial No. 493,281. 4 Claims. (Cl. 120—42.)

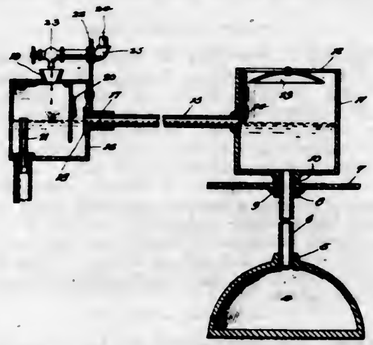
1. A fountain pen having a main reservoir, means forming an auxiliary reservoir having an unrestricted communication with said main reservoir to permit the

supply of ink in said auxiliary reservoir to discharge freely into said main reservoir when said pen is inverted



or sufficiently shaken, said means being constructed and arranged to retain a supply when said pen is in writing position.

1,425,608. AIR MOISTENER. CLARENCE E. SALLADA, Huron, S. Dak. Filed Aug. 2, 1921. Serial No. 489,290. 6 Claims. (Cl. 126—113.)



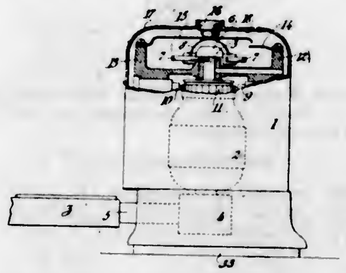
1. A humidifying attachment for hot air furnaces comprising a generator to be supported in the fire box of the furnace, an open-top reservoir to be supported exteriorly of the fire box of the furnace and in communication with the generator, a supply pipe extending laterally from said open-top reservoir, a receiving reservoir secured on the outer end of the supply pipe, and means for supplying water in a constant retarded regulated flow to said receiving reservoir.

1,425,609. SLED-RUNNER ATTACHMENT FOR MOTOR VEHICLES. JOHN G. SCHOLZ and EDWARD WELLER, Belgrade, Minn. Filed July 30, 1920. Serial No. 400,026. 1 Claim. (Cl. 180—6.)



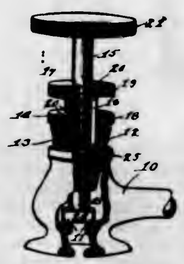
In combination with sled runners suspended from the front axle of a vehicle and wheels embodying clincher rims mounted on the rear axle of the vehicle, of a relatively broad traction rim equipped with ribs on its outer periphery, braces secured to the inner periphery of said rim and terminating centrally of the latter, and a hub carried by the inner ends of said braces and engageable directly with said rear axle substantially as described.

1,425,610. AUTOMATIC ELECTRIC SWITCH. WILLIAM GENTRY SHELTON, New York, N. Y. Filed Mar. 17, 1916. Serial No. 84,869. 9 Claims. (Cl. 200—80.)



1. A centrifugal switch comprising a rotor, weights carried thereby pivoted on axes parallel to the axis of said rotor, and movable in a plane perpendicular to the axis of rotation, circuit-closing contacts and a spring for applying the movement of said weights, to operate said circuit contacts, in a direction along the axis of said rotor.

1,425,611. VALVE-RESEATING TOOL. MORTIMER B. SKINNER, Wilmette, Ill. Filed Apr. 22, 1920. Serial No. 375,721. 3 Claims. (Cl. 90—125.)



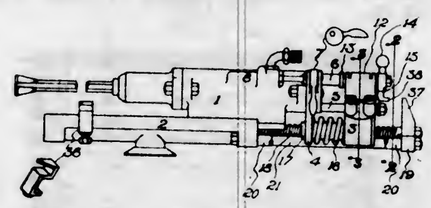
1. In a valve reseating tool of the class described the combination of a cutter, a shaft on which the cutter is mounted, means for rotating the shaft by hand, a feed stem through which the shaft extends rotatably, screw threads externally on said stem, a conical anchoring element having external threads adapted to engage with threads in the opening of the valve normally holding the valve-stem-holding parts, said anchoring element having an axial hole threaded to engage the threads of said stem, the stem being threaded into said anchoring element, stop means on said shaft against which said stem bears to hold the cutter against the seat to be surfaced, and means for turning said stem by hand on its axis to feed the cutter into the seat.

1,425,612. METHOD OF PRODUCING AND APPLYING ENAMEL COATINGS TO METALLIC SURFACES. HERBERT M. SMITH, Great Barrington, Mass., assignor to Stanley Insulating Company, Great Barrington, Mass., a Corporation of Maine. Filed Sept. 30, 1918. Serial No. 256,283. 2 Claims. (Cl. 91—73.)

1. As a part of the process of enameling, applying an enamel mixture to a surface which is to be coated there-

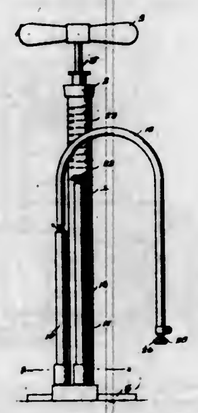
by, distributing the material over the surface, subjecting it to a fusion temperature and applying an air blast thereto while the fusion is going on.

1,425,613. FEEDING MEANS FOR DRILLS. HAROLD I. STAGE, Easton, Pa. Filed Sept. 18, 1919. Serial No. 324,426. Renewed June 22, 1922. Serial No. 570,186. 9 Claims. (Cl. 121—9.)



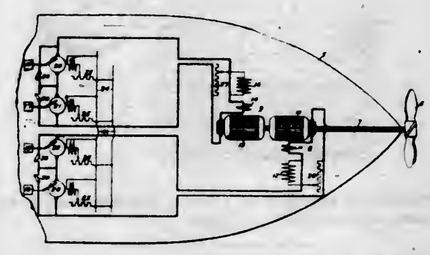
1. The combination of a carriage, an impact motor slidably mounted on said carriage, a non-rotatable feed screw, a feed nut, a fluid operated reversible feeding motor adapted to rotate the feed-screw nut on the said non-rotatable feed screw, motive fluid conveying and admitting means to operate said feeding motor, and spring pressed governing means to control said motive fluid admitting means to the feeding motor, actuated by the varying recoil pressure of the impact motor when drilling.

1,425,614. PUMP. FREDERICK STICKEL, Chicago, Ill. Filed Mar. 18, 1921. Serial No. 453,277. 5 Claims. (Cl. 230—27.)



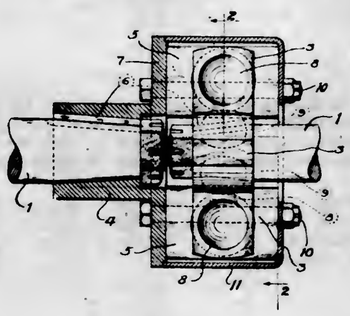
1. A combined pump and pressure indicator comprising a pump barrel, a cylinder extending parallel with said barrel, a supporting base for said cylinder and barrel provided with a passage establishing communication between the barrel and cylinder, said barrel provided with an air chamber in its lower end, a check valve for controlling passage of air into said chamber, an indicator carried by said base and comprising a tube having an air chamber in its lower end, said base provided with a by pass establishing communication between the chambers in said cylinder and tube, and means within said tube adapted to be acted upon by air entering the chamber in the tube for indicating the pressure of the air.

1,425,615. SYSTEM OF SHIP PROPULSION. WILFRED SYKES, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 23, 1919. Serial No. 299,304. 5 Claims. (Cl. 290—4.)



2. In a system of electrical ship propulsion, the combination with a shaft of a motor unit coupled thereto, a plurality of variable-voltage generators for the energization of said motor unit, said generators being adapted for independent speed variation, and a series circuit connecting said generators to said motor unit.

1,425,616. FLEXIBLE COUPLING. GURDON L. TARBOX, Plainfield, N. J., assignor to Spicer Mfg. Corporation, South Plainfield, N. J., a Corporation of Virginia. Filed Jan. 8, 1921. Serial No. 435,919. 7 Claims. (Cl. 64—96.)

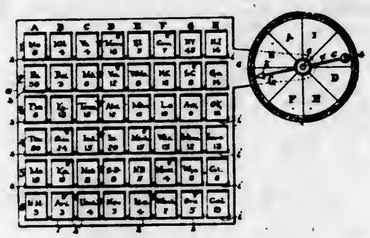


5. A flexible shaft coupling comprising two hub members, a series of projections fixed to each hub member, the projections on one member alternating with and disposed between those on the other member, bowl shaped cavities formed on the adjacent faces of the projections, rubber balls disposed in said cavities normally held under compression and operating to flexibly connect the two parts of the coupling, the cavities having a greater radius of curvature than the balls so as to permit the balls to roll under service conditions and the two halves of the coupling being free to move except as restrained by the balls.

1,425,617. GAME APPARATUS. RICHARD S. TERRY, Milford, Conn. Filed May 20, 1921. Serial No. 471,145. 3 Claims. (Cl. 46—63.)

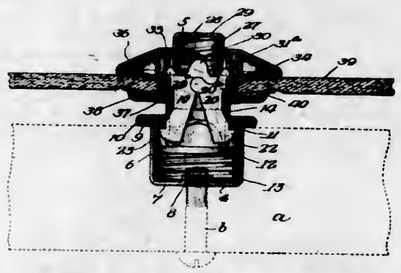
1. A game apparatus comprising a board having a series of individual openings therethrough arranged in horizontal and transversal rows, plates associated with said openings and adapted to normally assume a horizontal position on the board, and also adapted to be inserted in the openings into a vertical position, one end of the plates having means adapted to engage the board and

maintain said plates in such vertical position, and means at the opposite end of the plates adapted to engage the



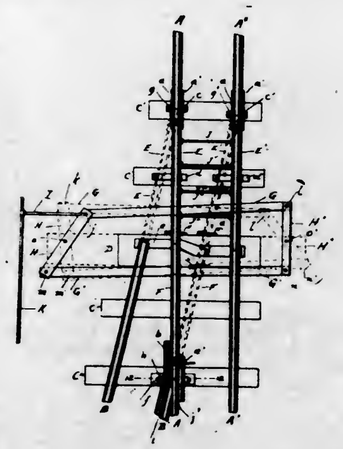
underside of the board to prevent disengagement of said plates with respect to the board.

1,425,618. CURTAIN FASTENER. JOHN VODICKA, Chicago, Ill., assignor to Cinch Fastener Corporation, Chicago, Ill., a Corporation of Illinois. Filed Oct. 4, 1920. Serial No. 414,438. 7 Claims. (Cl. 24—211.)



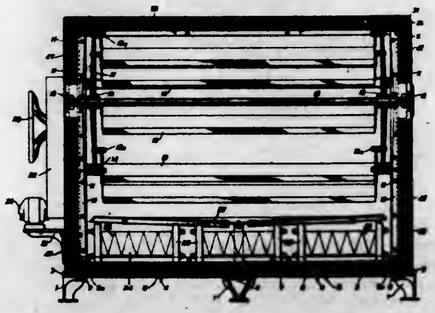
1. In a curtain fastener a socket and an entering member having means for retaining it in the socket and a follower in the socket adapted to close the opening therein when the entering member is withdrawn.

1,425,619. FROGLESS SWITCH. MICHAEL WALSH, Denver, Colo. Filed July 2, 1920, Serial No. 393,658. Renewed Apr. 4, 1922. Serial No. 549,501. 4 Claims. (Cl. 246—387.)



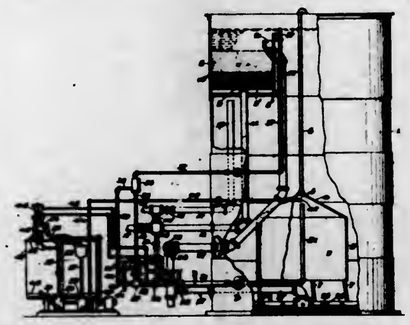
1. In trackway switches, the construction of sections of the main trackway, adaptable to be carried by an attached pair of connected and interacting parallel members moving in opposite directions, into position as elements of a completed switch-way from the main track, without additional or auxiliary rails, guard-rails or frogs, substantially as described.

1,425,620. ELECTRIC BAKE OVEN. JAMES C. WOODSON, Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed June 25, 1921. Serial No. 480,289. 5 Claims. (Cl. 107—59.)



1. A reel type bake oven comprising a reel mechanism in said oven, a supporting frame, a double-wall bottom panel located on said frame and a plurality of members in said panel for spacing apart the walls thereof and for supporting said reel mechanism.
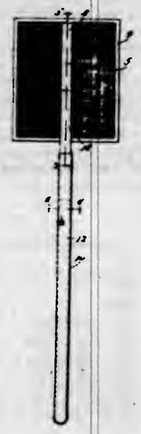
1,425,621. WATER-SOFTENING APPARATUS. JOSEPH D. YODER, Philadelphia, Pa., assignor to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 27, 1920. Serial No. 376,956. 17 Claims. (Cl. 210—16.)



1. Water treating apparatus comprising a treating tank, pipes delivering water to be treated and reagent into said tank adjacent the bottom thereof, a filter adjacent the top of said tank to which the treated water flows upwardly through said tank, a conduit for filtered water passing downwardly in said tank and extending to the exterior thereof adjacent the bottom of said tank, and valve controls for said conduit external to said tank adjacent the bottom thereof for drawing filtered water from said conduit or for introducing filter wash water in reverse direction through said conduit.

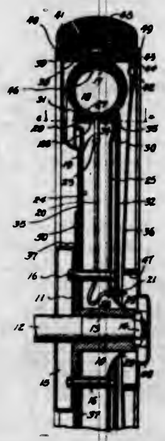
1,425,622. FLY SWATTER. RICHARD ZOHM, Rockford, Ill. Filed Oct. 17, 1921. Serial No. 508,270. 3 Claims. (Cl. 43—137.)

1. A swatter of the character described comprising a rectangular wire fabric body, a main spring member, one end of which constitutes part of a handle structure and to the other end of which is secured a pair of spring cross bars in longitudinally spaced relation, the



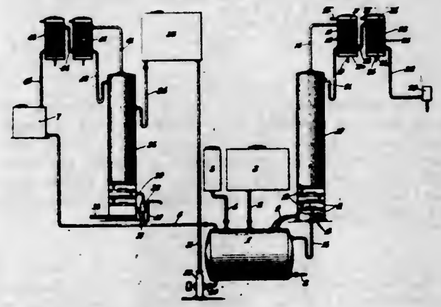
opposite ends of said wire fabric body being turned over said cross bars, and a binder enveloping the turned over ends of the fabric body.

1,425,623. RESILIENT WHEEL. HIRAM C. ANDERSON, New York, N. Y. Filed July 25, 1921. Serial No. 487,282. 3 Claims. (Cl. 152—34.)



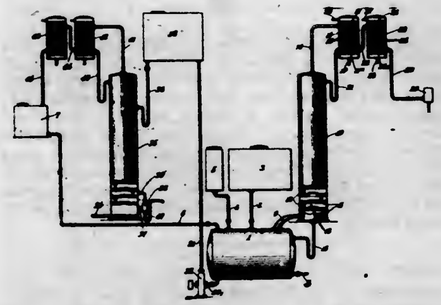
1. In a resilient wheel, the combination of an external rim including a cylindrical member provided with a series of cups, and inwardly projecting dust excluding members, one of which comprises a flange mating with said cylindrical rim member and having cups interlocking with the cups aforesaid, and an inner wheel structure comprising a hub, a body portion comprising a pair of disks, and a cushion supported upon the peripheral portion of the disks and adapted for relative radial movement with respect to the dust excluding members aforesaid, the cushion having direct cooperation with the series of cups aforesaid to prevent relative circumferential movement between the parts.

1,425,624. APPARATUS FOR THE MANUFACTURE OF ESTERS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Oct. 11, 1919. Serial No. 329,924. 6 Claims. (Cl. 260—173.)



1. In combination, an esterification chamber, a rectification column connected by a conduit thereto, a concentrating column connected by a conduit to the chamber to receive liquid therefrom, and a conduit from the vapor discharge of the concentrating column leading back to the chamber.

1,425,625. PROCESS FOR THE MANUFACTURE OF ESTERS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Oct. 11, 1919. Serial No. 329,925. 8 Claims. (Cl. 260—106.)



1. The process of esterifying an alcohol and an organic acid in the presence of a catalyst by the application of heat, characterized by continuously distilling off the ester formed and condensing out from the distillate vapors the major portion of the other vaporized constituents and continuously returning them to the sphere of reaction.

1,425,626. METHOD FOR THE PRODUCTION OF ESTER-CONDENSATION PRODUCTS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 29, 1921. Serial No. 465,473. 15 Claims. (Cl. 260—106.)

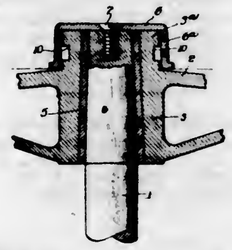
1. A process of forming a condensation product which comprises reacting upon an ester with a metal to form a compound of the metal therewith and an alcohol, continually removing substantially all of the alcohol so as to enable the reaction to continue and then adding sulfuric acid.

1,425,627. AUTOMATIC FIREARM. ARTURO BARDELLI, Milan, Italy. Filed Feb. 24, 1920. Serial No. 360,935. 3 Claims. (Cl. 42—3.)



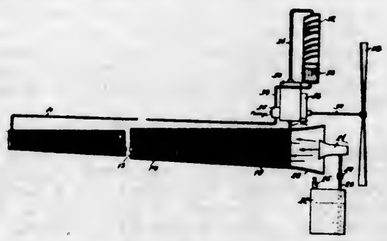
1. In automatic fire arms, means for preventing the firing pin from operating until the breech block is closed, comprising a firing mass, a sliding gas actuated tube, closing levers for the breech block, actuating levers for said closing levers directly operated by the sliding tube, and means controlled by the closing levers for holding the striking mass.

1,425,628. CENTRIFUGAL MACHINE. WILLIAM BARTHOLOMEW, Chicago, Ill., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill., a Corporation of New York. Filed Sept. 15, 1920. Serial No. 410,432. 2 Claims. (Cl. 64—48.)



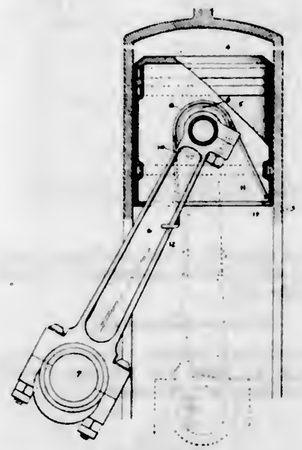
1. In a centrifugal machine, a vertical spindle of hard metal having an upwardly presented, longitudinally tapered free end, a packing sleeve of soft metal closely fitting said tapered end and having a longitudinally tapered outer surface, a basket having a metal hub bored to closely fit the packing sleeve and establishing frictional driving connection through said packing sleeve with the spindle, and a cap overlying the end of the joint formed by said packing sleeve between said spindle and hub, and having a depending flange surrounding the end of the hub.

1,425,629. STEAM POWER PLANT. HARVEY W. BELL, Boundbrook, N. J., assignor to Arthur C. Fraser, trustee, New York, N. Y. Filed Apr. 26, 1917. Serial No. 164,649. 27 Claims. (Cl. 60—96.)



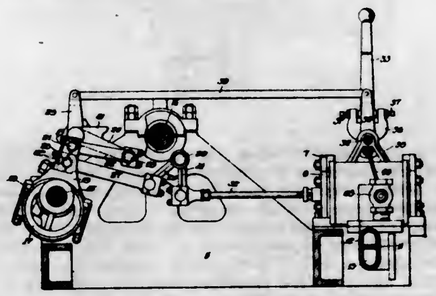
25. A power plant comprising a boiler having a tubular shell and a coil of vaporising pipe therein, a feed pump forcing water into one end of said pipe, a pipe leading steam from the other end of said pipe, a burner introducing fluid fuel into the boiler at said latter end, means for forcing air into said latter end, whereby the greatest heat is generated toward the delivery end of the boiler so that the generated steam may be superheated, the discharge from the boiler to the motor being free from manual control, and means for varying at will the rate of introduction of fuel, whereby the development of power is controlled by such latter means.

1,425,630. ANTIKNOCKING DEVICE FOR PISTONS OF INTERNAL-COMBUSTION ENGINES. CHARLES H. BROWN, Richmond, Calif., assignor of twenty-four and one-half per cent to John Ecklund and twenty-four and one-half per cent to George R. Lincks, both of Richmond, Calif. Filed May 17, 1920. Serial No. 381,812. 1 Claim. (Cl. 74—108.)



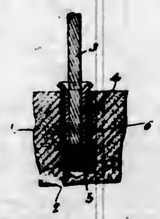
The combination with an internal combustion engine cylinder, a piston reciprocatively mounted in the cylinder, a connecting rod, a wrist pin in the piston and upon which the connecting rod is mounted, a coiled spring surrounding the wrist pin and having extended end portions bearing against opposed sides of the connecting rod and piston.

1,425,631. VALVE-GEAR MECHANISM. HARRY C. CLAY, Columbus, Ind., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed Jan. 27, 1919. Serial No. 273,224. 3 Claims. (Cl. 121—143.)



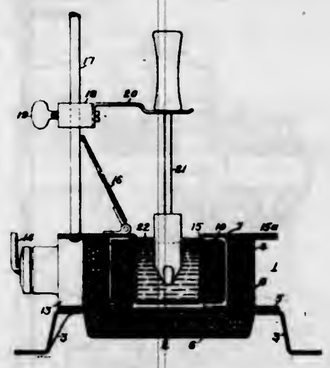
1. The combination with a throttle valve and a valve gear mechanism including a reversing arm, of a rock shaft, a yoke fixed to the rock shaft, fulcrum screws carried by the arms of the yoke, a control lever pivotally supported upon and between said fulcrum screws to swing in a plane parallel with the axis of said rock shaft, an arm fixed to the rock shaft and connected to the reversing arm, and a connection between the controlling lever and the throttle valve, whereby to operate the throttle valve by swinging said lever longitudinally of the shaft and to operate said reversing arm by swinging the lever at right angles to the shaft.

1,425,632. COMMUTATOR BRUSH. WILLIAM S. CLICK, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 29, 1920. Serial No. 420,538. 3 Claims. (Cl. 171—326.)



1. A commutator brush having an aperture therein, a conductor disposed within said aperture, means for retaining said conductor in said aperture, and a powdered material having a relatively high coefficient of electrical conductivity disposed intermediate said retaining means and said brush.

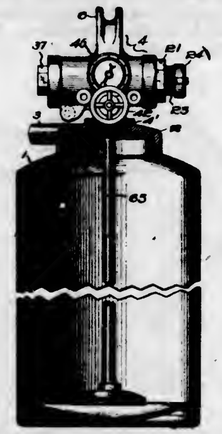
1,425,633. SOLDERING POT AND SOLDERING IRON. ORA A. COLBY, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 10, 1919. Serial No. 343,877. 7 Claims. (Cl. 219—44.)



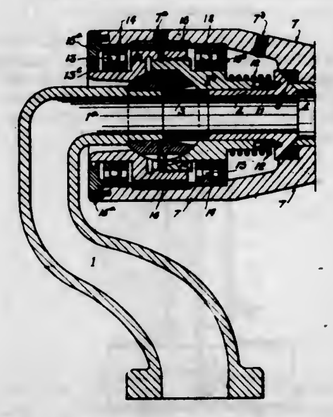
1. In an electrically-heated apparatus, the combination with material to be heated and a heat-insulating supporting means therefor, of an annular resistor-supporting means, and a resistor wound thereon, said resistor-supporting means being located in spaced relation intermediate the material to be heated and said heat-insulating supporting means.

1,425,634. PRESSURE REGULATOR. HERBERT W. DAY, Wollaston, Mass., assignor to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 10, 1921. Serial No. 436,022. 9 Claims. (Cl. 91—45.)

1. In an apparatus of the class described and in combination, a liquid receptacle and an air brush or paint gun in connection therewith, a self-contained pressure regulator head having a projection adapted to be directly attached to said receptacle or closure thereof, and providing communication with said receptacle, said head being partitioned to provide a plurality of chambers, and a valve seat, one of said chambers being in communication with a source of fluid pressure supply, a reducing valve adapted to said seat, means establishing communication between said regulator head and said air brush or paint gun, there being communication through said regulator head between the liquid in said receptacle and said paint gun or air brush.



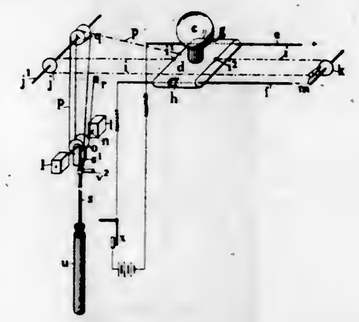
1,425,635. DOLL HEAD OR BEARING FOR DRYING CYLINDERS. GERALD DOD, Southport, England. Filed Nov. 15, 1921. Serial No. 515,372. 7 Claims. (Cl. 285—10.)



7. In combination, a stationary doll-head conduit, a ring or housing supported by said conduit, a hollow cylinder trunnion, a tubular extension fixed to said trunnion and overhanging the end of same, a packing ring carried by the doll-head conduit, and lying within and contacting with the said tubular extension of the trunnion, an annular member surrounding said tubular member and having a periphery corresponding to part of a sphere, and coacting with the said ring or housing to support the trunnion axially and allow of universal axial

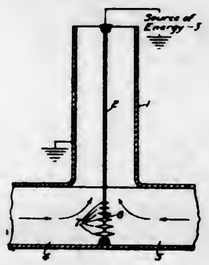
movement and endwise movement of said trunnion, anti-friction devices being provided between said tubular extension of the trunnion and the annular member to reduce friction and said annular ring having end flanges which enclose the anti-friction devices, as set forth.

1,425,636. APPARATUS FOR THE REPRODUCTION OF DRAWINGS BY ARTIFICIAL LIGHT. PHILIBERT ALBERT MARIUS DUBIEF, Courbevoie, France. Filed Sept. 2, 1919. Serial No. 321,127. 2 Claims. (Cl. 95—775.)



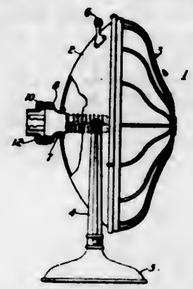
1. An apparatus for the reproduction of drawings by artificial light, comprising in combination, a frame; an electric lamp; a movable carriage for the lamp; fixed conducting guide rods for and insulated from the carriage; contact members connecting the lamp to the said guide rods; a driving counterweight; a plurality of pulleys; a cable passing over the pulleys and attached to the frame and to the carriage for moving the lamp in one direction; a hydraulic brake for retarding the descent of the counterweight and controlling the speed of the lamp; means for lighting and extinguishing the lamp; and means, adjacent t othe movable carriage and lamp, for receiving and holding the drawings.

1,425,637. DISCHARGE ELECTRODE FOR PRECIPITATING SYSTEMS. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 15, 1919. Serial No. 277,329. 5 Claims. (Cl. 183—7.)



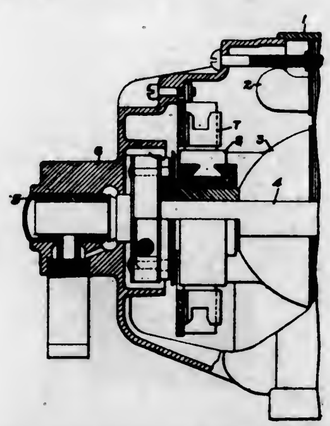
1. In a system of precipitation, a discharge electrode, a collecting electrode coacting therewith, the discharge electrode extending beyond the collecting electrode, the projecting portion thereof being tapered, the part of said projecting portion having the least cross-sectional area being disposed a greater distance from the collecting electrode than the remainder thereof, and further preionizing means integrally associated with said projecting portion.

1,425,638. SCREW-SOCKET CONNECTION FOR RADIATORS. FRANK F. FORSHEE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Nov. 20, 1919. Serial No. 339,267. 8 Claims. (Cl. 219—34.)



1. In an electric radiator, the combination with a reflector having an axial opening and a rearwardly removable unitary heating element in axial alinement in said reflector said heating element comprising a rearwardly-extending terminal block and a forwardly-extending heater, of rearwardly-extending means secured to said reflector in said opening and having a portion provided with screw threads coaxial therewith for holding said heating element in axial alinement.

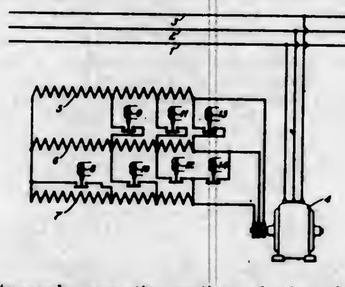
1,425,639. CENTRIFUGALLY-ACTUATED SHORT-CIRCUITING DEVICE. GEORGE H. GARCELON, Swissvale, and JOSEPH L. CHANTEMERLE, Turtle Creek, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 3, 1916. Serial No. 95,028. 9 Claims. (Cl. 172—279.)



4. In a dynamo-electric machine, the combination with a rotatable shaft having a commutator cylinder comprising a plurality of spaced conducting bars, a contact member movably mounted upon said shaft, and means for moving said contact member in a helical path for engagement with the ends of said bars.

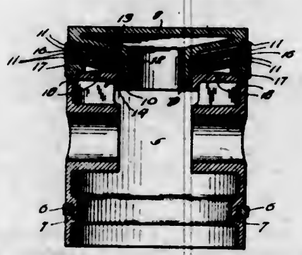
1,425,640. MOTOR-CONTROL SYSTEM. ADOLPH A. GANDA, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 29, 1917. Serial No. 145,268. 9 Claims. (Cl. 172—274.)

1. In a motor-control system, the combination with an alternating-current motor having a plural-phase winding and resistors in circuit therewith, of means for successively shunting a portion of one of said resistors and



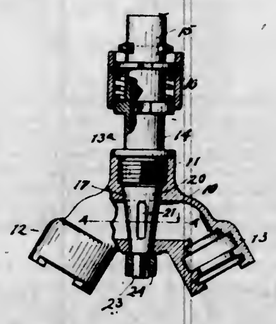
simultaneously connecting portions of other of said resistors in parallel relation to each other and in series relation to said one resistor.

1,425,641. PISTON AND PACKING FOR THE SAME. FRANK ELLIS GOUGH, Oklahoma, Okla. Filed Sept. 6, 1921. Serial No. 498,619. 8 Claims. (Cl. 74—109.)



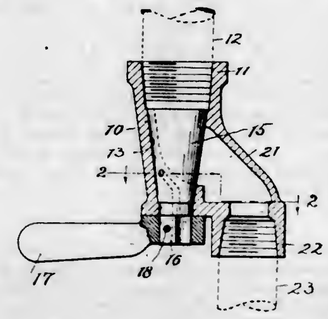
1. In combination a two-part piston, a flexible concavo-convex packing element clamped between the parts of said piston and a laterally expanding ring acting under the influence of said concavo-convex element.

1,425,642. FITTING FOR AIR LINES AND THE LIKE. LOUIS W. GREVE, Cleveland, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 1, 1918. Serial No. 247,708. 1 Claim. (Cl. 251—109.)



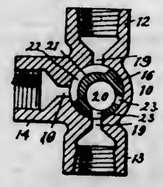
A fitting for air lines and the like substantially in the form of a Y provided with a central part with an inlet portion and a tapered valve seat having its end toward the inlet portion, said fitting being provided also with a pair of outlet portions having outlet passageways which are elongated adjacent the central part of the fitting and terminate in elongated ports in the valve seat, and a tapered valve engaging said seat and having elongated ports adapted to register with said elongated ports of the seat.

1,425,643. AIR VALVE. LOUIS W. GREVE, Cleveland, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 23, 1918. Serial No. 236,110. 4 Claims. (Cl. 251—95.)



1. A valve comprising a valve body having an inlet end with a portion to which a pipe connection may be made and merging into a tapered valve seat which is in line with said inlet end and is provided with an elongated lateral port, and said valve body having a lateral extension terminating in an outlet end to which a pipe connection may be made, and provided with a passageway which leads from said port and at said port is narrowed and elongated in substantial conformity with the shape of the port, and widening as it approaches the outlet end, and a tapered valve engaging said seat and having its large end toward the inlet end of the valve body and having a reduced operating end projecting from the valve body, said valve having a passageway extending from the large end and a lateral elongated opening adapted to register with said port in the seat.

1,425,644. VALVE. LOUIS W. GREVE, Cleveland, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 26, 1920. Serial No. 426,408. 2 Claims. (Cl. 251—108.)

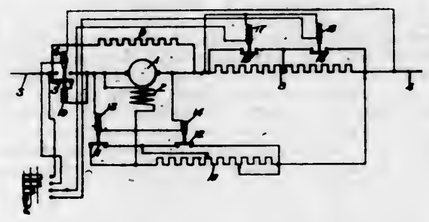


1. A four-way valve comprising a valve body having a valve seat, an inlet in line therewith, and three outlets, two being delivery outlets and the third being an exhaust outlet, a movable valve member engaging the seat and having an opening extending from one end into the same with lateral delivery means adapted to register with either of said delivery outlets when the valve is turned to different positions, and said valve having between its ends and external to said opening a circumferentially extending exhaust passageway adapted to connect the exhaust outlet to either delivery outlet when the other delivery outlet is connected by the lateral delivery means to the inlet of the valve.

1,425,645. PROCESS OF PURIFYING AND DEHYDRATING TRANSFORMER OIL. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed May 3, 1921. Serial No. 466,495. 2 Claims. (Cl. 233—29.)

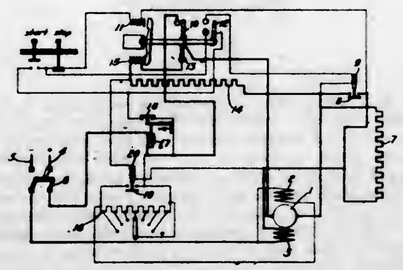
1. The process of continuously and practically completely dehydrating oil, such as transformer oil, containing a relatively very small proportion of water, which comprises subjecting the inflowing oil to be dehydrated to centrifugal force whereby the water therein will be carried to the periphery, confining the water from escape throughout the process so as to build up as the process proceeds a surrounding film or envelope of water of gradually increasing thickness but of a maximum thickness relatively small in comparison with the thickness of the remaining body of liquid that at any given time during the process is being subjected to said force, and while the oil is inflowing and is being subjected to said force floating off the oil from which the water has been eliminated at a point substantially closer to the axis of rotation than the inner wall of the water when the latter is of maximum thickness.

1,425,646. CONTROL SYSTEM. ALBERT L. HARVEY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1919. Serial No. 296,563. 6 Claims. (Cl. 172—179.)



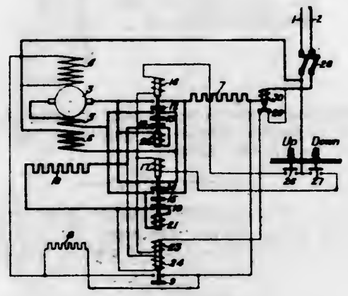
1. The combination with an electric motor having a shunt field-magnet winding, and a resistor in series therewith, of a dynamic-braking resistor and a switch biased to its closed position to effect the shunting of said field resistor, said switch having an actuating coil energized in accordance with the counter-electromotive force of said motor to control a shunt circuit for said resistor during acceleration and during dynamic braking of said motor.

1,425,647. CONTROL SYSTEM. ALBERT L. HARVEY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 15, 1919. Serial No. 297,357. 4 Claims. (Cl. 172—288.)



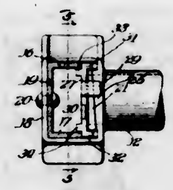
1. The combination with an electric motor having a pair of accelerating resistors and a dynamic-braking resistor, of means responsive to the drop in potential across one of said accelerating resistors and said dynamic-braking resistor for controlling the other of said accelerating resistors.

1,425,648. MOTOR-CONTROL SYSTEM. ALBERT L. HARVEY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 3, 1919. Serial No. 335,468. 7 Claims. (Cl. 172—288.)



2. In a motor-control system, the combination with an electric motor and means for controlling the armature circuit thereof, of means, comprising a switch, for controlling the field excitation of said motor, said switch having two actuating coils that are respectively energized during the normal operation and during the dynamic braking of said motor.

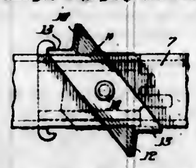
1,425,649. REVERSIBLE-FULCRUM ARRANGEMENT. WILLIAM C. HEDGCOCK, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 8, 1921. Serial No. 490,497. 4 Claims. (Cl. 188—232.)



3. An integrally formed reversible brake beam fulcrum including an end portion for embracing a compression member, the front wall of which portion having a projection with inclined wedge-ways extending rearwardly from the end of the projection, and a wedge-key having wedge-shaped flanges occupying said wedge-ways and adapted to wedge in between the fulcrum and portions of the compression member for securing the fulcrum in its different operative positions.

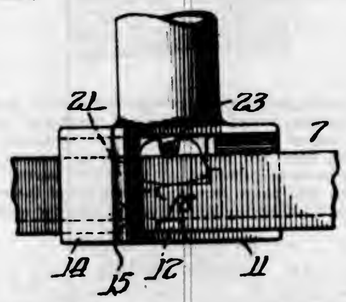
1,425,650. REVERSIBLE-FULCRUM MECHANISM. WILLIAM C. HEDGCOCK, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 8, 1921. Serial No. 490,499. 5 Claims. (Cl. 188—232.)

5. An integrally formed reversible fulcrum having V-shaped wall portions for embracing a brake beam compression member and limiting reversible movements of the fulcrum with respect thereto, and a wedge member insertible between the fulcrum and compression member, said wedge member having flanges engaging the compression member



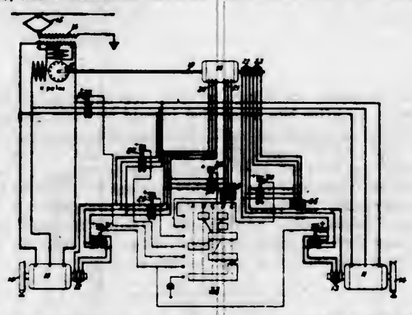
and having a hook portion adapted to overhang one of said V-shaped wall portions to lock the fulcrum in operative position relative to the brake beam member.

1,425,651. REVERSIBLE FULCRUM MEANS. WILLIAM C. HEDGCOCK, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 8, 1921. Serial No. 490,500. 7 Claims. (Cl. 188—232.)



5. In a brake beam, the combination of a compression member, a fulcrum having a portion embracing said compression member and a projection extending toward said compression member, means insertable between the compression member and fulcrum for securing the parts together and a removable member engaging the securing means and the projection on the fulcrum for maintaining the fulcrum fixed in operative position.

1,425,652. SYSTEM OF SPEED CONTROL FOR INDUCTION MACHINES. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 10, 1918. Serial No. 249,333. 22 Claims. (Cl. 172—274.)



2. The combination with a source of alternating current, of two main induction machines, an auxiliary induction machine, means for connecting the primary windings of said main machines to said source, means for connecting the secondary windings of said main machines to the primary and secondary windings of said auxiliary machine, respectively, means independent of said connections for fixing the speed of said auxiliary machine, and means for adjusting the currents supplied to said auxiliary machine.

1,425,653. FENCEPOST. JOHN S. HOLLANDER, De Quincy, La. Filed Oct. 25, 1921. Serial No. 510,283. 2 Claims. (Cl. 256—52.)

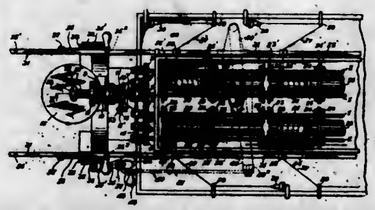


2. A fence post comprising a reinforced vertical section provided with wire receiving notches, said post having near the ground line an inwardly extending angular notch, the upper end of said post provided with an integral screw threaded bolt extending from the top of said post at an angle substantially the same as the angle of said notch, a clamping bar adapted to co-operate with said post, terminating at its lower end in a wedge, and having at its upper end a perforated overhanging portion, said post adapted when assembled to positively cam the clamping bar into position and to releasably lock said clamping bar in locking position.

1,425,654. PROCESS OF PRODUCING LUSTROUS THREADS, ETC. CHARLES A. HUTTINGER, Lakewood, Ohio, assignor, by mesne assignments, to The Acme Artificial Silk Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 12, 1919. Serial No. 303,776. 6 Claims. (Cl. 18—54.)

1. The method of producing threads of the character described, consisting in, saturating wood pulp with a solution of sodium hydroxide and water of a specific gravity of substantially 1.17; subjecting the mixture to pressure; adding carbon bisulphide to the resultant alkali cellulose; adding water; filtering; and then forcing the resultant viscose solution through suitable dies into a precipitating bath comprised of a semi-neutral sulphate salt and water, said bath containing no free acid and being used at a temperature of substantially seventy (70) degrees Fahrenheit.

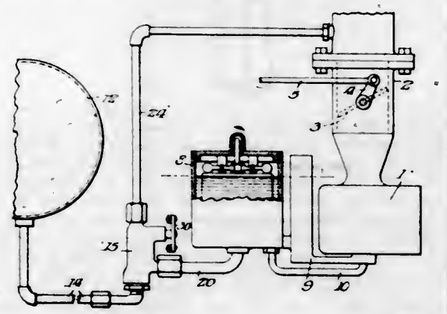
1,425,655. TRAVERSE MECHANISM FOR WINDING MACHINES. CHARLES A. HUTTINGER, Lakewood, Ohio, assignor, by mesne assignments, to The Acme Artificial Silk Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 9, 1919. Serial No. 329,471. 4 Claims. (Cl. 242—43.)



4. In traverse mechanism for winding machines, the combination of a driving member; means furnishing a pin-

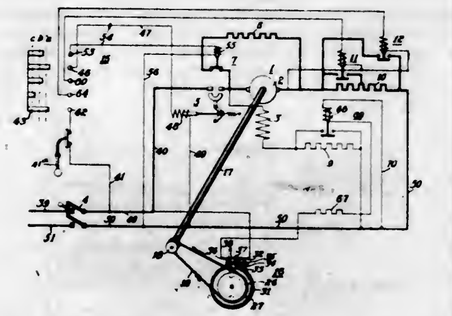
rality of threads; a series of axially aligned bobbins upon which the respective threads are to be wound; rotatable means connected to said driving member, said bobbins being turned by said rotatable means; thread guides disposed adjacent alternate bobbins; a movable bar upon which said guides are mounted; an operating handle pivoted at one end upon said bar and formed at the other end with a locking pin; locking recesses formed in said bar upon both sides of the pivotal axis of said handle and spaced from said axis a distance equal to the distance therefrom of said locking pin, said distance being substantially equal to the distance between the centers of adjacent bobbins; and means continuously relatively moving said bar and said bobbins.

1,425,656. AUTOMATIC GASOLINE SHUT-OFF VALVE. HARRY R. JACKSON, Chicago, Ill., assignor of one-half to Henry A. May, Chicago, Ill. Filed Sept. 12, 1921. Serial No. 499,994. 5 Claims. (Cl. 123—180.)



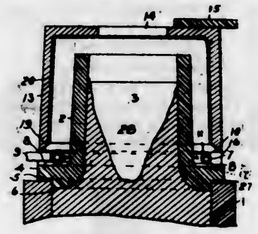
1. In combination, a carburetor having a delivery duct leading to the intake of the engine, a float feed chamber connected to the carburetor, a fuel tank, a pipe leading from the tank to the feed chamber and having a branch leading to the delivery duct, and a shut-off valve in said pipe located between the branch and the fuel tank, said valve being subject to the variation in vacuum in the branch and being normally closed and adapted to open when the suction in the branch reaches a predetermined degree.

1,425,657. MOTOR-CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 5, 1920. Serial No. 421,888. 12 Claims. (Cl. 172—179.)



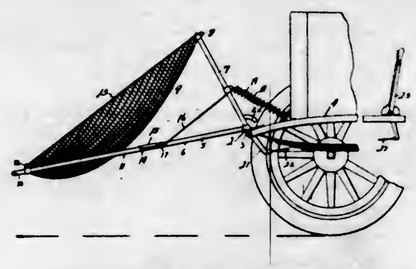
12. The combination with a motor subject to variable loads, said motor having a field-magnet winding, of means for varying the excitation of said winding during dynamic braking, and an automatic device comprising a member controlled by the speed of said motor for operating said means to raise or lower the speed of said motor upon said motor varying its speed below or above a predetermined value during dynamic braking.

1,425,658. INGOT-CASTING DEVICE. FRANK L. JAMISON, Pittsburgh, Pa. Filed Jan. 6, 1921. Serial No. 435,341. 1 Claim. (Cl. 22—147.)



An ingot casting device comprising a head having its lower portion formed with a flange adapted to be seated on the top of a mold body, a hood enclosing and spaced from the head and providing a heating chamber, and a heating element arranged at the lower portion of the chamber, said flange forming the bottom of the chamber, and said hood having legs extending into the said flange.

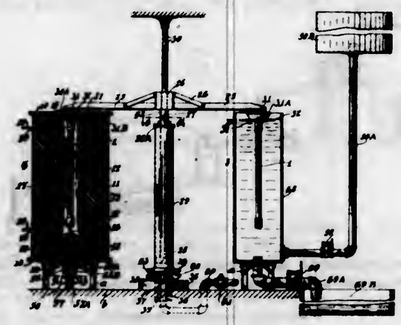
1,425,659. VEHICLE FENDER. OMAR G. JONES, Philadelphia, Pa. Original application filed Oct. 9, 1920, Serial No. 415,849. Divided and this application filed Jan. 25, 1921. Serial No. 439,763. 5 Claims. (Cl. 293—45.)



2. A fender including brackets for attachment to a vehicle, an after bar journalled in said brackets, uprights rotatably mounted on said after bar, stop arms carried by said uprights and offset therefrom and adapted to engage portions of said brackets for limiting the rearward movements of the uprights, springs attached to said uprights and the vehicle for normally drawing said uprights rearwardly, and means passing through said springs and attached to the vehicle for limiting the forward movements of said uprights.

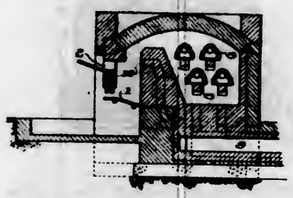
1,425,660. FURNACE FOR THE HEAT TREATMENT OF METALS. LYMAN C. JOSEPHS, Jr., Allentown, Pa., and GOTTFRIED WIEBEL, Plainfield, N. J., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 9, 1920. Serial No. 415,806. 10 Claims. (Cl. 266—4.)

1. In a furnace for the heat treatment of metal, the combination of a series of heat treating stations, a carrier movable to transfer the article under treatment from one station to the next, a motor for operating the carrier, electrical connections through which the motor is operated intermittingly and devices subject to a change



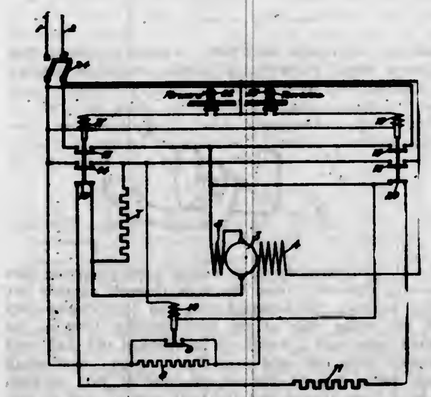
in the rate of change of dimension of the article under treatment whereby the operation of the motor is initiated after each period of rest.

1,425,661. PROCESS OF MANUFACTURING ZINC DUST. TEISUKE KATO, Hyogo Ken, Japan. Filed Nov. 26, 1919. Serial No. 340,928. 1 Claim. (Cl. 75—153.)



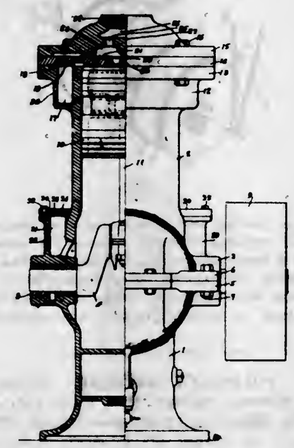
A process of manufacturing zinc dust which consists in volatilizing by heat metallic zinc in a retort from which atmospheric air is excluded; diluting the zinc thus volatilized with a non-oxidizing gas, and quickly cooling the same.

1,425,662. MOTOR-CONTROL SYSTEM. HAROLD L. KEITH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 24, 1919. Serial No. 340,352. 8 Claims. (Cl. 172—288.)



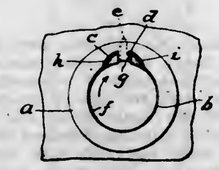
1. In a motor-control system, the combination with an electric motor and a field resistor therefor, of a single switch having a single actuating coil in shunt relation to the armature of said motor for controlling said resistor during the normal operation and during the dynamic braking of said motor.

1,425,663. AIR PUMP. JAMES W. LAWHEAD, Wilmington, Ohio. Filed Jan. 26, 1920. Serial No. 353,941. 4 Claims. (Cl. 230—34.)



1. In an air pump, the combination, with a cylinder having near one end an inlet port and a valve therefor opening inward, an outlet port and a valve therefor opening outward, and having near the other end an outlet passage and a valve therefor opening outward, of a piston operating within the cylinder between said ports, whereby on the suction stroke air is drawn into the cylinder, on the reverse stroke air is forced out of the cylinder and whereby any air that leaks between the cylinder and piston is discharged through said outlet port when the piston is making its suction stroke, thus relieving the piston of back pressure.

1,425,664. BEARING FOR MACHINERY. MEREDITH LEITCH, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 26, 1920. Serial No. 361,610. 14 Claims. (Cl. 64—10.)

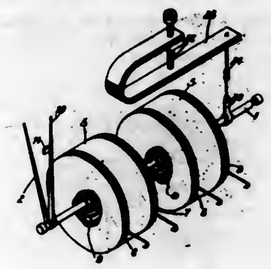


1. In a shaft bearing, the combination with a bearing support and a shaft, the one being rotatable relative to the other, of an interposed expansible shaft-supporting liner, and means adapted in the rotation of the shaft in either direction to expand the liner in the support.

1,425,665. MAXIMUM-DEMAND METER. PAUL M. LINCOLN, Pittsburgh, Pa. Filed July 10, 1918. Serial No. 244,279. 11 Claims. (Cl. 171—34.)

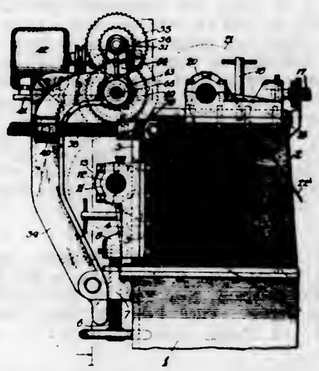
1. A measuring instrument comprising a shaft, a pointer on the shaft, opposing thermal-responsive means

for actuating the shaft, and means for adjusting the indications of the pointer in accordance with the heat radiated from the thermal-responsive means.



9. In a measuring instrument, the combination with a pointer and opposing bimetallic means for actuating the pointer, of a bimetallic spring for opposing the operation of the pointer, said spring being responsive to the heat radiated from said bimetallic means to correct the instrument readings in accordance with the changes in said radiation.

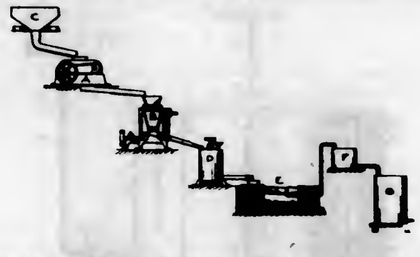
1,425,666. POLISHING MACHINE. ELMER P. MCCLURE, Western Springs, Ill. Filed Oct. 27, 1919. Serial No. 333,573. 20 Claims. (Cl. 51—88.)



1. In a machine for polishing articles symmetrical about a radial line, a work-holding member arranged to engage an article and rotate it, a plurality of rotatable spindles parallel with the axis of rotation of the article and in different radial planes, said spindles being each equipped with polishing disks and the disks of the different sets being staggered with respect to each other, and means for automatically reciprocating said work-holding means axially.

1,425,667. PROCESS OF EXTRACTING METALS FROM ORES. SAMUEL MCKIBBAHAN, Golden, Colo., assignor, by direct and mesne assignments, of two-thirds to F. A. Fuller, Denver, Colo. Filed Feb. 14, 1918. Serial No. 217,279. 4 Claims. (Cl. 75—17.)

1. The process of extracting metals from their ores consisting in mixing a finely comminuted oxidised ore with sodium chloride (NaCl), heating the mixture to a temperature considerably above one thousand degrees centigrade so as to cause volatilisation of metal chlorides formed by the combination of metals present, with



chlorine liberated by decomposition of the salt, and recovering the metal from the volatile product.

1,425,668. TIRE. FRANK L. MARSHALL, Newton Center, Mass. Filed May 6, 1915, Serial No. 26,404. Renewed Jan. 21, 1922. Serial No. 531,005. 9 Claims. (Cl. 152—36.)

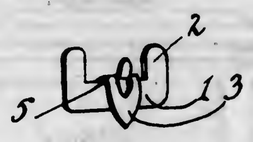


4. The combination of a wheel rim, a shoe on said rim, a hollow endless hoop within said shoe, a soft resilient cushion between said shoe and said hoop and a second soft resilient cushion between said hoop and said rim.

1,425,669. PROCESS FOR PRODUCING CHLORINE PRODUCTS FROM UNSATURATED HYDROCARBONS. AUGUSTUS E. MAZE, Denver, Colo. Filed Aug. 16, 1920. Serial No. 403,663. 9 Claims. (Cl. 23—24.)

7. The process of making chlorinated hydrocarbons comprising passing acetylene into an alkaline alkali-metal solution saturated with chlorine.

1,425,670. COLLAR BUTTON. JAMES S. MEAD, Cincinnati, Ohio. Filed Feb. 21, 1921. Serial No. 446,712. 1 Claim. (Cl. 24—101.)



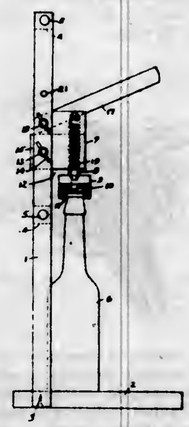
A collar button comprising a body portion, having tabs extending upwardly from the ends thereof, another tab formed between the terminal tabs and bent downwardly from the upper edge of the body portion, between the upward tabs, and a small tongue formed out and bent upwardly from the said bent down tongue, said small tongue being located beyond the line of fold between the bent down tongue and the body portion, and in substantially the same vertical plane as the bent down tongue, as and for the purpose described.

1,425,671. TAIL-DOCKING DEVICE. FREDERICK C. METZLER, Shoshone, Wyo. Filed Apr. 8, 1920. Serial No. 372,185. 8 Claims. (Cl. 128—305.)



1. A tail-docking device comprising a base, a chopping block and a stove oppositely mounted thereon, and a knife pivoted between the block and the stove, to engage the block in its movement in one direction and to be heated by the stove at the end of its movement in the opposite direction.

1,425,672. BOTTLE-CAPPING MACHINE. FRED G. MEYER, Detroit, Mich. Filed Sept. 25, 1919. Serial No. 326,203. 1 Claim. (Cl. 226—84.)



A plunger press, comprising a base, a frame formed of strap-metal having spaced upper portions and having divergent lower portions engaging said base, a head having an extension between said upper portions, means securing said extension to the frame, a flange upon said head engaging said upper portions to prevent swinging of the head about its securing means, a plunger vertically reciprocatory in said head, and a lever pivoted upon said frame between said spaced portions thereof for actuating said plunger.

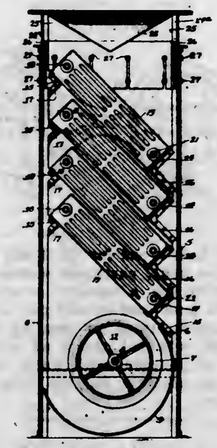
1,425,673. DEEP-WELL PUMP. WILLIAM A. MINOR, Rochester, N. Y., assignor to Luitwieler Pumping Engine Company, Rochester, N. Y., a Corporation of New York. Filed July 25, 1921. Serial No. 487,387. 5 Claims. (Cl. 103—200.)

1. A deep well pump comprising a barrel, two buckets arranged in the barrel, one above the other and having sloping seats, two valves, one for each sloping seat of a bucket controlling the flow of liquid through such bucket, two cages, each connected to one of the buckets about the valves, two rods, each connected to one of the cages, the rod of the upper bucket being hollow and having the rod of the lower bucket extending therethrough, said rod of the lower bucket also extending through the valve of the upper bucket, a packing carried by said



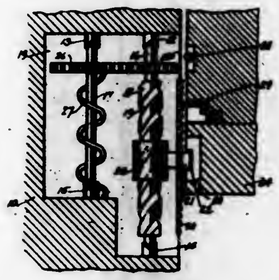
valve of the upper bucket and cooperating directly with said rod and a guide for the rod of the lower bucket, arranged in the upper bucket below the packed valve.

1,425,674. AIR HEATER. THOMAS H. MONAGHAN, Chicago, Ill. Filed May 12, 1921. Serial No. 468,925. 5 Claims. (Cl. 257—137.)



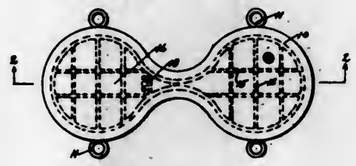
2. An air heater comprising a rectangular elongated fan casing having a cold air inlet opening at its bottom, and discharge openings at its top, disposed around its four sides, a fan mounted in said casing adjacent said cold air inlet opening, and a series of independent radiators mounted in said casing between the inlet and discharge opening, said radiators lying in inclined directions, parallel with and overlapping each other.

1,425,675. WINDOW ADJUSTER. KLEOFAS NAUDULAITIS, Chicago, Ill. Filed Nov. 30, 1921. Serial No. 518,924. 3 Claims. (Cl. 16—197.)



2. In a device of the character described, the combination of a chambered window frame and sash, with a balancing means for the sash, comprising pairwise arranged sockets, rods rotatably held in each pair of said sockets, a thickened part on one of said rods having an outer spiral groove, a sleeve adapted to move up and down on said rod for rotating the same, a tongue on said sleeve adapted to be operated by the up and down movements of the window sash, for rotating said rod, a spiral spring on said rod having one of its ends secured on the bottom wall of the frame chamber, means for imparting the rotation of one of the rods to the other, for tensioning said spring, means for locking the sash in any of its adjusted positions and rollers for facilitating the operation of the window sash.

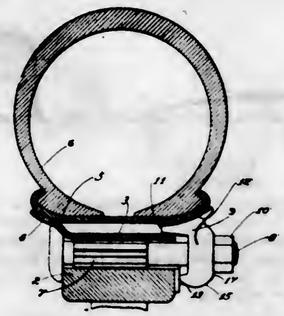
1,425,676. PROTECTOR FOR HORSES. KLEOFAS NAUDULAITIS, Chicago, Ill. Filed Nov. 30, 1921. Serial No. 518,925. 1 Claim. (Cl. 54—80.)



A protecting hollow pad for the heads of horses comprising a flexible body, partitions within said body for dividing said body into a plurality of chambers adapted to be filled with sand, ears on said pad allowing the passage of the harness straps for securing the pad on the head of a horse, said pad having an upper opening for the admission of the sand and water, and a plurality of small bottom openings for the slow escape of the surplus of water.

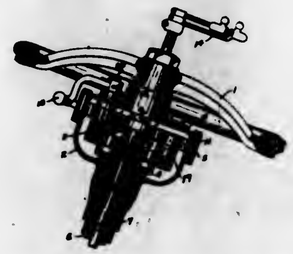
1,425,677. AUTOMOBILE RIM LUG AND WEDGE. ARTHUR WM. NELSON, Chicago, Ill., assignor to Stone Thompson Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 27, 1920. Serial No. 361,763. 2 Claims. (Cl. 301—20.)

1. A demountable rim holding device embodying therein a member formed to provide an opening for the accommodation of a bolt, an annular tapering flange projecting from the body of the device and being annularly reduced at its edge thereby defining an opening smaller in size than the opening defined by the remainder of the flange, a nut having a flange of a size greater than the opening defined by said reduced flange



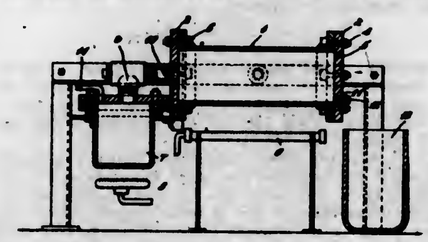
portion and positioned between the wall defining said bolt opening and said inturned flange.

1,425,678. STEERING DEVICE. RAY C. NEWHOUSE, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Oct. 28, 1918. Serial No. 263,423. 15 Claims. (Cl. 74—34.)



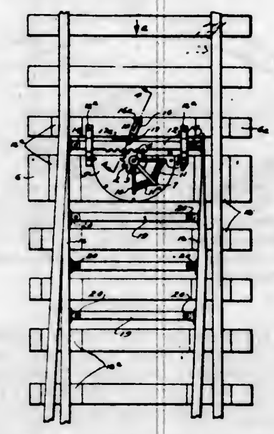
1. In a steering device, a manually operable steering element, a second element movable by said steering element, speed ratio-changing mechanism between said elements, said mechanism including a gear, and supporting structure for said steering element adapted to permit axial movement thereof and thereby to effect movement of said gear to interchangeably connect said elements in different speed ratios through a single set of teeth of said gear.

1,425,679. METHOD OF PRODUCING PHOSPHOR METALS. SAMUEL L. NICHOLSON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 29, 1920. Serial No. 427,091. 2 Claims. (Cl. 75—1.)



1. A method of producing phosphor-metals which coasists in heating a metal to a temperature below its melting point in a retort, passing phosphorus vapors therethrough to phosphorize the same, raising the temperature of the metal to its melting point in the same retort, and casting the same into ingots.

1,425,680. RAILWAY SWITCH. ERIK L. NYLUND, Detroit, Mich. Filed July 26, 1921. Serial No. 487,690. 2 Claims. (Cl. 246—342.)



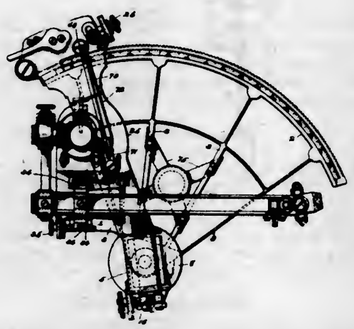
1. In a railway switch mechanism, a pivoted bumper comprising a pinion, a rigid arm and yielding arms, and a rack-bar meshing with said pinion, said rack-bar connecting the two ends of switch rails, and spring means for holding said rack-bar against accidental lateral movement, and means for swinging said bumper.

1,425,681. RESERVE-SUPPLY SYSTEM FOR TANKS. JOHN GEORGE O'BRIEN and FRANK A. PICARD, Saginaw, Mich. Filed Nov. 2, 1921. Serial No. 512,222. 3 Claims. (Cl. 158—46.5.)



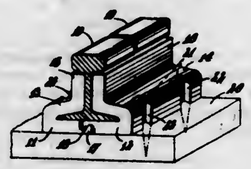
1. In combination with a tank having an outlet and a filling cap, a vertically movable hollow valve controlling said outlet, the casing of said valve formed with a threaded socket, a tubular valve stem, a compressible spring within said casing and surrounding said tubular stem, a rod connected to the upper end of said tubular stem and projecting through the top of said tank, a one-piece bowed handle secured to the end of said rod, one end of said handle adapted to engage the top of said tank, the other end of said handle removably engaging said filling cap, whereby to open said valve.

1,425,682. SEXTANT FOR USE WITH BALLOONS. ROBERT S. OLMSTED, Reading, Mass. Filed July 31, 1920. Serial No. 400,535. 11 Claims. (Cl. 88—2.2.)



1. In an instrument for determining horizontal angles, a normally horizontal graduated limb, a sighting tube pivoted to move in a plane substantially perpendicular to the plane of said limb, a horizontal glass movable with and having a normally fixed relation to the said sighting tube, means for adjusting the angle of said horizon glass in relation to the sighting tube, and an index arm movable over said graduated limb and carrying an index mirror.

1,425,683. RAIL-JOINT FASTENER. SAMUEL PAPP, Lowelliville, Ohio. Filed Apr. 1, 1922. Serial No. 548,568. 1 Claim. (Cl. 238—193.)

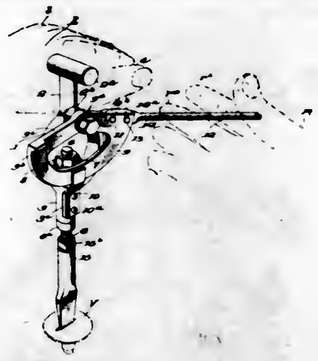


A rail joint comprising a pair of members engaging opposite sides of the rail and having base elements extending under the rail and interlocked together, and hooked elements on one member projecting through slots in the rail and engaging in retaining recesses in the other member said recesses communicating with one end of said last member.

1,425,684. VALVE-GRINDING TOOL AND THE LIKE. THEODORE A. PARMENTER, Racine, Wis. Filed Apr. 8, 1921. Serial No. 459,700. 2 Claims. (Cl. 51—29.)

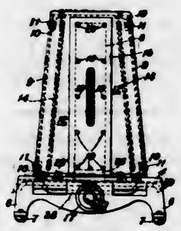
1. In a valve grinding tool, the combination with a frame, a spindle journaled in the frame, a pinion mounted on said spindle, and a rockaby mounted segmental gear in mesh with said pinion for imparting a back and forth rotation to said spindle, of a flat operating handle

secured to said gear and extending radially a distance therefrom, the extended length of said handle twisted longitudinally at approximately a right angle to the



secured length and the twisted portion of said handle forming a shoulder adapted to engage said frame to limit movement of said handle, gear and spindle.

1,425,685. INCLOSED TOASTER. WILBUR PASCOE, Detroit, Mich., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 11, 1920. Serial No. 409,558. 8 Claims. (Cl. 219—19.)



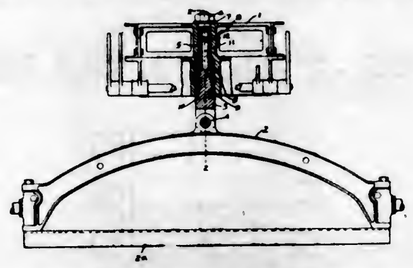
1. In an electric heater, the combination with an enclosing casing having a plurality of oppositely disposed openings and a plurality of heating coils located in said casing of a two-part material holder reciprocally movable in said openings.

1,425,686. COMPOSITE RAILWAY TIE. GEORGE H. PEGRAM, South Orange, N. J. Filed July 2, 1920. Serial No. 393,542. 3 Claims. (Cl. 238—91.)



1. A composite railway tie comprising a cross member of reinforced concrete and rail supporting cross beams adjustably embedded near the ends thereof, said beams being supported at their ends only and terminating in wedge-shaped ends for retention in correspondingly shaped recesses.

1,425,687. FLEXIBLE MOUNTING FOR TRACTOR FRAMES. CARL T. PENTON, Detroit, Mich. Filed Mar. 5, 1921. Serial No. 449,699. 1 Claim. (Cl. 280—112.)

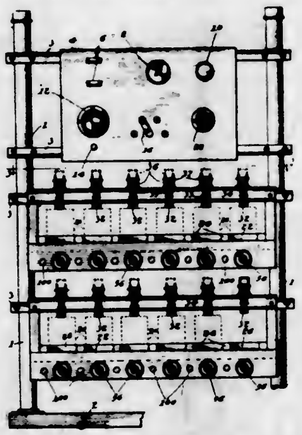


In a tractor, the combination with the frame thereof and an axle supporting an end of the frame, of a vertically slotted pin slidably engaging the frame, and pivoted upon the axle transversely thereof, a spring embracing said pin yieldably transmitting the load of the frame to the axle, and a shaft mounted upon the frame and passing through the slot of said pin.

1,425,688. METHOD OF DELINTING COTTON SEED. LOREN G. POLHAMUS, Chula Vista, Calif., dedicated by mesne assignments to the people of the United States. Filed Apr. 19, 1922. Serial No. 555,636. 1 Claim. (Cl. 83—28.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

The method of delinting cotton seed consisting in exposing cotton seed to the action of gaseous hydrochloric acid for approximately one hour to render the lint extremely brittle, in then agitating the cotton seed to remove the lint, and subsequently, in exposing the cotton seed to fumes of ammonia gas to protect the viability of the seed.

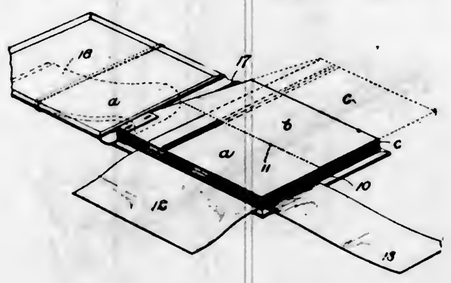
1,425,689. CHARGING RACK. RAYMOND E. POWELL, Chicago, Ill., assignor to Federal Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 1, 1920. Serial No. 414,037. 5 Claims. (Cl. 171—314.)



1. Battery charging apparatus having a charging circuit, a plurality of charging pockets adapted to receive the batteries to be charged and to put them in series in the charging circuit, meter circuits, one for each pocket, each meter circuit being controlled partially by a normally open switch adapted to be closed by the battery when the latter is inserted into a pocket, whereby the meter cannot be put

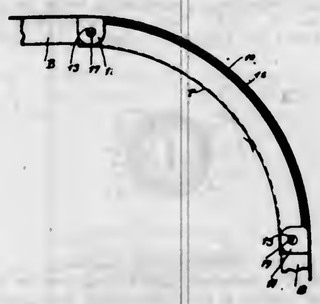
onto closed circuit unless the battery is in place, and partially controlled by a manually operated testing switch, whereby even though a battery be in place, the meter will not be on closed circuit except while the testing switch is closed.

1,425,690. SALES BOOK. JOHN N. POWERS, Washington, D. C. Filed Aug. 6, 1921. Serial No. 490,334. 4 Claims. (Cl. 282—8.)



1. A manifold sales book comprising record sheets divided into sections adapted to be folded into superimposed relation, corresponding edges of the respective sheets being cut at an angle with respect to their direction of fold, said angular cut extending in a straight line through all of the sections when the latter are in unfolded relation.

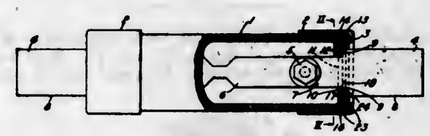
1,425,691. SECURING DEVICE FOR THE CONNECTING STRIPS OF AUTOMOBILES. GUSTAVE H. PRIGAN, Burns, Mont., assignor of one-third to Edward H. Fuller and one-third to Arthur White, both of Burns, Mont. Filed Dec. 27, 1920. Serial No. 433,346. 3 Claims. (Cl. 296—118.)



1. In combination with a top supporting bow and a padding strip therefor, an attaching member comprising an elongated body portion provided upon one face with a plurality of integrally attached fangs extending through the strip and engaging in the bow, and means on the ends of said body portion securing said body portion to the sides of the bow at the sides of the padding strip.

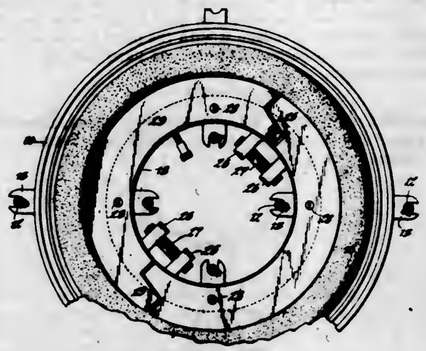
1,425,692. REFILLABLE FUSE. JOSEPH H. PROCTER and MAURITS J. SANDIN, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 25, 1919, Serial No. 273,024. Renewed Apr. 10, 1922. Serial No. 551,195. 3 Claims. (Cl. 200—132.)

1. A refillable cartridge fuse comprising a tubular insulating body member, a terminal member disposed at the end thereof, and having a transverse web portion having its greatest dimension less than the diameter of the interior thereof, means for preventing the turning of the terminal member with respect to the tubular member, a member conforming to the web portion and embracing the same to



form a disk of greater diameter than the interior of the tubular member, means for preventing longitudinal displacement of said embracing member with respect to said terminal member and means for maintaining all of the members in relative position with respect to said tubular member.

1,425,693. TIRE MOLD. HARRY RAFLOVICH, Buffalo, N. Y., assignor, by mesne assignments, to Slohm Tire & Mould Co., Inc., a Corporation of New York. Filed Dec. 31, 1919. Serial No. 348,590. 5 Claims. (Cl. 18—38.)



1. A mold for vulcanizing tires comprising a holder adapted to engage the inner circumferential part of a tire and constructed to be capable of expansion and contraction, means for expanding and contracting the holder, and a mold body having sections engaging with opposite sides of said tire and holder.

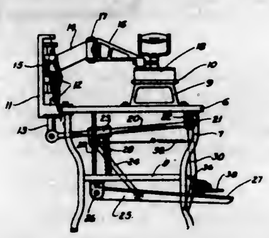
1,425,694. ELECTRICAL ATTACHMENT PLUG. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed Aug. 26, 1919. Serial No. 319,913. 1 Claim. (Cl. 173—332.)



An electrical attachment-plug having a plug-body, and a pair of jaws located therein, each jaw having an integral perforated shank of which the shank of one jaw is longer than the shank of the other jaw and folded over the same to unite the two jaws and each jaw having its side-edges rolled inward to form contact leaves and the said jaws spreading apart for the accommodation between them

of flat contact-fingers and also for the accommodation of round contact-fingers, and the said folded leaves yielding under the action of round contact-fingers after the jaws have reached the limit of their spreading apart by contact with the interior walls of the said plug-body.

1,425,695. LOCKING DEVICE FOR PRESSING MACHINES. EDWARD E. REICH, Chicago, Ill. Filed Feb. 25, 1921. Serial No. 447,676. 8 Claims. (Cl. 74—81.)



5. In a machine having an operating treadle, a ratchet bar mounted on said machine, pawl means mounted on said treadle to engage said ratchet bar and lock said treadle in position, means mounted on said pawl means for embracing said bar to engage it with the pawl means, and resilient means to normally retain said pawl and bar in released position.

1,425,696. NECKTIE BRACE. JOHN H. RICE, Danville, Iowa. Filed Aug. 20, 1921. Serial No. 493,911. 2 Claims. (Cl. 2—84.)



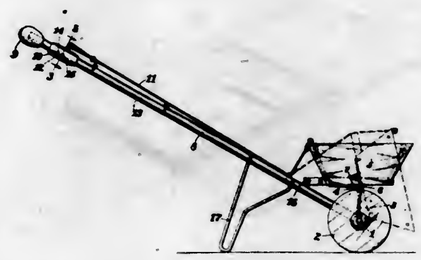
1. A necktie brace of the character described comprising a pair of sections, each section being longitudinally tapered, means carried by each section for connecting said sections to each other, and a flexible tab carried by one of said sections and arranged for connection to a tie to prevent disengagement of the brace from the tie when in use.

1,425,697. PUSH-BUTTON SWITCH. EDWARD E. ROSE and PAUL L. MAHDIS, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 13, 1919. Serial No. 344,564. 2 Claims. (Cl. 200—159.)



1. A switch comprising an apertured metal base member, a tubular insulating member secured thereto, an apertured ping member disposed in said tubular member, and a push-button member disposed in said tubular member having a reduced portion to provide a shoulder thereon, said reduced portion being operable in said plug member and the shoulder functioning to limit the operation of said push-button member.

1,425,698. DUMPING CART. ROBERT A. SALE, Philadelphia, Pa. Filed June 15, 1921. Serial No. 477,782. 6 Claims. (Cl. 298—5.)



1. A dumping cart including a body, tension means exerting pressure upon the body, tending to cause the same to rotate, means restraining the tension means from acting, an axle above which said body is mounted, and an auxiliary axle carried above the first axle and supporting the body, said tension means comprising a coiled spring encircling said auxiliary axle.

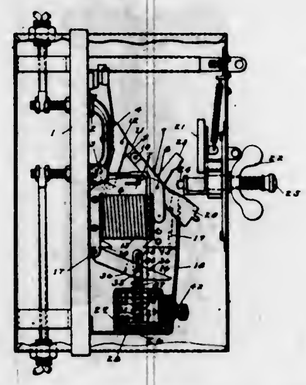
1,425,699. REFILLABLE FUSE. MAURITS J. SANDIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Continuation of application Serial No. 273,024, filed Jan. 25, 1919. This application filed June 4, 1921. Serial No. 475,043. 7 Claims. (Cl. 200—132.)



2. A refillable cartridge fuse comprising a tubular body member, a terminal member disposed at the end thereof and having a fixed transverse web portion, the greatest dimension of which is less than the diameter of the bore of the tubular member, and a member disposed in the plane of, and cooperating with, said web portion to constitute a plate of single thickness across the end of the tubular member and greater in diameter than the bore thereof.

1,425,700. CIRCUIT-BREAKER-TRIPPING STRUCTURE. WILLIAM M. SCOTT, Tredyffrin Township, Chester County, Pa. Filed Nov. 24, 1920. Serial No. 426,129. 20 Claims. (Cl. 200—108.)

19. The combination with an electro-magnet having an armature pivoted for movement in a vertical plane, of sucker structure comprising a fixed sucker element, a coacting movable sucker element connected to said armature, said armature supported by said fixed sucker element when said electromagnet is de-energized, a fixed support, and means for securing said fixed sucker element in different positions upon said fixed support for imparting to said armature different vertical positions

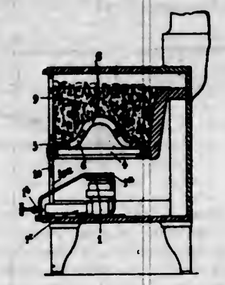


and to impart to said sucker structure vertical positions differing as to their distance laterally from the pivot of said armature.

1,425,701. PROCESS OF FREEING METALS FROM COPPER. MATHIAS OVROM SEM, Christiania, Norway, assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway, a Business Entity of Christiania, Norway. Filed Apr. 4, 1919. Serial No. 287,589. 9 Claims. (Cl. 75—17.)

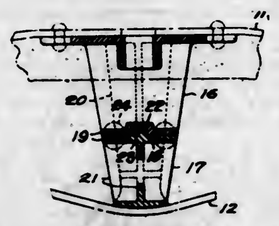
1. The process of freeing metals from copper which comprises heating a metal containing copper to above its melting point and subjecting it to the action of sulphur in the form of a sulphide of the said metal whereby copper sulphide is formed, and separating said sulphide from the metal.

1,425,702. COOKING STOVE. JAMES SHANNON, Canonbury, London, England. Filed Feb. 16, 1922. Serial No. 537,070. 8 Claims. (Cl. 126—36.)



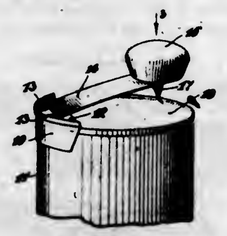
1. The combination with a cooking stove having a grate adapted to burn coal, of an oil vapour burner adapted to be placed in the space in the stove under the grate usually occupied by the dust pan, a perforated heat retaining plate adapted to fit in the bottom of the grate, a hollow cone-shaped grid located above the opening in the heat retaining plate, and a plurality of heat retaining balls located around and over said grid.

1,425,703. REPAIR KING POST FOR BOLSTERS. ROSS O. SHAW, Montreal, Quebec, Canada, assignor to Canadian Car & Foundry Company, Limited, Montreal, Canada. Filed Nov. 23, 1920. Serial No. 426,030. 17 Claims. (Cl. 105—229.)



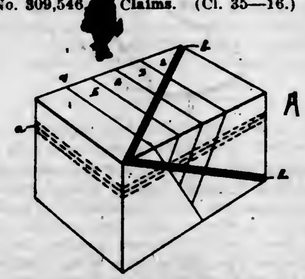
1. A king post comprising a body divided transversely into a pair of superimposed parts meeting along a line inclined with respect to the axis of the post and extending entirely across the post.

1,425,704. CAN OPENER. FRANK P. SHEK, Brooklyn, N. Y. Filed May 17, 1921. Serial No. 470,351. 3 Claims. (Cl. 30—3.)



1. In a can opener, in combination, a segmental guide capable of placement around a portion of the edge of a can, a resilient arm fixedly attached to the guide, a downwardly extended punch carried by the arm and a knob carried by the arm above the punch.

1,425,705. GEOLOGICAL-FAULT GUIDE. WILLIAM H. SHEPPARD, San Ffaucisco, Calif. Filed July 9, 1919. Serial No. 309,546. [illegible] Claims. (Cl. 35—16.)

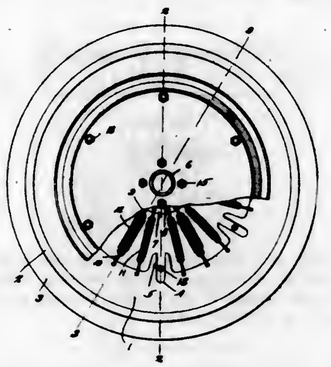


1. A device of the character described, comprising a block adapted to represent fault planes in geological formations, said block being divided into a plurality of oblique-angled sub-members.

1,425,706. SPRING WHEEL. LEON WM. SIMMONS, Forest Lake, Minn. Filed Aug. 13, 1921. Serial No. 491,992. 2 Claims. (Cl. 152—52.)

1. In a spring wheel, a hub; a wheel body; means for guiding the wheel body for sliding movement trans-

versely of the hub; and first and second springs connecting the wheel body with the hub, the first springs being



normally active, the second springs being normally slack, the second springs being elongated after the first springs have been stretched beyond a predetermined point.

1,425,707. HOLDER FOR CONTAINERS. HARRY M. SMITH, Seattle, Wash. Filed July 7, 1921. Serial No. 483,036. 2 Claims. (Cl. 65—61.)



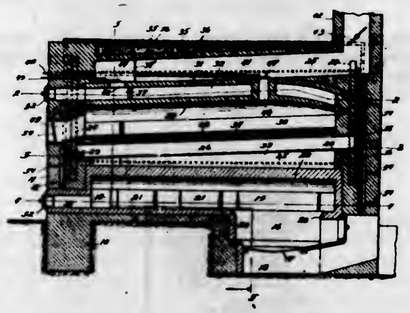
1. A holder for milk cans and the like comprising a body including a back member, spring clips projected horizontally from the said back member, a handle on the back member, a bottom plate that extends horizontally from the lower end of the back member, the said clips, the handle and the bottom plate being relatively fixedly joined to the back member, a top member hinged to normally swing to its closed position, the said top member being adapted to fit closely down onto the container sustained by the holder and having a pair of diametrically oppositely disposed container top penetrating prongs, the said prongs being transversely disposed with respect to the holder clip members whereby to form a pair of diametrically oppositely disposed apertures in the can top adjacent its outer or rim edge, the said prongs each having a straight surface facing the rim of the top member and a tapering semi-circular surface the latter surface and the straight surface terminating in a point.

1,425,708. VALVE. RICHARD SPRINGBORN, Cleveland, Ohio. Filed Nov. 6, 1919. Serial No. 336,004. 8 Claims. (Cl. 251—47.)



3. Valve operating mechanism, comprising a bonnet adapted for attachment to a valve body, a valve and valve stem, rotatable valve stem driving means in sealing relation with the bonnet and having a portion extending to the outside thereof, two seat members surrounding the valve stem, a compression spring between and seated on said members, one of said members being arranged to yieldingly hold the driving means in sealing relation with the bonnet, interlocking connections between said valve stem and seat members whereby they are held against relative rotation when assembled, and interlocking connections between one of said seat members and the bonnet to prevent relative rotation therebetween.

1,425,709. BAKE OVEN. HENRY FREDRICK SOMMER, Kansas City, Mo. Filed Mar. 22, 1920. Serial No. 367,619. 10 Claims. (Cl. 107—55.)

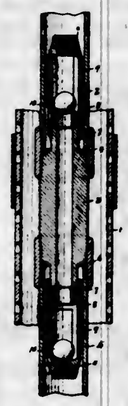


1. In a bake oven, a wall structure comprising successive layers of material in superposed relation, and layers of reinforcing material interposed at intervals between said first layers of material, said reinforcing material comprising metal fabric having the lines of the fabric extending directly transversely and longitudinally, respectively, of the wall.

1,425,710. STANDING VALVE FOR PUMPS. ROY M. STAFFORD, Sour Lake, Tex., assignor to Lake Tool Company, Hardin County, Tex. Filed June 28, 1921. Serial No. 481,133. 3 Claims. (Cl. 251—156.)

1. A standing valve including a tubular nipple whose ends are reduced forming necks, a reversible valve seat

carried by either neck, a valve crown screwed onto either neck and securing the seat in position, and a movable



ball valve confined by said crown and co-operating with said seat.

1,425,711. BUTTER-PRINT-FORMING MACHINE. RICHARD F. STEWART, Briarcliff Manor, N. Y. Filed Sept. 25, 1918. Serial No. 255,608. 28 Claims. (Cl. 31—65.)



1. In a machine of the class described, the combination of a block-forming box having an inlet, a block-severing device movable past said inlet, a block advancing instrumentality movable past said inlet means to effect a simultaneous retraction of said severing and advancing means, means for giving an independent forward thrust to said severing means, means for forming the blocks into a bar as they are advanced, a cut-off device to sever a print from the bar, means for limiting the forward movement of said bar, a carrier to which the print is delivered and a clutch device operable on movement of said cut-off to stop and start said carrier.

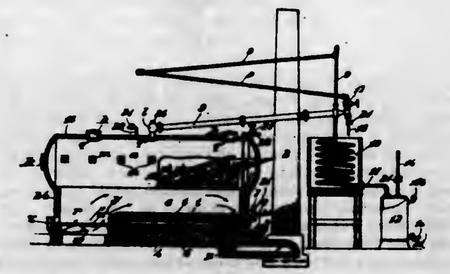
3. In a machine of the class described, the combination of a block-forming box having an inlet, a block-severing device movable past said inlet, a block-advancing instrumentality movable past said inlet, means for actuating said block-advancing instrumentality, means for giving a forward thrust to said severing device prior to each operative movement of said advancing instrumentality, a connection between said advancing instrumentality and said severing device to retract the latter on rearward movement of said advancing instrumentality, and means for releasing said severing device at a pre-determined point in the rearward travel of said advancing instrumentality.

9. In a machine of the class described, the combination of a block-forming box having an inlet, a block-severing device movable past said inlet, a block-advancing instrumentality movable past said inlet, spring means for giving a forward thrust to said severing device, a reciprocating cross-head to actuate said advancing instrumentality, a spring latch on said severing device to engage said cross-head for simultaneous retraction of said severing device and advancing instrumentalities, and means to trip said spring latch and release said spring-operated severing device at a predetermined point in its retraction.

17. A print cut-off for machines of the class described, comprising a swinging and longitudinally movable frame, a cutter depending from said frame, a stop device having an inclined face pivotally mounted on said frame, and a removable print block on said frame between said cut-off and said stop device.

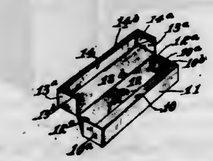
24. A mold-box for machines of the class described, having a throat of different shape in cross-section from that of the mold-box, and means to uniformly displace the material as it passes from said box to said throat and feed it properly to said throat.

1,425,712. DISTILLING PETROLEUM UNDER HIGH PRESSURE. CHARLES E. STOCKFORD, Brooklyn, N. Y., assignor to Standard Oil Company of New York, New York, N. Y., a Corporation of New York. Filed May 8, 1915. Serial No. 26,801. 10 Claims. (Cl. 196—25.)



1. A high pressure petroleum still of horizontal cylindrical form provided with heating means in the form of an open topped fire chamber and an open topped heating flue communicating with said fire chamber by an open topped passage over the bridge wall of the latter, so that the still bottom above said bridge wall and elsewhere over substantially its entire area between the side walls of the furnace is directly exposed to the fire gases flowing from said chamber over said bridge wall through said flue, said still being so disposed as to leave between the bottom thereof and the top of the bridge wall a distance of upwards of a third of the diameter of the still, substantially as described.

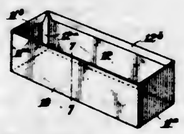
1,425,713. CONTAINER STRUCTURE. JOHN STOGDELL STOKES, Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 9, 1918. Serial No. 249,086. 7 Claims. (Cl. 229—16.)



1. A container formed from a single blank of foldable material, said blank being folded to provide two similar compartments, each including bottom, side and end walls permanently maintained in a set-up condition by inte-

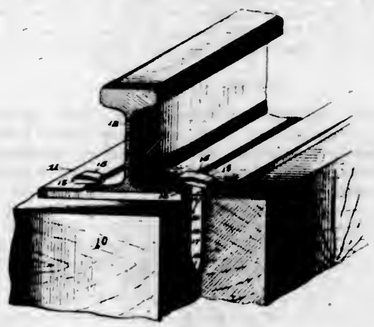
gral portions of the blank which are attached to walls of the compartments, one of the said compartments serving to receive a commodity and the other constituting a telescopic cover therefor; the said compartments being united by an intermediate portion of the blank which operates to permit the set-up compartments to be opened out each with its bottom wall in the plane of the said intermediate portion, whereby a tray-like structure is provided, the said intermediate portion serving to form one of the side walls of the commodity receiving portion when the two compartments are in telescoping relation; the intermediate portion being disconnected from the end walls of the telescoping cover so as to permit the telescoping cover to be rotated entirely out of telescoping position with the intermediate portion retaining its position as the side wall of the commodity compartment.

1,425,714. CONTAINER STRUCTURE. JOHN STOGDELL STOKES, Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 3, 1918. Serial No. 226,429. 1 Claim. (Cl. 229—30.)



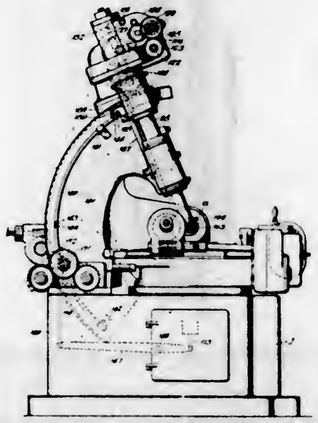
A container or box part consisting of a single sheet of relatively thin and flexible paper having in itself insufficient stability for the designated service, said sheet being cut into a blank having a bottom section and integral front and rear wall sections and end wing sections, narrow margin-reinforcing flaps extending from free edges of the end wing and wall sections and narrow corner-reinforcing flaps extending from other free edges of said sections, the blank being folded into box form with said corner-reinforcing flaps adhesively secured to marginal portions of adjacent sections and with said margin-reinforcing flaps turned down and adhesively secured to marginal portions of the respective sections providing integral corner and margin-reinforcements imparting sufficient stability for container use.

1,425,715. RAILROAD SPIKE. WALTER W. STRYKES, deceased, late of Dayton, Ohio, by Edward T. Jones, administrator, Dayton, Ohio. Filed Apr. 18, 1922. Serial No. 555,349. 3 Claims. (Cl. 238—295.)



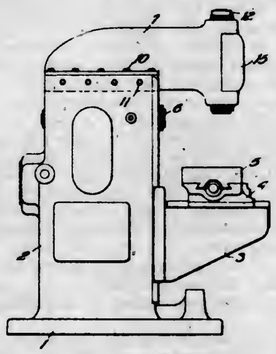
1. A railroad spike having opposite flat sides and formed on such sides with projecting cam lugs situated in position to engage against the under side of the rail supporting plate when the spike is in its final position, the cam faces of said lugs being adapted to cause a turning movement of the spike on its longitudinal axis as it is driven into place.

1,425,716. INDEX MECHANISM. GUSTAF D. SUNDSTRAND, Rockford, Ill., assignor to Rockford Tool Company, Rockford, Ill., a Corporation of Illinois. Original application filed Dec. 1, 1916, Serial No. 134,280. Divided and this application filed June 29, 1917. Serial No. 177,782. 15 Claims. (Cl. 90—56.)



1. An indexing device having, in combination, a drum member operatively connected to an indexable member; a dog member pivotally carried by said drum, an actuating shaft; a ratchet member operatively connected to said actuating shaft; and means for operatively associating said dog and ratchet members comprising a spring-pressed finger secured to said dog member, a spring-pressed pivotally-mounted hook member secured to said finger and withholding said dog member from the ratchet, rocking means for releasing said hook member, and means for withholding said hook member comprising a plurality of disk members operatively connected to said drum and rotatable thereby, said disk members having a plurality of registering notches, and a pin member carried by said hook member seatable in said registering notches for restoring said engageable hook member.

1,425,717. MILLING MACHINE. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Rockford Milling Machine Company, Rockford, Ill., a Corporation of Illinois. Filed May 3, 1919. Serial No. 294,512. 12 Claims. (Cl. 90—19.)



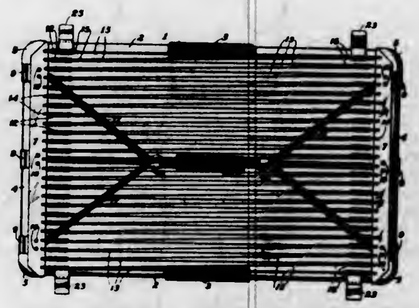
1. A milling machine having, in combination, a column, an adjustable support for the work, a live spindle in said column, an arm projecting from the end of said column, a second live spindle in said arm, and means including readily replaceable change speed gears for driving said second spindle from said first mentioned spindle.

1,425,718. TUBULAR STRUCTURE. JULIUS L. SUASSMAN, New York, N. Y. Filed May 21, 1921. Serial No. 471,354. 7 Claims. (Cl. 5—4.)



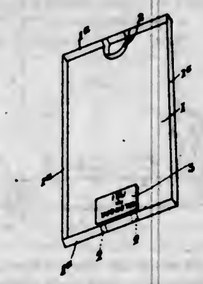
1. The combination of a main member provided with a lengthwise extending groove, a plurality of auxiliary members having the ends extending into said groove and means fitted into said groove whereby said auxiliary members are spaced apart.

1,425,719. BEDSPRING APPARATUS. JOHN B. SWAN, JOHN A. ROGERS, and GLENN W. JACKSON, Gladstone, Mich. Filed May 28, 1921. Serial No. 473,282. 5 Claims. (Cl. 5—69.)



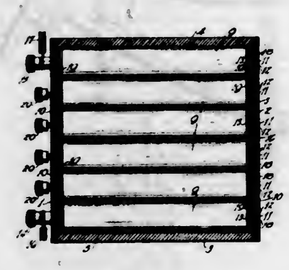
1. In an apparatus of the class described, the combination of a main frame, end frames positioned around portions of the main frame, each end frame comprising transversely extending top and bottom plates, yokes connected to said top and bottom plates and extending around portions of the main frame, and mattress-supporting and tightening devices connected to said plates of the end frames.

1,425,720. BOX, FOLDER, AND LIKE CONTAINER. GEORGE BRASSFIELD TAYLOR, Belfast, Ireland. Filed June 20, 1921. Serial No. 478,967. 5 Claims. (Cl. 206—46.)



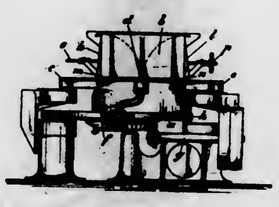
1. A new article of manufacture comprising, in combination, a top for a container adapted to hold handkerchiefs, gloves and like articles, a calendar flexibly attached to one end thereof, and a flexible means at the other end for suspending the top and calendar.

1,425,721. BATTERY CONTAINER. ROY WILLIAM TAYLOR, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,365. 3 Claims. (Cl. 204—53.)



1. A battery container comprising a casing, a plurality of batteries disposed in said casing, fixed contact screws disposed along one side of said casing and engaging the ends of said batteries adjacent thereto, a plurality of manually adjustable contact screws disposed along the other side of said casing and being adapted to engage the other ends of said batteries whereby said batteries are positively secured in place, terminals carried by said container, and electrical conducting plates carried by said first and second named contact screws for connecting said batteries in series with said terminals.

1,425,722. TEA-LEAF-ROLLING MACHINE. HENDRIK ARIE TEMPELAAR, Tandjong-Karang, Sumatra. Filed Mar. 30, 1921. Serial No. 457,134. 3 Claims. (Cl. 99—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

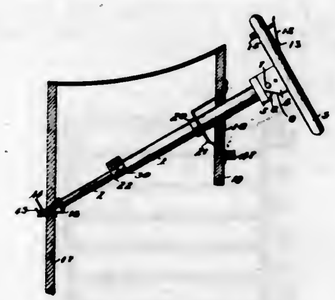


1. In a tea leaf rolling machine, the combination with a movable table and an open bottomed receptacle cooperating with the same, of pivotally mounted plates arranged at opposite sides of the receptacle, and means for moving the free ends of said plates towards and away from one another.

1,425,723. STEERING DEVICE FOR MOTOR VEHICLES. WILLIAM BAILEY THOMAS, Jacksonville, Fla. Filed Mar. 30, 1920. Serial No. 369,916. 5 Claims. (Cl. 74—89.)

3. A steering device for motor vehicles, comprising a steering shaft consisting of telescoping sections, a split sleeve carried by one of said sections and slidable over the other of said sections, said sleeve having lateral extensions adjacent said split, a brake pivoted to the ex-

tensions of said sleeve and operable through the split of said sleeve to engage the other of said sections and having yoke arms, and operating means including links pivotally connected to said yoke arms.



1,425,724. SAFETY LOCK JOINT. ELVIN TILTON, Encampment, Wyo., assignor, by mesne assignments, to Pennsylvania-Kentucky Oil and Gasoline Refining Company, Wheeling, W. Va., a Corporation of Delaware. Filed Apr. 11, 1921. Serial No. 460,335. 8 Claims. (Cl. 279—100.)



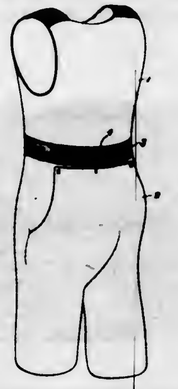
1. A safety joint for mutually screw threaded members comprising an integral locking rod having a screw threaded connection in one of said members the threads of which are opposite to those of the members themselves, said locking rod being provided with a slot arranged to register with an orifice in the second screw threaded member during matching of the joint, means passing through said slot and orifice whereby the locking rod may be held to rotate with said second member and moved longitudinally to maintain said slot and orifice in register upon matching of the joint, and means for securing the locking rod to said second member arranged to prevent longitudinal movement of the rod under any tendency toward unscrewing of the joint.

1,425,725. LOCKING WASHER. PAUL AIMÉ TREFIER, Paris, France. Filed Mar. 31, 1920. Serial No. 370,311. 1 Claim. (Cl. 151—38.)



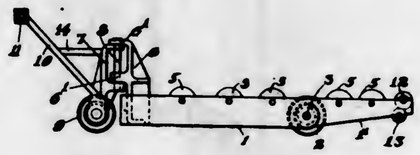
A locking washer comprising a series of conical elastic plates destined to be placed under a nut to prevent the unscrewing the same, said plates being engaged one in the other and centered on a sleeve having flanges engaging the beveled faces of the outermost plates.

1,425,726. UNDERWEAR GARMENT. CYRUS M. WALKER, Kansas City, Mo. Filed Aug. 5, 1921. Serial No. 489,950. 2 Claims. (Cl. 2—144.)



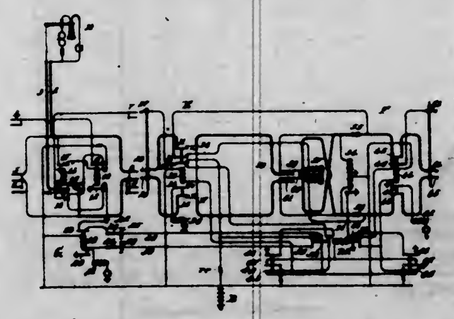
1. In combination with a garment comprising upper and lower members and a connecting waist band, an elastic insert having its wales extending across the waist band and having its end edges secured to the garment at the upper and lower edges of the band and having a fullness between its ends, the end edges of the insert being held secured in a condition of expansion at approximately the elastic limit of said insert.

1,425,727. TRUCK. GEORGE PETER WALLSTROM, Montpelier, Vt., assignor to Lane Manufacturing Company, Montpelier, Vt., a Corporation of Vermont. Filed June 27, 1921. Serial No. 480,522. 8 Claims. (Cl. 214—65.)



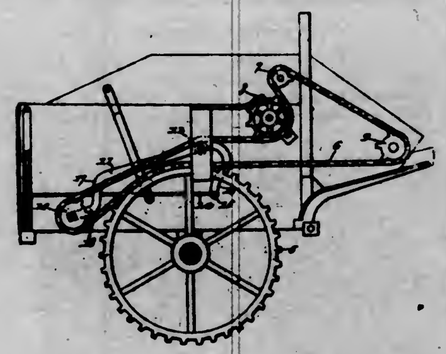
1. In a tilting truck of the class described, a wheeled support between its ends, a rotatable delivery device at the rear of the truck and exposed above the upper surface of the same, and a rotatable driver in frictional contact with said delivery device and exposed below said truck in normal elevation above the floor, said truck being tiltable on its said wheel support to bring said driver into contact with the floor.

1,425,728. TELEPHONE-EXCHANGE SYSTEM. HARRY G. WEBSTER, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company, a Corporation of Illinois. Filed Mar. 9, 1908. Serial No. 419,981. 142 Claims. (Cl. 179—27.)



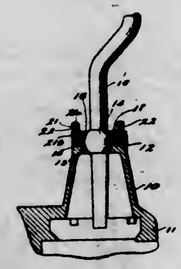
1. A telephone system comprising telephone lines terminating in a plurality of exchanges, a switchboard having operators' positions, two-wire trunks, each having a maximum of two conductors at one point at least in its length, automatic means at said plurality of exchanges for extending calling lines over such two-wire trunks to said switchboard and displaying signals thereat, operators' impulse controlling means at said switchboard, and selective switches operable responsive to said means in completing connections from calling lines to called lines, said connections including two-wire trunks for interconnecting telephone lines of the different exchanges.

1,425,729. MANURE SPREADER. CHARLES WILLIAM WRIGHTMAN, Carlisle, Pa., assignor of one-half to John Alloway McClain, Carlisle, Pa. Filed Dec. 19, 1921. Serial No. 523,509. 1 Claim. (Cl. 74—21.)



In a drive mechanism for manure spreaders, a drive wheel, a drive chain adapted to engage the periphery of the drive wheel for operating the distributor or spreader, an arm oscillatively mounted above the drive wheel, means connected to the arm on one side of the pivot for oscillating the arm, the said arm having a depending portion and an extension on the other side of the pivot, the said depending portion having a spring action with relation to the drive wheel, and a wheel rotatably mounted on the extension of the arm engaged by the drive chain and adapted to move the drive chain toward and away from the drive wheel as the said arm is oscillated.

1,425,730. BALL AND SOCKET DEVICE. HOWARD FERRIS WHITTED, Santa Paula, Calif. Filed Feb. 21, 1921. Serial No. 446,748. 3 Claims. (Cl. 287—88.)



3. In a device of the character described, a socket, a ball operating in said socket, a cap for securing the ball in position in the socket, cooperating guide means between the cap and the socket for preventing lateral displacement of the cap and for constraining the cap to axial movement toward and away from the socket, and means for resiliently resisting movement of the cap axially away from said socket.

1,425,731. HEELLESS OVERSHOE. MARIE VAUGHAN WILDS, New York, N. Y. Filed June 4, 1921. Serial No. 474,932. 1 Claim. (Cl. 36—6.)

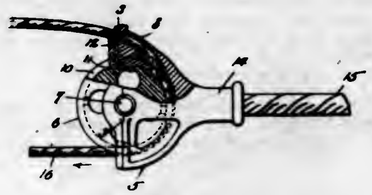


An overshoe consisting of a sole portion and a dished-out top portion, and provided with an attachment for holding it in place, the said attachment presenting two straps secured to and extending from the rear upper corners of the top portion and adapted to be passed over the heel and around the ankle and detachably secured together in that condition.

1,425,732. CABLE LOCK. JAMES C. WILLIAMSON, Cordele, Ga. Filed Mar. 7, 1921, Serial No. 450,198. Renewed Jan. 3, 1922. Serial No. 526,811. 1 Claim. (Cl. 24—126.)

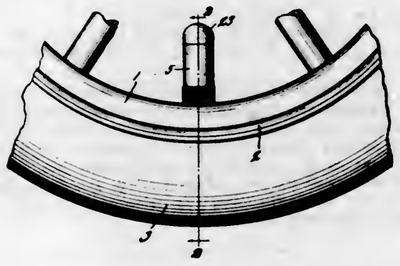
In combination with a pulley, pulley housing and cable operating over the pulley, said pulley having a peripheral groove and having openings extending therethrough, a wedge-shaped locking member having a lug,

said lug adapted to be positioned in one of the openings to restrict movement of the wedge with respect to the



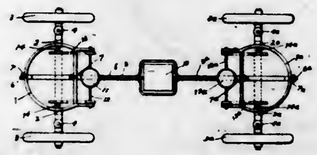
pulley, and said wedge-shaped members adapted to force the cable into engagement with the inner wall of the housing.

1,425,733. DEFLATED-TIRE SIGNAL. HUGH A. WILSON, Mankato, Minn. Filed May 13, 1921. Serial No. 469,290. 1 Claim. (Cl. 116—34.)



In a deflated tire signal, a guide; an abutment disk in the guide; a resonant diaphragm in the guide; means for securing the diaphragm and the disk to the guide; a plunger slidable in the guide and passing through the abutment disk and the diaphragm, the plunger having teeth engaging the diaphragm; an abutment on the plunger; and a compression spring interposed between the abutment and the abutment disk.

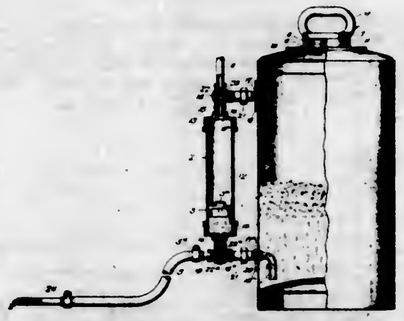
1,425,734. RUNNING GEAR. CHARLES O. WYMAN, Anoka, Minn. Filed Mar. 23, 1921. Serial No. 454,965. 3 Claims. (Cl. 180—43.)



1. In a vehicle running gear of the automobile type, a carrying axle bent down in its center with a framed platform mounted on its respective ends, in combination with a reach crooked down under said platform and pivotally mounted on the same.

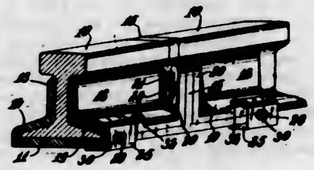
1,425,735. MEASURING AND DISCHARGING APPARATUS. LUCIEN I. YEOMANS, Chicago, Ill., assignor to Mann Corporation, Kankakee, Ill., a Corporation of Illinois. Filed Aug. 11. 1917. Serial No. 185,638. 1 Claim. (Cl. 221—110.)

An apparatus for measuring and discharging grease or the like including a closed container, a measuring receptacle having a piston therein, an air inlet pipe, a grease outlet, a valve casing connected with one end of the measuring receptacle, the air-supply pipe and one end of the container, and a valve casing connected with the



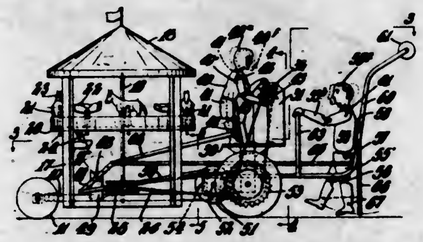
other end of the measuring receptacle, the grease outlet and the opposite end of the container, each of said valve casings having a valve member therein operable to establish communication between any two of its connections.

1,425,736. RAIL JOINT. JOHN ZELINSKY, Portsmouth, Va. Filed Feb. 1, 1922. Serial No. 533,170. 4 Claims. (Cl. 238—225.)



1. In combination with a pair of rail ends, a chair-plate element presenting between its ends a transverse ear fitting between the rail ends, and a pair of fish-plate elements abutting against said ear, said fish-plate elements having at their adjacent ends transverse webs engaging said ear on opposite sides thereof.
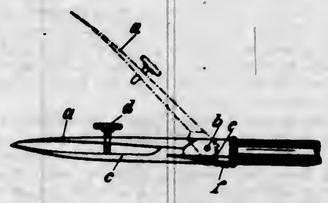
1,425,737. MOUNTED COMBINATION TOY AND CAROUSEL. BÉLA ZSARNAY, Belleville, N. J., assignor of one-half to Abraham Lewis, Newark, N. J. Filed May 26, 1921. Serial No. 472,686. 3 Claims. (Cl. 46—45.)



1. A toy comprising a frame, wheels on which said frame is mounted, a music box device supported on said frame, a pair of mannikins supported on said frame, one of said mannikins having an arm formed with a hinge-joint at the elbow and pivotally attached to the body of

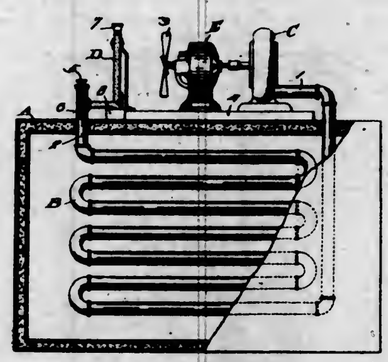
the mannikin, the other mannikin having its legs pivotally attached to its body, and means whereby the free end of the said arm is moved in a circular path in similitude of operating said music box device, and the said legs are oscillated in a similitude of walking.

1,425,738. FOLDING DRAWING PEN. LUDWIG ZWENG, Pfronten-Steinach, Germany. Filed May 28, 1920. Serial No. 385,009. 1 Claim. (Cl. 120—109.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A drawing pen having a fixed blade provided at its inner end, on its outer side with a spring tongue, and a pivoted blade the inner end of which has edges arranged at an angle to each other and also arranged to bear on said spring tongue to hold said pivoted blade in either open or closed position.

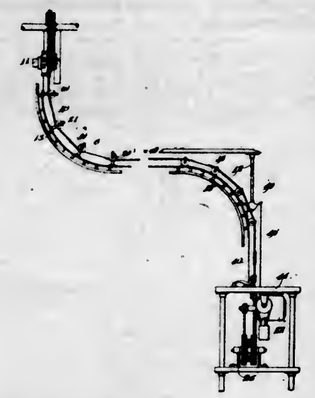
1,425,739. COOLING APPARATUS. WARREN STANLEY ADAMS, Buffalo, N. Y. Filed Oct. 17, 1919. Serial No. 331,445. 1 Claim. (Cl. 62—97.)



The combination with a refrigerator box, of a cooling coil within the box, a radiator arranged outside of the box and connected to one end of said coil, said radiator having absorbent material thereon, means for supplying moisture to said material, a pump adapted to draw air through said radiator and coil successively, means for restricting the flow of air into said coil, a motor for operating said pump, and a fan operated by the motor and adapted to create an air draft past the radiator.

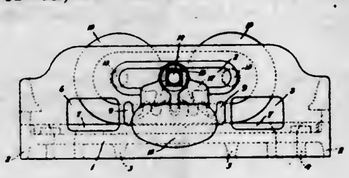
1,425,740. OVERHEAD CARRIER SYSTEM. JAMES L. BALDWIN, Chicago, Ill. Filed Jan. 24, 1922. Serial No. 531,471. 5 Claims. (Cl. 186—14.)

1. An overhead carrier system comprising a sending station, a receiving station, a wire track between the stations, an endless belt having its runs along the course of the track, power means for operating the belt, a carrier propelled by the belt along the track, a manually-



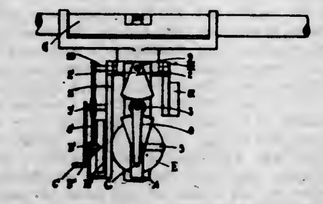
operated starting control for the power means, and an automatic stopping control for the latter operative when the carrier reaches the station of its destination.

1,425,741. ROLLER SIDE BEARING. FRANKLIN L. BARNUM, Chicago, Ill., assignor to Standard Car Truck Company, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 22, 1920. Serial No. 425,661. 9 Claims. (Cl. 64—64.)



9. A side bearing for railway cars comprising a housing, a plurality of bearing rollers supported for movement therein, means connecting said rollers and a counterweight mounted for bodily and swinging movements upon movement of said rollers to return said rollers to their normal position.

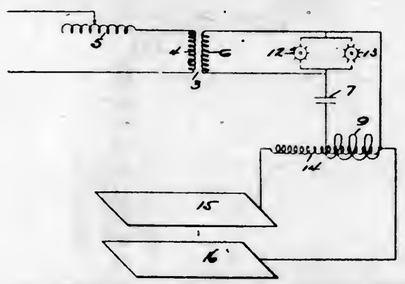
1,425,742. RANGE FINDER AND LIKE INSTRUMENT FOR USE ON SHIPBOARD. ARCHIBALD BARR and WILLIAM STROUD, Anniesland, Glasgow, Scotland, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Filed Oct. 13, 1921. Serial No. 507,473. 12 Claims. (Cl. 33—46.)



1. A support comprising a stand, a carrier on the stand capable of angular adjustment about a horizontal axis, a horizontality indicator for indicating the hori-

sontal appertaining to the said horizontal axis, and hand actuated mechanism for imparting counter-motions to the carrier about the horizontal axis so as to bring the carrier into conformity with the horizontality indicator, for the purposes set forth.

1,425,743. APPARATUS FOR PRODUCING THERAPEUTICAL EFFECTS. SYDNEY NORTON BARUCH, San Francisco, Calif. Filed May 14, 1919. Serial No. 297,102. 11 Claims. (Cl. 174—177.)



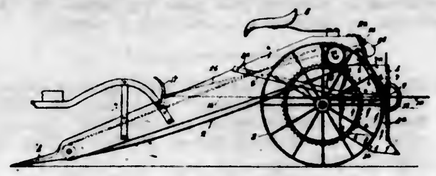
1. A therapeutic apparatus of the character described comprising a pair of condenser plates, a secondary induction coil connected at its opposite ends to said plates, a primary induction coil inductively connected to said secondary coil and means for producing a plurality of high frequency currents out of phase with each other in said coils.

1,425,744. PRUNING SHEARS. AMIEL BRATSCHIE, New Castle, Pa. Filed Feb. 26, 1919. Serial No. 279,261. 3 Claims. (Cl. 30—11.)



1. A pruning shears comprising a pole or handle, a shank at the outer end of the handle, an oscillating cutting blade, pivoted at one end to the shank, a relatively stationary cutting member provided at its outer end with an inwardly and laterally extending hook, disposed in a direction toward the shank, a link connecting the inner end of the relatively stationary cutting member with the shank of the handle, an operating lever, pivoted to the inner end of the handle and a connecting rod between the last mentioned cutting member and said operating lever, the outer end of the oscillating blade being pivoted to the shank of the relatively stationary cutting member and the cutting members and associated parts being in folded position at the initial stage of the cutting operation, the cutting edge of the blade being located between the pivot points of the blade.

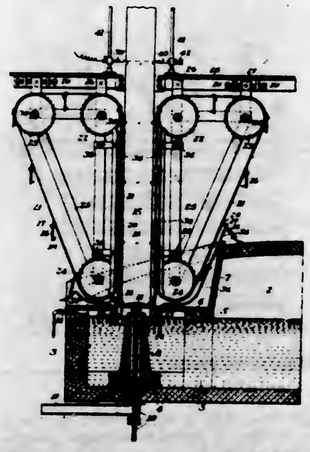
1,425,745. POTATO CARRIER FOR POTATO DIGGERS. WILLIAM BROECKER, Minneapolis, Minn. Filed Feb. 28, 1921. Serial No. 448,660. 9 Claims. (Cl. 214—6.)



1. In a power potato digger comprising an elevating means, a carrier for the potatoes comprising a hopper structure positioned to receive the potatoes from the elevating means, a revoluble grate bottom in said hopper and means adapted to be actuated by the operator for moving said bottom to discharge the potatoes from said hopper at suitable intervals.

9. A carrier for a potato digger comprising a hopper structure supported on said digger in position to receive potatoes discharged thereby, angularly arranged frames radiating from and rotating about a shaft located at one side of the hopper, means in said hopper for successively supporting said frames in substantially horizontal position, and a pair of leaf springs supported in said hopper positioned to contact with said frames when the same are rotated, one of said springs being of light structure and acting to prevent reverse rotation of said frames and the other spring being of heavy structure and adapted to momentarily support said frame until they are moved into position against the stop.

1,425,746. METHOD OF AND APPARATUS FOR DRAWING GLASS. CLARENCE P. BYRNES, Sewickley, Pa. Filed Jan. 28, 1918. Serial No. 214,065. 25 Claims. (Cl. 49—17.1)



6. In the drawing of hollow glass articles from a tank or forehearth, the steps consisting in feeding air upwardly through the bath, baffling the air to retain distending pressure for the hollow glass body while allowing baffled air to pass upwardly through the hollow body, and drawing the glass body upwardly from within a floating ring by engaging its sides to continuously lift it.

22. In apparatus for drawing hollow glass bodies upwardly from a bath of molten glass, deforming means, and an upper section-removing device arranged to engage the deformed portions, the latter device having connections arranged to lift the severed section from the upwardly moving hollow glass body.

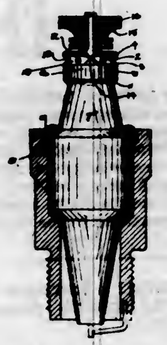
25. In apparatus for drawing a continuous glass cylinder, a set of traveling mechanisms having means for

indenting and gripping the cylinder and continuously moving it upwardly, at least one of said mechanisms being adjustable toward and from the cylinder.

1,425,747. PHOSPHATIC FERTILIZER MATERIAL AND PROCESS OF MAKING THE SAME. LEONARD R. COATES, Laurel, Md. Filed Sept. 1, 1921. Serial No. 497,660. 7 Claims. (Cl. 71—7.)

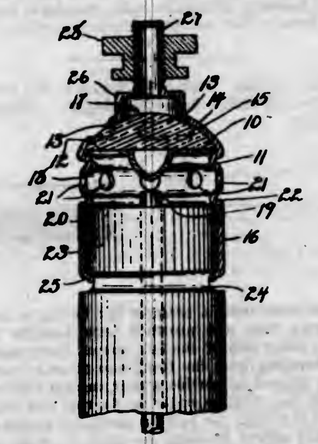
1. A process which comprises mixing material containing superphosphate with a material containing an alkaline calcium compound, wetting the mixture and producing in such product, a physical condition adapted for being strewn as fertilizer.

1,425,748. VISIBLE-SPARK PLUG. ARTHUR T. CRANE, Waterbury, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed June 24, 1920. Serial No. 391,294. 3 Claims. (Cl. 123—169.)



1. A visible spark-plug having a shell, an insulating core, an electrode therein, a terminal-cap positioned upon the core to produce a spark-chamber which is pierced by lateral sight-openings, and a sparking-disk mounted by its edge in the said cap at a point above the said sight-openings and furnishing a sparking-point in line with the said electrode.

1,425,749. VISIBLE SPARK PLUG. ARTHUR T. CRANE, Waterbury, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed Mar. 5, 1921. Serial No. 449,780. 5 Claims. (Cl. 123—169.)



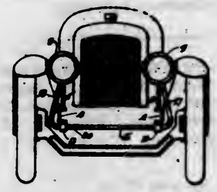
1. A visible spark-plug having its cap provided with a lens-chamber and with observation-openings leading thereinto, a lens in the said chamber, and a sparking-disk formed with observation-openings aligned with those in the cap, the said observation-openings of the lens-chamber and sparking-disk being located at one side of the longitudinal axis of the plug, in which direction the sparking takes place.

1,425,750. COMBINED KNIFE AND FORK. JAMES H. CRAWFORD, Deadwood, S. Dak. Filed Dec. 20, 1920. Serial No. 431,991. 9 Claims. (Cl. 30—9.)



1. A device of the class described including articles of utility of equal length each having one end thereof provided with means adapted to engage the opposite end of an adjacent article for holding the articles in assembled position.

1,425,751. DIRIGIBLE HEADLIGHT. WILLIS WILLARD DART, Ogleaby, Okla. Filed Oct. 1, 1921. Serial No. 504,668. 2 Claims. (Cl. 240—62.)

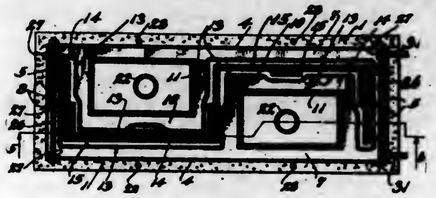


1. A dirigible headlight mechanism embodying a pair of headlights, each headlight having an arm projecting from the rear portion thereof, said arm being pivotally mounted substantially at its central portion on a support for movement in a horizontal plane, the end of said arm being provided with an opening, a substantially U-shaped actuating member mounted on the chassis of an automobile, the ends of said member being bifurcated, fastening means extending through said bifurcations and the openings in the ends of said arms, and means for connecting the actuating member to the steering mechanism of the automobile.

1,425,752. ELECTROLYTIC CELL. ALFRED VICTOR DAVIS, Elkton, Md. Filed June 7, 1921. Serial No. 475,675. 18 Claims. (Cl. 204—58.)

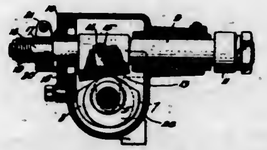
1. An electrolytic cell comprising an anode and a cathode arranged in spaced relation to provide an anode chamber therebetween, said chamber opening freely into the cell at its upper and lower ends, and means for supplying

an electrolyte solution to said cell and automatically maintaining the level thereof above the upper end of said chamber as the electrolytic action takes place in said chamber



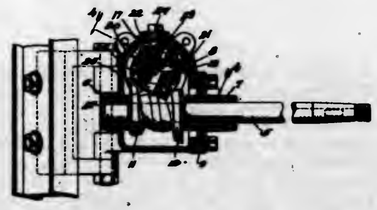
whereby to produce a thermo-siphonic circulation of the electrolyte upwardly in the chamber and downwardly in the cell.

1,425,753. STEERING MECHANISM FOR AUTOMOBILES. HARRY M. DENYES, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 17, 1921. Serial No. 508,343. 6 Claims. (Cl. 74—79.)



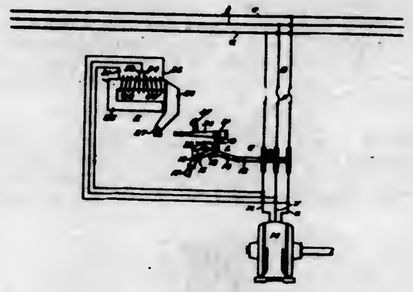
1. In steering mechanism of the class described, a rotatable steering shaft; two oppositely arranged cam members carried by said shaft and located adjacent the lower end thereof; an oscillating shaft located adjacent said cams and extending transverse to said steering shaft, and which shaft is provided with a bearing surface which is inclined relative to the axis thereof and against which surface both the cams aforesaid bear; and means for moving said oscillating shaft along its axis to thereby adjust said bearing surface relative to said cams.

1,425,754. STEERING MECHANISM FOR MOTOR VEHICLES. HARRY M. DENYES, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 17, 1921. Serial No. 508,344. 5 Claims. (Cl. 74—79.)



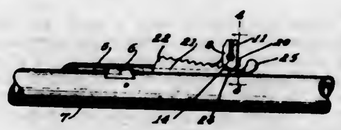
1. In a steering mechanism of the class described, a rotatable steering shaft; two oppositely arranged cam members carried by said shaft and located adjacent the lower end thereof; an oscillating shaft located adjacent said cams and extending transverse to said steering shaft; a bearing member carried by said oscillating shaft and with which both the cam members aforesaid engage, and which bearing member is located between the axes of said steering shaft and said oscillating shaft; and means for moving said bearing member transverse to said oscillating shaft and toward and from said cam members.

1,425,755. POLYPHASE CONTROLLING DEVICE. EDWARD I. DEUTSCH, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed May 9, 1917. Serial No. 167,827. Renewed Apr. 7, 1921. Serial No. 459,811. 20 Claims. (Cl. 175—294.)



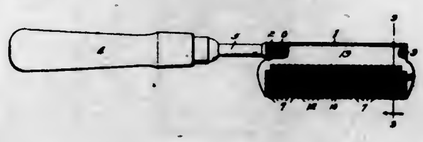
1. In a controlling device for polyphase electric circuits, a controlling element, and means for causing actuation of said controlling element when the phase relations are different than a predetermined relation, said means including an energizing means whereby an appreciable effective normal flux is produced having windings for producing a vectorial addition in substantially a single direction of polyphase effects proportional to the line voltages of said polyphase circuit.

1,425,756. RIFLE SIGHT. ALEXANDER DICKEY, Honeyville, Utah. Filed Feb. 13, 1922. Serial No. 536,174. 3 Claims. (Cl. 33—53.)



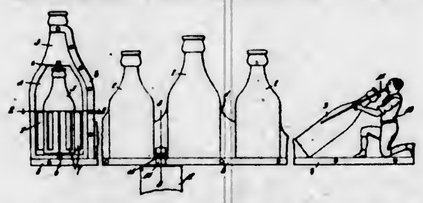
1. In a sight for fire arms, a body portion having a head formed at one end thereof, said head having a cut out portion and having a groove formed transversely thereof, laterally adjustable sight members disposed within the groove, a vertically adjustable sight member associated with the laterally adjustable sight members, and an adjustable member disposed under the body portion.

1,425,757. COMB. DAVID K. ECHOLS, St. Louis, Mo. Filed Dec. 30, 1920. Serial No. 434,110. 1 Claim. (Cl. 132—14.)



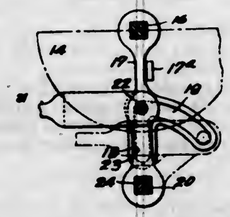
A comb comprising a pressing bar having a transverse convex rear face, and provided with a screw threaded socket at either end of the bar, spaced teeth having side faces converging from the front face of each tooth to the rear face thereof to provide a hair passage between adjacent teeth that will be wider at its rear end than at its front end to permit the hairs to gradually spread apart in leaving the spaces between the teeth, a screw threaded shank receivable in either socket of the bar and a non-heat conducting handle for the shank.

1,425,758. ADVERTISING DEVICE. ROBERT M. FINGER and DEXTER W. LILES, Badin, N. C. Filed Mar. 21, 1922. Serial No. 545,604. 4 Claims. (Cl. 40—126.)



1. An advertising sign comprising a representation of a plurality of containers, one of which is made larger than the others and has an attention attracting element movably mounted therein.

1,425,759. DIRIGIBLE-HEADLIGHT MECHANISM. JOHN GARNAR FLOOD, Quebec, Quebec, Canada. Filed Apr. 23, 1921. Serial No. 464,015. 8 Claims. (Cl. 240—62.)



1. A dirigible headlight mechanism, comprising a pair of rotatable headlight supports, laterally slotted operating levers connected thereto, a connection between said levers engaging normally in corresponding ends of the lever slots and movable in said slots in coacting relation therewith to turn one of the headlights without affecting the other, rockers supporting the connection and an actuating member associated with said connection to move said connection in either of two directions dependent upon which headlight is to be turned.

1,425,760. BUTTONHOOK. NACLE F. FORELY, New York, N. Y. Filed May 15, 1922. Serial No. 561,124. 5 Claims. (Cl. 24—40.)



1. A button-hook comprising a channeled shank having three transversely spaced inturned prongs at the end thereof, the center one of said prongs being removable from operative relation with respect to the other two.

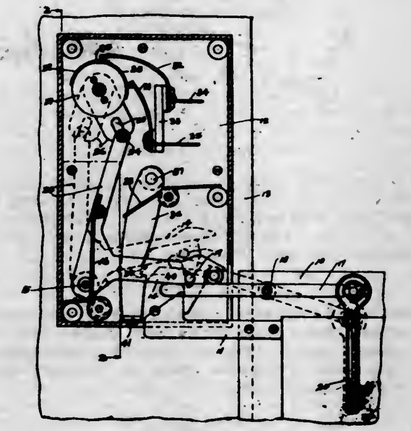
1,425,761. SELF-OPENING UMBRELLA. SAMUEL S. FRETS, Sr., Philadelphia, Pa. Filed Sept. 12, 1921. Serial No. 500,239. 3 Claims. (Cl. 135—44.)

3. In a self opening umbrella, a runner, a movable tip cup, a sleeve connected with the latter and slidable on the runner, said sleeve having on its outer end an inturned flange, a tubular member connected with said runner and having on its outer end an inturned flange, a catch on the stick, said catch having in its side a recess, the walls of which form opposite side shoulders, said recess being adapted to receive both of said inturned flanges, one of which latter is engageable with one of



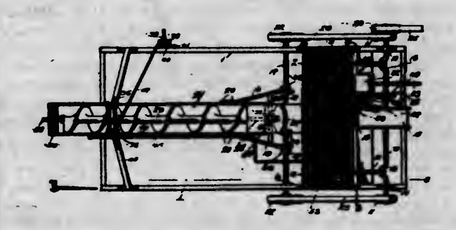
said shoulders, and the other flange is engageable with the opposite shoulder, a head on said runner within said tip cup, and a resilient device interposed between said head and said sleeve of the tip cup.

1,425,762. ELEVATOR-DOOR LOCK. JAMES F. GIBTEN, Chicago, Ill., assignor of one-half to Henry Snow, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,466. 9 Claims. (Cl. 187—81.)



5. A device of the class described comprising a pivotally mounted latch; means with which said latch engages for holding a door against movement; and a rotary electric switch having a pin and groove engagement with said latch for oscillation thereby when the latch is revolved into and out of latching position, substantially as described.

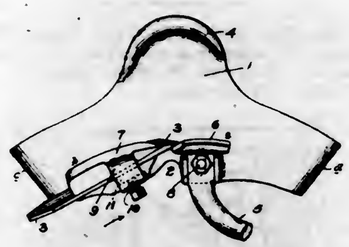
1,425,763. SAND-CLEANING MACHINE. WILLIS A. GOODWIN, Kirksville, Mo. Filed Apr. 2, 1921. Serial No. 458,142. 5 Claims. (Cl. 83—81.)



1. In a machine for the purpose indicated, a frame, a driven shaft mounted therein, a chute mounted on the shaft pivotally for tilting movements radially from the shaft, a screw conveyor mounted for operation axially in said chute and being operatively connected to the shaft, whereby material discharged in the chute may be con-

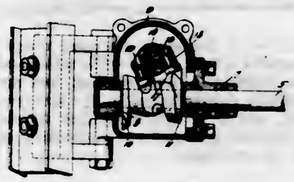
veyed upwardly and discharged at the upper end of the chute, means for supplying water to the chute accessively throughout its length, whereby the sand is propelled upwardly against the water, and the water, dirt, and trash are carried downwardly and discharged at its lower end on the ground, and a separating means including a chute overlying the first chute in alignment therewith for feeding the material into the first chute.

1,425,764. CHAMFERING PLANE. CHARLES H. GROTH, Rochester, Pa. Filed Jan. 14, 1922. Serial No. 529,181. 1 Claim. (Cl. 147—24.)



A chamfering plane comprising a guiding plate to engage the edge of the stave, a transversely convex bottomed sole block projecting from the nether surface of the plate, and a straight edged chamfering blade with an edge in contact with the guiding plate.

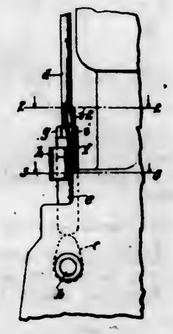
1,425,765. STEERING MECHANISM FOR MOTOR VEHICLES. GEORGE H. HANNUM, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 17, 1921. Serial No. 508,282. 5 Claims. (Cl. 74—79.)



1. In steering mechanism of the class described, a rotatable steering shaft; two oppositely arranged cam members carried by said shaft and located adjacent the lower end thereof; an oscillating shaft located adjacent said cams and extending transverse to said steering shaft; a steering arm carried by said oscillating shaft; a supporting member carried by said oscillating shaft; and two bearing members carried by said supporting member and having flat surfaces adapted to contact one with each of the cam members aforesaid and which surfaces lie in a plane which is fixed relative to the axis of said oscillating shaft.

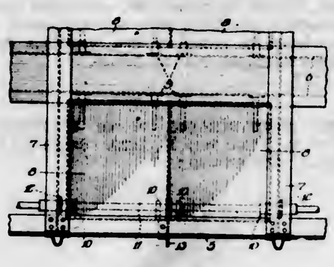
1,425,766. VALVE-TAPPET-SILENCING MECHANISM. VERNON J. HARRIS, Adrian, Mich. Continuation of application Serial No. 439,159, filed Jan. 22, 1921. This application filed July 12, 1922. Serial No. 574,350. 9 Claims. (Cl. 123—90.)

1. In a device of the class described, in combination, a valve push rod, the co-operating cam actuated plunger, a guide lock connecting said plunger and push rod together, a spring guide member shaped so as to partially encircle the push rod resiliently gripping the same so as to be carried thereby, such spring guide member provided with a pair of downwardly extending prongs po-



sitioned one on each side of the plunger, interposed between the guide lock member and the engine casing, said prongs so shaped as to exert yielding pressure on said guide lock to prevent its striking against the engine casing.

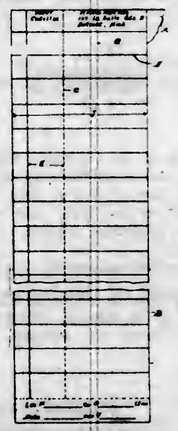
1,425,767. DUMP CAR. HARRY S. HART, Chicago, Ill., assignor to National Dump Car Co., Chicago, Ill., a Corporation of Maine. Filed Aug. 4, 1921. Serial No. 489,701. 7 Claims. (Cl. 105—309.)



7. A car having an underframe comprising cross bearers, a plurality of doors between adjacent cross bearers and means of supporting the adjacent edges of the doors directly from the car frame.

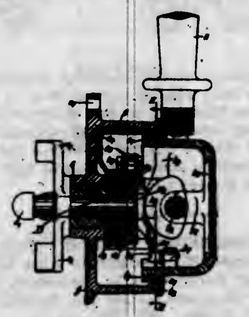
1,425,768. COMBINED ADDRESSING AND LISTING DEVICE. MILTON HARTMAN, Detroit, Mich. Filed Nov. 6, 1920. Serial No. 422,354. 4 Claims. (Cl. 288—1.)

1. In a combined listing and addressing device, a chart having a longitudinally extending separable line portion, selective data located on one side of said separable line portion and the mailing address of the party to whom the selective data applies located on the opposite side of said separable line portion, and in operative relation to the corresponding selective data, said addresses being



arranged in blocks suitable for individual mailing purposes when separated from the adjacent address blocks.

1,425,769. SWITCH. JOHN ARTHUR HIRST and PERCY SMITH BROOK, Chester, England. Filed Sept. 14, 1920. Serial No. 410,275. 9 Claims. (Cl. 94—54.)



1. An electric switch operating mechanism comprising a handle member mounted to be capable of movement in two directions, switch operating connections whereby a step by step movement of said handle in one of said directions operates a switch member from off to on positions and vice versa, switch operating connections whereby movement of said handle in the other of said directions operates another switch member, automatic switch locking means arranged to be brought into action when said handle has completed its full on movement in said first named direction, and means operated by the movement of the handle in said second direction for unlocking said switch locking means.

1,425,770. FUSELAGE PARACHUTE. EDWARD L. HOFFMAN, Fort Slocum, N. Y. Filed May 5, 1921. Serial No. 467,095. 15 Claims. (Cl. 244—21.)



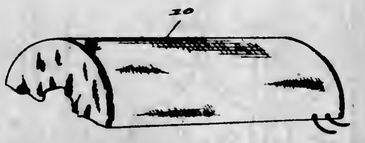
1. In combination, in an aircraft body of a plurality of sections, means operably connecting said sections together, and means operable at the will of the pilot and operated by the resistance of the air to release said connecting means for the purpose described.

1,425,771. PHONOGRAPHIC-DISK-RECORD EJECTOR. EMMETT M. HOWARD, Baltimore, Md., assignor, by mesne assignments, to Frank F. Slocomb, Philadelphia, Pa. Filed Mar. 1, 1918. Serial No. 219,750. Renewed Jan. 27, 1921. Serial No. 440,526. 7 Claims. (Cl. 211—16.)



2. In a phonographic disk record cabinet, a box having its top and bottom provided on their inner surfaces with parallel aligning cuts, partitions of non-abrasive material having their upper and lower ends seated in said cuts, thereby forming closely related parallel, non-abrasive, record holding compartments adapted for the reception of different sized records, a series of oscillatory record supporting ejector levers consisting of straight bars having upper rectilinear faces located at and forming the bottoms of said compartments, a fulcrum rod passing transversely through said levers at the rear of their center of gravity, whereby the forward ends of said levers when a compartment is empty incline downwardly and outwardly to form a tell-tale to indicate an empty compartment, the front underside of each lever then contacting with the bottom of said box, while the rear terminals of said levers when a record is in its rearmost position also contact with the bottom of said box, and a bumper located above said levers in the lower rear portion of said box at the point where the lower inner peripheries of different sized records coincide in a rectilinear line when at rest, said levers having a finger at their rear portions for coaction with the juxtaposed periphery of a record.

1,425,772. BATH-CABINET-SUPPORTING FRAME. FRANK HNILO and JOHN SCHULTS, Cicero, Ill. Filed Mar. 17, 1922. Serial No. 544,618. 3 Claims. (Cl. 4—13.)

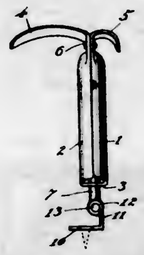


1. A supporting frame for a bath cabinet, comprising arched end and intermediate bars, each of said bars being composed of a pair of hinged sections to permit folding transversely of the frame, a rigid connection between the intermediate bar and one of the end bars, and a slidable connection between said bars and the other end bar.

1,425,773. AUTOMOBILE HOOD CLAMP. JOHN A. HUTH, Cincinnati, Ohio, assignor to Stanley M. Lawson, Cincinnati, Ohio. Filed Nov. 1, 1920. Serial No. 421,002. 7 Claims. (Cl. 292—63.)

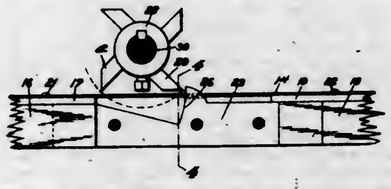
1. A hood clamp for motor vehicles and the like which has a body portion formed of a single strip of metal

bent into a half round shape, with a flat central portion and flat end portions, said strip being bent together to



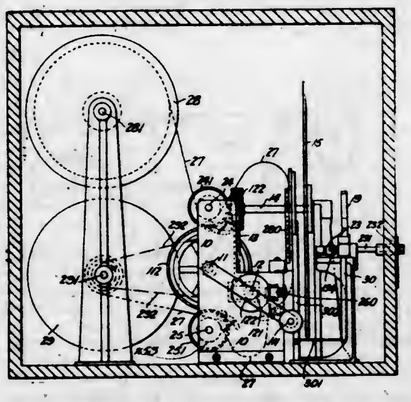
bring the edges of the half round together to form a tubular body and secured in permanent form by the lapping flat ends.

1,425,774. BOX-MAKING MACHINE. RICHARD G. INWOOD, deceased, late of South Bend, Ind., by Mary Cain Inwood, administratrix, South Bend, Ind., assignor to Wirebounds Patents Company, Kittery, Me., a Corporation of Maine. Filed Jan. 10, 1918, Serial No. 211,264. Renewed Feb. 4, 1922. Serial No. 534,259. 57 Claims. (Cl. 1—8.2)



49. A machine for use in making boxes comprising, in combination, work-feeding means, mechanism for applying binding wire to box parts, and wire-severing means operable by movement with the work.

1,425,775. PRODUCTION AND PROJECTION OF PHOTOGRAPHIC RECORDS. BRENDA BEATRICE ANNE JOHNSON, London, England. Filed Nov. 12, 1919. Serial No. 337,515. 6 Claims. (Cl. 88—16.4.)



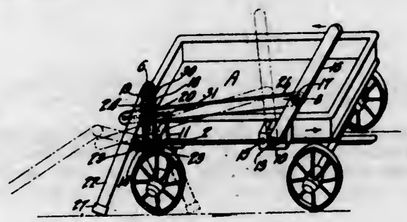
1. In a camera, three lenses comprising a fixed central lens, movable arms at each side of the fixed lens and upon which the other lenses are mounted, a block, a worm for actuating it, and links connecting the arms to the block.

1,425,776. TOILET INSTRUMENT. WILLIAM E. KELLY, Cleveland, Ohio. Filed Dec. 8, 1919. Serial No. 343,320. 4 Claims. (Cl. 128—269.)



1. An apparatus of the character described comprising a case provided with a chamber to hold a lubricant, a tube within said case, a wick in said tube and one end thereof in communication with said lubricant and the other end thereof projecting outside of said case, and a cap on said case.

1,425,777. PROPELLER ATTACHMENT FOR VEHICLES. WILLIAM E. KELLY, Cleveland, Ohio. Filed Aug. 6, 1921. Serial No. 490,399. 3 Claims. (Cl. 208—38.)



1. An apparatus of the character described, comprising a fulcrum block adapted to be secured to a vehicle, an operating lever fulcrumed to said fulcrum block, a push bar operatively connected to said operating lever and the lower end thereof adapted to engage the ground, and a spring operatively connected to said push bar to hold the lower end thereof to the ground.

1,425,778. SUSPENDER BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed Jan. 5, 1922. Serial No. 527,091. 2 Claims. (Cl. 24—4.)

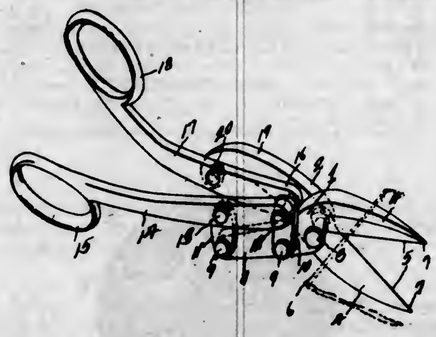


1. A buckle comprising a base plate, and a pair of clamping levers opposite one and the same face of the plate, and having jaws movable toward and from said face, one of the levers overlapping the other lever, and the base plate having an aperture through which the free end of the last-mentioned lever is exposed.

1,425,779. SHEARS. GEORGE W. KILLIN, West Huntington, W. Va. Filed July 29, 1921. Serial No. 488,317. 2 Claims. (Cl. 30—13.)

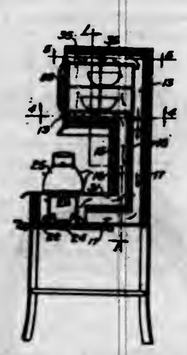
1. A pair of shears comprising crossed members, one end of said crossed members forming shearing blades, the other ends of said crossed members extending rearwardly and away from each other, one of said rearwardly extend-

ing ends having pivoted thereto at spaced points upwardly extending links, a handle member pivoted to said links, thereby forming a parallel movement, a second handle member, said second handle member having its forward end pivotally connected to the first mentioned handle mem-



ber and the forward link at its upper end, said second handle member being pivotally connected to the upwardly and rearwardly extending end of the crossed member at a point spaced from the front end of the upper handle member.

1,425,780. STOVE. IVAN KING, Los Angeles, Calif. Filed Apr. 6, 1921. Serial No. 458,967. 7 Claims. (Cl. 126—39.)



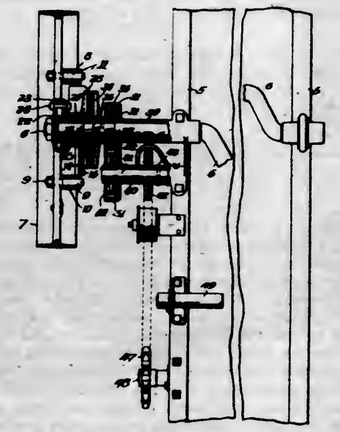
1. In combination; walls forming an oven; walls forming a combustion space open at the top; walls forming an enclosed chamber about said oven; walls forming an enclosed chamber about said combustion space; and walls forming passages through which heated air may be transferred from said space about said combustion space to the space about said oven.

1,425,781. CONDUIT-COUPLING DEVICE. HOMER G. KNOOHUIZEN, Englewood, N. J., assignor to General Electric Company, a Corporation of New York. Filed Oct. 27, 1920. Serial No. 419,979. 6 Claims. (Cl. 247—25.)



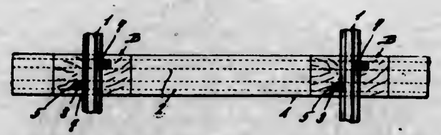
1. The combination of an outlet box of the class described having an opening in a wall thereof, means for making a conduit connection to said box comprising a screw-threaded outlet member projecting through said opening and rotatable therein, said outlet member being provided with locking means rotatable therewith, the wall of the box being provided with an offset portion adjacent the opening therein adapted to engage said locking means to prevent rotation of the outlet member when the outlet member approaches its final position to complete the connection.

1,425,782. SPEED GOVERNOR FOR SELF-FEEDERS. NORMAN R. KRAUSE, Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation. Filed June 21, 1920. Serial No. 390,524. 8 Claims. (Cl. 192—105.)



3. The combination, in a speed governor, of a shaft, a wheel thereon, a cam secured to said wheel, a cam disk engaging said cam, a driven disk, and arms on said wheel connected to said cam disk actuated by centrifugal force to move said cam disk into contact with said driven disk.

1,425,783. RAILROAD TIE. THOMAS D. MCCARTY, Hawk Point, Mo. Filed Oct. 27, 1920. Serial No. 419,800. 1 Claim. (Cl. 238—91.)



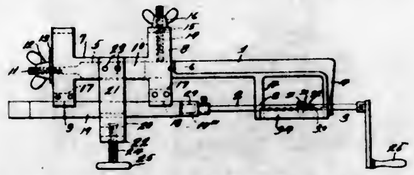
A railroad tie comprising a concrete body provided with recesses in its top face, resilient blocks in said recesses, said recesses and resilient blocks being equal in width to said concrete body, a pair of longitudinal reinforcing bars located in said concrete body and extending from one end of said body to the other end thereof, the top faces of said reinforcing bars being flush with the bottom walls of said recesses to form seats for said resilient blocks, and pairs of rail fasteners including pairs of vertical bolts extending through said reinforcing bars and also through the resilient blocks, one bolt of each of said pairs of bolts extending through one of said longitudinal reinforcing bars, and the other bolt of each pair of bolts extending through the other of said reinforcing bars, each of said vertical bolts having a head anchored in the concrete directly below the

reinforcing bar and a threaded uppper end projecting from the top of one of said resilient blocks, and threaded nuts screwed onto the threaded upper ends of said bolts.

1,425,784. PLASTIC COMPOSITION AND ARTICLES FORMED THEREFROM. JAMES P. A. MCCOY, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 30, 1920. Serial No. 406,777. 19 Claims. (Cl. 106—13.)

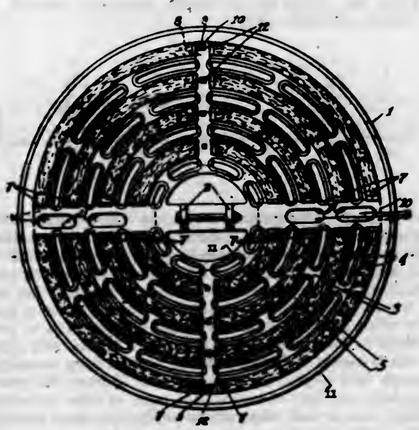
1. An insulating composition, comprising bakelite mixed with a polymerizable resin.

1,425,785. SPOKE-FORMING DEVICE. WILLIAM MCCULLOUGH, Howe, Nebr. Filed Sept. 24, 1921. Serial No. 502,873. 2 Claims. (Cl. 144—206.)



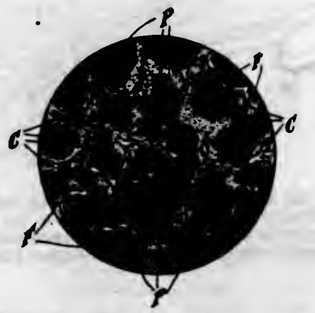
1. The combination with a horizontally disposed member having a spoke cutter shaft rotatably and slidably mounted in bearings thereof, of a spoke supporting member therefor, said supporting member being mounted on a reduced portion of the horizontally disposed member and vertically slidable thereon in engagement with shoulders formed by the reduced portion, the outer end of the reduced portion being threaded, a nut threaded on said reduced portion and adapted to force the spoke supporting member in engagement with the shoulders formed by the reduced portion, a threaded member extending upwardly through the spoke supporting member and provided with a nut for feeding the spoke supporting member downwardly for accurately gaging the position of a spoke in relation to the cutter shaft, a handle member carried by said cutter shaft and means for feeding said cutter shaft in the direction of the spoke during a spoke cutting operation.

1,425,786. BUFFING WHEEL. DANIEL F. MCGOVERN, Montpelier, Vt. Filed Dec. 15, 1920. Serial No. 430,834. 3 Claims. (Cl. 51—195.)



1. A buffing wheel comprising a disc having a series of spaced concentric rings and a series of spaced concentric segmental buffing elements clamped between said rings, said rings having each an annular slot series providing a plurality of feed openings for the introduction of polishing material to the individual buffing elements.

1,425,787. PROCESS OF DETERMINING THE SUITABILITY OF STEEL FOR CASEHARDENING. HARRY W. MCQUAID, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 1, 1921. Serial No. 488,885. 8 Claims. (Cl. 148—1.)



1. The process for determining the suitability of steel for hardening which consists in carburizing a sample thereof and microscopically examining a section of said sample through its carburized case.

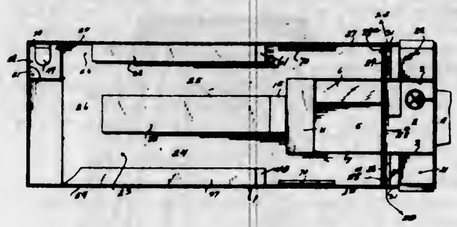
1,425,788. TIRE CONSTRUCTION. FRANC D. MAYER, Chicago, Ill. Filed Aug. 14, 1919. Serial No. 317,529. 3 Claims. (Cl. 152—13.)



3. In a tire, an inner carcass, a fabric partially covering said inner carcass, a tread, a fabric partially covering the inner surface of said tread and overlapping the lateral edges of the fabric on said carcass, and a resilient cushioning element between said fabrics and corrugated to provide air containing recesses.

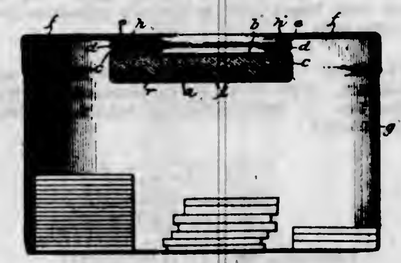
1,425,789. PORTABLE AUTOMOBILE GROCERY STORE. ANNIE L. MOSELEY, San Antonio, Tex. Filed Dec. 31, 1920. Serial No. 434,858. 3 Claims. (Cl. 296—24.)

1. In a portable grocery store, a housing having a salesman's aisle forwardly and centrally of the housing, a customer's aisle on one side of the salesman's aisle and having a gravity closed sliding entrance door to be opened from the exterior and unopenable from the interior, a customer's exit aisle on the opposite side of the salesman's aisle and having a gravity closed sliding



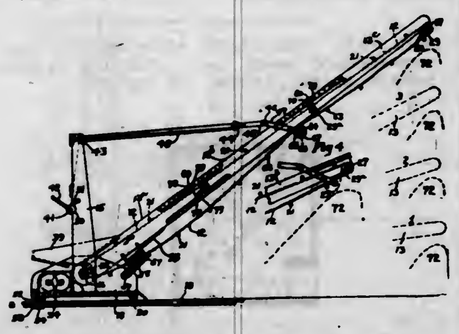
exit door forwardly of the housing openable from the interior, and unopenable from the exterior, and a passage connecting the rear ends of the aisles.

1,425,790. RECRISPING MEANS. PAUL S. MOYER, Chicago, Ill., assignor to The Aridor Company, Chicago, Ill., a Corporation of Illinois. Filed June 26, 1919. Serial No. 306,803. 7 Claims. (Cl. 34—1.)



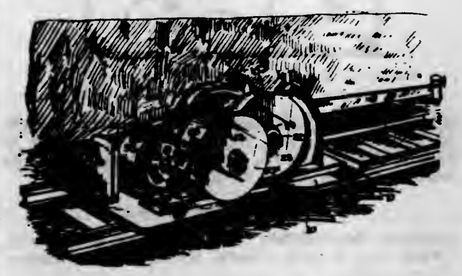
1. In combination, a container for food products and the like; a removable cover therefor; and moisture absorbing means carried by the interior of the cover comprising a holder or receptacle open to circulation of air in the container, and a moisture-absorbing medium, housed in said holder, and comprising the solid product of a mixture of infusorial earth and hygroscopic material intimately bound together and capable of attracting and absorbing moisture and of being readily dehydrated by heat.

1,425,791. GRADING AND STORING MACHINE FOR POTATOES, ETC. NOAH JOHNSON OAK, Lynn, Mass. Filed Oct. 20, 1921. Serial No. 508,915. 5 Claims. (Cl. 130—32.)



1. A potato-grading and storing machine, comprising, in combination, a portable holding structure adapted to rest on a floor, a boom pivoted at one end to said structure to swing in a vertical plane, and provided with belt-supporting pulleys at its opposite ends, adjustable means connecting the boom with the supporting structure to support the boom in an inclined position and vary its inclination and the height of its outer end, a reticulated endless conveyor belt engaged with said pulleys, mechanism carried by the holding structure and the boom, for driving the belt to move its upper stretch outward from the holding structure, a hopper mounted on the holding structure in position to deliver potatoes to the inner end of the upper stretch of the belt, the belt being adapted to convey firsts on its upper stretch to the outer end of the boom, and to drop seconds and culls, means between the stretches of the belt for collecting seconds and culls and laterally discharging the same at one side of the boom, and anchoring means for detachably securing the holding structure to a floor supporting the same.

1,425,792. HOIST. LAWRENCE PIGNANI and FRANK PIGNANI, Blairsville, Pa. Filed July 23, 1921. Serial No. 486,992. 5 Claims. (Cl. 254—187.)



1. In a hoist, a bed plate, spaced bearings on the bed plate, each including an elongated base and a circular bearing plate having an inwardly and laterally extending marginal flange, a hollow axle journaled in the bearing plates, a winding drum including a hub having bearings rotatably mounted on the hollow axle, and cheek plates rotatably mounted within the flanges, said cheek plates, said bearing plate and said flanges defining chambers, an electric motor including an armature, a pedestal having a bearing rotatably supporting said armature, a gear casing between said bearing and one of said spaced plates, gearing arranged in said gear casing for transmitting the motion from said electric motor to said winding drum and including a pinion fixed to the armature, a shaft journaled in the gear casing, a large gear fixed to said shaft and constantly meshing with said pinion, a small gear loosely mounted on said shaft, means for clutching said small gear to said large gear, and a ring gear fixed to the adjacent cheek plate of the winding drum operating in the adjacent chamber and constantly meshed with the small gear, a brake drum carried by the other cheek plate and operating in its adjacent chamber, a brake band cooperable with said brake drum, an operating lever for said brake band extending rearwardly from the winding drum, and guides for the cable carried by the spaced bearings.

1,425,793. GAME OR PUZZLE. HAROLD LORENZO POST, Appleton, Wis. Filed June 29, 1920. Serial No. 392,669. 1 Claim. (Cl. 46—41.)

A device of the character described comprising a game board having a bottom, a false bottom spaced therefrom, a series of flat arbitrarily curved strips disposed with their side edges resting on said false bottom and having tongues formed thereon and projecting through the false bottom and clinched thereto, said strips coop-

erating to form a tortuous pathway, the end of one strip being extended into the concavity of another strip substantially centrally thereof to form the inner wall



of a return bend in said pathway, and a series of holes in the false bottom within the walls of said pathway to make it difficult to move a ball there along without its dropping through one of the holes.

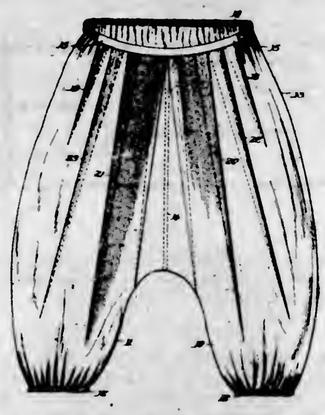
1,425,794. BLOOMERS. HERMAN SACKS, Chicago, Ill. Filed Jan. 3, 1922. Serial No. 526,514. 3 Claims. (Cl. 2—122.)



1. A garment comprising a pair of gores and a crotch piece, each gore providing a front body portion and an integral front leg portion, the gore having a straight front inner edge continuing throughout said portions, and each gore further providing a rear body portion and an integral rear leg portion and having a straight rear inner edge continuing throughout said portions, said crotch piece providing upwardly tapering front and rear gussets, the inner edges of the front and rear portions of the respective legs being stitched together as far as said gussets and there-beyond stitched respectively to edges of said gussets, and inner edges of the body portions being stitched together above the crotch piece to complete the body.

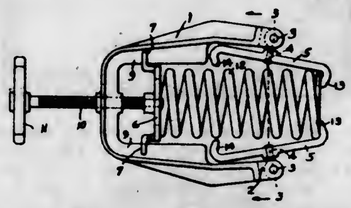
1,425,795. BLOOMERS. HERMAN SACKS, Chicago, Ill. Filed Jan. 3, 1922. Serial No. 526,515. 1 Claim. (Cl. 2—122.)

As a new article of manufacture bloomers comprising leg portions, and a trunk portion having vertically extending plaits at the front thereof and waist band composed of an inelastic portion at the front and an elastic portion at the rear of the garment, the said plaits being permanently and inexpansively secured to the inelastic



portions of the waist band at their upper ends, and having their lapped portions free and expansible below the waist band.

1,425,796. VALVE-SPRING COMPRESSOR AND HOLDER. CLYDE M. SALSGIVER, Highland Park, Mich. Filed Feb. 14, 1921. Serial No. 444,629. 6 Claims. (Cl. 29—86.3.)



1. A valve spring compressor and holder, comprising a frame, a terminally hooked arm intermediately pivoted upon said frame, a spring abutment mounted upon said frame and slidable to and from said arm, a spring abutment paired with the slidable abutment being formed by one of the terminal hooks of said arm, and the other hook of the arm being engageable with the spring when the latter is under a predetermined compression, and means carried by the frame for actuating said slidable abutment toward said arm.

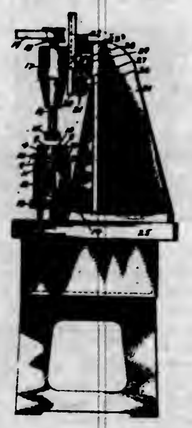
1,425,797. FIRE-ALARM ATTACHMENT. JOHN SCHNEIDERMAN, George, Iowa. Filed May 5, 1919. Serial No. 294,816. 1 Claim. (Cl. 177—379.)



The combination of a casing having an opening therein an alarm mechanism projecting in the casing, a retaining

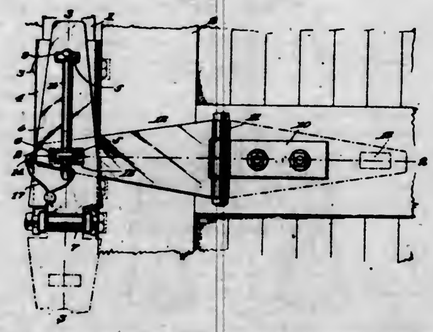
plate pivoted at its upper edge above the opening in said casing and adapted to swing vertically, an arm extending laterally from said retaining plate, a weight carried by the end of the arm, a latch lever pivotally mounted within the casing and engaging the weight for holding the retaining plate in a raised position, a connection between said lever and said alarm mechanism whereby the lever is operated when the alarm mechanism is actuated, and means for retaining the retaining plate in a lowered closed position.

1,425,798. APPARATUS FOR MAKING HOLLOW-GROUND RAZOR BLADES. THOMAS C. SHEEHAN, Upper Montclair, N. J., assignor to Durham Duplex Razor Company, New York, N. Y., a Corporation of New York. Filed Feb. 9, 1921. Serial No. 443,516. 8 Claims. (Cl. 51—53.)



1. In an apparatus for hollow-grinding razor blades, the combination with means for positioning a blade with the surface to be ground slightly within a constant circle the radius of which is equal to the radius of said surface when ground, of grinding means operative within said circle, and means for producing a relative rotating movement of said positioning means and said grinding means.

1,425,799. CAR-DOOR LOCK. WASHINGTON S. SIKES, Edgar, Fla. Filed Oct. 21, 1921. Serial No. 509,316. 3 Claims. (Cl. 292—284.)



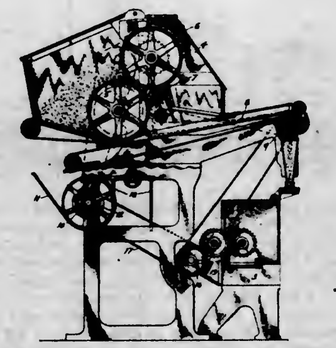
1. A lock for sliding doors including a channel member secured to the door jamb, a hasp pivoted to the channel member, a second hasp pivoted to the door, said hasps being provided with registering openings, and a pin adapted to extend through said keeper and hold the hasps in locking position.

1,425,800. MEASURING DEVICE. FRANK E. SMALL, Jamaica, Long Island, N. Y. Filed Sept. 25, 1920. Serial No. 412,854. 11 Claims. (Cl. 73—62.)



1. An implement for measuring granular material comprising a handle and a vessel mounted thereon, said vessel having its lower end open and providing a chamber whose inner wall flares outwardly toward the open end thereof, and means for opposing free discharge of material from the lower open end of said vessel.

1,425,801. DRIVING MECHANISM FOR CIGARETTE MACHINES. ELBERON D. SMITH, Brooklyn, N. Y., assignor to American Machine & Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 15, 1919. Serial No. 330,706. 3 Claims. (Cl. 131—39.)

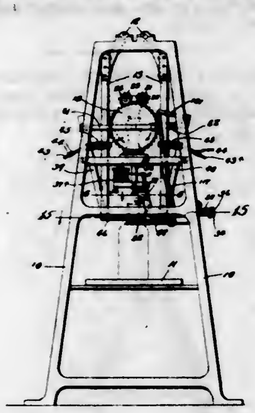


3. The combination with a cigarette forming mechanism, of a tobacco feed mechanism therefor, means for operating said feed mechanism at constant speed, and a variable speed device connecting said feed mechanism and said cigarette forming mechanism and driving the latter, said device including a connecting belt, a belt shifter, and a pair of reversely disposed conical pulleys one carried by each mechanism.

1,425,802. BAG CLOSING AND TYING MACHINE. CHARLES F. SPARKS, Alton, Ill. Filed Jan. 12, 1920. Serial No. 350,916. 16 Claims. (Cl. 226—57.)

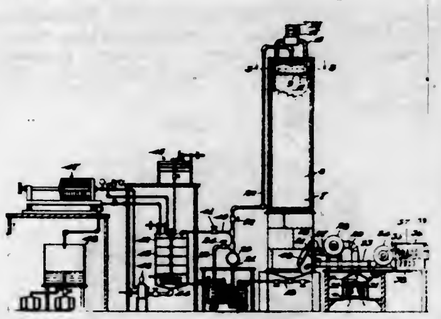
1. In a bag closing and tying machine, a pair of horizontally disposed plates arranged to move toward each

other so that one plate overlaps the other, the front end of one of said plates being notched, and a pair of closing



fingers carried by the other plate and adapted to move toward each other.

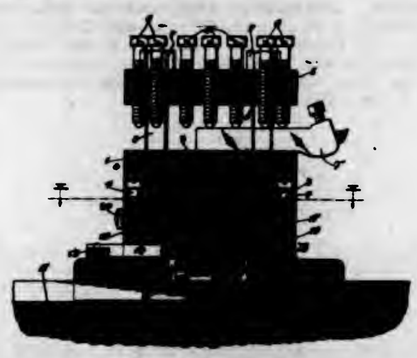
1,425,803. APPARATUS FOR TREATING FISH OIL AND THE LIKE. JOHN C. W. STANLEY, Long Beach, Calif., assignor to The Title Guarantee and Trust Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 21, 1921. Serial No. 454,217. 4 Claims. (Cl. 87—12.)



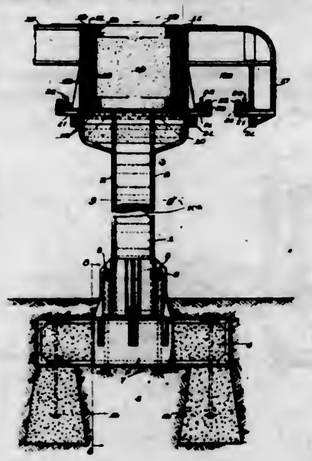
1. An apparatus for treating fish oil with ozone, comprising a chamber, an oil receptacle in the upper portion of said chamber having a perforated bottom wall for directing a rain of oil downwardly through said chamber, a reservoir for receiving the oil discharged from the chamber, a pipe leading from said reservoir to said receptacle, a pump for discharging the oil from said reservoir through said pipe to effect a circulation of oil through said chamber, an ozonator, means for passing air through said ozonator and through said chamber whereby the oil in the chamber will be subjected to the action of ozone carried by the air, and means for passing heated air through said chamber.

1,425,804. ROTATABLE TOOL HOLDER FOR LATHES. JOSEPH C. STEINER, St. Louis, Mo. Filed Jan. 20, 1919. Serial No. 272,017. 2 Claims. (Cl. 29—48.)

1. In a rotatable tool holder for lathes, a horizontal tool-receiving table, a screw holder mounted above said table and separated therefrom to provide a large open tool-receiving space, tension members extending across said space and connecting said screw holder to said table, vertical clamping screws mounted in said screw holder and extending into said open space to clamp the tools onto said table, a vertical pivot located at the center of said table and extending downwardly from the bottom of said table, one of said clamping screws being located in said open tool-receiving space at a point directly above said pivot, and the other clamping screws being located at various points around the axis of said pivot, the large open tool-receiving space being formed directly above said pivot and entirely around said axis so as to allow the tools to extend directly across said axis and in various directions from the different sides of the table, said pivot lying entirely below said tool-receiving space and having its periphery cylindrical for a portion of its length, said periphery being beveled to provide a circular cam face concentric with the axis of the pivot, a stationary seat for the table located around the axis of said pivot, said seat having plane bottom and top faces and a circular inner face closely fitted to the cylindrical portion of the pivot so as to form a bearing therefor, and a contractible split cam ring co-operating with said beveled cam face on the pivot and also with the plane bottom face of said seat to force said table into firm engagement with the plane top face of said seat, said seat being interposed between said cam ring and table.

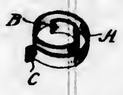


1,425,805. ELEVATED RAILWAY. JOSEPH B. STRAUSS, Chicago, Ill. Filed Nov. 4, 1921. Serial No. 512,721. 18 Claims. (Cl. 104—94.)



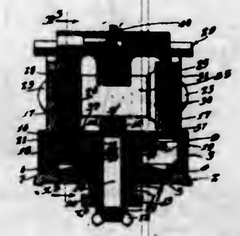
1. An elevated structure comprising a series of central posts in substantial alignment, two separated substantially parallel girders mounted on said posts, and track supporting parts extending laterally and outwardly from each girder for supporting tracks for cars, the ends of said track supporting parts being free.

1,425,806. BAND FOR ENGAGING AND HOLDING THE ENDS OF THE RIBS OF UMBRELLAS WHEN CLOSED. JAY H. SWIFT, Philadelphia, Pa. Filed Aug. 3, 1921. Serial No. 489,629. 1 Claim. (Cl. 24—256.)



As an article of manufacture, a band adapted to hold the ribs of an umbrella when closed, comprising a narrow elongated band of resilient material formed in a coil, the turns of the coil being spaced apart, and lying in the same plane, the outer terminal of the coil being flared outwardly.

1,425,807. SUPPORT FOR CAMERAS. KARL W. THALHAMMER, Los Angeles, Calif. Filed Aug. 19, 1919. Serial No. 318,615. 16 Claims. (Cl. 248—47.)



1. In a support for a camera, a table for supporting a camera, a single operating member adjustable to different positions, and means operative by the operating member when said member is in one position of adjustment to effect tilting of the table forwardly and downwardly and operative when said member is in another position of adjustment to effect tilting of the table forwardly and upwardly.

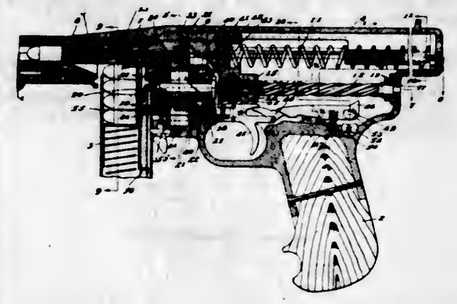
6. In a support for a camera, a base, a table having a depending hub rotatably mounted on the base, a gear connected with the hub, a second gear engaging the first gear, a disk, means to hold the disk against rotation, and a spring pressing the disk against the hub, the tension of the spring being insufficient to hold the hub from turning when the second gear is operated.

8. In a support for a camera, a base, a shaft supported by the base, a table having depending hubs mounted on the shaft, a gear connected to one of the hubs, means to produce braking action on the other hub, and means to turn the gear.

9. In a support for a camera, a stationary member, a table, mechanism between the table and stationary member to turn the table including means to hold a portion of the mechanism against rotation, the mechanism-holding means being releasable to allow the table to be turned without direct operation of the table-turning mechanism.

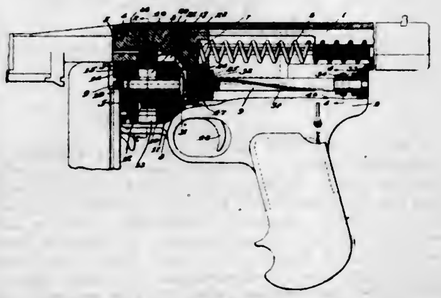
1,425,808. BREECH MECHANISM FOR GUNS. JOHN TALIAFERRO THOMPSON, Newport, Ky., assignor, by direct and mesne assignments, to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 2, 1920. Serial No. 427,891. 36 Claims. (Cl. 42—3.)

1. A gun having in combination: a firing chamber, a breech closure movable into and out of position for closing the firing chamber, a member for restraining the closure, and means actuated by said breech closure for



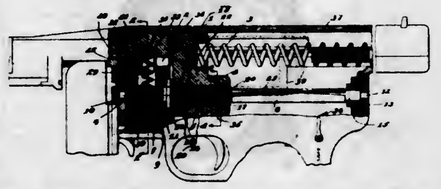
moving the member in a continuing path first into restraining position and then out of restraining position.

1,425,809. BREECH-CLOSURE MECHANISM. JOHN TALIAFERRO THOMPSON, Newport, Ky., assignor, by direct and mesne assignments, to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 2, 1920. Serial No. 427,892. 21 Claims. (Cl. 42—3.)



1. A gun comprising a firing chamber and an automatic breech closure movable relative to the firing chamber into and out of position to close the chamber, an automatic lock movable into and out of position to restrain the breech closure in said position, and means actuated by the movement of said breech closure for moving said lock substantially continuously when the gun is in full automatic operation, in a continuing path, synchronously with the breech closure, into and out of position momentarily to restrain the breech closure in said position.

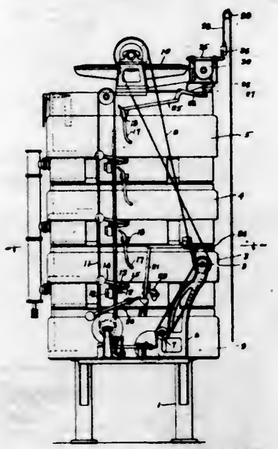
1,425,810. AUTOMATIC GUN. JOHN TALIAFERRO THOMPSON, Newport, Ky., assignor, by direct and mesne assignments, to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 2, 1920. Serial No. 427,893. 14 Claims. (Cl. 42—3.)



1. A gun comprising a breech closure movable into and out of firing position, means separate from the clo-

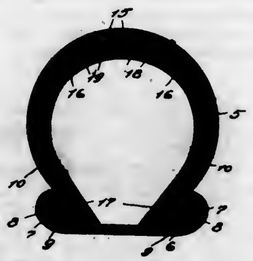
sure for restraining the closure in firing position, and mechanism positively connecting said means with said closure and actuated kinematically by said closure to move said means into and out of restraining position synchronously with the movement of the closure.

1,425,811. COOKER FOR OIL-BEARING MATERIAL. RUSSELL A. TRACE, Dayton, Ohio, assignor to Buckeye Iron and Brass Works, Dayton, Ohio, a Corporation of Ohio. Filed Oct. 28, 1920. Serial No. 420,112. 9 Claims. (Cl. 87—6.)



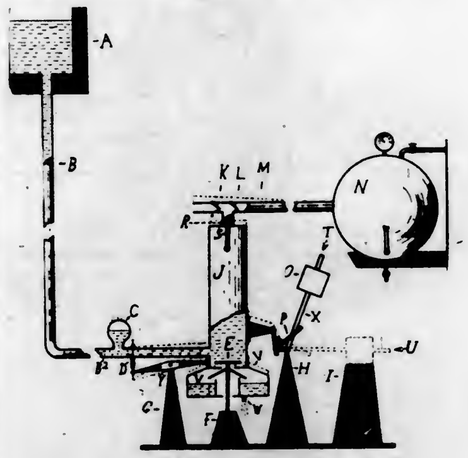
3. In a cooker, the combination, with a plurality of receptacles adapted to discharge material in succession from the first to the last receptacle, and devices for stopping the discharge of said material, of means for operating said devices, means for connecting power to said operating means and disconnecting it therefrom, said connecting and disconnecting means being so arranged that the power will be disconnected from said operating means after the discharge from the first receptacle has been stopped and being arranged to connect the power to said operating means if the material in the last receptacle has not reached a predetermined height, means operable by said operating means for discharging material into said topmost cooker after it has been emptied, a conveyor to convey material to said discharging means, and means of stopping said discharging means at the will of the operator.

1,425,812. PNEUMATIC TIRE. EDWARD J. TUREK, St. Louis, Mo. Filed Oct. 11, 1919. Serial No. 330,050. 1 Claim. (Cl. 152—18.)



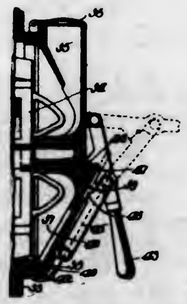
A puncture and blow-out preventing means for pneumatic tires comprising a plurality of flexible, circumferentially continuous bonds, a strip comprising a plurality of metalliform plates, each of which is provided with integral eyes, forming hinges, through which certain of said continuous, flexible bonds are extended and which plates have their contiguous margins abutted to form an imperforate envelope for a portion of the tire sectionally and a strip of metalliform mesh fabric carried by said bonds at each side of the said plates.

1,425,813. HYDRAULIC AIR COMPRESSOR. GEORGE T. UNDERWOOD, Maxwell, Calif. Filed Mar. 5, 1921. Serial No. 449,640. 1 Claim. (Cl. 230—23.)



An air compressor comprising in combination a compression tank adapted for vertical reciprocation, a counterbalancing arm pivoted to said tank, a valve for admitting liquid under pressure to said tank, operative connection between said tank and said valve, a valve in the lower part of said tank adapted to open when tank is lowered, a second tank attached to and beneath said first named tank and in communication therewith when the second mentioned valve is open having a smaller outlet whereby said tank serves to hold down said first named tank until same is emptied, substantially as described.

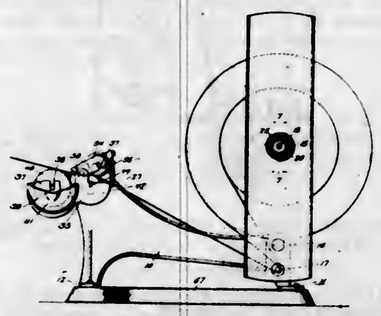
1,425,814. ICE-CREAM FREEZER. THEODORE L. VALERIUS and OLAF LARSEN, Fort Atkinson, Wis., assignors to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed June 30, 1919. Serial No. 307,822. 9 Claims. (Cl. 220—24.)



9. An ice cream freezer having, in combination, a horizontal freezing cylinder, a head closing the forward end

of said cylinder, said head having an inclined portion adjacent its lower edge, said inclined portion having a discharge opening and a flat face surrounding said opening, said flat face extending to the periphery of the head, and a sliding gate adapted to cover and uncover said opening, said gate when closed extending to the periphery of the head, the lower portion of the periphery of said discharge opening being so located that cream may fall vertically downward therefrom without touching any other part of the freezer.

1,425,815. GUM-TAPE-HOLDING DEVICE. VANDIVER J. VAN HORN, Chicago, Ill. Filed Apr. 4, 1919. Serial No. 287,596. 20 Claims. (Cl. 91—14.5.)



1. A device of the character described, including in combination, a body member having provision for rotatably supporting a reel, a unitary construction mounted on said body member, including a moistening means, feeding and tension means and cutting means, said unitary construction being adjustable relative to said body member so that it may be held in proper position regardless of the position of the body member as a whole.

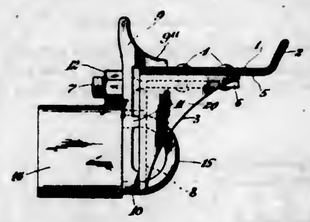
1,425,816. WRENCH. VANDIVER J. VAN HORN, Chicago, Ill. Filed Jan. 6, 1921. Serial No. 435,368. 2 Claims. (Cl. 81—60.)



1. A wrench having a one-piece housing provided with flat, perforated, folded housing members, each having bounding walls angularly related to the flat members and placed edge to edge; a ratchet wheel having lateral shoulders, smaller in diameter than the teeth of the wheel, one on each side thereof journaled in the respective openings; a handle, pivoted in said housing, having a toe engaging said teeth and a notch in its edge, near the toe and an open coiled spring in said notch, having one end in contact with the handle and the other in contact with the side wall of the housing.

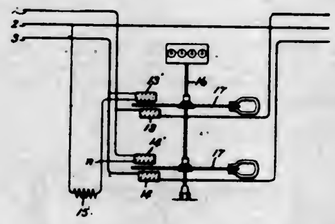
1,425,817. TIRE-RIM LOCK. CHARLES F. WASSERFALLEN, Detroit, Mich., assignor to Detroit Tire Carrier Co., Detroit, Mich., a Corporation of Michigan. Filed Oct. 29, 1917. Serial No. 199,151. 7 Claims. (Cl. 224—29.)

1. As a means for retaining a spare tire rim in position on a spare tire carrier structure, and wherein the rim is supported on a rim holder, a unit comprising an element permanently secured to the holder, a member removably supported by said element and having a face adapted to engage the rim to clamp it in position, and removable means whereby the member will be retained in position, said means including a member carried by and adjustable relatively to the element and operative in



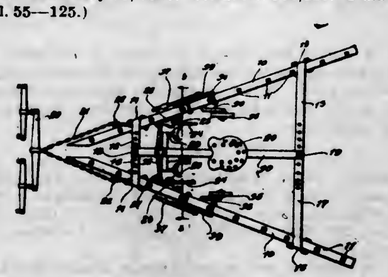
producing the clamping action, said element and member having alined openings to permit of the passage of an element of a removable locking device with the openings so arranged that the positioned locking device will retain the member in position regardless of releasing movement of the removable means.

1,425,818. REACTIVE VOLT-AMPERE METER. JOHN W. WEST, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 20, 1919. Serial No. 346,301. 4 Claims. (Cl. 171—264.)



3. A meter for measuring the reactive volt amperes in a three phase system, said meter comprising two current coils, two potential coils cooperating one with each current coil, a reactor connected between said potential coils and the line having no current coil for altering the normal phase relations between the magneto-motive forces of each current coil and its associated potential coil, and means for utilizing the torques produced by the current and potential coils for performing an indicating function.

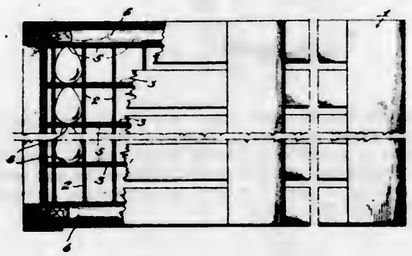
1,425,819. HARROW. JOSEPH N. WILKIN, Hillsboro, Ohio. Filed May 14, 1920. Serial No. 381,415. 3 Claims. (Cl. 55—125.)



1. A harrow comprising a pair of rearwardly diverging beams carrying teeth and provided with draft means, a

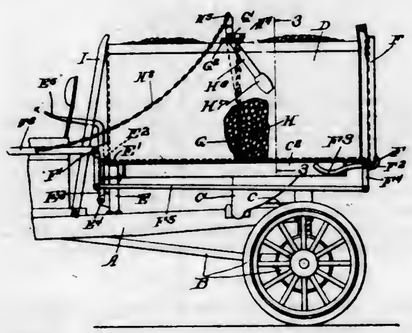
pair of transverse arch members secured to and connecting said means and extending upwardly thereabove, said arch members being independently adjustable whereby to vary the angular inclination of the teeth with respect to each other, a longitudinally extending bar connecting said arch members, and a seat mounted on the bar.

1,425,820. FLAT FOR EGG AND OTHER CASES. GEORGE H. WILLIAMS, Burnside, Ky. Filed Dec. 5, 1921. Serial No. 520,008. 5 Claims. (Cl. 217—26.)



1. A flat for cell cases including a relatively thin rectangular member of cardboard or the like having oppositely disposed circular depressions in its upper and lower surfaces.

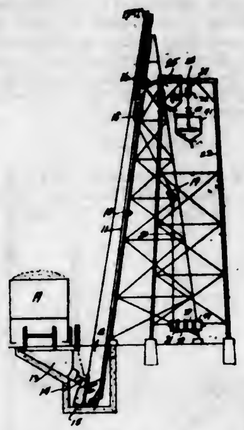
1,425,821. BODY SUBDIVISION. WILLIAM C. ANTHONY, Streator, Ill., assignor to Anthony Company, Streator, Ill., a Corporation of Illinois. Filed Apr. 17, 1920. Serial No. 374,557. 6 Claims. (Cl. 298—10.)



1. A vehicle body having two stops on its inner sides and a door adapted to rest against one of them and having a hole to permit it to pass over the other and a movable lock on the door adapted to pass between the door and such second stop.

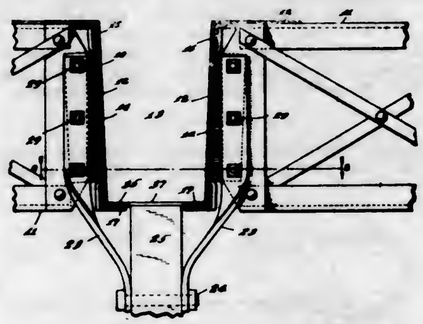
1,425,822. COAL-HANDLING SYSTEM. FRANKLIN E. ARNDT, Galion, Ohio, assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio, a Corporation of Ohio. Filed Mar. 26, 1921. Serial No. 455,901. 8 Claims. (Cl. 214—86.)

1. A handling system including in combination a material carrying bucket movable in an approximately horizontal plane toward or from a charge receiving position, manually controlled means for raising or lowering the bucket, means for discharging the contents of the same, a hoisting bucket, and manually controlled means for raising or lowering the hoisting bucket from and to its receiving



position and causing it to discharge into the carrying bucket when the latter is in its receiving position.

1,425,823. COLLAPSIBLE FALSEWORK FOR CONCRETE FLOORS. HUGH J. BAKER, Indianapolis, Ind. Filed Jan. 21, 1921. Serial No. 438,814. 4 Claims. (Cl. 25—131.5.)



1. A falsework for concrete floors, comprising side members, cross members separably attachable to said side members to constitute therewith a framework, and a sheet-metal sheath detachably resting upon said framework, said cross members and side members being provided with bolt holes for receiving attaching bolts, and the bolt holes being arranged to make the side members which are joined by said cross members tilt with respect to each other.

2. A falsework for concrete floors, comprising side members, cross members separably attachable to said side members to constitute therewith a framework, and a sheet-metal sheath detachably resting upon said framework, said cross members and said side members being provided with cooperating rows of holes for receiving attaching bolts, the rows of holes in the cross members being parallel to each other.

1,425,824. WHEEL. SAUL P. BARBER, Pasadena, Calif. Filed Sept. 23, 1920. Serial No. 412,119. 4 Claims. (Cl. 152—8.)

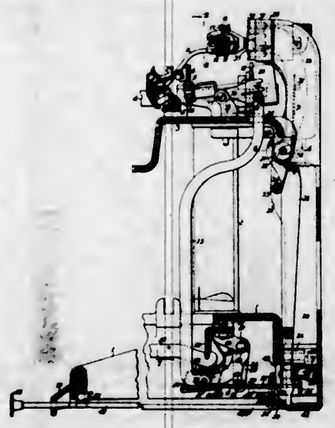
4. A wheel having leaf springs fixed at one of their ends against the periphery of said wheel, each of said springs being offset and curved longitudinally and forming

a circumferential continuation of the flat fixed end thereof, said continuation of the spring having its free end disposed over a pair of next preceding springs, the free end



of each spring bearing upon the medial portion of the next preceding spring, and a roller carried by the free end of each spring and disposed between and bearing upon the springs of the next preceding pair.

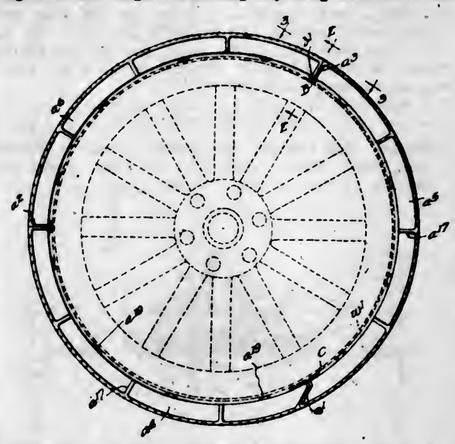
1,425,825. TYPEWRITING MACHINE. EDWIN E. BARNEY, New Rochelle, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Oct. 7, 1921. Serial No. 506,014. 23 Claims. (Cl. 197—178.)



1. In a tabulator, the combination of a series of horizontally arranged key controlled actuating members each formed with two parallel arms and an upstanding contacting portion, and a series of stop actuating levers registering with said upstanding contacting portions and adapted to be moved thereby.

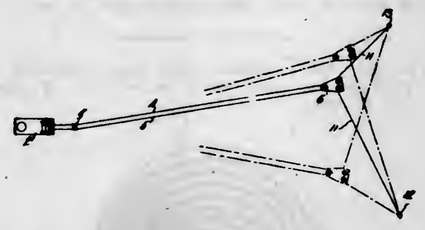
1,425,826. RIM FOR VEHICLE TIRES. GERALD G. BARRY, Chicago, Ill. Filed Jan. 8, 1921. Serial No. 434,521. 4 Claims. (Cl. 301—39.)

1. As a new article of manufacture, a demountable rim for vehicle tires comprising an annular band provided with a flange on each side thereof for embracing the tire seats and securing the same, and integrally connected to each of the said side flanges a further flange which is outwardly directed and recedes from normal surface contact with the tire wall, being so carried outwardly beyond the customary limit of the tire seat embracing flanges to substantially one-half the sectional depth of the tire, and then the said additional flange being turned and continuing substantially at right angles to the plane of the wheel, the said base band and side flanges being split transversely at a plurality of points of the circumference, at one of said parting splits suitable locking means for there detachably securing the adjoining sections of the rim, and at the remaining partings suitable hinges connecting adjoining sections of the



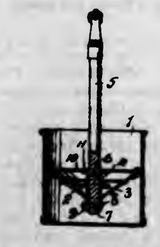
rim and adapted to permit inward movement thereof, substantially as set forth.

1,425,827. OVERHEAD TRACK LINE. WILLIAM LIONEL BARTON, Vancouver, British Columbia, Canada, assignor of forty-five per cent to John L. Kerr, Vancouver, British Columbia, Canada. Filed Oct. 24, 1921. Serial No. 510,166. 7 Claims. (Cl. 104—112.)



1. An overhead wire rope track line, the inner end of which is connected to a spar pole adjacent the hauling engine, a transverse anchoring line to which the outer end of the track line is connected, said transverse anchoring line having its ends anchored whereby said transverse anchoring line becomes relatively stationary, and means for moving the track line connection along the transverse line.

1,425,828. LAUNDRY DEVICE. EDWIN T. BASKIN, Kansas City, Mo. Filed Oct. 27, 1920. Serial No. 419,912. 1 Claim. (Cl. 68—5.)



In a laundry device, a clothes pounder having a perforate concavo-convex body, a socket member attached

at one end to said body, a guard attached to the body and extending across the concave side of the body and attached to and serving as a brace for the other end of the socket member, and a handle adapted to be inserted into either end of the socket member and having means for being releasably attached to the socket member, substantially as set forth.

1,425,829. POLISHING MACHINE. CARL T. BEGGS, Long Beach, Calif. Filed June 21, 1921. Serial No. 479,182. 4 Claims. (Cl. 74—26.)



2. A mechanism for the purpose set forth comprising, a spindle, a friction disk thereon, a rotary shaft, a friction wheel slidable on said shaft and revolvable therewith; said wheel having a hub formed with a peripheral groove, a slidable sleeve, a yoke on said sleeve extending into the groove on the hub, a thumb operable regulating wheel, and a link connecting said wheel to said sleeve whereby rotation of the regulating wheel will move said sleeve to effect shifting of said friction wheel whereby it may be thrown in and out of engagement with said disk and moved diametrically across its face.

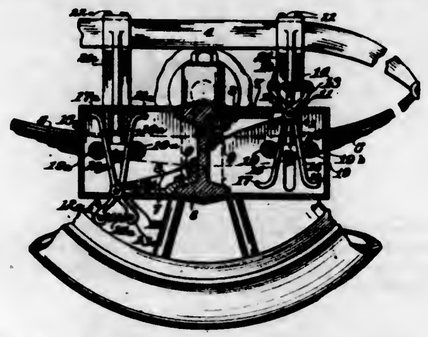
1,425,830. MAT. ROBERT JAMES BELL, Richmond, Va. Filed June 9, 1921. Serial No. 476,195. 3 Claims. (Cl. 15—239.)



2. In a mat, a base, and arranged upon the base a flexible rib of substantially triangular section, the said rib being formed of an elastic core and a woven fabric incorporated with an elastic substance and surrounding said elastic core.

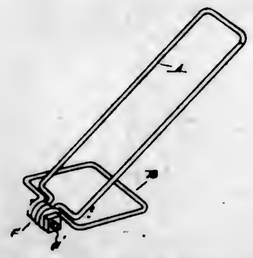
1,425,831. SHOCK ABSORBER. CHARLES WILLIAM BISHOF, Los Angeles, Calif. Filed May 21, 1921. Serial No. 471,492. 1 Claim. (Cl. 267—20.)

A shock absorbing mechanism adapted to be interposed between the axle of an automotive vehicle and the frame of said vehicle and to comprise substantially a plurality of cross levers fulcrumed at the crossing point having a spring under tension between the respective levers at one end of the device and a pair of rollers mounted upon pins extending from a bracket and embracing the free ends of said fulcrumed levers, one of said set of fulcrumed levers projecting downwardly, the other unit projecting upwardly, said embracing rollers adapted to reciprocate relative to said fulcrumed levers and to meet opposition in the way of resistance by reason of com-



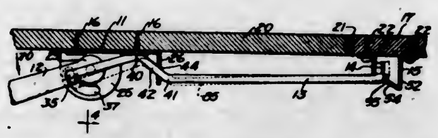
pressing said levers and expanding a spring under tension, the resistance to compression of said levers being dependent on said spring, all substantially as set forth.

1,425,832. LEAF-SPRING COMPRESSOR. WILLIAM W. BLAKELY, Detroit, Mich. Filed Dec. 27, 1919. Serial No. 347,856. 11 Claims. (Cl. 267—1.)



1. A leaf spring compressor comprising a tie member and an anchorage member pivotally attached to said tie member, said members being respectively adapted for quick detachable engagement with a vehicle spring and a relatively fixed portion of a vehicle.

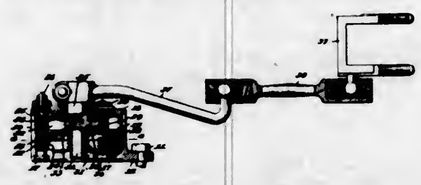
1,425,833. TABLE LOCK. CLAUDE E. BOWERS, Los Angeles, Calif. Filed May 23, 1921. Serial No. 471,680. 1 Claim. (Cl. 45—9.)



In a locking device, the combination of; a catch bar; a hook on the free end of said catch bar; a catch plate adapted to be engaged by said hook; said catch plate having a short forward leg and a long rear leg; a lever to actuate said catch bar; a plate; a tongue integrally formed on said plate to pivotally mount said actuating lever; said tongue being formed to provide an arcuated opening; a bent up portion upon the end of said catch bar opposite to said hook adapted to extend through an opening provided therefor in said lever and to actuate in said opening provided in said tongue; a washer riveted

upon said bent up portion of said catch bar to retain said end in operating position; a toe formed upon said plate, having a hole formed therein; and a sliding cam formed by suitably bending said catch bar, said cam acting in said hole formed in said toe to lower the position of said free end of said catch bar as said hook is actuated against said longer leg of said catch plate when the locking device is being disengaged.

1,425,834. SHOCK ABSORBER. CHARLES H. BROWN, Indianapolis, Ind. Filed Oct. 24, 1921. Serial No. 509,799. 14 Claims. (Cl. 188—89.)

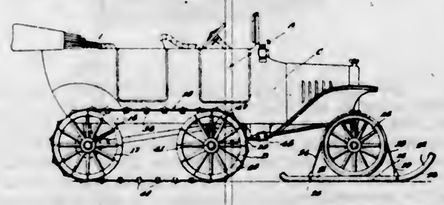


1. In a shock absorber of the class described, the combination of a fluid containing cylinder, a reciprocable piston in the cylinder; means in said cylinder for guiding said piston and preventing rotary movement of the same, a rotatable cam member for moving said piston, and a by-pass permitting displacement of the fluid from one side to the other of said piston.

7. In a shock absorber of the class described, the combination of a fluid containing cylinder, a rectilinearly movable piston in the cylinder adapted to displace the fluid therein, a cam disk in the cylinder for moving the piston, complementary cam means associated with said piston, the cams being effective upon relative rotation of the disk and piston in one direction to produce operation of the piston and fluid displacement only after the initial stages of the movement.

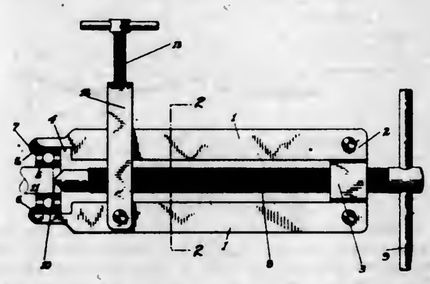
13. A shock absorber of the class described comprising a fluid containing cylinder, a piston in said cylinder, guide studs in the cylinder for said piston preventing rotation of the piston, one of said studs having a central bore serving as a fluid by-pass, a rotatable cam disk in the cylinder, complementary cams on said piston, said disk having a bearing stud extending through an end wall of the cylinder, and a second stud extending through said piston having a bearing in the opposite end wall of the cylinder, an adjustable valve for regulating said by-pass, said piston having a port therein to permit the return of fluid displaced by the piston, and a one-way valve controlling said port.

1,425,835. AUTOSLEIGH ATTACHMENT. OTTO BUFE, Grand Marais, Mich. Filed June 3, 1920. Serial No. 386,302. 4 Claims. (Cl. 180—5.)



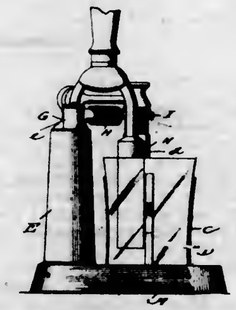
1. In a motor sleigh, the combination with a chassis including front and rear axles, and drive wheels carried by the rear axle, of a sleigh attachment including a dead axle arranged intermediate the rear axles, spreader arms carried by the forward ends of the chassis and connected to said dead axle, shock absorbing springs arranged intermediate the dead axle and the chassis, and slidably carried by the chassis, idler wheels carried by the terminals of the dead axle, traction bands trained around the rear drive wheels, and the idler wheels, and means for regulating the active strength of the spreader bars, for moving said dead axles and springs whereby the tension of the traction bands can be regulated.

1,425,836. ANNULAR-BEARING PULLER. ERNEST P. CAMPBELL, Stockton, Calif. Filed Feb. 7, 1921. Serial No. 442,919. 1 Claim. (Cl. 29—85.)



An annular bearing puller comprising a pair of arms extending in the same direction in a common plane, being flexibly connected together at one end, the other end of said arms being formed to engage the outer surface of a bearing, a yoke connected to one arm and through which the other arm extends with freedom of movement, and a turnable screw mounted in the yoke and adapted to engage the free arm to limit the spacing between said arms at the bearing engaging end thereof.

1,425,837. DISPENSING APPARATUS. DAVID H. CLARK, Orangeburg, N. Y. Filed July 2, 1921. Serial No. 482,119. 20 Claims. (Cl. 219—19.)

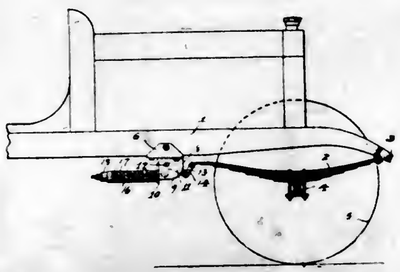


4. A dispensing apparatus having a stand provided with a horizontal, vertically journaled arm; a holder journaled in the arm and capable of being tilted about a horizontal axis; said holder adapted to suspend therefrom a container for the material to be dispensed; electrical contacts on the stand and a conductor connecting therewith; and an electric immersion heater interchangeably mounted on said stand.

1,425,838. PRODUCTION OF GLYCERIN BY FERMENTATION. ALLEN T. COCKING, Sutton Coldfield, and CECIL H. LILLY, Birmingham, England. Filed Aug. 23, 1920. Serial No. 405,300. 9 Claims. (Cl. 195—20.)

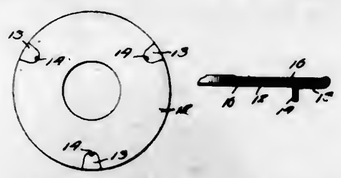
2. A process which consists in the fermentation by a yeast of a solution containing a fermentable sugar with such proportions of sodium sulphite and sodium bisulphite as will produce a mixture of mash and salts which is approximately neutral to litmus.

1,425,839. SPRING SUSPENSION. EDMUND A. CURTIS, Chicago, Ill., assignor, by direct and mesne assignments, to Curtis Engineering Corporation, Chicago, Ill., a Corporation of Illinois. Filed Mar. 22, 1919. Serial No. 284,395. 7 Claims. (Cl. 267—19.)



4. The combination with a vehicle having an axle and a body frame, and an elongated leaf spring resiliently supporting the frame on the axle; of a housing secured to the frame adjacent one end of the leaf spring and having a pair of parallel side-plates; a bell crank pivoted between and slidably engaging the side-plates of the housing and having a long arm and a short arm, a link connecting the long arm with the end of the leaf spring and a spring connected with the short arm of the bell crank to yieldingly resist pivotal movement of the bell crank.

1,425,840. ATTACHABLE PLATE AND METHOD OF MAKING THE SAME. FRANK G. DAVISON, Boston, Mass. Filed May 29, 1920. Serial No. 385,248. 6 Claims. (Cl. 113—116.)



1. A plate having marginal portions bent inwardly therefrom and rigidly secured flatwise against the rear surface of the plate, said marginal portions having their tips extending at a right angle to the plate to provide attaching feet.

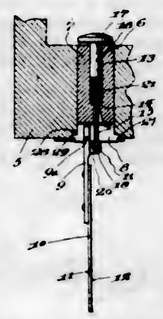
5. The method of making a sheet metal article having attaching feet, consisting in forming a blank comprising a plate having marginal extensions, then converting the outer portions of the extensions to substantially cylindrical form and bending said outer portions upwardly relatively to the face of the plate, and then bending the entire extension in the reverse direction to position to locate the cylindrical portions at the back of the plate.

1,425,841. ATTACHABLE PLATE AND METHOD OF MAKING THE SAME. FRANK G. DAVISON, Cambridge, Mass. Filed July 25, 1921. Serial No. 487,342. 7 Claims. (Cl. 113—116.)



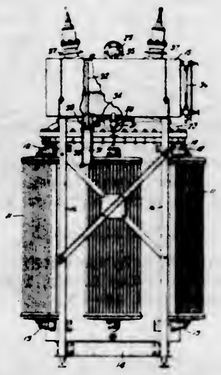
1. A plate having feet each of which is composed of a plurality of interlocked members integral with the plate at different portions of the latter.

1,425,842. VEHICLE SIGNAL. OSCAR L. DENNES, Ardmore, Okla. Filed Mar. 27, 1922. Serial No. 547,056. 5 Claims. (Cl. 116—52.)



1. In a vehicle signal, a casing having a transverse slot at one end thereof, a longitudinal bore therethrough and a circumferential shoulder within said bore adjacent said slot; a laterally swinging signal arm pivoted within said slot, said arm being movable to a position with its longitudinal edges flush with the end of said casing, a link formed with an abutment extending through said bore and pivoted to said arm, said abutment being intermediate the ends of said link, a coil spring encircling said link between said shoulder and said abutment for holding said link retracted to maintain said signal arm in position with its longitudinal edges flush with the outer edges of said slot.

1,425,843. CASING FOR ELECTRICAL APPARATUS. WILLIAM O. DWYER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 22, 1920. Serial No. 418,842. 7 Claims. (Cl. 175—361.)



1. The combination with a main casing for electrical apparatus, of an auxiliary casing secured to the main casing and provided with a passage establishing communication with the main casing, and an insulating liquid within said main casing and extending through said passage into the auxiliary casing, said auxiliary casing being provided with a depending portion independent of said passage and located below the entrance of said passage thereinto.

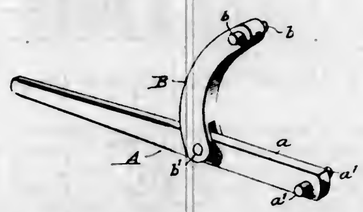
1,425,844. DENTAL CLASP. LAURENT ENGBERG, Barcelona, Spain. Filed Oct. 31, 1919. Serial No. 334,814. 1 Claim. (Cl. 32—12.)

A dental plate having clamp wires arranged near its ends, and each provided at the outer end with an enlargement, said clamp wires being bent toward each other and being of such length and so arranged as to cause said enlargements to engage between the necks of natural



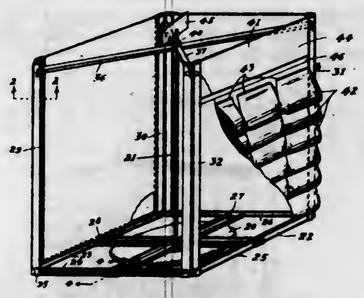
teeth, prevent other portions of said wires from coming in contact with said teeth, and cause said clamp wires to pull rearwardly on the retaining teeth and thereby hold said plate in place.

1,425,845. FLANGE WRENCH. ROBERT B. FOSTER, Wellsville, Ohio. Filed Feb. 23, 1922. Serial No. 538,607. 2 Claims. (Cl. 81—90.)



1. A flange wrench comprising a rigid bar having a swinging arm of crescent-shaped form pivoted thereto near one end so as to provide at one side of said pivotal connection a handle forming the long arm of a lever and at the other side a straight short arm, said short arm and said swinging arm each provided at its free end with laterally projecting pins, and said swinging arm having its concave surface facing said straight short arm.

1,425,846. COLLAPSIBLE DISPLAY STAND. GEORGE M. FRANKS, St. Paul, Minn. Filed Jan. 26, 1921. Serial No. 440,030. 7 Claims. (Cl. 211—20.)



5. A display device comprising a lower rectangular frame member having grooves following the perimeter of the same, standards comprising a pair of metal strips folded over to form interior grooves and soldered together at their corners, legs formed on the ends of said members adapted to straddle the grooved portions of said frame at its corners and a seat formed at the end of said standards for engaging the upper surface of said frame member at its extreme corner.

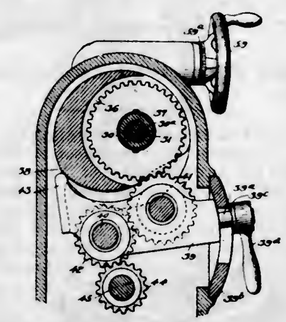
1,425,847. FLOOR COVERING. WILLIAM H. FRAZIER, Chicago, and WILLIAM JOSEPH O'NEILL, Downers Grove, Ill. Filed Sept. 15, 1919. Serial No. 323,915. 4 Claims. (Cl. 72—18.)

1. The method of covering a floor which consists in applying a coat of a suitable bond material, laying thereon a plurality of correspondingly shaped units in approximate edge to edge relation and applying pressure



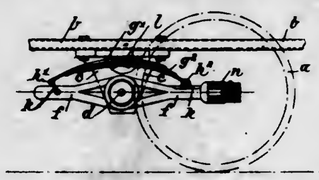
to the units to work them into a continuous monolithic covering.

1,425,848. ADJUSTABLE GEARING FOR MILLING MACHINES. CARL GABRIELSON, Syracuse, N. Y., assignor, by mesne assignments, to Meldrum-Gabrielson Corporation, Syracuse, N. Y., a Corporation of New York. Filed June 10, 1920. Serial No. 388,014. 14 Claims. (Cl. 74—4.)



1. In a machine of the kind described, the combination of a frame, a sleeve rotatably supported thereon, a spindle journaled eccentrically in said sleeve, a gear wheel secured to said spindle, a rocker pivoted on said frame, a gear wheel rotatably supported on said rocker in mesh with said first named gear wheel, means for holding said gear wheels in mesh as the position of said sleeve is changed, and means for driving said rocker-supported gear wheel.

1,425,849. SPRING SUSPENSION FOR VEHICLES. EDMOND JEAN LEON GAUTHIER, Paris, France. Filed July 2, 1920. Serial No. 393,764. 12 Claims. (Cl. 267—19.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

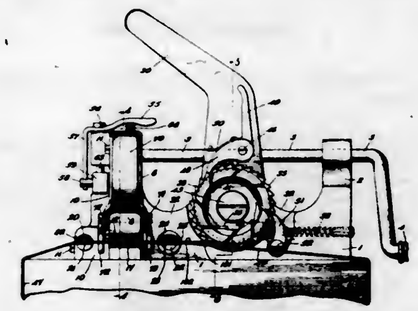


1. A spring suspension for vehicles, comprising a supporting member mounted below the vehicle frame, a lever pivoted on said member, a vehicle axle mounted on one end of the lever, and plate springs so disposed between the lever and the vehicle frame as to create a return torque.

1,425,850. WIRE TENSIONING AND TWISTING MACHINE. ALEC J. GERRARD and PARVIN WRIGHT, Chicago, Ill. Filed Oct. 22, 1920. Serial No. 418,634. 17 Claims. (Cl. 140—93.)

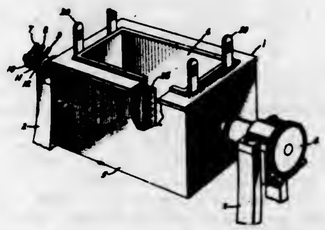
1. In a wire tying machine the combination of means comprising a rotating member for exerting a tension on the wire; means for twisting said wire while under

tension; and pivoted means adapted to positively disengage the twisted wire from said twisting means upon



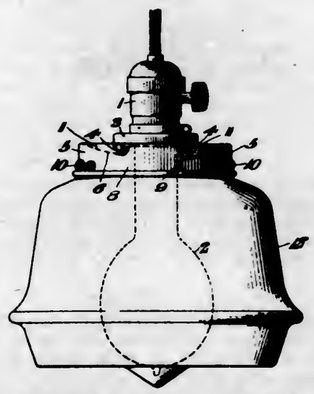
the completion of the twisting operation, substantially as described.

1,425,851. METAL-TREATING APPARATUS. JOHN F. GILLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 2, 1920. Serial No. 414,195. 5 Claims. (Cl. 91—12.2.)



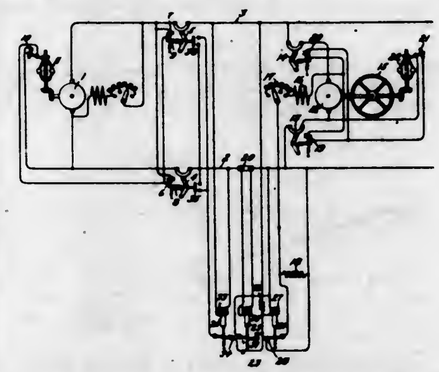
1. A metal treating apparatus comprising the combination of a rotatable container, a closure for the same, means for heating said container, a receptacle fitted within said container but removable therefrom.

1,425,852. INTERCHANGEABLE GLOBE HOLDER FOR AN ELECTRIC LIGHT. EDGAR A. GILLINDER, Philadelphia, Pa. Filed Dec. 13, 1921. Serial No. 522,083. 5 Claims. (Cl. 240—111.)



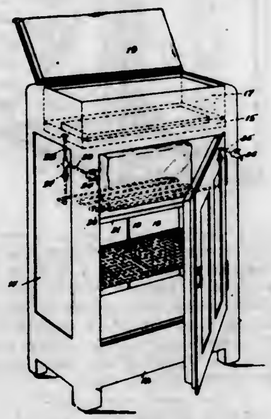
1. An interchangeable globe holder for an electric light consisting of a collar adapted to have a globe of large diameter held thereon, and means on said collar for connecting it with the collar on the fixture of the light with which a globe of less diameter is adapted to be held, the former named collar having in its top wall a channel in which the base of the light-fixture may be seated.

1,425,853. SYSTEM OF ELECTRICAL DISTRIBUTION. CARL H. GIROUX, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 2, 1920. Serial No. 414,193. 5 Claims. (Cl. 171—312.)



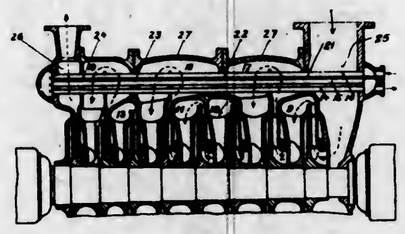
1. In combination, a source of electrical energy, a circuit supplied thereby, means for disconnecting said source from said circuit, a dynamo electric machine whose rotating member has large inertia electrically connected to said circuit, and a voltage regulator controlled by said disconnecting means and arranged to cause said dynamo electric machine to supply power to said circuit at a predetermined voltage when said source is disconnected from said circuit.

1,425,854. ICE BOX. MIGUEL GONZALEZ, New York, N. Y. Filed Aug. 27, 1921. Serial No. 496,004. 8 Claims. (Cl. 62—39.)



1. An ice box provided with a horizontally disposed partition forming the interior of the box into an upper water containing compartment and a lower ice containing compartment, said water containing compartment provided with a horizontal partition constituting a filter and forming an upper unfiltered water compartment and a lower filtered water compartment, a water conduit including a coil within the ice containing compartment, said conduit having its intake end opening from the filtered water compartment and having its discharge end below the water containing compartment.

1,425,855. COOLING DEVICE IN MULTISTAGE CENTRIFUGAL COMPRESSORS. BENJAMIN GRAEMIGER, Zurich, Switzerland. Filed Dec. 1, 1920. Serial No. 427,564. 5 Claims. (Cl. 230—6.)

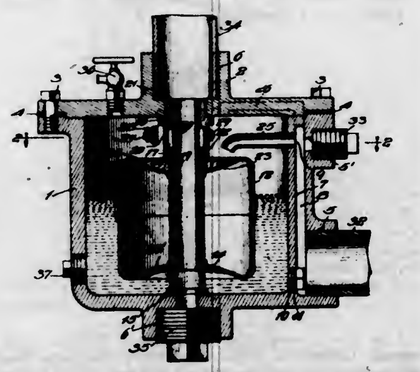


1. In a multistage centrifugal compressor, a cooling device comprising cooling channels arranged substantially parallel to the axis of the compressor and passing through some of the pressure-stages of the compressor, and the remaining pressure-stages so arranged that they are not intersected by said cooling channels.

1,425,856. PROCESS OF CUTTING METALS WITH GASEOUS FUEL. JOHN HARRIS, Lakewood, Ohio, assignor to Carbo-Oxygen Company, Pittsburgh, Pa., a Corporation of Delaware. Continuation of application Serial No. 62,442, filed Nov. 19, 1915. This application filed Aug. 16, 1920. Serial No. 403,839. 3 Claims. (Cl. 148—9.)

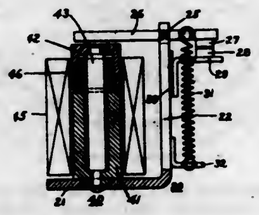
1. The process of cutting metal which consists in directing against the same one or more preheating jets consisting each of an ignited mixture of substantially pure oxygen with hydrogen charged with the vapor of a volatile liquid hydrocarbon or hydrocarbon derivative, and directing against the metal thus preheated a jet or stream of substantially pure oxygen.

1,425,857. WATER-SEALED VACUUM AND PRESSURE TRAP. AMOS HARRISON, Chicago, Ill., assignor to Jas. P. Marsh & Company, Chicago, Ill., a Corporation of Illinois. Filed June 21, 1920. Serial No. 390,571. 12 Claims. (Cl. 137—103.)



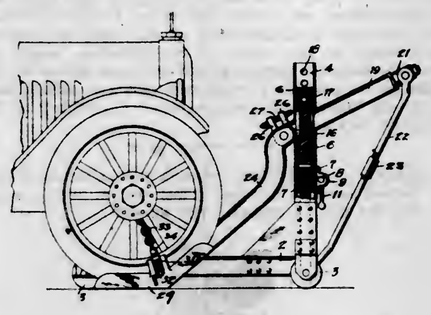
1. In a device of the kind described and in combination, a casing provided with an inlet and having a plurality of outlets, means for normally closing one of said outlets, a tubular valve arranged to control either outlet, a float mounted on said valve for controlling said valve, and means for discharging water about the valve above the float to maintain a water seal thereat.

1,425,858. TEMPERATURE-COMPENSATED REGULATOR. JOHN H. HUNT, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 16, 1920. Serial No. 410,801. 5 Claims. (Cl. 175—336.)



1. In a regulator, the combination with an armature for controlling a circuit; of a frame supporting said armature; an electromagnet including a controlling winding, and a magnet core member, and temperature responsive means for varying the position of the core with respect to the frame whereby to vary the air gap between the magnet core and armature.

1,425,859. AUTOMOBILE CRADLE. ALEXIS JAKOVLEFF, San Francisco, Calif., assignor to Herbert M. Shirek, San Francisco, Calif. Filed Oct. 25, 1920. Serial No. 419,409. 11 Claims. (Cl. 254—92.)

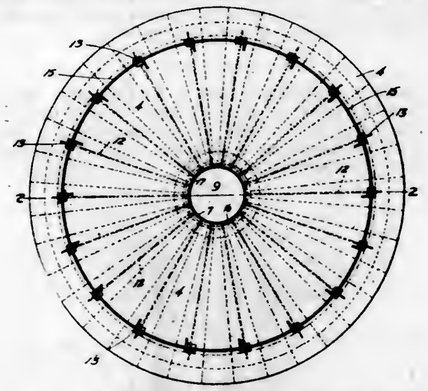


1. A vehicle cradle comprising a frame, an arm mounted on said frame, wheel seats arranged on said arm and normally resting on the floor whereby the wheels of the vehicle at one end may be rolled off of the floor upon the seats, means for moving said arm to raise said wheel seats, and means for turning said arm about a horizontal axis.

1,425,860. SILO ROOF. ALLEN D. W. JOHNSON, Anoka, Minn. Filed Oct. 2, 1919. Serial No. 327,916. 8 Claims. (Cl. 108—32.)

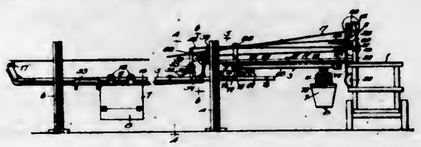
1. A building roof having a central ring and a flange radiating therefrom, slabs having their inner ends seated

on said flange, reinforcing rods provided longitudinally in said slabs and projecting therefrom into a space pro-



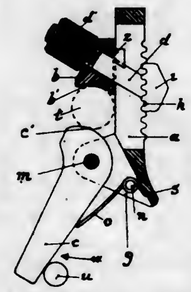
vided between said slabs and said ring, and a plastic material for closing the joint between said slabs and ring and said flange.

1,425,861. CONVEYING APPARATUS. WALTER L. JONES, Earlville, Ill. Filed July 10, 1920. Serial No. 395,193. 11 Claims. (Cl. 214—60.)



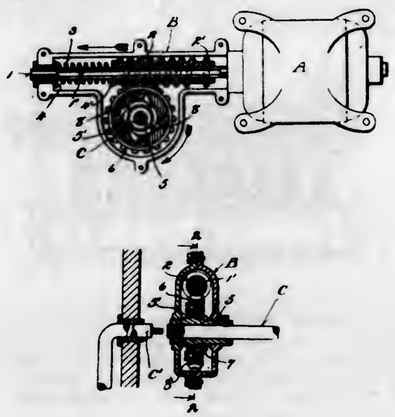
1. In a conveying system, an elevated track, a bucket adapted to hang from and to travel on said track, operating means for moving the bucket in both directions on the track, a movable stop on the track for stopping the travel of the bucket in one direction, means extending from the vicinty of the operating means for adjusting the position of said stop, and a relatively fixed stop for limiting the movement of the bucket in the opposite direction.

1,425,862. LATHE DOG. VICTOR TEODOR JULIN, Djursholms-Danderyd, Sweden. Filed Oct. 6, 1921. Serial No. 505,933. 3 Claims. (Cl. 82—41.)



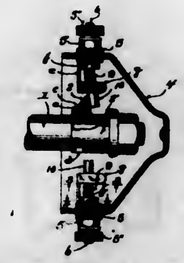
1. A lathe dog comprising, a main body having a longitudinal slot, a press member, means for adjusting said press member relatively to said main body, said means comprising a screw extending through said press member and through the aforesaid slot, a head carried by said screw and engaging said main body, and a lever mounted on said main body and provided with an eccentric surface.

1,425,863. AUTOMATIC REWIND MECHANISM FOR MOTORS. WILLIAM KABBEL, Milwaukee, Wis. Filed Feb. 10, 1921. Serial No. 443,937. 1 Claim. (Cl. 185—40.)



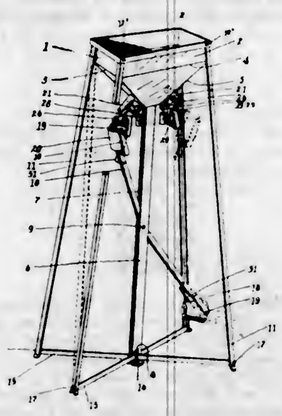
In a rewinding device for a prime motor having a winding shaft, provided with a coupling and a manually operated crank engageable with the coupling; the combination of a bushing secured to the winding shaft, a one-way ratchet wheel carried by the bushing, a worm wheel loosely mounted upon the bushing, pawls carried by the worm wheel engageable with the ratchet wheel, an electric motor having a keyed shaft extension, a worm mounted upon the shaft extension adapted to rotate with and to move longitudinally thereof a housing for the shaft extension provided with apertures constituting bearings for the bushing, a spring interposed between one end of the worm and housing to oppose movement of said worm in one direction, a tappet carried by the worm and an electric circuit make and break contact mechanism controlled by the tappet.

1,425,864. TIMER. ADAM W. KAUFMAN, Milwaukee, Wis. Filed July 26, 1921. Serial No. 487,653. 6 Claims. (Cl. 200—24.)



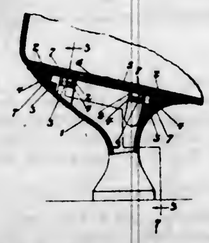
1. A timer comprising a relatively rotated cam and contact brush, the same including a normally straight coil sectional spring, capable of yielding in all directions, and a guide for directing movement of the coil spring brush in a single plane.

1,425,865. SAND TOY. GEORGE A. KEHL, St. Paul, Minn. Filed May 2, 1921. Serial No. 465,978. 4 Claims. (Cl. 46—37.)



1. In a sand toy, the combination, a frame, a hopper supported by the frame and having a pair of oppositely disposed downwardly directed discharge openings positioned symmetrically about a vertical axis, separate valve mechanism for each of said openings, said mechanism consisting of a lever formed with a valve, said lever being pivoted adjacent the discharge opening to swing upwardly against said hopper to thereby cover said opening and having an arm extending below its pivot, means constantly tending to swing said lever upwardly, a beam pivoted midway between its ends in said vertical axis below said valve mechanism and having a bucket, one at each end thereof, pivotally mounted, so as to swing in the vertical plane of said discharge openings and against said extending arm to move it, and means connected with said beam for restricting the swinging movement of said buckets.

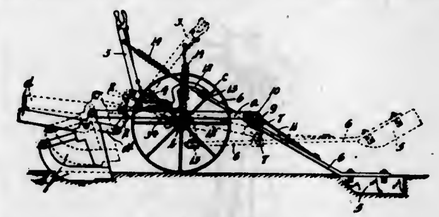
1,425,866. METALLIC HEEL. RAYMOND R. KIRSCH, St. Louis, Mo. Filed Mar. 24, 1921. Serial No. 455,355. 5 Claims. (Cl. 36—40.)



1. In a metallic heel the combination with a hollow metallic heel body having recesses in the upper portion thereof opening inwardly, and shoulders extending inwardly below said recesses, of a metallic retaining plate adapted to be attached to the heel portion of the shoe, and tongues in connection with said heel plate adapted by pressing action against said shoulders to be bent into said recesses.

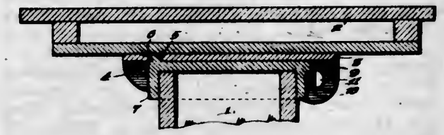
1,425,867. CORN-PLANTER ATTACHMENT. ANTON C. KUBICEK, Blooming Prairie, Minn. Filed Sept. 2, 1921. Serial No. 497,934. 2 Claims. (Cl. 111—61.)

2. The combination with a corn planter and the wheeled frame thereof, of a vertical blade disposed at some distance from the wheels and adapted to travel in the ground and disposed in a plane parallel to the direction of travel of the machine, a rod for supporting said shoe, means pivoted on the frame for supporting



said rod, a sleeve slidable on the end of said rod, and a lever rigidly connected to said sleeve whereby when the lever is swung the blade will be raised to an inoperative position.

1,425,868. TABLE CLAMP. FRED LA POINT, Wheeling, W. Va. Filed Mar. 25, 1922. Serial No. 546,703. 6 Claims. (Cl. 45—48.)



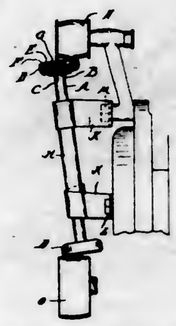
2. In a device of the class described, the combination of a supporting means, a shaft rotatably mounted upon said supporting means, said shaft having a cut-out portion, means for rotating said shaft, an engaging member having a spur and a lug, said supporting means having a slot, said spur being adapted to fit within said slot and said lug being adapted to be engaged by said shaft, as and for the purposes set forth.

1,425,869. TOY. HOWARD R. LARSEN, Milwaukee, Wis. Filed May 3, 1921. Serial No. 466,381. 5 Claims. (Cl. 46—40.)



1. A toy comprising a tubular handle portion, a rod movable in the handle portion, a head portion having a fanciful configuration carried at one end of said rod, and means for imparting a reciprocatory movement to said rod.

1,425,870. FRICTION DRIVE FOR FANS. JOHN H. LEITCH, Detroit, Mich., assignor to Auto Accessories Mfg. Co., Detroit, Mich., a Corporation of Michigan. Filed Dec. 5, 1921. Serial No. 519,899. 7 Claims. (Cl. 74—26.)



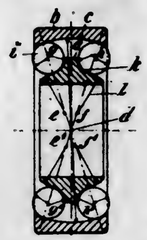
1. In an engine, the combination with a fan pulley, a drive pulley therefor, of a shaft arranged obliquely between said pulleys, friction wheels upon opposite ends of said shaft having marginal contact with respective pulleys, and a bearing for supporting said shaft secured to the engine casing.

1,425,871. MECHANICAL PENCIL. JOHN G. LIDDELL, Everett, Mass., assignor to Moore Pen Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1921. Serial No. 522,250. 1 Claim. (Cl. 120—18.)



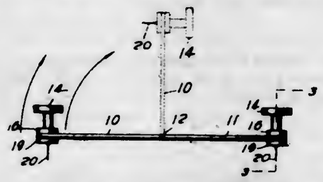
In a mechanical pencil, a barrel, having a fixed hollow bearing, non-circular in cross section, at its forward inner end and a rotatable bearing projecting from its rear end; a hollow screw supported axially of the barrel, between the two bearings, for rotation; a nut, within the hollow screw; a lead-carrying tube, non-circular in cross-section, axially supported at its rear end by the nut within the hollow screw, and supported at its front end within the hollow fixed bearing at the front end of the barrel, the carrier tube being slotted on one side at its rear end and headed behind the nut; a collar fast on the lead-carrying tube; a spiral spring surrounding the carrier tube and interposed between the collar and the nut; an ejector wire within the carrier tube, engaging the nut through the slot in the carrier at its rear end; all combined and operating substantially as described.

1,425,872. BALL BEARING. KONRAD WERNER LINDMAN, Stockholm, Sweden, assignor, by mesne assignments, to Nordiska Kullager Aktiebolaget, Stockholm, Sweden, a Limited Company of Sweden. Filed Apr. 10, 1918. Serial No. 227,616. 4 Claims. (Cl. 64—36.)



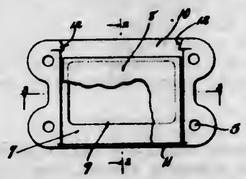
4. In a double row ball bearing, the combination of an outer ring having its inner face formed as a spherical ball path with its center at the center line of the bearing, an inner ring with its outer surface in the form of symmetrical ball paths on each side of a transverse medial plane, each ball path having in cross section the form of an S-shaped curve composed of a concave portion lying toward said medial plane and a convex portion extending toward the end of the ring, and a plurality of balls between the ball path of the outer ring and each ball path of the inner ring, the normal position of each of said balls being such that its center lies on a radius of curvature of the outer ball path passing between the said concave and convex portions of the inner ball path, the space between the edges of the inner ring and the outer ring at the outer sides of said rings being at least as great as the diameter of the balls.

1,425,873. COPY FASTENER. WILLIAM C. LINEAWEAVER, Fort Sill, Okla., assignor of one-half to Worthington Swift, Lawton, Okla. Filed Apr. 12, 1921. Serial No. 460,760. 7 Claims. (Cl. 85—10.)



1. A copy holder comprising a pair of bars hinged together and provided upon opposite ends of the hinge with spaced perforations, penetrating points secured in the perforations, and means carried by the bars and the perforations for manual control of the device.

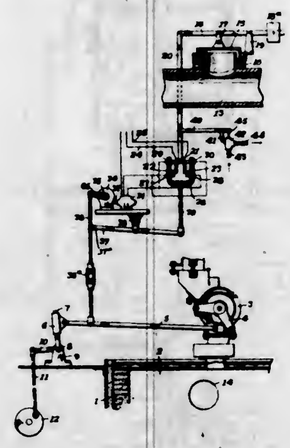
1,425,874. SHIPPING-CARD HOLDER. WILLIAM F. LUICK, Milwaukee, Wis. Filed Mar. 18, 1921. Serial No. 453,201. 3 Claims. (Cl. 40—16.)



1. A shipping card holder comprising a skeleton frame provided with means for attaching it to a receptacle, the

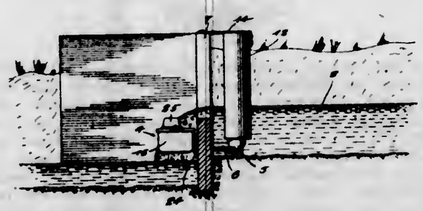
underside of said frame being offset to provide a shallow pocket having a throat through which the card may be inserted, opposed lugs extending from the opposite sides of the throat, the distance between the lugs being less than the width of the card to be inserted, said lugs operating on the mere insertion of a card to retain said card, and prevent the withdrawal thereof.

1,425,875. REGULATING MECHANISM FOR GAS PRODUCERS. CHARLES W. LUMMIS, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 5, 1918. Serial No. 248,477. 14 Claims. (Cl. 48—87.)



1. In a gas supply system, the combination with a member movable in response to fluctuations in the demand for gas, of means controlled by the movement of said member for increasing or decreasing the rate of supplying fuel for gasification to said system.

1,425,876. WATER METER. RAY JAY LYMAN, Berkeley, Calif. Filed July 18, 1919. Serial No. 311,701. 5 Claims. (Cl. 73—68.)



1. The combination with a water damming device extending across a stream, of a water meter at the down-stream side of said damming device, an upstanding passage in the body of water trapped by said damming device, said passage having a series of vertically spaced water inlet openings, the endmost of which are located approximately at high and low water levels respectively, and a connection extending laterally from the lower end of said passage to the down-stream side of said water damming device and discharging into said water meter.

1,425,877. DRESS FORM. JAMES MCCARTHY, Long Island City, N. Y., assignor to Hall Borchert Dress Form Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 22, 1919. Serial No. 332,513. 4 Claims. (Cl. 211—13.)

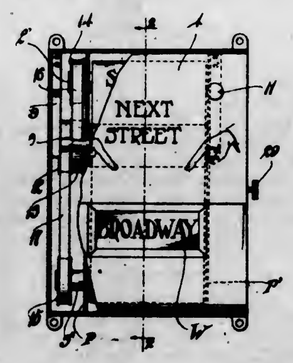


1. A dress form having a hollow rigid, non-adjustable, one-piece body formed of papier mâché and provided with a low ridge integral with the wall and extending vertically along the medial line.

1,425,878. METHOD OF WATERPROOFING VULCANIZED FIBER. JAMES MCINTOSH, Norristown, Pa., assignor to Diamond State Fibre Company, Elsmere, Del., a Corporation of Delaware. Filed Mar. 27, 1920. Serial No. 369,291. 3 Claims. (Cl. 91—68.)

1. The method which consists in immersing wet vulcanized fiber in a water-proofing liquid until it has become impregnated therewith; and thereafter drying said fiber to free it of the water.

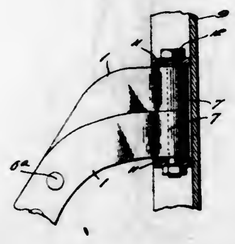
1,425,879. STATION INDICATOR. HIRAM MCNICHOLAS, Connell, Wash. Filed Jan. 15, 1920, Serial No. 351,553. Renewed Jan. 14, 1922. Serial No. 529,369. 3 Claims. (Cl. 40—86.)



1. The combination with an inclosing casing with a web and supporting rollers, of an intermediate driving shaft and a drive roller thereon and an idle friction roller, said casing having bearing slots and a shaft for the friction roller journaled in said slots, an adjustable spring bearing against said latter shaft to cause engagement of the web between the driving roller and

friction roller, pulleys fixed on the intermediate shaft and complementary pulleys on the supporting rollers and slip belts connecting said pulleys, for the purpose described.

1,425,880. COASTER. RUDOLPH A. MACK, Gallipolis, Ohio. Original application filed June 26, 1919, Serial No. 306,941. Divided and this application filed Oct. 27, 1920. Serial No. 419,887. 3 Claims. (Cl. 280—87.5.)



2. In a steering connection for coasters, a post having an opening therein, spaced bearing members in said post, bars, knuckles carried by said bars and alined with each other, the combined lengths of said knuckles being substantially equal to the distance between said bearing members, and a pivot pin carried by said bearing members and passing through said knuckles.

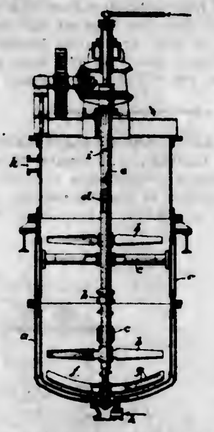
1,425,881. PRIVY. HERBERT ROLAND MAGUIRE, Atherton, Queensland, Australia. Filed Jan. 12, 1920. Serial No. 351,008. 6 Claims. (Cl. 4—18.)



1. In a privy, in combination, a false seat hinged to the main seat, and a lid hinged to the false seat slightly forward of the false seat hinges, a fixed stop on the main seat immediately behind the rear edge of the lid against which the lid can come when open, a lower frontal recess in the stop and a knuckle thereon against which the lid impinges when the false seat rises after being used.

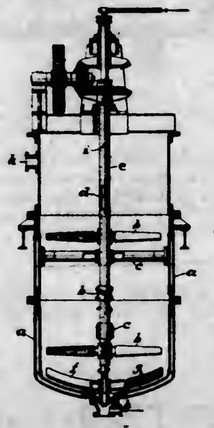
1,425,882. PROCESS OF TREATING HYDROCARBON OILS. HAROLD T. MAITLAND, Marcus Hook, Pa., assignor to Sun Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Apr. 15, 1919. Serial No. 290,227. 2 Claims. (Cl. 196—26.)

1. In the manufacture of a water-insoluble saponifiable product from mineral oil, the process which comprises distilling from the petroleum a relatively heavy distillate adapted for lubricating oil stock, treating the same with sulfuric acid and separating out the sludge with a large part of the acid, treating the remaining body of acid-containing oil with an alkali, separating out the soap and alkaline salt water, decomposing the soap with a relatively weak solution of a mineral acid, and eliminating



most of the salt water, leaving a derivative comprising principally a water-insoluble organic acid.

1,425,883. PROCESS OF TREATING HYDROCARBON OILS. HAROLD T. MAITLAND, Marcus Hook, Pa., assignor to Sun Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Apr. 15, 1919. Serial No. 290,228. 4 Claims. (Cl. 196—28.)

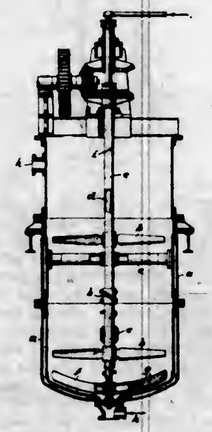


1. The process of making a water-insoluble saponifiable oil from the sludge produced in the treatment with mineral acid of mineral oil stock, which comprises subjecting the sludge to mechanical mastication and concurrently therewith causing water to impenetrate and wash the sludge and dissolve contained mineral acid, the water being heated to such a temperature as to render the sludge of the proper consistency for working, and during the process of washing and mastication supplying fresh water and carrying off the water that has been used for washing, and continuing the process until the mineral acid content is sufficiently reduced to leave the water-insoluble saponifiable oil specified.

1,425,884. MINERAL-OIL DERIVATIVE. HAROLD T. MAITLAND, Marcus Hook, Pa., assignor to Sun Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Apr. 15, 1919. Serial No. 290,229. 2 Claims. (Cl. 87—5.)

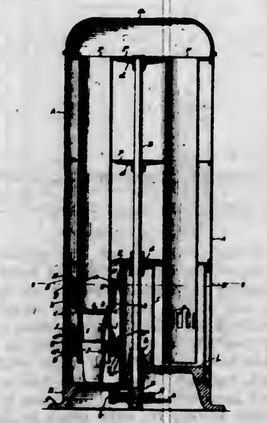
1. As a new product, the herein described derivative from mineral oil, the same being a liquid, insoluble in water, practically odorless, which does not become rancid and containing a minute percentage of sulfur less than one per cent, the same also being readily saponifiable and when saponified being soluble in all proportions with water and mineral oil and adapted to undergo the character of hydrolytic decomposition that occurs with soaps derived from animal and vegetable oil.

1,425,885. MINERAL OIL DERIVATIVES. HAROLD T. MAITLAND, Sharon Hill, Pa., assignor to Sun Company, Philadelphia, Pa., a Corporation of New Jersey. Filed January 26, 1921. Serial No. 439,948. 2 Claims. (Cl. 87—5.)



1. As a new product, the herein described derivative from mineral oil, the same being water-insoluble, solid at ordinary temperatures, practically odorless, which does not become rancid, and containing a relatively small percentage of sulfur less than about one per cent; the same also being readily saponifiable and when saponified being soluble in all proportions with water and partially soluble in mineral oil and adapted to undergo the character of hydrolytic decomposition that occurs with soaps derived from animal and vegetable oil.

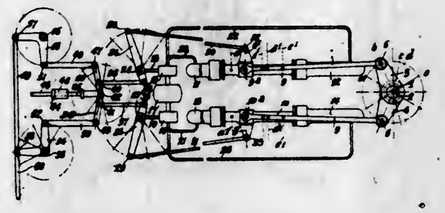
1,425,886. DRINKING-CUP DISPENSER. PAUL MAIWURM, Mansfield, Ohio. Filed Feb. 21, 1921. Serial No. 446,982. 5 Claims. (Cl. 211—8.)



1. In a device of the character described, the combination with a cylindrical body and supporting base,

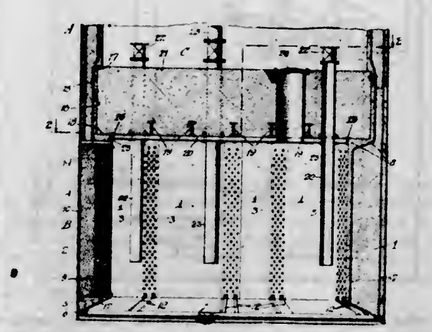
of a rotary standard mounted to rotate vertically therein; a plurality of disks mounted horizontally on said standard to rotate therewith having a plurality of apertures; a series of tubes suspended vertically in said apertures, respectively; a plurality of drinking-cups set together in said tubes, respectively, and means for segregating the lowest from the next lowest cup in each tube, progressively, and for delivering it singly in an open space of said body by the revolution of said tubes around said standard, step by step.

1,425,887. OPERATING MECHANISM OF KITCHEN REVERSING RUDDERS. FRANCIS LEIGH MARTINEAU, London, England. Filed Oct. 27, 1920. Serial No. 419,919. 2 Claims. (Cl. 114—145.)



1. Kitchen rudder operating mechanism provided with starboard and port tiller operating mechanism each consisting of a floating lever connected at one end by a connecting rod to a double ended ram or plunger working in cylinders and adapted to be operated by a variable throw or delivery pump having a controlling spindle connected to a slide carrying the fulcrum of the said floating lever, the other end of the floating lever being connected by a link to the fulcrum of a secondary floating lever of which one end is adapted to be moved by reversing and speed controlling mechanism adapted to be operated directly by the operator, the other end of the secondary floating lever being connected by a link to one arm of a bell crank lever of which the other arm is connected to mechanism operable by steering gear adapted to be operated directly by the operator.

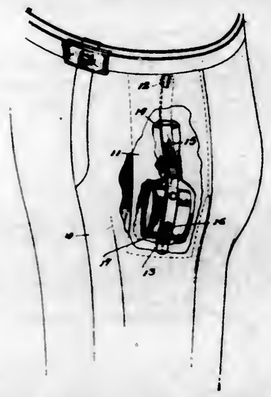
1,425,888. WELL. DABNEY H. MAURY, Evanston, Ill. Filed Oct. 22, 1921. Serial No. 509,539. 12 Claims. (Cl. 166—5.)



1. In a well of the type specified, the combination of an inlet terminal, and a superposed well casing, said inlet terminal comprising strainer plates, means for supporting said strainer plates in spaced relation, means for closing the bottom of the space between said strainer

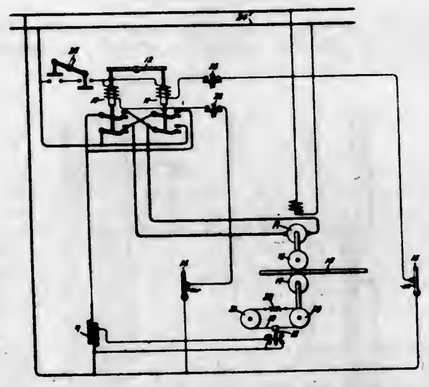
plates, and filtering material contained in said space, said inlet terminal forming a structure which may be built complete before sinking and sunk as a complete unit ready for use, substantially as described.

1,425,889. SAFETY PURSE. JOSEPH MEISNER, New York, N. Y. Filed May 2, 1921. Serial No. 466,138. 2 Claims. (Cl. 2—152.)



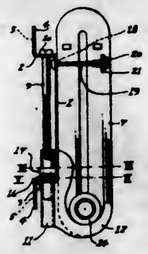
2. In a garment having a pocket provided with an interior opening and an exterior opening, a flexible member passing through the interior opening and having an eyelet on its exterior end, means attached to the interior of the garment for receiving the eyelet of the flexible member, a purse, means for attaching the purse to the flexible member within the pocket, and means for fixing the interior end of the flexible member to the interior of the pocket.

1,425,890. AUTOMATIC REVERSING CONTROL. WILBUR L. MERRILL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 14, 1921. Serial No. 507,732. 5 Claims. (Cl. 172—240.)



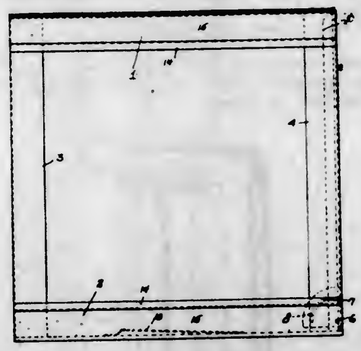
1. The combination with a reversible electric motor operable in each direction between predetermined limits, a pair of alternately closed normally energized electromagnetic reversing switches for controlling the direction of operation of said motor, means for preventing either of said switches from closing while the other is closed, and means whereby at each limit of operation of the motor the reversing switch which is closed is temporarily deenergised to permit the other reversing switch to close and thereby reverse the motor and then energised when the motor is reversed so as to close when the said other reversing switch is temporarily deenergised at the other limit of operation.

1,425,891. RADIATOR HANGER. JOHN W. MOORE, Detroit, Mich. Filed Oct. 3, 1921. Serial No. 505,026. 1 Claim. (Cl. 248—30.)



Means for supporting a radiator or the like, comprising a bracket having upper and lower horizontal walls, said bracket having a longitudinal slot meeting an opening in the lower horizontal wall of the bracket, a blade-like radiator support extending through the slot of said bracket and having a rolled edge forming a barrel behind said bracket, which barrel extends through the opening in the lower horizontal wall of said bracket, a suspension member carried by the upper horizontal bracket wall and extending into the barrel of said radiator support, the barrel of said radiator support having a slot therein, a nut in the slot of the barrel of said radiator support and engaging said suspension member to hold said radiator support relative thereto, and means carried by the upper end of said bracket to cooperate with said radiator support in holding a radiator.

1,425,892. UNIT CABINET CONSTRUCTION. CLIFFORD E. MOULTON, Ravenna, Ohio. Filed Aug. 19, 1921. Serial No. 493,534. 5 Claims. (Cl. 45—2.)



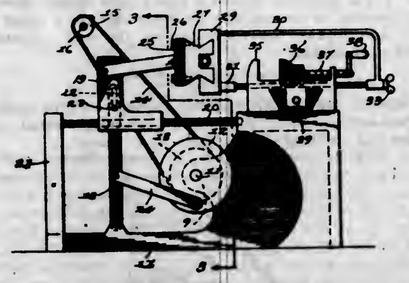
5. In unit cabinet construction, the combination of base members having a series of spaced folds in their tops, and a plurality of units comprising an open frame having its top and bottom formed of a single piece of metal having folds in its top and bottom, such folds being reversed as to position to allow the units to be interlocked with said base members and with similar units, one side of each top and bottom frame having its edge rebent to form a locking fold, the other side of each top and bottom frame having its edge offset to form a lip adapted to lock within such locking fold on adjacent similar units to form a cabinet.

1,425,893. MILLING CUTTER. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Oct. 20, 1920. Serial No. 418,143. 10 Claims. (Cl. 76—45.)



1. A milling cutter having the cutting faces of its teeth arranged both helically and in rings perpendicular to the axis of the cutter.

1,425,894. STEEL-CUTTING MACHINE. JÖZEPH PITRUS, Chicopee Falls, Mass. Filed Mar. 17, 1921. Serial No. 453,057. 2 Claims. (Cl. 20—73.)



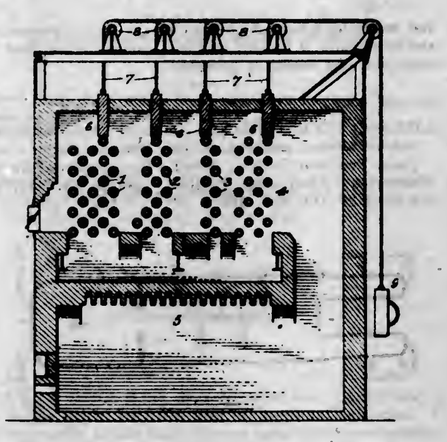
2. In a steel cutter of the character described comprising a table, a plurality of hack saws mounted for reciprocatory movement on said table, means for imparting to said saws their reciprocatory movement, a plate below said saws, stationary upright jaws on said plate, a plurality of screws, sliding jaws at the inner end of said screws, crank handles for operating said screws to clamp a piece of steel to be cut by said saws between said stationary and said movable jaws, a rod provided with left and right hand thread, and a handle on said rod for operating the same to adjust the distance between the two outer pairs of jaws and the intermediate pair in accordance to the length of the pieces into which the steel piece is to be cut.

1,425,895. SPOOL. WILLIAM A. PRENTISS, Holyoke, Mass. Filed Mar. 16, 1921. Serial No. 452,731. 5 Claims. (Cl. 242—116.)
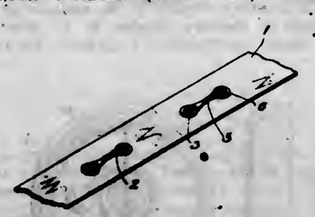


3. A spool, comprising a fixed and a removable head, a core portion, a thread formed thereon to receive the removable head, means separable from the head proper for locking the head to the threaded portion, said means comprising a threaded ring, and means for retaining the ring in place.

1,425,896. DAMPER CONTROL FOR OIL STILLS. JOHN PRIMROSE, New York, N. Y., assignor to Power Specialty Company, New York, N. Y., a Corporation of New York. Filed Sept. 16, 1920. Serial No. 410,652. 2 Claims. (Cl. 196—9.)



1. In a fractional still, the combination with a chamber for the passage of the hot furnace gases, of a plurality of banks of tubes or heating surfaces supported but not occupying all of the sectional space therein, of a series of refractory baffles suspended in vertical line with the said banks in the spaces not occupied by the same and adjustable to vary the passage through such spaces, whereby more or less of said spaces may be closed or opened and the proportion of hot gases sweeping the banks thereby varied and controlled.

1,425,897. EYE FOR GARMENTS. LOUIS M. RABINOWITZ, New York, N. Y. Filed Nov. 26, 1920. Serial No. 426,340. 7 Claims. (Cl. 24—227.)



1. A device of the class described, comprising a strip of metal, the end portions of which are provided with integrally formed means adapted for attaching it to textile material, said strip having its intermediate portion outwardly bowed, and of gradually reduced width, the point of maximum reduction substantially coinciding with the point of extreme bowing.

1,425,898. INFANT'S BAND. HARRIET LYONS REDMOND, Boston, Mass., assignor to The William Carter Company, Needham Heights, Mass., a Corporation of Massachusetts. Filed June 7, 1921. Serial No. 475,906. 5 Claims. (Cl. 128—169.)

1. An infant's or like band having near one end only a transversely extending slit, the walls of which overlap

to provide extra reenforcing thickness and through which slit the opposite end of the band is adapted to be passed,



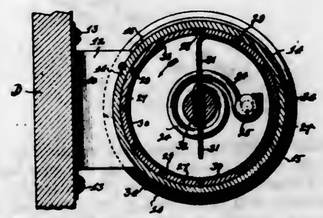
and fastening means extending through said opposite end and both walls of the slit whereby tearing of the band by said fastening means is prevented.

1,425,899. INFANT'S BAND. HARRIET LYONS REDMOND, Boston, Mass., assignor to The William Carter Company, Needham Heights, Mass., a Corporation of Massachusetts. Filed June 7, 1921. Serial No. 475,809. 3 Claims. (Cl. 128—169.)



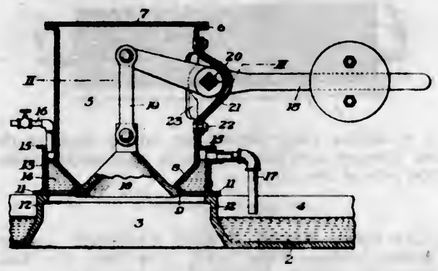
1. An infant's band having a pair of slits at the upper and lower edges thereof, in alignment but spaced apart, the material at the outer ends of said slits being secured in overlapping relation whereby said outer ends of the slits are reinforced, a pair of strips extending from one end only of the band at the upper and lower edges thereof, said strips being adapted to be passed through said slits, tapes or ribbons secured to the ends of said strips, and a corresponding number of double tapes or ribbons in looped form secured to the opposite end of the band and adapted to be tied together to secure the band in place.

1,425,900. COMBINED CHECK AND CLOSER. RAYMOND R. RUNDELL, Elmira, N. Y., assignor of one-third to George C. Haesloop, Elmira, N. Y. Filed Oct. 18, 1921. Serial No. 508,489. 7 Claims. (Cl. 16—65.)



2. A combined closer and check device comprising a fixed cylindrical casing, a retarder sleeve fitted within and adapted to frictionally engage the inner surface of said casing, a rotatable shaft disposed within the cylindrical casing, a ratchet spring within the retarder sleeve having one end connected to the rotatable shaft and its other end adapted to engage and disengage the inner surface of said retarder sleeve, and a spring having one end fixed and its other end secured to the rotatable shaft.

1,425,901. FEED HOPPER FOR GAS PRODUCERS. GEORGE L. ROBINSON, Beechview, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,272. 4 Claims. (Cl. 48—86.)



1. A gas producer having a top, a feed hopper removably secured to the top and having a seat for a valve or bell, and means for water-cooling the seat, substantially as described.

1,425,902. MECHANICAL MOVEMENT. LOUIS ROSEN, Edgewater, Colo. Filed Aug. 1, 1921. Serial No. 488,859. 2 Claims. (Cl. 208—37.)

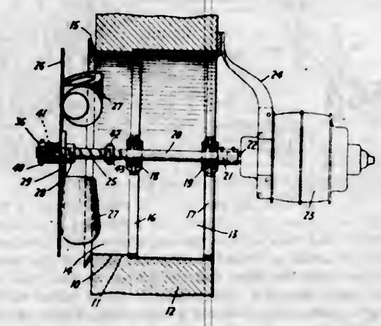


1. A rolling chair comprising a supporting frame (6), a guide wheel (F) pivotally attached to said frame (6) means (12, 13, 14) for controlling said guide wheel, a pair of supporting wheels (R, R') rotatably attached to said frame, a chair (1) supported on pivots (3) spaced from but parallel with the pivots (7) upon which said supporting wheels rotate and adapted to be oscillated back and forth about its pivot, and means comprising a gear sector (28) attached to said chair and engaging with two gear wheels (19, 25) rotatably connected to two parallel spaced pivots (7, 23), cooperating gear wheels (17, 24) mounted on said last named pivots, and ratchet means between the gears on each pivot, whereby the oscillatory movement of said chair will be changed to a rotary movement in one direction and transmitted to one of said supporting wheels for the purpose of propelling said rolling chair in a forward direction.

1,425,903. CLOSABLE VENTILATOR. ADOLPH F. ROTH, Newark, N. J. Filed Sept. 16, 1920, Serial No. 410,694. Renewed Jan. 20, 1922. Serial No. 530,727. 15 Claims. (Cl. 98—27.)

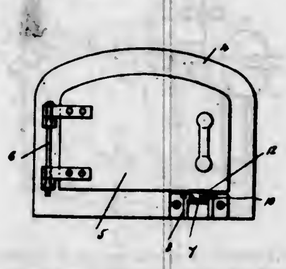
15. A ventilator, comprising a casing having an inlet and an outlet, a power driven spirally grooved shaft journaled in the casing so that one of its ends protrudes beyond the outlet of the casing, a rotatably slidable plate on the shaft at the outlet of the casing, and the plate being of a size to close and open the outlet of the casing, fan blades held on the face of the plate in opposition to the outlet of the casing, the fan blades being adapted to suctionally force atmospheric fluid through the casing for discharge from its outlet and the blades being of sizes and in

arrangement to pass interiorly of the casing, a ball carried by the plate, revoluble in the groove of the shaft for guiding the movement of the plate and fan blades to open positions from the outlet of the casing with the rotation of the shaft, a sleeve held on the shaft, locking means associated with the sleeve and plate to releasably lock the plate and shaft together when the plate is in open position from the outlet of the casing so that the plate and fan blades will revolve with the driving of the shaft, a



spring element associated with the sleeve, adapted to be tensioned by compression when the plate and clutch are in locked engagement and also adapted when the rotation of the shaft is stopped to release the plate from the clutch as well as causing the plate to reversely slide on the shaft to close the outlet of the casing with the fan blades positioned interiorly of the casing, and a stop on the shaft to limit the movements of the plate and fan blades inwardly of the casing.

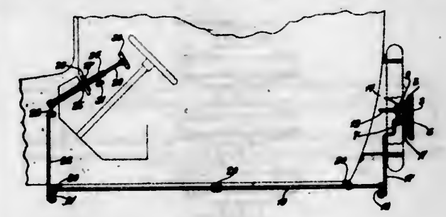
1,425,904. LATCH FOR FURNACE DOORS. WILLIAM SCHOCH, Bryn Mawr, Pa. Filed Oct. 25, 1921. Serial No. 510,301. 1 Claim. (Cl. 292—73.)



The combination, with a vertical door frame adapted to be secured to a boiler furnace, and a door hinged at one end to the frame, of a revoluble latch roller journaled in bearings which project forwardly from the vertical front face of the door frame below the bottom edge of the door and under its free end portion, said roller being adapted to engage with the door and retain it in its closed position.

1,425,905. VEHICLE SIGNAL. RALPH W. SHARTLE, St. Louis, Mo., assignor to Wayne Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 17, 1921. Serial No. 501,223. 3 Claims. (Cl. 116—51.)

1. A device of the character described, comprising a sleeve mounted for rocking movements, a case attached to one end of said sleeve, a glass plate closing the side of said case opposite said sleeve, a lamp socket extending through said sleeve into said case, a lamp supported by said socket within said case, an arm attached to said



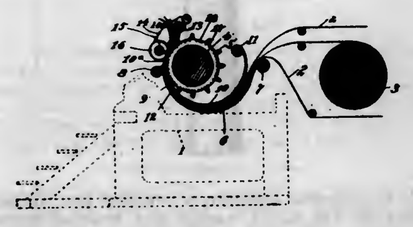
sleeve, and connections from said arm for actuating the same to turn said sleeve in either direction.

1,425,906. ROTARY BRUSH. WILLIAM EDWIN SHERBONDY, Cleveland, Ohio. Filed Nov. 11, 1920. Serial No. 423,284. 3 Claims. (Cl. 15—182.)



1. In a device of the class described the combination of a hollow body provided with a series of apertures, a wooden core, bristle tufts having looped portions adapted to be inserted into said apertures, and clinching means engaging said core and bristle for retaining said tufts in position.

1,425,907. MANIFOLDING TYPEWRITER. JOHN Q. SHERMAN, Dayton, Ohio. Filed Nov. 26, 1919. Serial No. 340,922. 16 Claims. (Cl. 197—133.)

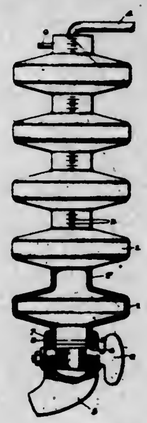


1. In a typewriting machine, the combination with a platen, of a toothed rotary feeding element mounted on an axis on substantially the horizontal plane of the printing point of the platen for engaging successive holes in a plurality of strips of paper and means for guiding said paper past the printing point, said means being adapted to retain the paper substantially loosely while in feeding engagement with the toothed element.

1,425,908. CONTAINER. JAMES J. SCHUMAKER, Cleveland, Ohio. Filed Oct. 29, 1920. Serial No. 420,543. 1 Claim. (Cl. 73—166.)

A liquid measuring device comprising a normally vertical and elongated transparent body formed with alternate bulb-shaped containers and short narrow tubular connecting portions of a diameter substantially less than the diameter of said bulb-shaped containers, said narrow tubular connecting portions having communication at their upper and lower ends with said bulb-shaped containers and each

being provided with a series of graduations, each graduation of a series indicating the capacity of the device from



that graduation to the corresponding graduation of the series on the tubular portion depending from the container immediately below it.

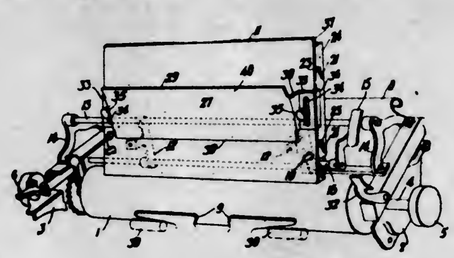
1,425,909. POWDER CONTAINER. HENRY SLAIGHR, Attleboro, Mass., assignor to The D. F. Briggs Company, Attleboro, Mass. Filed Mar. 15, 1922. Serial No. 544,017. 6 Claims. (Cl. 132—821.)



1. In a powder container, a container body having a closed end and having opposed slots extending through its opposite end, a closure for the container body having an outer sleeve fitting within the container body and having a rim fitted over the outside of the body, a ferrule within the sleeve, a puff having a loop in the ferrule, and a pin having headed ends, the pin being receivable in the slots of the body and extending through the loop and through the ferrule and through the slots of the outer sleeve, whereby upon removal of the closure the pin may be moved through the slots of the outer sleeve to project the puff beyond the outer sleeve.

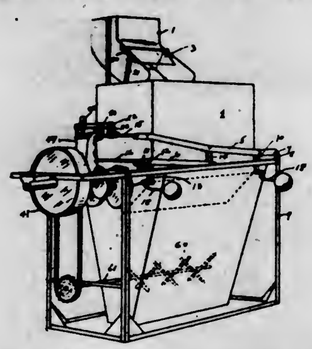
1,425,910. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 12, 1918. Serial No. 266,433. 22 Claims. (Cl. 197—127.)

3. In a typewriting machine, in combination, a revolubie platen, means for temporarily holding a work-sheet in position relatively to the platen, an introductory directrix to guide a second work-sheet downwardly between the first-mentioned work-sheet and the platen, said directrix comprising front and rear closely spaced plates, and said front plate having an edge to gauge the top edge of the second sheet, and means to adjust the position of the front plate with reference to the printing line to assist in gaging the second-mentioned work-sheet with reference to the printing line.



22. In a typewriting machine, in combination, a revolubie platen, means for temporarily holding a work-sheet in position relatively to the platen, and an introductory directrix to guide a second work-sheet back of the first and down between the same and the platen at the front of the latter, said directrix comprising a front plate having a straight upper edge forming a gage with which the upper edge of the second work-sheet may be brought into alignment by the fingers of the operator, to gauge the second sheet with reference to the printing line, and also comprising a rear plate closely spaced with reference to the front plate.

1,425,911. AUTOMATIC WEIGHING SCALE. HENRY R. STANDEFER, Melvin, Tex. Filed Aug. 30, 1920. Serial No. 407,067. 2 Claims. (Cl. 249—46.)

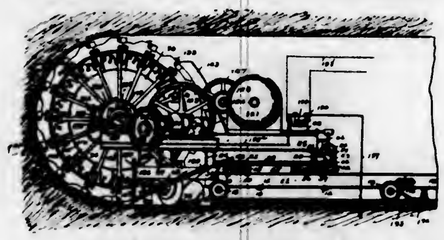


1. In an automatic weighing scales, a receiver, a chute leading downwardly into the receiver, a gate in said chute for control and admission of material into the receiver discharge doors arranged at the bottom of the receiver, arms connected with the lower corners of the receiver to support the same, knife edge bearings for each of said arms, a scale beam, a means for suspending the receiver through said arms from one end of said scale beam, and means controlled by the movement of the other end of said beam whereby when said receiver lowers under its measured load said chute gate is closed and the discharge doors of the receiver are opened.

1,425,912. CONDENSER AND THE METHOD OF MAKING SAME. ROBERT T. STAPLES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 17, 1920. Serial No. 404,254. 3 Claims. (Cl. 250—41.)

1. The method of treating a condenser comprising an impregnated unit which consists in heating said impregnated unit to a temperature slightly below the melting point of the impregnating compound and maintaining the unit at such temperature for a period of time sufficient to allow the unit to assume its natural shape.

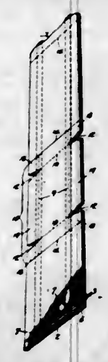
1,425,913. MINING MACHINE. HALVER R. STRAIGHT, Adel, Iowa. Filed Mar. 31, 1919. Serial No. 286,564. 46 Claims. (Cl. 262—7.)



2. In a device of the class described, a unitary excavator member designed to excavate, elevate and deliver material, means for supporting and rotating said excavator member in a vertical plane, a pivot truck, means independently operated for alternately moving said excavator member transversely in a semi-circular path about the center of said truck while said excavator is being operated and means for conveying the material to a predetermined point of discharge.

24. An excavator member having a cutter, means for moving said cutter through the material to be excavated, and electrical means for passing current through said cutters to the said material for the purpose stated.

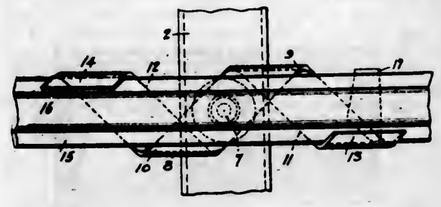
1,425,914. REENFORCED BLANK MATERIAL FOR THE MANUFACTURE OF PAPER BOXES OR CONTAINERS. GEORGE W. SWIFT, Jr., Bordentown, N. J. Filed May 19, 1920. Serial No. 382,560. 3 Claims. (Cl. 229—49.)



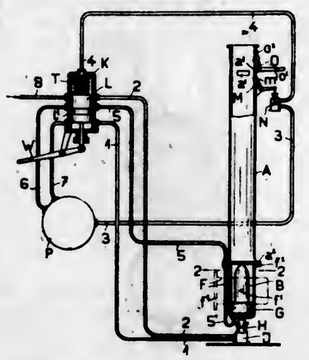
3. A composite multi-ply paper fabric for the manufacture of box blanks comprising outer surfacing webs and an inner filling web permanently fastened together and reenforcing strips arranged between the surfacing web and said filling web upon prospective lines of fold, said reenforcing strips being concealed within said surfacing webs and crease lines formed in said composite web in the zones of said reenforcing strips.

1,425,915. RAIL CLAMP. EUGENE B. TAGGART, Indiana, Pa. Filed Nov. 16, 1920. Serial No. 424,484. 4 Claims. (Cl. 238—305.)

1. The combination with a tie, of a spring-metal plate pivotally mounted thereon, oppositely extending clips at each end of said plate adapted to engage the rail-flanges at opposite sides of said rail, said clips normally extending down at an angle to said rail flanges, and the inner ends of said clips projecting above said flanges.

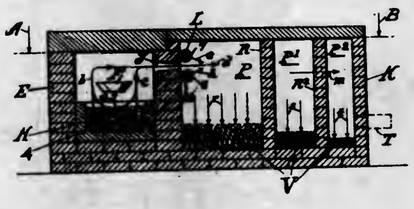


1,425,916. AMMUNITION HOIST. HANS TECHEL, Kiel, Germany, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel, Germany. Filed Jan. 3, 1921. Serial No. 434,635. 7 Claims. (Cl. 89—46.)



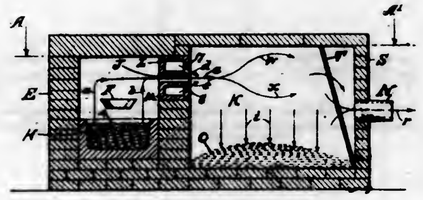
1. An ammunition hoist of the class described comprising a hoisting tube, a charging tube adapted to be swung underneath the hoisting tube and to be shifted in the direction of the hoisting tube and fluid-pressure means for shifting the charging tube and closing the connection between said charging tube and hoisting tube.

1,425,917. METHOD AND MEANS FOR PRODUCING OXIDE OF ZINC. JOHN THOMSON, Brooklyn, N. Y. Filed Mar. 16, 1921. Serial No. 452,641. 14 Claims. (Cl. 204—63.)



6. The method of producing oxide-of-zinc essentially consisting in oxidizing relatively pure, isolated zinc-gas by partially depotentiated generated oxygen, the zinc-gas being produced by re-distillation of metallic zinc in an electric furnace from whence it passes between impinging streams of the oxidizing medium, the oxide concurrently precipitating in a chamber.

1,425,918. METHOD AND MEANS FOR PRODUCING OXIDE OF ZINC. JOHN THOMSON, Brooklyn, N. Y. Filed May 5, 1921. Serial No. 466,866. 10 Claims. (Cl. 204—63.)



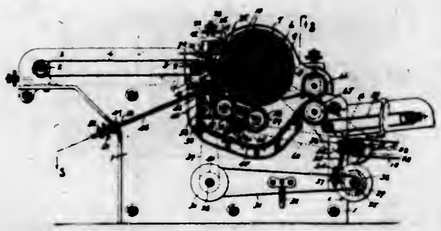
4. The method of producing crystalline oxide-of-zinc, which essentially consists in oxidizing super-heated zinc-gas by air, the zinc-gas being produced by re-distilling metallic zinc in an electric furnace from whence it passes between impinging streams of the oxidizing medium, previously preheated, the resulting product concurrently precipitating in a chamber.

1,425,919. METHOD OF MAKING SPECTACLE FRAMES AND SIMILAR ARTICLES. HORMIDAS TREMBLAY, Southbridge, Mass. Filed Mar. 10, 1921. Serial No. 451,126. 10 Claims. (Cl. 29—20.)



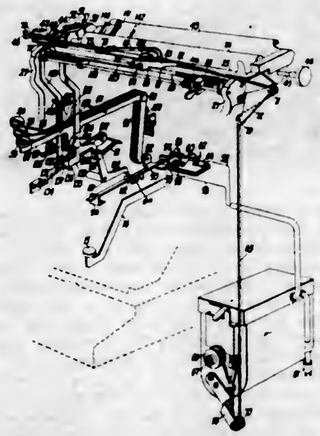
1. The method of making a frame which consists in stamping a blank out of sheet material in flat form and providing it with two arms parallel with each other, bending each arm of said pair away from the other in their plane until they are straight and in alignment so as to form a straight arm, and thereafter bending said arm in its own plane to form a closed figure for receiving the edge of a lens or the like.

1,425,920. DISINTEGRATING MACHINE. FREDERICK VON OSTEN, East Orange, N. J., assignor to Sophie S. von Osten, East Orange, N. J. Filed Feb. 16, 1921. Serial No. 445,290. 9 Claims. (Cl. 19—83.)



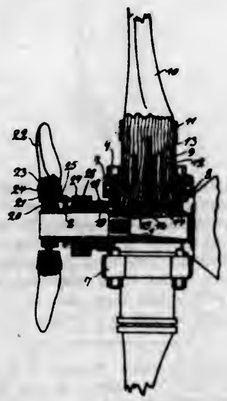
2. In a machine of the kind described, a high speed rotatable teasing element having a surface of radially projected springy bristles, a pair of feed rollers, a pair of gripping rollers intermediate said feed rollers and the surface of said teasing element, means for rotating said feed rollers and said gripping rollers to slowly feed material to said teasing element, and a yieldable presser-plate beneath said gripping rollers and contiguous to the bristle surface of said teasing element to hold the material subject to the teasing and brushing action of the latter.

1,425,921. TYPEWRITING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 7, 1919. Serial No. 315,819. 27 Claims. (Cl. 197—66.)



1. In a typewriting machine, in combination, a carriage constantly urged in the letter-feeding direction, escapement mechanism whereby the movement of the carriage may be controlled, carriage-returning means, means to check the carriage at different predetermined positions in the return movement thereof, and means variably operable manually to start said carriage-returning means and to control the action of the checking means in accordance with the operation of said starting means.

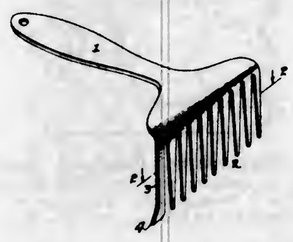
1,425,922. ADJUSTABLE OR SELF-REGULATING PROPELLER. ERWIN WESNIGK, Berlin, Germany. Filed June 29, 1920. Serial No. 392,534. 8 Claims. (Cl. 170—163.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In screw propellers the combination with propeller blades rotatably mounted at a hub, of an auxiliary blade

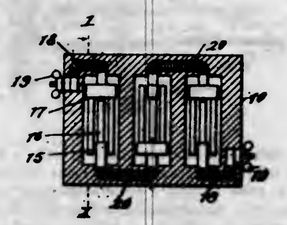
rotatably mounted at the said hub and means for transmitting the rotating movements of said auxiliary blade onto the rotatably mounted propeller blades.

1,425,923. BRUSH CLEANER. FREDERICK WEYHRAUCH, New York, N. Y. Filed Apr. 19, 1921. Serial No. 462,492. 1 Claim. (Cl. 15—142.)



A brush cleaner comprising a handle, a comb depending therefrom, one end tooth of which is provided with a laterally extending projection in the plane of the teeth, said projection and outside edge of the tooth being provided with a cutting edge.

1,425,924. STORAGE BATTERY. THEODORE A. WILLARD, East Cleveland, Ohio. Filed Sept. 16, 1918. Serial No. 254,248. 8 Claims. (Cl. 204—29.)



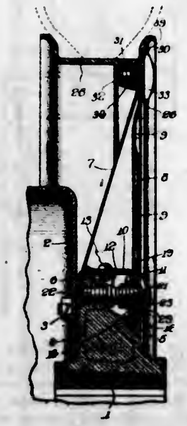
1. A storage battery comprising a vessel having a cover and containing the electrolyte and battery elements and directly enclosing the same and conductors extending from the elements through the lateral walls of the vessel at a distance from and beneath the cover.

1,425,925. TIRE PATCH. LAURIN L. WILLIAMS, Oneida, Kans. Filed Sept. 12, 1919. Serial No. 323,259. 2 Claims. (Cl. 152—24.)



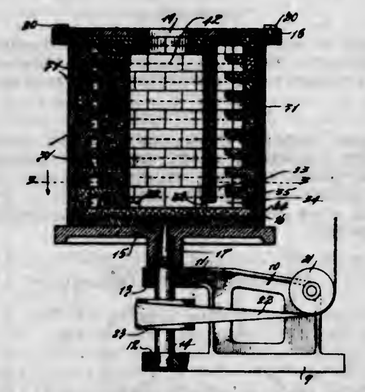
2. A fastener for a tire patch having first and second coacting walls to form a loop to receive a portion of a patch therebetween, the fastener being formed of a single blank of metal, the first wall being elongated and extending on opposite sides of the second wall, said first wall having a terminal patch-retaining hook extending towards the second wall, a flange at one end of the first wall extending in the same direction as said hook, said first wall having openings therethrough on opposite sides of the second wall for passage of a retaining element therethrough, said second wall being wider than and extending beyond said hook, and said second wall having a terminal hook extending in the same direction as the first hook and engageable with a tire-mounting rim.

1,425,926. HUB DEMOUNTABLE DOUBLE DISK WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Sept. 23, 1920. Serial No. 412,158. 10 Claims. (Cl. 301—63.)



1. The combination with a hub having annular correspondingly inclined bearing surfaces unequally distant from its axis, of two inwardly divergent wheel disks having unequal central openings to fit over said surfaces, respectively, and clamping means for forcing the disks laterally against the inclined bearing surfaces.

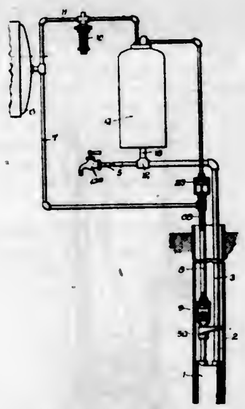
1,425,927. CENTRIFUGAL CASTING MACHINE. WILLIAM F. WOLF, Somerville, N. J., assignor to Wasson Piston Ring Company, Plainfield, N. J., a Corporation of New Jersey. Filed Mar. 30, 1921. Serial No. 456,876. 19 Claims. (Cl. 22—65.)



1. In a centrifugal casting-machine, a multiple-casting mold comprising successive layers of cores for forming

the rings concentrically arranged to form an inner trough, a plurality of vertical channels within the body of the cores connecting the successive layers of cores, and gateways between said trough and channels.

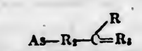
1,425,928. PUMPING SYSTEM. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 27, 1917. Serial No. 183,097. 21 Claims. (Cl. 103—8.)



2. In combination, a single cylinder pneumatic displacement pump adapted to be submerged in the water in the well, a normally closed faucet controlled delivery system connected to said pump, a source of compressed air for operating the pump and a float valve at the head of the well for controlling the individual strokes of the pump by admitting compressed air to and exhausting the same from the pump cylinder, said delivery system being adapted to deliver the water to outlets lying a substantial distance above the float valve.

1,425,929. DERIVATIVES OF ORGANIC ARSENIC COMPOUNDS. AUGUST ALBERT, Munich, Germany. Filed Mar. 25, 1922. Serial No. 546,792. 2 Claims. (Cl. 260—14.)

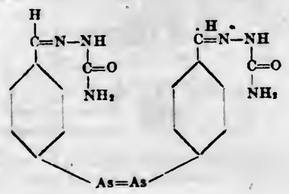
1. As a new composition of matter, an arseno hydrazone of the type



in which As represents pentavalent arsenic, R represents hydrogen or an alkyl group, R_2 represents a phenyl group, and R_3 represents a group containing a hydrazine nucleus.

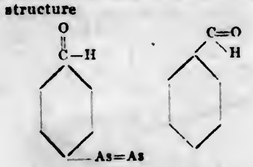
1,425,930. PROCESS OF MANUFACTURING NEW ARSENIC OXIDES OR ARSENOBENZOLS. AUGUST ALBERT, Munich, Germany. Filed Mar. 25, 1922. Serial No. 546,793. 4 Claims. (Cl. 260—15.)

4. As a new compound, the semi-carbazone of p-arseno benzaldehyde.

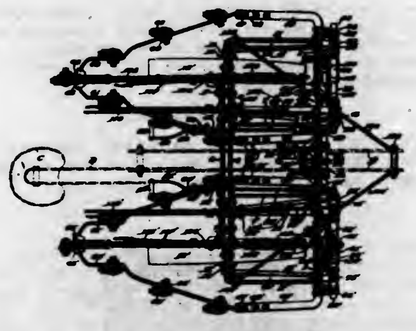


1,425,931. METHOD OF PRODUCING NEW AROMATIC COMPOUNDS CONTAINING CARBONYLGROUPS WITH TRIVALENT ARSENIC. AUGUST ALBERT, Munich, Germany. Filed Mar. 25, 1922. Serial No. 546,794. 4 Claims. (Cl. 260—15.)

4. As a new compound, 1—4 arseno benzaldehyde of the general structure



1,425,932. CULTIVATOR. CHARLES J. ALLEN, Moorestown, N. J., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed Apr. 6, 1921. Serial No. 459,048. 12 Claims. (Cl. 97—35.)

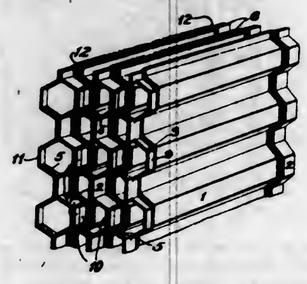


3. In a cultivator the combination with a frame, axles supported below the frame and wheels rotatable on the axles, of a yoke having a central portion adjacent the frame, portions depending downwardly therefrom and laterally outward oppositely directed portions adjacent the ends thereof, means for effecting lateral movement of said yoke with respect to said frame, a slide bar positioned adjacent each of said outwardly directed portions and carried by the yoke, means for supporting each of the slide bars from the frame comprising a hanger secured to the frame and anti-friction means carried by the hanger and positioned beneath the slide bar, a plurality of draft bars extending between each slide bar and the adjacent axle and movable with respect thereto on vertical pivots, a plurality of tool carrying gangs each gang having relatively movable members, adjustable means for supporting the rear end of each gang from the frame, means for operatively supporting one of the members of each gang in laterally fixed relation with respect to the adjacent outwardly directed portion of the yoke, means for movably supporting the other member of the gang from said portion of the yoke and comprising a sleeve slidable on the yoke and a slide carried by said sleeve and connected to said member, anti-friction means carried by said slide bar and vertically supporting said slide, means disposed in the rear of said slide operative to support said slide against the pull of the gang and manually operable means for moving the sleeve along the yoke in either direction to increase or decrease the width of the gang.

1,425,933. AUTOMOBILE RADIATOR. ANDERS P. ANDERSEN, Providence, R. I. Filed May 31, 1921. Serial No. 473,741. 5 Claims. (Cl. 257—130.)

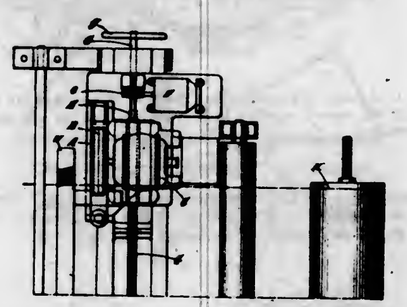
1. A radiator comprising zig-zag water and air courses each water course defined by two nesting sheets of metal

corrugated and having raised webs at each side to space the intermediate portions of the sheets, the web at one side only of each sheet and at relatively opposite sides



being slitted at intervals lengthwise of the sheet and the outer portions of the slitted web being pressed in the opposite direction to form spacing webs for the adjacent water courses on both sides.

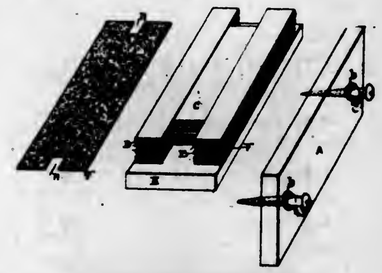
1,425,934. TREATMENT OF CANVAS AND SIMILAR WOVEN FABRICS. THOMAS ANDREW, Rochdale, England, assignor to No. 2 D. R. Cotton Mills, Limited, Regent's Park, County of London, England, a British Company. Filed Dec. 27, 1921. Serial No. 525,186. 6 Claims. (Cl. 28—18.)



1. In a machine of the class described, the combination of a support, a saddle transversely mounted on said support, a rotatable cutter secured to said saddle, means on said support for intermittently moving said saddle, said machine adapted to receive a fabric therethrough, and separate means adapted to bring said cutter into contact with the edges of the fabric so as to remove certain of the warp threads therefrom and to simultaneously comb out the ends of the weft threads associated with said warp threads.

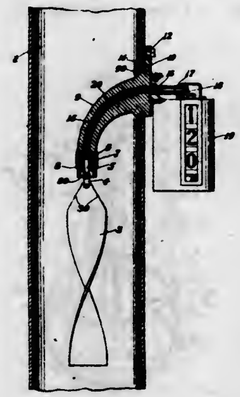
1,425,935. PROCESS OF AND MEANS FOR RECOVERING SILVER FROM PHOTOGRAPHIC AND OTHER BATHS. NATHANIEL B. AUKERMAN, Lakewood, Ohio. Filed May 31, 1919. Serial No. 300,891. 10 Claims. (Cl. 204—1.)

1. The process herein described of recovering silver in solution in a photographic or like bath, consisting in subjecting the solution to the electro-chemical action of an electro-couple and in restraining the free action of



the solution and building up a silver deposit mainly apart from the active elements of the electro couple.

1,425,936. APPARATUS FOR METERING GRANULAR MATERIAL. ERVIN G. BAILEY, Cleveland Heights, Ohio, assignor to Bailey Meter Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 23, 1921. Serial No. 502,750. 4 Claims. (Cl. 73—37.)

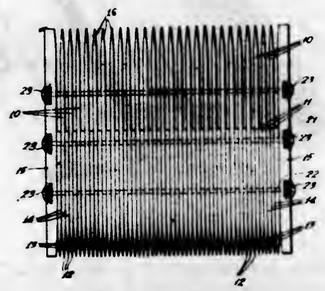


1. An apparatus for metering the flow of granular material through a conduit, comprising a propeller adapted to be rotated about an axis substantially in or parallel with the axis of the conduit, combined with a curved supporting bracket for said propeller having a longitudinal curved passage therethrough, and having a base adapted to be secured in and to close an opening through the side of the conduit with the other end of the bracket terminating substantially in line with the axis of the conduit, a bearing for the propeller at said inner end of the bracket, and a flexible shaft connected with said propeller to be actuated thereby and extending through the passage in the bracket to actuate an external counting mechanism.

1,425,937. COMB. JULIUS BIDERMAN, New York, N. Y. Filed Mar. 12, 1921. Serial No. 451,932. 10 Claims. (Cl. 132—16.)

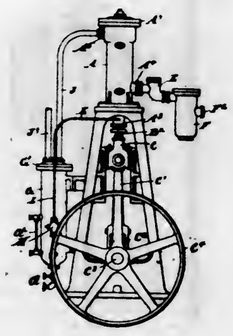
3. A comb, comprising a series of strips, each having a tapered end forming a tooth of the comb, each side of each strip providing a contact surface conforming to the adjacent contact surface of the succeeding strip and a tapering surface being a continuation of the contact surface so as to form between the teeth recesses each tapering inwardly to a point, retaining means located

behind the inner ends of said recesses for holding said strips in alignment and permitting a separation of the tapered ends of the strips and the portion of the contact



surfaces of the strips nearest the tapered ends, and resilient means adapted normally to press said contact surfaces into engagement.

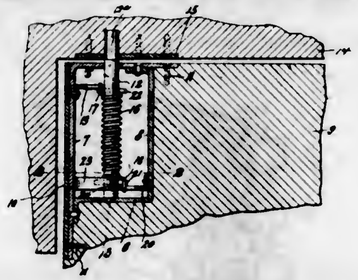
1,425,938. METHOD OF COMPRESSING GASES. LOUIS BLOCK, Mamaroneck, N. Y. Filed Mar. 13, 1918. Serial No. 222,066. 4 Claims. (Cl. 183—117.)



1. The method described of treating gas by circulating sulphuric acid through the gas for absorbing moisture in the gas, consisting of delivering such acid to a compressor prior to its entrance to the compressing zone, transferring such acid to such zone after the transfer of the charge of gas to such zone, compressing such charge of gas in the presence of such acid, and delivering such acid with the compressed gas.

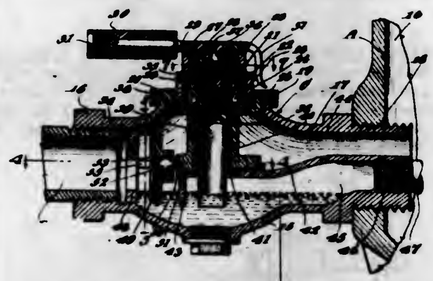
1,425,939. SPRING HINGE. CHARLES BOCK, Chicago, Ill., assignor to Andrew Hoffman, Chicago, Ill. Filed Aug. 6, 1918, Serial No. 248,600. Renewed Oct. 15, 1920. Serial No. 417,268. 9 Claims. (Cl. 16—180.)

6. A mortise spring hinge for doors comprising a shallow frame, a hinge pin journaled adjacent its ends in the frame and having one end projecting beyond the frame and formed for interlocking engagement with a lintel plate or the like, a spring coiled about the pin within the frame and having hook-like terminals oppositely opening in an unwinding direction, studs projecting from the frame into engagement with the spring terminals, fingers projecting from the hinge pin in a plane parallel to and closely adjacent the studs for engagement with the spring terminals, and a resilient bifurcated latch member carried by the frame and em-



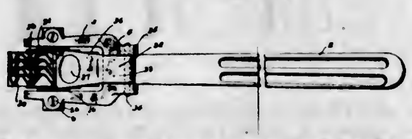
bracing the pin, the arms of the latch member engageable by oppositely disposed fingers when the door is open to hold the same when swung in either direction.

1,425,940. VALVE FOR RADIATORS. WALTER C. BOYD, Shepherdsville, Ky. Filed June 8, 1920. Serial No. 387,428. 11 Claims. (Cl. 277—55.)



1. A valve for controlling the flow of the heating fluid and the return matter in a radiator, and an air escape arranged in the stem of the valve.

1,425,941. EMERY-WHEEL-DRESSING TOOL. GEORGE R. BRISBEN, Cleveland, Ohio. Filed December 11, 1920. Serial No. 429,901. 6 Claims. (Cl. 125—37.)

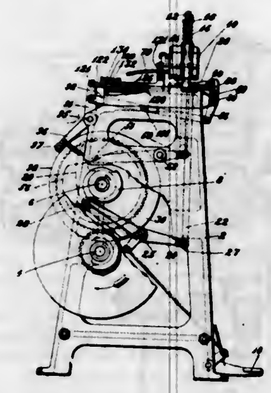


1. A cutter element for an emery wheel dressing tool having a chipping edge, successive portions of which include angles and curves.

1,425,942. MACHINE AND METHOD FOR USE IN SHAPING UPPERS. MATTHIAS BROCK, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 22, 1917, Serial No. 197,863. Renewed July 25, 1921. Serial No. 487,519. 62 Claims. (Cl. 12—97.)

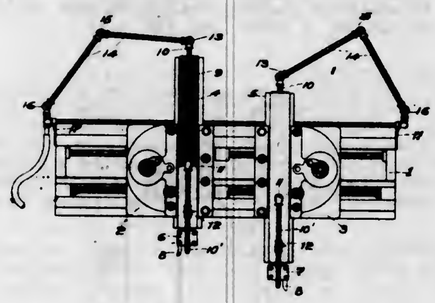
1. In an upper forming machine, a form having the shape which the forepart of the upper is to assume in the finished shoe, upper gripping means arranged to receive the marginal portions of the upper, means for moving the form and the gripping means relatively to

cause the upper to be wrapped about the form and progressively withdrawn from the gripping means, means for wiping the upper at the end and sides of the form



toward the bottom of the form, and means for bending outwardly the portion of the upper extending beyond the bottom of the form and pressing it against the wiping means.

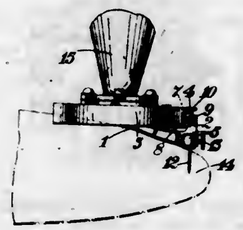
1,425,943. MEANS FOR DELIVERING CUTTING COMPOUND TO THE TOOLS OF VERTICAL BORING AND TURNING MILLS. FREDERICK F. CLARKE, Franklin, Pa., assignor to The Colburn Machine Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 18, 1919. Serial No. 318,150. 4 Claims. (Cl. 77—4.)



1. Means for delivering cutting compound to the tools of vertical boring and turning mills comprising a tube carried in the tool-slide of the mill, a delivery tube adjacent the tool carried by the slide said delivery tube attached to the slide and communicating with the tube in the slide, a main delivery tube attached to the machine and a flexible tube connection between the tube in the tool slide and the main delivery tube.

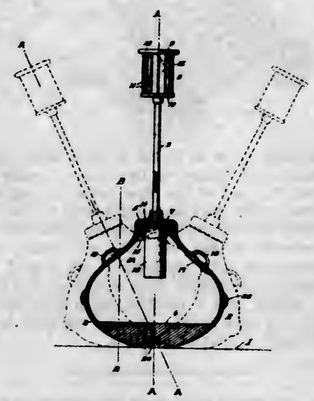
1,425,944. SOUND RECORDING AND REPRODUCING INSTRUMENT. WILLIAM ERNEST CLIFTON and JOHN STUBTON EWART, Nottingham, England, assignors to Cliftophone Limited, London, England. Filed June 21, 1921. Serial No. 479,380. 8 Claims. (Cl. 274—35.)

1. Means for articulating a stylus bar to the casing of a sound box of the type described, said means comprising at least two spring blades whereof one blade is disposed in a plane at right angles to the plane of the other blade and one of the blades is arranged in or substantially in the plane of the diaphragm, an operative connection between one end of each blade and the sound box casing



and another operative connection between the other end of each blade and the stylus bar at a position intermediate in the length of the latter.

1,425,945. SELF-RIGHTING POST. ERNEST W. CONGDON, Jr., Glen Ridge, N. J. Filed July 26, 1921. Serial No. 487,646. 7 Claims. (Cl. 40—145.)

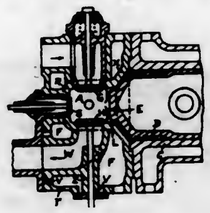


1. In a self-righting traffic post, adapted for use on the surface of pavements, and the like, the combination with a base comprising a shell having a rotund weighted bottom extending upwardly and inwardly to form a mouth, a cover for the mouth, a container adapted to contain a supply of stored energy within the base, a lamp, a long slender upright projecting from the cover to support the lamp, and devices to operatively connect the lam to the supply of energy.

1,425,946. HORIZONTAL INTERNAL-COMBUSTION GAS AND OIL ENGINE. KENNETH IRWIN CROSSLEY and WILFRED LE PLASTRIER WEBB, Openshaw, Manchester, England. Filed June 25, 1918. Serial No. 241,878. 4 Claims. (Cl. 123—30.)

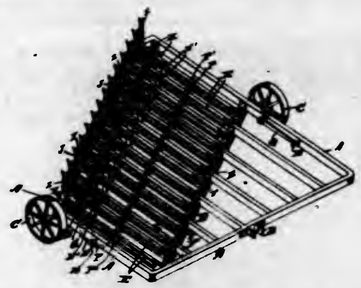
1. In combination, a cylinder, a head for the cylinder having a combustion chamber therein in axial alinement with the cylinder, an air intake port and an exhaust port arranged transversely of the chamber and at opposite sides, a fuel injector arranged in the plane of the

ports transversely of the axis of the cylinder, and a port at the end of the chamber and in axial alinement



with the cylinder for admiting compressed air only for the purpose of starting the engine.

1,425,947. GANG PLOW FOR TRACTORS. NORMAN A. CUMMINGS, Detroit, Mich. Filed Dec. 17, 1920. Serial No. 431,368. 5 Claims. (Cl. 97—67.)



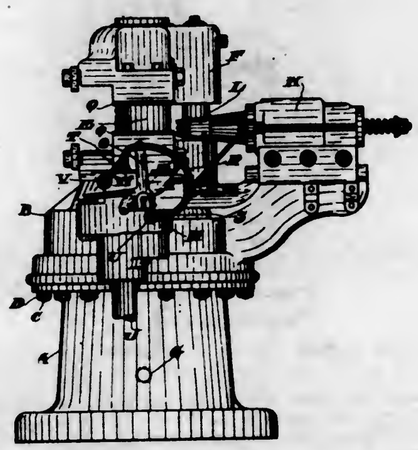
1. In a gang plow, a frame, a plow beam supporting a plow share and hinged to the frame, means for supporting the free end of the plow beam, an arm provided with a hook at its uper end and bolted to the free end of said beam and extending upwardly from the latter, a spring connected at one end with the frame, a flexible element connected with the hook at the end of said arm and extending downwardly from said hook and connected with the spring, and a plurality of pulleys for guiding and supporting said flexible element whereby to support said plow beam in normal position.

1,425,948. SUBSTITUTE FOR FABRICS, LEATHER, FURS, SPONGES, ETC., FROM COCOONS, AND METHOD OF MAKING SAME. AUGUSTE DELUBAC, Vals-les-Bains, France. Filed Aug. 17, 1920. Serial No. 404,253. 3 Claims. (Cl. 154—3.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

3. The method herein described for producing a fabric, consisting in flattening out the cocoons of caterpillars, cleaning the flattened cocoons, attaching the flattened cocoons together at their edges to form a fabric and then varnishing the fabric.

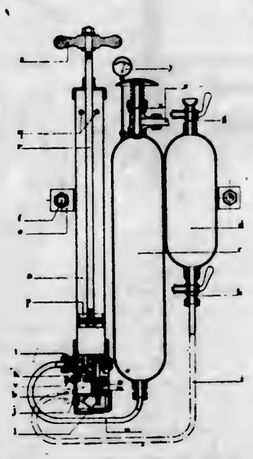
1,425,949. GUARD FOR VALVE HANDLES. JESSE DITSON, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 29, 1921. Serial No. 518,736. 3 Claims. (Cl. 74—33.)

1. A guard for the pivoted rocking handle of a valve, comprising a piece of metal having a portion of bow shaped form to constitute the main body portion of the guard, the ends of the said guard piece being turned to one side at angles to the plane of said bow shaped body portion forming bracket arms adapted to be connected to the frame of the machine on which the valve handle is mounted, and support the said body portion at a distance



from the frame while permiting the valve handle to rock through a given arc between the frame of the machine and the bow shaped body portion of the guard without interference from the bracket arms.

1,425,950. STARTING APPARATUS FOR INTERNAL-COMBUSTION ENGINES. EMILE PAUL DUMANOIS, Levallois-Perret, France. Filed Sept. 22, 1919. Serial No. 325,586. 4 Claims. (Cl. 123—180.)



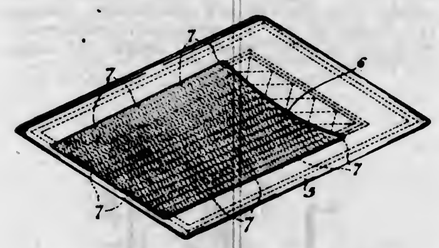
1. A starting apparatus for internal combustion engines, comprising a fuel tank, a carburetter independent from the carburetter of the engine and in communication with said fuel tank, a pump drawing out of said carburetter a mixture of air and atomized fuel and storing and compressing said explosive mixture into a container and means for connecting said container to the explosion cylinder of the engine.

1,425,951. TROLLING SPOON. WILL JOHN EGGLESTON, Everett, Wash., assignor of one-half to George T. Wanick, Everett, Wash. Filed June 16, 1920. Serial No. 389,417. 1 Claim. (Cl. 43—45.)



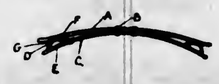
A trolling spoon consisting of a single piece of sheet metal conforming in outline to that of a fish, having the forward portion of its body concavo-convexly curved and having its said forward curved portion gradually merging in a flat rear portion and a flat tail said tail being provided at its rear end with diverging fins curved laterally in relatively opposite directions beyond opposite sides of the body, said body having at its forward end an aperture to receive an attaching member and said tail having a similar aperture at its rear end between said fins, the two apertures being in the plane of the longitudinal axis of the spoon and the body being otherwise imperforate and having smooth unbroken side surfaces as and for the purpose described.

1,425,952. INFANT'S BED CLOTHING. HARRY FIDLER, Philadelphia, Pa. Filed Apr. 20, 1921. Serial No. 463,025. 2 Claims. (Cl. 5—3.)



1. Infants' bed clothing comprising upper and lower substantially flat members secured to each other by separable fasteners, portions of said fasteners carried by the lower member, and complemental portions of said separable fasteners carried by the upper member, and the respective portions of said fasteners being located a distance apart less than the width of the lower member so as to provide a greater fullness in the lower member.

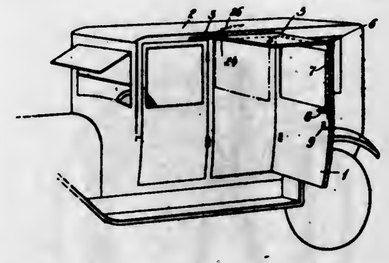
1,425,953. SOFT-COLLAR HOLDER. LOUIS FIGARSKY, Brooklyn, N. Y. Filed Oct. 1, 1920. Serial No. 413,980. 5 Claims. (Cl. 28—81.)



1. A soft-collar holder comprising two bars of highly resilient elastic material rigidly secured together at their common centers; one of the bars being provided adjacent to each end with a securing-loop formed integral with the bar at either end by being struck up therefrom; the surface of the unlooped bar abutting against the loops being provided with collar securing teeth; and such toothed bar being held under tensional strain against its own resiliency by such projecting loops.

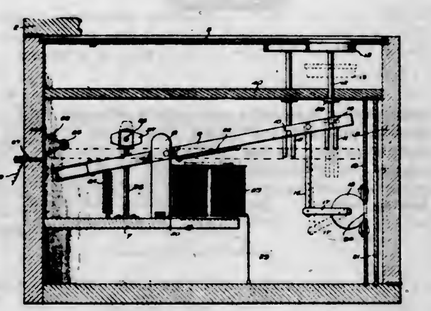
1,425,954. CANOPIED AUTOMOBILE DOOR. PHILIP A. FISCHER, New York, N. Y. Filed Oct. 19, 1920. Serial No. 417,896. 8 Claims. (Cl. 296—99.)

1. A canopy for automobiles comprising a canopy member arranged to be opened and closed by the automobile door, means for connecting and disconnecting the canopy member and door, whereby the door can be opened with



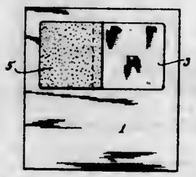
the canopy or independently thereof and means arranged at a distance below the canopy for operating said connecting and disconnecting means.

1,425,955. VOTING MACHINE. MARTINIANO FLORO, Champaign, Ill. Filed Apr. 18, 1921. Serial No. 462,223. 6 Claims. (Cl. 235—50.)



1. A voting machine comprising a counter, an operating lever connected to said counter, an electro-magnet arranged adjacent said lever and adapted to retain it in inoperative position when the magnet is energized, a rod connected to a source of current, means for completing a circuit through said magnet, and connecting means between said rod and said magnet to energize said magnet when the lever is depressed.

1,425,956. HAIR-WAVING MEANS. ERNEST O. FREDERICS, New York, N. Y. Filed Sept. 17, 1920. Serial No. 410,827. 10 Claims. (Cl. 132—36.)



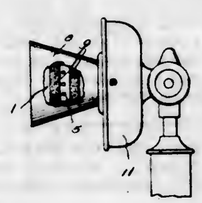
1. A device of the class described, comprising an envelope formed of textile material, one portion of said envelope having therein a hair treating substance, and another portion of said envelope having therein a heat resisting material.

1,425,957. NONREFILLABLE BOTTLE. CHARLES W. FREID, Good Thunder, Minn. Filed Dec. 7, 1920. Serial No. 428,965. 8 Claims. (Cl. 215—21.)



1. In a non-refillable bottle, the combination of a bottle having a tapering seat therein adjacent the bottle opening, said seat converging inwardly of the bottle, a buoyant valve having downwardly converging sides adapted for placement on the seat in said bottle, and means for rendering said valve inaccessible, yet permitting operation thereof to empty the bottle, and prevent refilling thereof.

1,425,958. SANITARY MOUTHPIECE. NATHAN GELB, Newark, N. J. Filed Mar. 15, 1922. Serial No. 543,870. 2 Claims. (Cl. 179—185.)



2. A mouth piece or body member with apertures in its wall and grooves in its outer side at opposite sides of said apertures, in combination with absorbent annuli in said grooves, and a jacket surrounding said member and annuli and detachably connected at its forward end to the member.

1,425,959. FOUNTAIN PAINTBRUSH. STANLEY GRZEBINSKI, Ituna, Saskatchewan, Canada. Filed Nov. 4, 1920. Serial No. 421,617. 1 Claim. (Cl. 15—184.)

A brush comprising a handle having bristles set in one end, a neck portion formed with said handle adjacent the bristles, conic telescopic elements slidable on said neck adapted when extended to envelop the bristles, a cover hingedly engaging the outermost of said telescopic elements, and resilient means on said handle adjacent



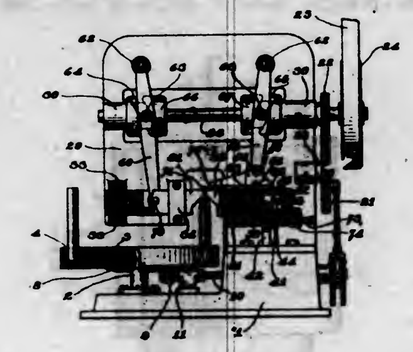
said neck adapted to engage and confine said elements when retracted and disposed on the neck.

1,425,960. AIR-VENT CLEANER FOR FILLING MACHINES. JOSEPH F. HALLER, Pittsburgh, Pa., assignor to McKenna Brass & Manufacturing Company, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 15, 1920. Serial No. 396,446. 17 Claims. (Cl. 226—98.)

1. In a filling machine, a filling tube, an air vent tube normally open to the atmosphere, means for producing an air flow through the air vent tube for cleaning the same and forcing any foreign material into the receptacle being filled, and means for automatically connecting said means to said air vent tube for producing a flow of cleaning air through said air vent tube at approximately the termination of the filling operation, substantially as described.

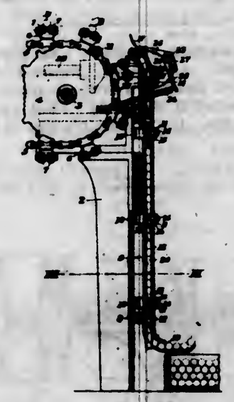
1,425,961. COLLAPSIBLE-TUBE-CLOSING MACHINE. THOMAS L. HARRISON, Philadelphia, Pa. Filed Aug. 1, 1921. Serial No. 488,837. 11 Claims. (Cl. 113—54.)

1. In a collapsible tube closing machine, the combination of reciprocating jaws, means for causing reciprocation of said jaws into and out of clamping relation with respect to each other, a slide secured upon one of said jaws, a yielding means intermediate said slide and said jaw, and a member pivotally connected to said slide for



turning the flattened end of a tube first laterally and then downwardly, the said member having connection directly with the means for actuating the said slide and jaw.

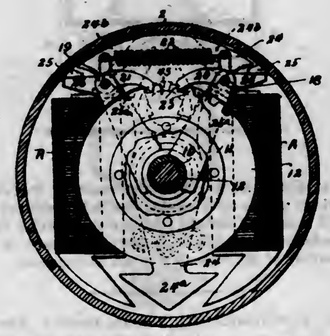
1,425,962. DELIVERY MECHANISM. BENJAMIN T. HEARLEY and DAVID IRVIN DU BOIS, Millville, N. J., assignors to Whitall-Tatum Company, Millville, N. J., a Corporation of New Jersey. Filed Mar. 28, 1921. Serial No. 456,083. 15 Claims. (Cl. 198—20.)



12. The combination with a vial bottoming machine, of a delivery mechanism therefor comprising means for engaging the sides of the finished vials, means for engaging the bottoms of the finished vials, a stripping finger cooperating with said means for transferring the vials from the bottoming machine to said means, and means for operating said stripping finger, substantially as described.

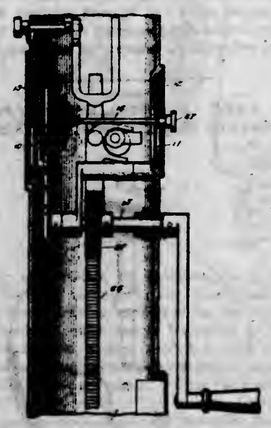
1,425,963. ELECTRICALLY-ACTUATED PERMUTATION MECHANISM AND CIRCUITS CONTROLLED THEREBY. JESSE B. HELLER, Wilkinsburg, Pa., assignor to Ralph W. Benson, New York, N. Y., Louis Widmeier, Cleveland, Ohio, and Robert J. Bryon. Filed July 11, 1919. Serial No. 310,068. 28 Claims. (Cl. 175—375.)

1. A device of the character described, comprising a driven member, a switch member, contact members, the switch member and contact members being carried by the driven member in order that the switch and contacts are moved relative to each other, said contacts being connected to circuits to be controlled, and electro-magnetically con-



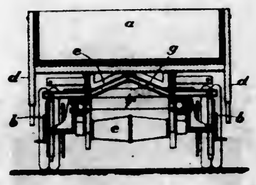
trolled permutation mechanism for moving said driven member step by step in either direction to close and open the circuits in a pre-arranged order, substantially as described.

1,425,964. DRIVING MECHANISM FOR COUNTERS SHERWOOD HINDS, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind., a Corporation of Indiana. Original application filed Sept. 26, 1917, Serial No. 193,257. Divided and this application filed May 17, 1920. Serial No. 381,869. 21 Claims. (Cl. 235—91.)



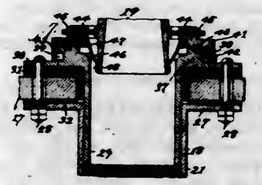
1. Driving mechanism for a registering device, comprising a rotary member, means for adjusting the peripheral length of said member, flexible means engaging the periphery of said member for transmitting motion therefrom to said registering device, and means for maintaining said flexible means taut at all times.

1,425,965. MOTOR TRUCK. JOHANN HOCKE, Wehetitz, near Karlsbad, Czecho-Slovakia, assignor to Fritz Meyer, Babel, Switzerland. Filed Oct. 31, 1921. Serial No. 511,880. 4 Claims. (Cl. 214—65.)



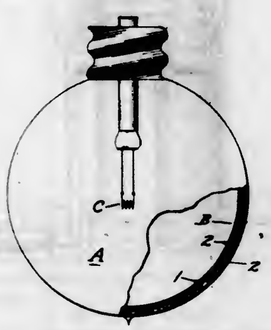
1. In a motor truck, an underframe, a movable car body thereon, means to raise said car body from the underframe and male and female roof-like positioning brackets on the underframe and the car body to ensure or adjust correct seating of the latter upon the underframe.

1,425,966. PHONOGRAPH. JOSEPH HOFFAY, New York, N. Y. Filed June 7, 1916, Serial No. 102,189. Renewed Jan. 10, 1922. Serial No. 528,139. 4 Claims. (Cl. 274—23.)



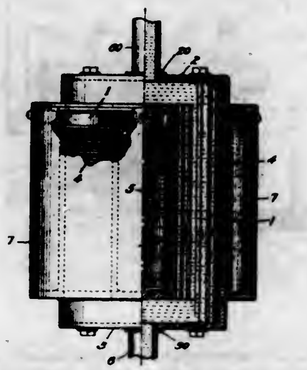
1. In a phonograph, the combination with a tone arm and a horizontally rotatable support in and upon which said tone arm is mounted to rock, of a flexible sealing sleeve surrounding and fixed at one end to said tone arm and fixed at its other end to said support with sufficient slack between said fixed ends so as not to interfere with the vertical swinging movements of said tone arm.

1,425,967. LAMP. SAMUEL O. HOFFMAN, San Francisco, Calif. Filed Nov. 28, 1921. Serial No. 518,256. 4 Claims. (Cl. 240—1.)



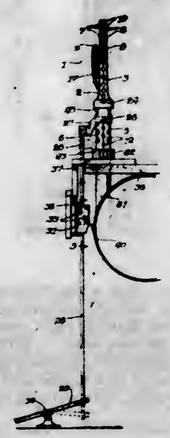
4. In a lamp, the combination of an incandescent source and a selective reflector around the same, said reflector consisting of a thin transparent film on each side of which is deposited a layer of a highly reflecting substance.

1,425,968. INDUCTION WATER HEATER. ANDREW J. HOLMES, Tacoma, Wash., assignor to Big-Four Electric Company, Tacoma, Wash., a Corporation of Washington. Filed May 6, 1919. Serial No. 295,167. 3 Claims. (Cl. 219—47.)



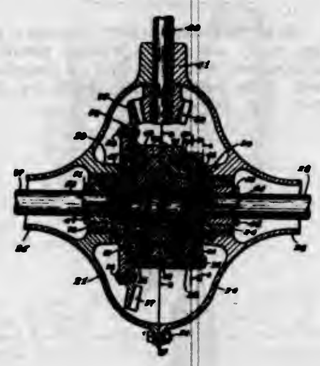
1. In an induction water heater, a unitary metallic body comprising a plurality of tubular cores, hollow heads adapted to integrally connect and communicate with said tubular cores at the adjacent ends thereof, said unitary metallic body constituting the secondary circuit of said heater; a supply pipe adapted to communicate with one of said hollow heads; a discharge pipe adapted to communicate with the other of said hollow heads; and primary coils adapted to be disposed around said tubular cores.

1,425,969. MEANS FOR SHAPING AND DRYING FABRIC ARTICLES. ARTHUR W. JOHNSON, Milwaukee, Wis., assignor to Bradley Knitting Company, Delavan, Wis., a Corporation of Wisconsin. Filed Apr. 28, 1920. Serial No. 377,289. 13 Claims. (Cl. 223—17.)



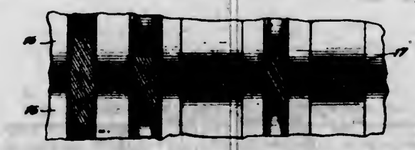
1. The combination with a shaping form upon which a fabric article is adapted to be shaped, of a fabric engaging element adjustable relative to said form, means for effecting disengagement of said fabric engaging element, said disengaging means being adjustable relative to said form, and a lost motion connection between said fabric engaging element and said disengaging means.

1,425,970. DIFFERENTIAL MECHANISM. JOHN D. JOHNSON, Seattle, Wash., assignor to Johnson Power Transmission Company, Seattle, Wash. Filed Sept. 22, 1920. Serial No. 411,879. 7 Claims. (Cl. 74—7.)



1. A locking differential mechanism comprising propelling means, driven members, annular flanges on the said driven members, gripping means extending between the said propelling means and the said annular flanges adapted to straddle the said flanges and to bind therewith during the rotary movement of the said propelling means to thereby impart rotary motion to the said driven members, frictional retarding means adapted to be operatively associated with the said gripping means, and means to permit the gripping means of one of the said annular flanges to control the action of the gripping means for the other of the said annular flanges.

1,425,971. METHOD OF PRODUCING FINISHED SECTIONS FROM IRON AND STEEL SCRAP. CHARLES JOHNS, Chicago, Ill. Filed May 24, 1920. Serial No. 383,895. 3 Claims. (Cl. 80—65.)



1. The herein described method of producing finished sections from iron and steel scrap which consists in cutting the scrap into strips of excess width, rolling said strips edgewise to thicken the strips and reduce them to desired width, and then rolling the strips to desired section.

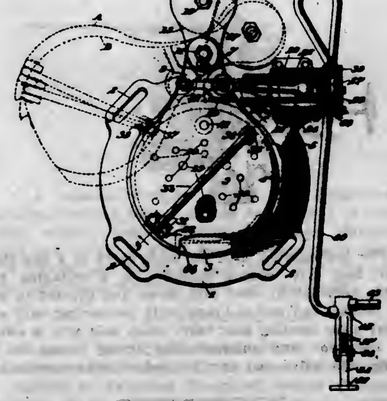
1,425,972. LUBRICATOR. LEOPOLD KASSANDER, New York, N. Y., assignor to Nathan Manufacturing Company, New York, N. Y., a Corporation of New York. Filed July 14, 1921. Serial No. 484,586. 6 Claims. (Cl. 184—58.)

1. In a lubricator the combination of an oil reservoir, adjustable means of regulating the flow of oil from said reservoir into a two chamber member connected to said reservoir, a downwardly seating valve in the upper chamber, and an upwardly seating valve in the lower chamber, said valves being rigidly connected by a stem, together with additional means of venting air from said chamber



to the top of said oil reservoir consisting of a passage from said chamber and from said oil reservoir to an annular groove common to each.

1,425,973. FIRE DOOR. RICHARD W. KAUCHER, Reading, and JOHN WALTER BARR, Sinking Spring, Pa. Filed July 28, 1920. Serial No. 399,515. 5 Claims. (Cl. 110—177.)



5. A fire door comprising, in combination a pivot, a door mounted thereon for oscillating movement, power operated means for operating said door on its pivot from closed to open position, said means including a cylinder, a piston mounted therein, a link pivoted to said door and having a portion abutting against said piston and freely movable therefrom in one direction, means for guiding the movement of said portion from and to its abutting engagement with said piston, manually operable means for oscillating said door, the link during manual operation of the door moving freely under direction of the guiding means independently of the piston.

1,425,974. DOLL. NELLIE KEARNEY, Holyoke, Mass. Filed June 18, 1921. Serial No. 478,476. 2 Claims. (Cl. 46—40.)

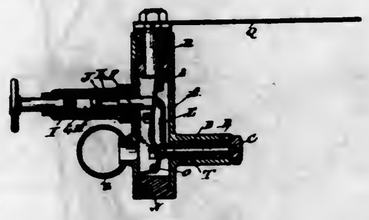
1. As an article of manufacture, a doll having its opposite sides made different in appearance to represent

different races, a movable cap or the like attached to the head to cover either one of the faces, and leg portions,



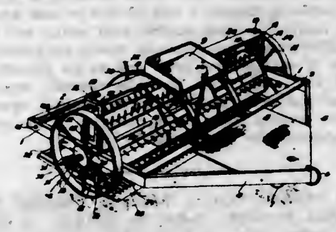
pivotally connected together whereby the feet and cap may be placed in corresponding relation to the rest of the article, as desired.

1,425,975. VALVE FOR GAS STOVES. WALTER J. KENNEDY, Cleveland, Ohio. Filed Feb. 12, 1920. Serial No. 358,246. 9 Claims. (Cl. 126—52.)



2. The combination with the inlet valve of a gas stove burner, and valve casing therefor, of a swinging arm movable horizontally over said stove, and pivoted in said valve casing, and means operatively connecting said arm and valve for opening said valve when said arm is swung upon its pivot, and automatically acting means for returning said valve and arm to their former positions.

1,425,976. CLOD CRUSHER. BUDD KENT, Woodburn, Oreg. Filed July 19, 1921. Serial No. 485,877. 4 Claims. (Cl. 55—1.)



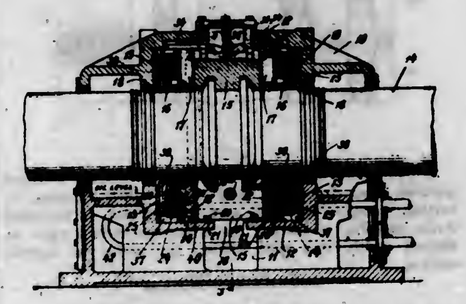
1. A clod crusher comprising a main frame, wheels supporting said frame, a beater cylinder mounted in said frame concentric with the wheels and actuated thereby, and a sifter frame arranged below the beater cylinder and carried by the first-mentioned frame and adapted to run below the surface of the ground and lift the soil and clods to be acted upon by the beater.

1,425,977. TELEPHONE HAND SET. WALTER C. KIMBEL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 8, 1919. Serial No. 343,321. 13 Claims. (Cl. 179—103.)



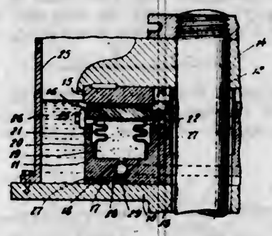
1. A hand-set handle having a rigid electrically conducting strip embedded in and extending longitudinally of the handle to reinforce the handle and designed for inclusion in the electrical circuit of the hand-set.

1,425,978. BEARING FOR HORIZONTAL OR INCLINED SHAFTS. ALBERT KINGSBURY, Pittsburgh, Pa. Filed Nov. 27, 1918. Serial No. 264,287. 33 Claims. (Cl. 64—25.)



1. A horizontal or inclined thrust bearing comprising a rotatable member having a thrust surface, a relatively stationary cooperating thrust member, means providing an oil-retaining chamber in which the bearing surfaces of said members are disposed, and means cooperating with said rotatable member for maintaining a bath of lubricant in said chamber in which the bearing members are immersed.

1,425,979. BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Filed Jan. 30, 1919. Serial No. 273,936. 32 Claims. (Cl. 64—25.)



1. A thrust bearing comprising relatively rotatable bearing members including a plurality of annularly-arranged bearing segments and fluid means on which said segments are mounted to tilt with respect thereto.

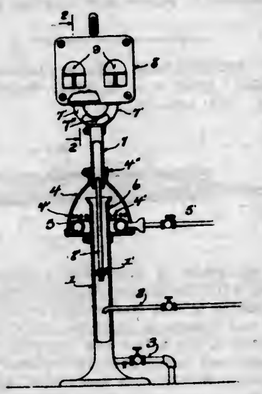
1,425,980. PHOTOGRAPHIC SHUTTER. RUDOLPH KLEIN, Rochester, N. Y., assignor to Ilex Optical Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 11, 1921. Serial No. 491,405. 5 Claims. (Cl. 95—63.)



1. In a photographic shutter, shutter blades, an operating mechanism for the shutter blades, and a retarding mechanism arranged for cooperation with said operating mechanism and embodying a pressure receiving member arranged to receive pressure from the operating mechanism and a movable retarding device, one of said parts being provided with an irregular way in which a portion of the other part operates to effect the movement of said retarding device for the purpose of resisting the movement of the pressure receiving member.

1,425,981. SHOE-TOP-SOFTENING MACHINE. RICHARD AUGUST KOEPKE, Milwaukee, Wis. Filed Oct. 12, 1921. Serial No. 507,227. 3 Claims. (Cl. 12—1.)

2. A shoe tip softening device comprising a dome having apertures therein for the reception of shoes to be operated upon, a mixing pipe in communication with the dome, a live steam pipe in communication with the mixing pipe, a superheating chamber surrounding the live steam pipe and in communication with the mixing pipe, the superheating chamber being provided with air intake ports, a heating unit associated with the aforesaid heating chamber, and means extending into the superheating chamber and surrounding the steam pipe



nozzle for trapping condensed steam from the dome and associated parts thereabove.

1,425,982. REVOLUTION COUNTER. LUDWIG KEDO, New York, N. Y. Filed Jan. 29, 1920. Serial No. 354,798. 7 Claims. (Cl. 235—139.)



1. A rotation counter or the like comprising digit wheels, carrying wheels having engagement to rotate the digit wheels, relatively-rotatable means between each digit and carrying wheel for avoiding casual rotation of the wheels, and means on each digit wheel for actuating the associated carrying wheel intermittently.

1,425,983. ELECTRIC SOLDERING IRON. FRANK KUHN and LAWRENCE H. THOMAS, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 20, 1922. Serial No. 545,061. 7 Claims. (Cl. 219—27.)



1. In an electrically heated instrument, the combination with a cylindrical metallic core member, of an insulator wrapping surrounding said core, a resistor

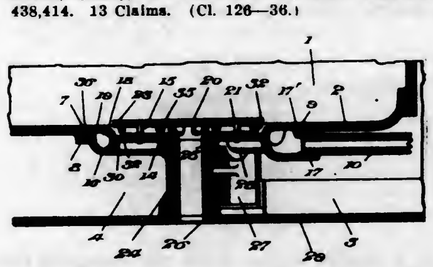
wound upon said insulator wrapping and having a terminal portion extending outward longitudinally of the core, and an insulator block insert in said core adjacent to and channeled to receive said terminal portion of the resistor.

1,425,984. PENHOLDER. ERNST LABHARD, Thalwill, Switzerland. Filed Nov. 17, 1921. Serial No. 515,831. 3 Claims. (Cl. 120—98.)



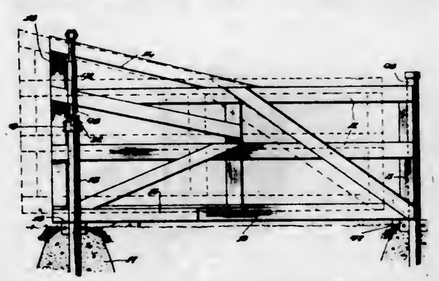
3. In a pen-holder of substantially tubular form, the combination, with the sleeve adapted to receive the pen, of a pin mounted in and transversely of the front end of the holder and forming a pivot for the sleeve, a spring-blade mounted in the holder and engaging the sleeve on the one hand and being fixed in the rear part of the holder on the other hand, a second pin mounted transversely of the central part of the holder and forming a rest for the spring-blade, and means to adjust the said second pin in relation to the spring-blade, all as and for the purpose described and shown.

1,425,985. GAS BURNER FOR COAL OVENS. HENRY LANGE, Quincy, Ill. Filed Jan. 19, 1921. Serial No. 438,414. 13 Claims. (Cl. 126—36.)



1. A stove having an oven and a flue under the bottom of the oven, said oven bottom having an opening, and a gas burner removably fitted in and closing said opening and constructed for the upward penetration of heat through the burner from the products of combustion in said flue.

1,425,986. GATE AND HINGE. JACOB LANGE, Jackson, Mich. Filed Nov. 10, 1921. Serial No. 514,284. 2 Claims. (Cl. 39—83.)



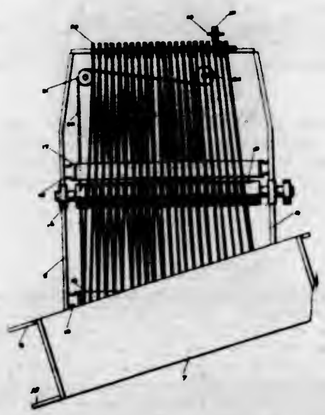
1. The combination with a gate having an inclined track formed in the hinge end thereof; of a gate post, a vertical pivot on said post, a collar on said pivot for supporting the pivot on said post, an arm rigidly attached to said collar and stops on said post for said arm adapted to limit the turning of said pivot on said post, a spring acting between said arm and said post in the direction of closing the gate, and means on said pivot engaging said track, whereby the gate may be given a limited lateral movement before being swung open.

1,425,987. FABRIC-WORKING MECHANISM. RICHARD H. LANSING, Chicopee Falls, Mass. Filed Apr. 6, 1921. Serial No. 459,184. 6 Claims. (Cl. 271—87.)



4. A flipper mechanism consisting of a rotative bar, means slidably mounted on said bar, springs engaging said means, said means projecting from said bar on opposite sides thereof, and means for imparting a step-by-step rotative movement to the bar.

1,425,988. CONVEYER. RICHARD H. LANSING, Chicopee Falls, Mass. Filed Apr. 6, 1921. Serial No. 459,186. 6 Claims. (Cl. 198—130.)

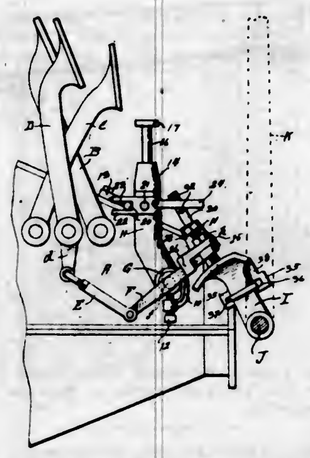


1. A conveyer consisting of a frame, rollers journaled on the frame, a series of grooved wheels journaled on the frame and an endless cable trained over the rollers and grooved wheels to provide a series of parallel horizontal portions and a series of variably inclined portions.

1,425,989. CLUTCH-PEDAL-LOCKING DEVICE FOR FORD CARS. JOHN P. LECRONE, York, Pa. Filed Dec. 17, 1921. Serial No. 523,026. 14 Claims. (Cl. 74—81.)

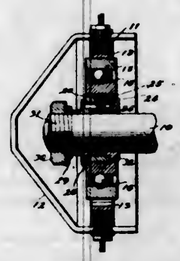
1. In a motor vehicle, a clutch lever, a speed lever, shiftable means carried by the clutch lever operatively

engaging the speed lever when the latter is in a neutral position and preventing the accidental forward move-



ment of the speed lever, and pedally operated means for releasing the shiftable means from its engagement with the speed lever.

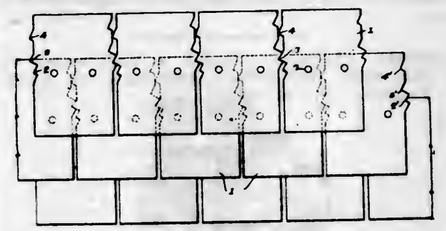
1,425,990. TIMER. ELMER JESSE LEE, Bangor, Pa. Filed Nov. 12, 1920. Serial No. 423,623. 3 Claims. (Cl. 200—27.)



1. A contact member for ignition timers having a rotating timer shaft and a relatively stationary distributing annulus provided with distributing points and disposed in spaced concentric relation around the shaft, said member consisting of a pair of relatively rotatable rings, the outer ring of which is of slightly reduced diameter as compared to the inner surface of the annulus and is engageable with said surface, and an automatically adjustable cam in two spring controlled parts, one part of which is fixed within the inner ring and the other part of which is secured on the timer shaft.

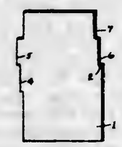
1,425,991. SHINGLE. EARL W. LESHER, Cleveland, Ohio. Filed Dec. 6, 1920. Serial No. 428,546. 12 Claims. (Cl. 108—8.)

1. A shingle having along one edge a plurality of spaced projecting members of different lengths and along its opposite edge a recess, said recess being arranged in transverse alignment with said longer projection of said



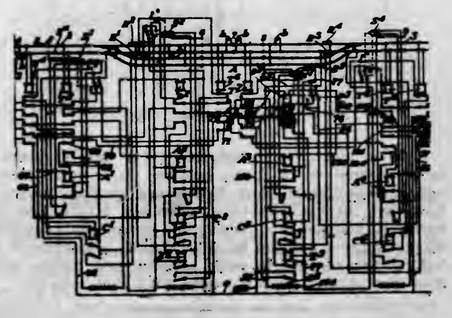
shingle and adapted to receive the longer projection on a similarly shaped shingle when it is correlated therewith.

1,425,992. SHINGLE. EARL W. LESHER, Cleveland, Ohio. Filed Apr. 4, 1921. Serial No. 458,244. 4 Claims. (Cl. 108—8.)



1. A shingle having along one edge projections extending one beyond the other but of equal width longitudinally of the shingle and along its opposite edge a recess complementary in shape and size to the shorter projection but in transverse alignment to said longer projection.

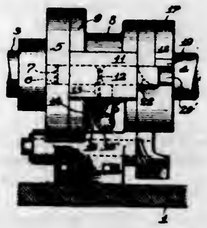
1,425,993. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. RONALD A. MCCANN, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Continuation of application Serial No. 309,710, filed July 9, 1919. This application filed Aug. 5, 1920, Serial No. 401,431. Renewed Feb. 27, 1922. Serial No. 539,766. 4 Claims. (Cl. 246—33.)



1. In combination, a stretch of railway track over which traffic moves in both directions, two signals governing movements in opposite directions along said track and separated by at least double maximum braking distance, train-controlled means including track circuits for placing both of said signals at stop when a train enters the portion of track between said signals and for holding the signal at the exit end at stop until the train leaves said portion, means for permitting the other signal to

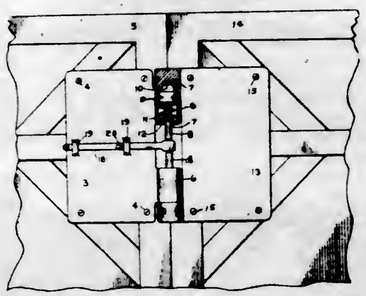
return to a proceed indication when the train has passed a point between said signals, a train controlling ramp adjacent each signal, and means for preventing emergisation of each ramp when the adjacent signal indicates stop.

1,425,994. CLUTCH. WILLIAM D. MCCULLOUGH, Detroit, Mich. Filed July 19, 1920. Serial No. 397,273. 2 Claims. (Cl. 192—25.)



1. In a clutch, a drive shaft, a driven shaft adapted to rotate counterclockwise, confronting collars carried by said shafts, a stop member supported by said driven shaft, a reciprocable locking pin slidable in said stop member and a collar of said driven shaft and adapted to enter the collar of said drive shaft, an undercut head carried by said pin, means for holding said pin in engagement with said drive shaft collar, and a trip member adapted to engage said stop member and recede into the undercut of said pin head to move said pin out of engagement with said drive shaft collar, said trip member preventing further rotation of said stop member until said trip member is retracted.

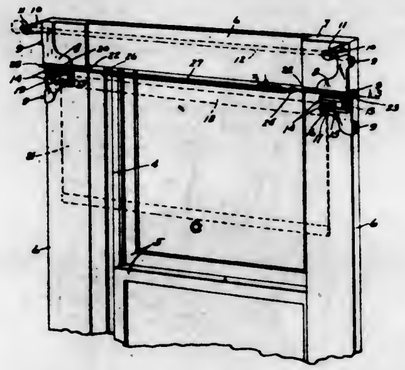
1,425,995. SNAP HINGE. JOHN MCGIVERNEY, New York, N. Y. Filed Jan. 5, 1922. Serial No. 527,093. 3 Claims. (Cl. 16—176.)



1. In a hinge, the combination of a pair of pintles each mounted under spring pressure in a hinge plate, and a second hinge plate having cup bearings adapted to receive the heads of said pintles and retain them in operative position, and means for locking said pintles in the engaged position in said pockets, consisting of a locking bar adapted to enter between said pintles and hold them against disengagement from said pockets.

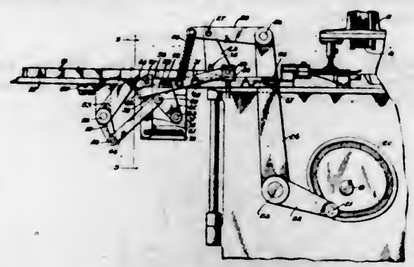
1,425,996. ADJUSTABLE WINDOW CURTAIN AND SHADE HOLDER. CARL FREDRICK MAGNUSSON, Minneapolis, Minn. Filed Mar. 9, 1921. Serial No. 451,075. 1 Claim. (Cl. 156—23.)

A holder of the kind described comprising a pair of casing plates having shade and curtain holding devices and also having smooth inturned ears adapted to frictionally engage outer edges of a casing, a pair of aligned rods extending across the outer faces of said plates and having barb-equipped laterally bent ends, said barbed-equipped ends being extended through apertures in certain of said ears and adapted to be pressed into the



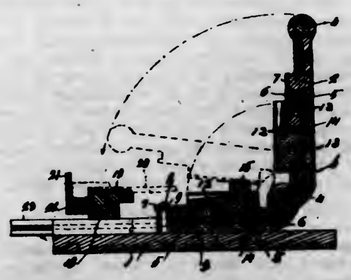
respective edges of the casing, and a spring connecting said two rods and under strain to draw the same toward each other.

1,425,997. CARTON-FILLING MECHANISM. MICHAEL J. MILMOE, Chicago, Ill., assignor to F. B. Redington Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 15, 1920. Serial No. 351,650. 29 Claims. (Cl. 83—92.)



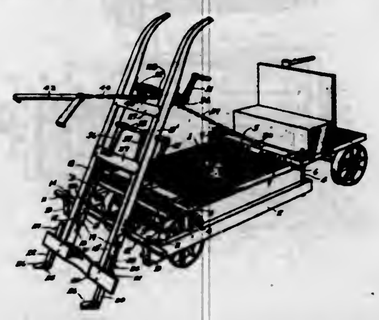
1. In combination, means for supporting a series of containers, and means for imparting sufficient force to each container in said series to discharge said container from said support in case said container is not properly filled.

1,425,998. CANDY MACHINE. CARLOS C. MORIAN, Olean, N. Y. Filed Mar. 31, 1920. Serial No. 370,198. 6 Claims. (Cl. 107—8.)



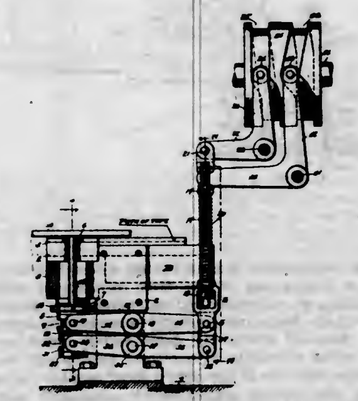
4. A machine of the character specified, comprising complemental frames provided with corresponding cutters and molding elements, and a back stop adapted to be secured between the frames and having clearance spaces for the cutters to prevent injury thereto.

1,425,999. TRUCKING MECHANISM. ALFRED JOHN MORROW, Seattle, Wash., assignor to Clare E. Farnsworth, Seattle, Wash. Filed Jan. 4, 1921. Serial No. 434,902. 8 Claims. (Cl. 214—77.)



1. A trucking device comprising in combination with a wheeled vehicle, a supporting frame applicable to said vehicle and comprising laterally adjustable side beams, a cross bar supported by said beams at one end of the vehicle, a pair of trucking handles pivotally mounted upon said cross bar to swing vertically between substantially vertical loading position and inclined position for transporting articles thereon, and means on said handles for sustaining articles thereon for transportation.

1,426,000. STAMPING MECHANISM. ELOF NORDSTROM, Newark, N. J., assignor, by mesne assignments, to American Dan Bottle Seal Corporation, a Corporation of Delaware. Filed Nov. 11, 1919. Serial No. 337,202. 7 Claims. (Cl. 113—42.)



1. In a machine of the character described, the combination with blank punching mechanism and blank shaping mechanism, said mechanisms including spaced die plates and plungers cooperating respectively with said die plates, of means constituting an abutment for limiting the approach of the blank cutting plunger with respect to the blank shaping die plate.

1,426,001. FREQUENCY CHANGER AND GENERATOR OF ALTERNATING CURRENT. NIKOLAI OBOUKHOFF, Harbin, China. Filed Feb. 28, 1917, Serial No. 151,603. Renewed Jan. 5, 1922. Serial No. 527,271. 7 Claims. (Cl. 172—237.)

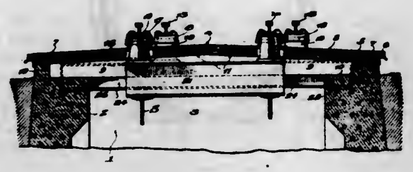


1. An alternating current generator and frequency changer of the character described comprising two or more dynamo electric machines mounted on a common shaft, primary and secondary windings in inductive relation on each machine, the primaries and secondaries of the two machines being connected to each other in such a manner that currents will flow through one pair in the same direction and will be opposed in the other pair, and means for varying the reluctance of the flux paths in each machine in such a manner that currents of different frequencies will be induced in the primary and secondary windings of the machines, substantially as described.

1,426,002. SALVE. STEPHEN O. O'DELL, Detroit, Mich. Filed Aug. 6, 1920. Serial No. 401,664. 3 Claims. (Cl. 167—9.)

2. An ointment comprising in combination, carbolic acid, red oxid of mercury, oil of spike, oil of origanum, rosin, beeswax and lard.

1,426,003. WEATHER COVER FOR TRACK SCALES. JOHN W. ORROCK, Montreal, Quebec, Canada, assignor of one-half to John M. R. Fairbairn, Westmount, Quebec, Canada. Filed Dec. 6, 1920. Serial No. 428,690. 5 Claims. (Cl. 265—71.)

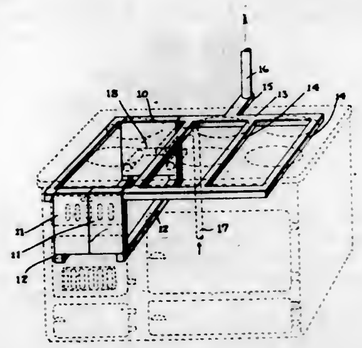


1. A weather cover for scale pits including in combination with the scale pit walls, rafter joists seated on said walls, a roof supported on said joists, a scale member carrying live rail supports projecting through the roof and supporting live rails thereover, stationary supporting beams seated on the pit walls beneath the roof and dead rail supports carried by said stationary supporting beams and projecting through the cover and carrying dead rails above the same.

1,426,004. HOUSEHEATING SYSTEM. JOSEPH OSTER, Locust Valley, N. Y. Filed Nov. 2, 1921. Serial No. 512,198. 3 Claims. (Cl. 126.5.)

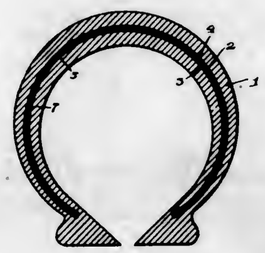
1. A water heating attachment for ranges, comprising opposed headers shaped to fit in the end portions of the

range fire box, cross pipes connecting the lower portions of the headers and disposed near the corners of the fire box, a rearwardly extending grid adapted to lie flat in the top part of the range and connecting with the



upper portions of the headers, said grid comprising side pipes extending along the side portions of the stove top and cross pipes connecting said side pipes and circulation pipes connected with the grid and one of the headers.

1,426,005. PNEUMATIC TIRE. FRED BROWN PFEIFFER, Akron, Ohio. Filed Nov. 28, 1919. Serial No. 340,995. 3 Claims. (Cl. 152—18.)

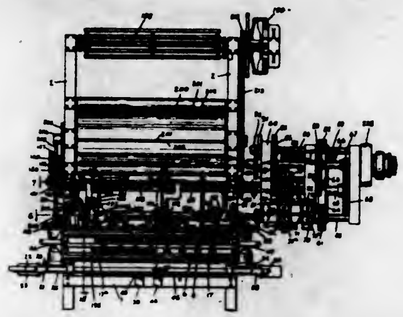


1. In a device of the class described, a casing; and superposed metal strips embedded in the casing, each strip having diagonal slits, all of which are located entirely within the strip, the slits of one strip being disposed at an angle to the slits of an adjoining strip.

1,426,006. METHOD OF MAKING PUDDING COMPOSITIONS. EDUARD POLAK, Groningen, Netherlands. Filed July 21, 1920. Serial No. 397,987. 1 Claim. (Cl. 99—11.)

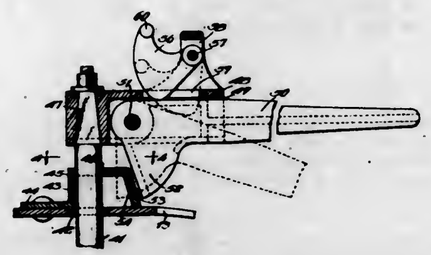
Method of making pudding compositions consisting in heating a bath of molten sugar to evaporate the water contents thereof, adding the ready pudding powder, heating the mixture until complete evaporation of the moisture contained therein, and pressing the mass into the solid form of tablets and the like.

1,426,007. FENCE-WEAVING LOOM. CARL A. PORATH, Kokomo, Ind., assignor to Kokomo Steel and Wire Company, Kokomo, Ind., a Corporation of Indiana. Filed Nov. 2, 1920. Serial No. 421,371. 29 Claims. (Cl. 140—5.)



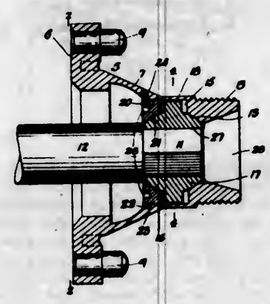
1. In a fence weaving machine, sectional means for forming twists in the line wires of a fence structure, means for feeding pickets between the line wires, and means for simultaneously lifting one section of each twisting device for separating the line wires for receiving the pickets.

1,426,008. TANK OUTLET VALVE AND OPERATING MECHANISM THEREFOR. EDWARD POSSON, Park Ridge, Ill. Filed Aug. 27, 1920. Serial No. 406,299. 4 Claims. (Cl. 137—21.)



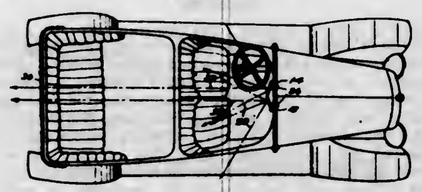
1. In combination: a tank having a dome; of an outlet valve at the bottom of the tank including a rotatable valve plug; an operating rod extending from said valve plug into the dome and rotatably mounted; an operating handle disposed within the dome and mounted on said rod to swing vertically with respect thereto and to drop under the influence of gravity; a fixed member having an arcuate cam surface approximately concentric with the axis of rotation of said rod, said member having also a shouldered notch therein and the handle having a portion thereof adapted to enter said notch when the handle drops under the influence of gravity, said portion of the handle riding upon said arcuate cam surface during the opening and closing movements of the valve plug; and means for holding said handle in its lowermost position with said portion of the handle in said notch to thereby prevent rotation of the rod accidentally.

1,426,009. AXLE MOUNTING FOR MOTOR VEHICLES. EDWARD J. RANTSCH, Brooklyn, N. Y. Filed Aug. 8, 1921. Serial No. 490,474. 13 Claims. (Cl. 301—105.)



1. An axle mounting of the class described comprising a clutch member mounted in connection with said axle and movable therewith, and said clutch member being mounted in a suitable support in such manner as to permit of lateral movement of said axle in said support.

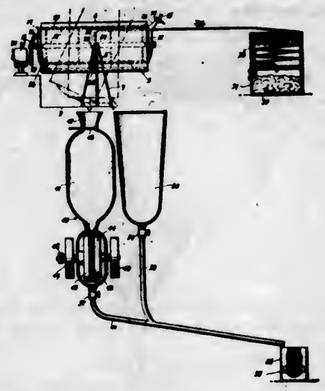
1,426,010. MIRROR ATTACHMENT FOR VEHICLES. FRANK W. REES, Seattle, Wash., assignor to See-All Manufacturing Co., Seattle, Wash., a Corporation. Filed Feb. 25, 1920. Serial No. 361,291. 2 Claims. (Cl. 88—67.)



1. As an article of manufacture, a double rear sight mirror for motor vehicles comprising two plane reflectors arranged with their reflecting surfaces at an angle of substantially two hundred degrees with respect to each other, and adjustable means for securing said mirror to the windshield of a motor vehicle whereby an occupant of either side of the front seat of said vehicle may see images of objects to the rear of the vehicle in one reflector and images of objects at the other side of the vehicle in the other reflector.

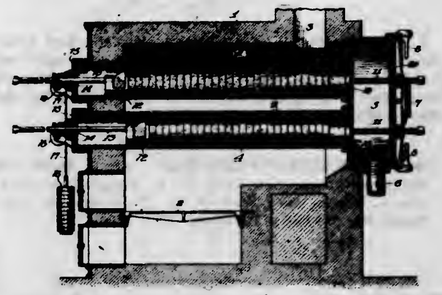
1,426,011. METHOD OF ROASTING AND PACKING GROUND OR WHOLE COFFEE. JOHN A. REYNOLDS, Detroit, Mich. Filed Dec. 4, 1919. Serial No. 342,489. 3 Claims. (Cl. 99—11.)

1. The method of treating and packing coffee, consisting in roasting a charge of green coffee in an air-excluded enclosure and producing a vacuum therein, liberating the vapors carrying the aromatic constituents of coffee to and conserving them by condensation and causing such condensed constituents to be absorbed by a cellulose menstruum, and depositing a quantity of the roasted



coffee with a portion of the cellulose menstruum in an enclosure and hermetically sealing the latter.

1,426,012. ART OF TREATING COAL. FRANK J. ROOT, Chicago, Ill. Filed Apr. 7, 1919. Serial No. 287,957. 7 Claims. (Cl. 202—8.)



7. The process of treating coal to produce a smokeless fuel therefrom which consists in compressing coal particles into dense blocks by a pressure of at least three tons per square inch, applying pressure to said blocks in one direction while subjecting it to a temperature of 450° C., the blocks being surrounded by a retort of larger dimensions transverse to the direction of application of pressure.

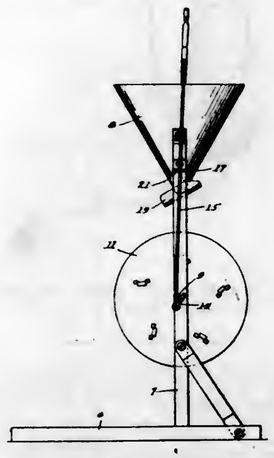
1,426,013. SHOCK ABSORBER. WILLIAM T. SCHRUM, Hammond, Ind., and EDWARD KRANTZ, Chicago, Ill., assignors, by direct and mesne assignments, to Schrum Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed May 16, 1921. Serial No. 469,843. 10 Claims. (Cl. 267—16.)



9. In a device of the character described, a spring support, a leaf spring rigidly mounted on the spring

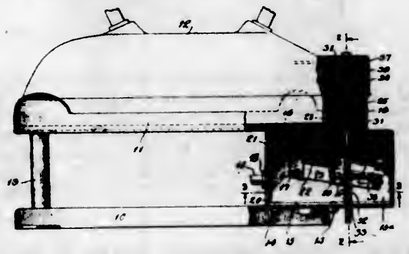
support, and a bell crank pivotally mounted on the spring support, the end of one arm of said bell crank bearing against the leaf spring and resilient means for cushioning movement of the other arm.

1,426,014. SAND TOY. HENRY A. SCHULKE, Cleveland, Ohio. Filed May 31, 1921. Serial No. 473,640. 2 Claims. (Cl. 46—37.)



1. The combination of a hopper, a bucket wheel under the hopper, a crank shaft on which the wheel is mounted, a rod connected to the crank, a figure carried by the rod above the hopper, and a stirring rod carried by the figure and depending into the hopper.

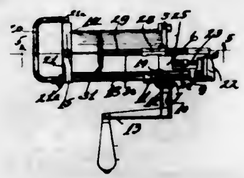
1,426,015. ELECTRIC PRESS IRON. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed Apr. 15, 1920 Serial No. 374,088. 7 Claims. (Cl. 219—25.)



1. In electric flat iron construction, in combination an iron containing an electric heating element, a stand provided with means for leading electric current thereto, means on said iron for leading current to said heating element, means on said stand for leading current into said current-leading means on said iron and means on the iron other than the current-leading means thereon for operating said current-leading means on said stand.

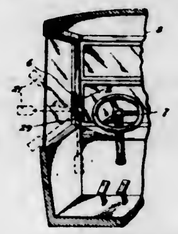
1,426,016. BUTTER CUTTER. CHARLES F. SMITH, Chicago, Ill., assignor to Maxim Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 22, 1920. Serial No. 398,292. 4 Claims. (Cl. 31—65.)

1. In a butter cutting machine, butter feeding mechanism comprising a plurality of relatively movable non-concentric members, having a one-way connection with each other, and an adjustable abutment on one of said members for varying the relative movement of said members.



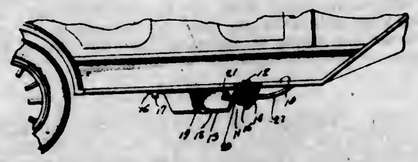
4. In a butter cutting machine, a butter advancing member, a reciprocable element non-concentric therewith and spaced therefrom, a one-way connection between said member and element permitting said member to be readily removed from operative relation with said element, an adjustable stop on said element, adapted for coacting with a stationary abutment upon the inoperative or return movement of said element, and a driving shaft having a cam for actuating said element.

1,426,017. VEHICLE SIGNAL DEVICE. ORVAL R. STRAWN, Columbus, Ohio. Filed Feb. 23, 1921. Serial No. 447,090. 8 Claims. (Cl. 116—52.)



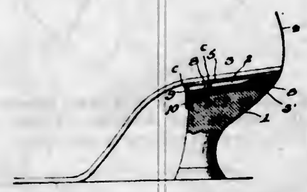
1. In a vehicle signal, a sleeve capable of being stationarily supported in connection with the wind shield structure of the vehicle, a notched quadrant connected with one end of the sleeve, an operating rod journaled within said sleeve, a crank handle connected with the inner end of said rod, a pawl carried by said handle and disposed for cooperation with the notches of said quadrant, and a signalling arm connected with the outer end of said rod and capable of operating in unison therewith upon the oscillation of said handle, said pawl and quadrant serving to maintain said arm in various positions of adjustment.

1,426,018. WASHBASIN FOR AUTOMOBILES. FRANK P. SULLIVAN, Belvidere, Ill. Filed Sept. 15, 1919. Serial No. 323,751. 1 Claim. (Cl. 280—164.)



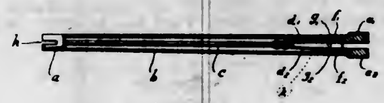
The combination with the running board of a motor vehicle, of a wash basin disposed beneath the running board, means pivotally connecting the wash basin to the running board whereby the basin may be swung from a concealed position beneath the running board to an outer position clear of the running board so that the basin is exposed for service, means on the under side of the running board for engaging the outer end of the basin when in its concealed position for retaining it therein, and means for supplying water to said basin from the motor vehicle.

1,426,019. SHOE HEEL. BERNARD SUMMERFIELD, Chicago, Ill. Filed Oct. 23, 1920. Serial No. 418,974. 1 Claim. (Cl. 36—42.)



The combination with a shoe having a plate attached to the heel portion thereof, spaced outstanding ears formed on said plate, flanges disposed at right angles to the ears and having their ends projecting beyond the side portions of the ears and a down turned ear formed at one end of the plate, of a heel member having a longitudinal slot provided in its side walls with undercut grooves to receive the projecting ends of the flanges, a correspondingly shaped metal plate arranged within said slot and grooves, a tongue struck up from the central portion of said plate and normally projecting upwardly within the slot for engagement with one of the outstanding ears on the plate when the heel is attached to the shoe and means for connecting the down turned ear on the plate to the body of the heel as and for the purpose set forth.

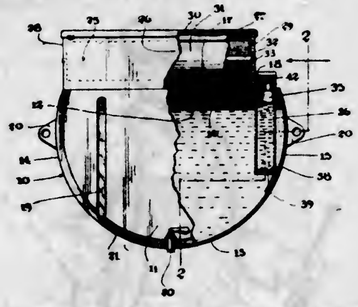
1,426,020. HAIR CURLER. EUGÈNE FRANÇOIS SUTER, London, England. Filed Mar. 4, 1922. Serial No. 541,049. 2 Claims. (Cl. 132—34.)



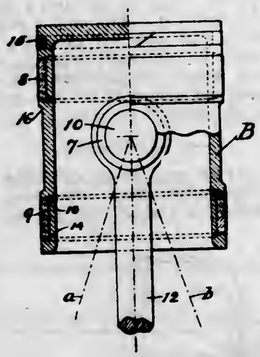
1. A hair curler comprising in combination a long hollow part, and a short part mounted at one end of said long part and having an extension passing through said hollow part and terminating in a projection which normally engages said hollow part and prevents it turning in either direction with respect to said hollow part, said extension being releasable from said hollow part and permitting said short part to be turned in either direction, for the purpose described.

1,426,021. TOILET OUTFIT. SVERRE RACHSTANG SVENDSGAARD, Portland, Oreg. Filed Oct. 4, 1921. Serial No. 505,416. 6 Claims. (Cl. 45—119.)

5. A toilet outfit or the like comprising a water receptacle having a top including two sections, a towel receptacle mounted on one of said sections, the other of said sections of said top constituting a readily accessible shelf, a soap container arranged in the water receptacle, a filling cap for the soap container arranged on said shelf and a filling cap for the water receptacle positioned on said shelf in spaced relation to said first mentioned filling cap.

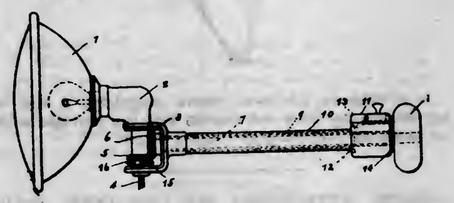


1,426,022. ENGINE PISTON. JOHN THOMSON, Brooklyn, N. Y. Filed May 10, 1921. Serial No. 468,210. 6 Claims. (Cl. 74—108.)



1. The combination, with an engine-cylinder and a reciprocating piston therein, of monolithic graphite bearing and jointing rings rigidly mounted in recesses on the exterior curcumferential portion of the piston.

1,426,023. SPOT LAMP FOR AUTOMOBILES AND THE LIKE. SAMUEL H. THOMSON, Dayton, Ohio, assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Filed Dec. 27, 1921. Serial No. 525,146. 4 Claims. (Cl. 240—7.)



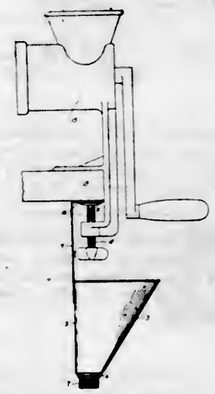
1. In spot lamp controlling means, the combination of a pivotally mounted lamp, intermeshing gears and means for operating the same to effect angular adjustment of said lamp, and means mounted and variably adjustable relative to one of said gears, and adapted to engage with the other gear to limit said adjustment of the lamp in a given direction.

1,426,024. HUNTING AND FISHING JACKET. JOHN A. THURESON, Eureka, Calif. Filed Mar. 9, 1921. Serial No. 450,811. 8 Claims. (Cl. 224—7.)



1. In a garment adapted to hang from the shoulders before and behind, a back portion extending below the hips and laterally the width of the back, a pocket open at the top and extending the width of said back portion, said pocket including an outer wall extending the width of said back portion and upwardly from the lower edge thereof to a point between the shoulders, and having its upper end tapered and secured to the back portion at a middle point on the shoulders thereof.

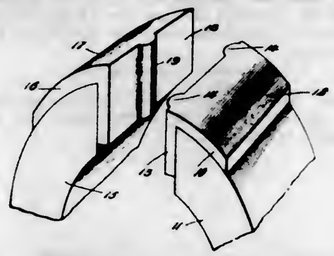
1,426,025. DRIP-CUP FOR FOOD CUTTERS. HELMA T. WALDNER, Middletown, Conn. Filed June 22, 1922. Serial No. 570,065. 3 Claims. (Cl. 17—20.)



1. A drip-cup for food cutters comprising a cup, a cap closing the lower end thereof, said cup provided with an upwardly projecting arm and a finger.

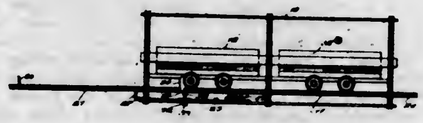
1,426,026. ATTACHMENT FOR VISE JAWS. OSCAR A. WEBSTER, Edgewood, R. I., assignor to Allen Wrench & Tool Company, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 1, 1921. Serial No. 457,602. 1 Claim. (Cl. 81—38.)

A work-bending attachment for vise-jaws, comprising a pair of cooperating shoes shaped to approximately fit and be independently supported on the opposite jaws of the vise, one shoe having a pair of vertically-disposed widely-separated ribs and the other shoe having a single rib



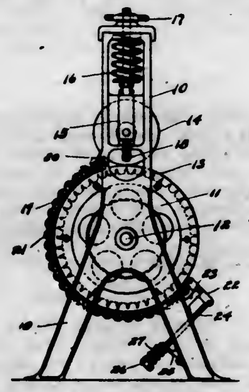
located to engage the work at a point intermediate the pair on the opposite jaw whereby a closing action of the jaws bends the work engaged by said ribs.

1,426,027. ROTARY CAR TIPPLE. ALEXANDER H. WOOD, Kildav, Ky., assignor to Wood Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed June 15, 1917. Serial No. 174,969. 3 Claims. (Cl. 214—52.)



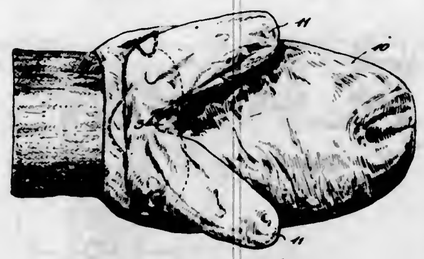
1. In a car unloading apparatus, the combination of a rotatable dump structure having rails therein to receive a car, a fixed approach track leading thereto, a fixed receiving track leading therefrom, a movable stop within the rotatable structure to hold a car, said stop adapted to be released through movement of the structure from its overturning position to its normal upright position, a part on the fixed receiving track, and means for resetting the stop, said means being set in operation by contact of a passing car with the part on the fixed receiving track.

1,426,028. HOOP-FORMING MACHINE. JAMES E. WRIGHT, Bay City, Mich. Filed Apr. 19, 1920. Serial No. 375,016. 6 Claims. (Cl. 144—255.)



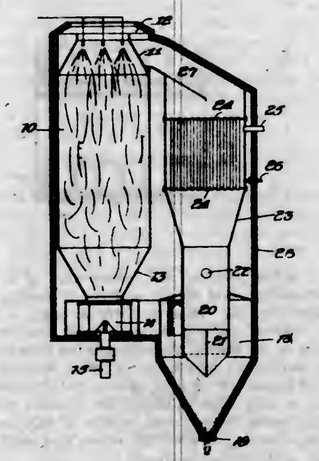
1. A hoop forming machine comprising a frame, a crimping wheel mounted in the frame and having crimping teeth to engage the inner face of the stock, a flexible member extending partially around the crimping wheel concentric with the same and provided at intervals with means for engaging, kneading, and stretching the outer face of the stock while the opposite portion of the inner face is being crimped, and means for rotating the crimping wheel.

1,426,029. GLOVE OR MITTEN. CHARLES E. YOUNG, Shenandoah, Iowa. Filed June 8, 1921. Serial No. 476,023. 3 Claims. (Cl. 2—103.)



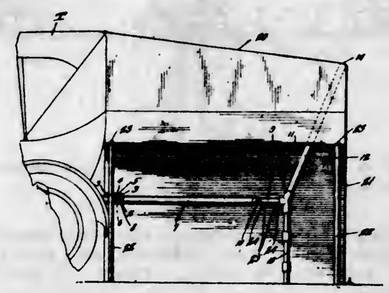
1. A hand covering comprising, in combination, a hand portion having a thumb opening, a plurality of tabs integral with said hand portion projecting into said opening, a thumb portion having a tab thereon, said thumb portion secured to said opening by a seam, said tabs each crossing said seam at points where the greatest strain will come, and secured to the material upon the other side of the seam.

1,426,030. SPRAY DESICCATION APPARATUS. HANS J. ZIMMERMANN, Chicago, Ill., assignor, by mesne assignments, to R. Stutzke Company, a Corporation of Illinois. Filed Oct. 25, 1918. Serial No. 259,655. 4 Claims. (Cl. 127—9.)



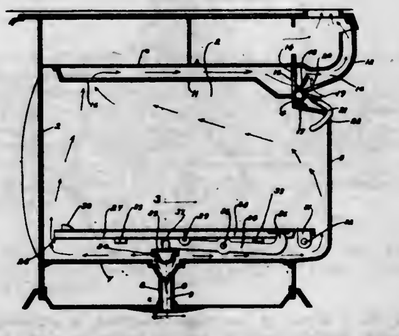
1. In combination with a vertical drying chamber, a centrifugal fan mounted below the said chamber and with its axis vertical, the central axial inlet of the fan forming the bottom of the said chamber, a vertical cyclone dust collector mounted in proximity to the said fan, and a communication duct forming the tangential outlet of the said fan and the tangential inlet of the said cyclone dust collector.

1,426,031. CAMPING ATTACHMENT FOR MOTOR VEHICLES. LOREN W. RAY ANDRIST, Mankato, Minn. Filed Nov. 19, 1921. Serial No. 516,420. 5 Claims. (Cl. 5—72.)



1. A structure of the class described including an end member for attachment to a vehicle, side arms extending therefrom, a second end member, side rods extending therefrom for attachment to the side arms, standards extending from said second end member, the said member being reversible to position the standards for use either as supporting legs or as upstanding members, side rails insertible between and detachably connected to the arms and rods for holding the end members apart for use as bed frame, a bed bottom detachably connected to the end members and to the side rails, and means upon the arms and rods for engaging and holding the side rails when arranged transversely between the end members when the arms and rods are secured together.

1,426,032. STOVE OVEN. EUGENE L. BAKER, Taunton, Mass. Filed Jan. 17, 1921. Serial No. 437,868. 4 Claims. (Cl. 126—36.)

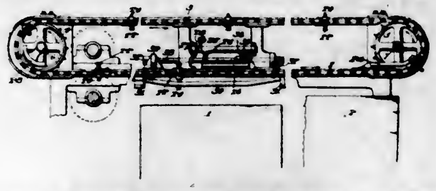


1. In a device of the class described, an oven having an air inlet in its bottom; a member forming a closure for the inlet and rendering the bottom continuous; means for lifting said member to open the inlet; and a deflector mounted to swing in the oven over and away from said member, the deflector engaging and actuating said means when the deflector is swung over said member.

1,426,033. DELIVERY MECHANISM FOR PRINTING MACHINES. HOWARD M. BARNES, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 1, 1921. Serial No. 457,644. 25 Claims. (Cl. 271—64.)

1. In a sheet delivery mechanism, an endless delivery carrier having a series of sets of grippers operable to

take all of the sheets at the same point, and means for automatically causing certain of the sets of grippers to



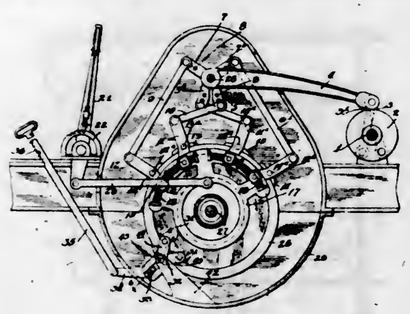
travel in different paths for conveying and delivering sheets to different piles.

1,426,034. LIFTING DEVICE FOR PHONOGRAPH DISKS. JACOB L. BAUER, Milwaukee, Wis. Filed July 20, 1920. Serial No. 397,594. 2 Claims. (Cl. 274—9.)



1. The combination of a phonograph turn table, a plate carried thereby, and means adapted to raise said plate by contact therewith at one point so as to tilt the plate and exercise a tilting action on a record.

1,426,035. POWER TRANSMISSION. CLEMENT G. BRANSTRATOR, Bushnell, Ill., assignor of one-fourth to John C. Hoehnen and one-fourth to George G. Bayne, both of Bushnell, Ill., and one-fourth to Bayne Manufacturing Company, Bushnell, Ill., a Corporation of Illinois. Filed Apr. 29, 1920. Serial No. 377,426. 4 Claims. (Cl. 74—53.)

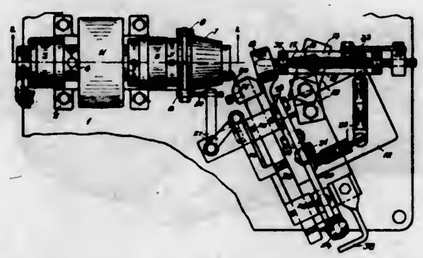


1. In a device of the class described, a plurality of friction driving members having pivots at their lower ends, a reversing member having slots through which said pivots extend, said reversing member also having abutments, springs between said pivots and abutments, and means to shift said reversing member to simultaneously reverse the action of said friction members.

1,426,036. PROCESS FOR THE MANUFACTURE OF BORNEOLS AND CAMPHENE. BENJAMIN T. BROOKS, Bayside, N. Y., assignor of one-half to the Viscoloid Co., Leominster, Mass., a Corporation of Massachusetts, and one-half to The Fiberloid Corporation, Indian Orchard, Mass., a Corporation of Massachusetts. Filed Apr. 6, 1920. Serial No. 371,751. 2 Claims. (Cl. 260—99.)

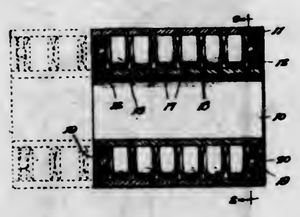
1. In a process of making borneols and camphene, the step which consists in reacting upon the mother liquor, obtained by reacting upon pinene with dry hydrochloric acid and separating crystallizable bornyl chlorid from the reaction mixture, with a fatty acid in presence of a fatty acid salt of an alkali metal for the preparation of a bornyl ester and camphene.

1,426,037. DEVICE FOR FORMING COUPLING ENDS FOR GAS AND FLEXIBLE METAL TUBING. PETER J. BURKE, Meshanticut Park, R. I., assignor to Atlantic Tubing Company, Providence, R. I. Filed Mar. 7, 1921. Serial No. 450,506. 13 Claims. (Cl. 82—2.)



1. A machine for forming coupling ends for flexible tubing, comprising a stationary tube guide, a rotary chuck having a rearward hollow support journaled for rotation about the guide, the latter having a stationary extension into the hollow support, a cutter mounted for movement toward and from the chuck to sever the projecting end of the tube, and a single means of control for operating the chuck and the cutter.

1,426,038. ROLLER BEARING. ALLEN B. BURKHOLDER, Flint, Mich. Filed Aug. 7, 1920. Serial No. 401,985. 6 Claims. (Cl. 64—62.)

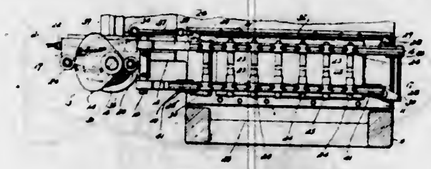


6. In a roller bearing, the combination of a sleeve, a ring surrounding said sleeve, spacers extending between and connecting the rings to form a cage, a series of abutting rollers confined between said spacers parallel to the axis of the sleeve, the rollers being loosely mounted for free individual movement, a shell surrounding the sleeve and sustained by said rollers, anti-friction devices journaled on said rings to project at opposite sides thereof coacting with the terminal rollers of said series, and thrust rings fitting between the sleeve and shell coacting with said anti-friction bearings.

1,426,039. TRANSFER MECHANISM. ZENAS P. CANDEE, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 20, 1920. Serial No. 383,003. 12 Claims. (Cl. 198—218.)

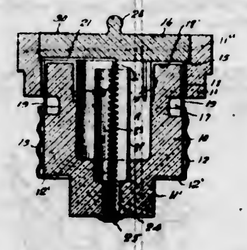
1. A transfer mechanism having companion members, means having connection with both of said members at

points relatively distant from each other for positively moving said members toward and away from each other,



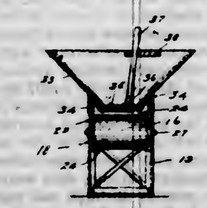
and means for imparting an endwise movement to said members while held in one of their relative positions.

1,426,040. MAGAZINE FUSE PLUG. PETER M. CARMICHAEL, New York, N. Y. Filed June 12, 1920. Serial No. 388,502. 3 Claims. (Cl. 200—125.)



1. An electric fuse plug comprising a body having socket engaging contacts and channels leading to one of them, fuse wires disposed in the channels and connected with the contact to which the channels lead, the body having also radial ribs alternating with the fuse wires, a rotatable cap for the body having radial grooves disposed to receive the ribs respectively and separate the fuse wires, a contact carried by the cap and rotatable therewith into engagement with the fuse wires successively, and a resilient conducting element connected between the last named contact and with the socket engaging contact to which the fuse wires are not connected and under the influence of which resilient member the cap is held yieldably with the ribs in the grooves.

1,426,041. FEED REGULATOR. HUGH J. CARSON, Fairfax, Minn. Original application filed July 27, 1916, Serial No. 111,636. Patent No. 1,294,397, dated Feb. 18, 1919. Divided and this application filed Mar. 19, 1919. Serial No. 283,601. 3 Claims. (Cl. 83—44.)



1. A feeding device comprising a hopper having parallel end walls and converging side walls spaced at their bottom edges, a flat member extending substantially horizontally between said edges and overlapping one of the same, said member being pivoted to the end walls of the hopper on an axis located above said member and at one side of the center thereof.

1,426,042. WATCH FOB. JULIAN EVELYN CHURCH, Providence, R. I. Filed Apr. 14, 1922. Serial No. 552,802. 4 Claims. (Cl. 63—21.)



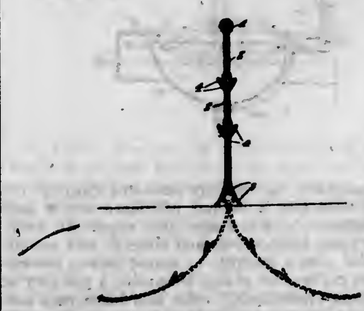
1. A watch fob comprising an attaching and adjusting member formed from a single length of wire provided with a plurality of bends defining parallel gripping arms one end portion of said length of wire being formed with a hook adapted for engaging the article to which the fob is connected, the other end of the wire being formed with a bend defining a closed loop, and a ribbon having one end portion permanently attached to one of the arms and passed between and gripped by the other arm and forming short and long ornament supporting loops.

1,426,043. BOOKBINDING. EUGENE A. CLAUSS, Providence, and DAVID H. ADAMSON, Cranston, R. I. Filed Apr. 1, 1921. Serial No. 457,712. 1 Claim. (Cl. 281—21.)



In a book, a stack of leaves having a cloth strip attached to the rear side edge thereof by a flexible adhesive and having perforations adjacent said edge, a cover having a back and side boards connected thereto, and tapes passed through the perforations and having their ends turned outwardly and then inwardly and their terminals cemented to the side boards in a position to hold the rear side edge of the stack spaced from the back in both open and closed position of the book.

1,426,044. ANCHOR FOR FENCES. IRA E. CLUM, Lima, Ohio. Filed Dec. 9, 1919. Serial No. 343,465. 1 Claim. (Cl. 189—90.)



A fence anchor formed of a single strip of sheet metal bent to provide a central strand receiving eye and legs ex-

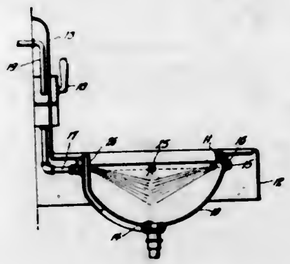
tending from the eye and having outwardly curved pointed terminals, said legs normally contacting throughout those portions thereof between the eye and the curved terminals, there being barbs upon the legs and diverging toward the eye, said eye being completely closed around the wire of a fence fabric after application thereto.

1,426,045. CORNCRIB. IRA E. CLUM, Lima, Ohio. Filed Dec. 10, 1919. Serial No. 343,849. 1 Claim. (Cl. 189—3.)



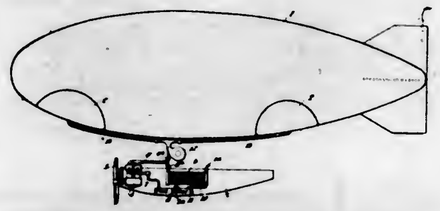
A metal wall for corn cribs and the like provided with horizontal angular corrugations and outstruck rectangular lips upon the under or overhanging portions of the exterior corrugations, said lips providing angular ventilating openings in said portions, the lower edges of the lips being disposed in horizontal planes extending below the horizontal lower edges of the openings back of the lips, all of the lips being disposed vertically with their side edges substantially in the same vertical plane with the corresponding edges of the opening.

1,426,046. WASH-ROOM FIXTURE. JACOB LOUIS COHEN, Chicago, Ill., assignor of one-third to Lewis Ruskin, Chicago, Ill. Filed Oct. 20, 1921. Serial No. 508,949. 1 Claim. (Cl. 4—24.)



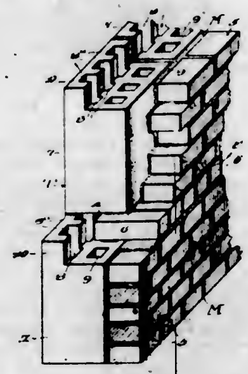
A wash receptacle, an inwardly extending flange at the top of said receptacle, a conduit positioned within said receptacle adjacent to said flange, said receptacle, flange and conduit being homogeneous and integral, said conduit being provided with a plurality of spaced orifices communicating with the interior of said receptacle, a plurality of nozzles positioned immediately under said flange, each nozzle having an inlet operture, and means for securing said nozzles to the inner surface of said receptacle with their inlet apertures registering with said orifices respectively.

1,426,047. AIRSHIP. CHARLES JOHN COOKE, Washington, D. C. Filed Feb. 13, 1919. Serial No. 276,711. 3 Claims. (Cl. 244—6.)



1. The combination in an airship, an internal combustion engine, with a propeller and a liquid fuel supply; a gas bag with sustaining gas, and a separate receiver with combustible gas; and connection with regulating means for cutting off the liquid fuel and opening the gas supply from the receiver to the engine when the airship encounters a warm air stratum, to thereby reduce the total volume of expansible gas.

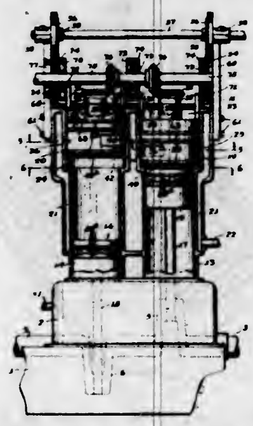
1,426,048. WALL CONSTRUCTION. WILLIAM GUSTAVUS DEMAREST, Metuchen, N. J. Filed Sept. 2, 1920. Serial No. 407,642. 1 Claim. (Cl. 72—41.)



A composite brick and tile wall construction comprising in combination with a brick facing having ordinary courses and header courses, courses of tile including relatively large blocks arranged adjacent the ordinary courses and constructed of vertical webs defining inner and outer vertical openings, said header courses of the facing extending over the ends of said relatively large blocks and overlapping the outer vertical openings thereof and terminating short of the inner vertical openings, said large blocks having relatively small block portions at one end disposed behind the header courses and spaced therefrom and comprising integral extensions of vertical webs of said large blocks, said web extensions defining vertical openings, the vertical openings of the relatively small block portions being alined with the inner vertical openings of the relatively large blocks, and the inner vertical openings of the large blocks and the vertical openings of the small block portions being in open and direct communication to define continuous air passages through said walls whereby passage of moisture entirely through the wall is prevented and the moisture is dissipated.

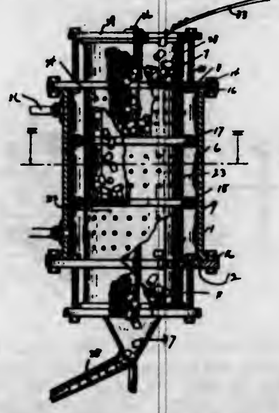
1,426,049. HYDROCARBON ENGINE. WILLIAM DINWIDDIE, Metuchen, N. J. Filed Nov. 1, 1918. Serial No. 260,660. 22 Claims. (Cl. 123—48.)

1. A hydrocarbon engine having, in combination, a work cylinder, the upper part of which is of greater diameter than the lower part; pistons working in the upper and lower parts of the cylinder; valve mechanism carried



by the upper piston; means for actuating said valve mechanism, and means by which variable compression of the charge may be produced in the work cylinder.

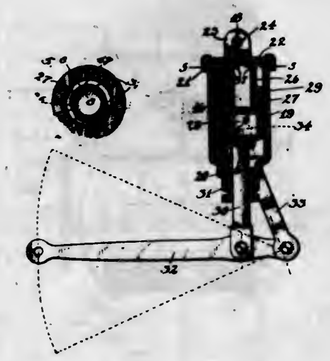
1,426,050. COOKING RETORT. FRANK B. DONNELLAN, San Francisco, Calif. Filed Sept. 3, 1921. Serial No. 498,244. 2 Claims. (Cl. 126—272.)



1. In a cooking retort, a vertically disposed cylindrical casing having end members rigidly secured thereto, a vertical shaft centrally mounted therein, means for revolving the shaft, a plurality of cylinders having radial webs therein for dividing the cylinders into sectorial compartments slidably engaging the shaft and rotary therewith, a plate having a sectorial opening therein interposed between each two cylinders so that no two succeeding sectorial openings register, and means for preventing the plates from rotating comprising radial projections extending from the plates and vertical guide members engaging the projections.

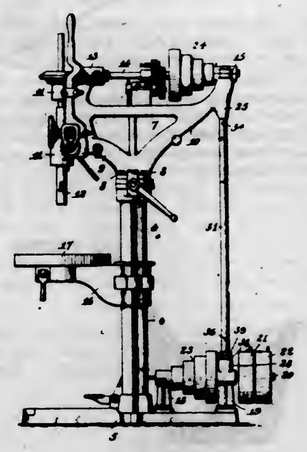
1,426,051. SHOCK ABSORBER FOR VEHICLES. JOHN ECKHARD, Buffalo, N. Y. Filed Sept. 24, 1919. Serial No. 326,014. 7 Claims. (Cl. 188—88.)

1. A shock absorber comprising a closed casing adapted for connection to one part of a vehicle, a dash-pot device within said casing, a lever connected at diametrically opposite points to the exterior of said casing, and a second lever pivotally connected to said dash-pot



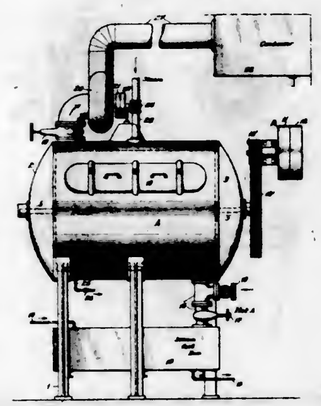
device and to said first-mentioned lever and adapted for connection to another part of a vehicle movable with respect to the first-mentioned part of the vehicle.

1,426,052. DRILL PRESS. JOHN ECKHARD, Buffalo, N. Y. Filed Apr. 8, 1921. Serial No. 459,525. 6 Claims. (Cl. 77—5.)



1. A drill press having a frame provided with a rearwardly-projecting portion at its upper end and a rearwardly-extending portion at its lower end, a pair of bearing uprights secured to said rearwardly-extending portion, one of said bearings having an upwardly opening socket formed therein, a drive shaft journaled in said bearing uprights, and a tubular brace column having connection at its upper end with said rearwardly-projecting portion and its lower end externally threaded and entered in said upwardly opening socket, and a nut threaded onto said externally threaded lower end and bearing against the upper end of the bearing upright having said socket therein.

1,426,053. DRY CLEANING AND STERILIZING PROCESS. THOMAS P. ENDICOTT, Atlantic City, N. J. Filed Aug. 14, 1920. Serial No. 403,529. 6 Claims. (Cl. 8—8.)



1. The process of dry-cleaning wearing apparel or the like, which comprises stirring or tumbling a quantity such material dampened by a solution of soap and solvent immiscible in water, steam-distilling the solvent from the material and drying the material in a current of warm air.

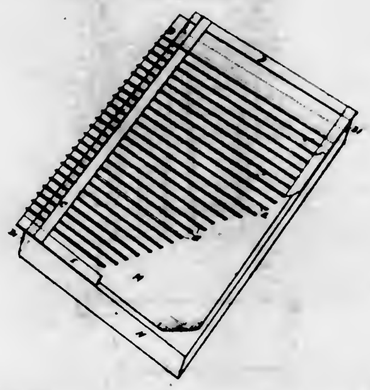
1,426,054. PROCESS OF DESULPHURIZING IRON ORES, IRON AND STEEL, AND COKE USED IN THE METALLURGY OF IRON. WILLIAM L. ESTABROOKE, Yonkers, and DANIEL D. JACKSON, New York, N. Y., assignors, by mesne assignments, to John Teele Pratt, New York, N. Y., Daniel Dana Jackson, Brooklyn, N. Y., and John Davis Sears, Bloomfield, N. J., trustees. Filed July 13, 1920. Serial No. 395,873. 19 Claims. (Cl. 75—60.)



1. A process of treating iron ores, iron and steel, for diminishing or eliminating the sulphur content thereof, comprising bringing the sulphur or sulphur compounds of said metal into contact with a halogen, whereby a volatile sulphur halide is formed.

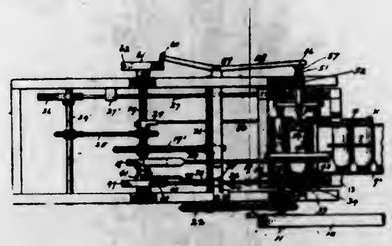
1,426,055. DEVICE FOR USE OF THE BLIND IN WRITING. PAUL FAST, Fresno, Calif. Filed Oct. 27, 1919. Serial No. 333,558. 2 Claims. (Cl. 35—6.)

1. In a device of the character described, in combination with a flat base having two sides at right angles to each other, of a frame having depending flanges on two sides thereof at right angles to each other, and



a plurality of rigid cross bars rectangular in cross section attached to said frame parallel with one of said flanges and equi-distant apart, substantially as described.

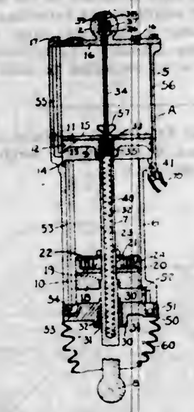
1,426,056. FRUIT-JAR-CAPPING MACHINE. GEORGE E. FRAZIER, Muncie, Ind., assignor of one-half to Clyde C. Cook, Muncie, Ind. Filed Dec. 3, 1920. Serial No. 427,972. 10 Claims. (Cl. 226—88.)



1. In a machine for capping jars, means for holding a cap in a fixed and stationary position, means for supplying a jar for each cap so held with the threaded mouth of the jar opposite the threaded mouth of the cap, rotating roller means for rotating the jar, means for forcing the jar while rotating into the cap, and means for holding the jar-rotating means at a fixed distance from the cap-holding means.

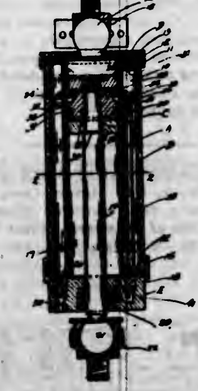
1,426,057. PNEUMATIC VEHICLE-BODY SUPPORT AND AIR CONTROL. WILLIAM G. FRITZ, Clear Lake, Minn. Filed Mar. 1, 1920. Serial No. 362,407. 9 Claims. (Cl. 267—65.)

1. A pneumatic vehicle body support comprising a cylinder, a piston reciprocably mounted within said cylinder, means connecting the cylinder with the vehicle body, means adapted to connect the piston with the vehicle running gear, means for admitting air under pressure to the cylinder to form a pneumatic cushion between the cylinder and piston, a spring actuated relief valve mounted in the cylinder, means connected with and controlled by the position of the piston for opening said valve, said means comprising a rod connected at its upper end to the valve and having its lower end slidably mounted in the piston, a stop secured on the



lower end of the rod, and means above said stop on said rod for deflecting the upward course of oil around said rod.

1,426,058. SHOCK ABSORBER. WILLIAM G. FRITZ, Clear Lake, Minn. Filed Nov. 11, 1920. Serial No. 423,330. 5 Claims. (Cl. 267—65.)

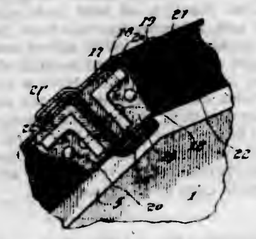


1. A shock absorber, comprising, in combination, a piston, a pair of cylinders of different diameters forming an enlarged expansion chamber and in the smaller of which cylinders the piston is reciprocably disposed and divides the space into upper and lower cushioning chambers, means connecting the cylinders with a body to be supported, means connecting the piston with a support, means for admitting air to the inner cylinder from the outer atmosphere to form a pneumatic cushion between said cylinder and piston, pressure transferring means connected with the expansion chamber and with the upper and lower cushioning chambers, and means for relieving compressed air back into the expansion chamber from the upper cushioning chamber at a point below the upper end of the stroke of the piston.

1,426,059. OVEN. MORRIS FROEHLICH, Chicago, Ill. Filed July 17, 1919. Serial No. 311,466. 5 Claims. (Cl. 107—59.)

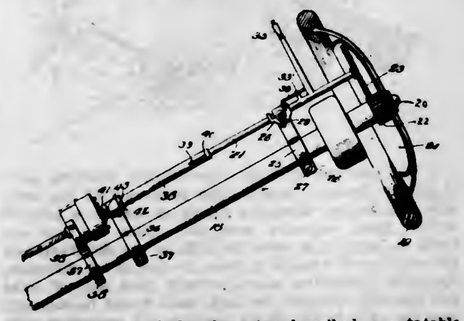
4. In an oven of the kind described, and in combination, a pair of end frames each having an inwardly

extending flange of angle iron formation, a plurality of side frames mounted upon said flange, each side frame section comprising a frame member having a lug pro-



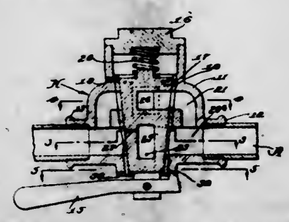
jecting therefrom at each end and bars mounted over and secured to said lug to connect the end portions, cover sheets for said sections, and insulating material disposed between said cover sheets.

1,426,060. ILLUMINATING SYSTEM FOR VEHICLES. SAMUEL V. GRAMLICH, Paradox, Colo. Filed Aug. 31, 1920. Serial No. 407,096. 3 Claims. (Cl. 200—59.)



1. In a device of the character described, a rotatable element operated from the steering mechanism of an automobile, a fixed switch box having segments, a head rotatable upon the box and provided with a brush to coact with said segments, a shaft coupled with said element and connected to said head for rotating the head, the shaft being formed of telescopic sections whereby said shaft may be uncoupled from the element, a stationary bracket supporting the shaft, and manually releasable means carried by the shaft to coact with said bracket locking the shaft coupled with said element.

1,426,061. AIR-BRAKE SYSTEM. JOHN H. HANLON, Somerville, Mass. Filed Nov. 19, 1920. Serial No. 425,208. 8 Claims. (Cl. 303—85.)

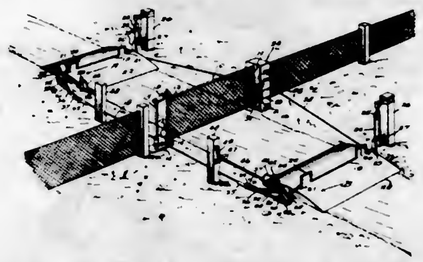


1. In combination with the train pipe and the branch pipe leading to the auxiliary tank of an air brake system, a valve at the junction of said train pipe and said branch pipe, said valve having two ports through the movable member of said valve, one of said ports being a

two-way port and the other of said ports being a three-way, said ports being one above the other.

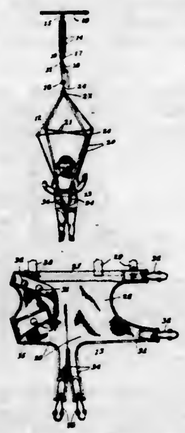
7. In combination with the train pipe and the branch pipe leading to the auxiliary tank of an air brake system, a valve at the junction of said train pipe and said branch pipe, said valve having two main ports through the movable member of said valve, one of said main ports being a straight port through said movable valve member, and the other of said main ports being a three-way passage, there being bleed ports, one in the movable valve member connecting with the straight passage through it, and the other in the valve body leading to the atmosphere, so that when the straight main port is crosswise of the train pipe the portion of the train pipe at the rear of the valve will be open to the atmosphere.

1,426,062. AUTOMATIC GATE. THOMAS E. HARRINGTON, Silver City, N. Mex. Filed July 26, 1921. Serial No. 487,730. 8 Claims. (Cl. 39—33.)



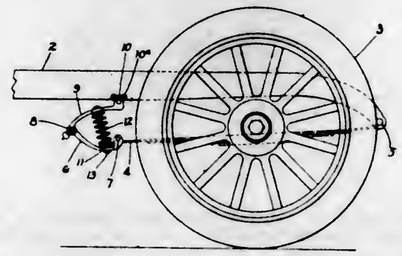
1. The combination with a horizontally swinging gate, of a trip device arranged upon each side of the gate, said trip device embodying a pair of cranks, a pair of slotted links connected with the cranks so that one crank is adapted to move its link in one direction, and the other crank adapted to move its link in one direction, operative connecting means between each pair of links and the gate to swing the gate, latch means to normally lock the gate in the closed position and connected with the trip device, and latch means to lock the gate in the open position and connected with the trip device.

1,426,063. BABY EXERCISER. FRANCES M. HASKINS, New York, N. Y. Filed Sept. 20, 1921. Serial No. 501,930. 4 Claims. (Cl. 155—20.)



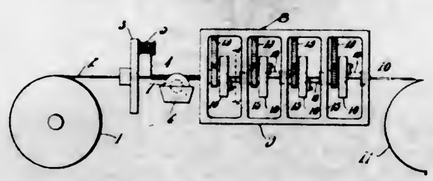
2. In a baby exerciser, a sling comprising a flexible seat portion extending well forward beneath the baby's hips and shaped to fit the body so as to leave its legs perfectly free and unobstructed and extending also upward to its waist line, a waist band attached to the portion having the seat, a pair of crotch straps extending forward and upward from the seat to the waist band, and a pair of hip straps extending laterally and forward around the hips and adapted to be connected to each other at the front.

1,426,064. SPRING SHACKLE. GEORGE H. HAYES, St. Paul, Minn. Filed Nov. 6, 1920. Serial No. 422,313. 5 Claims. (Cl. 267—17.)



1. The combination, with a vehicle frame, of a spring having one end attached to said frame and a shackle pivotally connecting the other end of said spring with said frame, said shackle comprising a link and carrier having a comparatively long pivotal bearing upon one another at one end, the other end of said link and carrier being pivotally connected respectively to said spring and frame, and compression springs interposed between said link and carrier, and separated a considerable distance for yieldingly resisting relative movement of said link and carrier toward one another.

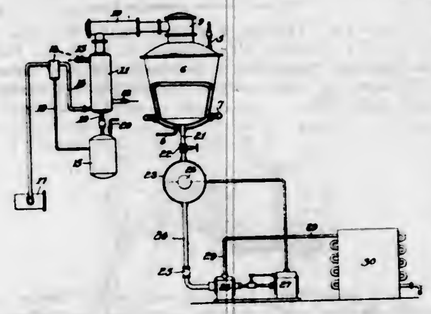
1,426,065. INSULATING FLAT-WIRE CONDUCTORS. JOHN ALLEN HEANY, New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation, a Corporation of Delaware. Filed Nov. 16, 1918. Serial No. 262,873. 6 Claims. (Cl. 173—244.)



5. An apparatus for finishing covered flat wire, comprising, a wire supporting member arranged to engage one of the faces of a section of wire, a wire supporting member arranged to engage the opposite face of a different section of the wire, means for advancing the wire to effect a longitudinal smoothing action on the engaged sections, and means for transversely smoothing the free faces of the supported sections.

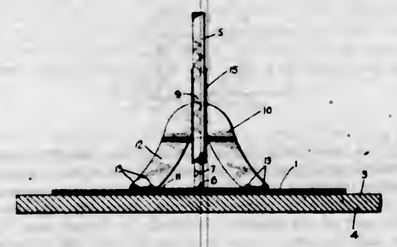
1,426,066. ART OF DEALCOHOLIZING BEVERAGES. HERMAN HEUSER, Evanston, Ill. Filed June 4, 1919. Serial No. 301,762. 4 Claims. (Cl. 195—1.)

1. In apparatus for dealcoholising beverages, in combination with means for heating the beverages under reduced pressure, a receptacle, a stand pipe adapted to receive the discharge from the heating means and



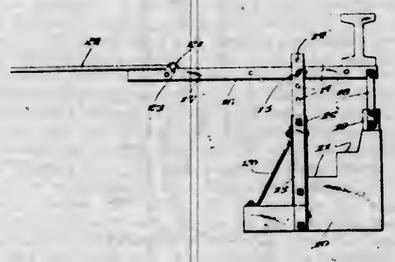
terminating near the bottom of the receptacle, and cooling coils within the receptacle.

1,426,067. DEVICE FOR STENCILING. EDWARD F. HILL, Chicago, Ill., assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 9, 1921. Serial No. 521,104. 8 Claims. (Cl. 101—4.)



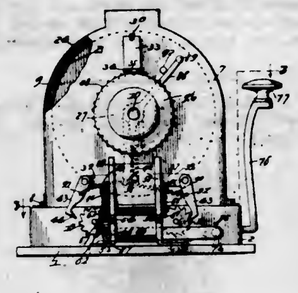
1. A device for cutting stencils, comprising, in combination, an impression implement having type and adapted to be manually directed against the surface of a stencil sheet to cut an impression of said type therein, and means, comprising a movable frame providing a guideway for said implement, for guiding said type against the surface of said stencil sheet when said implement is operated.

1,426,068. AUTOMOBILE JACK. EDWIN A. HOWE, Bancroft, Iowa. Filed June 11, 1921. Serial No. 476,861. 1 Claim. (Cl. 254—120.)



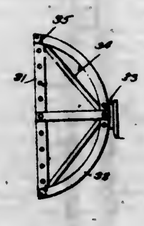
A jack comprising a base block having its upper face formed with a longitudinal series of steps, a standard erected on the lowermost of the steps, a lifting lever pivotally supported on the upper end of the standard, a pivotally mounted extension lever mounted on the lifting lever, depending links pivotally supported on the working end of the lifting lever, and a block carried by the lower ends of the links for engagement on the upper face of one or another of the steps to support the working lever at different elevations.

1,426,069. PRINTING AND STAMPING MACHINE. HUGH F. HURST, Richmond, Va., assignor to Hurst Label Printing Machine Company, Incorporated, a Corporation of Virginia. Filed May 7, 1921. Serial No. 467,639. 16 Claims. (Cl. 101—102.)



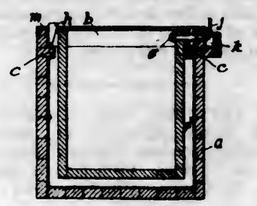
1. In a label printing and stamping machine, a casing, rolls mounted therein, an inking ribbon operatively winding from one to the other of said rolls, a printing cylinder in said casing, a label supporting and unreeling mechanism, an escapement detent operatively connected with one or the other of said rolls, a label feed carried by the escapement detent and operatively connected with the label supporting and unreeling mechanism, for feeding the label into the machine, a label printing die in the casing, and means for simultaneously impressing the label and the ribbon toward and upon the cylinder and actuating the escapement detent.

1,426,070. TRACTOR. VICTOR IVARSON, Cleghorn, Iowa. Filed Sept. 27, 1918. Serial No. 255,971. 1 Claim. (Cl. 280—33.44.)



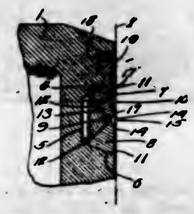
In a draft device for tractors, the combination of a frame adapted to be rigidly secured at its front end to a rearwardly extending draft ing of a tractor and having rearwardly extending diverging arms, and a cross bar connecting the ends of said arms and having a plurality of openings for the attachment of draft means adjustably along said cross bar.

1,426,071. ARRANGEMENT IN ELECTROLYTIC TANKS WITH DIAPHRAGM CELLS. GUSTAV HAGLUND, Christiania, Norway. Filed Sept. 10, 1920. Serial No. 409,387. 8 Claims. (Cl. 204—5.)



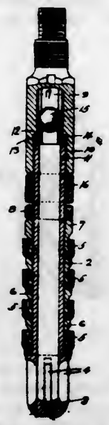
1. The combination with an electrolytic tank and a diaphragm cell arranged therein of a tube, one end of which is situated in the diaphragm cell, the other end being pressed against the walls of an opening in a wall of an electrolytic tank to form a tight connection therewith.

1,426,072. PISTON. OSCAR W. HANSON, Salina, Kans. Filed Oct. 27, 1920. Serial No. 419,902. 6 Claims. (Cl. 74—109.)



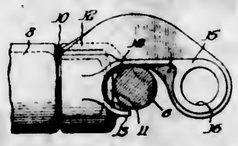
3. A piston having an annular groove provided with gently inclined side walls, and packing rings arranged in said grooves and having abruptly inclined inner surfaces and gently inclined outer surfaces, one of said rings being provided with an oil groove and reduced rapid wearing and seating projections.

1,426,073. PUMP VALVE. ROLAND L. HAY, Lancaster, Ohio, assignor to Frick & Lindsay Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 9, 1919. Serial No. 309,679. 1 Claim. (Cl. 103—225.)



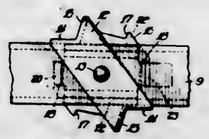
A working or pumping valve for oil-well pumps, comprising a barrel having a bottom-head integral therewith, a crown secured directly to the upper end of said barrel, cups and rings on said barrel, interposed between said head and a lock-nut engaging the uppermost of said rings, and a lock-nut on said barrel engaging the lower end of said crown.

1,426,074. FULCRUM MECHANISM. WILLIAM C. HEDGCOCK, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 8, 1921. Serial No. 490,501. 10 Claims. (Cl. 188—232.)



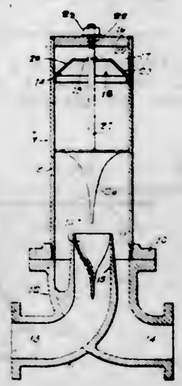
3. In a brake beam having a compression member, a tension member and a fulcrum interposed therebetween, the fulcrum having a face engaging the tension member, and a member coacting with the fulcrum and tension member to maintain the fulcrum face in engagement therewith.

1,426,075. REVERSIBLE FULCRUM STRUCTURE. WILLIAM C. HEDGCOCK, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 11, 1921. Serial No. 491,406. 5 Claims. (Cl. 188—232.)



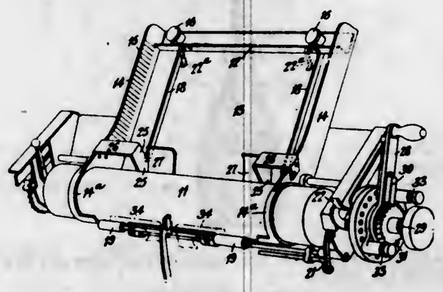
3. An integrally formed reversible fulcrum having V-shaped wall portions for embracing a brake beam compression member and limiting reversible movements of the fulcrum with respect thereto, shoulders on the fulcrum, and means adapted positively to engage said shoulders and the brake beam member to lock the fulcrum in operative position relative to the brake beam member.

1,426,076. AIR SEPARATOR FOR FEED WATER. MILLARD R. HICKMAN, San Francisco, Calif. Filed Feb. 20, 1922. Serial No. 538,054. 11 Claims. (Cl. 183—2.5.)



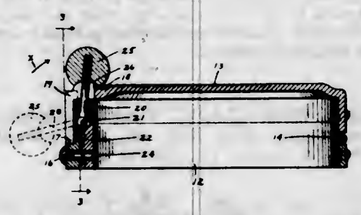
1. In an air separator for feed water, a casing having a water inlet provided with means for imparting a whirling motion to water passing therethrough, a water outlet, a deflector for causing the water to be deaerated by centrifugal force, a baffle, a chamber for the reception of the air separated from the water and means for exhausting air from said chamber.

1,426,077. TYPEWRITING MACHINE. CHARLES M. HILSER, Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 24, 1917. Serial No. 208,543. 24 Claims. (Cl. 197—127.)



2. The combination of a revoluble platen, an introductory chute for said platen, a gage for the rear ends of sheets placed in said chute, a clip for said sheets on said gage, and a feed roll to hold the sheets upon the platen, said roll serving as a gage for the leading end of a second sheet introduced between the first sheet and the platen.

1,426,078. TOP FOR HAND BAGS, ETC. CROFTON C. HOLDEN, Leominster, Mass., assignor to Royal Comb Company, Leominster, Mass., a Corporation of Massachusetts. Filed Jan. 26, 1922. Serial No. 531,853. 3 Claims. (Cl. 150—46.)



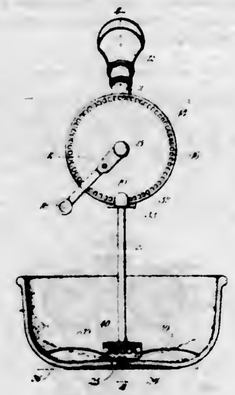
1. A receptacle top of the character stated, comprising two members hinged together, and having opposed abutting faces, which meet when the top is closed, one member having an outwardly projecting convex boss, constituting a fixed fastener member, and a slot formed in part in said boss, and extending to and through a marginal portion of said member, and a swinging fastener member composed of a shank hinged to the other member, and a solid head unyieldingly attached to the shank and having a concave recess formed to receive said boss, the arrangement being such that when the swinging fastener member is moved to engage the boss, the head is initially pressed against the boss, and causes a slight displacement of one of said parts from its normal position, until the head receives the boss, without moving the head longitudinally of the shank, whereupon the displaced part springs back to its normal position, so that the head recess and the boss are interengaged, the unyielding attachment of the head to the shank of the swinging member confining the said head in firm engagement with the boss.

1,426,079. SERVICE BOX OR TRAY. WILLIAM V. HOLLEY, New York, N. Y., assignor to New York Bath Manufacturing Co., a Corporation of New York. Filed Mar. 9, 1920. Serial No. 364,585. 3 Claims. (Cl. 217—69.)



1. A service box or tray having side walls and a bottom and means for fastening the bottom to the walls, a metal reinforce extending entirely around the bottom and projecting beyond the edges thereof and secured to the bottom by the fastening means and subsequently folded inwardly to overlie the fastening means to prevent displacement thereof, in addition to accomplishing its reinforcing purposes.

1,426,080. CREAM WHIP AND THE LIKE. EDWARD E. HOLT, Chicago, Ill. Filed Jan. 11, 1922. Serial No. 528,401. 4 Claims. (Cl. 259—134.)



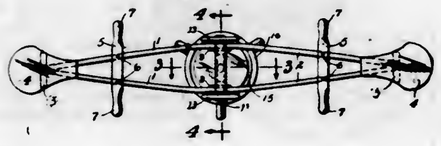
1. As a new article of manufacture, a paddle for a cream whip, comprising in combination a pair of blade members located at right angles to each other, said blade members comprising strips of relatively thin and broad spring-like metal, the central crosswise portions of said strips being flat and lying in direct contact, and the arms of one strip being curved in such a manner as to be concave upwardly, and the arms of the other strip being curved in such a manner as to be concave downwardly, the paths of travel of said arms intersecting each other during rotation, a hub member in contact with the central portion of the top face of the top member, and a locking sleeve in contact with the central portion of the bottom face of the bottom member, and having prongs extending through both members into locking engagement with the hub member aforesaid, substantially as described.

1,426,081. SEPARATING ALUMINUM CHLORIDE FROM HEAVY HYDROCARBON. CHARLES OSCAR HOOVER, Chicago, Ill., assignor to The Hoover Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 3, 1922. Serial No. 548,912. 8 Claims. (Cl. 23—13.)

1. The improvement in the method of recovering aluminum chloride from aluminum chloride hydrocarbon

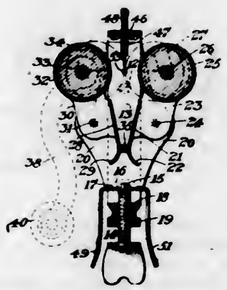
which consists in supplying a solvent to the aluminum chloride hydrocarbon and subliming the mixture thus produced.

1,426,082. TEETER TOTTER. ISIDOR M. JACOBS, Kansas City, and WILLIAM CRAMER, St. Louis, Mo., assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 12, 1920. Serial No. 395,667. 6 Claims. (Cl. 46—22.)



1. The combination of a base, a kingbolt, a rotatable casting fastened to the said base by the said kingbolt, the said base having a groove, a shaft passing through the said casting, wheels mounted thereon and adapted to run in the said groove, a pair of castings through which the said shaft passes, and a beam attached to the said last-mentioned castings.

1,426,083. EDGE-TOOL SHARPENER. OTTO KAMPFE, Bellmore, N. Y., assignor of one-half to Henry C. Walker, New York, N. Y. Filed Apr. 3, 1920. Serial No. 370,977. 5 Claims. (Cl. 51—80.)



1. An instrument for sharpening edge tools comprising an outer frame adapted to receive and hold a tool in a fixed position for the sharpening operation, an inner frame adjustable to position in the outer frame, a pair of roller frames pivotally mounted in the inner frame so as to be movable therewith, a roller mounted adjacent the corresponding ends of each roller frame, a tension device extending between the opposite ends of the roller frames to normally maintain the rollers in contact with each other, and means for turning the said rollers in opposite directions.

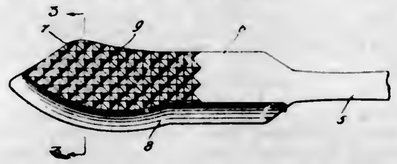
1,426,084. MOP. DUNCAN KENNER, New Orleans, La., assignor to Dry Hand Mop Company, New Orleans, La., a Corporation. Filed Nov. 1, 1920. Serial No. 421,047. 6 Claims. (Cl. 15—120.)

1. In a mop, the combination of a handle, a mop-head consisting of a plurality of loose strands having loops brought together beyond the end of the handle, means securing the strands around the ends of the handle, a



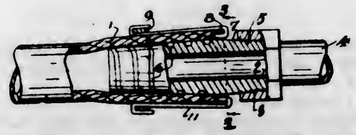
hand grip movable over the handle and carrying the free ends of the strands.

1,426,085. BUTTER SPREADER. SIMON N. KOHN, Cleveland, Ohio. Filed Sept. 1, 1921. Serial No. 497,501. 2 Claims. (Cl. 91—62.5.)



1. A butter spreader provided with a blade having one side flat and a longitudinal edge portion of its other side beveled to form a knife edge, with the portion of the latter side adjacent said beveled portion knurled to form a roughened surface.

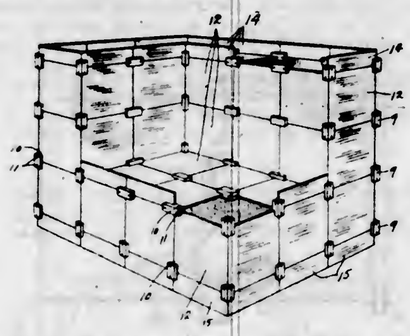
1,426,086. HOSE CLAMP. JOHN R. LOWREY, San Pedro, Calif. Filed Mar. 15, 1920. Serial No. 365,929. 3 Claims. (Cl. 285—84.)



1. In a hose clamp, a hose, a nipple received within said hose, the projecting end of said nipple being tapered away from said hose, a collar having a wedging engagement upon said tapered end of said nipple, a tie wire threaded through apertures formed in said collar, and a clamping band for clamping said hose to said nipple, and the ends of which tie wire are formed into hooks which engage said clamping band.

1,426,087. TOY BUILDING CONSTRUCTION. SYDNEY A. METCALFE, Chicago, Ill. Filed June 30, 1921. Serial No. 481,458. 6 Claims. (Cl. 46—35.)

1. A toy building construction comprising blocks substantially square in transverse cross-section and of substantially twice the length of their widths with slots in their ends, and rectangular sheet material pieces having



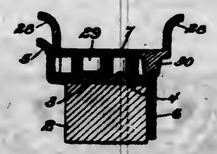
notches in their corners with the edges of said sheets adjacent said notches engaging said slots and held by said blocks in building formation.

1,426,088. TRIPOD AND TRIPOD CLAMP. GEORGE A. MITCHELL, Los Angeles, Calif., assignor to Mitchell Camera Co., Los Angeles, Calif., a Corporation of California. Filed Sept. 21, 1920. Serial No. 411,826. 5 Claims. (Cl. 248—43.)



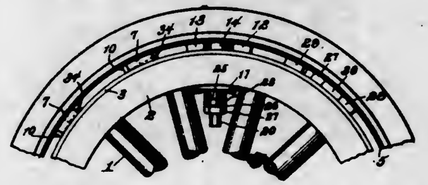
1. In a tripod or the like having an adjustable leg formed of adjustable overlapping sections, means for clamping the sections together, said means comprising a band extending around the sections, a nut member carried by the band to be spaced from one of the sections, a plate carried by said section, and a screw member carried in the nut member to engage the plate.

1,426,089. DEMOUNTABLE RIM. HOWARD N. MOODY, New Orleans, La. Filed Dec. 12, 1921. Serial No. 521,852. 7 Claims. (Cl. 301—17.)



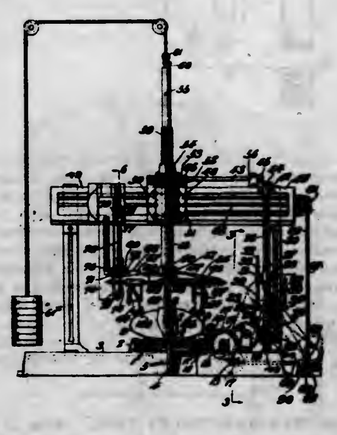
1. In a demountable rim for vehicle wheels, the combination of a fixed rim having a flange at the inner side thereof and flangeless at the outer side thereof, a demountable rim movable laterally on and off the fixed rim via the flangeless side thereof and also movable circumferentially on said fixed rim, inclined ribs upon one of said rims forming spiral threads extending diagonally across the face of said rim substantially at a pitch angle of from 13 to 16°, said ribs having substantially straight longitudinal inner faces arranged perpendicularly to the plane of the wheel, lugs upon the other of said rims having lateral surfaces for bearing and sliding contact engagement with said straight longitudinal inner faces of the inclined ribs, and means for moving the demountable rim circumferentially in one direction or the other on the fixed rim.

1,426,090. DEMOUNTABLE RIM. HOWARD NADIN MOODY, New Orleans, La. Filed Feb. 9, 1922. Serial No. 535,296. 9 Claims. (Cl. 301—17.)



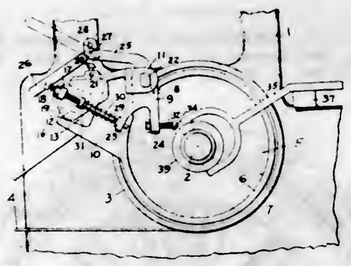
1. In a demountable rim, the combination of a fixed rim member, a demountable rim member movable laterally on and off the fixed rim member and also circumferentially on said fixed rim member, coacting binding elements on said rim members, engageable and disengageable on reverse relative circumferential movements of said rim members, whereby the demountable rim member is adapted to be held from or released for lateral motion on the fixed rim member, a wedge lug on one rim member, a pair of spaced abutment lugs on the other rim member arranged to come on opposite sides of said wedge lug, and a removable bendable-metal wedge key of greater length than the width of the rim members adapted to be driven transversely from one side of the wheel across the faces of said rim members between either side of said wedge lug and one or the other of said abutment lugs, said key having an end projecting at the other side of the wheel and adapted to be bent to form a stop for holding it from displacement.

1,426,091. MACHINE FOR FACING PROPELLER BLADES. FRANK EGON NEITZEL, San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., South Bethlehem, Pa., a Corporation of Delaware. Filed Oct. 16, 1919. Serial No. 330,978. 20 Claims. (Cl. 90—31.)



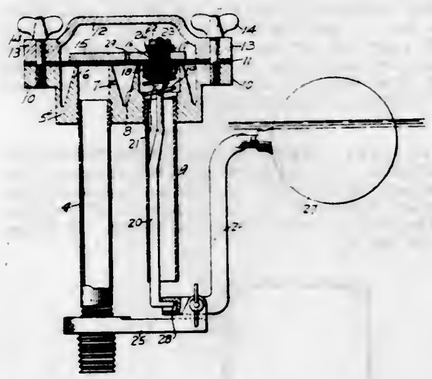
1. In a machine for facing propeller blades, an oscillatory support for the propeller, and means aligned by the propeller to face a blade of the propeller during the oscillation of said support.

1,426,092. MACHINE BRAKE. ABRAHAM NOVICK, New York, N. Y., assignor to F. L. Smithe Machine Co. Inc., New York, N. Y., a Corporation of New York. Filed Mar. 16, 1920. Serial No. 366,277. 7 Claims. (Cl. 188—105.)



1. In a braking mechanism, a control lever, a slidable collar operated by said lever, means actuated by said collar for setting said mechanism, and means for operating said mechanism independently of said control lever, adapted to be set into brake releasing position and arranged to drop automatically into its inoperative position on the manipulation of said control lever.

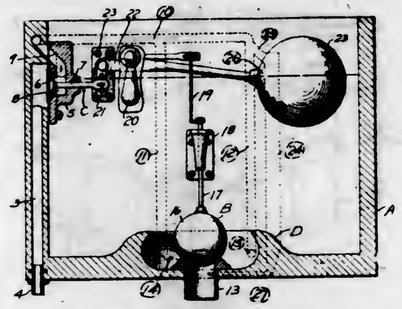
1,426,093. MUFFLER TOILET VALVE. JESSE C. OWENS, Los Angeles, Calif. Filed Jan. 31, 1921. Serial No. 441,125. 5 Claims. (Cl. 137—104.)



3. In a device of the class described, the combination of a chamber having a diaphragm dividing it into upper and lower compartments, said lower compartment having an intake for liquid opening thereinto and normally closed by said diaphragm and a discharge for liquid opening thereinto and normally closed by said diaphragm, said diaphragm having a relief port for affording communication between the upper compartment and said discharge, valve means normally closing said relief port, and means to initially actuate said valve means to open said relief port and after an interval lift said diaphragm to place said intake and discharge in communication.

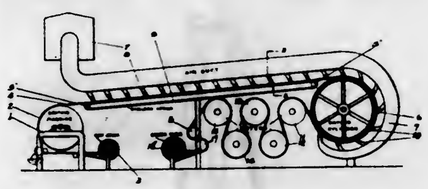
1,426,094. MUFFLER TOILET TANK. JESSE C. OWENS. Los Angeles, Calif. Filed May 16, 1921. Serial No. 469,756. 4 Claims. (Cl. 4—5.)

4. A flush tank for toilets comprising a reservoir having formed in the bottom thereof a circular filling basin, a conduit leading to said basin for directing supply water thereinto in a tangential direction, an intake valve actu-



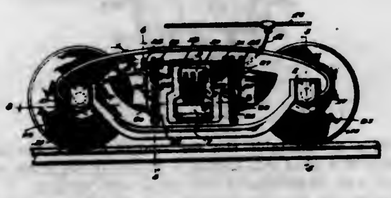
ated by a float controlling the flow of water through said conduit, a discharge port for said tank, and a flush valve for said discharge port.

1,426,095. DRIER FOR DRYING COATED PAPER. ALBERT H. PARKER, Otsego, Mich. Filed Oct. 18, 1920. Serial No. 417,807. 4 Claims. (Cl. 34—48.)



3. In a drier for coated paper, the combination of an endless apron for supporting the coated sheet, a heated drier cylinder disposed at the delivery end of said endless apron to receive the coated sheet, an air duct disposed in proximity to the said apron and encircling the said drying drum, and air nozzles from the said air duct directed against the coated surface of the sheet.

1,426,096. SAFETY APPLIANCE FOR RAILWAY-CAR TRUCKS. CARL L. PITTMAN, De Leon, Tex., assignor to The Pittman Company, De Leon, Tex., a trust estate consisting of J. B. Pool, C. L. Pittman, and R. F. B. Logan. Filed Dec. 28, 1921. Serial No. 525,390. 7 Claims. (Cl. 105—216.)



1. A safety device for railway car trucks comprising a unitary side frame, and a shoe or skid formed integrally therewith, said skid constituting a downward and lateral extension of the side frame overlying the track rail and having lateral marginal flanges and bifurcated ends to straddle the wheels.

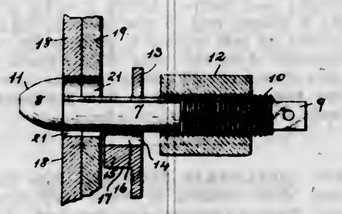
6. A safety device for railway car trucks comprising side frames having downwardly moving journal boxes, levers pivoted intermediate their ends to the side frames and extending beneath each journal box, vertically pivoted sliding members secured to the side frames, each member having a lug engaging the free end of an adjacent pivoted lever, air brake valves on the side frames, and a horizontal pivoted rod on each side frame, each rod having crank arms overlying the adjacent sliding members and an arm engaging the air valve.

1,426,097. FRONT AND LOCK ROD FOR SWITCHES. ERNEST K. POST, Collingswood, N. J. Filed Nov. 17, 1920. Serial No. 424,636. 14 Claims. (Cl. 246—452.)



1. A pair of switch rail points, a front rod therefor, comprising a strip extending transversely of the track and beyond the track at one side, having an end thereof turned parallel with the rail points and adapted to be connected thereto, an auxiliary strip connected with the main strip at an intermediate point, extending parallel therewith and bent parallel with the switch points for connection with the other point, and means for connecting the two strips.

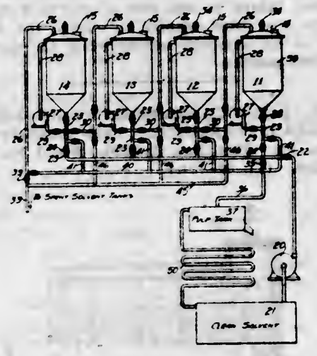
1,426,098. TEMPORARY FASTENING. EUGENE R. PRUITT, Baltimore, Md. Filed Feb. 14, 1920. Serial No. 358,693. 3 Claims. (Cl. 85—9.)



1. In a temporary fastening the combination with a bolt having a hook-head at one end thereof and provided with circumferential screw-threads adjacent to the other end, a portion of the bolt being threadless between the head and threaded end, said threadless portion having a smaller diameter than the diameter through the threaded portion and a nut having an interior threaded portion to engage the threaded portion of the bolt said interior threaded portion of the nut being of a greater diameter than the threadless portion of the bolt.

1,426,099. APPARATUS FOR WASHING INSOLUBLE POWDERS. PAUL W. PRUTZMAN, Los Angeles, Calif., assignor to General Petroleum Corporation, a Corporation of California. Filed Aug. 20, 1921. Serial No. 493,985. 15 Claims. (Cl. 23—31.)

1. In an apparatus for washing insoluble powdered substances, the combination of: a shell for containing a mass of powdered substance; means for circulating a solvent upward through said mass of powdered substance; and means for carrying off the overflow solvent from said shell.

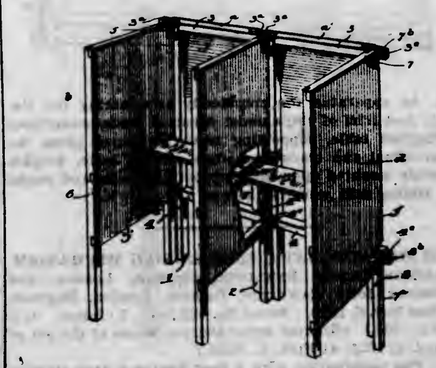


1,426,100. SNAP-FASTENER TOP. GEORGE F. PULLEN, Waterbury, Conn., assignor to Waterbury Fastener Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 8, 1922. Serial No. 542,013. 10 Claims. (Cl. 24—220.)



1. In a top member for a separable snap fastener, the combination with an exterior shell, of a cap-disc, a spreader, and a collet, said shell enclosing said cap-disc, spreader and collet, and engaging an outer vertical flange on said collet, said flange having means for preventing rotation of the shell relative thereto.

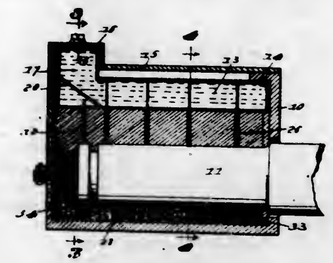
1,426,101. VOTING BOOTH. TRUMAN J. PURDY, Sunbury, Pa. Filed Jan. 20, 1921. Serial No. 438,710. 3 Claims. (Cl. 20—3.)



1. In a sectional system of voting booths composed of similar units, a unit comprising a back frame having

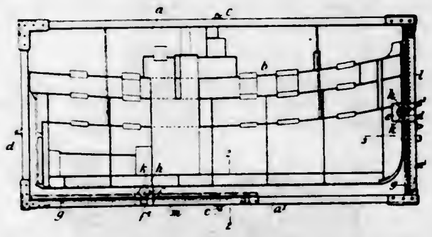
laterally projecting portions having notches in their rear faces at the one end of the same and notches in the forward faces at the other end of the same adapted to interlock with similar portions on adjacent sections, and a partition hinged to one side of the back frame and having its rear edge adapted to engage the projecting portions of an adjacent section when the partition is in unfolded position.

1,426,102. CAR JOURNAL BEARING AND LUBRICATING MEANS THEREFOR. FRED RADCLIFFE, Philadelphia, Pa. Filed Dec. 2, 1920. Serial No. 427,720. 4 Claims. (Cl. 64—24.)



1. A journal bearing having a box or casing, and a bearing block or brass surmounted by an oil fount or reservoir, said box or casing being provided at its inner end with an overhanging flange for engagement with the adjacent end of said fount or reservoir, and the block or brass being provided with downwardly divergent lateral centering wings having exterior impact ears.

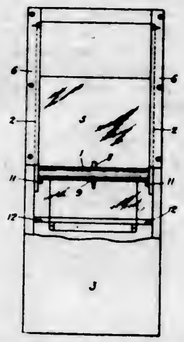
1,426,103. APPARATUS FOR GRAPHICALLY ASCERTAINING THE STABILITY AND TRIM OF SHIPS UNDER ASSUMED LOADS. SHIRLEY BROOKS RALSTON, Glasgow, Scotland. Filed Mar. 11, 1920. Serial No. 364,983. 3 Claims. (Cl. 73—151.)



1. An apparatus for graphically ascertaining the stability and trim of ships under assumed loads, comprising a diagram table, supporting means arranged along the longitudinal and transverse edges of said table, weights movably mounted upon said supporting means and means for sliding said weights thereon.

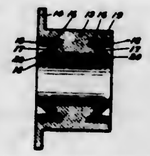
1,426,104. AUTOMATIC SASH-RAISING MECHANISM. ARTHUR DANIEL RAWLINGS, Clapham, London, and ERNEST JOHN RAWLINGS, Balham, London, England. Filed Nov. 6, 1920. Serial No. 422,344. 7 Claims. (Cl. 292—194.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. The combination with a door having a sash opening therein and a sash slidable vertically in said opening, of a pair of spring-controlled arms pivoted at their upper ends at opposite sides of said opening and provided with friction strips normally engaging said sash, and automatic sash-raising mechanism secured to the lower ends of said arms and movable in a horizontal plane



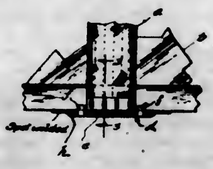
for swinging the arms on their pivots thereby to carry the friction strips out of contact with the sash and permit the same to be raised.

1,426,105. COMMUTATOR-SEGMENT MOUNTING. WALTER E. RICHTER, Toledo, Ohio, assignor to Electric Auto-Lite Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Aug. 8, 1917. Serial No. 185,082. 5 Claims. (Cl. 171—321.)



1. In a device of the class described, the combination of a supporting member; a plurality of segments mounted thereon; each segment having a notch in the end thereof; a locking ring on said member, engaging one side of each of said notches to position the segments, the inner edge of the ring being slightly spaced from the other side of each of said notches, and the outer edge of said ring being bent radially to form a support for the outer ends of the segments.

1,426,106. PULL-STRAP FIXTURE. PAUL RISSMANN, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed May 18, 1921. Serial No. 470,648. 4 Claims. (Cl. 296—48.)

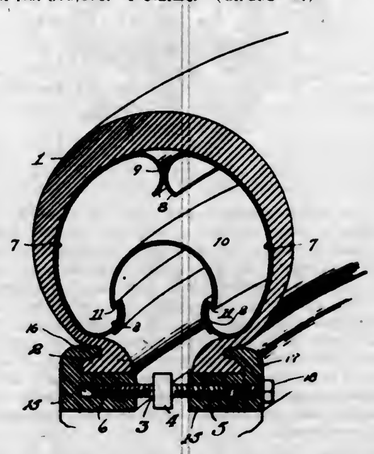


1. An attachment for securing pull straps to window sashes, having in combination, a loop provided with ears and adapted for attachment to the bottom of a window sash, and a pull strap fixture in the form of an angle plate and clamp having end extensions on one of the webs, said web adapted to engage between the loop and the bottom of the window sash and be removably secured therein by turning the said ears of the loop up to a right angular position to engage the said end extensions.

1,426,107. POLISHING COMPOSITION. WILLIAM ROTH, St. Louis, Mo., assignor of one-half to Edward F. Springmeyer, St. Louis, Mo. Filed Sept. 19, 1921. Serial No. 501,733. 1 Claim. (Cl. 134—24.)

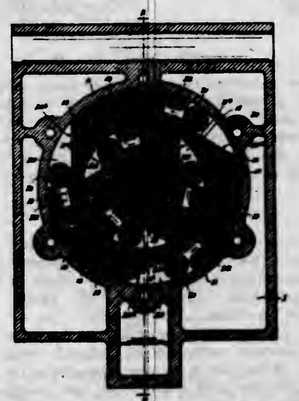
A composition of matter for polishing and cleaning furniture and the like, composed of about fifty per cent of turpentine, about twenty-five per cent of vinegar, about twenty-four per cent of crude oil, and about one per cent of powdered rotten stone.

1,426,108. RESILIENT TIRE. DANIEL M. ROTHENBERGER, Leesport, Pa., assignor of one-third to Ephraim P. Wanner and one-third to William M. Fryermuth, both of Reading, Pa. Filed Nov. 9, 1921. Serial No. 515,876. 4 Claims. (Cl. 152—8.)



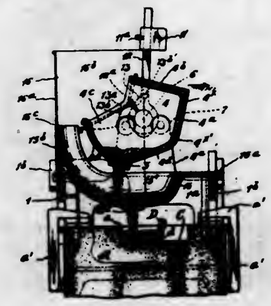
2. In a resilient tire, a hollow tread, tread engaging members, two opposed spring members located inside the tread in opposed relation, the outer and inner edges of said members being curved and the outer curved edges bearing against each other; an annular resilient member centrally located within the tread, said resilient member having a ledge on each side and adapted for engagement by the inner curved edges of the opposed spring members.

1,426,109. RATCHET DRIVE. CHARLES W. RUDOLPH and WILLIAM J. SCHLACKS, Chicago, Ill. Filed Apr. 1, 1920. Serial No. 370,517. 2 Claims. (Cl. 74—53.)



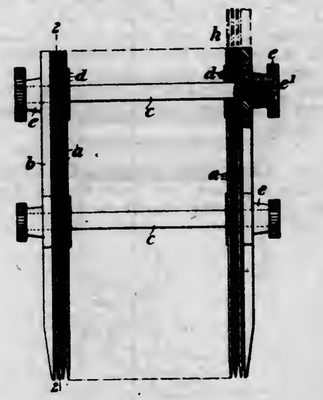
1. A frictional ratchet drive comprising an oscillatory hub provided with peripheral cam-actuating pockets and rollers therein, a ring flange surrounding said hub and the rollers thereof, and provided with peripheral cam-acting roller pockets and rollers therein, a roller runway surrounding said ring flange and the rollers thereof, the pockets and rollers of said hub and ring flange being arranged for frictional clutching actions in opposite directions, said ring flange having an extended portion at one side of said hub, a driving shaft extended through and connected to said hub and extended into and journaled in the said portion of said ring flange, and means at the other side of said hub for oscillating said driving shaft.

1,426,110. PROCESS OF AND APPARATUS FOR POURING METAL. DANIEL J. RYAN and LOUIS J. FELTES, Cleveland, Ohio. Filed Aug. 29, 1917. Serial No. 188,761. 60 Claims. (Cl. 22—79.)



1. In mechanism of the class described, the combination of a support, and a metal holder trunnioned on said support and adapted to be moved from a normal position to a discharging position, one side wall of said holder being formed with a discharge opening which is arranged above the level of the metal when the holder is in normal position but is moved to a position below such level when said holder is tilted, the upper portion of said side wall extending inwardly, whereby it operates to hold the metal when the holder is tilted to its discharging position.

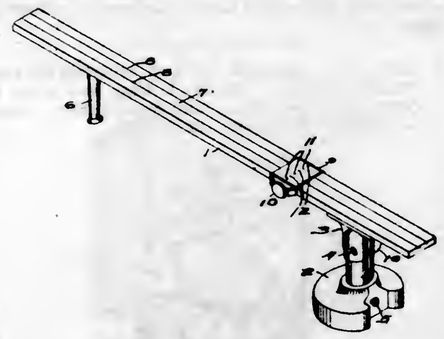
1,426,111. HAIR COMB. JOHN SACKER, Finsbury Park, London, England. Filed Sept. 13, 1920. Serial No. 409,878. 3 Claims. (Cl. 132—16.)



1. A hair comb constructed of non-flexible material, comprising teeth, provided with thickened portions at their ends, to space said teeth apart, means for securing

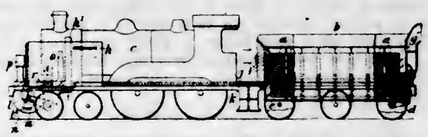
said upper ends together to form a handle, said handle being of a greater area than the portion comprising the teeth, to secure a firm grip by the hand of the user.

1,426,112. CHECKER BAR. JOHN H. SAMPLE, Toledo, Ohio. Filed Jan. 10, 1921. Serial No. 436,066. 5 Claims. (Cl. 33—125.)



2. In a checker bar a standard, a bar pivotally supported by the standard, a saddle supported on the bar and having holes extending through the saddle, and holes extending a short distance into the metal of the saddle.

1,426,113. CONDENSING SYSTEM FOR LOCOMOTIVES. CYRIL EUSTACE SAYER, Purley, England. Filed July 22, 1918. Serial No. 246,102. 2 Claims. (Cl. 261—92.)



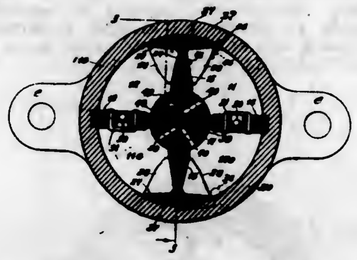
1. In a condensing system for locomotives, the combination with the condenser of a water cooler comprising a closed chamber the sides and ends of which are formed by the sides and ends of the tender, inlet and outlet openings in the said ends for the passage of air through the chamber and a cylindrical drum formed of many turns of sheet metal rotating with its lower part immersed in the water to be cooled and which water is contained in the lower part of the said chamber.

1,426,114. ARTIFICIAL INTERCHANGEABLE TOOTH. ABRAHAM SCHWARTZ and JOHN WIEDER, Boston, Mass. Filed Dec. 7, 1920. Serial No. 428,887. 6 Claims. (Cl. 32—9.)



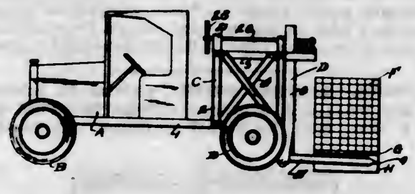
2. An artificial tooth comprising a detachable and interchangeable porcelain or like facing recessed at the upper portion of the inner side thereof with undercut rebates around the sides of said recess, and a metal back of boxed form bearing rim portions having an interlocking fit with said facing, and said back presenting a base of substantial dimension engaging a ledge of said facing.

1,426,115. SHOCK ABSORBER. ALBERT B. SHULTZ, Buffalo, N. Y. Filed Aug. 8, 1921. Serial No. 490,442. 7 Claims. (Cl. 188—89.)



1. A shock absorber comprising a pressure chamber having a curved peripheral wall and two flat side walls arranged at right angles to the axis of said curved wall, and a piston oscillating in said chamber and having a hub journaled concentrically with said peripheral wall, a wing extending outwardly from said hub to said peripheral wall and engaging its opposite longitudinal edges with said side walls, circumferential flanges projecting circumferentially from opposite sides of said wing and in engagement with said peripheral wall, and radial flanges projecting from opposite sides of said wing adjacent to its longitudinal edges and in engagement with said side walls.

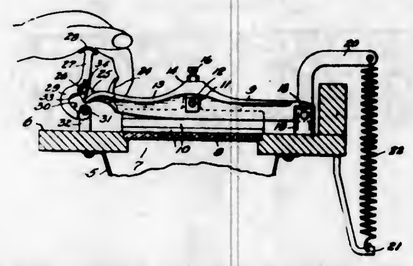
1,426,116. LOADING AND UNLOADING MACHINE. JOSEPH SIMONS, Los Angeles, Calif. Filed Apr. 29, 1920. Serial No. 377,517. 6 Claims. (Cl. 214—75.)



1. The combination with a vehicle, of an upright frame, an elevating means slidable along said frame and having a projecting portion arranged to engage beneath a load, said frame and elevating means having cooperating surfaces arranged to tilt said elevating means when at the bottom of said frame so as to lower the outer end of said load engaging portion of the elevating means.

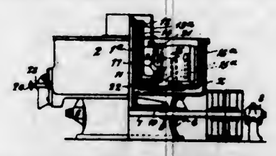
1,426,117. PHOTOGRAPHIC-PRINTING MACHINE. JULIAN H. SMITH, Seattle, Wash., assignor to Specialty Manufacturing Company, Seattle, Wash., a Corporation of Washington. Filed Dec. 13, 1920. Serial No. 430,134. 1 Claim. (Cl. 95—77.)

In a photographic printing machine, a cabinet, a platen provided with axially aligned studs projecting laterally therefrom, a presser comprising a rectangular frame enclosing said platen, the side members of said frame being provided with slots to receive the platen studs, said frame members being also provided with apertured bracket elements extending over the platen, screws adjustably engageable in said apertures and, extending into proximity of the platen, springs interposed between the respective bracket elements and the platen,



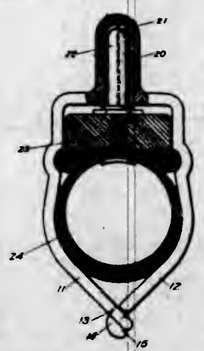
a catch provided on the cabinet, and means carried by the presser and engageable with said catch for releasably securing the platen under pressure upon the cabinet.

1,426,118. MACHINE FOR MIXING CHOCOLATE OR OTHER MATERIAL. ASBJORN SONSTHAGEN, Leytonstone, England. Filed Jan. 24, 1922. Serial No. 531,436. 28 Claims. (Cl. 259—107.)



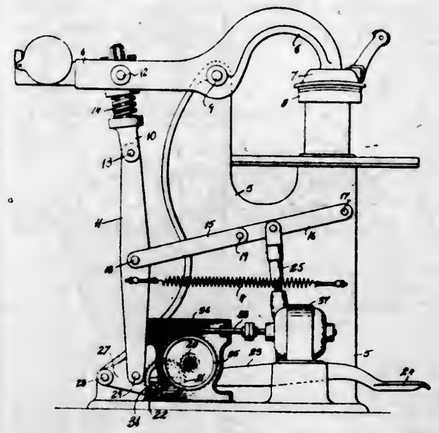
1. A machine for mixing chocolate or other material comprising a suitable pan, a body revolving in said pan, outer plates upon said body arranged adjacent the wall of the pan and designed to direct the material inwards towards the center thereof, so shaped and arranged as to impart thereto a turning over movement at different heights, other similar plates to direct the material outwards from the center of the pan said plates being so shaped and arranged as to cause the material to be downwardly directed towards the bottom of said pan, and backwardly outwardly curved means at the bottom of said pan whereby the effective mixing is secured.

1,426,119. AUTO THEFT SIGNAL. JOHN H. SOUTHARD, Glendale, Calif., assignor to Miller-Chapman Company, a Corporation of California. Filed July 14, 1919. Serial No. 310,820. 4 Claims. (Cl. 70—90.)



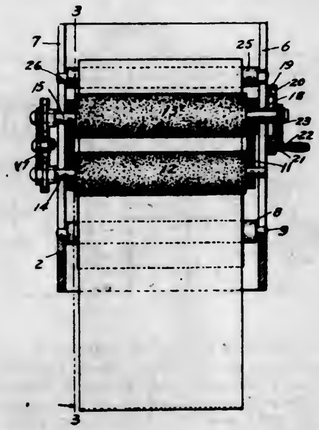
1. An auto theft signal comprising: two members fitting about the valve stem of a tire; a hook formed on one of said members and so shaped that said members can be readily disassociated from each other when said signal is in the open position, said members being locked together by said hook when said signal is in the closed position; and means for locking said members together at a point remote from said hook.

1,426,120. GARMENT PRESS. JAMES B. SPENCER and PETER EDUARD GELDHOF, Syracuse, N. Y., assignors, by mesne assignments, to United States Hoffman Machinery Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 14, 1920. Serial No. 416,936. 8 Claims. (Cl. 74—14.)



1. A pressing machine of the kind having co-operating press elements movable one in relation to the other, comprising a toggle linkage arranged to close the press by being straightened and open the press by being broken or collapsed, a second toggle adapted to straighten the first toggle, a lever arranged to operate the second toggle to close and open the press, a cam having connection with the first toggle to exert final maximum pressure on the press elements, and motor means to rotate the cam.

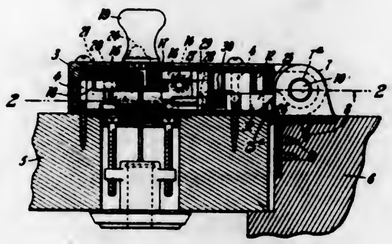
1,426,121. ROLLER-TOWEL CABINET. GEORGE A. STEINER, Salt Lake City, Utah, assignor, by mesne assignments, to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Nov. 15, 1918. Serial No. 262,658. 18 Claims. (Cl. 45—32.)



2. A towel cabinet having guide ways therein, a clean towel roll mounted in said guideways, a soiled towel roll

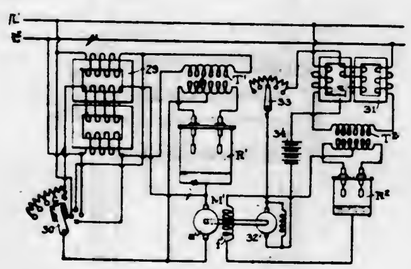
also mounted in said guideways, a frame interposed between said rolls and having freedom of vertical movement, feed rolls journaled in said frame and having a driving connection between them, one of said feed rolls engaging the clean towel and resting by gravity thereon, the other feed roll contacting with the soiled towel roll, revolution of said clean towel feed roll delivering the clean towel from one roll and synchronously winding the soiled towel on the other roll.

1,426,122. LOCK. LOUIE STERN, New York, N. Y., assignor to Stern & Welsbart, New York, N. Y., a Partnership composed of said Louie Stern and Benjamin Welsbart. Filed Apr. 30, 1921. Serial No. 465,912. 5 Claims. (Cl. 70—46.)



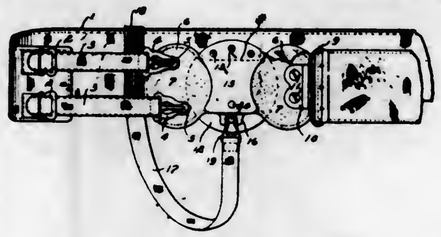
5. A lock including in combination a pair of opposed bolts each carried by a shank, means for guiding said shanks for parallel movement, spring means for urging said shanks relatively toward each other, hand actuated means for moving said shanks against their spring urging means, a latch between said shanks mounted for movement transversely to the direction of movement of said shanks, spring means for urging said latch in one direction, means on said latch for holding one of said shanks in retracted position, a keeper for receiving said bolts, and means on said latch for engagement with said keeper for moving said latch for releasing the shank held in retracted position by said latch.

1,426,123. MOTOR-CONTROL SYSTEM. ERWIN R. STOEKLE, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 24, 1919. Serial No. 284,665. 11 Claims. (Cl. 171—242.)



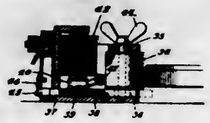
1. In a system of control the combination with a direct current motor of an alternating current supply source, rectifying means through which current is supplied to said motor from said source, and means for varying the impedance of said source in accordance with speed variations of said motor to maintain the speed of said motor substantially constant.

1,426,124. TRUSS. CASSIUS M. THOMAS, St. Louis, Mo. Filed May 11, 1921. Serial No. 468,645. 1 Claim. (Cl. 128—114.)



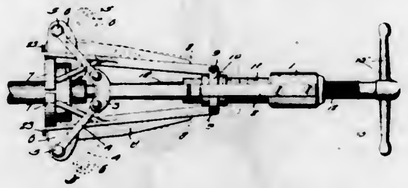
A truss comprising a suitable body-embracing member, a belt-plate having a reduced neck intermediate of its ends, the latter being detachably connected to said body-embracing member, a hard pad-base, a flat spring carried by the latter for detachably connecting said pad base to the reduced neck of said belt-plate, and a pad detachably carried by said pad-base.

1,426,125. STOP FOR PHONOGRAPHS. HERMAN WALTER TROEGER, Detroit, Mich. Filed June 17, 1919. Serial No. 304,855. Renewed Jan. 10, 1922. Serial No. 528,135. 2 Claims. (Cl. 192—116.)



2. In combination with a phonograph, of a cam member adapted to engage the turn table to stop the same, a sliding member connected with the cam member for rotating the same, spring means for moving said sliding member, magnetic means for holding the sliding member in retracted position, a circuit including said magnetic means and means for completing the circuit when the reproducer reaches the end of the record.

1,426,126. GENERATOR AND MAGNETO BEARING PULLER. HENRY N. TUGGLE, Clay Center, Kans. Filed Aug. 11, 1920. Serial No. 402,865. 4 Claims. (Cl. 29—85.)



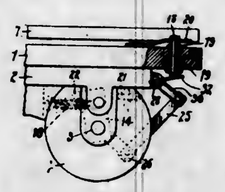
1. A tool of the class described, comprising a main threaded shaft, a sleeve traveling thereon, arms secured to said sleeve, an annular collar sliding on said sleeve, levers pivotally attached to said collar, toggle-joint-heads connected to said arms, toggle-levers attached to said first named levers and pivotally secured to said heads, a shaft connecting each pair of said toggle-joints, a chuck, jaws for the reception of said chuck therebetween, said jaws being secured to said first named levers and attached to said arms by means of said toggle-levers, and means for actuating said jaws for the purpose of gripping said chuck.

1,426,127. RATCHET WRENCH. WALTER I. TUTTLE, Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass., a Corporation of Rhode Island. Filed Apr. 23, 1920. Serial No. 375,935. 5 Claims. (Cl. 81—60.)



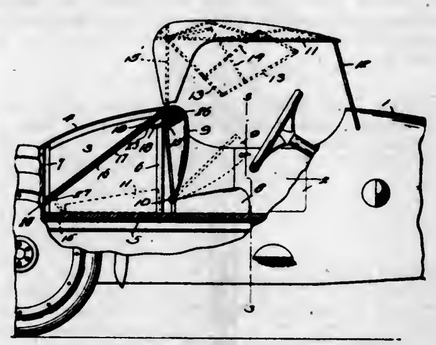
1. In construction for ratchet wrenches and the like, in combination, means comprising a ratchet adapted to engage and turn a nut, a mounting for said ratchet through which said ratchet is turned and provided with a substantially round recess directed toward said ratchet, a round pawl fitting said recess, and a spring within said recess urging said pawl toward said ratchet to lock said ratchet against relative turning in one direction, said pawl being provided at its engaging end with a pair of flattened surfaces angularly disposed with respect one to another and adapted to fit between the teeth of said ratchet and with a flattened lateral bearing portion adapted to hold said pawl against rotation in its recess.

1,426,128. PHONOGRAPH. HARRY S. UBER, Philadelphia, Pa. Filed Sept. 4, 1920. Serial No. 408,342. 3 Claims. (Cl. 185—43.)



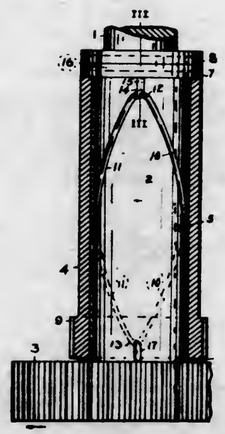
3. A phonograph having in combination a motor-spring, a winding-shaft for said motor-spring, a pawl to hold the winding-shaft against unwinding movement, a movable member upon which the pawl is fulcrumed, a spring to move the movable member against the action of the motor-spring when the latter is partially run down, a connecting rod pivotally attached at one end to the movable member, a rock-shaft actuated by the connecting rod, an arm upon said rock-shaft, a pin actuated by the said arm and a control lever for starting and stopping the phonograph adapted to be engaged by said pin and held against starting movement when the said movable member has been shifted against the reduced tension of the motor-spring.

1,426,129. DISAPPEARING AUTOMOBILE TOP. ANTHONY C. VELO, New York, N. Y., assignor of one-half to Frederick Trinca, West New York, N. J. Filed June 25, 1920. Serial No. 391,597. 8 Claims. (Cl. 296—116.)



1. In a disappearing top for automobiles, the combination of an automobile body having a seat compartment and a storage compartment, said storage compartment being provided with a forward, vertical entrance-way facing said seat compartment, a seat within the seat compartment having a hinged back movable forwardly and rearwardly to open and close the said entrance-way to said storage compartment, downwardly and rearwardly inclined guides within the storage compartment, pivot members slidably engaging said guides, a folding top including a frame having arms pivotally engaging said pivot members and slidable therewith along said inclined guides, whereby the folded top may be swung downwardly through the entranceway into said compartment and caused to travel along said guides so as to be received in said storage compartment and rest upon the floor thereof, and means coacting with said pivot members to secure the same against sliding movement upon the guides and to secure the top against pivotal motion on said pivot members.
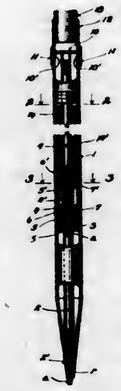
1,426,130. BEARING. LORENZO E. WAITE, Toledo, Ohio, assignor to The Toledo Milling Machine Company, Toledo, Ohio, a Corporation of Delaware. Filed Oct. 18, 1920. Serial No. 417,744. 5 Claims. (Cl. 64—56.)



1. A pair of co-operating vertical bearing surfaces, one rotatable on the other, means rotating them in the same

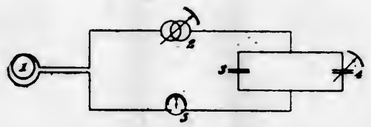
direction and at different speeds, a single spiral groove on one of the surfaces, the said groove beginning near the top of the bearing and running thence around the bearing surface 180° to a point slightly above the lower end of the bearing, and thence running around the bearing surface 180° to the point of beginning, the groove making a sharp angle at the lower end of the bearing, and means for feeding lubricant to the said point of beginning.

1,426,131. MAGAZINE PENCIL. JAMES H. WARING, Milwaukee, Wis., assignor of one-half to Paul F. Schryer, Wauwatosa, Wis. Filed June 17, 1921. Serial No. 478,256. 1 Claim. (Cl. 120—17.)



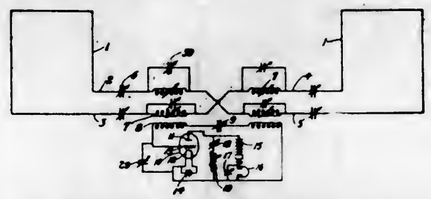
In a magazine pencil, the combination of a hollow plunger, means for reciprocating said plunger, a housing, a clutch collar rigidly secured to said plunger and reciprocable in said housing at one end thereof, a retaining ring secured to said housing at the other end, a second clutch collar slidably positioned in said housing adjacent said retaining ring, a plurality of balls interposed between said second collar and said retaining ring, a second retaining ring, a spring interposed between said second clutch collar and second retaining ring, a plurality of balls interposed between said second retaining ring and first mentioned clutch collar, and a mandrel extending through said hollow plunger, said first mentioned clutch collar, said second retaining ring, said first mentioned retaining ring and adapted to be gripped by said balls.

1,426,132. ELECTRICAL MEASURING INSTRUMENT. FRANK N. WATERMAN, Summit, N. J., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Mar. 23, 1917. Serial No. 156,980. 9 Claims. (Cl. 250—39.)



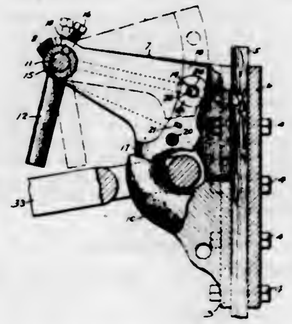
1. In a measuring instrument for high frequency oscillations, an oscillatory circuit including a coupling coil, and two means for varying the frequency of said circuit, one of said means having a greater range than the other and the means of lesser range having a scale graduated in terms of decrement.

1,426,133. APPARATUS FOR PREVENTING STATIC INTERFERENCE IN RADIOSIGNALING. ROY A. WEAGANT, New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Dec. 12, 1917. Serial No. 206,723. 17 Claims. (Cl. 250—20.)



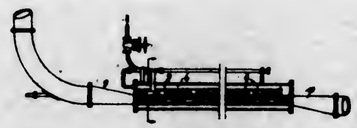
17. At a receiving station, an antennae system extending horizontally an appreciable fraction of a wave length comprising directive portions directively arranged and conductive connections between said portions whereby electromotive forces due to signal waves received in a given order are combined, and electromotive forces due to disturbances simultaneously received are opposed therein.

1,426,134. TRAILER COUPLING. TOBIAS WEBER, Los Angeles, Calif. Filed Mar. 7, 1922. Serial No. 541,796. 3 Claims. (Cl. 280—33.15.)



1. In a coupling the combination with a hook and a pivotal guard for closing the mouth of said hook, of locking means to positively hold said guard in a predetermined position relative to said hook, said locking means comprising a latch, means to manually set said latch in unlocking position, and means operated by opening of the guard to release said latch from unlocking position.

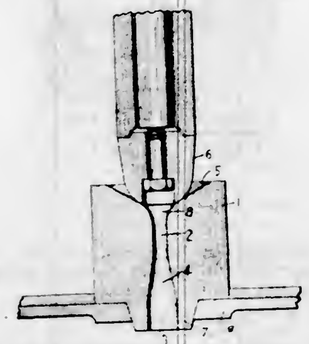
1,426,135. APPARATUS FOR FLUSHING CONDUITS. WILHELM WEBER, Wiesbaden, Germany, assignor to the Firm Gewerkschaft Hausbach II, Wiesbaden, Germany. Filed Jan. 22, 1921. Serial No. 439,273. 2 Claims. (Cl. 302—30.)



2. An apparatus to be inserted in flushing conduits for refuse from mining and designed to increase the speed of flow and to help to get over long horizontal or inclined parts of the tubular closed conduit comprising

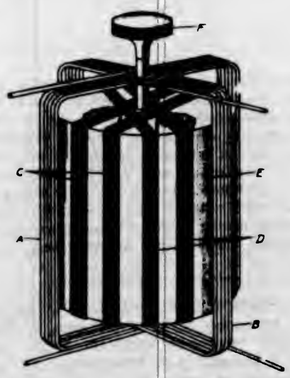
in combination with the flushing conduit, with a tubular body inserted in said flushing conduit and with a source of fluid under pressure, a chamber mounted upon said tubular body designed to receive the fluid under pressure and radial channels arranged in the inner surface of the wall of the tubular body whose orifices stand tangentially and obliquely to the flow of material in said tubular body and designed to connect said chamber with the source of fluid under pressure, substantially as described and shown and for the purpose set forth.

1,426,136. NOZZLE. WILLIAM H. WILLS, Jr., Charlerol, Pa. Filed Apr. 18, 1922. Serial No. 554,935. 6 Claims. (Cl. 22—85.)



1. A nozzle for pouring molten metal and the like, comprising a body portion having a conduit, the upper and lower portions of which are of different diameters and are connected one to the other by an intermediate portion, the walls of which diverge downwardly and are arranged at an angle to the walls of both the upper and lower portions of said conduit.

1,426,137. RADIOGONIOMETER. GEORGE MAURICE WRIGHT, Chesterfield, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Apr. 16, 1921. Serial No. 461,940. 4 Claims. (Cl. 250—11.)



4. A radiogoniometer comprising two stationary coils in planes at substantially right angles and a rotatable search coil comprising two windings in planes at an acute angle with each other.

1,426,138. PISTON. EDMUND E. ALLYNE, Cleveland, Ohio, assignor, by mesne assignments, to Aluminum Manufactures, Incorporated, Cleveland, Ohio, a Corporation of Delaware. Filed Jan. 9, 1919. Serial No. 270,318. 2 Claims. (Cl. 74—108.)



1 A piston for internal combustion engines composed of aluminum alloy and having on that part exposed to the combustion gases means for protecting the aluminum alloy from the corrosive action of said gases, said means comprising a coating of iron intimately united to the aluminum alloy.

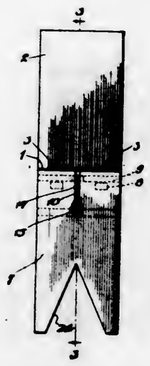
1,426,139. HOISTING MACHINE. CHARLES W. ANDERSON, Brooklyn, N. Y. Filed June 24, 1920. Serial No. 391,405. 1 Claim. (Cl. 254—187.)

The combination with a gas engine of standard type comprising a drive shaft, an explosive cylinder for driving said shaft, a pinion fixed upon said drive shaft, and a pair of fly wheels also fixed upon said drive shaft spaced apart at opposite sides of the engine, of a hoisting drum positioned partly between said fly wheels, a carrying shaft for said drum arranged substantially parallel to said drive shaft, a pair of bearing standards for said carrying shaft, a common base from which said engine and said standards rise, control levers for the drum closely adjacent the engine, and a drive gear for said drum fixed to said carrying shaft being positioned partly between said fly wheels and directly intermeshing with said pinion.

1,426,140. FOLDING CHAIR. WILLIAM B. ANSELMS, Norfolk, Va. Filed Apr. 5, 1922. Serial No. 549,746. 1 Claim. (Cl. 155—148.)

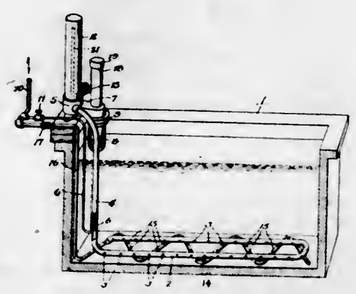
A folding chair having a seat, a front leg movably secured to the seat, a rear leg movably secured to the seat, brace strips movably secured to the seat between the legs, and means on each leg to interlock with a brace strip to hold the leg in operative position, the front leg

being formed with a slot extending above said means to permit movement of the brace strip in the folding opera-



tion, the rear leg being formd with a slot throughout the length thereof to receive both brace strips in the folding operation.

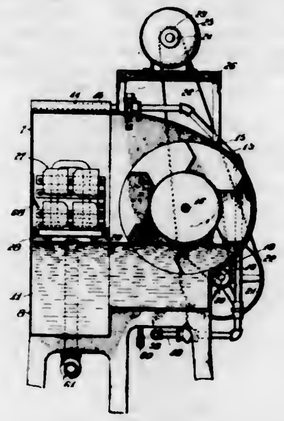
1,426,141. PROCESS AND APPARATUS FOR ELECTROPLATING. WILLIAM E. BELKE, Chicago, Ill. Filed Mar. 15, 1922. Serial No. 543,889. 14 Claims. (Cl. 204—1.)



1. In a process of electroplating, the circulation of the electroplating solution from the body thereof to a point above the body of the solution and the filtering of the solution thus drawn off before it is discharged on to the top of the body of said solution.

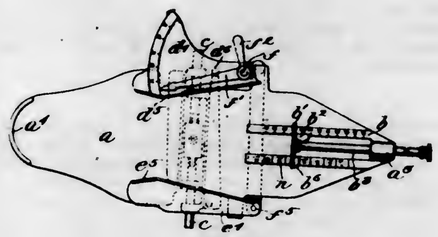
1,426,142. WASHING MACHINE. GEORGE S. BLAKESLEE, Chicago, Ill. Filed Oct. 5, 1918. Serial No. 257,015. 6 Claims. (Cl. 141—9.)

1. A washing machine comprising a tank, means for supporting the articles to be washed while they are moved over the water therein, means for throwing water from said tank upon the articles, showering means for discharging water upon said articles after they pass



beyond said water-throwing means, and means for deflecting water delivered by said showering means laterally against said articles.

1,426,143. DEVICE FOR MEASURING FEET. ELMER J. BLISS, Boston, Mass. Filed Aug. 7, 1918. Serial No. 248,717. 14 Claims. (Cl. 33—3.)

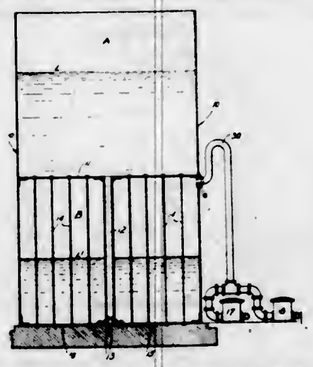


1. A device for measuring feet embracing in its construction a foot supporting base provided with heel-positioning means combined with a pair of side-gauging members arranged on opposite sides of the ball portion of the base each of which is capable of movement independently of the other and a width-indicating device operatively interconnected with both said side members to indicate the width size of shoe for the foot being measured according to the width of the space between said gaging members, substantially as described.

1,426,144. PRODUCTION OF CARBON. WALTER E. F. BRADLEY, Piermont, N. Y. Filed Sept. 4, 1918. Serial No. 252,586. Renewed June 15, 1922. Serial No. 568,584. 6 Claims. (Cl. 134—60.)

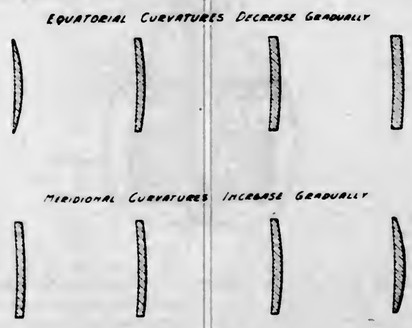
3. The method of producing carbon, which comprises passing a hydrocarbon gas into contact with iron oxide at a temperature in the neighborhood of 800° C. to 1,000° C. with exclusion of air, cooling the resulting mixture of iron oxide and carbon out of contact with air, and separating the carbon from the iron oxide.

1,426,145. PRESSURE-GAS HOLDER. ARTHUR F. BAIDOE, Los Angeles, Calif. Filed Apr. 21, 1921. Serial No. 463,245. 2 Claims. (Cl. 48—174.)



1. A gas holder, embodying an upright shell, a horizontal partition across its central portion forming an upper water chamber and a lower gas chamber, means to admit gas to the lower chamber, and to withdraw gas from the upper part of the lower chamber under suitable pressures, an upright pipe in the lower chamber connected with the bottom and with the partition to form a stay connection between them and to form a support for the partition, and other stays extending between the bottom and partition to stay them substantially over their entire surfaces; the pipe having communication at its upper end with the upper water chamber and having communication at its lower end with the lower part of the lower gas chamber.

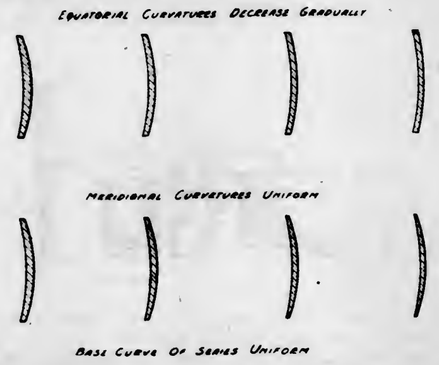
1,426,146. TORIC-LENS SERIES AND PROCESS OF MAKING SAME. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind., a Corporation. Filed Nov. 12, 1920. Serial No. 423,669. 5 Claims. (Cl. 88—54.)



1. A toric lens series of varying thickness having substantially the same power and having a constant base curve on the concave sides thereof and convex toric surfaces on the convex sides with their curvatures in one principal meridian varying according to the thickness of the lenses.

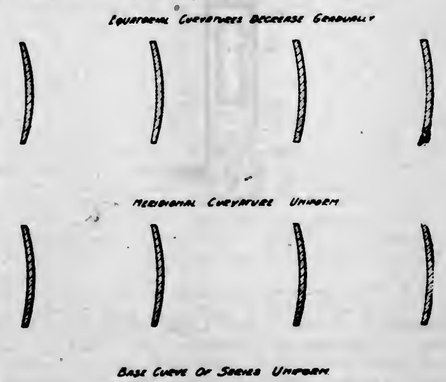
1,426,147. TORIC-LENS SERIES AND PROCESS OF MAKING SAME. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind., a Corporation. Filed Nov. 26, 1920. Serial No. 426,562. 8 Claims. (Cl. 88—54.)

1. A toric lens series having a constant base curve on the concave sides thereof and toric surfaces on the convex sides thereof with one curvature thereof varying and the other curvature thereof being constant and the lenses having substantially the same power in the constant toric curvature.



7. The process of making a toric lens series, which process consists in first grinding the concave side thereof with a constant curvature, mounting the same upon spotting wheels of varying diameters, and applying a grinding element to the exterior surfaces of the lenses for giving them a constant meridional curvature, whereby the equatorial curvatures of the lenses will vary and the lenses will have substantially the same power in the meridional curvature.

1,426,148. TORIC-LENS SERIES AND PROCESS OF MAKING THE SAME. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind., a Corporation. Filed Dec. 6, 1920. Serial No. 428,759. 5 Claims. (Cl. 88—54.)

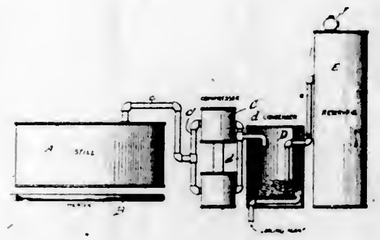


1. A toric lens series having a constant base curve on the concave sides thereof and toric surfaces on the convex sides thereof with a constant meridional curvature and with varying equatorial curvatures, the thickness of said lenses at the central portions and the lens power in the meridional curvature thereof being substantially constant.

1,426,149. PROCESS OF PRODUCING LIGHT HYDROCARBONS. CHARLES R. BURKE, Pittsburgh, Pa., assignor to Lulu P. Burke, Pittsburgh, Pa. Filed Jan. 16, 1912. Serial No. 671,500. 17 Claims. (Cl. 196—27.)

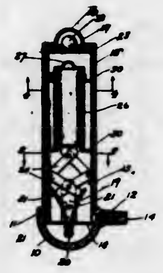
4. The process of producing light hydrocarbons from heavy hydrocarbon oil, which consists in distilling such

heavy hydrocarbon oil, then compressing the resultant vapors and then condensing same, the specific gravity and character of the resultant product being determined by the pressure used in compressing the distilled vapors.



14. The herein described process for producing a condensate of a predetermined specific gravity and character from a material producing vapors of varying specific gravity, which consists in vaporizing said material, then subjecting the vapors to a pressure sufficient to heat and compress the same to the temperature and pressure of conversion.

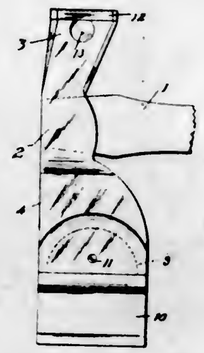
1,426,150. RADIATOR VALVE. JOSEPH CARMEL, New York, N. Y., assignor to Samuel Orenbuch, New York, N. Y. Filed Jan. 7, 1922. Serial No. 527,683. 3 Claims. (Cl. 236—66.)



1. A valve comprising a casing, an outlet in the upper end of said casing, a cap having vents therein surrounding said outlet, a light-weight sphere lying within said cap and adapted normally to close said outlet, an inlet near the bottom of said casing, a piston slidably mounted in said casing and having a plurality of horizontal radiating fingers separating said piston from the walls of said casing to allow the free passage of fluid past the same, a pair of thermostatic blades bound together at one end in the form of an erect V and mounted in the bottom of said casing and adapted to be actuated by heat to close toward each other, and a lazy tongs having its upper extremity in contact with said piston and its lower extremity in contact with said blades.

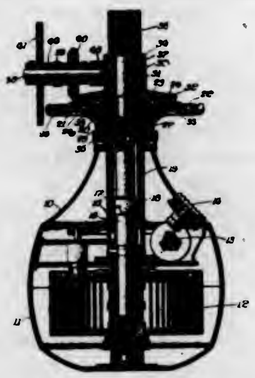
1,426,151. LATHER'S HATCHET. CHARLES S. CASON, Oakland, Calif. Filed May 27, 1920. Serial No. 384,569. 1 Claim. (Cl. 145—3.)

A lather's hatchet comprising a head, a handle secured thereto, said head being formed into a blade and having a semi-circular pocket, a hardened blade having a shank adapted to fit said semi-circular pocket with



shoulders bearing on the hatchet blade entirely around the pocket, and a pin for securing the blade in place in said pocket.

1,426,152. ROTARY RAZOR SHARPENER. CAP B. COLLINS, Oak Park, Ill., assignor to Collins Safety Razors, Chicago, Ill., a Common Law Business Trust. Filed June 7, 1919. Serial No. 302,476. 3 Claims. (Cl. 51—89.)

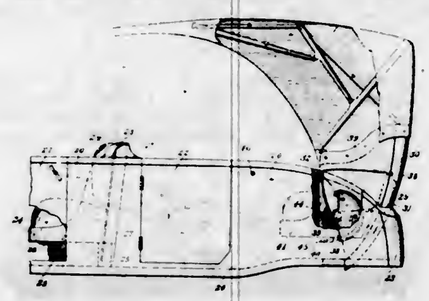


2. A stropping attachment for razors comprising in combination a pair of stropping elements, means to revolve said elements, and means to detachably secure said attachment to a razor having blade-rotating means with said element revolving means operatively connected to said blade rotating means and with the stropping elements engaging the opposite sides of the edge of the blade, whereby the blade-rotating means actuates the element revolving means to strop the blade on both sides of its edge simultaneously during the rotation of the blade.

1,426,153. CONVERTIBLE VEHICLE BODY. BAZEL E. CARRM, New York, N. Y. Filed Feb. 26, 1918. Serial No. 219,236. 3 Claims. (Cl. 296—66.)

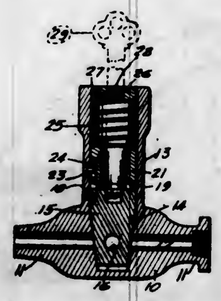
1. A convertible vehicle body comprising a fixed main section having a front compartment, a seat in said compartment, a deck member pivotally supported in the rear of said front compartment, a rear seat member

pivotally secured intermediate its seat and back to said pivotally supported member; said rear seat member, in one of its positions constituting a continuation of said pivotally supported deck member, and a member pivotally



secured adjacent to the upper end of said front seat, serving jointly with said rear seat member and the deck member first named to form a complete enclosure for the portion of said fixed main section to the rear of said front seat, substantially as specified.

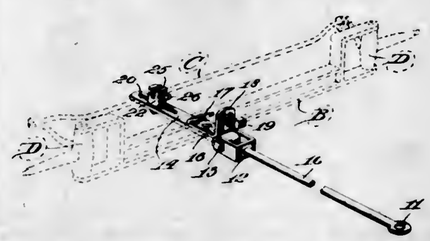
1,426,154. GASOLINE-LINE LOCK. DANIEL R. COX and DAVID A. KINNIE, Pasadena, Calif. Filed June 27, 1921. Serial No. 480,603. 5 Claims. (Cl. 251—6.)



1. A gasoline line lock comprising a substantially tubular member adapted to be located in the gasoline line, a tapered valve plug arranged for rotation within said tubular member and provided with a port that is adapted to coincide with the opening through said tubular member, spring pressed means for maintaining the valve plug in position within said tubular member, a pair of lugs formed on top of the valve plug, there being a series of radially disposed recesses formed in the under side of said spring pressed means, which recesses are adapted to receive said lugs, and means for rotating said valve plug.

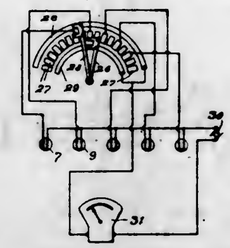
1,426,155. AUTOMOBILE TOWING BAR. BART E. DE VOL and JESSE R. MONCRIEF, Santa Ana, Calif., assignors to Universal Manufacturing Company, Santa Ana, Calif., a Corporation of California. Filed Dec. 22, 1920. Serial No. 432,610. 1 Claim. (Cl. 280—33.5.)

An automobile towing bar comprising a main bar having an attachment means at its forward end, a U-shaped yoke secured to the rear end of the bar and having its arms extending backwardly in horizontal planes, a pin extending through the rear ends of the yoke arms, a plate fitting between the yoke arms and having a bearing through which the pin extends, a bracket mounted upon the plate near its forward end and having a horizontally disposed base plate, one end of which terminates in a rebent hook and the other end of which extends vertically upwardly to form a bearing, a bolt mounted in the bearing, a lock nut upon the bolt, there being a longitudinally extending slot vertically through the rear end of the



plate, a stud arranged to slide freely in the slot, a U-shaped block extending upwardly from the stud, and a set screw in the U-shaped block so that an axle may be placed in the bracket and held in place by the bolt and lock nut, and a steering gear rod placed in the U-shaped block and held in place by the set screw.

1,426,156. DISPLAY STAND. THOMAS DINSEN and JOHN J. KRICKER, New York, N. Y. Filed Nov. 23, 1920. Serial No. 426,097. 13 Claims. (Cl. 211—24.)



11. In combination, a display stand, a plurality of electrical devices mounted thereon in fixed position, a plurality of contact members selectively connected to said devices, terminal members adapted to be connected to a source of current and a plurality of contact devices for co-operating with said contact members to selectively connect any one or any two thereof with said terminal members.

1,426,157. WHEEL STRUCTURE. ETHAN I. DODDS, Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Dec. 13, 1920. Serial No. 430,272. 8 Claims. (Cl. 301—66.)



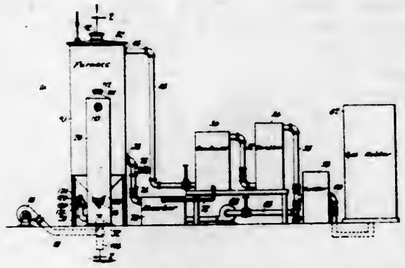
1. A sheet metal wheel body, comprising hub portions each having one-half of a series of tubular spokes integral therewith, the outer ends of the respective halves of each tubular spoke being integral with each other

1,426,158. WHEEL STRUCTURE. ETHAN I. DODDS, Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Dec. 13, 1920. Serial No. 430,273. 3 Claims. (Cl. 301—66.)



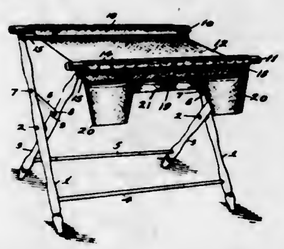
1. A sheet metal wheel body made in a single piece and comprising a hub member and radial spoke strips projecting therefrom and bent to provide free members projecting toward the axis of the hub member.

1,426,159. PROCESS OF PRODUCING COMBUSTIBLE GAS AND FOR CARBONIZING COAL. HENRY L. DOHERTY, New York, N. Y. Filed Sept. 7, 1918. Serial No. 253,045. 20 Claims. (Cl. 48—202.)



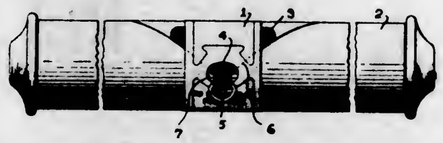
1. A process of producing combustible gas comprising, supporting a column of fuel in a shaft furnace, intermittently blasting a combustion-supporting gas transversely through a mid portion of said column to produce a mid zone of sufficiently high temperature to decompose steam, and circulating steam upwardly through said column between said blasting operations.

1,426,160. INFANT'S DRESSING STAND. WILBUR B. DRIVER, East Orange, N. J., assignor to New York Bath Manufacturing Co., a Corporation of New York. Filed Mar. 11, 1920. Serial No. 364,908. 3 Claims. (Cl. 45—11.)



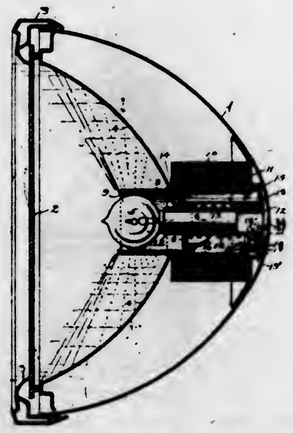
3. A dressing stand for infants, comprising a folding frame including opposed pairs of pivotally connected legs, a latch associated with each pair of legs for releasably holding the same extended, opposed supporting bars connected to the upper portions of the opposite legs, stretcher rods located slightly below the supporting bars and connected with the opposite legs and a fabric top secured to the bars and about the rods so that the rods will hold the apron relatively taut and provide opposed ledges substantially as described and for the purposes set forth.

1,426,161. MUSIC-ROLL SEAL. EDWIN S. DWELLY, East Orange, N. J., assignor to American Piano Company, New York, N. Y., a Corporation of New Jersey. Filed July 1, 1921. Serial No. 481,922. 5 Claims. (Cl. 206—53.)



1. The combination with a music roll having a reinforced end presenting a tab and a relatively stiff edge adjacent thereto, of a label overlying said edge adjacent said tab to hold said end in rolled relation and adapted to be torn thereby when the tab is pulled outwardly.

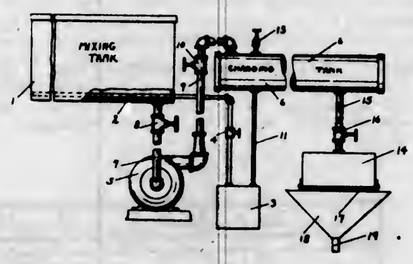
1,426,162. LAMP DIMMER. CHARLES W. EISELE, Flint, Mich. Filed Oct. 18. 1920. Serial No. 417,776. 15 Claims. (Cl. 240—45.)



1. A lamp construction wherein, an illuminating element and a shield are relatively movable in relation with each other including, a spring tending to relatively move one of said members in one direction, and electromagnet adapted to relatively move said spring actuated member in the opposite direction, characterized by a pivoted detent member, having an operating arm extending into the path of travel of the movable member, and operatively engaged thereby to positively actuate the detent to insure locking engagement thereof, said operating arm being subject to magnetic influence upon a subsequent impulse through said electro magnet to effect a reverse oscillation of the detent and release of the locked element.

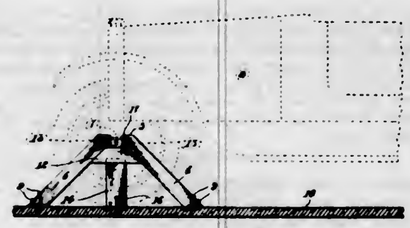
4. In a lamp, an illuminating element, a support therefor, and a shield for the illuminating member, said support and shield being relatively movable, a solenoid of which the movable member forms the core, a spring against the tension of which the solenoid core is attracted to relatively adjust said shield and illuminating element and means for intermittently energising said solenoid.

1,426,163. INSULATING MATERIAL AND METHOD OF MANUFACTURING THE SAME. FRANK C. EMRICK, Kalamazoo, Mich. Filed Feb. 17, 1921. Serial No. 445,029. 6 Claims. (Cl. 154—28.)



1. The method of manufacturing insulating material from mineral wool consisting of agitating the mineral wool in water containing laundry starch by means of an air blast, felting the wool and such starch containing water, subjecting to a high pressure and discharging while under such pressure upon a screen, pressing, and drying.

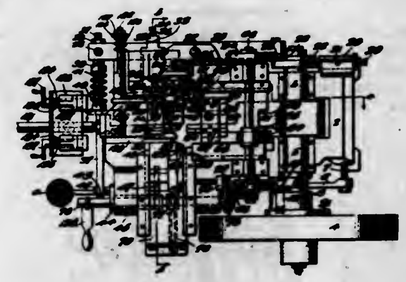
1,426,164. FLOOR LOADING BUCK. EDWARD S. EVANS, Detroit, Mich. Filed Sept. 15, 1921. Serial No. 500,829. 5 Claims. (Cl. 188—32.)



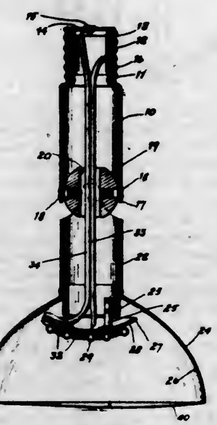
1. A floor loading buck for holding an automobile against undue forward or backward movement when being shipped in a freight car comprising a stirrup adapted to receive an axle of the automobile, means to support said stirrup from the floor of the freight car in a position to engage said axle, said supporting means being adapted to be secured to said floor, and means carried by the stirrup in position to engage opposite sides of the axle to yieldingly allow limited forward or backward shifting of the automobile held thereby.

1,426,165. MACHINE FOR MAKING SPRING EYES. WILLIAM EVANS, Philadelphia, Pa., assignor to John Evans' Sons, Philadelphia, Pa., a Firm composed of William Evans, Robert Evans, and John H. Evans. Filed July 1, 1921. Serial No. 481,774. 10 Claims. (Cl. 29—33.)

1. In an eye-making machine, the combination of the following instrumentalities for forming a completed eye on the end of a blank, namely:—means for imparting a half turn to the end of a blank,—means for cutting a scarf on the half-turned end of said blank,—means for effecting the ultimate and complete bending of the partly bent and scarfed end,—and means which operate in continuing advance with the foregoing means, for conjointly with said means imparting a true cylindric interior to the eye during the period of its ultimate bending.

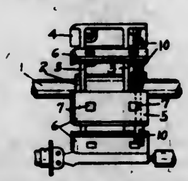


1,426,166. ELECTRIC HEATER. TOBIAS M. FEDER, Brooklyn, N. Y. Filed Dec. 7, 1921. Serial No. 520,529. 5 Claims. (Cl. 219—34.)



3. An electric heating device comprising upper and lower shell members, a ball pivotally suspended between ears of the upper shell member, said lower member having similar ears pivotally attached to the said ball at right angles to the upper shell member, a parabolic reflector secured to the lower shell member and adapted to reflect heat rays downwardly, means for releasably retaining the lower shell in angular position and means for securing the device in a socket.

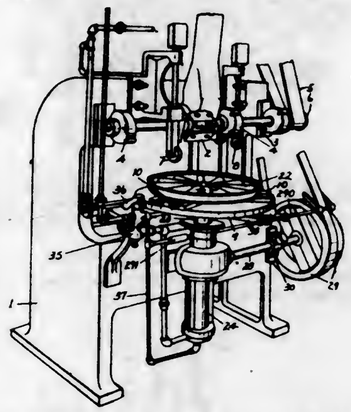
1,426,167. REVOLVING CUTTER HEAD FOR SPOKE-TURNING LATHES. HENRY FLICK, Jackson, Mich. Filed Oct. 4, 1921. Serial No. 505,242. 1 Claim. (Cl. 144—223.)



The combination of a cutter head with main blades curved at one end and straight at the other, and a spider with obliquely disposed saws at the outer ends of its arms

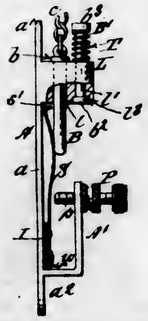
disposed between the straight ends of the said blades whereby a groove is cut at the same time the body of a spoke is turned, as specified.

1,426,168. FACING MACHINE FOR FACING THE CENTERS OF WOOD SPOKE WHEELS. HENRY FLICK, JOHN P. VOELKER, and HARRY DUNN, Jackson, Mich. Filed Oct. 14, 1921. Serial No. 507,761. 7 Claims. (Cl. 144—154.)



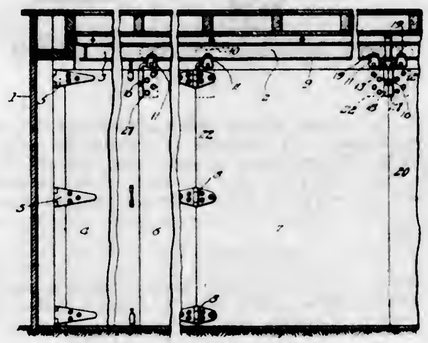
1. The combination of a suitable frame-work, a revolving cutter head carried by an overhanging portion thereof, means for driving the same, a horizontal revolving work table disposed with a raised center to one side of the cutter head, a center stop pin therefor and a corresponding stop carried by the overhanging portion, clutch jaws radially disposed on the said plate with shanks projecting there-beneath, segment pinions with pitman connected to actuate said jaws simultaneously, a central segment gear meshing with the said pinions to actuate the same simultaneously, a trunnioned air cylinder carried on the under side of said plate connected to an arm on the central gear for operating the same, an upright air cylinder with a piston for carrying the said table to and from the said cutter head, a gear for revolving the plunger for rotating the said table, a tight and loose pulley with air actuated belt shifter, and air connections for simultaneously operating the said clutch and plunger cylinders, coacting as specified.

1,426,169. BURGLAR ALARM. GEORGE WILLIAM FRANK, Jr., and FREDRICK CARLOCK, Jersey City, N. J., assignors to themselves and George William Frank, Sr., Jersey City, N. J. Filed Aug. 25, 1921. Serial No. 495,437. 2 Claims. (Cl. 200—55.)



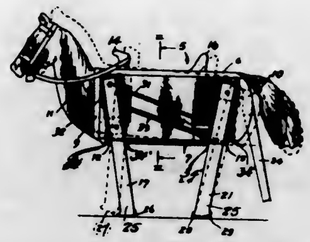
1. In a device of the character designated, the combination of a back plate formed with a projecting lug having a recess for the reception of a locking bolt, said locking bolt formed with a shoulder, a spring bolt resting in said lug, formed with a shoulder on its lower end, a spring contact attached to said back plate, but insulated therefrom, said spring contact formed at its upper end with a shoulder for engagement with the shoulder on the spring bolt, a bracket formed on said back plate, and projecting therefrom, and an adjustable contact mounted thereon, for the purpose described.

1,426,170. GARAGE-DOOR CONSTRUCTION. PETER FRANTZ, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a Corporation of Illinois. Filed Apr. 20, 1918. Serial No. 229,851. 8 Claims. (Cl. 20—20.)



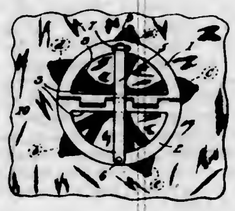
5. In a sliding door structure, a track, door hangers having wheels to travel on said track, a rod depending from each hanger, each rod being bent to extend horizontally from the hanger and then downwardly to the door, a swivel bearing on the door for each rod, whereby each rod turns about a vertical axis relatively to the door, and means to maintain each rod in the vertical plane of its allotted hanger.

1,426,171. TOY VEHICLE. JOSEPH H. FREDRICH and CHARLES BOCK, San Francisco, Calif. Filed Oct. 17, 1921. Serial No. 508,090. 1 Claim. (Cl. 46—22.)



A device of the character described, comprising a body simulating that of an animal, legs pivotally connected to said body and engageable with the ground for propelling the device upon a rocking movement of a rider seated on said body portion, said legs terminating in enlarged end portions, and inclined to limit the rocking movement of a rider thereon, tension means connected separately to each pair of legs and to the body of the device for controlling the movement of the said legs, buffers positioned on said body and adapted to receive the impact of the legs, and auxiliary safety means secured to the rear of the body, said means comprising a rod of a lesser length than the legs of the device and adapted to contact with the ground upon an extreme rearward rocking movement of the device.

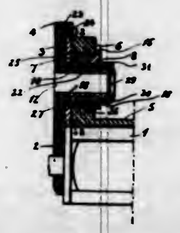
1,426,172. METHOD OF AND APPARATUS FOR MAKING AND SEWING STAR FORMS ON FABRICS. JOHN A. FREEZE, Sayreville, N. J. Filed Sept. 22, 1921. Serial No. 502,344. 5 Claims. (Cl. 223—52.)



1. A method of making and sewing star forms on fabrics consisting in forming a star upon a collapsible frame, placing the frame and formed star upon a fabric, stitching the star to a fabric and then collapsing the frame to disengage the frame from the star and fabric.

3. A device for forming stars embodying a pair of hinged semi-circular frame sections, radial points carried by the sections and means for holding the sections in circular formation.

1,426,173. ADJUSTABLE BEARING. GOTTLOB FUEGEL and HERMAN SCHMID, Brooklyn, N. Y., assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y., a Corporation of Delaware. Filed Dec. 27, 1918. Serial No. 268,554. 8 Claims. (Cl. 64—53.)



1. As an article of manufacture, a bushing having straight sides and rounded ends and an eccentric opening therethrough, one of said ends having a groove to be engaged by a fastening element and the other end having a recess to be engaged by a similar element, said recess communicating with said opening, and an external flange on the bushing.

1,426,174. POLYCHROME CANDLE AND METHOD OF MAKING SAME. KARL V. GAMBELL, Chicago, Ill. Filed Apr. 14, 1921. Serial No. 461,356. 6 Claims. (Cl. 87—21.)

6. The method which consists of forming a plain wax candle, applying to said candle a jacket of hot wax having a suitable pigment entrained therein, permitting said jacket to cool, and applying thereto while said candle is supported in the atmosphere, an unrestrained covering of hot wax having a different pigment entrained therein, said covering being arranged irregularly and unsymmetrically on said jacket so as to produce homogeneous, variegated polychrome candle.



1,426,175. PICKER-HEAD HOLDER. ROBERT S. GAMBRELL, Honea Path, S. C. Filed Sept. 6, 1921. Serial No. 498,739. 1 Claim. (Cl. 139—21.)



A picker head holder comprising a member including spaced limbs and a cross piece connecting the limbs at one end thereof, and said limbs being inset with relation to the cross piece to form inwardly directed flanges to reinforce and strengthen said holder as and for the purpose specified.

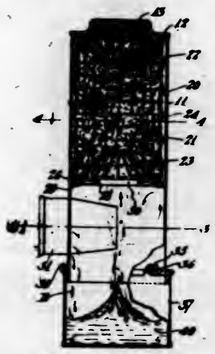
1,426,176. TRACE HOOK. JAMES A. GARDNER, Dixon, Miss. Filed Mar. 25, 1921. Serial No. 455,546. 1 Claim. (Cl. 24—230.5.)



A trace hook of the character described comprising a shank terminating to provide a single convolution wholly disposed to one side of the shank, and adapted to be received by the adjacent link of the trace, the terminal of said convolution being also curved to form a continuity thereof and projecting a slight distance beyond

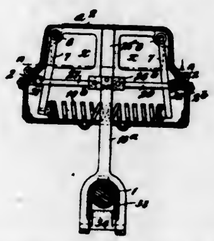
the circumference of said convolution, and spaced an appreciable distance from said shank to engage and bind against the outer edge of said link for the purpose specified.

1,426,177. WET-FILTER AIR CLEANER. HERMAN H. GARNER, Pomona, Calif. Filed Jan. 8, 1921. Serial No. 435,908. 10 Claims. (Cl. 183—8.)



1. An air filter comprising: a casing adapted to contain a body of liquid; a filter in said casing above said body of liquid; and means for producing an air vortex in said casing of sufficient strength to draw said liquid into said filter.

1,426,178. SPRING SUSPENSION. ALFRED WARWICK GATTIE, London, England. Filed Feb. 3, 1922. Serial No. 533,777. 9 Claims. (Cl. 267—20.)



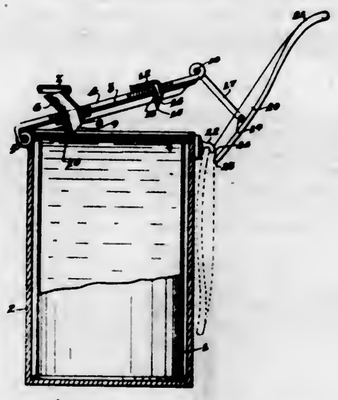
1. In a suspension and shock absorbing device, a case secured to the object to be suspended: an axle; the case being interposed between said axle and object; a plunger operatively connected to said axle and movable in said case; lever means operatively connected to said case; spring means appurtenant to said lever means and arranged for cooperating therewith for compression thereby; and operatively disposed members carried by said plungers comprising links cooperating with said lever means; the ends of the links being provided with means for engaging inclined surfaces appurtenant to said case.

1,426,179. CONVEYER. GEORGE GLASS, Milwaukee, Wis. Filed Mar. 1, 1919. Serial No. 279,956. 1 Claim. (Cl. 198—140.)



A conveyer construction comprising a series of bucket members connected together to form an inclined run, sprockets at the upper end of said run around which said buckets pass, each bucket member comprising a pocket portion and a bridging portion, said buckets lying substantially within the circumferential confines of the sprockets as they travel over said sprockets, said pocket portion being open on top to form a mouth lying substantially in a plane extending longitudinally of the plane of travel of the bucket, and comprising front, rear and side walls, said front, rear and side walls being rigid with respect to each other, said pocket being suspended in substantially vertical position on said inclined run, said bridging portion bridging the space between adjacent pockets and lying substantially in the plane of the mouth of its pocket, the front wall of the pocket forming an acute angle with respect to the mouth, and the rear wall of said pocket forming an obtuse angle with respect to the mouth, the rear wall and bottom of the bucket forming a heel portion which fits into and is embraced by the bridging portion and front wall of the succeeding bucket as the buckets pass around the sprockets, the teeth of said sprockets having a pitch equal to the distance between the pivotal connections between the buckets, and having operative engagement with the buckets at the pivotal points, the pivotal connection between the buckets being at the point of connection between the bridging portion of one bucket and the adjacent rear wall of the preceding bucket.

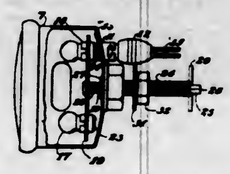
1,426,180. CAN OPENER AND DISPENSER. CARL GOTTFREDSEN, Los Angeles, Calif. Filed July 22, 1920. Serial No. 398,266. 3 Claims. (Cl. 65—61.)



1. The combination with a receptacle for a can, of a closure lid arranged to overlie said can and having a reinforcing strip diametrically across said lid and one end pivoted to said receptacle, a discharge spout and air vent carried by the lid and supported by said strip and arranged to puncture said can, the other end of said strip having a pivotal link connection with a lever, said lever having one end adapted to engage an outwardly extending lug fastened to said receptacle so that the lever can draw said lid downwardly against the can and retain the same in position.

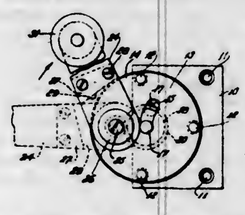
1,426,181. AUTOMOBILE LAMP. FRANK E. GREGORY, Sacramento, Calif., assignor of one-fourth to George A. McKinley, Vacaville, Calif. Filed June 18, 1920. Serial No. 389,946. 2 Claims. (Cl. 240—37.)

1. In a device of the character described, the combination of a lamp casing having a centrally located aperture in the rear wall thereof, a rotatable disk mounted within said casing, said disk having a rearwardly extending rod adapted to enter the aperture of said casing, a series of lamps detachably mounted on said disk, contacts detachably carried on said casing and adapted to



register with said lamps when said disk is rotated, means for rotating said disk, tension means mounted between said disk and said casing, said tension means serving to position the said disk and prevent rotation of said disk.

1,426,182. CAN OPENER. CARL WILH. GROSS, Bridgeport, Conn., assignor to Gross and Steiner, Bridgeport, Conn., a Copartnership consisting of Carl W. Gross and Victor A. Steiner. Filed Mar. 7, 1921. Serial No. 450,332. 9 Claims. (Cl. 30—3.)



1. In a can opener, a pair of spaced apart upper and lower plates having duplicate, aligning slots, and can opening means associated with said plates.

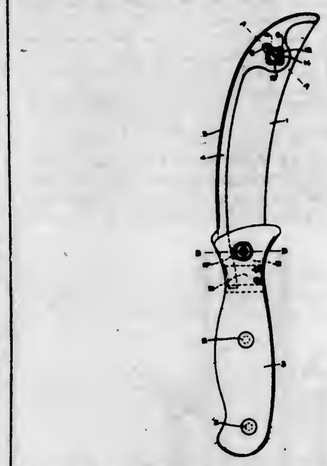
1,426,183. NECKTIE HOLDER. THEODORE M. GUEST, Rochester, N. Y., assignor to Guest Neckwear Company, Rochester, N. Y. Filed Nov. 12, 1920. Serial No. 423,626. 1 Claim. (Cl. 2—84.)



A necktie holder including a single length of spring wire bent to form a loop having a contracted open lower end, upwardly diverging curved arms having free upper ends, and integral connections between the arms and the sides of the contracted open end of the loop, said connections being spaced apart to provide a broad button receiving space opening into the contracted open end of the loop and being disposed in a plane at an angle to the plane of the arms, thereby to support the loop back of the arms and at an angle to the plane thereof and to the plane of the connections.

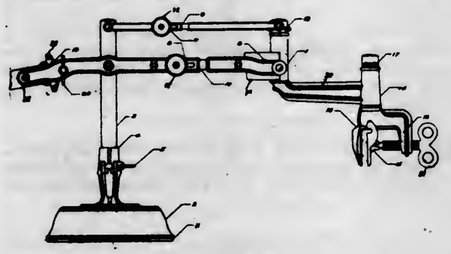
1,426,184. PROTECTING DEVICE FOR THE EDGE OF BUTCHERS' KNIVES. FRITIOF CORNELIUS HAMMAR, Gottenborg, Sweden. Filed July 3, 1922. Serial No. 572,667. 3 Claims. (Cl. 30—9.)

2. A protecting device for the edge of butchers' knives comprising an edge protecting member attached to the blade of the knife by means of a pin passing through holes in said member and blade, a handle for the knife,



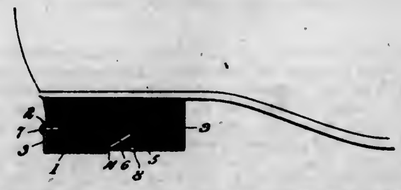
a spring provided adjacent to said handle, and said spring adapted to retain the one end of said protecting member when in operative position.

1,426,185. WASHING MACHINE FOR WASHING FABRICS. JACOB J. HARPEL, Elmira, N. Y. Filed Apr. 14, 1920. Serial No. 373,880. 4 Claims. (Cl. 259—124.)



1. In a washing machine of the character specified, a plunger, relatively upper and lower bars pivotally connected at one end to the stem of the plunger and spaced apart and a support having the opposite end of the bars pivotally connected thereto, one of said bars comprising relatively adjustable sections whereby the inclination of the plunger within certain limits may be varied.

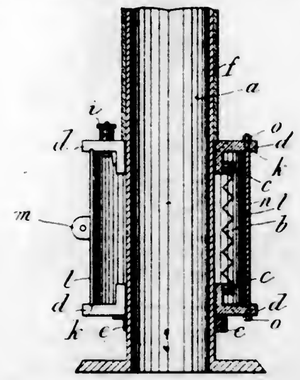
1,426,186. HEEL PLATE. NOAH HARRIS, Indianapolis, Ind. Filed Jan. 13, 1922. Serial No. 529,020. 1 Claim. (Cl. 36—73.)



In a wear plate for rubber heels, comprising a body portion of oval shape, lugs formed integral on the

periphery of the body portion; one of the lugs extending at right angles to the body portion and adapted to bear against the back of the heels and the other of the lugs extending at an approximate angle of forty-five degrees with respect to the body portion and having a pointed end whereby the last named lug may be forced into the heel, each of the lugs having elongated slots therein to receive fastening means whereby pressure exerted on the plate will cause the fastening means to move in the slots.

1,426,187. METHOD OF AND MEANS FOR VAPORIZING FUEL FOR INTERNAL-COMBUSTION ENGINES. WILFRID M. HARRISON, Cheshunt, England. Filed Apr. 21, 1921. Serial No. 463,288. 7 Claims. (Cl. 219—38.)



1. The herein described method of supplying gaseous fluid to an internal combustion engine in heat augmented condition which consists in passing the fluid through a conduit, electrically heating the conduit, and preventing loss of heat from the fluid by radiation from the conduit after the fluid has passed the heating zone, substantially as described.

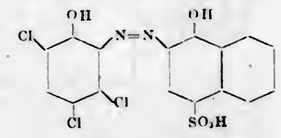
1,426,188. SHUTTLE FOR LOOMS FOR WEAVING. JAMES E. HAUGHTON and GEORGE BERRY, Manchester, England. Filed Mar. 15, 1921. Serial No. 452,525. 1 Claim. (Cl. 139—46.)



In a shuttle formed with a recess in its head, a guide block arranged in said recess, comprising three portions, one approximately horizontal, the second inclined thereto, and having a depression at their junction through which the yarn passes and is presented to the eye, the third portion having an aperture for the yarn and arranged in front of the other two portions in a vertical plane at right angles to the longitudinal axis of the shuttle to direct the yarn and prevent it ballooning out of position between the other two portions.

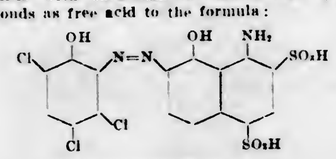
1,426,189. ORTHO-OXYAZO DYES. WILHELM HERZBERG, Berlin-Wilmersdorf, and OSWALD SCHARFENBERG, Berlin-Schoneberg, Germany, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Filed Nov. 5, 1921. Serial No. 513,169. 7 Claims. (Cl. 260—94.)

7. The new ortho-oxy-azo-dye which forms in the dry pulverized shape a dark powder soluble in water with reddish-violet color from which an acid separates a red precipitate, the aqueous solution becoming bluish-red by addition of sodium carbonate and orange by addition of sodium hydroxide, yielding upon reduction 3.4.6-trichlor-2-amino-1-oxybenzene and 2-amino-1-oxynaphthalene-4-sulfonic acid, dyeing on wool in the presence of an alkali metal chromate and an ammonium salt, such as ammonium sulfate violet tints of excellent fastness, the same shades being obtained by dyeing on wool mordanted with a chromium mordant or by dyeing wool in an acid bath and treating these tints afterwards with chromium mordants, which dye corresponds as free acid to the formula:

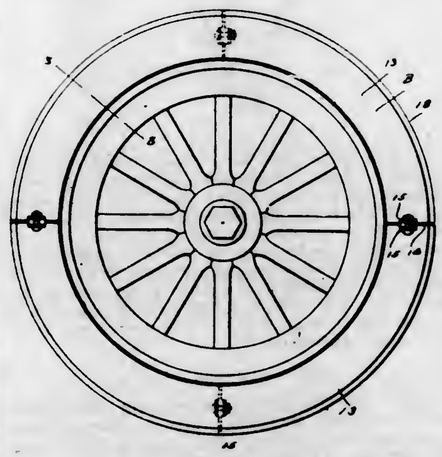


1,426,190. ORTHO-OXYAZO DYES FOR WOOL. WILHELM HERZBERG, Berlin-Wilmersdorf, and OSWALD SCHARFENBERG, Berlin-Schoneberg, Germany, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Filed Nov. 5, 1921. Serial No. 513,170. 7 Claims. (Cl. 260—92.)

7. The new ortho-oxyazo dye which forms in the dry pulverized shape of its sodium salt a dark powder soluble in water with greenish-blue color, the aqueous solution becoming violet by addition of sodium carbonate, red by addition of sodium-hydroxide and red-violet by addition of an acid, yielding upon reduction 3.4.6-trichloro-2-amino-1-oxybenzene and 1.7-diamino-8-oxynaphthalene-2.4-disulfonic acid, dyeing on wool mordanted with chromium mordants greenish-blue tints, the same shades being obtained by dyeing wool in an acid bath and treating them afterwards with chromium mordants, this dye which corresponds as free acid to the formula:



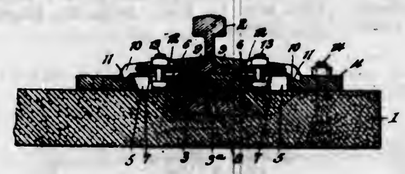
1,426,191. TIRE PROTECTOR. ELIAS A. HITCH, Guymon, Okla. Filed Aug. 6, 1921. Serial No. 490,246. 4 Claims. (Cl. 150—54.)



1. A pneumatic tire protector comprising opposite side members, each member being divided into a plurality of

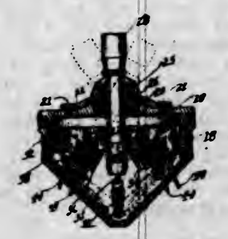
sections, means for interlocking the corresponding sections of the respective members and define a rib arranged circumferentially of the tire for the purpose specified, and means for securing the sections of each member together.

1,426,192. RAIL ATTACHMENT. JACOB HITZERT, Saginaw, Mich. Filed Apr. 5, 1922. Serial No. 549,676. 4 Claims. (Cl. 238—298.)



1. In rail fastening means, the combination of a plastic tie, a block of suitable material anchored in each end of the tie, said block having a recess therein, a plate adapted to rest upon and be secured to the tie and having a projection that rests in the aperture of the block, a bolt and nut receiving aperture formed in the plate adjacent the projection and on each end of the plate, transverse kerfs formed in the plate and a dog having a chamber and aperture to receive bolts whereby the dog is secured to the plate; said dog having one end that bears against the web of a rail and having the other end seated in one of the kerfs of the plate.

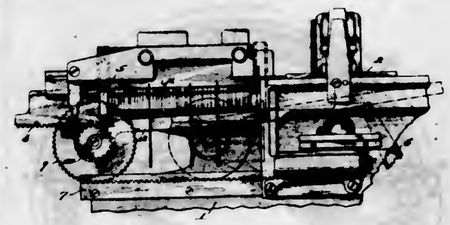
1,426,193. SWITCH FOR AUTOMOBILE DIRECTION INDICATORS. JOHN E. HOLMGREN, San Francisco, Calif. Filed Jan. 3, 1921. Serial No. 434,691. 3 Claims. (Cl. 200—6.)



1. In a selective switch control mechanism for a signal device, a cup shaped member, a conducting ring positioned within said member, a plurality of pairs of spring contacts connected to said ring, one of each of said pairs of contacts being directly connected to said ring, the other of each of said pairs being insulated therefrom, and a universally movable switch element joined to the base of said cup member and adapted to bridge any one pair of said spring contacts.

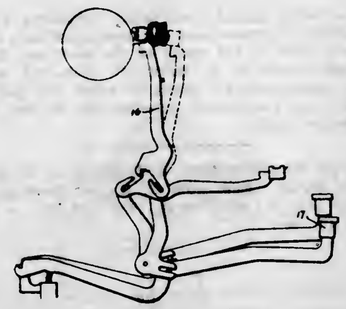
1,426,194. TYPOGRAPHICAL MACHINE. THOMAS S. HOMANS, Brooklyn, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 19, 1921. Serial No. 508,684. 9 Claims. (Cl. 199—48.)

1. In a typographical machine having a line-transfer carriage and a reciprocatory actuating member therefor, means for enabling said carriage to advance lines of matrices of a length greater than the usual length, comprising motion-transmitting means operatively connecting



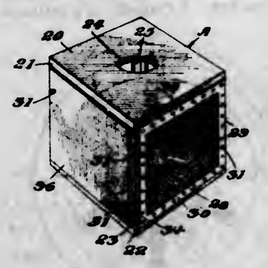
such carriage and actuating member and operative to reciprocate the carriage through a range greater than the range of reciprocation of the actuating member.

1,426,195. TYPEWRITER ATTACHMENT. WILLIAM JŪSABRŌ IWAMI, New York, N. Y. Filed June 13, 1921. Serial No. 477,141. 2 Claims. (Cl. 197—184.)



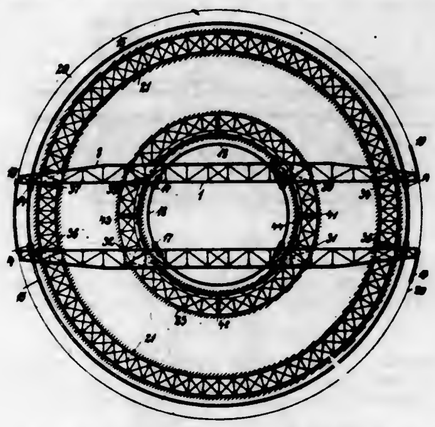
1. A typewriter attachment including in combination with the type bar of a conventional typewriting machine, of a cleaning element detachably secured to said bar.

1,426,196. FILTER. ANDERS JORDAHL, New York, N. Y., assignor of one-half to Midwest Steel and Supply Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 14, 1921. Serial No. 522,447. 5 Claims. (Cl. 183—46.)



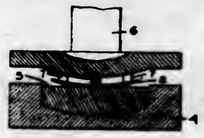
1. A filter comprising a frame unit having a plurality of open sides; filter units adapted to be secured in some of said open sides; and plates adapted to be secured in the remaining open sides, the filter units being interchangeable with each other and with the plates.

1,426,197. SHED FOR AIRSHIPS. BRUNO KANNENBERG, Berlin-Grunewald, Germany. Filed Feb. 19, 1921. Serial No. 446,478. 7 Claims. (Cl. 189—15.)



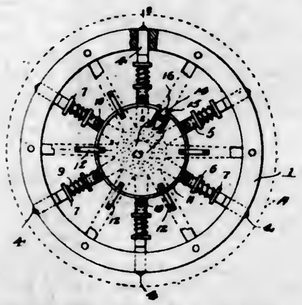
1. A rotary shed for air ships, comprising a pair of horizontal side frames, and ring means having a diameter at least equal to the width of the shed, and to which the side frames of the latter are connected, said ring means constituting tie means by which the side frames of the shed are united, substantially as and for the purpose set forth.

1,426,198. RUBBER HEEL AND METHOD OF MAKING THE SAME. FREDERICK R. KEITH, Randolph, Mass. Filed Dec. 2, 1921. Serial No. 519,320. 4 Claims. (Cl. 18—59.)



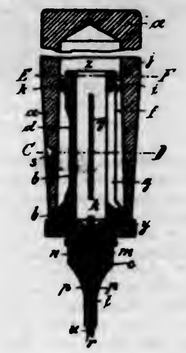
4. A rubber heel having a concavo-convex reinforcing plate pressed into the rubber constituting the heel before it is vulcanized and while it is soft and plastic.

1,426,199. TRACTION ATTACHMENT FOR WHEELS. PHILIP J. KENNY, Chicago, Ill. Filed Feb. 19, 1921. Serial No. 446,453. 5 Claims. (Cl. 301—47.)



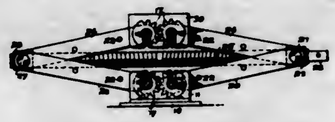
4. In a traction attachment, an auxiliary rim, a plurality of traction studs extending through said rim and normally resting in operative position, rollers rotatably carried by the inner ends of said studs, an expansible ring engaging said rollers and having its ends inturned, an expanding cam between said inturned ends and adapted to expand said ring for forcing said studs into inoperative position, said cam provided with flat portions at its maximum radii to hold said ring expanded, and yieldable means for maintaining said rollers in engagement with the perimeter of said expansible ring.

1,426,200. FOUNTAIN PEN. THEODOR KOVÁCS, Berlin, Germany. Filed Sept. 13, 1920. Serial No. 410,030. 8 Claims. (Cl. 120—43.)



7. Fountain pen comprising in combination with a hollow pen holder serving as an ink reservoir, a body inserted in said pen holder and stopping the open end the same being of smaller diameter than said pen holder so that between the outer surface of which body and the inner wall of the pen holder a separate capillary space is formed which is connected on the one hand with the ink reservoir and on the other hand with the atmosphere, a ring at the inner end of said body bearing against the inner wall of the pen holder having a slot connecting said capillary space with the ink reservoir and a capillary groove as extension of said slot designed to retain ink even if the ink level in the reservoir stands below said capillary groove, an extension at the outer end of said body having a capillary boring and a mouth piece for drawing thin lines being enlarged in one direction and forming a comparatively small tongue in a direction of 90° with regard to the first direction mounted upon said extension.

1,426,201. JACK. AMOS F. LANIER, Worcester, Mass., assignor, by mesne assignments, to Hi-Lo-Jack Company, a Corporation of Massachusetts. Filed June 4, 1920. Serial No. 386,519. 6 Claims. (Cl. 254—122.)



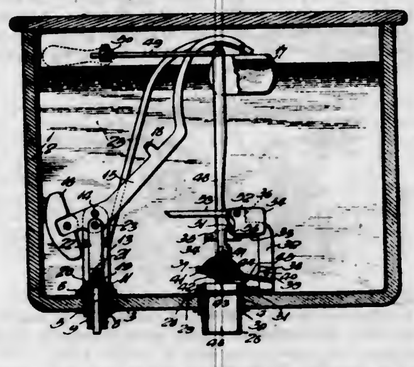
1. In a load lifting jack, the combination of a base having openings, shafts located in said openings, bearing members pressed into the openings and carrying the shafts, said base having slots along which the shafts can be moved into the openings in the absence of the bearing members, with a lazy tongs structure carried by said shafts.

1,426,202. SHAFT FOR GOLF CLUBS AND THE LIKE. ALLAN E. LARD, Washington, D. C., assignor to The Metallic Shaft Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 15, 1921. Serial No. 500,792. 13 Claims. (Cl. 46—4.)



1. A tapered shaft for golf clubs comprising a core having a series of V-shaped channels extending longitudinally thereof, said channels narrowing in width and depth toward the lower end of the shaft; and a filler strip secured within each of said channels.

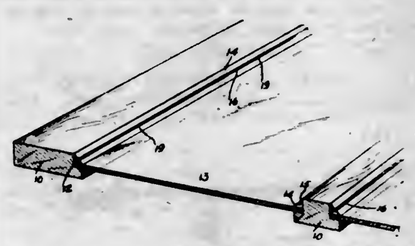
1,426,203. FLUSH TANK. EDWARD LEEBERG, Roselle, N. J. Filed Nov. 13, 1919. Serial No. 337,743. 5 Claims. (Cl. 4—5.)



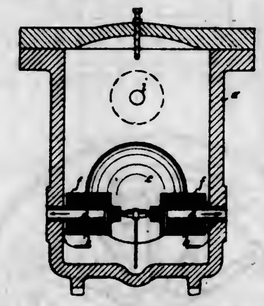
1. A device of the class described comprising a tank having inlet and outlet openings therein, an inlet valve for said inlet opening, a bushing disposed in and extending through said outlet opening and provided at its inner end with a head and a valve seat, a ring clamped between said head and said tank and provided with a lateral extension, an upright arm formed integral with the outer end of said extension, a horizontal arm extending laterally from the upper end of said upright arm, a guide carried by said horizontal arm, a weighted outlet valve hinged to said upright arm and seating upon said valve seat, means for opening said outlet valve and including a link slidably received in said guide, an overbalanced lever pivoted to said horizontal arm, interlocking elements carried by said link and said lever for holding said outlet valve open when opened to permit said tank to drain, means carried by said link for swinging said lever as said valve is opened to position said elements for interlocking engagement, and a movable member having its movement controlled by the level of the liquid in said tank and connected to said inlet valve to open the latter as the level of the liquid in said tank descends, said member being positioned for engagement with said lever when said tank has been flushed to swing said lever and disengage said element to permit said outlet valve to close.

1,426,204. WINDOW-PANE FASTENER. WILLIAM LEICHTFUSS, New York, N. Y. Filed Apr. 12, 1921. Serial No. 460,761. 1 Claim. (Cl. 20—56.4.)

A device for fastening a window pane in a rabbeted sash, comprising a flat metallic strip of material having a longitudinally extending centrally arranged V-shaped depression forming a groove of gradually decreasing widths at the transverse center of said strip, said strip adapted for oblique arrangement within the angle formed at the juncture of the pane with the sash to dispose the opposite edges thereof respectively in engagement with the sash and pane, said strip adapted to have fastening elements driven through the V-shaped depressed portion thereof and anchored in the sash with the heads thereof disposed within the groove defined by the depressed portion of the strip whereby said heads will be gripped by the V-shaped groove and retained in a countersunk position.

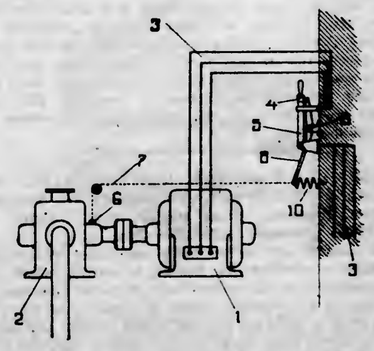


1,426,205. STEAM TRAP. REINHOLD LÖFFLER, Berlin, Germany, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Filed Mar. 23, 1922. Serial No. 546,188. 4 Claims. (Cl. 137—103.)



1. In a steam trap, the combination of a tubular member carrying a plurality of axially spaced external disks, a cylindrical member having a plurality of internal annular ribs positioned to take up the spaces between said disks, the said disks and ribs having perforations adapted to register to define a passage, means defining a conduit between said passage and the tubular member and means for angularly moving the tubular member and the cylindrical member relatively to one another.

1,426,206. PUMP. GUNNAR FREDRIK LYBECK, Gottenborg, Sweden. Filed Mar. 7, 1922. Serial No. 541,877. 4 Claims. (Cl. 103—25.)



1. In an apparatus of the character described, the combination with a circuit breaker and an electrically driven

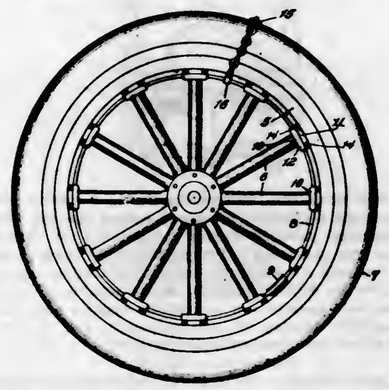
device capable of becoming overheated on continuous operation, of a melting body for application on the electrically driven device, and means associated with the circuit breaker and operably connected with the body for breaking the circuit upon the melting of the body.

1,426,207. CENTER AND SURFACE TESTING INDICATOR. DANIEL M. DUFF, Dorchester, Mass. Filed Oct. 21, 1920. Serial No. 418,354. 8 Claims. (Cl. 33—172.)



1. An indicator adapted for use as a center or surface tester comprising a supporting member, a flexible member secured to the supporting member, a feeler mounted thereon and movably supported thereby, and an indicating member arranged to be moved by movements of the feeler upon flexure of the flexible member.

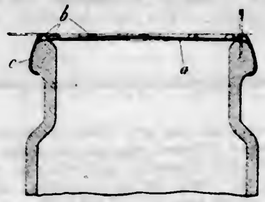
1,426,208. ATTACHMENT FOR MOTOR-VEHICLE WHEELS. THOMAS F. MULCAHEY, Colfax, Ill. Filed Feb. 23, 1922. Serial No. 538,701. 1 Claim. (Cl. 152—14.)



In a device of the class described, a pair of rings one disposed upon each side of a wheel and against the spokes thereof, a pair of grip irons, said grip irons comprising base portions and ring engaging portions, the said base portions resting upon the felly of the wheel and adjacent the spokes thereof and one upon each side of said spokes, the ring engaging portion of each iron embracing the adjacent portion of the ring, and bolts disposed transversely of the wheel and connecting the said grip members.

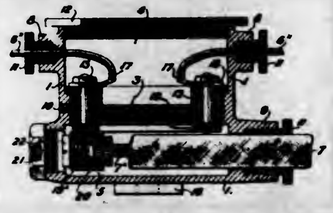
1,426,209. CLOSURE FOR BOTTLES, JARS, AND OTHER RECEPTACLES. CHARLES LESLIE NEWLAND, Eltham, England. Filed May 2, 1922. Serial No. 557,888. 3 Claims. (Cl. 215—38.)

1. A closure for bottles, jars and other receptacles, comprising a resilient disc having a central bulged portion capable of being sprung into opposite positions on each side of a horizontal plane, a plurality of marginal fingers integral with the central bulged portion and adapted to be moved away from or into contact with the beaded edge of the receptacle according to whether the flexible disc is sprung in towards said fingers or away from same, and a plurality of upstanding projections near the periphery of the said disc, the said projections providing in effect a discontinuous flange and being so arranged



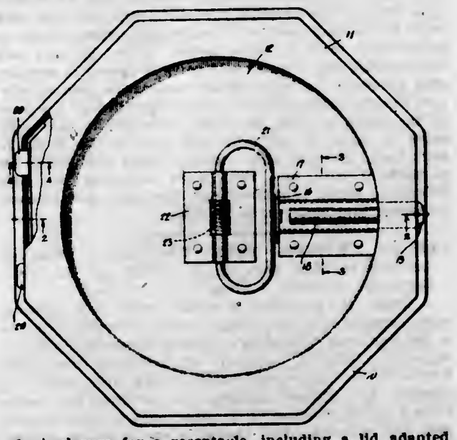
or disposed that they always tend to protect the bulged portion of the disc and also assist in the closing of the cap.

1,426,210. JUNCTION BOX FOR ELECTRIC CONDUCTORS. RODOLPH STUART O'NEIL, London, England, assignor to O'Neil's Recorder Syndicate Limited, London, England. Filed Sept. 23, 1920. Serial No. 412,254. 1 Claim. (Cl. 247—14.)



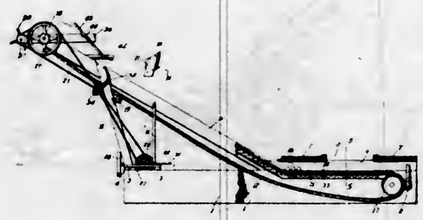
In a junction box for connecting the ends of a plurality of electrical conductors to a main cable carrying a single conductor, the combination with a casing, a disc of insulating material dividing said casing into two chambers and a plurality of terminal pins of conducting material passing through said disc and spaced apart therein, said plurality of conductors being respectively connected to said terminal pins in one chamber, of a ring of conducting material located in the other of said chambers and electrically connected with all of said terminal pins, a boss formed on said ring, and means for connecting said single conductor with said boss.

1,426,211. CLOSURE. HUGO RICHARD PAUSIN, Allendale, N. J. Filed Mar. 23, 1921. Serial No. 454,883. 8 Claims. (Cl. 220—57.)



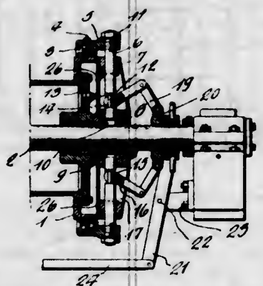
1. A closure for a receptacle, including a lid adapted to be applied to a receptacle, a latch secured to said lid and being adapted to co-operate with said receptacle to retain the same in applied position, and a handle for carrying said receptacle, said handle being movably secured to said lid and being adapted to co-operate with said latch to normally prevent a retraction of the same.

1,426,212. LOADER. HANS H. PETERSEN, Correctionville, Iowa. Filed Oct. 14, 1920. Serial No. 416,787. 2 Claims. (Cl. 198—128.)



1. In a loader, the combination of a conveyer having an inclined portion, spreader arms pivotally mounted at the upper end of the inclined portion of the conveyer, a spreader shaft mounted in the outer ends of said arms, radial blades extending along the shaft between the arms, means for rotating the shaft, and means for pivotally adjusting the arms, the arms being normally so disposed that the spreader shaft is below the end of the conveyer.

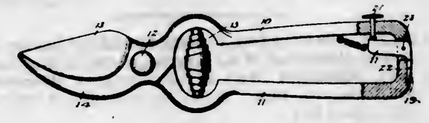
1,426,213. CLUTCH MECHANISM. JOHN K. PIERCE, Fort Worth, Tex. Filed May 13, 1921. Serial No. 469,242. 2 Claims. (Cl. 192—70.)



1. In a clutch mechanism in which external clutch shoes are adapted to bind upon the outside surface of a rotary friction drum, and in which the shoes are carried upon the outer ends of reciprocating rods carried in a rapidly rotating clutch wheel, with means to shift the rods in and out accordingly as the clutch is to be engaged or disengaged, of means carried by the rods at portions thereof within the clutch wheel and extending transversely through the rods with end portions of said means adapted to project outwardly beyond the surface of the rods and to lie in the path of inner portions of the clutch wheel whereby to encounter such inner portions of the clutch wheel to avoid the rods becoming disengaged therefrom on breakage of the means for reciprocating the rods or the rod's connection with such means, substantially as described.

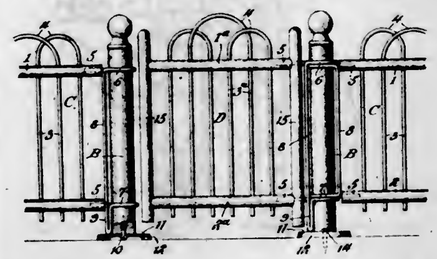
1,426,214. ATTACHMENT FOR PRUNING SHEARS. ANTONIO RAUSSE, Northvale, N. J. Filed Apr. 1, 1922. Serial No. 548,746. 3 Claims. (Cl. 30—11.)

1. In combination with a tool of the scissors type including spring-controlled operating handles, a locking attachment comprising latch means pivoted to one handle, means in conjunction with the other handle adapted to be engaged by the latch means when the handles are



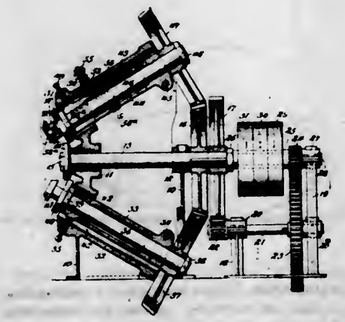
brought together, spring means for normally retaining the latch means in active position, and means associated with the handle for retaining the latch means out of active position while the handles are being operated.

1,426,215. MINIATURE FENCE. WILLIAM I. RAVEAT, Hazleton, Pa., assignor to A. W. Drake Manufacturing Co., Hazleton, Pa., a Corporation of Pennsylvania. Filed June 8, 1921. Serial No. 476,028. 4 Claims. (Cl. 256—24.)



1. A toy fence, comprising separate posts, each having extended bases, and separate panels, connecting rings located on each end of a panel, the connecting rings of the adjacent ends of the panels adapted to be slipped on a post in superposed relation, and a foot on one end of each panel adapted to rest on the base of said post and support the panels in swinging relation spaced above the horizontal plane of the post base.

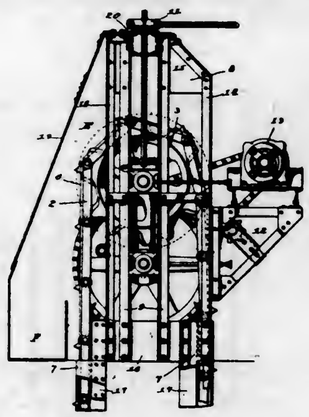
1,426,216. BEVEL SHEARING MACHINE. ALBERT R. ROBERTS and GEORGE T. SMITH, Chattanooga, Tenn. Filed Sept. 15, 1920. Serial No. 410,384. 15 Claims. (Cl. 164—60.)



1. In a bevel shearing machine, a main frame, a main shaft, a pair of auxiliary frames hingedly mounted on the main frame, a shaft journaled in each auxiliary frame, beveling cutters on the corresponding ends of each shaft, and means for rotating the three shafts in unison.

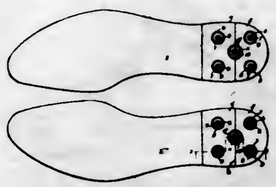
whereby the edges of plates or bars may be beveled in opposite directions without necessitating the turning over of the plates or turning end for end of the bars.

1,426,217. TRAVELING WATER SCREEN. GUSTAV R. RODDY, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 26, 1921. Serial No. 448,133. 5 Claims. (Cl. 210—175.)



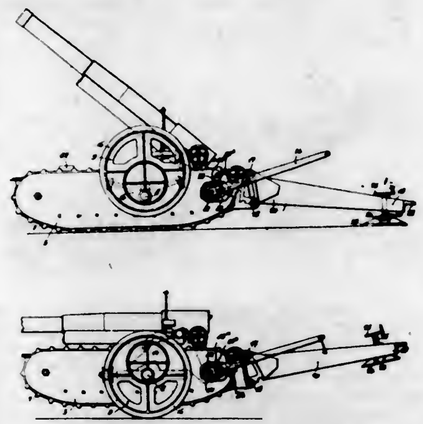
1. In an endless traveling water screen comprising separate screening elements, parallel chains to which these are connected and head wheels with which the chains engage, a framework for supporting the head wheels and their shaft bearings, constructed to expose the peripheries of the head wheels and portions of the chains immediately adjacent thereto, on one side of the screen.

1,426,218. RUBBER HEEL. ARTHUR E. ROPE, Brooklyn, N. Y. Filed May 28, 1921. Serial No. 473,471. 2 Claims. (Cl. 36—35.)



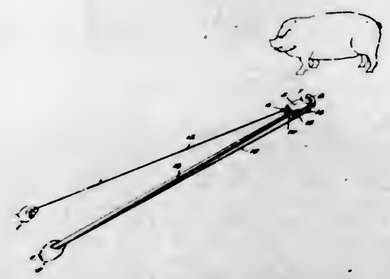
1. In combination with a shoe heel, a rubber heel comprising a pair of sections, means for attaching each section to the shoe heel, said rubber heel sections having recesses located in alinement with one another and extending inward from their meeting edges to provide a counter-sunk opening through them when the sections are fitted together, means for mounting in the counter-sunk opening to engage both sections, and means for attaching said section engaging means to the shoe heel.

1,426,219. GUN-CARRIAGE TRAILER WITH COMBINED PROPULSION BY WHEELS AND BY ENDLESS TRACK MEMBERS. IRÈNE ROY, Paris, France. Filed June 28, 1920. Serial No. 392,307. 6 Claims. (Cl. 89—40.)



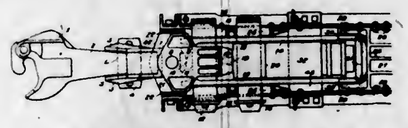
1. An artillery truck comprising a frame, two endless tracks and two road wheels adapted to be put in use alternately, and in the rear portion of the said frame a pivoted trail adapted for rigid connection wtih the said frame in different positions and a plate pivoted to the movable end of the said trail and adapted to be placed flat upon the ground.

1,426,220. ANIMAL CATCHER. FRANK SAJTAR, Polar, Wis. Filed June 14, 1921. Serial No. 477,459. 1 Claim. (Cl. 119—151.)



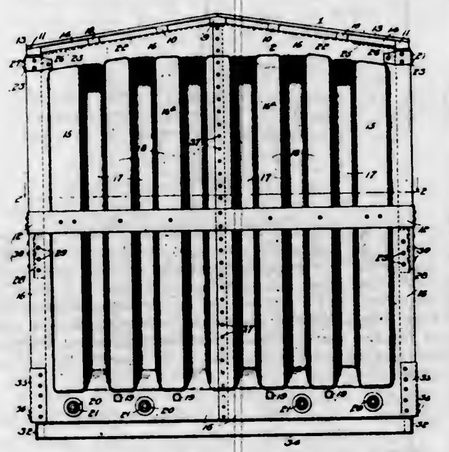
An animal catching device embodying a snap hook having a side entrance opening and a spring projected longitudinally slidable latch normally closing said opening, a relatively long handle detachably secured to said snap hook, flexible means operable from a distant point for retracting said latch, and flexible means attached to the snap hook for leading the animal upon detachment of said handle, the means for detachably connecting the handle to the snap hook embodying a lateral prodding pin upon one end of the handle, and said snap hook being provided with a socket for reception of said one end of the handle with one wall of the same provided with a bayonet slot for reception of said pin.

1,426,221. DRAFT RIGGING. AUGUST G. SANDMAN, Baltimore, Md. Filed July 20, 1920. Serial No. 397,778. 9 Claims. (Cl. 213—42.)



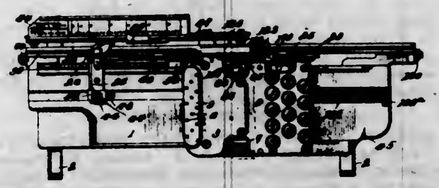
1. In a draft rigging, the combination with a yoke, of a block slidably connected thereto and adapted to engage the cushioning mechanism of the draft rigging, a coupler and means interposed between the said coupler and the said block and pivotally connected to one of said members for transmitting draft strains from the coupler to the said yoke.

1,426,222. END PLATE FOR FREIGHT CARS. AUGUST G. SANDMAN, Baltimore, Md. Filed Aug. 19, 1921. Serial No. 493,524. 5 Claims. (Cl. 105—410.)



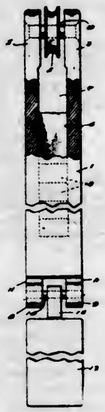
1. The combination with a car end framing, of a metallic end adapted to cooperate therewith, said framing including an inner lining, an end sill, a body bolster and corner posts, said metallic end comprising a plurality of metallic plates fitting over said corner posts and secured to said end sill, said plates each being furnished with corrugations whose depth is substantially equal to the distance between said inner lining and the front face of said end sill, and means for securing said metal end to said bolster, said means extending between each corner post and the adjacent side sheathing and being connected to the former.

1,426,223. VERIFYING MACHINE. JOHN T. SCHAAFF, Washington, D. C. Filed Aug. 12, 1921. Serial No. 491,725. 39 Claims. (Cl. 164—112.)



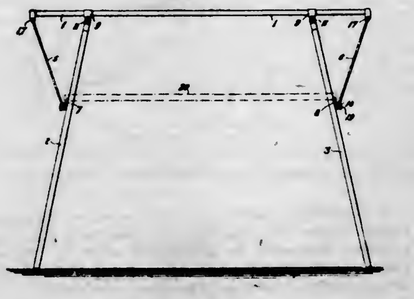
1. In a machine of the class described, the combination of a series of key controlled punches, a card carrier for presenting a card to said punches, said card carrier including adjustable means engaging one end of the card whereby said card may be shifted on the carrier for registration.

1,426,224. WINDOW-SASH WEIGHT. CHRISTIAN L. SCHNEIDER, Davenport, Iowa. Filed Jan. 10, 1921. Serial No. 436,193. 1 Claim. (Cl. 16—218.)



A window sash weight comprising a rectangular body having a hook arranged at its bottom end and parallel arms extending from its other end and further having a longitudinally centrally arranged recess that opens out at the base of said arms, and a pulley mounted in the upper ends of the arms so as to be spaced from the open end of said recess, and weights adapted to be passed under the pulleys and deposited in the open end of the recess.

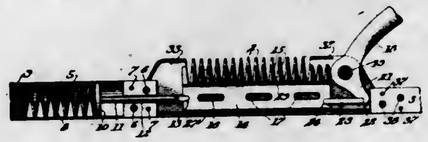
1,426,225. PORTABLE STAND FOR DISPLAYING GARMENTS. HENRY CHARLES SHORT, Southall, England. Filed Apr. 12, 1922. Serial No. 551,842. 4 Claims. (Cl. 211—14.)



1. A portable collapsible stand for displaying garments; comprising in combination a horizontal bar from which said garments are to be suspended, a supporting device adjacent each end of said bar, each said supporting device comprising a pair of supporting legs, means for loosely pivoting the upper ends of said pair of legs adjacent to each other and to said horizontal bar near one end thereof and about an axis extending at right angles to said bar to allow said pair of legs to be splayed apart in planes at right angles to the axis of said bar to

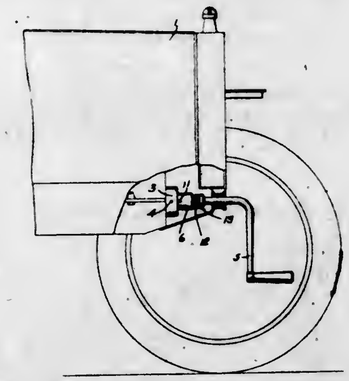
support the latter or be turned about said pivot to about parallel with said bar when not required for use, a cross piece for each pair of legs, a pivot secured to one end of said cross piece to one leg of a pair, means for detachably connecting the other end of the cross piece to the other leg of the pair to hold said legs splayed apart, a tie rod for each pair of legs, a pivot connecting one end of said tie rod to one end of said horizontal bar, said tie rod extending angularly downwards to said cross piece of the adjacent pair of legs, and means for detachably connecting said end of said tie rod to said cross piece.

1,426,226. HAIR CUTTER. LOUIS JOHN SIGORSZKY, Easton, Pa. Filed July 31, 1920. Serial No. 400,428. 5 Claims. (Cl. 30—1.)



1. A hair-cutter, comprising a back plate provided with comb teeth and a stationary handle, and a reciprocating cutter-bar arranged on said back plate, an operating lever movably connected with said cutter-bar at one end, a concealed spring movably connected with said cutter-bar at the other end and in substantial alinement therewith, and a cover for the body of the cutter-bar and its operating parts.

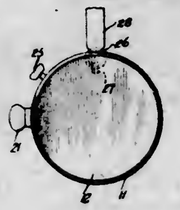
1,426,227. FAN-PULLEY WHEEL AND CRANK RATCHET. GEORGE A. SLEIGHT, Hyde Park, N. Y. Filed Aug. 13, 1921. Serial No. 492,001. 8 Claims. (Cl. 74—33.)



1. A combined pulley and crank ratchet comprising a pulley, means for connecting the same to a crank shaft, a sleeve connected to said crank shaft by the same means as the pulley, a clutch carried by said sleeve, and a notched crank for actuating said clutch.

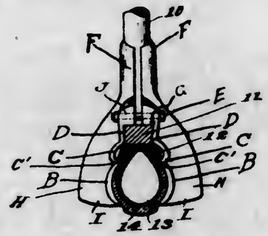
1,426,228. MIRROR AND LIGHTING MEANS THEREFOR. NATHAN SLOANE and MAX SLOANE, Brooklyn, N. Y. Filed Nov. 29, 1921. Serial No. 518,729. 2 Claims. (Cl. 240—8.4.)

1. In a mirror and lighting means therefor, a shell constituting a battery casing, a pair of clamps secured to the shell for holding a battery therein, a lamp on the shell and projecting to the exterior of the latter, means on the shell to make and break the lamp in the battery circuit, a clamp ring on the shell at the front and detachably engaging by its rear edge the shell at the open front of the latter, a mirror within said ring, and means on the ring permanently holding the mirror inde-



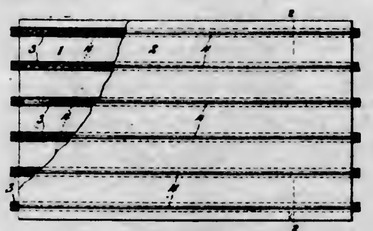
pendently of the engagement of the clamp ring with said shell.

1,426,229. TIRE TRACTION LUG. GEORGE W. SMITH, Dallas, Tex. Filed Jan. 31, 1921. Serial No. 441,522. 3 Claims. (Cl. 301—44.)



2. A tire traction lug comprising a wedge shaped portion to engage the free edge of the tire mounting rim, means to engage the inner annular wall and a side wall of the felly, means to fasten the lug to a spoke of the wheel, and a curved portion extending downwardly from the portion first named and embracing the side wall of the tire and a laterally extending combined traction lug and reinforcing rib carried by said tire embracing plate.

1,426,230. CRIB OR BED COVER. ROBERT RITCHIE SMITH, Chester, Pa. Filed Sept. 7, 1921. Serial No. 499,009. 7 Claims. (Cl. 5—3.)

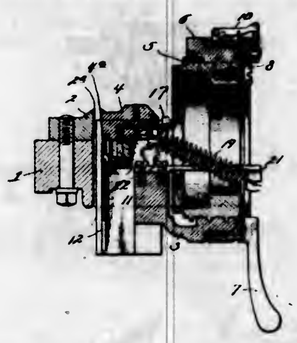


1. A cover or blanket comprising facing and backing sheets of fabric with spaced, elastic strips located between the sheets and secured to the fabric, with the sheets shirred where secured to and by the elastic strips to permit extension of the cover or blanket in one direction and to hold the cover or blanket substantially non-extensible in a direction at right angles to the first named direction.

1,426,231. SLUG-TRIMMING KNIFE FOR LINE-CASTING MACHINES. SAMUEL E. SPERRY, Woodhaven, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed July 30, 1921. Serial No. 488,592. 9 Claims. (Cl. 199—59.)

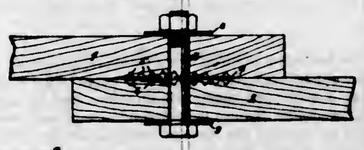
1. A slug-trimming means for line casting machines comprising a support, cooperative knives one of which is

adjustable relatively to said support in a direction toward and from the other knife, the support having rests on which the adjustable knife bears at its respective



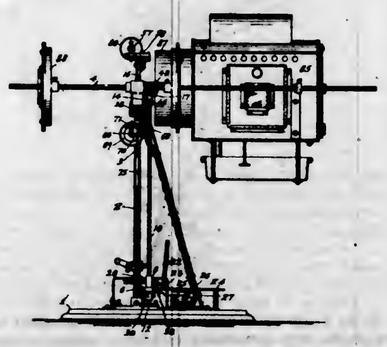
ends and which rests extend in advance of the edge of the adjustable knife, and means for holding the adjustable knife in engagement with said rests.

1,426,232. WOOD JOINT. OLAV TRYGVE THEODORSEN, Christiania, Norway. Filed Aug. 13, 1920. Serial No. 403,271. 4 Claims. (Cl. 85—11.)



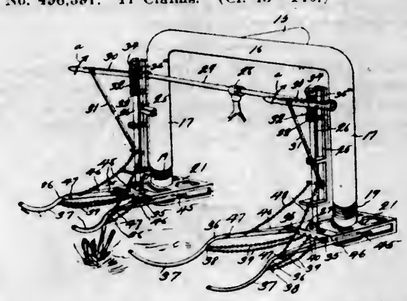
1. A wooden joint comprising wooden members and a sheet metal plate between the wooden members, the sheet metal plate being provided at its outer edges with teeth alternately bent in opposite directions, and so arranged that the base of each tooth is at less than a right angle to the edge of the plate.

1,426,233. TELAUTOGRAPHIC APPARATUS. GEORGE S. TIFFANY, Summit, N. J., assignor to Telautograph Corporation, Richmond, Va., a Corporation of Virginia. Filed Feb. 1, 1918. Serial No. 214,853. 1 Claim. (Cl. 33—24.)



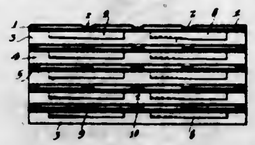
In a telautograph, the combination with a transmitter and a receiver provided with a tracer and pen respectively, of a pair of suitably supported oscillating shafts provided with gears, gears meshing therewith and connected with the receiving pen, and connections between said shafts and the transmitter tracer whereby the receiving pen is caused to reproduce the writing movements of the tracer.

1,426,234. BOLL-WEEVIL DESTROYER. PAULINE B. WEISS, New York, N. Y. Filed Aug. 29, 1921. Serial No. 496,397. 11 Claims. (Cl. 43—140.)



1. A boll weevil collecting machine comprising a wheel supported frame, plant agitating means carried by said frame, a suction pipe disposed rearwardly of the agitating means, said suction pipe having its intake end disposed adjacent the surface of the ground, ground engaging means for maintaining the suction pipe at a uniform distance from the ground as the machine advances and means located forwardly of the suction pipe whereby dislodged weevils and squares will be guided to a position under the intake end of the suction pipe.

1,426,235. RADIATOR CONSTRUCTION. FRANK B. WENTWORTH, Los Angeles, Calif. Filed Sept. 22, 1919. Serial No. 325,501. 6 Claims. (Cl. 257—130.)



1. A radiator having a plurality of parallel tubes, and intermediate spacing elements folded to provide oppositely disposed channels with a series of air deflecting fins stamped from the wall of each channel and extending into said channel, the fins in each channel being relatively and alternately disposed in respective planes converging inwardly, with the rear portions of the fins spirally contoured.

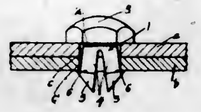
1,426,236. BALL BEARING. EDWARD WILLIAMS, Smethwick, England. Filed May 11, 1922. Serial No. 560,204. 5 Claims. (Cl. 64—36.)



1. In combination, an inner race ring, an outer race ring, a single row of rolling elements arranged between

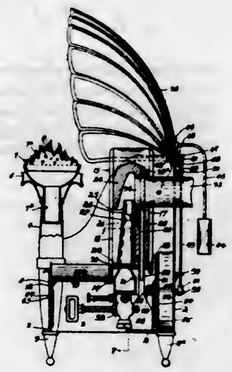
said rings, one of said rings consisting of two annular sections arranged on opposite sides of a perpendicular line intersecting the axis of said rings, said sections being provided with shaped surfaces engaging opposite sides of each of said rolling elements, and a shell cooperating with said sections and having end flanges engaging the outer side surfaces of the sections, said shell being provided intermediate its ends with an annular depressed portion extending between said sections for preventing said sections from binding on the rolling elements.

1,426,237. SNAP STOVE BOLT. ETIENNE WITZBERGER, Carnegie, Pa., assignor to Witzberger Heating Appliances Company, a Corporation of Pennsylvania. Filed Nov. 12, 1921. Serial No. 514,685. 3 Claims. (Cl. 85—9.)



1. In a device of the character described, a body threaded to receive a nut on one end and provided at its other end with outwardly diverging resilient arms, said arms being provided at their outer ends with enlarged heads forming shoulders projecting beyond the arms for engagement with the inner surface of a sheet of material through which the bolt is inserted

1,426,238. MOVABLE REFLECTOR HEATER. ETIENNE WITZBERGER, Carnegie, Pa., assignor to Witzberger Heating Appliances Company, a Corporation of Pennsylvania. Filed Nov. 15, 1921. Serial No. 515,395. 6 Claims. (Cl. 126—92.)



1. In a stove of the character described, a casing, a fireback supported in the casing and provided with a passage extending through the body of the back from the lower end thereof, heat generating means adjacent to the fireback, a rockably mounted deflector above and in rear of the fireback, the upper end of said passage being disposed to discharge air flowing through the passage against the deflector, and means for causing air to flow through said passage from the lower end thereof and for imparting rocking movement to the deflector.

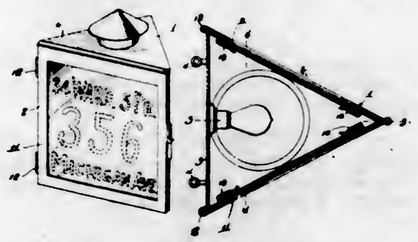
1,426,239. SPRING STOVE BOLT. ETIENNE WITZBERGER, Carnegie, Pa., assignor to Witzberger Heating Appliances Company, a Corporation of Pennsylvania. Filed Nov. 15, 1921. Serial No. 515,396. 4 Claims. (Cl. 85—9.)

1. In a device of the character described, a body threaded at one end for reception of a clamping ring, two telescoping members mounted transversely of the body, means for forcing said members away from each other, and means



for limiting outward movement of the telescoping members.

1,426,240. INDICATOR LAMP. EMANUEL E. ZIENNER, Chicago, Ill. Filed Mar. 9, 1922. Serial No. 542,386. 1 Claim. (Cl. 40—132.)



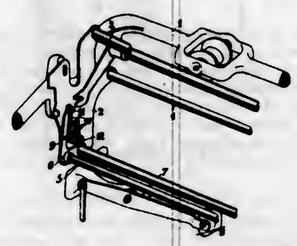
In an indicator lamp of the character described, a body structure having a back wall and open side walls and forming a structure substantially triangular in cross section, hinged door frames mounted upon said side walls and adapted to meet at the apex of said triangular body structure, each of the said door frames being equipped with sockets adapted to register with each other for aligning the said sockets at the apex of the said body structure when the doors are closed, a locking pin in one of said sockets adapted to be received in the other socket to lock the doors at their meeting edges, and a pair of sign plates attached to each door frame.

1,426,241. SEDIMENT-CONTAINING BOTTLE CAP. JOSEPH J. ZINI, Chicago, Ill. Filed Feb. 21, 1922. Serial No. 538,252. 3 Claims. (Cl. 215—73.)



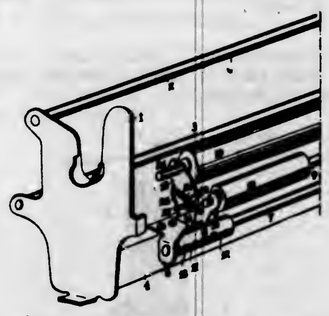
1. As a new article of manufacture, a sediment containing bottle cap comprising a hollow having a relatively large supporting end, a bottle mouth engaging end, an annular flange formed about said cap, a connecting member extending partly about said cap and abutting said flange, and a clamping member connected to said connecting member.

1,426,242. PLATEN LOCK. HEINRICH FRANZ EDMUND BAESELER, Dresden, Germany, assignor to Akt. Ges. vorm Seidel & Naumann, Dresden, Germany, a Corporation of Germany. Filed Oct. 12, 1920. Serial No. 416,575. 5 Claims. (Cl. 197—79.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



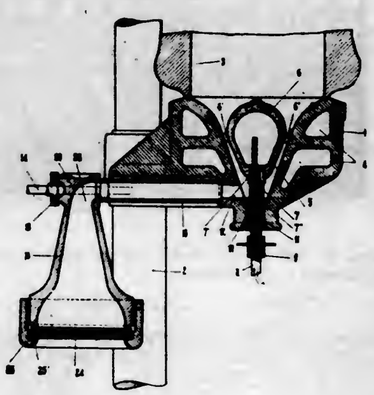
1. In a typewriting machine in combination a carriage, a platen frame mounted in said carriage normally in lower case position but vertically movable relative to said carriage to upper case position, a latch carried by said platen frame and engageable with said carriage to hold said platen frame and carriage relatively fixed when in lower case position, said latch being constructed to be free from contact with any element extraneous to the platen frame during return movement of said frame to permit frictionless return of the latter.

1,426,243. ARRANGEMENT OF THE PAPER-PRESSING ROLLERS OF TYPEWRITING MACHINES. HEINRICH FRANZ EDMUND BAESELER, Dresden, Germany, assignor to Akt. Ges. vorm. Seidel & Naumann, Dresden, Germany, a Corporation of Germany. Filed Oct. 12, 1920. Serial No. 416,581. 7 Claims. (Cl. 197—131.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



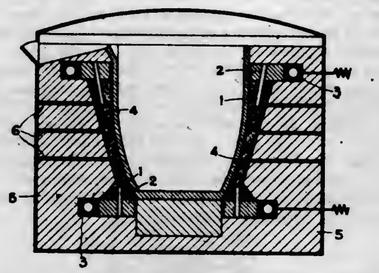
1. In a typewriting machine, a cylinder frame, an impression cylinder mounted to rotate in said frame, a rock shaft carried by the frame, a pair of bearing levers mounted to rock on said rock shaft, a rollers journaled in said bearing levers and adapted to engage said impression cylinder, a second pair of bearing levers carried by said frame, a second roller journaled in the latter bearing levers and adapted to engage said impression cylinder at a point on its periphery at a distance from said first-named roller, spring means tending to maintain said rollers in engagement with said impression cylinder and means carried by said rock shaft and engageable with one of each of said pairs of bearing levers to rock said levers and move said rollers out of engagement with said impression cylinder when said rock shaft is actuated.

1,426,244. PRESS FOR PASTY MATERIALS. FILADE BARDUCCI, Naples, Italy. Filed Jan. 19, 1920. Serial No. 352,265. 5 Claims. (Cl. 107—14.)



3. In a press for drawing pasty materials, the combination of a block having a conical main chamber and secondary chambers connected with said block; and a heating member removably mounted in the central portion of said main chamber.

1,426,245. ELECTRIC RESISTANCE HEATER FOR HIGH TEMPERATURES. BRUNO BAUER, Zurich, and ALFRED VON ZEERLEDER, Geneva, Switzerland, assignors to Societe Anonyme des Ateliers de Sécheron, Geneva, Switzerland. Filed Dec. 10, 1919. Serial No. 343,919. 4 Claims. (Cl. 204—64.)

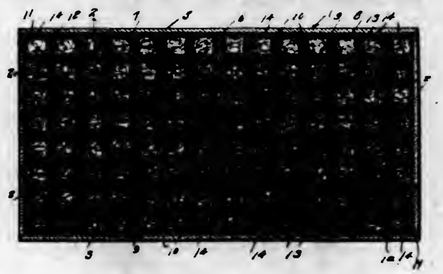


1. In an electric resistance heater for high temperatures, for electric furnaces, the combination of a mouldable heating body of any resistance material stable at high temperatures, current supply poles arranged in front of the upper and lower ends of the resistance heating body, rod-like electrodes of similar resistance material to that of the resistance heating body, carried by said current supply poles and arranged so as to deeply extend from above and below into the resistance heating body, an envelope of refractory material surrounding the latter, subtantially as described.

1,426,246. EGG CARRIER. MARIA A. BENEDICT, New York, N. Y. Filed Nov. 30, 1918. Serial No. 264,825. 2 Claims. (Cl. 217—35.)

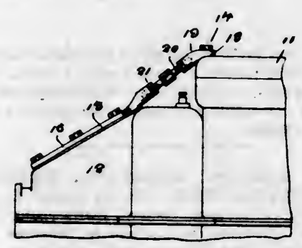
1. An egg carrier having a tray provided with a pocket, cushioning means for the egg in said pocket, a

tray resting on said tray and closing the open end of the pocket, and said second tray having an egg cushioning



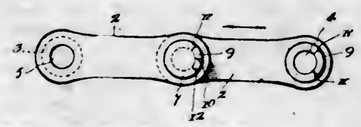
means on the under surface of its bottom wall over and exposed to the pocket.

1,426,247. ADJUSTABLE BRACE. ALBIN BENGTSON, Luck, Wis. Filed Oct. 10, 1919. Serial No. 329,779. 1 Claim. (Cl. 180—54.)



In combination with the motor and transmission casings of an automobile, said motor casing having its head secured thereto by bolts, the transmission casing having the usual opening provided with a closure plate that is bolted thereto, of reinforcing means between the casings, comprising straps secured to the plate by the bolts that hold the plate on the transmission casing, each of said straps having its outer end enlarged and formed with an interiorly threaded socket, an angle socket member secured by the end bolts to the motor casing and disposed in a line with the first mentioned sockets having interior threads of an opposite pitch from those of the first mentioned sockets, bolts having oppositely pitched ends received on the sockets, and lock nuts on the bolts contacting with the sockets.

1,426,248. SPROCKET CHAIN. LEO BETHKE, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 16, 1918. Serial No. 254,305. 4 Claims. (Cl. 74—32.)



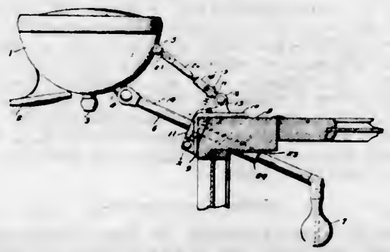
3. A link such as described in claim 1, wherein the projection therein mentioned is the segment of a hub surrounding the pintle opening, the ends of which segment are radial with the axis of such opening, in combination with a pintle having a head recessed to fit the projection carried by the side bar of the link, when the pintle is seated and in working position.

1,426,249. NAIL-HOLDING DEVICE. STEFAN BOCHONOK, Pittsburgh, Pa. Filed Jan. 24, 1921. Serial No. 439,466. 1 Claim. (Cl. 1—47.)



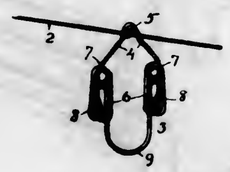
In a device of the character described, a handle, and a shank secured at one end of said handle and flattened at the other end, the flattened end portion of the shank being longitudinally slotted to form resilient jaws, said jaws being adapted at their outer ends to be forced over and to fit about a nail or similar article, the jaws being provided in their inner faces with opposed transverse slots for reception of a nail or similar article.

1,426,250. MOTOR-VEHICLE SPOTLIGHT. FRED S. BOYES, Knightstown, Ind. Filed May 28, 1921. Serial No. 473,542. 6 Claims. (Cl. 240—7.)



1. In combination, a vehicle spot light, a shaft having pivotal connection therewith, a support in which said shaft is mounted for free, independent, rotary and longitudinal movement to angularly adjust the spot light both vertically and laterally, and constraining means wholly independent of the shaft and having pivotal connection with the spot light and support and having a universal joint in its length.

1,426,251. CLOTHESPIN. DAVID S. BOYLES, Rock Hill, S. C. Filed June 25, 1921. Serial No. 480,474. 3 Claims. (Cl. 24—139.)

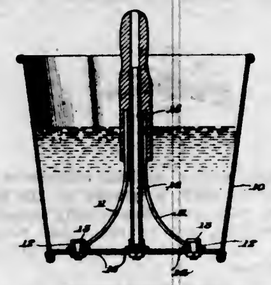


1. In a spring wire clothes pin, a wire gripping member including a coil in the general plane of the clothes line and adapted to rest thereon to limit the downward movement of the pin, the ends of said coil having laterally opposite loops depending therefrom and straddling said line and extending below the same and adapted to pin the clothes to the line.

1,426,252. CALF FEEDER. IKE BRATCHER and OSCAR BURGHARDT, Protection, Kans.; said Burghardt assignor to said Bratcher. Filed Apr. 25, 1921. Serial No. 464,119. 2 Claims. (Cl. 119—71.)

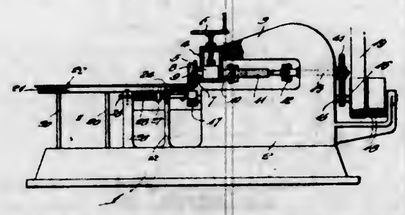
1. The combination with a receptacle, of a tubular member supported from the bottom centrally of the receptacle and disposed within the latter, a sleeve of

relatively soft material fitted on the tubular member and projecting above the latter and also above the



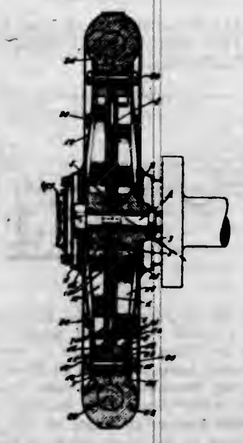
receptacle, and a plurality of elements supporting said sleeve and terminally secured to the bottom of the receptacle at spaced points about the tubular member.

1,426,253. METAL-FLANGING MACHINE. HENRY R. BREMER, Kansas City, Mo. Filed Aug. 8, 1921. Serial No. 490,678. 4 Claims. (Cl. 153—29.)



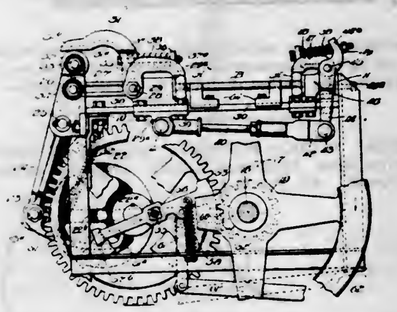
1. A flanging machine comprising a pair of spaced rollers and driving means for at least one of said rollers, means mounting said rollers with their axes in parallel relation, one of said rollers having a circumferential flange, a sheet-carrying die adapted to travel between said rollers, and means for forcing said die continually toward the flange of said one roller.

1,426,254. WHEEL. WILLIAM S. BRICKELL, Buffalo, N. Y. Filed Dec. 21, 1920. Serial No. 432,248. 3 Claims. (Cl. 152—51.)



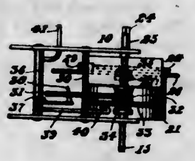
1. A wheel including hub sections, a disk therebetween, dowels extending through the disk and into the hub sections, rings forming the rim of the wheel, an annular rib upon one of the rings and engaging the other ring to hold the rings spaced apart, angular guide projections upon the other ring and interposed between both rings, flanges extending inwardly from the inner portions of the rings and spaced apart by the guides, said flanges constituting means for receiving the marginal portion of the disk, and annular series of springs interposed between each ring and one of the hub portions, said disk and flanges being extended between the series of springs.

1,426,255. LADDER-MAKING MACHINE. PETER BROMAN, Chicago, Ill., assignor to Brown Safety Ladder Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 31, 1919. Serial No. 334,834. 5 Claims. (Cl. 144—2.)



1. A machine for pressing metal rungs into side bars including relatively movable plates adapted to press said side bars, means for relatively positioning the rungs and side bars, adjustably connected means to clamp the tops of said side bars, and means for forcing said plates toward each other, said latter means including a plurality of slidable blocks, a cam for moving each of said blocks and a cam shaft for moving said cams.

1,426,256. MOTOR FAN. JOSEPH BRZOZOWSKI, Wilkes-Barre, Pa. Filed Aug. 4, 1921. Serial No. 489,751. 4 Claims. (Cl. 230—1.)

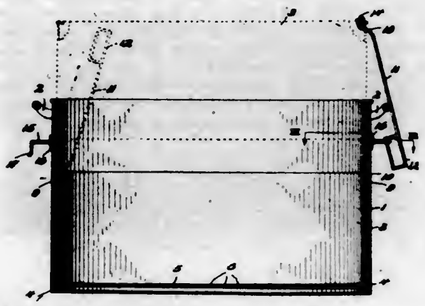


1. A spring motor for fans including a spring and a plurality of train of gears operatively connected thereto, a transverse shaft adjacent said gears, a stop hook projecting from said shaft with an angular end portion adapted for engaging between the shaft of one of said gears, a brake wire projecting from said shaft at a different angle from the stop hook with an angular end portion adapted for frictionally engaging another one of said gears during the stopping operation.

1,426,257. WASHBOILER. JOE BRZYSKI and WALTER FELSKI, Milwaukee, Wis. Filed Aug. 29, 1921. Serial No. 496,446. 2 Claims. (Cl. 68—30.)

1. A wash boiler of the class described including an outer receptacle, a clothes container removably posi-

tioned within the outer receptacle, detachable means for elevating the inner receptacle and rotatable hook mem-



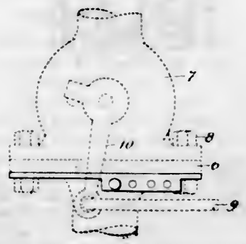
bers carried by the opposite ends of the outer receptacle for detachable engagement with the elevating means for maintaining the clothes container in a raised position.

1,426,258. CUBOID SUPPORT. WILLIAM C. BURNS, Albany, Oreg. Filed Sept. 7, 1921. Serial No. 498,998. 3 Claims. (Cl. 36—71.)



2. A cuboid support comprising a leather body having a substantially straight outer edge whereby the same is widened transversely, said body having a longitudinal slit providing a pocket, an insert received in and adhesively connected to the walls of the pocket, said insert being at its greatest thickness at the portion thereof arranged to support the cuboid bone thereof, and gradually decreasing in thickness from said point in all directions.

1,426,259. CONTROLLING DEVICE FOR CARBURETORS. SAMUEL CRUCES and ERNESTO LOBO, Mexico, Mexico. Filed Mar. 6, 1922. Serial No. 541,403. 3 Claims. (Cl. 137—139.)



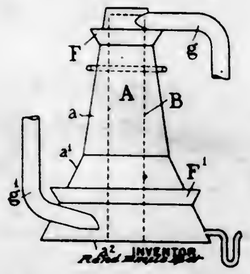
1. A controlling device for carburetors, comprising a standard provided with two legs adapted to be attached straddling over the carburetor, the upper part of said standard being cut out to form a guiding groove for a valve stem to slide in, a projecting flange at both the upper and the lower edge of said guiding groove and provided with aligned adjusting perforations, and a sealed stop pin piercing said flanges.

1,426,260. DISH-WASHING MACHINE. FREDERICK LELAND DAVIDSON, Halifax, Nova Scotia, Canada. Filed July 8, 1921. Serial No. 483,339. 1 Claim. (Cl. 141—9.)



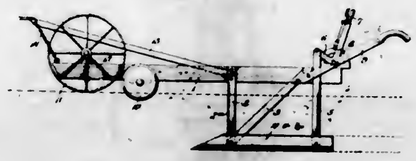
In combination with a washing machine of the kind described, a rotary shaft, a splasher on the shaft comprising a hub, with two diametrically opposite vanes extending therefrom, one of the vanes being curved longitudinally, and a flattened portion on the outer end of the curved vane.

1,426,261. CONSTRUCTION OF SULPHURIC-ACID CHAMBERS. RENÉ EMILE DION, Billancourt, France. Filed Mar. 25, 1921. Serial No. 455,487. 6 Claims. (Cl. 23—1.)



1. A chamber for use in the manufacture of sulphuric acid formed of two frusto-conical portions disposed in upright position and the one portion superposed on and connected to the remaining lower portion, the sides of the lower portion being of greater inclination to the vertical than the sides of the upper portion and the upper portion of the chamber forming a contracted enclosing area, an inlet connection to the lower portion of the chamber, and an outlet connection to the upper portion of the chamber.

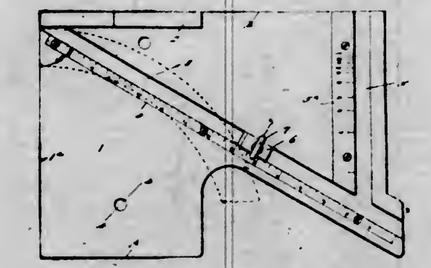
1,426,262. DRAINING DEVICE. AUGUST DISK, Loganville, Wis. Filed Sept. 1, 1921. Serial No. 497,607. 1 Claim. (Cl. 37—52.)



In means for the purpose set forth, the combination of a main beam, a small disk wheel secured at a point slightly beyond the transverse center of the beam, traction wheels secured upon the beam in front of the disk wheel, downwardly extending brace rods depending from the main beam, angle brace rods secured to the first named brace rods and at an angle on the main beam, guide rods secured to the main beam, a movable brace rod arranged adjacent the main beam, an arm secured to the movable rod, a rack mounted on the main beam

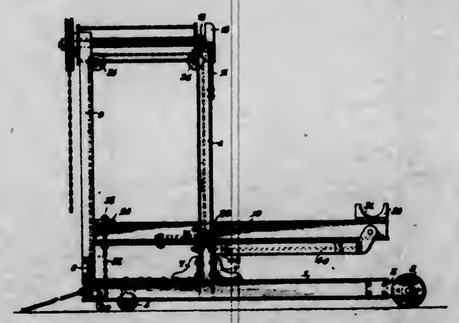
and adapted to act as a fulcrum for the arm, a dirt removing log having a pointed end secured to the brace rods and movable rod, and a draw bar mounted on the upper end of certain of the brace rods.

1,426,263. SEGMENT-TRIMMING INSTRUMENT. FRANK DOX, Pittsburgh, Pa. Filed Aug. 27, 1920. Serial No. 406,332. 4 Claims. (Cl. 33—174.)



1. In an instrument of the character described, a base provided at one end with a straight edge, a setting member adjustable on said base along a line disposed at an angle of 60° to said straight edge, and a stop member secured to the base at right angles to the straight edge and intersecting the path of travel of said setting member.

1,426,264. HOIST. FRANCIS E. DRAKE, Davenport, Iowa. Filed Nov. 21, 1921. Serial No. 516,722. 6 Claims. (Cl. 254—4.)



1. A hoist comprising a frame having a movable guide, lift arms fulcrumed on said guide and horizontally adjustable, a plate extending from said movable guide and having the ends of said lift arms pivoted thereto, a pair of links pivoted at one end to each other, a pin passing through the pivoted ends of the links, said plate provided with a slot for receiving said pin, the other ends of the links being pivoted to the respective lift arms intermediate their ends.

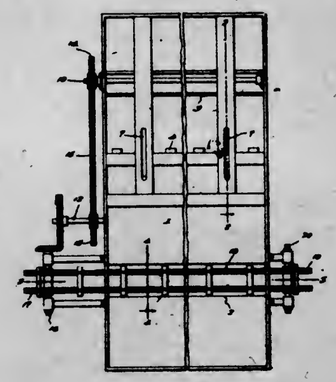
1,426,265. TOOL HANDLE. PETRA ELENCHUK, Boston, Mass. Filed Dec. 29, 1921. Serial No. 525,800. 4 Claims. (Cl. 81—177.)

1. A tool handle comprising a body portion, a side arm extending from one end thereof, a locking arm pivoted to said end adjacent the other side, a stub shaft having a rotatable bearing end journaled in the fixed arm, a polygonal head carried by the other end of the stub shaft, the intermediate portion of the stub shaft being rectangular



in cross section, a toothed wheel and disk tool received on the rectangular portion of the stub shaft, and tensioned means carried by the handle engaging the toothed wheel to hold the shaft rigidly mounted.

1,426,266. DAIRY BARN. ISAAC H. EVANS, Ava, Mo. Filed July 9, 1921. Serial No. 483,588. 7 Claims. (Cl. 119—15.)



1. In a barn, a movable stanchion adapted to be moved by the animal in reaching for its feed, a driven member, cleaning means actuated by said member and means for imparting the movement of the stanchion to said member.

1,426,267. COMBINED SCREEN AND STORM SASH. LAWRENCE W. FISHER, Wilsonville, Nebr., assignor of one-half to Arthur Bird, Wilsonville, Nebr. Filed Apr. 30, 1920. Serial No. 377,874. 1 Claim. (Cl. 20—36.)

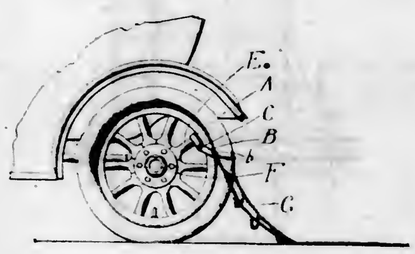
A device of the class described having a frame and sashes, said frame having recesses to receive said sashes between its side faces with one side face of the frame flush with one side face of each of the sashes, a mullion

between the recesses, said sashes and said recesses being substantially of the same size, said frame having a retaining portion to overlap the other side of each face of the



sashes, the sashes at the first mentioned side face being rabbeted to selectively receive either screens or glass plates, and means to secure either said screens or glass plates in the rabbets.

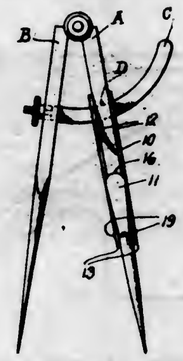
1,426,268. TIRE-CHAIN-ATTACHMENT DEVICE. CLIFFORD FLUGEL, Cincinnati, Ohio. Filed Mar. 10, 1920. Serial No. 364,819. 1 Claim. (Cl. 152—14.)



An anti-skid chain applying device comprising a U clip adapted to engage a wheel spoke, arms formed on the clip, fingers pivotally attached to the arms and hooks formed on the fingers adapted to engage an anti-skid chain.

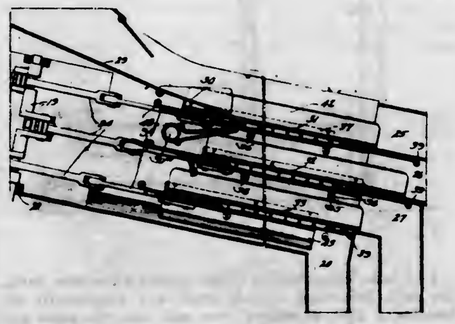
1,426,269. DIVIDERS. ORLANDO FORCE, Akron, Ohio. Filed Jan. 29, 1921. Serial No. 441,000. 3 Claims. (Cl. 33—153.)

3. A clamping device for dividers including a pair of pivoted legs, one of which is provided with a slot, and a guide carried by the other leg and slidable through said slot; said device comprising a member adapted to be disposed against the slotted leg and formed at one end with ears provided with slots adapted to be registered with the



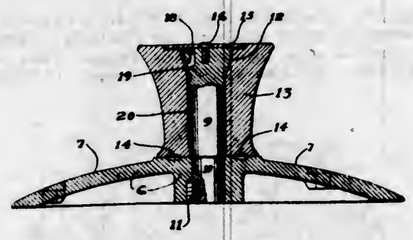
slots in the legs, said member being provided at its other end with spaced ears, and a locking lever pivoted between said second named ears and having a cam extension adapted to engage the slotted leg.

1,426,270. GRAIN CLEANER. FRIEND FOWLER, Moose Jaw, Saskatchewan, Canada. Filed Apr. 20, 1920. Serial No. 375,300. 4 Claims. (Cl. 130—15.)



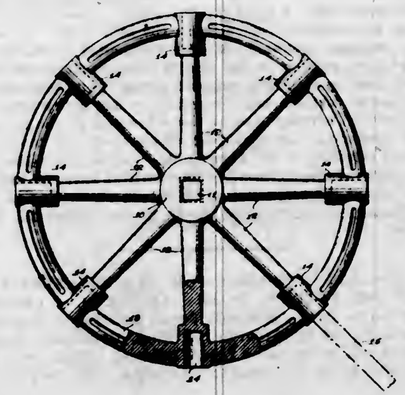
2. A grain separator including a chute, supporting means positioned within said chute, carriages movably resting upon said supporting means, said carriages each comprising angle irons and screens extending between said angle irons, a combing device arranged below each of said screens, supporting means interposed between said combing device and the upper face of the lowermost arm of each of said angle irons, and means for reciprocating each of said carriages.

1,426,271. MINING SHEAVE. ANDREW BANDURA, Chicago, Ill. Filed Oct. 18, 1921. Serial No. 508,477. 9 Claims. (Cl. 104—189.)



1. A mining sheave comprising an arched base; a support formed centrally beneath said arched base, said support providing a bearing; and a sheave roller mounted in said bearing, substantially as described.

1,426,272. VALVE HANDWHEEL. FREDERICK ROCKWOOD BANKS, Paterson, N. J., assignor to McNab & Harlin Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Feb. 17, 1921. Serial No. 445,711. 2 Claims. (Cl. 74—33.)

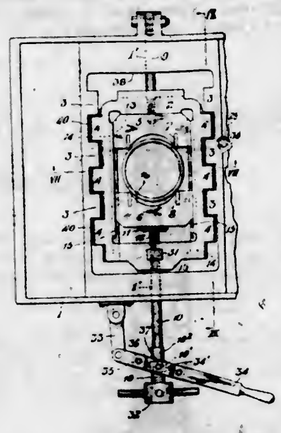


1. A handwheel for high pressure valves having a rim and radiating spokes, said rim being provided with radial sockets open at the peripheral face of the rim for the insertion of a leverage extension member with which to turn the wheel said sockets extending into the respective spokes.

1,426,273. ATTACHMENT FOR TAPPING MACHINES. ALBERT J. BARBER, Steubenville, Ohio, assignor to The Pipe Machinery Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 17, 1920. Serial No. 381,927. 11 Claims. (Cl. 10—107.)

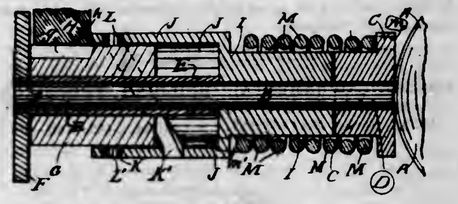
11. In attachments for tapping machines and the like, the combination of a table; a yoke longitudinally movable thereof; two series of inwardly and outwardly extended blocks formed upon said table and yoke, respectively, and adapted, in one position of said yoke, to be positioned one series above the other to support said yoke, and in another position of the latter, to be positioned so that one series can pass the other in a vertical plane; a pair of relatively movable gripper blocks; means securing said blocks to said yoke; a trunnion secured to one of said gripper blocks and having an externally threaded portion; a nut secured in said yoke and adapted to receive and co-

operate with said trunnion; means for turning said trunnion; a second trunnion mounted in said table and secured



to said yoke; and an operating lever pivoted at one end upon said table and pivoted intermediately its ends to said first-mentioned trunnion.

1,426,274. ELECTRIC STARTER. ODILON BRISBOIS, Gary, Ind. Filed July 25, 1921. Serial No. 487,306. 3 Claims. (Cl. 74—7.)



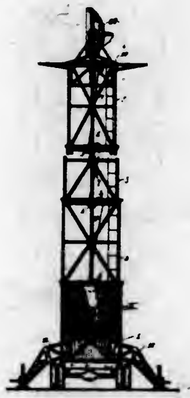
1. In an electric car starter, a rotatably mounted shaft, a non-rotatable sleeve mounted on said shaft, and a combined hub and cylindrical member mounted on said shaft, said cylindrical member provided with a spirally extending slot, and a yielding connection between said combined hub and cylindrical member and said shaft, in combination with a gear pinion member loosely mounted on said sleeve and a projection on said gear member engaging with said spirally extending slot.

1,426,275. METHOD OF MAKING RINGS AND THE LIKE. ALPHONSO S. CAMPBELL, West Medford, Mass., assignor to A. S. Campbell Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 6, 1921. Serial No. 459,115. 4 Claims. (Cl. 113—116.)



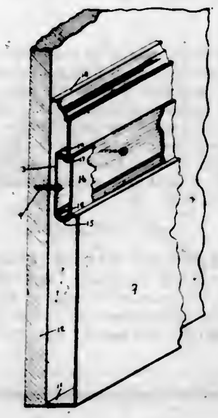
1. The method of making rings and the like from sheet metal, which comprises stamping on the sheet the desired ring while leaving the center portion of the metal to stiffen the ring, reinforcing the ring by assembling therewith a stiffening member and subsequently removing the center portion.

1,426,276. CONSTRUCTION OF EXTENSIBLE TOWERS. HANS L. CHRISTIE, Pittsburgh, Pa., assignor of one-fourth to Charles H. Clark, one-fourth to Howard Beach, and one-fourth to Frederick Shaefer, all of Pittsburgh, Pa. Filed June 9, 1919. Serial No. 302,894. 2 Claims. (Cl. 189—14.)



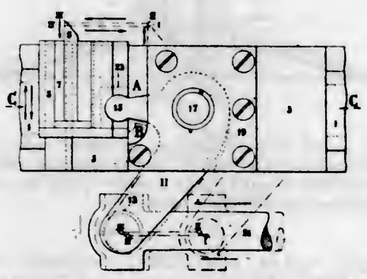
1. A portable extensible tower comprising a truck, mounted on wheels having a casing or body portion, a series of extensible sections supported on said truck, the casing constituting a receptacle for the said sections when collapsed, the upper section having a platform, a search light mounted on said platform, the said platform forming the roof or cover of the structure when the said sections are collapsed.

1,426,277. ORNAMENTAL BUILDING TRIMMINGS. FLORENCE L. CONANT, Yonkers, N. Y. Filed Mar. 21, 1921. Serial No. 453,887. 8 Claims. (Cl. 189—34.)



1. A construction of the class described comprising a channelled member adapted to rest against a supporting surface and arranged to support the channel at a distance from said surface; securing members passed through the bottom of said channel to said surface adapted and arranged to adjust the width of the channel; and a member removably fitting said channel, substantially as described.

1,426,278. MACHINE FOR CUTTING BEVEL-GEAR WHEELS WITH HELICAL OR STRAIGHT TEETH. VICTOR GASPARD DARTOIS, Paris, France. Filed Nov. 13, 1920. Serial No. 423,897. 2 Claims. (Cl. 90—8.)



1. A device producing the spacing of the planing tools of a machine for cutting gear wheels or other machine-tool, comprising: a fixed carriage-guide—a horizontal carriage longitudinally movable on the said guide,—a vertical carriage mounted in the horizontal carriage,—a tool-holder secured in the said vertical carriage,—a bent lever having a limited angular stroke, mounted on the horizontal carriage and connected by one of its arms to the vertical carriage and by the other arm to the driving link producing the rectilinear displacement of the horizontal carriage on the fixed guide,—means for producing the vertical displacement of the vertical carriage and of the tool at the beginning of the return stroke and at the beginning of the forward stroke of the horizontal carriage.

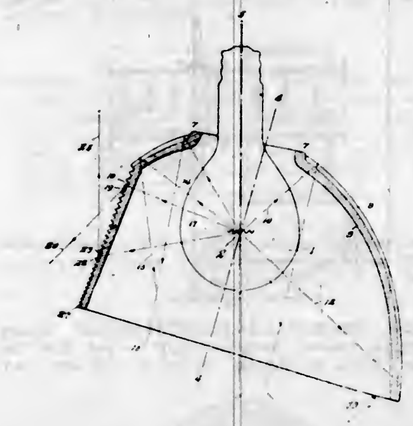
1,426,279. PROCESS FOR MAKING AXLES FOR MOTOR-DRIVEN ROAD VEHICLES. CHARLES WILLIAM DAVIS, Kirkstall Forge, near Leeds, England, assignor of three-fourths to Hugh Myddleton Butler, Kirkstall Forge, near Leeds, England. Filed Nov. 21, 1918. Serial No. 263,572. 2 Claims. (Cl. 74—56.)



1. That process of making an axle housing which consists in drop-forging a suitable billet of metal by pressing the central part of said billet between suitable dies to force same into a dish part leaving the ends of the billet extending laterally therefrom.

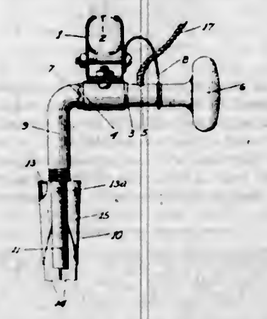
1,426,280. REFLECTOR. WILLIAM A. DOREY, Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y., a Corporation of New Jersey. Filed Mar. 24, 1920. Serial No. 368,360. 6 Claims. (Cl. 240—93.)

1. A reflector for artificial light sources casting the maximum intensity of the beam to one side of the lamp axis and having a portion of the reflector wall displaced by a transmitting screen on the side towards the beam such screen acting through a greater angle than the re-



flector wall displaced and having a conformation adapted to deflect the light rays from the source out of an extended field of view.

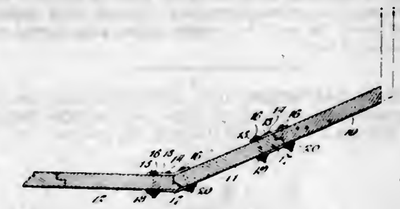
1,426,281. DIRECTION SIGNAL FOR AUTOMOBILES. CAMILLE DUBEAULT, Chico, Calif. Filed Aug. 3, 1921. Serial No. 489,532. 3 Claims. (Cl. 116—54.)



1. A direction signal including a substantially horizontal sleeve adapted to be secured to a windshield, a shaft slidably and turnably mounted in the sleeve, a handle on the shaft to the rear of the sleeve, a right-angle bend on the shaft ahead of the sleeve, notches cut in the sleeve at that end thereof, a member on the corresponding end of the shaft for engagement with any of said notches, and spring means acting on the shaft to hold said member in engagement with any of said notches at a time.

1,426,282. SAFETY LOCK FOR AUTOMOBILE FOOTBOARDS. ADELARD JOSEPH DUBEE, Glens Falls, N. Y. Filed Feb. 25, 1921. Serial No. 447,714. 4 Claims. (Cl. 296—1.)

4. In a device of the class described, the combination with the removable sections of an automobile footboard, of a plurality of retaining members each having one end fixedly secured to the lower surfaces of one of said sections and each formed with a hole near one end and a slot in the opposite end, a plurality of retaining members pivotally secured to the upper surfaces of said sections and having oppositely opening slots at opposite ends adapted to be brought into registry with the aforesaid holes and slots in the lower retaining members, bolts



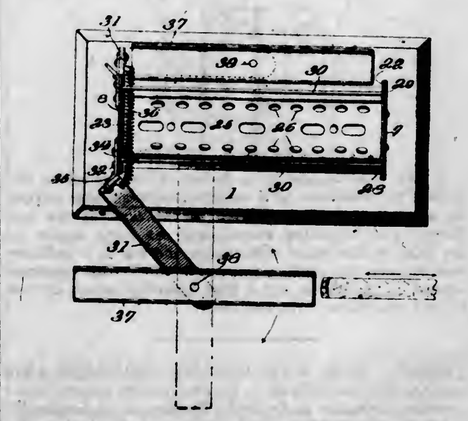
adapted to pass through registering holes and slots for securing said sections in place, and nuts for said bolts having means for securing them against loss.

1,426,283. ARTIFICIAL BAIT. WALTER SCOTT EWERT, Los Angeles, Calif. Filed Dec. 16, 1919, Serial No. 345,262. Renewed Dec. 24, 1921. Serial No. 524,740. 1 Claim. (Cl. 43—46.)



An artificial bait comprising a fish like body provided with paddle wheels mounted, one on each side thereof, to rotate in the longitudinal direction of said body, the axes of said wheels being in the same plane, said plane being on the transverse center but slightly below the longitudinal center of the body the inner edges of said wheels lying in planes parallel with the longitudinal axis and outside of the widest portion of said body; line attaching means at one end and a hook at the other end of said body.

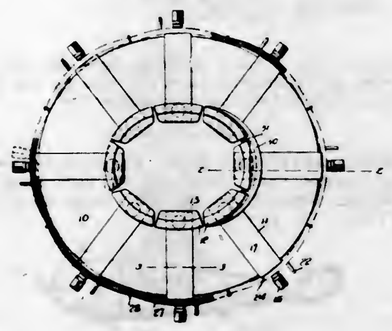
1,426,284. ELECTRIC TOASTER. MAURICE F. FITZGERALD, Winsted, Conn., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed Jan. 13, 1921. Serial No. 436,928. 3 Claims. (Cl. 53—5.)



1. In a toaster, a support including spaced end plates, means for supporting therebetween a source of radiant heat, a substantially U-shaped bracket vertically pivoted to one of said end plates and adapted to swing out-

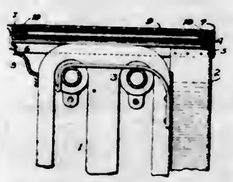
wardly away from said source of heat, a slice holder mounted on a vertical axis on the free ends of said bracket, a turning knob on said pivot whereby said bracket may be swung outwardly and the slice holder rotated about its pivot to present either side thereof to the source of heat.

1,426,285. HAT STRETCHER AND SHAPER. DAVID FREEDLINE, Brooklyn, N. Y. Filed June 9, 1921. Serial No. 476,269. 7 Claims. (Cl. 223—33.)



1. A hat stretcher and shaper including a series of individual stretching and shaping elements, and screws on which said elements are mounted, said screws being adapted to have relative approximately radial movement and being angularly adjustable individually to vary the angular positions of said elements.

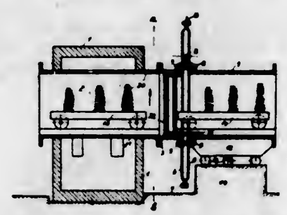
1,426,286. AIR MOISTENER AND DUST ARRESTER. MYERS A. GARRETT, Chicago, Ill., assignor to Carlton M. Garrett, Chicago, Ill. Filed Apr. 4, 1921. Serial No. 458,363. 4 Claims. (Cl. 237—78.)



2. The combination in a device of the character described for radiators, of a tank for holding water having an open top, a frame secured to the tank at the top thereof and extending substantially at right angles to the tank so the frame will engage the top of a radiator and support the tank, a removable cover with openings carried by the frame, and a dust arresting means carried by and removable with the cover.

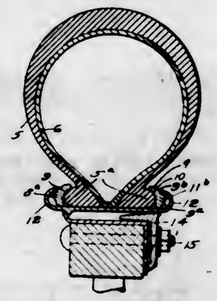
1,426,287. KILN WITH HEATING CHAMBERS AND COOLING CHAMBERS. VICTOR GELPKE, Lusern, Switzerland, assignor to Deutsche Evaporator-Aktien-Gesellschaft, Berlin-Wilmersdorf, Germany. Filed Mar. 16, 1921. Serial No. 452,827. 2 Claims. (Cl. 263—28.)

1. A kiln, comprising, in combination, a furnace, a heating-chamber, a cooling-chamber, and a compensating-member arranged between said chambers; said member consisting of two sheet-metal plates arranged in an appropriate distance one from the other, and gas-tight



connections between said plates, as well as between them and the structure-components with which they are connected.

1,426,288. SECTIONAL DEMOUNTABLE RIM. ELMER WILLIAM GINZEL, Redlands, Calif. Filed Mar. 30, 1921. Serial No. 457,006. 2 Claims. (Cl. 301—30.)



1. A rim of the character described comprising a pair of rings adapted to engage the opposite sides of the tire at the inner edge thereof, said rings having outwardly flaring outer side walls, a plurality of rim sections having inturned portions at their opposite edges adapted to ride upwardly over said flaring walls of the rings and to engage with said rings above said flaring portions.

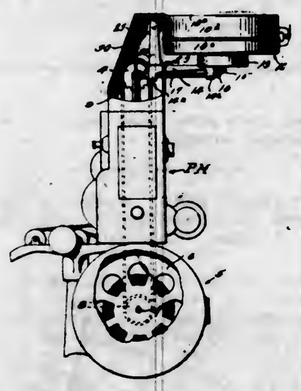
1,426,289. COBBLING OUTFIT. CHARLES L. GLAPCKE, Michigan City, Ind. Filed Apr. 18, 1919. Serial No. 290,934. 5 Claims. (Cl. 12—123.)



1. A cobbling outfit comprising a support; a last on said support; a head freely slidable on said support;

means for automatically securing said head in adjusted positions on said support; and a flexible binding loop secured to said head and passing around said last, substantially as described.

1,426,290. APPARATUS FOR UNWINDING MOTION-PICTURE FILMS. CHRISTIAN M. GOTTSCHAU, Denver, Colo., assignor, by mesne assignments, to Automatic Non-Rewinding Reel Company, a Corporation of Delaware. Filed Dec. 4, 1920. Serial No. 428,251. Renewed May 24, 1922. Serial No. 563,367. 1 Claim. (Cl. 88—18.7.)



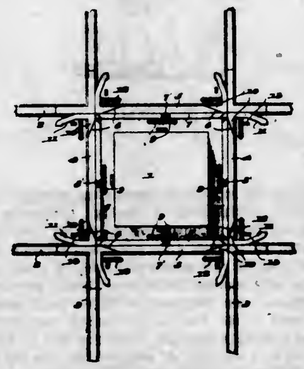
A film feeding attachment for Simplex motion picture machines comprising a bracket for mounting on the casing of the machine and having longitudinally spaced bearings, a shaft mounted in said bearings and projecting at opposite ends beyond said bearings and having a sprocket wheel on one end and a bevelled cog on the other, an arm extending laterally from said bracket and having depending longitudinally spaced bearings arranged in a plane at right angles to said first mentioned bearings, a shaft mounted in said bearings with bevelled cogs at its ends, one meshing with that of the first mentioned shaft, a feeding film casing carried by said bracket arm, a spindle extending through and rotating in the bottom of said casing and having a cog on its lower end meshing with one of the cogs on said second mentioned shaft, a roll holder carried by the inner end of said spindle within said casing, a film receiving roll holder, and a connection between said holder and said sprocket wheel to cause said holders to move in unison, and actuating means for said holders.

1,426,291. BOOK. JAMES G. HALL, Burlingame, Calif. Filed Jan. 16, 1922. Serial No. 529,547. 1 Claim. (Cl. 281—2.)



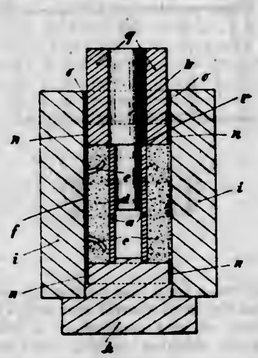
A book consisting of a sheet divided vertically into a plurality of sections connected at their opposite ends, each of said sections being folded transversely to provide a plurality of outwardly extended hinged leaves, said sections being centrally creased vertically through said leaves to provide half portions adapted to fold face to face, said section connecting portions of the sheet being vertically creased to permit corresponding half portions of adjacent sections to fold back to back, and a cover to which the terminal end portions of the top and bottom of said sheet are attached.

1,426,292. RAILWAY CROSSING. JAMES HARRIS HARDY, Crawford, Miss. Filed July 14, 1921. Serial No. 484,652. 6 Claims. (Cl. 246—273.)



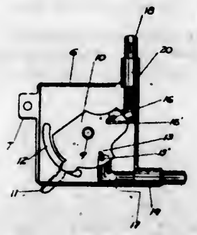
1. In a railroad crossing-rail, each comprising a central stationary section, longitudinally movable guard-rail sections resiliently held against the stationary rail sections, each being provided with members arranged in alignment with the oppositely disposed stationary rail sections, said guard-rail sections adapted to be moved laterally by the wheels of the moving train.

1,426,293. METHOD OF MANUFACTURING ELECTRICAL COLLECTORS, COMMUTATORS, CONTROLLERS, OR INTERRUPTERS, OR EQUIVALENT DEVICES. HENRI HERRMANN, Paris, France. Filed July 14, 1920. Serial No. 396,287. 4 Claims. (Cl. 171—321.)



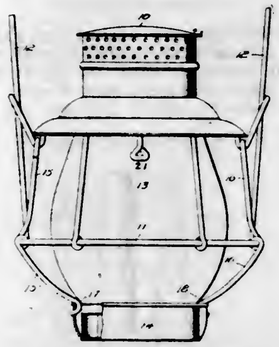
1. The method of manufacturing a commutator, which comprises longitudinally slotting a metal cylinder between its ends to form a series of spaced strips, mounting the slotted cylinder in a cylindrical mould, mounting a cylindrical hub concentrically within the slotted cylinder, and introducing heated insulating material between the cylinder and hub under sufficient pressure to compress the insulating material between the strips of the cylinder and against the mould.

1,426,294. WINDOW LOCK. WILLIAM E. HUBER, Chicago, Ill. Filed Feb. 9, 1920. Serial No. 357,287. 2 Claims. (Cl. 292—40.)



1. A device for locking co-operating window sashes in fixed relation, comprising a casing; plungers slidably mounted in knuckles formed on said casing; said plungers being adapted to project into openings formed in one of said sashes and in the window frame; a plate pivotally mounted on said casing, said plate being provided with slots; studs on the inturned ends of said plungers to engage in said slots; and an operating member integral with and extending vertically from one end of said plate, through a slot in the top of said casing, thence laterally over said casing, substantially as described.

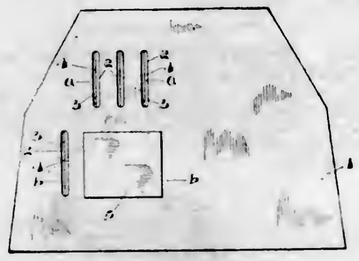
1,426,295. LANTERN CONSTRUCTION. JOSEPH J. HUGHES, Memphis, Tenn. Filed Sept. 12, 1921. Serial No. 500,183. 3 Claims. (Cl. 240—40.)



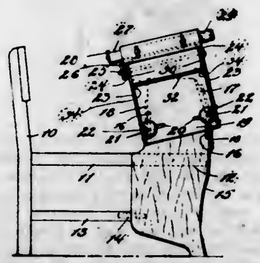
1. In a lantern, a lamp base hoving depressions formed in the vertical side wall thereof and slotways formed in the outer walls of said depressions, a globe retaining frame detachably mounted on said base, means carried by said frame for interlocking engagement with slotways of said base, and a globe removably positioned within said frame and cooperative with said means whereby to prevent the accidental separation of said frame from said base.

1,426,296. RUBBER MAT. JAMES H. S. KERR, Toronto, Ontario, Canada. Filed May 14, 1921. Serial No. 470,819. 9 Claims. (Cl. 74—81.)

1. A mat, having an opening therein, constructed of low grade rubber, said opening being closed with a portion of high grade rubber having a slit therein, said portion of high grade rubber being secured to the mat to form an integral structure.



1,426,297. CHAIR DESK. HERBERT E. KINCHELOE, Maplewood, Mo. Filed Mar. 5, 1921. Serial No. 449,860. 3 Claims. (Cl. 155—128.)



1. In a device of the class described, a leg having a bolt opening therein, a fitting having a bolt opening therein disposed at an angle relative to the bolt opening in the leg, means extended through said openings for clamping the fitting to the leg, a bearing carried by the fitting, a slotted sill and means for pivotally securing the sill to said bearing.

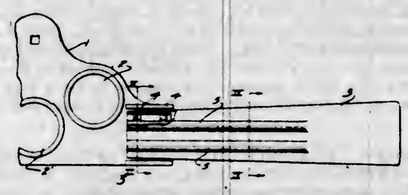
1,426,298. METHOD OF RENDERING ANIMAL AND VEGETABLE FIBERS ACTIVE. JOHANNES KORSELT, Zittau, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Oct. 24, 1917. Serial No. 198,337. 13 Claims. (Cl. 8—5.)

2. The process of increasing the strength, elasticity and absorbent power of textiles, which comprises treating said textiles in a bath containing an oxidase and a substance capable of favorably influencing the action of the oxidase.

1,426,299. MULTICOLOR PRINTING. FELIX KUNERT and EDWIN ACKER, Offenbach-on-the-Main, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Nov. 2, 1916. Serial No. 129,115. 5 Claims. (Cl. 8—5.)

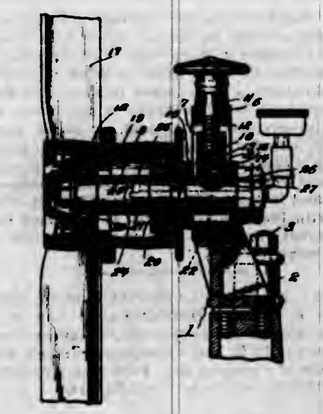
1. The process of multi-color printing with mixtures of nitrosamines and naphthols upon white goods, comprising printing on said goods with nitrosamine printing colors to which have been added metallic salts which form color lakes uninfluenced by steaming and subsequently developing in a bath containing an organic acid having two atoms of carbon in its molecule.

1,426,300. SEMAPHORE BLADE. FREDERICK C. LAVARACK, Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 30, 1921. Serial No. 456,887. 21 Claims. (Cl. 246—482.)



4. As a new article of manufacture, a semaphore blade constructed entirely of a single sheet of metal having at one end means for attachment, including a portion substantially parallel to the face of the blade and a portion connecting said first named portion and the body of the blade.

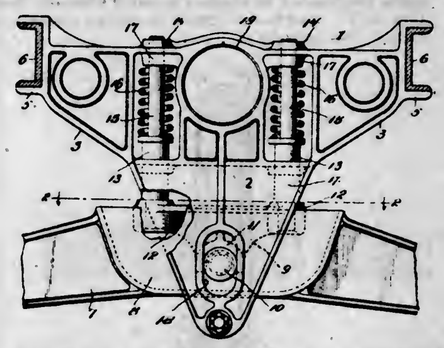
1,426,301. FAN MOUNTING FOR MOTOR VEHICLES. ALFONSO M. LEONI, Philadelphia, Pa., assignor, by mesne assignments, to Steinmetz Electric Motor Car Corporation, Baltimore, Md., a Corporation of Maryland. Filed Oct. 9, 1919. Serial No. 329,582. 2 Claims. (Cl. 64—52.)



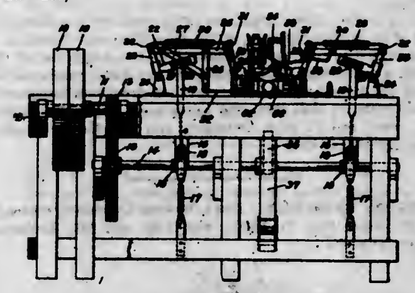
1. A fan mounting comprising a yoke, a carrier slidable therein, means for adjusting the carrier with respect to the yoke, a fan shaft mounted in the carrier, means for moving the fan shaft relatively to the carrier, and means operative in such movement of the fan shaft to secure the carrier against movement in the yoke.

1,426,302. FRONT-AXLE CONSTRUCTION. ALFONSO M. LEONI, Philadelphia, Pa., assignor, by mesne assignments, to Steinmetz Electric Motor Car Corporation, Baltimore, Md., a Corporation of Maryland. Filed Nov. 25, 1919. Serial No. 340,550. 2 Claims. (Cl. 280—112.)

1. A motor vehicle frame suspension, comprising a cross-frame secured to the vehicle frame, a pedestal base pivotally supported in a recess in the front axle, bolts carried by said base and extending through the cross-frame, and spring means to resist the movement of said bolts.



1,426,303. MACHINE FOR CLEANING ROVING BOBBINS. JOSEPH A. LONSO, Fitchburg, Mass. Filed Feb. 17, 1921. Serial No. 445,610. 10 Claims. (Cl. 28—20.)



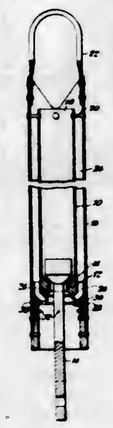
1. In a machine for cleaning bobbins, the combination with a plurality of pairs of jaws arranged in a series, one pair adapted to engage a bobbin near one end, another pair near the other end and the others at several points along it and to hold it against side motion at both ends, and yielding means for forcing them toward each other to grip the bobbin, of a horizontal pusher rod, and means for forcing said rod horizontally against the end of a bobbin held by said jaws to push it through them and eject it therefrom.

1,426,304. CRATE FOR MILK BOTTLES. WILLIAM LYNCH, Brooklyn, N. Y. Filed Nov. 3, 1921. Serial No. 512,508. 4 Claims. (Cl. 217—20.)



1. In a crate, a supporting member, said supporting member being crimped to provide depressed portions arranged in spaced pairs, the legs of each of said depressed portions being of different angles.

1,426,305. BAILER. GEORGE BAN MCDONELL and EDWARD LAWRENCE PECK, Bartlesville, Okla., assignors, by mesne assignments, to Doherty Research Company, New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,367. 3 Claims. (Cl. 166—19.)
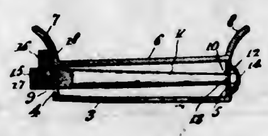


1. A bailer comprising, an outer shell of substantially the same shape and area as the bore of a well in which it it to be used, a lifting attachment at the upper end of the shell, a container of approximately the same length as the shell positioned within said shell to provide a peripheral space between said shell and container, a valve for closing the lower end of said container, and a valve for closing said peripheral space.

1,426,306. STOPPER. JOHN MCFADDEN, South Chicago, Ill. Filed Aug. 31, 1920. Serial No. 407,147. 1 Claim. (Cl. 215—52.)



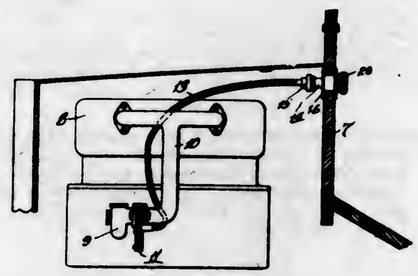
A stopper comprising a cylindrical rubber body having an opening extending axially therethrough, an eye bolt passing through said opening, a cup washer arranged under the eye of the bolt and having its marginal edge engaging the top of the body, and a disc engaging the under surface of the body and having a cylindrical extension threaded on the bolt and positioned between the bolt and the wall of said opening.

1,426,307. RIM-LOCKING ATTACHMENT. WILLIAM H. MCGOWEN, Vincennes, Ind. Filed Mar. 5, 1921. Serial No. 449,604. 1 Claim. (Cl. 301—29.)



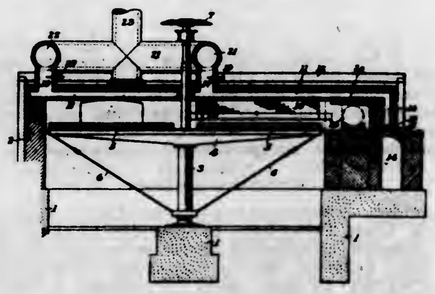
In combination with a vehicle wheel having a felly of channel construction provided with an outer flange and an inner flange, said inner flange being of greater height than the outer flange, a demountable rim having flanges adapted to register with the outer edges of the flanges of said felly, a plurality of tapering bolts journaled to rotate in the flanges of said felly, means for permanently holding said tapering bolts in said flanges, the outer ends of the bolts projecting beyond the outer flange of the felly and provided with nut heads thereon, lugs made integral with the bolts inwardly of the nut heads and provided with cammed inner faces for engaging the outer flange of the demountable rim, the lugs being provided with removed portions adapted to permit of the passage thereover of the demountable rim, the edge of said lugs being provided with a series of notches at one side and with recesses at the opposite side, and a yieldable dog adapted to enter said recesses and a selective notch, substantially as described.

1,426,308. MANIFOLD LOCK FOR INTERNAL-COMBUSTION ENGINES. HENRY P. MALONEY, St. Louis, Mo., assignor of one-half to Harry Harris, St. Louis, Mo. Filed Feb. 8, 1919. Serial No. 275,729. 2 Claims. (Cl. 70—91.)



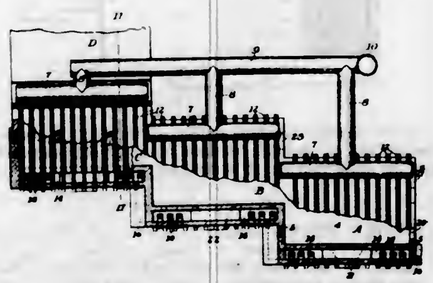
1. A manifold lock for internal combustion engines comprising a sleeve, an annular flange formed on one end thereof, a cylindrical flange formed on the annular flange and concentric with said sleeve, a shank rotatably mounted in said sleeve, a knob formed integral with said shank, a key operated barrel mounted in said knob, a pair of levers pivotally attached to said key barrel, spring actuated pins attached to the levers, openings formed in the shank, said openings adapted to permit the passage of the pins therethrough, a plurality of radially disposed openings formed in the cylindrical flange, said openings registering with the openings formed in the shank and adapted to permit the entrance of the pins to lock the knob against rotation.

1,426,309. MUFFLE-FLATTENING OVEN AND LEER. EDWIN E. MILNER, Scott Township, and WILLIAM J. LYTLE, Rosslyn Farms Borough, Allegheny County, Pa., assignors to H. L. Dixon Company, Carnegie, Pa., a Corporation of Pennsylvania. Filed Aug. 12, 1921. Serial No. 491,701. 18 Claims. (Cl. 49—44.)



18. A flattening oven comprising a flattening stone, a chamber above said stone, a plurality of flues in the top wall of said chamber, an off-take at one end of each of said flues and an off-take for each of said flues intermediate its ends, and means for regulating the flow of gases in said off-takes.

1,426,310. PLATE-GLASS ANNEALING LEER. EDWIN E. MILNER, Scott Township,, and WILLIAM J. LYTLE, Rosslyn Farms Borough, Allegheny County, Pa., assignors to H. L. Dixon Company, Carnegie, Pa., a Corporation of Pennsylvania. Filed Aug. 16, 1921. Serial No. 492,660. 8 Claims. (Cl. 49—46.)



8. A plate glass annealing leer having a plurality of muffle heating chambers arranged zig-zag with respect to each other, a plurality of heating flues in the top wall of each of said chambers, means for producing combustion for each of said flues, means common to all of said combustion producing means in the side wall of each of said chambers, and offtake means for each of said flues, and means for connecting all of said offtakes together, substantially as described.

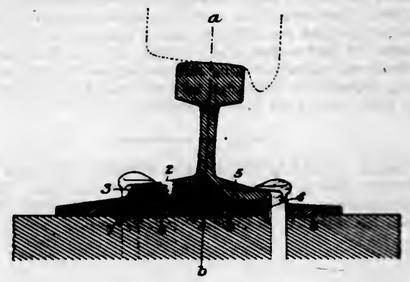
1,426,311. METHOD OF SOLDERING. JOSEPH MORRAU, Chicago, Ill., assignor to Perry N. Nelson, Chicago, Ill. Filed Apr. 15, 1921. Serial No. 461,672. 4 Claims. (Cl. 219—12.)



1. The herein described method of uniting the ends of a work-piece to form a continuous element, which consists in depositing solder on the work-piece where the joint is to be made, engaging the work-piece at that point with a high resistance electrode, and completing the circuit by engaging a low resistance electrode with the work-piece adjacent the solder, whereby heating of the work-piece is localized at the joint.

1,426,312. TIE PLATE. ANDREW MORRISON, Penn Township, Allegheny County, Pa., assignor to Dilworth, Porter & Co., Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 29, 1921. Serial No. 518,499. 7 Claims. (Cl. 238—298.)

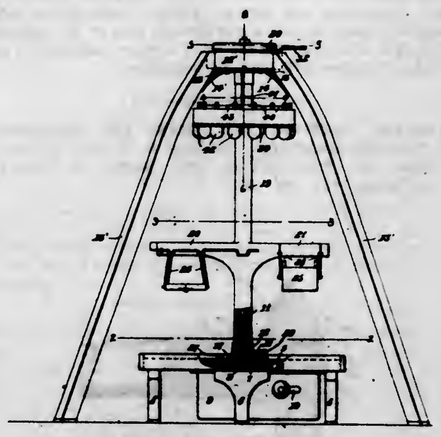
1. A tie plate for railway rails, having an upper rail seat substantially normal to the line of thrust of a standard coned tread car wheel and having a series of wide lower bearing surfaces upwardly and inwardly inclined at an oblique angle to the rail seat, said upwardly inclined surfaces being connected by projecting ribs, substantially as described.



1,426,313. PROCESS FOR THE PREPARATION OF DINITROGLYCOL AND ITS HOMOLOGUES. HERMANN OEHME, Cologne-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed June 27, 1919. Serial No. 307,234. 4 Claims. (Cl. 260—144.)

1. A process for the preparation of dinitroglycol and its homologues consisting in treating the nitrated product obtained by the action of a nitrating acid on an unsaturated hydrocarbon with an alkali metal carbonate.

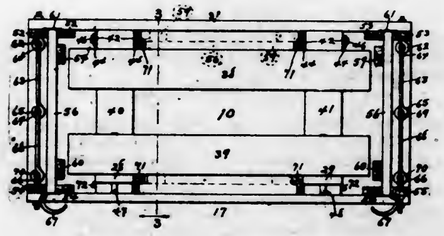
1,426,314. ROUNDABOUT. WALTER PASTUSZAK, Fairmont, W. Va., assignor of one-half to Frank Szulc, Fairmont, W. Va. Filed Dec. 10, 1921. Serial No. 521,519. 5 Claims. (Cl. 46—27.)



1. In a roundabout of the class described, a platform having supporting legs and provided with a central opening, a motor having a power shaft projecting vertically through said opening of the platform, a second shaft arranged in a vertical position and having its lower end rigidly connected to the upper end of said power shaft, a tripod for steadying the second named shaft including a plate member through which said shaft is rotatably mounted and which is provided with supporting legs, a hollow standard through which the second named shaft projects,

means connecting said standard with said power shaft whereby the same will be caused to rotate in unison, radially projecting arms rigid with the intermediate portion of said standard, a car suspended from one of said arms, a yieldably suspended baby jumper seat associated with the other arm, a pick depending from and fastened to the plate member of said tripod, and a hollow musical instrument body having radial sounding strings disposed to be successively engaged by said pick as said standard is rotated, said body being fixed to said standard.

1,426,315. COLLAPSIBLE HOG CRATE. WILLIAM E. PETTY, Storm Lake, Iowa, assignor to Jens Peter Christiensen, Newell, Iowa. Filed Aug. 25, 1920. Serial No. 405,791. 9 Claims. (Cl. 217—47.)



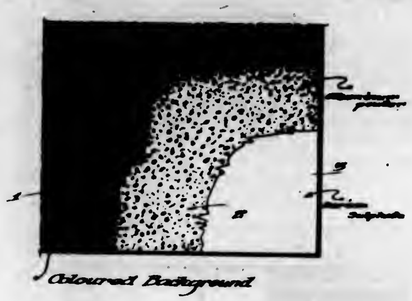
1. A collapsible crate having a solid bottom member, slatted side members hinged to the bottom member and adapted to form box-angles therewith, a cover member of less length than the bottom and side members hinged to one side member and slidingly engaging the other side member, jointed tie-rods parallel with each other connecting the side members and end-gates removably and replaceably and slidingly mounted between the side members and also in a plane between that of the tie-rods and that of the ends of the cover member and adapted to form box-angles with the bottom member.

1,426,316. METHOD AND MEANS FOR SECURING WOODEN HANDLES. FAYETTE R. PLUMB, Philadelphia, Pa. Filed Oct. 6, 1921. Serial No. 505,871. 4 Claims. (Cl. 306—33.)



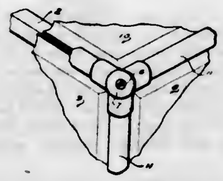
1. The method of tightening a wooden shaft in the socket of a tool head or the like which consists in driving into the end of the shaft within the socket, a wooden wedge having a dried and hardened coating of cement that softens when heated.

1,426,317. CINEMATOGRAPHIC SCREEN. JULIAN MACARTNEY OGILVIE, London, England. Filed Aug. 22, 1921. Serial No. 494,358. 4 Claims. (Cl. 88—24.)



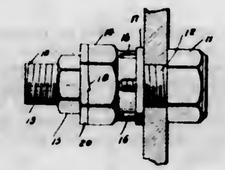
1. A cinematographic screen comprising a colored background, a metallic surface of powdered aluminum, and an outer coating of barium sulphate.

1,426,318. FRAME AND CASING FOR WASHING MACHINES. JOSEPH S. POWER, Dayton, Ohio, assignor to The Davis Sewing Machine Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 24, 1921. Serial No. 455,270. 3 Claims. (Cl. 220—80.)



3. A casing comprising a plurality of walls, an inner frame composed of angle bars whose ends abut, one bar being located at each corner and fitted against the adjacent walls, an outer frame composed of circular corner strips, one strip being located at each corner and fitted against the outer surface of the adjacent walls, a three armed corner fastening engaging three of the corner strips, a plate within the abutting ends of the angular bars, and a screw connecting each plate to a corner fastening.

1,426,319. NUT LOCK. TULLUS A. RANDALS, Pecos, Tex. Filed Mar. 17, 1921. Serial No. 452,920. 1 Claim. (Cl. 151—16.)



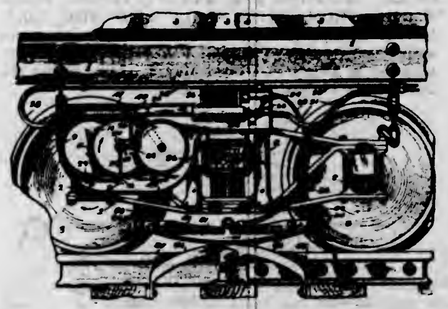
A nut lock including a bolt having right and left hand screw threaded portions, nuts threaded on said portions, washers of soft material on said bolt between the nuts and between the end of one nut and the object to which the bolt is applied, and spaced projections formed on both ends of one nut and on one end of the other nut and adapted to bite into said washers when the nuts are turned towards each other.

1,426,320. HOLDER FOR SCREWS, NAILS, AND THE LIKE. ALFRED J. REID, San Francisco, Calif., assignor of one-half to Peter M. Savage, San Francisco, Calif. Filed Nov. 28, 1921. Serial No. 518,233. 2 Claims. (Cl. 145—52.)



2. An attachment for tools of the type disclosed, comprising a rectangular sleeve formed of rigid material, a pair of spring leaves arranged within the sleeve and connected to the walls thereof intermediate their ends, one end of each of the leaves projecting out from the sleeve and forming jaws to grip the tool near the inner end thereof and the other end of each of the leaves lying within the sleeve and forming jaws to grip the tool near the outer end thereof, and a second and separate pair of spring leaves arranged within the sleeve and secured at their inner ends to the walls thereof, said last-named springs extending out from the sleeve and forming at their free ends a pair of jaws to receive a screw or the like.

1,426,321. AUTOMATIC TRAIN STOP. THOMAS M. RIGGLE, Oakland, Calif., assignor of one-eighth to Lida E. Riggle, Oakland, Calif. Filed Sept. 4, 1920. Serial No. 408,365. 12 Claims. (Cl. 246—183.)

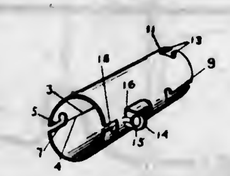


1. An automatic train stop comprising an actuating means for engaging and actuating the brake valve of a standard air brake system to stop a train; controlling means for controlling the actuating means for actuating the valve; and retarding means actuated by movement of said train for retarding the action of the controlling means whereby said controlling means may be operated at the ends of predetermined distances travelled by the train.

1,426,322. PROCESS FOR TANNING WITH IRON SALTS. OTTO RÖHM, Darmstadt, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed June 13, 1917. Serial No. 174,643. 4 Claims. (Cl. 149—5.)

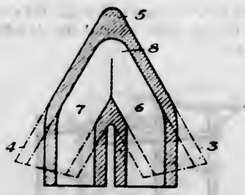
1. The process of tanning consisting in subjecting the leather to the action of iron salts, then treating the same with a neutralising agent without rendering the grain of the leather brittle, and finally subjecting the leather thus treated to the action of formate of iron.

1,426,323. CONNECTOR. HERMAN R. SAXON, Toledo, Ohio, assignor, by mesne assignments, to Electric Auto-Lite Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Mar. 10, 1916. Serial No. 83,314. 2 Claims. (Cl. 173—328.)



1. A connector comprising a cylindrical shell having a pair of bayonet slots in each end of the shell, a longitudinal slit connecting the bottom portions of one of each pair of said bayonet slots and a lug integral with said tube projecting outwardly at right angles thereto and spaced from said slit, said shell being adapted to receive a terminal supporting member and a lamp, and being adapted to be moved longitudinally by said lug to focus the lamp.

1,426,324. METHOD OF MAKING RETURN L'S. EDWIN E. SLICK, Johnstown, Pa. Filed Sept. 26, 1919. Serial No. 326,624. 4 Claims. (Cl. 29—157.6.)



1. The method of making return L's, which consists in forming a V-shaped blank, piercing the legs of the V-shaped blank to form a V-shaped passage therethrough, and bending the legs of the V parallel, substantially as described.

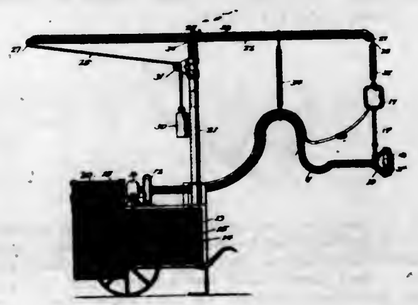
1,426,325. AIR COMPRESSOR. JOSEPH STANIS, Riverton, Ill. Filed July 11, 1921. Serial No. 484,007. 2 Claims. (Cl. 230—27.)



1. In an apparatus of the class described the combination of a propellible vehicle having a rotative axle; a sprocket wheel fixed on said axle; a double series of compression cylinders on said vehicle; pistons sliding in the respective cylinders; a rotative main drive shaft in

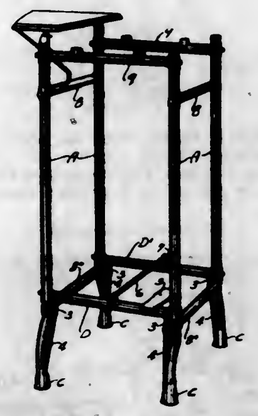
operative relation to said cylinders; a sprocket wheel loose on said shaft; a sliding clutch-member rotating with said shaft and engaging said loose sprocket wheel; piston-operating devices actuated by said main drive shaft; a drive chain connecting the sprocket wheel on the axle with the sprocket wheel on the main drive shaft; and spring-controlled sheaves pulling on the upward run and on the downward run of drive chain to maintain uniform tension of the chain.

1,426,326. COTTON-PICKER SUCTION NOZZLE. LOUIS CARROLL STUKENBORG, Chicago, Ill., assignor to Frederick W. Stukenborg, Chicago, Ill. Filed Apr. 14, 1919. Serial No. 290,031. 12 Claims. (Cl. 56—32.)



1. A cotton picking and conveying device comprising, in combination with a suction tube, a picker nozzle having a receiving mouth provided with a series of rotative picker elements disposed radially about the axis of said nozzle, driving gears for the picker elements, and casings enclosing said gears.

1,426,327. STAND. HIERO GILLAS TIFFANY, St. Louis, Mo. Filed Oct. 4, 1920. Serial No. 414,585. 2 Claims. (Cl. 280—44.)



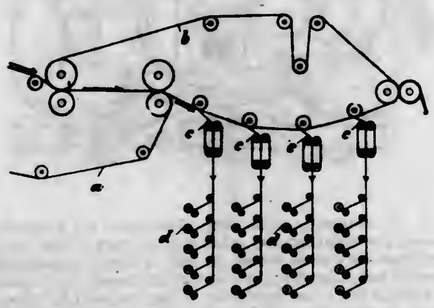
1. A stand provided with legs equipped with rollers, a tubular member arranged in telescopic relation with the lower end portion of each leg and adapted to be moved downwardly into engagement with the floor so as to elevate the leg and the roller thereon, a pair of horizontally-disposed rock shafts carried by said legs, rigid arms on said shafts arranged adjacent the ends of same, each of said arms being adapted to co-operate with one of said tubular members, and links that join said arms to their co-operating tubular members.

1,426,328. STAND. HIERO G. TIFFANY, St. Louis, Mo., assignor to Simplex Steel Stamping & Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 23, 1921. Serial No. 446,997. 6 Claims. (Cl. 280—44.)



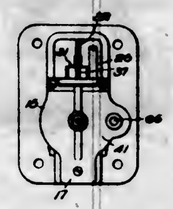
1. A stand provided with legs, supporting members arranged in telescopic relation with said legs, a pair of toggle links associated with each leg and supporting member and pivotally connected with same in such a manner that said links exert a downward thrust on said supporting members when the links are straightened, and an operating mechanism for said toggle links comprising an operating bar connected to each pair of toggle links and having its outer end projecting into an opening in the adjacent leg of the stand, whereby said bar is accurately guided.

1,426,329. MACHINE FOR MANUFACTURING FIBER STRIPS FROM PAPER PULP AND THE LIKE. GUSTAV TÜRK, Meisingen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 5, 1919. Serial No. 294,993. 4 Claims. (Cl. 92—39.)



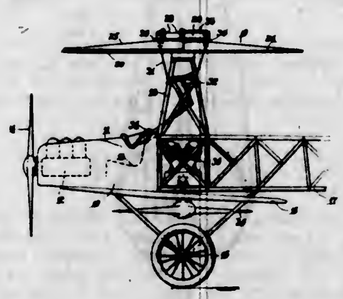
1. A machine for manufacturing fiber strips from paper pulp and the like comprising an endless sieve-band, and a felt-band in contact with the endless sieve-band and adapted to pick up fiber strips carried along by the sieve-band in combination with a number of delivering devices arranged in such manner as to pick up the fiber strips from the felt-band in separate groups.

1,426,330. MACHINE FOR ATTACHING LAUNDRY TAGS. GEORGE H. WILLIAMS, Boston, Mass., assignor to Boston Clip and Tag Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 17, 1920. Serial No. 374,566. 16 Claims. (Cl. 153—1.)



1. A machine of the class described comprising a clinching mechanism embodying an anvil and an opposed plunger, a magazine, a turret interposed between said clinching mechanism and magazine, a lever for operating the plunger and arms connected therewith for delivering tags from the magazine to the turret and from the turret to the anvil.

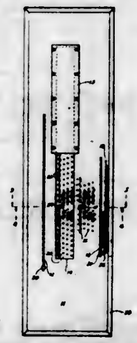
1,426,331. FALL-CHECKING DEVICE FOR AIRCRAFT. ALEXANDER ZEITLIN, New York, N. Y., assignor of one-fourth to Jack Heller, one-fourth to Joseph Rifkin, and one-fourth to Samuel Heller, all of New York, N. Y. Filed June 17, 1921. Serial No. 478,368. 4 Claims. (Cl. 244—19.)



1. In an air craft, a combination plane and parachute, comprising a stationary annular supporting frame, a relatively fixed semicircular solid disc portion carried by said frame, and additional solid disc portions slidably supported in said frame and movable relatively to the fixed portion.

1,426,332. COMPUTING DEVICE. NATHAN M. PURVIANCE, Lewiston, Idaho. Filed Mar. 10, 1921. Serial No. 451,285. 8 Claims. (Cl. 235—61.)

1. A computing device of the class described, comprising a housing provided with an opening in its front wall; slidable means mounted in said housing, including a member mounted beneath said opening and having means adjustably attached thereto; numbers on the rear faces of said members; means extending from one of said slidable



members adapted to engage said adjustable means and raise the slidable member attached thereto; and means displaying the result from said rear numbers.

1,426,333. SPARKING PLUG. WILLIAM ARTHUR JONES, Manchester, England, assignor to Sonje Limited, Manchester, England, a Company of the United Kingdom of Great Britain and Ireland. Filed Dec. 7, 1920. Serial No. 428,994. 3 Claims. (Cl. 123—169.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

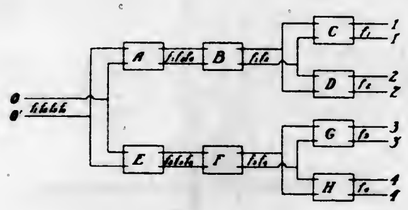


1. A sparking plug comprising an insulating body provided with an abutment, an electrode mounted in said body, a complementary electrode mounted on said body, a ring or washer of conducting material separate from the complementary electrode and tightly fitting on said body against said abutment and securing said complementary electrode to said body to form a unit therewith, an outer casing in which said insulating body is fitted and provided with an internal abutment against which said ring or washer bears, and means for securing said body on said casing.

1,426,334. SELECTIVE RECEPTION OF ALTERNATING CURRENTS. FREDERICK E. PEMOT and LESTER J. RICH, Washington, D. C. Filed Mar. 30, 1922. Serial No. 548,254. 1 Claim. (Cl. 178—44.)

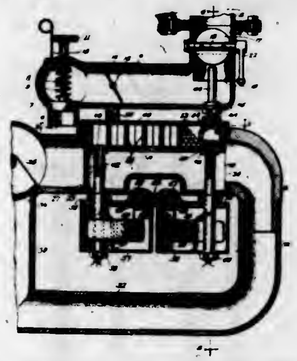
A system for the selective transmission of a plurality of currents of different frequency between a common

transmisson circuit and circuits individual to said frequencies, comprising a plurality of branches for said common circuit and sub-branches for each branch, selective suppressing devices for each frequeny comprising input and output circuits conjugate to one another as to a single frequency and connected into the branches and



sub-branches so as to provide for each frequency a single selective path extending from the common circuit to its individual circuit by way of a branch, a sub-branch and selective frequency devices for each of the other frequencies, whereby said other frequencies are individually and successively suppressed.

1,426,335. DUPLEX CARBURETOR. FRANK R. PERRY, Chicago, Ill., assignor, by mesne assignments, of one-half to Benjamin Motor Products Co., Detroit, Mich., a Corporation of Delaware. Filed Jan. 7, 1918. Serial No. 210,691. 1 Claim. (Cl. 261—18.)



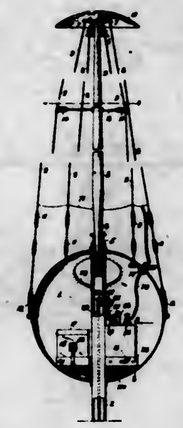
In a device of the kind described, a supply chamber to contain a heavy fuel, a supply chamber to contain a lighter fuel, means for producing a primary mixture of each of said fuels with a small quantity of air, a conduit for a heating medium arranged adjacent said supply chamber, a chamber providing an extended surface mounted in said conduit, an outlet connection from the supply chamber for the heavy fuel across said conduit to the inlet end of the heating chamber, an outlet connection from the supply chamber for the lighter fuel across said conduit to the outlet end of said chamber, a valve at said outlet to control the flow of mixture from the heating chamber or the light fuel supply chamber to the nozzle of a mixer, and means for supplying additional air to said mixer.

1,426,336. ROTOR FOR GYROSCOPES. ELMER A. SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 20, 1917. Serial No. 163,342. 31 Claims. (Cl. 74—78.)



1. A fly wheel comprising a hub portion having a resilient yielding periphery and a rim connected to said periphery whereby expansion of the rim will cause the periphery to follow.

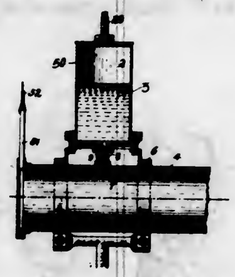
1,426,337. SIGNALING APPARATUS FOR DETECTING SUBMARINES. ELMER A. SPERRY, Brooklyn, N. Y. Filed July 9, 1917. Serial No. 179,586. 15 Claims. (Cl. 250—1.)



1. A signaling buoy comprising a body portion, means carried within said body portion for producing electrical oscillations and means for absorbing moisture within said body portion.

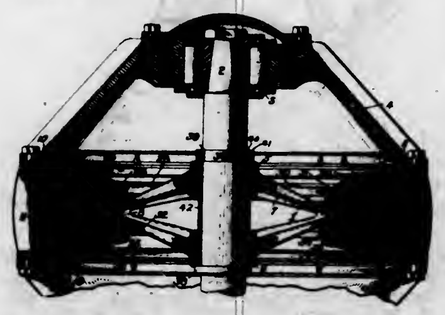
1,426,338. VISUAL SIGNALING MEANS. ELMER A. SPERRY, Brooklyn, N. Y. Filed July 9, 1917. Serial No. 179,587. 4 Claims. (Cl. 116—18.)

4. In a signaling means for aircraft, the combination with the exhaust pipe of the engine, of a container for a cloud-producing substance mounted adjacent thereto, a valve opening out of said container into said exhaust, said valve being sufficiently close to the exhaust to utilize the heat thereof to keep it substantially free of de-



posits, an opening for admitting air into said container, and means for preventing clogging of said opening.

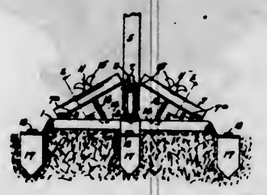
1,426,339. WIRE-WOUND GYRO ROTOR. ELMER A. SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 26, 1918. Serial No. 264,160. 9 Claims. (Cl. 74—78.)



1. In a fly wheel, a hub, a rim, means connecting said hub and said rim, said rim including a plurality of layers of wire, the tension of the layers varying in proportion to the forces they are called upon to withstand.

REISSUES.

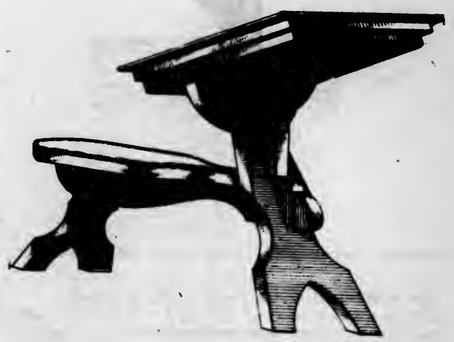
15,431. ADJUSTABLE HOLDER. ANDROV H. CARLSON, Bridgeport Conn., assignor to The Prestoy Manufacturing Company, Bridgeport, Conn. Filed Apr. 6, 1922. Serial No. 550,189. Original No. 1,335,724, dated Apr. 6, 1920, Serial No. 336,720, filed Nov. 8, 1919. 4 Claims. (Cl. 248—28.)



1. A metal holder of the character described, comprising two channel iron base plates, a centrally located bolt connecting the base plates, said bolt having a pointed end, means integral with one plate engaging the other plate to maintain the latter at right angles to the former, inclined side braces having openings at their outer ends, means integral with the base plates interlocking with said openings, bolts projecting through the base plates and side braces, means connected with said bolts to exert a downward pressure on the side braces, and springs adapted to exert an outward pressure on the braces when the downward pressure has been released.

DESIGNS.

61,355. DESK. CARL THOMAS ANDERSON, Madison, Wis. Filed Dec. 12, 1921. Serial No. 521,943. Term of patent 14 years.



The ornamental design for a desk substantially as shown.

61,356. BRUSH. DANIEL A. ANDREWS, Cedar Keys, Fla. Filed Apr. 8, 1922. Serial No. 1,651. Term of patent 7 years.



The ornamental design for a brush, as shown.

61,357. BRUSH. DANIEL A. ANDREWS, Cedar Keys, Fla. Filed Apr. 11, 1922. Serial No. 1,690. Term of patent 7 years.



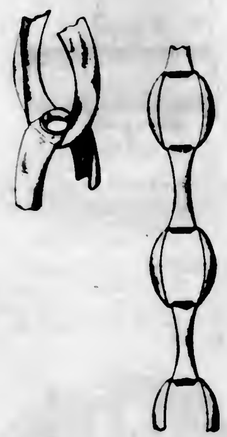
The ornamental design for a brush, as shown.

61,358. BRUSH. DANIEL A. ANDREWS, Cedar Keys, Fla. Filed Apr. 15, 1922. Serial No. 1,773. Term of patent 7 years.



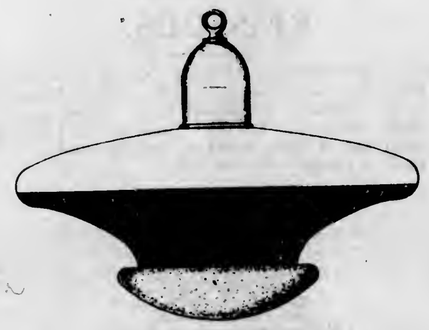
The ornamental design for a brush, as shown.

61,359. CHAIN. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1920. Serial No. 396,615. Term of patent 7 years.



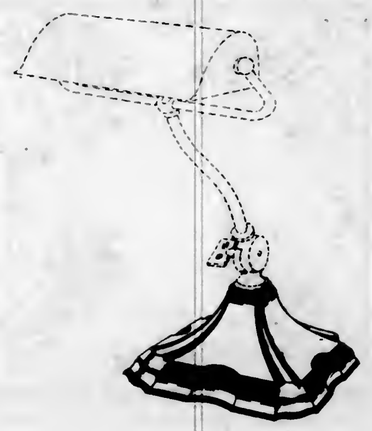
The ornamental design for a chain substantially as shown.

61,360. LIGHTING FIXTURE. WILLIAM T. BLACKWELL, Westfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Nov. 21, 1921. Serial No. 516,892. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

61,361. PORTABLE LAMP BASE. AUGUST BOSTROEM, New York, N. Y., assignor to Samuel Robert Schwartz, New York, N. Y. Filed Nov. 3, 1921. Serial No. 512,639. Term of patent 7 years.



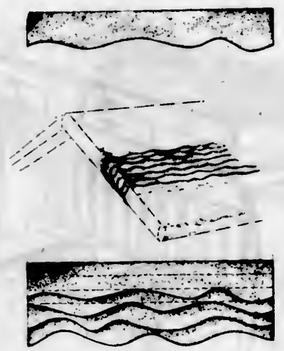
The ornamental design for a portable lamp base, as shown.

61,362. PORTABLE LAMP BASE. AUGUST BOSTROEM, New York, N. Y., assignor to Samuel Robert Schwartz, New York, N. Y. Filed Dec. 22, 1921. Serial No. 524,311. Term of patent 7 years.



The ornamental design for a portable lamp base, as shown.

61,363. ROOFING ELEMENT. NAASON Z. BUTTERICK, Jacksonville, Fla. Filed Mar. 20, 1922. Serial No. 1,262. Term of patent 14 years.



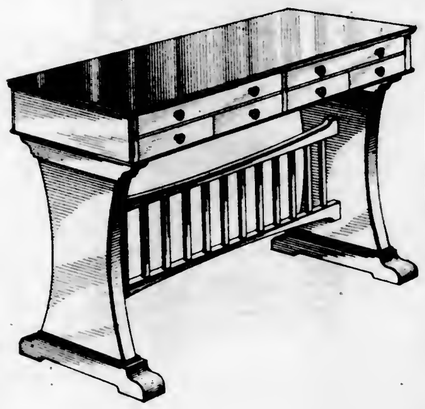
The ornamental design for a roofing element, as shown.

61,364. CABINET. HARRY C. GOWRAN, Two Rivers, Wis., assignor to The Hamilton Manufacturing Company, Two Rivers, Wis., a Corporation of Wisconsin. Filed Dec. 27, 1921. Serial No. 525,272. Term of patent 14 years.



The ornamental design for a cabinet, as shown.

61,365. TABLE. HARRY C. GOWRAN, Two Rivers, Wis., assignor to The Hamilton Manufacturing Company, Two Rivers, Wis., a Corporation of Wisconsin. Filed Dec. 27, 1921. Serial No. 525,273. Term of patent 14 years.



The ornamental design for a table, as shown.

61,366. HANDKERCHIEF, NAPKIN, OR SIMILAR ARTICLE OF MANUFACTURE. JAMES HARDEN, New York, N. Y., assignor to The Acheson Harden Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1921. Serial No. 515,967. Term of patent 7 years.



The ornamental design for a handkerchief, napkin, or similar article of manufacture substantially as shown and described.

61,367. HANDKERCHIEF, NAPKIN, OR SIMILAR ARTICLE OF MANUFACTURE. JAMES HARDEN, New York, N. Y., assignor to The Acheson Harden Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1921. Serial No. 515,968. Term of patent 7 years.



The ornamental design for a handkerchief, napkin, or similar article of manufacture substantially as shown and described.

61,368. HANDKERCHIEF, NAPKIN, OR SIMILAR ARTICLE OF MANUFACTURE. JAMES HARDEN, New York, N. Y., assignor to The Acheson Harden Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1921. Serial No. 515,969. Term of patent 7 years.



The ornamental design for a handkerchief, napkin, or similar article of manufacture substantially as shown and described.

61,369. HANDKERCHIEF, NAPKIN, OR SIMILAR ARTICLE OF MANUFACTURE. JAMES HARDEN, New York, N. Y., assignor to The Acheson Harden Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 17, 1921. Serial No. 515,970. Term of patent 7 years.



The ornamental design for a handkerchief, napkin, or similar article of manufacture substantially as shown and described.

61,370. SHELF PAPER. EDWARD KARFIOL, Brooklyn, N. Y. Filed June 3, 1922. Serial No. 2,523. Term of patent 14 years.



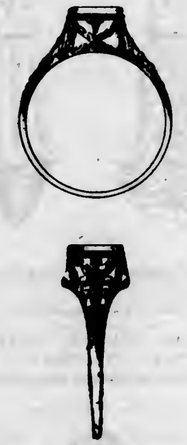
The ornamental design for shelf paper, as shown.

61,371. CARTON. FELIX LOWY, Milwaukee, Wis., assignor to The Palmolive Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 9, 1920. Serial No. 395,163. Term of patent 7 years.



The ornamental design for a carton, as shown.

61,372. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Apr. 18, 1922. Serial No. 1,819. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

61,373. WEDDING RING. CHARLES B. NAMIOT, New York, N. Y. Filed Nov. 12, 1920. Serial No. 423,735. Term of patent 3½ years.



The ornamental design for a wedding ring as shown.

61,374. TASSEL FOR LIGHTING FIXTURES. BARNET NEWLAND, New York, N. Y. Filed Dec. 6, 1921. Serial No. 520,451. Term of patent 3½ years.



The ornamental design for a tassel for lighting fixtures, as shown.

61,375. LOOP FOR LIGHTING FIXTURES. BARNET NEWLAND, New York, N. Y. Filed Dec. 6, 1921. Serial No. 520,452. Term of patent 3½ years.



The ornamental design for a loop for lighting fixtures, as shown.

61,376. WALL BRACKET. BARNET NEWLAND, New York, N. Y. Filed Dec. 8, 1921. Serial No. 521,038. Term of patent 3½ years.



The ornamental design for a wall bracket as shown.

61,377. LIGHT FIXTURE. ALBERT G. NYGREN, Milwaukee, Wis. Filed Dec. 8, 1921. Serial No. 521,040. Term of patent 3½ years.



The ornamental design for a light fixture, as shown.

61,378. FRINGE. FRANKLIN W. OEHRLE, Philadelphia, Pa., assignor to Oehrle Brothers Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 10, 1922. Serial No. 2,162. Term of patent 7 years.



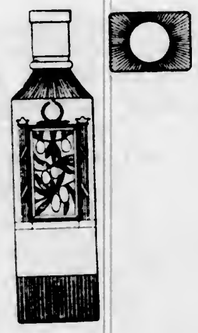
The ornamental design for fringe, as shown.

61,379. FRINGE. FRANKLIN W. OEHRLE, Philadelphia, Pa., assignor to Oehrle Brothers Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 10, 1922. Serial No. 2,163. Term of patent 7 years.



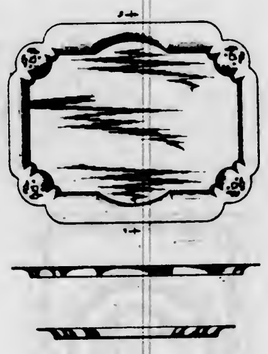
The ornamental design for fringe, as shown.

61,380. OLIVE-OIL BOTTLE. ALOYSIUS RITTERBECK, West Hoboken, N. J., assignor to Park & Tilford, New York, N. Y., a Corporation of New York. Filed Sept. 26, 1921. Serial No. 503,401. Term of patent 7 years.



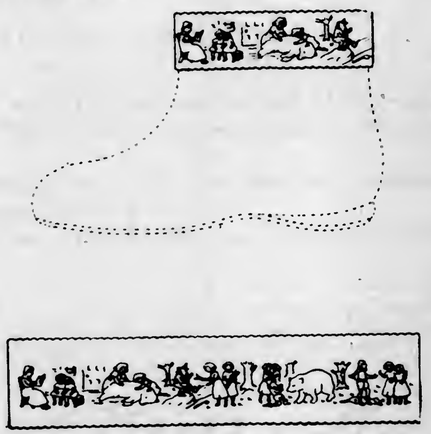
The ornamental design for an olive oil bottle as shown.

61,381. TRAY. LOUIS M. SCHNITZER and LEON GARROWAY, Brooklyn, and NATHAN GELFMAN, New York, N. Y. Filed Dec. 3, 1921. Serial No. 519,775. Term of patent 3½ years.



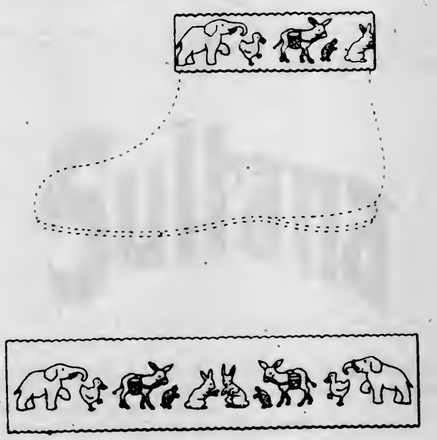
The ornamental design for a tray, as shown.

61,382. FOOTWEAR. HARRY SCHWERIN, Brooklyn, N. Y. Filed July 23, 1921. Serial No. 487,195. Term of patent 3½ years.



The ornamental design for footwear as shown.

61,383. FOOTWEAR. HARRY SCHWERIN, Brooklyn, N. Y. Filed July 23, 1921. Serial No. 487,197. Term of patent 3½ years.



The ornamental design for footwear as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 15, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 115,242. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COAST PRODUCTS COMPANY, St. Louis, Mo. Filed Jan. 17, 1919.

CALIFO

Particular description of goods.—Canned Fruit, Canned Vegetables, Canned Fish, Canned Crab Meat, Canned Molasses, Canned Mincemeat, Canned Pickles, Glassed or Jarred Pickles, Glassed or Jarred Sauces, Glassed or Jarred Fruit; Glassed or Jarred Fruit Juices for Table Purposes, Fruit Preserves, and Jellies.

Claims use since July 1, 1909.

Ser. No. 117,492. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL SUGAR FEED CO., Minneapolis, Minn. Filed Apr. 15, 1919.



Particular description of goods.—Poultry Feed, Scratch Size.

Claims use since Jan. 1, 1914.

Ser. No. 118,233. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MILLBURY STEEL FOUNDRY COMPANY, Millbury, Mass. Filed May 7, 1919.

Millnetic

Particular description of goods.—Iron and Steel Castings.

Claims use since Jan. 20, 1919.

Ser. No. 126,316. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Dec. 22, 1919.

Sultana

Particular description of goods.—Beans and Pork and Canned Fruits, Including Pears, Peaches, Pineapple, Plums, Apricots, and Cherries.

Claims use since about the fall of 1908.

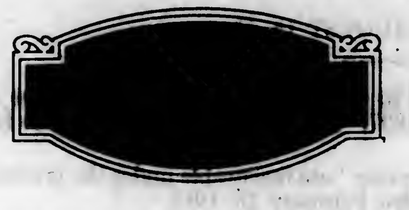
Ser. No. 131,785. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DIGEST PUBLISHING COMPANY, Cleveland, Ohio. Filed Apr. 29, 1920.

The Industrial Digest

Particular description of goods.—Publication Issued Monthly.

Claims use since Apr. 1, 1920.

Ser. No. 132,426. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JOHN CHMIELL CO., Boston, Mass. Filed May 14, 1920.



Particular description of goods.—Nonalcoholic, Maltless Beverage Made of Fruit Juices Sold as Soft Drinks and Sirup for Making the Same.
Claims use since Sept. 30, 1919.

Ser. No. 132,771. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN RADIATOR COMPANY, East Orange, N. J., and Chicago, Ill. Filed May 22, 1920.

ARCO

Particular description of goods.—Plain Thermostats and Clock Thermostats.
Claims use since May 25, 1916.

Ser. No. 133,488. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE "OLD BLEACH" LINEN COMPANY, LIMITED, Randalstown, Ireland. Filed June 9, 1920.



No claim is made to the expression "Bleached by the Sun" apart from the mark shown in the drawing.
Particular description of goods.—Linen and Hemp Goods, Being Goods in the Piece as Follows: Embroidery Linens and Costume Linens, Sheetings and Pillow Linens, Natural Linens, Hucks, Figured Towelings and Towels, and Diapers, and Made-Up Goods as Follows: Hemstitched Tablecloths and Napkins, Huck Towels, Fancy Towels, Diaper Towels, Damask Towels, Roller Towels, Cushion Covers, Chair Backs, Hemstitched Tea Napkins and Hemstitched Tea Cloths, Scarfs, Squares, Doilies, Pillowcases and Bolster Cases, Sheets.
Claims use since 1919.

Ser. No. 135,320. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDSON BROTHERS, Philadelphia, Pa. Filed July 23, 1920.



All reading matter on said drawing except the words "Italian Glory" being disclaimed.
Particular description of goods.—Olive Oil.
Claims use since about Aug. 26, 1919.

Ser. No. 139,457. (CLASS 39. CLOTHING.) FRIEDMAN BROTHERS INC., Council Bluffs, Iowa. Filed Nov. 10, 1920.



In trade-mark the portion of the rainbow shown is lined for blue on outer portion and red in the inner portion.
Particular description of goods.—Overalls and Jackets, Work Shirts, Work Caps, Dust Coats, Auto Coats, Hunting Coats; Sportsmen's Garments—Namely, Hunting Caps, Pants, Vests, and Belts.
Claims use since May, 1920.

Ser. No. 139,768. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

AMBER

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1900.

Ser. No. 139,836. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

INVINCIBLE

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping, and for Toilet Use—Namely, Hairbrushes.
Claims use since on or about Jan. 1, 1895.

Ser. No. 140,282. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920.

269

Particular description of goods.—Brushes for Toilet Use—Namely, Hairbrushes.
Claims use since on or about Nov. 1, 1884.

Ser. No. 140,368. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 27, 1920. Under ten-year proviso.

WHITING'S

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Jan. 1, 1868.

Ser. No. 140,431. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) DURKEE-ATWOOD CO., Minneapolis, Minn. Filed Nov. 30, 1920.

Vee-Round

Particular description of goods.—Power-Transmitting Belts of Fabric, Rubberized Fabric, or Leather Composition
Claims use since about Sept. 15, 1920.

Ser. No. 141,504. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) REITMAN MFG. CO., Chicago, Ill. Filed Dec. 24, 1920.

POLLYANNA

Particular description of goods.—Ready-to-Make Doll Clothes Sets in Which Pieces of Cloth are Provided Cut to the Desired Design and Arranged in Proper Relation with Each Other, so as to be Ready to be Sewed Together.
Claims use since Nov. 23, 1920.

Ser. No. 142,002. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERS BROS. MILLING CO., San Francisco, Calif. Filed Jan. 10, 1921.

MOLAS-O-MEAL

Particular description of goods.—Stock Feed.
Claims use since Apr. 1, 1920.

Ser. No. 142,157. (CLASS 32. FURNITURE AND UPHOLSTERY.) M. & M. WOOD WORKING CO., Portland, Oreg. Filed Jan. 12, 1921.



No claim is made to the picture of the stool appearing in drawing.
Particular description of goods.—Stools.
Claims use since Aug. 12, 1920.

Ser. No. 142,265. (CLASS 10. FERTILIZERS.) NITRO-BACTER SOIL VACCINE CORPORATION, Chicago, Ill. Filed Jan. 14, 1921.



No claim is made to the exclusive use of the words "Nitro-Bacter" and "Soil Vaccine" apart from the mark shown in the drawing.

Particular description of goods.—Liquid Cultures of Nitrifying Bacteria.

Claims use since Oct. 7, 1920.

Ser. No. 142,295. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) F. O. PIERCE COMPANY, New York, N. Y. Filed Jan. 15, 1921.



No claim is made to the word "Paint" apart from the mark shown in drawing.

Particular description of goods.—Varnishes, Furniture and Automobile Polishes, Paint-Pigment Colors, Dry Colors, Wood Stains, Metal-Coating Preparations in the Nature of Paints; Wood Fillers, Japans, Paint and Varnish Driers, Paint and Varnish Asphaltums, Bronze Liquid, Prepared Paint and Varnish Reducing Liquid, Colors in Oil, Varnish and Water Enamels in the Nature of Paint, Acid-Proof Paint and Coating, Flat Wall Finish in the Nature of Paint, Liquid Concrete Coating in the Natnre of a Paint, Deck Paint, Ready Mixed and Prepared Paints, Floor Wax, Paste Paints, Paints in Powdered Form, Floor Oil and Paint, Prepared Shellac, Japan and Liquid Driers, Color Varnishes, Auto-Top Dressings in the Nature of a Paint, Varnish Stains, and Liquid and Paste Putty.

Claims use since Jan. 13, 1921.

Ser. No. 142,315. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ARTHUR MÜLLER BAUTEN UND INDUSTRIEWERKE, Johannisthal, near Berlin, Germany. Filed Jan. 17, 1921.

Ambi

Particular description of goods.—Internal-Combustion Engines, Steam Engines; All Kinds of Agricultural Machines, Such as Sowing and Harvesting Machines, Plows, Plowing Machines, and Their Parts; Tile and Brick Making Machines and Parts thereof, and Brick Molds.

Claims use since Oct. 18, 1918.

Ser. No. 142,759. (CLASS 15. OILS AND GREASES.) LINCOLN MOTOR COMPANY, Detroit, Mich. Filed Jan. 25, 1921.



Particular description of goods.—Lubricating Oils and Greases.

Claims use since Nov. 20, 1920.

Ser. No. 143,305. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WORCESTER PRESSED ALUMINUM COMPANY, Worcester, Mass. Filed Feb. 7, 1921.

PALCO

Particular description of goods.—Hot-Water Bottles, Fountain Syringes, and Combination Water Bottles and Fountain Syringes.

Claims use since and during 1915.

Ser. No. 143,500. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) KEYSTONE FRUIT PRODUCTS COMPANY, Cincinnati, Ohio. Filed Feb. 12, 1921.



Particular description of goods.—Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Flavors and Extracts for Making Same.

Claims use since June 1, 1915.

Ser. No. 143,628. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) UNITED STATES TIRE COMPANY, New York, N. Y. Filed Feb. 15, 1921.



Particular description of goods.—Tubes for Tires.

Claims use since Mar. 1, 1916.

Ser. No. 143,963. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JOHN SALM, doing business as Salm Manufacturing Company, Torrance, Calif. Filed Feb. 23, 1921.

IV-A-LONE

Particular description of goods.—Toilet Articles Showing Mother-of-Pearl Handles for Manicure Articles—viz, Nail Files, Nail Cleaners, Nail Buffers, Cuticle Knives, Cuticle Shears, Cuticle Buffers, Cuticle Scrapers, Corn Knives, Blackhead Removers, Also Tweezers and Surgical Mirrors.

Claims use since Jan. 20, 1921.

Ser. No. 144,064. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JOHN SALM, doing business as Salm Manufacturing Company, Torrance, Calif. Filed Feb. 23, 1921.

IV-OR-LONE

Particular description of goods.—Toilet Articles Showing Mother-of-Pearl Handles for Manicure Articles—viz, Nail Files, Nail Cleaners, Nail Buffers, Cuticle Knives, Cuticle Shears, Cuticle Buffers, Cuticle Scrapers, Corn Knives, Blackhead Removers, Also Tweezers and Surgical Mirrors.

Claims use since Jan. 20, 1921.

Ser. No. 144,059. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) R. AVENARIUS & CO., Stuttgart, Germany. Filed Feb. 26, 1921.

Avenarius Carbolineum

Trade-mark consists of the words "Avenarius Carbolineum."

Particular description of goods.—Preserving Paint.

Claims use since 1898.

Ser. No. 145,297. (CLASS 39. CLOTHING.) JESSE WOOLF CO., New York, N. Y. Filed Mar. 26, 1921.

JESSCO

Particular description of goods.—Frocks.

Claims use since Mar. 1, 1921.

Ser. No. 145,382. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) W. WM. WINBERG, trading as The Winberg Druggists' Supply Co., Wilmette, Ill. Filed Mar. 28, 1921.

Boro-Eucol

Particular description of goods.—Nasal Douche.

Claims use since 1904.

Ser. No. 145,896. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HUNTY-PECK & COMPANY, Indianapolis, Ind. Filed Apr. 8, 1921.

Orange Quench

The word "Orange" is hereby disclaimed apart from the mark as shown.

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirups for Making the Same.

Claims use since February, 1920.

Ser. No. 145,934. (CLASS 39. CLOTHING.) BERNSTEIN & SHULMAN, New York, N. Y. Filed Apr. 9, 1921.

Young-Mode

Particular description of goods.—Misses' Suits and Dresses.

Claims use since Feb. 1, 1921.

Ser. No. 146,432. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ELI F. GOLDBERG, Rochester, N. Y. Filed Apr. 20, 1921.

LEWGOLD

Particular description of goods.—Dental Syringes.
Claims use since Aug. 1, 1920.

Ser. No. 146,446. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) LUPORINI BROS., New York, N. Y. Filed Apr. 20, 1921.



Particular description of goods.—Photographic Films.
Claims use since Mar. 15, 1921.

Ser. No. 146,652. (CLASS 15. OILS AND GREASES.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.

Aster

Particular description of goods.—Sewing-Machine Oil.
Claims use since December, 1913.

Ser. No. 146,680. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALPINE CHOCOLATES COMPANY, Boston, Mass. Filed Apr. 25, 1921.

HEIGHT OF DELIGHT

Trade-mark "Height of Delight."
Particular description of goods.—Candy.
Claims use since Jan. 15, 1920.

Ser. No. 147,715. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) DOUGHTEN SEED COMPANY, Jersey City, N. J. Filed May 14, 1921.

FREEDOM BRAND



No claim made to the exclusive use of the word "Brand" apart from the mark shown in drawing.
Particular description of goods.—Field and Grass Seeds.
Claims use since about Feb. 1, 1920.

Ser. No. 147,745. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. & H. TURNER LIMITED, Wallington, England, and Helmond, Netherlands. Filed May 14, 1921.

HELM ROYAL CHOCOLATES

The word "Chocolates" is hereby disclaimed apart from the other features of the mark.
Particular description of goods.—Cocoa and Chocolate.
Claims use since Nov. 16, 1920.

Ser. No. 147,770. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ANTON I. EKSTROM, Rockford, Ill. Filed May 16, 1921.

ROTATION

Particular description of goods.—Puzzles Characterized by a Plurality of Blocks Having Numerals or Characters and Adapted to be Moved into Predetermined Arrangement.
Claims use since Feb. 25, 1921.

Ser. No. 148,054. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) N. B. BEALY, Butte, Mont. Filed May 23, 1921.



No claim is made to the words "Burnswell Coal" per se.
Particular description of goods.—Coal.
Claims use since Apr. 25, 1921.

Ser. No. 148,055. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) N. B. BEALY, Butte, Mont. Filed May 23, 1921.

WHITE HEAT COAL

No claim is made for "White Heat Coal" per se.
Particular description of goods.—Coal.
Claims use since Apr. 25, 1921.

Ser. No. 148,844. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE P. & M. CO., Chicago, Ill. Filed May 27, 1921.



Trade mark "P. & M." comprising in form used a plurality of concentric circles.
Particular description of goods.—Iron and Steel Castings, Iron and Steel Forgings, Rail Anticreepers, Rolled Steel-Rail Anchors, Rail-Anchor Shoes, Rail-Anchor Yokes, and Rolled-Steel Rail-Anchor Springs.
Claims use since about Sept. 1, 1916.

Ser. No. 148,419. (CLASS 39. CLOTHING.) BROWN & SILVERMAN, New York, N. Y. Filed May 31, 1921.

dé Butante
SILK UNDERTHINGS

The words "Silk Underthings" are disclaimed from the trade-mark shown in drawing.
Particular description of goods.—Women's Silk and Muslin Underwear.
Claims use since May 1, 1921.

Ser. No. 149,119. (CLASS 39. CLOTHING.) S. J. BROUWER SHOE COMPANY, Milwaukee, Wis. Filed June 14, 1921.

GROW-RIGHT

No claim is made to the representation of the shoe sole apart from the mark shown.
Particular description of goods.—Shoes of Leather and Cloth and Leather.
Claims use since about Oct. 1, 1917.

Ser. No. 149,258. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) REGINA SWIMMING DEVICES CO., New York, N. Y. Filed June 18, 1921.



No claim is made to the representation of a swimming device or float apart from the mark shown in drawing.
Particular description of goods.—Swimming or Bathing Devices Comprising Body-Supporting Floats.
Claims use since early in 1913.

Ser. No. 149,584. (CLASS 39. CLOTHING.) JANE FOOTE, Binghamton, N. Y. Filed June 24, 1921.

"Jane" Garden Dress

No claim is made to the words "Garden Dress" apart from the mark shown on drawing.
Particular description of goods.—Women's Dresses.
Claims use since Feb. 1, 1919.

Ser. No. 149,602. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CHAS. A. SCHMIDT INSTRUMENT COMPANY, St. Louis, Mo. Filed June 24, 1921.

PARAMOUNT

Particular description of goods.—Surgical Instruments and Hospital Supplies, Including Operating Gowns, Operating Suits, Patients' Gowns, Laboratory Coats, Office Coats, Operating Caps, and Surgeons' Needles and Needle Holders.
Claims use since on or about June 10, 1919.

Ser. No. 150,151. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) EUGENE M. LOWMAN, Orangeburg, S. C. Filed July 8, 1921.

HALO

The drawing is lined for red.
Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since June 9, 1921.

Ser. No. 150,171. (CLASS 39. CLOTHING.) VERNART MANUFACTURING CORP., New York, N. Y. Filed July 8, 1921.

ARTGRAPHICS

Particular description of goods.—Decorated Slippers of Felt or Fabric.
Claims use since June 1, 1914.

Ser. No. 151,033. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE C. BEIDLER, Chicago, Ill. Filed July 28, 1921.



No claim made to the word "Quality" apart from mark shown on drawing.
Particular description of goods.—Candies.
Claims use since June 21, 1921.

Ser. No. 151,453. (CLASS 25. LOCKS AND SAFES.) FRANK M. FISH, Beloit, Wis. Filed Aug. 5, 1921.

FOILOCK

Particular description of goods.—Locks for Automobiles.
Claims use since June 14, 1921.

Ser. No. 151,605. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALLISON-BEDFORD CO., Chicago, Ill. Filed Aug. 10, 1921.

GLEN ORCHARD

Particular description of goods.—Preserved Fruit and Mincemeat, Fruit Preserves, Jams, Marmalades, Fruit Butters, Spaghetti, Canned Fruit, Canned Vegetables, Extracts and Flavors for Foods; Jambalaya—Namely, a Food Comprised of Rice, Beans, and Tomato Sauce, and Crushed Fruits.
Claims use since Jan. 15, 1920.

Ser. No. 151,648. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN MOTOR CHEMICAL CORPORATION, Los Angeles, Calif. Filed Aug. 11, 1921.

NOX ALL

The lines shown at end of scroll are merely shade lines.
Particular description of goods.—Automobile Top Dressing, Mohair Dressing, and Windshield Vision Preparation.
Claims use since Mar. 15, 1921.

Ser. No. 152,112. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WESTERN HAIR COMPANY, Spokane, Wash. Filed AUG. 23, 1921.

Beautex

Particular description of goods.—Face Powder, Lavender Lotion, Bleaching Lotion, Peroxide, Finishing Cream, Bleaching Cream, and Cold Cream, Being Preparations and Tonics for Use on Human Skin and in Treatment Thereof, Also for Dandruff Remedy, Quinine Hair Tonic, and Brilliantine, Being Tonics and Dressings Used in and Upon Human Hair and for Scalp Treatment, and All Used in General Beauty-Parlor Work.
Claims use since June 21, 1921.

Ser. No. 152,148. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WIENER & BIEBER, San Francisco, Calif. Filed Aug. 24, 1921.

CAFÉ ROYAL

Particular description of goods.—Candies.
Claims use since December, 1916.

Ser. No. 152,190. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) SOCIETE ANONYME DES ANCIENS ETABLISSEMENTS BRAUNSTEIN FRERES, Paris, France. Filed Aug. 25, 1921.



Particular description of goods.—Cigarette Paper.
Claims use since June 30, 1921.

Ser. No. 152,814. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TIOGA MILL & ELEVATOR CO., Waverly, N. Y. Filed Sept. 10, 1921.

Egatine

Particular description of goods.—Poultry Feed.
Claims use since July 8, 1921.

Ser. No. 152,910. (CLASS 39. CLOTHING.) BROHMAN COMPANY, New York, N. Y. Filed Sept. 14, 1921.

Pidgie Pantie-Pinnie

Particular description of goods.—Children's Dresses.
Claims use since July 11, 1921.

Ser. No. 152,944. (CLASS 46. FOOS AND INGREDIENTS OF FOODS.) BERNET, CRAFT & KAUFFMAN MILLING CO., St. Louis, Mo. Filed Sept. 15, 1921.



The shade lines in drawing do not indicate color.
Particular description of goods.—Self-Rising Wheat Flour.
Claims use since Mar. 21, 1921.

Ser. No. 153,380. (CLASS 39. CLOTHING.) RALPH K. VILES, Minneapolis, Minn. Filed Sept. 26, 1921.

MEDGAR

Particular description of goods.—Garments Such as Bed Shirts.
Claims use since July 12, 1921.

Ser. No. 153,394. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) F. & W. MANUFACTURING COMPANY, Fresno, Calif. Filed Sept. 27, 1921.



Particular description of goods.—Windshield Visors.
Claims use since Aug. 1, 1920.

Ser. No. 153,401. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GOMES & SLOAN, INC., New York, N. Y. Filed Sept. 27, 1921.

GOMESLOAN

Particular description of goods.—Antifriction Metal, Solder, Machinery Parts Made of Castings and Rails.
Claims use since February, 1919.

Ser. No. 153,841. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GENERAL LABORATORIES, Atlanta, Ga. Filed Oct. 7, 1921.



No exclusive use of the words "Tonic Full o'Vitamines" is made apart from the mark shown on drawing.
Particular description of goods.—Liquid Tonic Containing Vitamines and Medicinal Properties.
Claims use since Aug. 5, 1921.

Ser. No. 154,115. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BERNARD BLANKMAN, Brooklyn, N. Y. Filed Oct. 15, 1921.



Particular description of goods.—Parlor Table Game.
Claims use since Sept. 28, 1921.

Ser. No. 154,141. (CLASS 39. CLOTHING.) GOLDENBERG'S, Washington, D. C. Filed Oct. 15, 1921.

Chamosine

Particular description of goods.—Fabric Gloves.
Claims use since July 1, 1921.

Ser. No. 154,431. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y. Filed Oct. 22, 1921.



Particular description of goods.—Wheat Flour.
Claims use since Nov. 15, 1920.

Ser. No. 154,432. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y. Filed Oct. 22, 1921.



Particular description of goods.—Wheat Flour.
Claims use since May 28, 1921.

Ser. No. 154,605. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y. Filed Oct. 26, 1921.



Particular description of goods.—Stains and Finishes.
Claims use since Dec. 28, 1908.

Ser. No. 154,652. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEBRUDER JOOST, Langnau, Switzerland. Filed Oct. 27, 1921.



Particular description of goods.—Cheese and Preserved Cheese.
Claims use since July 1, 1921.

Ser. No. 154,966. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DUDLEY GUM COMPANY, Nashville, Tenn. Filed Nov. 3, 1921.



The word "Dudley's" is produced in red and the representation of the leaf is produced in green.
Particular description of goods.—Chewing Gum.
Claims use since May 17, 1917.

Ser. No. 155,018. (CLASS 39. CLOTHING.) THE GOVERNOR FASTENER COMPANY, New York, N. Y. Filed Nov. 4, 1921.

GOVERNOR

Particular description of goods.—Belts, Belting, and Elastics, These Goods Being Fastening, Retaining, and Supporting Devices Prepared for Use in the Construction of Wearing Apparel, Garters, and Neckties.
Claims use since about Jan. 1, 1913.

Ser. No. 155,214. (CLASS 39. CLOTHING.) I. & B. COHEN, BOMZON CO. INC., New York, N. Y. Filed Nov. 9, 1921.

ROYAL PALM CLOTHES

No claim is made to exclusive use of the word "Clothes" apart from mark shown in drawing.
Particular description of goods.—Men's and Youths' Suits, Pants and Trousers, Coats, and Vests.
Claims use since Oct. 1, 1921.

Ser. No. 155,233. (CLASS 39. CLOTHING.) THE A. W. OVERALL COMPANY, Cleveland, Ohio. Filed Nov. 9, 1921.



The lining on drawing is for shading only.
Particular description of goods.—Overalls and Work Shirts.
Claims use since Feb. 9, 1914.

Ser. No. 155,479. (CLASS 39. CLOTHING.) THE BROWN-FREEMAN COMPANY, Boston, Mass. Filed Nov. 17, 1921.

Willo Weave

Particular description of goods.—Women's Undergarments Commercially Known as Camisoles, Bloomers, Gowns, Envelopes, Vests, Petticoats, Combinations, Step-Ins, Brassières, Manufactured from Knitted As Well As Woven Textile Fabrics.
Claims use since Aug. 2, 1920.

Ser. No. 155,749. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. EDWIN GHEENS, doing business as Bradas & Gheens, Louisville, Ky. Filed Nov. 22, 1921.



The lining shown is for shading only.
Particular description of goods.—Candies.
Claims use since June 1, 1899.

Ser. No. 155,795. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AUTO SPECIALTIES MANUFACTURING CO., San Francisco, Calif., and St. Joseph, Mich. Filed Nov. 23, 1921.

DREDNAUT

Particular description of goods.—Jacks.
Claims use since Sept. 25, 1921.

Ser. No. 155,849. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PHIL H. WHITE, Brooklyn, N. Y. Filed Nov. 23, 1921.

MARVELLO

Particular description of goods.—Material Used for Cleaning Glass Panes or the Like and for Preventing the Condensation of Moisture Thereon, and Consisting of Fabric Impregnated and Filled with a Chemical Compound.
Claims use since Feb. 1, 1921.

Ser. No. 155,938. (CLASS 39. CLOTHING.) TIMSON BROS. INC., Boston, Mass. Filed Nov. 25, 1921.



The words "Standardized Shoe" and the phrase "Each Part the Standard of Its Class," are disclaimed.
Particular description of goods.—Shoes Made of Leather, Rubber, and Combinations of Leather, Rubber, and Fabric.
Claims use since Nov. 2, 1921.

Ser. No. 156,179. (CLASS 7. CORDAGE.) SAMSON CORDAGE WORKS, Boston, Mass. Filed Dec. 1, 1921.

PHOENIX

Particular description of goods.—Twine.
Claims use since Nov. 10, 1921.

Ser. No. 156,302. (CLASS 25. LOCKS AND SAFES.) JOHN W. SHEPARD, Tucson, Ariz. Filed Dec. 5, 1921.

THE WATCH DOG

Particular description of goods.—Automobile Wheel Locks.
Claims use since Oct. 10, 1921.

Ser. No. 156,365. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EVERETT WELLES FRAZAR, San Francisco, Calif. Filed Dec. 7, 1921.



The word "Brand" does not form a part of the mark sought to be registered.
Particular description of goods.—Walnut Meats in Their Natural State and Peanuts in Their Natural State.
Claims use since Jan. 1, 1920.

Ser. No. 156,512. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANAHEIM SUGAR COMPANY, INC., Los Angeles, Calif. Filed Dec. 10, 1921.



No claim is made to the right to the exclusive use of the word "Sugar" and "Southern California" apart from the mark shown in the drawing.
Particular description of goods.—Sugar.
Claims use since Sept. 1, 1921.

Ser. No. 156,559. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BATES ENGINEERING COMPANY, Liverpool, England. Filed Dec. 10, 1921.

TOBATE

Particular description of goods.—Baking Machines and Parts of Machines for Making Wafer Biscuits, Cup Wafers, Biscuits, and Similarly-Baked Confectionery Articles.
Claims use since July 23, 1921.

Ser. No. 156,629. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE HUTMACHER BRAIDING COMPANY, Paterson, N. J. Filed Dec. 13, 1921.



No claim is made to the representation of the goods apart from mark shown in drawing.
Particular description of goods.—Shoe Laces.
Claims use since May 27, 1921.

Ser. No. 156,656. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ERNEST PREHN, doing business as Hunterdon Garage and Machine Shop, Newark, N. J. Filed Dec. 13, 1921.



The representation of a running-board cantilever brace and the words "Running Board Cantalever Brace," and the words "Trade Mark" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Brace for a Running-Board Support, Automobile Wheels, Automobile Rims, and Supports for Spare Automobile Tires.

Claims use since June 1, 1921.

Ser. No. 156,766. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Dec. 15, 1921.



No claim is made to the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Refined Petroleum for Illuminating, Heating, and Power Purposes.

Claims use since Nov. 28, 1921.

Ser. No. 156,897. (CLASS 39. CLOTHING.) GOLD MARK KNITTING CO., Woonsocket, R. I. Filed Dec. 19, 1921.



The descriptive words "Athletic Garments" are disclaimed.

Particular description of goods.—Clothing.

Claims use since June 1, 1912.

Ser. No. 156,969. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN WILLIAM MEYER, Brooklyn, N. Y. Filed Dec. 20, 1921.



No claim is made to use of the word "Bar" and the phrase "It Melts In Your Mouth" apart from the mark shown.

Particular description of goods.—Candies.

Claims use since Dec. 1, 1921.

Ser. No. 156,973. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE RIKER COMPANY, Newark, N. J. Filed Dec. 20, 1921.



Representation of the goods apart from the mark as shown in the drawing is herewith disclaimed.

Particular description of goods.—Belt Buckles and Buckles and Clasps for Shoes and Slippers, Not Made of Precious Metal.

Claims use since about July 11, 1921.

Ser. No. 156,974. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE RIKER COMPANY, Newark, N. J. Filed Dec. 20, 1921.



Particular description of goods.—Belt Buckles and Buckles and Clasps for Shoes and Slippers, Not Made of Precious Metal; Embroidery and Crochet Needles, and Embroidery Hoops and Frames.

Claims use since about January, 1901, on belt buckles and buckles and clasps for shoes and slippers; since about June 1, 1919, on embroidery and crochet needles; since about Oct. 1, 1920, on embroidery hoops and frames.

Ser. No. 156,976. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) TOPHAMS, Washington, D. C. Filed Dec. 20, 1921. Under ten-year proviso.

TOPHAMS

Particular description of goods.—Trunks, Chests in the Nature of Trunks, Sample Cases, Record-Carrying Cases, Traveling Cases, Suitcases, Brief Cases, Cardcases, Traveling Bags, Portfolios, Pocketbooks, and Leather Mail Bags.

Claims use since 1855.

Ser. No. 157,006. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) POLUSTRE CO., Philadelphia, Pa. Filed Dec. 21, 1921.



Particular description of goods.—Polishes and Lacquers for Articles of Wood or Metal.

Claims use since about Nov. 15, 1921.

Ser. No. 157,097. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN ALBERT HATHAWAY, doing business as Alkitone Tooth Paste Company, Detroit, Mich. Filed Dec. 24, 1921.



The words "Tooth Paste" are disclaimed apart from the mark shown in drawing.

Particular description of goods.—Tooth Paste.

Claims use since Oct. 1, 1921.

Ser. No. 157,113. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SHAWMUT MACHINE WORKS, INC., also doing business as Tremont Products Company, Boston, Mass. Filed Dec. 24, 1921.



Particular description of goods.—Electric Socket and Other Switches.

Claims use since about Apr. 22, 1921.

Ser. No. 157,198. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE M. I. WILCOX COMPANY, Toledo, Ohio. Filed Dec. 27, 1921.



Particular description of goods.—Dry, Paste, and Ready-Mixed Paints and Putty.

Claims use since October, 1911.

Ser. No. 157,487. (CLASS 39. CLOTHING.) JAFFE, FEINGOLD & WIENER, New York, N. Y. Filed Jan. 4, 1922.



No claim is made to the word "Clothes" apart from the mark shown in drawing.

Particular description of goods.—Men's Clothing—Namely, Overcoats and Suits.

Claims use since Sept. 6, 1921.

Ser. No. 157,497. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL DRUG STORES CORP., New York, N. Y. Filed Jan. 4, 1922.

NATIONAL
Brown Package

The words "Brown Package" are disclaimed apart from the other features of the mark.

Particular description of goods.—Assorted Chocolates.

Claims use since Aug. 16, 1921.

Ser. No. 157,504. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TOCH BROTHERS, New York, N. Y. Filed Jan. 4, 1922.

Wonder
Koat

Particular description of goods.—Enamel Paints.

Claims use since 1910.

Ser. No. 157,533. (CLASS 39. CLOTHING.) PHILIPSBORN'S, INC., Chicago, Ill. Filed Jan. 5, 1922.

Superwear

Particular description of goods.—Wool, Cotton, or Silk, or Wool and Cotton Mixed, or Silk and Wool Mixed, or Silk and Cotton Mixed, and Nainsook and Linen Underwear.
Claims use since Oct. 1, 1921.

Ser. No. 157,595. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) POGO-WERKE G. m. b. H., Hanover, Germany. Filed Jan. 6, 1922.

„Pogo"

Particular description of goods.—Sporting Goods and Toys.
Claims use since May 6, 1921.

Ser. No. 157,674. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE ELWOOD MYERS CO., Springfield, Ohio. Filed Jan. 9, 1922.



Particular description of goods.—Leather Novelties Consisting of Men's Bill Folds, Cardcases, Women's Hand Bags and Purses, and Leather Tags.
Claims use since 1913.

Ser. No. 157,843. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE NIFTY JAR & COOKER MANUFACTURING COMPANY, Cincinnati, Ohio. Filed Jan. 12, 1922.



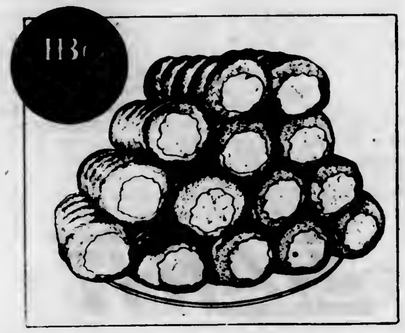
Without waiving any common-law rights the said corporation disclaims any attempt to hereby cover in the registration of its mark the words "Trade Mark" "Cooker," "Sole Mfrs." and "Cincinnati, Ohio," apart from the mark as shown.
Particular description of goods.—Cooking Vessels, More particularly Cookers.
Claims use since December, 1921.

Ser. No. 157,869. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WASHINGTON LABORATORIES, INC., New York, N. Y. Filed Jan. 12, 1922.

AROMAX

Trade-mark "Aromax."
Particular description of goods.—Disinfectants.
Claims use since Oct. 1, 1921.

Ser. No. 157,924. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HIRSCH BROTHERS COMPANY, Chicago, Ill. Filed Jan. 14, 1922.



The pictorial representation of the goods shown on drawing is disclaimed apart from the other features of the mark.
Particular description of goods.—Whip Powder.
Claims use since on or about May 13, 1911.

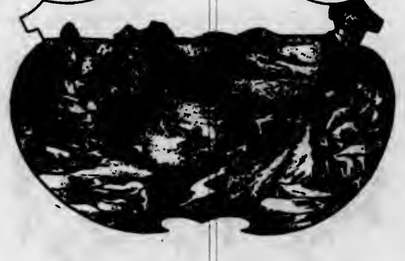
Ser. No. 157,934. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MANNING, MAXWELL & MOORE, INC., New York, N. Y. Filed Jan. 14, 1922.

RETARD

Particular description of goods.—Pressure Gauges, Steam Gauges, Hydraulic Gauges, Bourdon-Tube Gauges, Liquid Gauges, Volume Gauges, and Vacuum Gauges
Claims use since Nov. 15, 1915

Ser. No. 157,948. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAXTON & GALLAGHER CO., Omaha, Nebr. Filed Jan. 14, 1922.

GRAND CANON



Particular description of goods.—Canned Vegetables—viz, Peas; and Canned Fruits—viz, Plums, Grapes, Apricots, Peaches, Blackberries, Pears, Cherries, Sliced Pineapple, Red Raspberries, Strawberries.
Claims use since May 17, 1904.

Ser. No. 157,962. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STRATHMORE CO-OPERATIVE ASSOCIATION, Strathmore, Calif. Filed Jan. 14, 1922.

GOLDEN PHEASANT



Particular description of goods.—Fresh Oranges.
Claims use since Oct. 15, 1921.

Ser. No. 157,977. (CLASS 39. CLOTHING.) THE STYLE CENTER TAILORING COMPANY, Cincinnati, Ohio. Filed Jan. 14, 1922.

TAILORED AT THE Style-Center -CINCINNATI-

No claim is made to the words "Tailored at" and "Cincinnati" except in the form and association shown in the drawing.
Particular description of goods.—Men's and Young Men's Clothing Consisting of Overcoats, Raincoats, Coats, Vests, and Trousers.
Claims use since May 26, 1917.

Ser. No. 158,041. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MARY HEATH COMPANY, St. Louis, Mo. Filed Jan. 17, 1922.



Particular description of goods.—Marshmallow Cream Used as a Dressing and Filling for Pastry, Cakes, Confectionery, Ices, and Ice Cream, and Chocolate Cream Used as a Dressing and Filling for Pastry, Cakes, Confectionery, Ices, and Ice Cream and for Preparing Chocolate Beverages.
Claims use since about Nov. 15, 1921.

Ser. No. 158,096. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES D. ROSZELL, doing business as J. D. Roszell, Peoria, Ill. Filed Jan. 18, 1922.

Alaska Cake

Particular description of goods.—Ice Cream.
Claims use since on or about Nov. 15, 1921.

Ser. No. 158,111. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATE PRODUCTS COMPANY. Baltimore, Md. Filed Jan. 19, 1922.

VANESSA

Trade-mark consists of the invented word "Vanessa."
Particular description of goods.—Candy Composed Wholly or in Part of Chocolate.
Claims use since on or about Nov. 12, 1921.

Ser. No. 158,170. (CLASS 12. CONSTRUCTION MATERIALS.) THE AGASOTE MILLBOARD CO., Trenton, N. J. Filed Jan. 20, 1922.

SOTE

Particular description of goods.—Fiber Board Sold in Sheets.
Claims use since about 1907.

Ser. No. 158,184. (CLASS 39. CLOTHING.) ANNA HEUSER, Paterson, N. J. Filed Jan. 20, 1922.

Thayna

Trade-mark consists of the word "Thayna."
Particular description of goods.—Women's Closed Drawers Manufactured from Textile Fabrics.
Claims use Jan. 5, 1922.

Ser. No. 158,213. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BOSTON MOLASSES COMPANY, Boston, Mass. Filed Jan. 21, 1922.

Grandma's old fashioned



The bust of woman shown in the mark is fanciful.
Particular description of goods.—Molasses.
Claims use since Jan. 1, 1922.

Ser. No. 158,222. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. N. CLARK COMPANY, Rochester, N. Y. Filed Jan. 21, 1922.

TOP NOTCH

Particular description of goods.—Canned Blackberries, Black Raspberries, Red Raspberries, Strawberries, Gooseberries, Pineapple, Peaches, Pickled Peaches, Plums, Pickled Pears, Bartlett Pears, Red Cherries, White Cherries, Apple Sauce, Tomatoes, Succotash, Pumpkin, Spinach, Lima Beans, Wax Beans, Beans, Corn, and Peas.
Claims use since 1911.

Ser. No. 158,315. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KAUFMAN BROS., New York, N. Y. Filed Jan. 23, 1922.



The picture in drawing is fanciful.
Particular description of goods.—Hair Nets.
Claims use since Nov. 1, 1921.

Ser. No. 158,342. (CLASS. 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE F. M. TOOHEY DRUG CO., Chillicothe, Ohio. Filed Jan. 23, 1922.

GLYCO-GENTIAN COMPOUND

The words "Glyco-Gentian Compound" are hereby disclaimed apart from mark, as shown.
Particular description of goods.—Pharmaceutical Preparation.
Claims use since Apr. 30, 1915.

Ser. No. 158,344. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNION SUGAR COMPANY, also doing business as Alameda Sugar Company, San Francisco, Calif. Filed Jan. 23, 1922.



Particular description of goods.—Beet Sugar, Cane Sugar, and Maple Sugar.
Claims use since Nov. 1, 1921.

Ser. No. 158,350. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHITE BROS. & CRUM CO., Lewiston, Idaho. Filed Jan. 23, 1922.



Particular description of goods.—Fresh Deciduous Fruits.
Claims use since Sept. 28, 1921.

Ser. No. 158,387. (CLASS 39. CLOTHING.) GREENWALD, FRIEDMAN & CO., New York, N. Y. Filed Jan. 24, 1922.

Chamoyknit

Particular description of goods.—Tailor-Made Dresses.
Claims use since Dec. 27, 1921.

Ser. No. 158,455. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUSSELL STOVER COMPANY, Chicago, Ill. Filed Jan. 25, 1922.

PIE

Particular description of goods.—Ice Cream and Ice Cream Covered with Chocolate.
Claims use since July 18, 1921.

Ser. No. 158,527. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM A. HICKS, doing business as "Hicks Candy Kitchen," Chicago, Ill. Filed Jan. 27, 1922.

HICKSBAR

The word "Bar" is disclaimed apart from other features of the mark.
Particular description of goods.—Candy.
Claims use since on or about Dec. 1, 1921.

Ser. No. 158,647. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. C. PENNEY COMPANY, Salt Lake, Utah. Filed Jan. 30, 1922.



Particular description of goods.—Bleached Cotton Muslin.
Claims use since Dec. 29, 1921.

Ser. No. 158,671. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DOLLAR KNIFE CORPORATION, Atlanta, Ga. Filed Jan. 31, 1922.



"IT'S REALLY WORTH MORE"

No claim is made to the exclusive use of "The Knife." "It's really worth more" or to the representation of the knife except in the arrangement shown.

Particular description of goods.—Pocketknives.

Claims use since Jan. 26, 1922.

Ser. No. 158,691. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SERVICE TOOL COMPANY, Newark, N. J. Filed Jan. 31, 1922.

SHEARKLEEN

Particular description of goods.—Files.

Claims use since about June 21, 1921.

Ser. No. 158,700. (CLASS 38. PRINTS AND PUBLICATIONS.) BACHRACH, INCORPORATED, Washington, D. C. Filed Feb. 1, 1922.



The picture shown on drawing is not a portrait, but an arbitrary design for use as trade-mark. No claim is made to the words "Photographs of Distinction" apart from mark shown on drawing.

Particuler description of goods.—Photographs, Prints, and Publications.

Claims use since 1905.

Ser. No. 158,745. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) A-C MANUFACTURING CO., Chicago, Ill. Filed Feb. 2, 1922.



Applicant disclaims the exclusive use of the word "Brake" and the representation of a brake as shown in its mark except in connection with applicant's trade-mark.

Particular description of goods.—Automobile Brakes and Parts Thereof—Namely, Brake Bands, Brake Shoes, Brake-Operating Arms, and Brake Adjusters.

Claims use since April, 1916.

Ser. No. 158,752. (CLASS 39. CLOTHING.) BIBERMAN BROTHERS, INC., Philadelphia, Pa. Filed Feb. 2, 1922.



Particular description of goods.—Children's Dresses, Middy Blouses, Shirt Waists, and Skirts.

Claims use since Jan. 17, 1922.

Ser. No. 158,773. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HUDSON MOTOR SPECIALTIES COMPANY, Philadelphia, Pa. Filed Feb. 2, 1922.

HUDCO

Particular description of goods.—Transmission or Crank-Casing Parts.

Claims use since Jan. 12, 1922.

Ser. No. 158,812. (CLASS 12. CONSTRUCTION MATERIALS.) THE ARGUS MANUFACTURING COMPANY, Cleveland, Ohio. Filed Feb. 3, 1922.

ARGUS

Particular description of goods.—Roofing Cement, Joint Cement, and Concrete Hardener.

Claims use since Feb. 1, 1919.

Ser. No. 158,825. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES H. DORAN, Washington, D. C. Filed Feb. 3, 1922. Under ten-year proviso.

DORAN'S
FAMOUS CHOCOLATE FUDGE

Particular description of goods.—Candies.

Claims use since Nov. 22, 1890.

Ser. No. 158,861. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GEVAERT PHOTO PRODUKTEN, Oude-God, near Antwerp, Belgium. Filed Feb. 4, 1922.



Particular description of goods.—Cameras, Photographic Films on Spools, Filmpacks, Portrait Films, Cinematographic Films, Sensitized Photographic Papers and Plates.

Claims use since November, 1921.

Ser. No. 158,862. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GEVAERT PHOTO PRODUKTEN, Oude-God, near Antwerp, Belgium. Filed Feb. 4, 1922.

Gevaert

Particular description of goods.—Cameras, Photographic Films on Spools, Filmpacks, Portrait Films, Cinematographic Films, Sensitized Photographic Papers and Plates.

Claims use since November, 1921.

Ser. No. 158,863. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GEVAERT PHOTO PRODUKTEN, Oude-God, near Antwerp, Belgium. Filed Feb. 4, 1922.

ARTOS

Particular description of goods.—Cameras, Photographic Films on Spools, Filmpacks, Portrait Films, Cinematographic Films, Sensitized Photographic Papers and Plates.

Claims use since November, 1921.

Ser. No. 158,881. (CLASS 39. CLOTHING.) MILLINTERIA, INC., Chicago, Ill. Filed Feb. 4, 1922.



Applicant disclaims the representation of a hat; also the words "Self Service" and "Millinery Stores" and the mark "5" shown in the drawings except as shown in applicant's trade-mark.

Particular description of goods.—Millinery and Other Headgear, Consisting of Hats and Bonnets.

Claims use since Jan. 27, 1922.

Ser. No. 158,930. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JONES SUPERIOR MACHINE COMPANY, Chicago, Ill. Filed Feb. 6, 1922. Under ten-year proviso.

SUPERIOR

Particular description of goods.—Woodworking Machinery—viz, Saw Tables; Saw Machines, (Band Saws, Scroll Saws, Table Saws, Etc.); Combination Saw and Dado Machines; Wood-Frame Saws, Swing Cut-Off Saws; Boring Machines, Both Single and Multiple Spindle; Sanders (Flange, Drum, Cone, Belt, Etc.); Box Saws, Both Rip and Crosscut; Safety Cylinder Heads; Box Saws, Both Cutting and Grooving; Lock-Corner-Cutting Machines, Wood-Turning Lathes; Guards for Band Saws, Ripsaws, Crosscut Saws, Shapers, Jointers, Emery Wheels, Tenoning Machines, Etc.; Saw Sets, Saw-Filing Vises; Dado Heads, Both Solid and Expansion; Band-Saw Guides, Saw Arbors, Box Rollers and Track; Bits (Handhole, Machine, Stair Router, Screw Shank); Mortiser Chisels, and Hollow Chisels and Bits.

Claims use since about 1890.

Ser. No. 159,071. (CLASS 39. CLOTHING.) R. H. WHITE, COMPANY, Boston, Mass. Filed Feb. 8, 1922.

VOGUE

No registration rights are claimed for the word "Vogue" apart from the mark shown in the drawing; but applicant waives none of its common-law rights in said mark or any element thereof.

Particular description of goods.—Corsets, Brassières, Hats, Caps, and Women's and Children's Dresses and Waists.

Claims use since Jan. 25, 1911.

Ser. No. 150,107. (CLASS 38. PRINTS AND PUBLICATIONS.) THE RADIUM COMPANY OF COLORADO, Denver, Colo. Filed Feb. 9, 1922.

The RADIUM THERAPIST

Particular description of goods.—Monthly Medical Journal.
Claims use since Jan. 14, 1922.

Ser. No. 159,181. (CLASS 39. CLOTHING.) SOPKIN BROTHERS, Chicago, Ill. Filed Feb. 10, 1922.

My Lady APRONS

No claim is made to the word "Apron" as appearing in the drawing.
Particular description of goods.—Aprons and Apron Dresses.
Claims use since Jan. 28, 1922.

Ser. No. 159,235. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CITY DAIRIES COMPANY, St. Louis, Mo. Filed Feb. 11, 1922.

"DELUXE"

Particular description of goods.—Ice Cream.
Claims use since Feb. 20, 1920.

Ser. No. 159,242. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERGMAN SPECIALTY CO., New York, N. Y. Filed Feb. 13, 1922.



Particular description of goods.—Plumbers' Soil.
Claims use since Jan. 1, 1922.

Ser. No. 159,287. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HERBERT N. SEARLES, New York, N. Y. Filed Feb. 13, 1922.

Cir-Cool

Particular description of goods.—Coolers.
Claims use since July 14, 1921.

Ser. No. 159,362. (CLASS 39. CLOTHING.) LOUISVILLE FURNISHING GOODS CO., Louisville, Ky. Filed Feb. 15, 1922.

"ENGINEER'S FRIEND"



No claim is made to the words "Standard Brand" apart from the mark shown in drawing.
Particular description of goods.—Overalls.
Claims use since Jan. 19, 1922.

Ser. No. 159,385. (CLASS 39. CLOTHING.) NATALIE, Washington, D. C. Filed Feb. 15, 1922.

Barbara

Particular description of goods.—Children's Dresses.
Claims use since Feb. 1, 1921.

Ser. No. 159,413. (CLASS 39. CLOTHING.) EARL & WILSON, Troy, N. Y. Filed Feb. 16, 1922.

SKIBO

Particular description of goods.—Negligee and Dress Shirts and Waistcoats.
Claims use since Nov. 15, 1921.

Ser. No. 159,425. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN MACDONALD & SON LIMITED, Glasgow, Scotland. Filed Feb. 16, 1922.

AJAX

Particular description of goods.—Foundry Molding Machines.
Claims use since Apr. 10, 1910.

Ser. No. 159,433. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FANNIE S. SPITZ, Albuquerque, N. Mex. Filed Feb. 16, 1922.



No claim is made for the words "Trade-Mark" or "Product" apart from the environment illustrated.
Particular description of goods.—Shelled, Raw, Roasted, and Salted Pinon Nuts.
Claims use since Aug. 31, 1919.

Ser. No. 159,434. (CLASS 38. PRINTS AND PUBLICATIONS.) SKOOKUM PACKERS ASSOCIATION, Seattle and Wenatchee, Wash. Filed Feb. 16, 1922.



Particular description of goods.—Monthly Publication.
Claims use since July 26, 1920.

Ser. No. 159,519. (CLASS 38. PRINTS AND PUBLICATIONS.) METHODIST CHILD WELFARE SOCIETY, New York, N. Y. Filed Feb. 18, 1922.

ROUGH & BROWN PRESS

Particular description of goods.—Books, Pamphlets, and Like Printed Publications Which are Published Occasionally or as May Happen From Time to Time.
Claims use since April 15, 1921.

Ser. No. 159,555. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOS. L. BREDAR, Rock Island, Ill. Filed Feb. 20, 1922.



No claim is made to the words "Ball" and "Shim" apart from the mark shown in the drawing.
Particular description of goods.—Shims.
Claims use since Oct. 15, 1921.

Ser. No. 159,557. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOSTON DETACHABLE POINT PICK CO., Boston, Mass. Filed Feb. 20, 1922.

BOSPICK

Particular description of goods.—Pick Heads.
Claims use since Dec. 7, 1921.

Ser. No. 159,660. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE MELYN TIN PLATE COMPANY, LIMITED, Neath, Wales. Filed Feb. 21, 1922.

MELYN

Particular description of goods.—Tin Plates.
Claims use since Jan. 1, 1870.

Ser. No. 159,661. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE MELYN TIN PLATE COMPANY, LIMITED, Neath, Wales. Filed Feb. 21, 1922. Under ten-year proviso.

CYMRO

Particular description of goods.—Tin Plates.
Claims use since Jan. 1, 1870.

Ser. No. 159,662. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE MELYN TIN PLATE COMPANY, LIMITED, Neath, Wales. Filed Feb. 21, 1922. Under ten-year proviso.

KCB

Particular description of goods.—Tin Plates.
Claims use since Jan. 1, 1870.

Ser. No. 159,681. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EFFIE M. BARNETT, Pasadena, Calif. Filed Feb. 23, 1922.

TRADE MARK G B O S H

No claim is made to the words "Trade-Mark."
Particular description of goods.—Preparation for Growing Hair.
Claims use since Dec. 1, 1921.

Ser. No. 159,742. (CLASS 39. CLOTHING.) THE CAHILL SHOE COMPANY, Cincinnati, Ohio. Filed Feb. 24, 1922.

CAHILL'S
ANATOMICALLY CORRECT
IT BRACES
ARCH BRACE

No claim is made to the words "Anatomically Correct," "It Braces," and "Arch Brace," apart from the mark shown in the drawing.
Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, and Fabric Construction.
Claims use since Dec. 15, 1921.

Ser. No. 159,817. (CLASS 39. CLOTHING.) STRAWBRIDGE & CLOTHIER, Philadelphia, Pa. Filed Feb. 25, 1922.

Kickham

Particular description of goods.—Men's, Young Men's, and Boys' Hats and Caps.
Claims use since Jan. 16, 1922.

Ser. No. 159,849. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TONY JOHN CUZALINA, Hartshorne, Okla. Filed Feb. 27, 1922.

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Particular description of goods.—Medicine for Coughs and Colds.
Claims use since about June 1, 1920.

Ser. No. 159,907. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM H. WADE, Chicago, Ill. Filed Feb. 27, 1922.

Impresad

Particular description of goods.—Stamping and Marking Devices for Marking Articles for Sale.
Claims use since Jan. 2, 1922.

Ser. No. 159,971. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JORDAN MARSH COMPANY, Boston, Mass. Filed Feb. 28, 1922.

"Avona"

Particular description of goods.—Carpet Sweepers.
Claims use since Sept. 30, 1921.

Ser. No. 160,004. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE ELECTRO ALLOYS COMPANY, Elyria, Ohio. Filed Mar. 1, 1922.

THERMALLOY

Trade-mark "Thermalloy."
Particular description of goods.—High-Temperature Metal Castings.
Claims use since Jan. 1, 1921.

Ser. No. 160,062. (CLASS 39. CLOTHING.) HORACE H. HESS, Pine Grove, Pa. Filed Mar. 2, 1922.



Particular description of goods.—Textile-Fabric Underwear Consisting of One and Two Piece Garments for Men, Women, and Children.
Claims use since July 1, 1921.

Ser. No. 160,152. (CLASS 39. CLOTHING.) ROBERT REIS & CO., New York, N. Y. Filed Mar. 3, 1922.

JIMPANT

Particular description of goods.—Running Pants.
Claims use since January, 1922.

Ser. No. 160,158. (CLASS 39. CLOTHING.) A. W. SMITH SHOE COMPANY, Boston, Mass. Filed Mar. 3, 1922.



The color of the trade-mark is blue.
Particular description of goods.—Boots and Shoes of Leather, Rubber, or Fabric.
Claims use since Mar. 1, 1922.

Ser. No. 160,159. (CLASS 39. CLOTHING.) A. W. SMITH SHOE COMPANY, Boston, Mass. Filed Mar. 3, 1922.

BLUE BEAR

Particular description of goods.—Boots and Shoes of Leather, Rubber, or Fabric.
Claims use since Mar. 1, 1922.

Ser. No. 160,212. (CLASS 25. LOCKS AND SAFES.) STEEL CAN'T STEAL BOX CORPORATION, New York, N. Y. Filed Mar. 4, 1922.



No claim made to the words "Steel-Can't Steal Safety Box" apart from the mark shown in drawing.

Particular description of goods.—Safety Boxes for Valuables.

Claims use since Dec. 15, 1921.

Ser. No. 160,241. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FOOTE-BURT COMPANY, Cleveland, Ohio. Filed Mar. 6, 1922.



Particular description of goods.—Single-Spindle Drilling Machines, Multiple-Spindle Drilling Machines, Adjustable-Spindle Drilling Machines, High-Duty Drilling Machines, Independent-Feed Drilling Machines, Gang Drilling Machines, Way Drilling Machines, and Inverted Drilling Machines, Boiler-Shell Drills, Way-Tapping Machines, Way Reaming Machines, Piston-Turning Machines, Continuous Turning Machines, Cylinder-Boring Machines, Cylinder Reaming Machines, Valve-Boring Machines, Valve-Grinding Machines, Mud-Ring and Flue-Sheet Drills.

Claims use since on or about Dec. 1, 1921.

Ser. No. 160,256. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GEORGE POULOS, Chicago, Ill. Filed Mar. 6, 1922.



Particular description of goods.—Concentrated Maltless Sirup to be Used as a Flavor in a Nonalcoholic Beverage.

Claims use since Sept. 15, 1921.

Ser. No. 160,285. (CLASS 39. CLOTHING.) THEODORE F. EMANS, Chicago, Ill. Filed Mar. 7, 1922.



Particular description of goods.—Men's, Women's, Misses', and Children's Shoes of Leather, of Fabric, and of Combinations of Leather and Fabric.

Claims use since June, 1921.

Ser. No. 160,382. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) S. BEAUMONT & FILS, Roubaix, France. Filed Mar. 9, 1922.



The representation of a hairpin is hereby disclaimed except in association with the mark as shown.

Particular description of goods.—Hairpins.

Claims use since Mar. 5, 1912.

Ser. No. 160,629. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM T. PALMER & COMPANY, Inc., New York, N. Y. Filed Mar. 13, 1922.



Particular description of goods.—Hair Nets.

Claims use since November, 1921.

Ser. No. 160,653. (CLASS 39. CLOTHING.) JOHN BRIGHT SHOE STORES CO., Bridgewater, Mass. Filed Mar. 14, 1922.



The lining shown on the drawing indicates shading. No claim is made for the use of the word "Shoe" apart from the mark shown.

Particular description of goods.—Leather Boots and Shoes.

Claims use since Feb. 18, 1922.

Ser. No. 160,660. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JOHN E. CABLE, doing business as Edison Rubber Co., Akron, Ohio. Filed Mar. 14, 1922.



Without waiving his common-law rights applicant makes no claim to the words "Are Good Soles" apart from the mark as shown.

Particular description of goods.—Slabs and Sheets of Rubber Composition Material, Particularly for Use in Forming Shoe Soles.

Claims use since on or about Feb. 6, 1922.

Ser. No. 160,724. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STE AN DE COULEURS D'ANILINE ET PRODUCTS CHIMIQUES "S. A. C. A.," Brussels, Belgium. Filed Mar. 15, 1922.



Particular description of goods.—Chemicals and Dyestuffs—Namely, Lithopones, White Zinc, Aniline Dyes, Sulphate of Barium, Products for Dyeing and Finishing Textiles, and Chemical Coloring Materials.

Claims use since Apr. 19, 1920.

Ser. No. 160,782. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. D. WILLIAMS, INC., Brooklyn, N. Y. Filed Mar. 16, 1922.



Particular description of goods.—Raw Skins and Furs.

Claims use since February, 1871.

Ser. No. 160,920. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN RELEASING CORPORATION, New York, N. Y. Filed Mar. 20, 1922.



The drawing shown expresses by shading the lining of the mark as used.

Particular description of goods.—Motion-Picture Films.

Claims use since Dec. 15, 1921.

Ser. No. 160,996. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHESEBROUGH MANUFACTURING CO., CONSOLIDATED, New York, N. Y. Filed Mar. 21, 1922.



No claim is made to the words "Trade Mark," "Petroleum Jelly," and "New York, U. S. A.," apart from the mark shown in drawing.

Particular description of goods.—Petroleum Jelly.

Claims use since about July 1, 1915.

Ser. No. 161,021. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ACME ABRASIVE COMPANY, Chicago, Ill. Filed Mar. 22, 1922.



Particular description of goods.—Grinding and Polishing Stones.

Claims use since September, 1920.

Ser. No. 161,108. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BALTIMORE OPTICAL COMPANY, Baltimore, Md. Filed Mar. 23, 1922.



Particular description of goods.—Ophthalmic Lenses.

Claims use since Jan. 1, 1921.

Ser. No. 161,257. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE JONES STORE CO., Wilmington, Del., and Kansas City, Mo. Filed Mar. 25, 1922.

EVER-NU
99% PURE
ALUMINUM

No claim is made to the words "99% Pure Aluminum" apart from the mark as shown.

Particular description of goods.—Aluminum Cooking Utensils, Consisting of Pans, Kettles, Skillets, Roasters, Saucepans, Cookers, Teakettles, and Percolators.

Claims use since Feb. 27, 1922.

Ser. No. 161,308. (CLASS 39. CLOTHING.) ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed Mar. 27, 1922.

D
DUPLEX
D

Particular description of goods.—Leather Shoes.

Claims use since about Feb. 18, 1922.

Ser. No. 161,311. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GENERAL RAILWAY SIGNAL COMPANY, Rochester, N. Y. Filed Mar. 27, 1922.

G

Particular description of goods.—Metal Forgings and Analogous Metal Manufactures.

Claims use since Apr. 24, 1920.

Ser. No. 161,313. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM F. HAYN, doing business as Vi-Tanika Pharmacal Company, Dayton, Ohio. Filed Mar. 27, 1922.

VITANIKA

No claim is made to the exclusive use of the word "Tablets" apart from the mark shown in drawing.

Particular description of goods.—Pharmaceutical Preparations.

Claims use since Jan. 1, 1912.

Ser. No. 161,357. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNA B. GREEN, Yoakum, Tex. Filed Mar. 28, 1922.

AHB
PREVENTO

Particular description of goods.—Remedies in the Form of Liniments for External Application in the Treatment of Colds, Sore Throat, Hoarseness, Headache, Neuralgia, Stiff Joints, Lame Back, Rheumatism, Bruises, Sprains, Cuts, and Stings.

Claims use since Nov. 7, 1921.

Ser. No. 161,385. (CLASS 39. CLOTHING.) FRANK REDMAN, New York, N. Y. Filed Mar. 28, 1922.

KEYSTONE

Particular description of goods.—Rubber Heels for Shoes.

Claims use since Oct. 1, 1921.

Ser. No. 161,439. (CLASS 29. BROOMS, BRUSHES AND DUSTERS.) LAFAYETTE BRUSH & MANUFACTURING CO., Philadelphia, Pa. Filed Mar. 29, 1922.

Laflexo

Particular description of goods.—Dusting Mops.

Claims use since Jan. 10, 1920.

Ser. No. 161,442. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOSEPH MEER, INC., New York, N. Y. Filed Mar. 29, 1922.

"MASCOTTE BOUDOIR"

Trade-mark consists of the words "Mascotte Boudoir."

Particular description of goods.—Dolls.

Claims use since Jan. 1, 1922.

Ser. No. 161,463. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMY LOUISE VICKERY, doing business as Mirabene Chemical Co., Chicago, Ill. Filed Mar. 29, 1922.

MIRABENE

Particular description of goods.—Eye Medicine.

Claims use since June 1, 1920.

Ser. No. 161,530. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WOLF ELIOWITZ, New York, N. Y. Filed Mar. 31, 1922.

Re-neun

Particular description of goods.—Powder Puffs.

Claims use since Mar. 1, 1922.

Ser. No. 161,555. (CLASS 39. CLOTHING.) H. J. JUSTIN & SONS, Nocona, Tex. Filed Mar. 31, 1922.

JUSTIN'S

Particular description of goods.—Leather Boots and Shoes for Men, Women, and Children.

Claims use since Oct. 15, 1921.

Ser. No. 161,598. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JOHN TAYLOR DRY GOODS CO., Kansas City, Mo. Filed Mar. 31, 1922.

Lu-Cinda

Particular description of goods.—Package Outfit Containing a Ready-Cut Garment, Stamped for Embroidery, and Cotton for Working the Same.

Claims use since Mar. 15, 1920.

Ser. No. 161,712. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WALLACE INSTITUTE, Chicago, Ill. Filed Apr. 3, 1922.

REDUCING

Particular description of goods.—Talking-Machine Records.

Claims use since May 27, 1922.

Ser. No. 161,872. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BACHMEYER-LUTMER PRESS COMPANY, Cincinnati, Ohio. Filed Apr. 7, 1922.

AD-VANTAGE

Particular description of goods.—Pamphlet Published Monthly Exemplifying and Showing the Value of Good and Efficient Printing.

Claims use since Feb. 10, 1918.

Ser. No. 162,034. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MOZELL MANUFACTURING COMPANY, New York, N. Y. Filed Apr. 10, 1922.

SILVERET

Particular description of goods.—Specially-Treated Cloths for Cleaning Silver and Gold.
Claims use since September, 1921.

Ser. No. 162,049. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) POLAND SOAP WORKS, Anniston, Ala. Filed Apr. 10, 1922.

FADES CLEANSER DIRT

No claim is made to the exclusive use of the words "Fades Dirt" and "Cleanser."
Particular description of goods.—Cleanser (Abrasive) for Cleaning Tile, Marble, Terazzo, Porcelain, Aluminum, Metal, and All Enameled Surfaces.
Claims use since May 7, 1921.

Ser. No. 162,090. (CLASS 4. ARRASIVE, DETERGENT, AND POLISHING MATERIALS.) FREDERICK H. YOUNG, doing business as The Frederick H. Young & Co., Toledo, Ohio. Filed Apr. 10, 1922.

VICTORIA

Particular description of goods.—Soaps.
Claims use since 1903.

Ser. No. 162,124. (CLASS 32. FURNITURE, AND UPHOLSTERY.) JAMES MCCREERY & COMPANY, New York, N. Y Filed Apr. 11, 1922.

La Gloire

Particular description of goods.—Picture Frames and Hand Mirrors.
Claims use since Oct. 25, 1921.

Ser. No. 162,129. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MIRROLIKE MFG. CO., Long Island City, N. Y. Filed Apr. 11, 1922.

MIRROLIKE

Particular description of goods.—Soap Cleaners for the Removal of Spots and Stains on Fabrics and Leather and Tar Road Oil and Carbon Remover.
Claims use since Apr. 1, 1915.

Ser. No. 162,244. (CLASS 39. CLOTHING.) CRADDOCK TERRY COMPANY, Lynchburg, Va. Filed Apr. 13, 1922.

Patsy Sandal

No claim is made to the use of the word "Sandal" apart from the mark shown in drawing.
Particular description of goods.—Women's and Children's Shoes of Leather, or a Combination of Leather, Rubber, or Fabric.
Claims use since Feb. 5, 1922.

Ser. No. 162,259. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LAFAYETTE BRUSH & MANUFACTURING CO., Philadelphia, Pa. Filed Apr. 13, 1922.

LAFAYETTE

Particular description of goods.—Brushes and Brooms, Including Button Brushes, Bowl or Hopper Brushes, Scouring Brushes, Sink Brushes, Clothes Brushes, Comb-Cleaning Brushes, Cuspidor or Bedpan Brushes, Hairbrushes, Hat Brushes, Hearth Brushes, Ice-Chest or Pipe Brushes, Radiator Brushes, Register Brushes, Shampoo Brushes, Bottle Brushes, Cloak Brushes, Crumb Brushes, Dental Plate Brushes, Manicure Brushes, Massage Brushes, Pastry Brushes, Percolator Brushes, Phonograph-Record Brushes, Flesh Brushes, Hand Brushes, Complexion Brushes, Shower-Bath Brushes, Auto Wire-Wheel Brushes, Fountain Auto Washer Brushes, Mud-Guard Brushes, Hair Sweep Brushes, Besides Dish Mops and Hand Dusters.
Claims use since Jan. 10, 1920.

Ser. No. 162,332. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HERMANN LEROY BEAVER, Philadelphia, Pa. Filed Apr. 15, 1922.

Pebs

Particular description of goods.—Polishing or Burnishing Material for Metal Parts, Consisting of Small Polished-Steel Globules.
Claims use since October, 1920.

Ser. No. 162,337. (CLASS 38. PRINTS AND PUBLICATIONS.) HEATING AND VENTILATING MAGAZINE CO., New York, N. Y. Filed Apr. 15, 1922.

The Heating Ventilating Magazine

Particular description of goods.—Monthly Magazine.
Claims use since June, 1904.

Ser. No. 162,386. (CLASS 39. CLOTHING.) OLIVER E. DE ROSIER, Rochester, N. Y. Filed Apr. 17, 1922.

SOLEMOULD

Trade-mark "Sole Mould."
Particular description of goods.—Shoes Made Wholly of Leather.
Claims use since Dec. 1, 1921.

Ser. No. 162,485. (CLASS 38. PRINTS AND PUBLICATIONS.) CHEEVER K. DODGE, Mamaroneck, N. Y. Filed Apr. 18, 1922.

BKUMA YRLSBUG

Particular description of goods.—Code-Memorizing Charts for Radio Beginners and Pamphlets and Books Relating to Radiotelegraphy Published from Time to Time.
Claims use since July, 1921.

Ser. No. 162,503. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RAYMOND G. POTTER, Worcester, N. Y. Filed Apr. 18, 1922.

POTTER'S TRANSPARO



Particular description of goods.—Liquid Preparation Designed to Prevent Automobile Windshields from Becoming Coated Over with Rain, Snow, Steam, or Frost.
Claims use since Jan. 28, 1922.

Ser. No. 162,585. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) RICHARD CLIPSTON STURGIS, Boston, Mass. Filed Apr. 19, 1922.

THE PRISCILLA PADDLE STICK

Trade-mark "The Priscilla Paddle Stick."
Particular description of goods.—Hand Fire Fans for Fanning Open Fires.
Claims use since Apr. 14, 1922.

Ser. No. 162,737. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HAYES & MESEROLE MFG. CO., Milford, Conn. Filed Apr. 22, 1922.

TRY-ON-A

Particular description of goods.—Hair Wavers.
Claims use since Mar. 20, 1922.

Ser. No. 162,794. (CLASS 38. PRINTS AND PUBLICATIONS.) THE "ASSOCIATES," New York, N. Y. Filed Apr. 24, 1922.

RETAILERS' BUYING GUIDE

Trade-mark "Retailers' Buying Guide."
Particular description of goods.—Biweekly Publications.
Claims use since Jan. 13, 1922.

Ser. No. 162,831. (CLASS 38. PRINTS AND PUBLICATIONS.) G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Apr. 24, 1922.

WEBSTER'S NEW INTERNATIONAL

Particular description of goods.—Dictionaries Which are Published from Time to Time.
Claims use since Sept. 17, 1909.

Ser. No. 162,850. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) POLAND SOAP WORKS, Anniston, Ala. Filed Apr. 24, 1922.

SURE DOES WASHING POWDER MAKE SUDS

No claim is made to the exclusive use of the words "Sure Does Make Suds," and "Washing Powder," apart from the mark shown on drawing.
Particular description of goods.—Washing Powder for Cleaning Anything That Soap and Water Will Clean.
Claims use since May 7, 1921.

Ser. No. 162,961. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WECHSLER BARBER SILK CO., INC., New York, N. Y. Filed Apr. 26, 1922.

KYAM KREPE

No claim is made to the word "Krepe" apart from the mark shown in drawing.
Particular description of goods.—Silk and Silk-Mixture Fabrics in the Piece.
Claims use since about June, 1921.

Ser. No. 163,035. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis. Filed Apr. 28, 1922.

"Dreadnaught"

Particular description of goods.—Attachment Plugs.
Claims use since on or about Oct. 28, 1921.

Ser. No. 163,036. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DUBILIER CONDENSER CO., INC., New York, N. Y. Filed Apr. 28, 1922.

MICADONS

Particular description of goods.—Electrical Condensers.
Claims use since Mar. 28, 1922.

Ser. No. 163,039. (CLASS 38. PRINTS AND PUBLICATIONS.) DELL PUBLISHING CO., INC., New York, N. Y. Filed Apr. 28, 1922.

"I Confess" A MAGAZINE of Personal Experiences

The company hereby disclaims the words "A Magazine of Personal Experiences" as a part of the trade-mark. Trade-mark "I Confess."
Particular description of goods.—Magazine.
Claims use since Jan. 14, 1922.

Ser. No. 163,060. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TUBULAR WOVEN FABRIC COMPANY, Pawtucket, R. I. Filed Apr. 28, 1922.

DURASNAP

Particular description of goods.—Electrical Box Connectors.
Claims use since Mar. 25, 1922.

Ser. No. 163,108. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PURITY BEVERAGE COMPANY, Maywood, Ill. Filed Apr. 29, 1922.

LILYPURE

Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since June 1, 1921.

Ser. No. 163,190. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) STEWART & HOLMES DRUG CO., Seattle, Wash. Filed May 1, 1922.

OPTIMUS

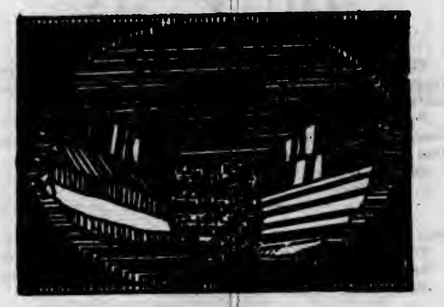
Particular description of goods.—Toothbrushes, Hairbrushes, Lather or Shaving Brushes, and Bath Brushes.
Claims use since Jan. 1, 1908.

Ser. No. 163,305. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ARMAND COMPANY, Des Moines, Iowa. Filed May 4, 1922.



The lines appearing in the drawing are intended for purpose of shading only.
Particular description of goods.—Hair Nets.
Claims use since Feb. 1, 1922.

Ser. No. 163,351. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PACKER MANUFACTURING COMPANY, INC., New York, N. Y. Filed May 4, 1922. Under ten-year proviso.



The lines in the drawing are for shading only.
Particular description of goods.—Soap.
Claims use since Oct. 1, 1877.

Ser. No. 163,423. (CLASS 38. PRINTS AND PUBLICATIONS.) WESTERN MACHINERY WORLD, San Francisco, Calif. Filed May 5, 1922.

WESTERN MACHINERY WORLD

Particular description of goods.—Monthly Magazine.
Claims use since June, 1901.

Ser. No. 163,432. (CLASS 12. CONSTRUCTION MATERIALS.) CUTLER-MAGNER CO., Duluth, Minn. Filed May 6, 1922.

STONEWALL

Particular description of goods.—Cement, Plaster, Wood-Fiber Plaster, Portland Cement, Stucco, Gypsum Finish, Plaster Board, Gypsum Board, Gypsum Tile, Gypsum, Partition Blocks, Prepared Plaster, Prepared Gypsum Finishes, Moulding, and Casting Plasters.
Claims use since April, 1922.

Ser. No. 163,452. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) J. L. LOHFELD & CO. INC., New York, N. Y. Filed May 6, 1922.

TWIN ℄ BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Wires for Conducting Electricity.
Claims use since Apr. 22, 1922.

Ser. No. 163,455. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RALPH A. MCKINNEY, Pittsburgh, Pa. Filed May 6, 1922.

ETHEROLA

Particular description of goods.—Wireless Receiving Outfits in One Complete Unit Inclosed in a Cabinet.
Claims use since Feb. 1, 1922.

Ser. No. 163,499. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHICAGO SOAP PRODUCTS COMPANY, Chicago, Ill. Filed May 8, 1922.

TEX

Particular description of goods.—Soap Flakes.
Claims use since Apr. 1, 1922.

Ser. No. 163,544. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) SOMERVILLE BRUSH COMPANY, Somerville, Mass. Filed May 8, 1922.

SUM-VIL

Particular description of goods.—Mops, Dusters, and Household Brushes—Namely, Bath Brushes, Hand Brushes, Flesh Brushes, Hairbrushes, Cloth Brushes, Manicure Brushes, Complexion Brushes, Toothbrushes,

Dish-Washing Brushes, Bowl Brushes, Vase Brushes, Bottle Brushes, Sink Brushes, Bathtub Brushes, Record Brushes, Tin-Greaser Brushes, Crumb Brushes, Shampoo Brushes, Milk-Bottle Brushes, Jar Brushes, Bedpan Brushes, Urinal Brushes, Scouring Brushes, Window Brushes and Driers, Wall Brushes, Hearth Brushes, Utility Brushes, Button Brushes, Skirt Brushes, Stove Brushes and Daubers, Shoe Brushes, Ice-Chest Brushes, Rradiator Brushes, Crevice Brushes, Percolator Brushes, Test-Tube Brushes, Typewriter Brushes, Automobile Brushes, Toilet Brushes, Pan Brushes, Scrub Brushes, Hand Dusters, Stove Dusters, Dish Mops, and Comb Cleaners.

Claims use since Apr. 20, 1922.

Ser. No. 163,558. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) YORK MFG. CO., Saco, Me., and Boston, Mass. Filed May 8, 1922.

York No. 10

The words "York No. 10" are printed and filled in in black.

Particular description of goods.—Cotton Piece Goods.

Claims use since May, 1915.

Ser. No. 163,560. (CLASS 38. PRINTS AND PUBLICATIONS.) KATE E. ANDERSON, Baltimore, Md. Filed May 9, 1922. Under ten-year proviso.

Perkins Studio

Particular description of goods.—Photographic Prints.

Claims use since 1844.

Ser. No. 163,624. (CLASS 38. PRINTS AND PUBLICATIONS.) THE FULLER BRUSH COMPANY, Hartford, Conn. Filed May 10, 1922.

THE FULLER BRISTLER

Particular description of goods.—Periodical Published Monthly.

Claims use since October, 1916.

Ser. No. 163,642. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MAGNETIC DRINK MIXER COMPANY, Boston, Mass. Filed May 10, 1922.

MAGNETIC

Particular description of goods.—Electrical Drink Mixers.

Claims use since May 1, 1922.

Ser. No. 163,681. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KAMMER & REINHARDT A. G., Waltershausen, Thuringen, Germany. Filed May 11, 1922.

HEINRICH HANDWERCK

The right to the exclusive use of the words "Eingetragene Fabrikmarke" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Toys and Playthings—Namely, Dolls, Doll Heads, Doll Bodies, Doll Members, Doll Clothes, and Doll Hair Dress and Wigs.

Claims use since 1902.

Ser. No. 163,713. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MILTON H. SHOENBERG, doing business as The Litit Co., San Francisco, Calif. Filed May 11, 1922.

LITIT

Trade-mark "Litit."

Particular description of goods.—Electric Cigar Lighter.

Claims use since Feb. 1, 1922.

Ser. No. 163,718. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRESTLE BOARD, San Francisco, Calif. Filed May 11, 1922.

THE TRESTLE BOARD

"The Trestle Board."

Particular description of goods.—Monthly Magazine.

Claims use since 1887.

Ser. No. 163,904. (CLASS 37. PAPER AND STATIONERY.) THE ULLMAN MANUFACTURING CO., New York, N. Y. Filed May 15, 1922.

PRISCILLA CRAYON

Trade-mark "Priscilla Crayon," no claim being made to the word "Crayon" apart from the mark shown in the drawing.

Particular description of goods.—Black and Colored Crayons and the Labels of Same Used on the Crayons and in Boxes, Receptacles, and Packages Containing the Same.

Claims use since Feb. 6, 1922.

Ser. No. 164,117. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LOUIS L. RAPPAPORT, doing business as Lissenin Radio Parts Co., Ridgefield Park, N. J. Filed May 19, 1922.

LISSENIN

Particular description of goods.—Radio Receiving Sets.

Claims use since Jan. 20, 1922.

Ser. No. 164,164. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HATFIELD & BELL, Brooklyn, N. Y. Filed May 20, 1922.



OWL'S HEAD

Particular description of goods.—Ginger-Ale, Lemon Soda, and Sarsaparilla.

Claims use since July 15, 1912.

Ser. No. 164,249. (CLASS 38. PRINTS AND PUBLICATIONS.) ROLAND B. HENNESSY, doing business as Radio World Company, New York, N. Y. Filed May 22, 1922.

RADIO WORLD

Particular description of goods.—Weekly Publication.

Claims use since Apr. 1, 1922.

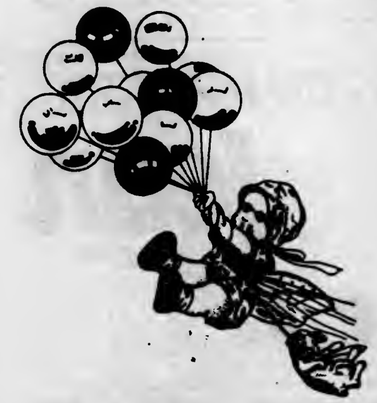
Ser. No. 164,303. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) E. H. BEHRENS & CO. INC., New York, N. Y. Filed May 23, 1922.

DRAPECRAFT

Particular description of goods.—Drapery Fabrics, Draperies, Piece Goods of Cotton Warp with Artificial-Silk Filling for Drapery Cloth, Piece Goods of Cotton Warp with Canton-Silk Filling for Drapery Cloth, and Piece Goods of Silk Warp with Cotton Filling for Drapery Cloth.

Claims use since about May 13, 1922.

Ser. No. 164,311. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE EAGLE RUBBER CO., Ashland, Ohio. Filed May 23, 1922.



No claim is made to the exclusive use of the conventionalized representation of the balloons apart from the mark as shown on drawing.

Particular description of goods.—Toy Balloons.

Claims use since about Nov. 3, 1919.

Ser. No. 164,369. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim made to the exclusive use of the representation of the fish and line nor to the words "Brand," "Selected Quality Japan Silk," "Flexible," "Durable," "Quality

First," "Peerless Process," and "Enameled Line," apart from the mark as shown on the drawing.

Particular description of goods.—Enameled Japan-Silk Fishing Lines.

Claims use since Aug. 22, 1917.

Ser. No. 164,388. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO., INC., Cortland, N. Y. Filed May 24, 1922.

Casting Line | HONEST ABE | 50 Yds. | NONE BETTER | No. 0 | Test 18 | Exceptional

No claim is made to the exclusive use of the words "Casting Line, Exceptional, 50 Yds., None Better, No. 0, Test 18," apart from the mark as shown in drawing.

Particular description of goods.—Fishing Lines.

Claims use since Apr. 29, 1916.

Ser. No. 164,426. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.

Jean

The lines in drawing indicate shading only.

Particular description of goods.—Powder Puffs.

Claims use since May 5, 1922.

Ser. No. 164,438. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) J. ROY HUNT, INC., Long Island City and Astoria, N. Y. Filed May 24, 1922.

"SOCOSTAT"

Particular description of goods—Radio-Tube Mounting.

Claims use since Apr. 15, 1922.

Ser. No. 164,671. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SCHWARZENBACH HUBER CO., West Hoboken, N. J., and New York, N. Y. Filed May 29, 1922.

Town and Country

Particular description of goods.—Broad Silks in the Piece.

Claims use since May 11, 1922.

Ser. No. 164,697. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DE WITT-LA FRANCE CO., Cambridge, Mass. Filed May 31, 1922.

SUPERADIO

Particular description of goods.—Radio Receiving Sets and Sending Sets and Parts Thereof.

Claims use since May 10, 1922.

Ser. No. 164,700. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) EMIL FULLER, New York, N. Y. Filed May 31, 1922.



Particular description of goods.—Powder Puffs.

Claims use since Dec. 1, 1921.

Ser. No. 164,747. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BUTTERICK PUBLISHING COMPANY, New York, N. Y. Filed June 1, 1922.

Good Hardware

Particular description of goods.—Monthly Periodical.

Claims use since January, 1920.

Ser. No. 164,800. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHAMPION RADIO CO., Detroit, Mich. Filed June 2, 1922.

Champion

Particular description of goods.—Radio Telephone Jacks and Plugs and Radio Bulb Sockets.

Claims use since Apr. 6, 1922.

Ser. No. 164,832. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO CORPORATION OF AMERICA, New York, N. Y. Filed June 2, 1922.

MINATRON

Particular description of goods.—Electrical Vacuum Tubes and Valves.

Claims use since May 27, 1922.

Ser. No. 164,833. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO CORPORATION OF AMERICA, New York, N. Y. Filed June 2, 1922.

RADIOLETTE

Particular description of goods.—Electrical Vacuum Tubes and Valves.

Claims use since May 27, 1922.

Ser. No. 164,884. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

DORCAS

FIELD QUALITY

Particular description of goods.—Bedspreads and Pillow Shams.

Claims use since 1901.

Ser. No. 164,886. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

MARTHA WASHINGTON

FIELD QUALITY

Particular description of goods.—Bedspreads and Pillow Shams.

Claims use since 1909.

Ser. No. 164,887. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

No. 1234

FIELD QUALITY

Particular description of goods.—Bedspreads and Pillow Shams.

Claims use since 1909.

Ser. No. 164,889. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

BRIDESMAID



The picture of girl in drawing is fanciful.

Particular description of goods.—Bedspreads and Pillow Shams.

Claims use since 1909.

Ser. No. 164,890. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

HAMPSHIRE



Particular description of goods.—Bedspreads and Pillow Shams.

Claims use since 1901.

Ser. No. 164,924. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KEN-WEL SPORTING GOODS COMPANY, Gloversville, N. Y. Filed June 3, 1922.

BOY'S DELIGHT

Particular description of goods.—Combination Package of Boys' Athletic Goods Consisting of Boxing Gloves, Joy Ball, Rugby Football, and Rugby-Football Bladder.
Claims use since Sept. 1, 1921.

Ser. No. 165,041. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. SILVERMAN & SON, Philadelphia, Pa. Filed June 5, 1922.

SILVER SPRING MILLS

The star in trade-mark is shaded to indicate green.
Particular description of goods.—Cotton Piece Goods and Woolen Dress Goods.
Claims use since 1905.

Ser. No. 165,059. (CLASS 38. PRINTS AND PUBLICATIONS.) THE LOUISVILLE TIMES COMPANY, Louisville, Ky. Filed June 6, 1922.

THE LOUISVILLE TIMES.

Particular description of goods.—Afternoon Paper Published Daily.
Claims use since May 1, 1884.

Ser. No. 165,066. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DUFFY-MOTT COMPANY, INC., New York, N. Y. Filed June 6, 1922. Under ten-year proviso.

DUFFY

Trade-mark consists of the word "Duffy."
Particular description of goods.—Ciders and Fruit Juices.
Claims use since about 1842.

Ser. No. 165,069. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DUFFY-MOTT COMPANY, INC., New York, N. Y. Filed June 6, 1922. Under ten-year proviso.

HOLLEY

Trade-mark consists of the word "Holley."
Particular description of goods.—Ciders.
Claims use since about 1883.

Ser. No. 165,071. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DUFFY-MOTT COMPANY, INC., New York, N. Y. Filed June 6, 1922.

GOLD SEAL

Trade-mark consists of the words "Gold Seal" in combination with a representation of a gold seal. The representation of seal is of golden color.
Particular description of goods.—Ciders.
Claims use since about 1842.

Ser. No. 165,073. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DUFFY-MOTT COMPANY, INC., New York, N. Y. Filed June 6, 1922. Under ten-year proviso.

WARD

Trade-mark consists of the word "Ward."
Particular description of goods.—Ciders.
Claims use since about 1883.

Ser. No. 165,075. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DUFFY-MOTT COMPANY, INC., New York, N. Y. Filed June 6, 1922. Under ten-year proviso.

BEACH

Trade-mark consists of the word "Beach."
Particular description of goods.—Ciders.
Claims use since about 1885.

Ser. No. 165,195. (CLASS 38. PRINTS AND PUBLICATIONS.) RAYMOND KANOFSKY, doing business as Radio Builder Pub. Co., New York, N. Y. Filed June 8, 1922.

RADIO BUILDER

Particular description of goods.—Magazines.
Claims use since June 6, 1922.

Ser. No. 165,198. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MEIROWSKY BROTHERS, Jersey City, N. J. Filed June 8, 1922.

KAPACITON

Particular description of goods.—Electrical Condensers.
Claims use since May 1, 1922.

Ser. No. 165,208. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FRANK H. ROSEMAN, doing business as General Radio Manufacturing Company, Pittsburgh, Pa. Filed June 8, 1922.

Protex

Particular description of goods.—Wireless Antenna Plug.
Claims use since Sept. 30, 1921.

Ser. No. 165,233. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE FAULTLESS RUBBER COMPANY, Ashland, Ohio. Filed June 9, 1922.

"FAST FLIGHT"

Particular description of goods.—Playing Balls Formed of Rubber and Its Compounds—Namely, Golf Balls.
Claims use since Apr. 24, 1922.

Ser. No. 165,321. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed June 10, 1922.

VOCAROLA

Particular description of goods.—Radio Telephone and Telegraph Loud Speakers and Amplifiers.
Claims use since Dec. 1, 1921.

Ser. No. 165,381. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE INDEPENDENT BREWERIES COMPANY, St. Louis, Mo. Filed June 12, 1922.

I.B.C.

Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups Used in Preparation of the Same.
Claims use since Apr. 28, 1922.

Ser. No. 165,425. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. CO., Burr Oak, Mich. Filed June 12, 1922.

O BOY

Particular description of goods.—Velocipedes.
Claims use since December, 1921.

Ser. No. 165,433. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE UNION BATTERY CO., Swissvale, Pa. Filed June 12, 1922.

WUBCO

Particular description of goods.—Secondary Batteries and Connectors Therefor and Battery Charges.
Claims use since Mar. 10, 1922, upon battery charges; since May 29, 1922, upon secondary batteries and connectors therefor.

Ser. No. 165,442. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ELIA GABAY & Co., New York, N. Y. Filed June 13, 1922.

GABILA

Particular description of goods.—Nonalcoholic Maltless Beverages Sold as Soft Drinks.
Claims use since June 1, 1922.

Ser. No. 165,446. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHARLES KOCH, Hoboken, N. J. Filed June 13, 1922.

AMAROC



Particular description of goods.—Nonalcoholic, Non cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since May 1, 1919.

Ser. No. 165,469. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WESTERN FRUIT PRODUCTS CO., Dubuque, Iowa. Filed June 13, 1922.

Vin-Rou

Particular description of goods.—Nonalcoholic, Maltless Fruit-Juice Beverage.
Claims use since on or about May 1, 1922.

Ser. No. 165,492. (CLASS 38. PRINTS AND PUBLICATIONS.) THE GREEK CONFECTIONER PUBLISHING CO., Chicago, Ill. Filed June 14, 1922.

Ο ΕΛΛΗΝ
ΖΑΧΑΡΟΠΛΑΣΤΗΣ
THE GREEK CONFECTIONER

Particular description of goods.—Monthly Publication.
Claims use since May 16, 1922.

Ser. No. 165,564. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED SELIGMANN, Seguin, Tex. Filed June 15, 1922.

SELIGZEMO

Particular description of goods.—Ointment Used in the Treatment of Eczema.
Claims use since Jan. 1, 1922.

Ser. No. 165,565. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED SELIGMANN, Seguin, Tex. Filed June 15, 1922.

SELIGZEPO

Particular description of goods.—Powder Used in the Treatment of Eczema.
Claims use since Jan. 1, 1922.

Ser. No. 165,573. (CLASS 37. PAPER AND STATIONERY.) UNITED STATES PAPER MILLS, INC., Chambersburg, Pa., and New York, N. Y. Filed June 15, 1922.

"JUSTWUN"

Particular description of goods.—Paper Toweling and Paper Napkins.
Claims use since 1916.

Ser. No. 165,606. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J. Filed June 16, 1922. Under section 9 of the act of Mar. 19, 1920.

SINGER

Particular description of goods.—Electric Fans.
Claims use since about March, 1921.

Ser. No. 165,623. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DUBILIER CONDENSER & RADIO CORPORATION, New York, N. Y. Filed June 17, 1922.

DUCON

Particular description of goods.—Electrical Apparatus More Particularly for Condensers for Radio Telephone and Telegraph Purposes.
Claims use since on or about May 20, 1922.

Ser. No. 165,657. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALLEN-BRADLEY COMPANY, Milwaukee, Wis. Filed June 19, 1922.

RADIOSTAT

Particular description of goods.—Electrical Controlling Devices of the Compression-Resistor Type.
Claims use since Apr. 1, 1922.

Ser. No. 165,709. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PACENT ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed June 19, 1922.

UNIVERSAL

Particular description of goods.—Electrical Apparatus More Particularly for Connector Plugs for Radio Telephone and Telegraph and Similar Purposes.
Claims use since May 18, 1921.

Ser. No. 165,880. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & Co. INC., New York, N. Y. Filed June 22, 1922.



No claim is made to the word "Yds" as shown in the drawing.
Particular description of goods.—Woven Cotton Piece Goods—Namely, Colored Drills, Flannels, Dometts, and Napped Cotton Goods.
Claims use since Oct. 15, 1919.

Ser. No. 165,961. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LESTER KULP, doing business as Mid-West Lamp Co., Chicago, Ill. Filed June 23, 1922.



No claim is made to the words "Nitrogen," "Tungsten," or "Carbon" or the representation of an electric lamp apart from the mark as shown.
Particular description of goods.—Electric Lamps.
Claims use since Apr. 3, 1922.

Ser. No. 165,974. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed June 23, 1922.

WECO

Particular description of goods.—Powder Puffs.
Claims use since Jan. 30, 1922.

Ser. No. 166,023. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed June 24, 1922.



Trade-mark "Wireless."
Particular description of goods.—Playing Cards.
Claims use since Apr. 27, 1922.

Ser. No. 166,046. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DETROIT INSULATED WIRE COMPANY, Detroit, Mich. Filed June 26, 1922.

TUF-TR-EAD

Particular description of goods.—Insulated Wire.
Claims use since Mar. 1, 1922.

Ser. No. 166,110. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STEWART STORAGE BATTERY COMPANY, Marshfield, Wis. Filed June 26, 1922.

storage Stewart batteries

No claim made to the words "Storage Batteries" apart from the mark shown in the drawing.
Particular description of goods.—Storage Batteries and Storage-Battery Boxes and Containers.
Claims use since Jan. 1, 1922.

Ser. No. 166,116. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNIQUE BRASS FOUNDRY COMPANY, INC., Buffalo, N. Y. Filed June 26, 1922.

U-NEEK UNIQUE

Particular description of goods.—Electric Storage Batteries and Parts Thereof.
Claims use since June 2, 1922.

Ser. No. 166,206. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE SEISS MANUFACTURING COMPANY, Toledo, Ohio. Filed June 28, 1922.

ROOTERS

Particular description of goods.—Diaphragm Horns.
Claims use since 1907.

Ser. No. 166,325. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) STANDARD PLAYING CARD CO., Chicago, Ill. Filed June 30, 1922.

NOMARK

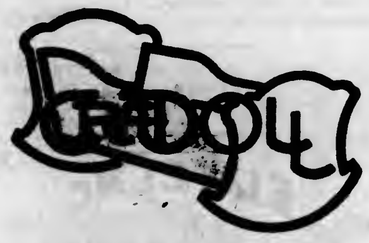
Particular description of goods.—Playing Cards.
Claims use since April, 1906.

Ser. No. 166,336. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LOLA CARRIER WORRELL, New York, N. Y. Filed June 30, 1922.

FLAPPER

Particular description of goods.—Dolls.
Claims use since June 27, 1922.

Ser. No. 166,383. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MAURICE M. LEVY, doing business as The Doll-Craft Company, Brooklyn, N. Y. Filed July 1, 1922.



Particular description of goods.—Dolls.
Claims use since Apr. 10, 1922.

Ser. No. 166,633. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) BOND MANUFACTURING CORPORATION, Wilmington, Del. Filed July 10, 1922.

CORK-TEX

Particular description of goods.—Gun Wads.
Claims use since June 23, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 15, 1922.

157,630. SILKS, BOTH IN THE PIECE AND IN THE BOLT. AARON-FLEISCHER SILK CO., St. Louis, Mo.
Filed March 27, 1920. Serial No. 130,254. PUBLISHED MAY 9, 1922.

157,631. WORKMEN'S ONE-PIECE OVERALL SUITS. ABBOT JACKET MANUFACTURING COMPANY, St. Louis, Mo.
Filed February 24, 1919. Serial No. 116,067. PUBLISHED DECEMBER 7, 1920.

157,632. NEWSPAPER COLUMN. FRANKLIN P. ADAMS, New York, N. Y.
Filed July 22, 1921. Serial No. 150,796. PUBLISHED SEPTEMBER 27, 1921.

157,633. HUNTING AND RIDING COATS, VESTS, AND PANTS. ALWARD-ANDERSON-SOUTHARD CO., Chicago, Ill.
Filed December 11, 1920. Serial No. 140,910. PUBLISHED JUNE 7, 1921.

157,634. EVAPORATED MILK. AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y.
Filed September 9, 1921. Serial No. 152,782. PUBLISHED MAY 23, 1922.

157,635. EVAPORATED MILK. AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y.
Filed December 1, 1921. Serial No. 156,142. PUBLISHED MAY 23, 1922.

157,636. STATEMENTS, AUDITORS' REPORTS, AND BULLETINS ISSUED PERIODICALLY. AUDIT BUREAU OF CIRCULATIONS, Chicago, Ill.
Filed January 3, 1922. Serial No. 157,403. PUBLISHED MAY 9, 1922.

157,637. DIETARY COOKIES. WILLIAM ORRIN BACKUS, San Francisco, Calif.
Filed September 26, 1921. Serial No. 153,330. PUBLISHED MAY 9, 1922.

157,638. SOAP. MARCEL BAILLY, Paris, France.
Filed September 10, 1921. Serial No. 152,782. PUBLISHED MAY 9, 1922.

157,639. CANNED FRUITS AND CANNED VEGETABLES. H. A. BAKER, INC., Sumner, Wash.
Filed November 23, 1920. Serial No. 140,009. PUBLISHED MAY 23, 1922.

157,640. [WITHDRAWN.]

157,641. WASHING COMPOUND. BARRINGTON MANUFACTURING CORPORATION, Dover, Del., and Mount Vernon, N. Y.
Filed January 4, 1922. Serial No. 157,471. PUBLISHED MAY 9, 1922.

157,642. ABRASIVE PAPERS AND CLOTHS. HERMAN BEHR & COMPANY, INCORPORATED, Brooklyn, N. Y.
Filed January 27, 1922. Serial No. 158,517. PUBLISHED MARCH 28, 1922.

157,643. WASHING COMPOUNDS IN POWDER, TABLETS, OR PASTE FORM. SAMUEL BERNSTEIN, doing business as Reliable Household Specialties Manufacturing Company, New York, N. Y.
Filed January 7, 1922. Serial No. 157,597. PUBLISHED MAY 9, 1922.

157,644. TAR AND ANTISEPTIC SOAP. RICHARD C. R. BINDER and LAURA B. SCHREIBER, Philadelphia, Pa., trustees of the estate of Richard Binder, deceased.
Filed October 24, 1921. Serial No. 154,472. PUBLISHED APRIL 25, 1922.

157,645. CANDY. BOSTON CONFECTIONERY COMPANY, Cambridge, Mass.
Filed January 30, 1922. Serial No. 158,594. PUBLISHED MAY 23, 1922.

157,646. SOAPS. A. BOURJOIS & CO. INC., New York, N. Y.
Filed December 20, 1921. Serial No. 156,952. PUBLISHED APRIL 25, 1922.

157,647. SOAPS. A. BOURJOIS & CO. INC., New York, N. Y.
Filed February 2, 1922. Serial No. 158,748. PUBLISHED APRIL 25, 1922.

157,648. NEWSPAPER SECTIONS. ROY BRAMMER, Huntington, W. Va.
Filed January 5, 1922. Serial No. 157,510. PUBLISHED MARCH 7, 1922.

157,649. COFFEE. BRAZILIAN COFFEE HOUSES, INC., New York, N. Y., assignors to Bozan Sales Corporation, New York, N. Y., a Corporation of New York.
Filed December 19, 1921. Serial No. 156,880. PUBLISHED MAY 9, 1922.

157,650. HUMOROUS NEWSPAPER ARTICLES AND HUMOROUS CIRCULARS ISSUED FROM TIME TO TIME. EDWIN CALLOW, Washington, D. C.
Filed December 10, 1921. Serial No. 156,518. PUBLISHED MAY 9, 1922.

157,651. ICE CREAM. THE C. G. CARLSON ICE CREAM COMPANY, Denver, Colo.
Filed December 5, 1921. Serial No. 156,261. PUBLISHED MAY 9, 1922.

157,652. PRESERVATIVE FOR LEATHER AND FABRIC BELTING. CAVANAGH MANUFACTURING CO., Chicago, Ill.
Filed January 14, 1922. Serial No. 157,916. PUBLISHED MARCH 28, 1922.

157,653. PACKAGE CONTAINING TWO PAPER TOWELS AND A PIECE OF SOAP. FREDERICK H. CHATFIELD, Cincinnati, Ohio.
Filed August 11, 1921. Serial No. 151,660. PUBLISHED MAY 9, 1922.

157,654. TOILET SOAP. CHERAMY, INCORPORATED, New York, N. Y.
Filed November 28, 1921. Serial No. 155,991. PUBLISHED APRIL 25, 1922.

157,655. CREAM MALTED CHOCOLATE. GEORGE HARRY CLARKE, Newark, N. J.
Filed February 15, 1921. Serial No. 143,589. PUBLISHED MAY 31, 1921.

157,656. COTTON PIECE GOODS. COHN-HALL-MARX CO., New York, N. Y.
Filed December 31, 1921. Serial No. 157,358. PUBLISHED MAY 9, 1922.

157,657. WOMEN'S DRESSES AND APRONS, CHILDREN'S DRESSES, ROMPERS, AND PLAY SUITS, AND BOYS' WASH SUITS AND BLOUSES. COOPER, COATS & CASEY DRY GOODS CO., Los Angeles, Calif., and New York, N. Y.
Filed January 14, 1920. Serial No. 127,117. PUBLISHED MAY 25, 1920.

157,658. SWEATERS, BATHING SUITS, KNITTED JACKETS, KNITTED VESTS, MUFFLERS, SCARFS, AND CAPS. CRESCENT COMPANY, New York, N. Y.
Filed October 31, 1921. Serial No 154,790. PUBLISHED MAY 9, 1922.

157,659. HAIR NETS. THE CREST NET COMPANY, INC., New York, N. Y.
Filed April 7, 1921. Serial No. 145,821. PUBLISHED JUNE 28, 1921.

157,660. EVAPORATED MILK. CROWN MARGARIN COMPANY, INC., St. Louis, Mo.
Filed December 17, 1921. Serial No. 156,825. PUBLISHED MAY 9, 1922.

157,661. CERTAIN NAMED SOAP AND CLEANSERS. THE DAVIES-YOUNG SOAP COMPANY, Dayton, Ohio.
Filed January 30, 1922. Serial No. 158,604. PUBLISHED MAY 9, 1922.

157,662. WET-CLEANING SOAP. THE DAVIES-YOUNG SOAP COMPANY, Dayton, Ohio.
Filed January 30, 1922. Serial No. 158,605. PUBLISHED MARCH 28, 1922.

157,663. MOPPING POWDER USED FOR CLEANING GRANITE, MARBLE, PAINTED WALLS, VARNISHED SURFACES, GLASSWARE, FURNITURE, AND LINOLEUM. MICHAEL J. DAVIS, Brooklyn, N. Y.
Filed September 21, 1921. Serial No. 153,174. PUBLISHED APRIL 25, 1922.

157,664. A QUARTERLY PUBLICATION. THE DELTA SIGMA PHI FRATERNITY, New York, N. Y., and Washington, D. C.
Filed October 4, 1921. Serial No. 153,717. PUBLISHED MARCH 7, 1922.

157,665. WOVEN, KNITTED, AND OTHER CLOTHS AND STUFFS OF WOOL, WORSTED, OR HAIR. DERWENT MILLS LIMITED, Matlock Borough, England.
Filed October 5, 1920. Serial No. 137,922. PUBLISHED MAY 2, 1922.

157,666. HAIR NETS. EDWARD B. DEWEY, Washington, D. C., and New York, N. Y.
Filed January 18, 1922. Serial No. 158,079. PUBLISHED MAY 2, 1922.

157,667. MATTRESSES AND BED SPRINGS. DE WITT-SEITZ CO., Duluth, Minn.
Filed June 27, 1921. Serial No. 149,689. PUBLISHED MARCH 7, 1922.

157,668. GREASE USED IN THE TREATMENT OF LEATHER SHOES, BELTING, AND HARNESS. LESTER DOHNER, Elizabethtown, Pa.
Filed January 11, 1922. Serial No. 157,761. PUBLISHED MARCH 28, 1922.

157,669. A CHEMICAL FOR CLEANSING DRAINS, SINKS, WASHBOWLS, ETC. THE P. W. DRACKETT & SONS COMPANY, now by change of name The Drackett Chemical Company, Cincinnati, Ohio.
Filed July 28, 1921. Serial No. 151,035. PUBLISHED NOVEMBER 1, 1921.

157,670. MEN'S AND BOYS' OUTER WEARING NEGLIGEE AND WORK SHIRTS. SIGMUND EISNER CO., Red Bank, N. J.
Filed January 17, 1921. Serial No. 142,334. PUBLISHED MAY 9, 1922.

157,671. NEWSPAPER SECTION. THE EVENING NEWS ASSOCIATION, doing business as The Detroit News, Detroit, Mich.
Filed December 16, 1021. Serial No. 156,785. PUBLISHED MAY 9, 1922.

157,672. COFFEE. THE FRANKLIN COFFEE CO., Columbus, Ohio.
Filed April 30, 1920. Serial No. 131,863. PUBLISHED OCTOBER 12, 1920.

157,673. CORUNDUM, EMERY, AND SILICON CARBIDE. GENERAL ABRASIVE CO., INC., Niagara Falls, N. Y.
Filed November 9, 1921. Serial No. 155,224. PUBLISHED MAY 9, 1922.

157,674. FIGS DRIED, CANNED, GREEN, AND PRESERVED. GIESELER & GOLDMAN, Merced, Calif.
Filed March 28, 1921. Serial No. 145,331. PUBLISHED MAY 2, 1922.

157,675. KNITTED GOODS OF WOOL AND WOOL MIXTURE. GOLD MARK KNITTING CO., Woonsocket, R. I.
Filed December 19, 1921. Serial No. 156,896. PUBLISHED MAY 2, 1922.

157,676. LAUNDRY SOAP. SOLOMON W. GOLDSMITH, Philadelphia, Pa.
Filed November 21, 1921. Serial No. 155,683. PUBLISHED MARCH 14, 1922.

157,677. HAIR ROLLS AND PUFFS. THE HAIRLIGHT COMPANY, Leominster, Mass.
Filed December 19, 1921. Serial No. 156,902. PUBLISHED MARCH 14, 1922.

157,678. TEXTILE PIECE GOODS COMPRISING PIECE GOODS OF WOOL, WORSTED, OR HAIR. ISAAC FRED HARVEY, Bradford, England.
Filed April 2, 1920. Serial No. 130,531. PUBLISHED NOVEMBER 9, 1920.

157,679. PREPARATION FOR REMOVING DIRT AND STAINS FROM THE HANDS, CLOTHING, WOOD, AND GLASS. JOHN E. R. HASBROUCK, doing business as Hasbrouck Laboratories, New York, N. Y.
Filed October 24, 1921. Serial No. 154,511. PUBLISHED MAY 9, 1922.

157,680. TOILET SOAP. HASKINS BROS. & COMPANY, Sioux City, Iowa, and Omaha, Nebr.
Filed January 4, 1921. Serial No. 141,837. PUBLISHED JUNE 14, 1921.

157,681. CANDIES. HEIDELBERGER CONFECTIONERY CO., Philadelphia, Pa.
Filed December 14, 1921. Serial No. 156,689. PUBLISHED MAY 9, 1922.

157,682. MEDICINE CABINETS. HEAT WARMING & VENTILATING COMPANY, Chicago, Ill.
Filed November 28, 1921. Serial No. 156,002. PUBLISHED MAY 9, 1922.

157,683. STROP DRESSING. JOHN S. HOWARD, Los Angeles, Calif.
Filed September 12, 1921. Serial No. 152,846. PUBLISHED MARCH 14, 1922.

157,684. DISPLAY STANDS AND SHELVES. THE H. B. HOWE COMPANY, Detroit, Mich.
Filed December 14, 1921. Serial No. 156,686. PUBLISHED MARCH 14, 1922.

157,685. DENTIFRICE. OLIVER W. HUFF, Hot Springs, Ark.
Filed May 9, 1921. Serial No. 147,492. PUBLISHED APRIL 4, 1922.

157,686. CANNED FISH, CANNED SALMON; CANNED FRUITS — NAMELY, CANNED PEACHES; AND CANNED VEGETABLES—NAMELY, CANNED TOMATOES. G. W. HUME COMPANY, San Francisco, Calif.
Filed February 24, 1920. Serial No. 128,844. PUBLISHED MAY 4, 1920.

157,687. INFANTS' BATH ROBES. IDEAL BATH ROBE CO. INC., Brooklyn, N. Y.
Filed June 15, 1920. Serial No. 133,736. PUBLISHED MAY 9, 1922.

157,688. FOLDABLE DINING TABLES AND FOLDABLE STOOLS. INDUSTRIAL MATERIALS CO. INC., New York, N. Y.
Filed December 10, 1921. Serial No. 156,532. PUBLISHED APRIL 25, 1922.

157,689. SHOE LACINGS, CORSET LACINGS, GALLOONS, AND BRAIDS WHICH ARE MADE OF COTTON. INTERNATIONAL BRAID COMPANY, Providence, R. I.
Filed December 28, 1921. Serial No. 157,222. PUBLISHED APRIL 25, 1922.

157,690. LAUNDRY SOAP. IOWA SOAP COMPANY, Burlington, Iowa.
Filed November 12, 1919. Serial No. 124,794. PUBLISHED SEPTEMBER 28, 1920.

157,691. PAMPHLETS, BOOKS, CIRCULARS, PRINTS, DRAWINGS, BLUE PRINTS, TRACINGS, AND SPECIFICATIONS. INTERNATIONAL FEDERATION OF TECHNICAL ENGINEERS', ARCHITECTS' AND DRAFTSMEN'S UNIONS, Washington, D. C.
Filed January 5, 1920. Serial No. 126,803. PUBLISHED MAY 9, 1922.

157,692. FRESH ORANGES, LEMONS, GRAPEFRUIT, AND TANGERINES. W. H. JAMESON, Corona, Calif.
Filed October 18, 1920. Serial No. 138,442. PUBLISHED APRIL 5, 1921.

157,693. CERTAIN-NAMED CLEANSERS, TOILET AND LAUNDRY SOAPS, AND METAL POLISH. JENNINGS-SHERRY COMPANY, Los Angeles, Calif.
Filed January 19, 1922. Serial No. 158,125. PUBLISHED MAY 9, 1922.

157,694. TOILET SOAP IN LIQUID AND SOLID FORM. JOHNSON & JOHNSON, New Brunswick, N. J.
Filed May 9, 1921. Serial No. 147,544. PUBLISHED JULY 5, 1921.

157,695. HOOKS AND EYES. JORDAN MARSH COMPANY, Boston, Mass.
Filed January 27, 1922. Serial No. 158,582. PUBLISHED MARCH 14, 1922.

157,696. MEN'S, WOMEN'S, AND CHILDREN'S SHOES OF LEATHER, FABRIC, AND COMBINED FABRIC AND LEATHER. THE JULIAN & KOKENGE CO., Cincinnati, Ohio.
Filed January 13, 1921. Serial No. 142,216. PUBLISHED MAY 9, 1922.

157,697. HAIR NETS. ADOLPH KLAR, New York, N. Y.
Filed July 20, 1921. Serial No. 150,688. PUBLISHED NOVEMBER 1, 1921.

157,698. A MONTHLY MAGAZINE. JOHN V. KOHLHAAS, Philadelphia, Pa.
Filed March 17, 1921. Serial No. 144,864. PUBLISHED JULY 5, 1921.

157,699. SOAP. H. KOHNSTAMM & CO., New York, N. Y., assignor to H. Kohnstamm & Co., Inc., a Corporation of New York.
Filed January 14, 1922. Serial No. 157,929. PUBLISHED MAY 9, 1922.

157,700. CANNED AND BOTTLED CRAB. TOMISABURO KOMADA, Yokohama, Japan.
Filed January 6, 1922. Serial No. 157,574. PUBLISHED MAY 23, 1922.

157,701. CANNED AND BOTTLED CRAB. TOMISABURO KOMADA, Yokohama, Japan.
Filed January 6, 1922. Serial No. 157,575. PUBLISHED MAY 23, 1922.

157,702. FANCY LACES IN THE PIECE. LACE NET IMPORTING CO., New York, N. Y.
Filed March 8, 1921. Serial No. 144,461. PUBLISHED JUNE 14, 1921.

157,703. CANNED TOMATOES. LAWNDALE WHOLESALE GROCERY CO., Chicago, Ill.
Filed December 27, 1921. Serial No. 157,157. PUBLISHED MAY 23, 1922.

157,704. CAKES, WAFERS, CRACKERS, AND BISCUITS. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y.
Filed September 8, 1921. Serial No. 152,711. PUBLISHED MAY 2, 1922.

157,705. HAIR NETS. LORRAINE MFG. AND IMPORTING COMPANY, Grand Haven, Mich.
Filed May 18, 1921. Serial No. 147,882. PUBLISHED DECEMBER 18, 1921.

157,706. MATTRESSES. C. F. LOTTMAN & SONS, Houston, Tex.
Filed August 25, 1921. Serial No. 152,170. PUBLISHED MARCH 14, 1922

157,707. MAPS, ATLASES, MISCELLANEOUS BOOKS, BANKERS' DIRECTORY, MAGAZINES PUBLISHED MONTHLY, COMPLETELY-PRINTED TICKETS, AND COUPON BOOKS. RAND MCNALLY AND COMPANY, Chicago, Ill.
Filed June 16, 1921. Serial No. 149,246. PUBLISHED MAY 9, 1922.

157,708. GLOVE-CLEANING SOAPS. THE M. & N. Co., Washington, D. C.
Filed December 24, 1921. Serial No. 157,103. PUBLISHED MARCH 7, 1922.

157,709. CANDY. MANUFACTURING COMPANY OF AMERICA, Philadelphia, Pa.
Filed May 19, 1921. Serial No. 147,937. PUBLISHED NOVEMBER 1, 1921.

157,710. CANDY. E. L. MATHEWS CANDY COMPANY, Wilmington, N. C.
Filed March 7, 1921. Serial No. 144,403. PUBLISHED AUGUST 2. 1921.

157,711. SOAP. THE MEDICRAFT COMPANY, Cleveland, Ohio.
Filed October 20, 1921. Serial No. 154,373. PUBLISHED MAY 9, 1922.

157,712. SERIES OF CARTOONS. CHARLES H. MEDCRAFT, San Francisco, Calif.
Filed December 13, 1921. Serial No. 156,652. PUBLISHED MARCH 7, 1922.

157,713. SMOKED MEATS AND LARD. MEMPHIS PACKING CORPORATION, Memphis, Tenn.
Filed March 18, 1921. Serial No. 144,931. PUBLISHED MAY 16, 1922.

157,714. POWDERED MILK. MERRELL-SOULE COMPANY, Syracuse, N. Y.
Filed January 27, 1922. Serial No. 158,529. PUBLISHED MAY 23, 1922.

157,715. ARTIFICIALLY-COMPOUNDED FOOD SUPPLEMENT FOR CHILDREN AND INVALIDS. HERMAN A. METZ, New York, N. Y.
Filed May 19, 1921. Serial No. 147,981. PUBLISHED FEBRUARY 28, 1922.

157,716. DESKS, STUDIO TABLES, STANDS, AND EASELS. JOHN MICHAELS, Montreal, Quebec, Canada.
Filed February 7, 1921. Serial No. 143,282. PUBLISHED APRIL 25, 1922.

157,717. A MAGAZINE PUBLISHED AT VARYING INTERVALS. GEORGE B. MONK, San Francisco, Calif.
Filed December 14, 1921. Serial No. 156,695. PUBLISHED MAY 9, 1922.

157,718. CHOCOLATE-COVERED NUT BAR. THE W. R. MONTAGUE COMPANY, La Crosse, Wis.
Filed January 5, 1922. Serial No. 157,528. PUBLISHED MAY 23, 1922.

157,719. COTTON PIECE GOODS. MORTON SUNDOUR FABRICS LTD., Dentonhill, Carlisle, England.
Filed December 14, 1921. Serial No. 156,696. PUBLISHED MAY 9, 1922.

157,720. HAIRPINS AND SAFETY PINS. MULLER AND PHIPPS (ASIA) LIMITED, New York, N. Y.
Filed June 24, 1920. Serial No. 134,138. PUBLISHED MAY 9, 1922.

157,721. ALL KINDS OF BOOT POLISH. NAAMLOOSE VENNOOTSCHAP MAATSCHAPPIJ VOOR WASVERWERKING, Amsterdam, Netherlands.
Filed July 19, 1920. Serial No. 135,161. PUBLISHED MARCH 7, 1922.

157,722. LESSON BOOKS AND CATALOGUES ISSUED SEMIANNUALLY. THE NATIONAL POULTRY INSTITUTE, INC., Baltimore, Md., and Washington, D. C.
Filed October 19, 1921. Serial No. 154,819. PUBLISHED MAY 9, 1922.

157,723. POWDERED CLEANER FOR FALSE TEETH. NEO PRODUCTS CO., Portland, Oreg.
Filed December 27, 1921. Serial No. 157,168. PUBLISHED APRIL 25, 1922.

157,724. ICE CREAM. NESTLÉ'S FOOD COMPANY, INC., New York, N. Y.
Filed January 25, 1922. Serial No. 158,431. PUBLISHED MAY 23, 1922.

157,725. CERTAIN NAMED SOAPS AND ANTISEPTIC CLEANSING POWDER. NORTHERN JOBBING COMPANY, Chicago, Ill.
Filed November 14, 1921. Serial No. 155,360. PUBLISHED APRIL 25, 1922.

157,726. MONTHLY PUBLICATION. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y.
Filed October 12, 1921. Serial No. 154,043. PUBLISHED MARCH 14, 1922.

157,727. CANDY. THE NUNNALLY COMPANY, Atlanta, Ga.
Filed December 24, 1921. Serial No. 157,104. PUBLISHED MAY 23, 1922.

157,728. CERTAIN-NAMED HOUSEHOLD AND OFFICE FURNITURE. THE NUNNER AND ASHTON COMPANY, Cincinnati, Ohio.
Filed March 8, 1920. Serial No. 129,415. PUBLISHED APRIL 25, 1922.

157,729. SHOE AND LEATHER DRESSING. EDGAR NUTTER, Portland, Me.
Filed February 9, 1922. Serial No. 159,100. PUBLISHED MARCH 28, 1922.

157,730. WHEAT FLOUR. OMAHA FLOUR MILLS CO., Omaha, Neb.
Filed November 1, 1921. Serial No. 154,886. PUBLISHED MAY 9, 1922.

157,731. COTTON VOILE CLOTHS. JAMES ORR & SONS, LIMITED, Manchester, England.
Filed December 8, 1921. Serial No. 156,461. PUBLISHED MAY 2, 1922.

157,732. CERTAIN-NAMED HOUSEHOLD FURNITURE. OVINGTON BROS. COMPANY, New York, N. Y.
Filed January 18, 1921. Serial No. 142,399. PUBLISHED MAY 9, 1922.

157,733. CLEANING AND POLISHING MATERIALS FOR JEWELRY, METAL WARE, AND PRECIOUS-METAL WARE. OVINGTON BROS. COMPANY, New York, N. Y.
Filed January 18, 1921. Serial No. 142,405. PUBLISHED MAY 9, 1922.

157,734. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed January 22, 1921. Serial No. 142,667. PUBLISHED MAY 2, 1922.

157,735. BOOKS, PAMPHLETS, AND CIRCULARS DEVOTED TO PHOTOPLAY INFORMATION AND INSTRUCTION IN PHOTOPLAY WRITING. PALMER PHOTOPLAY CORPORATION, Los Angeles, Calif.
Filed June 9, 1920. Serial No. 133,490. PUBLISHED MAY 9, 1922.

157,736. MONTHLY MAGAZINE DEVOTED TO THE INTERESTS OF PHOTOPLAY AUTHORS. PALMER PHOTOPLAY CORPORATION, Los Angeles, Calif.
Filed September 28, 1921. Serial No. 153,473. PUBLISHED FEBRUARY 7, 1922.

157,737. ELASTIC. WILLIAM T. PALMER & COMPANY INC., New York, N. Y.
Filed February 4, 1922. Serial No. 158,888. PUBLISHED MARCH 14, 1922.

157,738. SOAPS. ALEXANDER PAPAZIAN, New York, N. Y.
Filed January 19, 1922. Serial No. 158,141. PUBLISHED MAY 9, 1922.

157,739. HAIR NETS. PARISTYLE NOVELTY CO. INC., New York, N. Y.
Filed January 25, 1922. Serial No. 158,438. PUBLISHED MAY 2, 1922.

157,740. COTTON PIECE GOODS. PASSAIC PRINT WORKS, Passaic, N. J.
Filed December 7, 1921. Serial No. 156,405. PUBLISHED MAY 2, 1922.

157,741. COTTON PIECE GOODS. PASSAIC PRINT WORKS, Passaic, N. J.
Filed December 7, 1921. Serial No. 156,411. PUBLISHED MAY 2, 1922.

157,742. COMPOUND FOR PRESERVING AND WATER-PROOFING SHOES AND LEATHER. PENN LEATHER PRESERVING CO., Pittsburgh, Pa.
Filed February 6, 1922. Serial No. 158,147. PUBLISHED MAY 9, 1922.

157,743. SWEEPING COMPOUND. THE PIONEER MANUFACTURING COMPANY, Cleveland, Ohio.
Filed January 6, 1922. Serial No. 157,584. PUBLISHED MARCH 28, 1922.

157,744. HOSIERY. THE PITTSBURGH DRY GOODS COMPANY, Pittsburgh, Pa.
Filed January 11, 1921. Serial No. 142,099. PUBLISHED AUGUST 23, 1921.

157,745. HARD AND SOFT CANDIES AND CHOCOLATES. QUAKER CITY CHOCOLATE & CONFECTIONERY COMPANY, Philadelphia, Pa.
Filed January 7, 1922. Serial No. 157,634. PUBLISHED MAY 23, 1922.

157,746. WORK SHIRTS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed October 10, 1921. Serial No. 153,952. PUBLISHED MAY 9, 1922.

157,747. BELT DRESSING. RE-NU-M MANUFACTURING CO., St. Louis, Mo.
Filed January 9, 1922. Serial No. 157,691. PUBLISHED MAY 9, 1922.

157,748. MATTRESSES. ARTHUR TINDALL REYNOLDS, Brooklyn, N. Y.
Filed February 7, 1921. Serial No. 143,293. PUBLISHED MAY 9, 1922.

157,749. FRESH ORANGES, GRAPEFRUIT, AND TANGERINES. RICHARD H. RICE, Coconut Grove, Fla.
Filed October 19, 1921. Serial No. 154,326. PUBLISHED MAY 9, 1922.

157,750. CANDY. R. M. RICHARDSON & CO., San Francisco, Calif.
Filed May 13, 1920. Serial No. 132,405. PUBLISHED NOVEMBER 29, 1921.

157,751. COTTON PIECE GOODS, SILK PIECE GOODS, AND PIECE GOODS MADE OF COTTON AND SILK. J. RICHMAN & CO., New York, N. Y.
Filed August 4, 1921. Serial No. 151,380. PUBLISHED NOVEMBER 8, 1921.

157,752. MATTRESSES, PILLOWS, BOLSTERS, AND CUSHIONS, WHICH ARE FILLED WITH A SOFT FILLING MATERIAL. THE ROBINSON-RODERS CO., INC., Newark, N. J.
Filed August 28, 1920. Serial No. 136,607. PUBLISHED MARCH 14, 1922.

157,753. PRINTED PERIODICAL ISSUED QUARTERLY. JOHN B. ROGERS PRODUCING COMPANY, Fostoria, Ohio.
Filed April 4, 1921. Serial No. 145,717. PUBLISHED MARCH 7, 1922.

157,754. SOAP FLAKES. ROLLY CHEMICAL CO., Hastings, Nebr.
Filed January 19, 1922. Serial No. 158,147. PUBLISHED MARCH 28, 1922.

157,755. CHEMICAL DIRT SOLVENT IN THE NATURE OF A WASHING POWDER. ROLLY CHEMICAL CO., Hastings, Nebr.
Filed January 19, 1922. Serial No. 158,148. PUBLISHED MAY 9, 1922.

157,756. CORSETS, CORSET COVERS, BODICES, BUST SUPPORTERS, BREAST FORMS, AND BRASSIÈRES. ROSENTHAL, FLEISCHER & CIE., Goppingen, Germany.
Filed July 7, 1919. Serial No. 120,318. PUBLISHED NOVEMBER 22, 1921.

157,757. OLIVE OIL. G. ROSSANO & BRO., New York, N. Y.
Filed October 24, 1921. Serial No. 154,531. PUBLISHED MAY 9, 1922.

157,758. LIQUID STOVE POLISH, METAL POLISH, ENAMEL CLEANER, AND WASTE-PIPE CLEANER. RUTLAND FIRE CLAY CO., Rutland, Vt.
Filed November 3, 1921. Serial No. 154,993. PUBLISHED APRIL 25, 1922.

157,759. HAIR NETS. SAMSTAG & HILDER BROS., New York, N. Y.
Filed November 30, 1921. Serial No. 156,115. PUBLISHED MAY 2, 1922.

157,760. HAIR NETS. R. SCHEANBLUM, New York, N. Y.
Filed December 15, 1921. Serial No. 156,765. PUBLISHED MAY 2, 1922.

157,761. SERGE IN THE PIECE. MORRIS M. SCHER, Baltimore, Md.
Filed December 28, 1921. Serial No. 157,239. PUBLISHED MAY 2, 1922.

157,762. STOCK FEED. B. L. SESSUM, Memphis, Tenn.
Filed October 23, 1920. Serial No. 138,780. PUBLISHED MAY 10, 1921.

157,763. ANTIRHEUMATIC MEDICATED SOAP FOR HUMAN USE. SEVEN SPAS SOAP PROPRIETARY COY., LIMITED, London, England.
Filed June 14, 1921. Serial No. 149,153. PUBLISHED MAY 9, 1922.

157,764. CATALOGUE PUBLISHED FROM TIME TO TIME. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo.
Filed December 22, 1921. Serial No. 157,048. PUBLISHED MAY 9, 1922.

157,765. HONES. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo.
Filed February 11, 1921. Serial No. 143,459. PUBLISHED APRIL 25, 1922.

157,766. LIQUID CHEMICAL COMPOSITION FOR CLEANING WINDOWS AND GLASSWARE. SILENT PRODUCTS CO., Irvington, N. J.
Filed August 18, 1921. Serial No. 151,927. PUBLISHED MARCH 14, 1922.

157,767. SHEETS AND PILLOWCASES. ERNEST SIMONS MFG. CO., Port Chester, N. Y.
Filed June 22, 1921. Serial No. 149,527. PUBLISHED NOVEMBER 29, 1921.

157,768. CHOCOLATE CANDY. SIOUX CANDY CO., Sioux City, Iowa.
Filed January 3, 1922. Serial No. 157,448. PUBLISHED MAY 23, 1922.

157,769. CANDY CONFECTIONS, PASTRIES, ROLLS, SALADS, TABLE BEVERAGES, CANNED FRUITS, AND OTHER FOODS. THOMPSON'S SPA, Boston, Mass.
Filed April 9, 1921. Serial No. 145,980. PUBLISHED JANUARY 24, 1922.

157,770. CANNED FRUITS AND CANNED VEGETABLES. THE SPRINGVILLE CANNING CO., Springville, N. Y.
Filed April 29, 1920. Serial No. 131,836. PUBLISHED SEPTEMBER 21, 1920.

157,771. NONSPATTER TYPE CLEANER. S. S. STAFFORD, INC., New York, N. Y.
Filed December 4, 1920. Serial No. 140,619. PUBLISHED FEBRUARY 15, 1921.

157,772. METAL POLISH. J. H. STAHR, St. Louis, Mo.
Filed October 24, 1921. Serial No. 154,539. PUBLISHED MARCH 14, 1922.

157,773. UMBRELLAS AND PARASOLS. W. N. STEVENSON & CO., INC., New York, N. Y.
Filed March 28, 1922. Serial No. 161,388. PUBLISHED MAY 2, 1922.

157,774. A MONTHLY VITICULTURAL PUBLICATION. HORATIO FRANCIS STOLL, San Francisco, Calif.
Filed January 3, 1922. Serial No. 157,451. PUBLISHED MARCH 7, 1922.

157,775. HUMAN-HAIR GOODS, SUCH AS SWITCHES, WIGS, TRANSFORMATIONS, WAVES, AND CURLS. ALICE D. STREHL, Chicago, Ill.
Filed October 20, 1921. Serial No. 154,383. PUBLISHED MARCH 7, 1922.

157,776. MONTHLY PUBLICATION ENTITLED "THE MESS-KIT." WILLIAM O. STONE, Haverhill, Mass.
Filed December 14, 1921. Serial No. 156,716. PUBLISHED MARCH 7, 1922.

157,777. CANDY. M. TIDYMAN, Racine, Wis.
Filed May 12, 1921. Serial No. 147,648. PUBLISHED APRIL 4, 1922.

157,778. SOAP FLAKES. EMILIO FERNANDEZ TRAVIESO, doing business under the trade name of Emifertra Manufacturing Co., New York, N. Y.
Filed October 18, 1921. Serial No. 154,288. PUBLISHED APRIL 25, 1922.

157,779. ELASTIC CORSETS. TREO COMPANY, INC., New York, N. Y.
Filed December 30, 1921. Serial No. 157,339. PUBLISHED MAY 2, 1922.

157,780. ELASTIC CORSETS. TREO COMPANY, INC., New York, N. Y.
Filed December 30, 1921. Serial No. 157,340. PUBLISHED MAY 2, 1922.

157,781. ELASTIC CORSETS. TREO COMPANY, INC., New York, N. Y.
Filed December 30, 1921. Serial No. 157,341. PUBLISHED MAY 2, 1922.

157,782. ELASTIC CORSETS. TREO COMPANY, INC., New York, N. Y.
Filed December 30, 1921. Serial No. 157,342. PUBLISHED MAY 2, 1922.

157,783. SEAT PADS OR CUSHIONS. MAX C. UKMAN, St. Louis, Mo.
Filed December 12, 1921. Serial No. 156,608. PUBLISHED MARCH 7, 1922.

157,784. WASHING COMPOUND. UNITED CHEMICAL PRODUCTS COMPANY, Los Angeles, Calif.
Filed December 28, 1921. Serial No. 157,241. PUBLISHED APRIL 25, 1922.

157,785. SOAPS, SHAVING CREAMS, POWDERED SOAP, AND SHAVING STICKS. V. VIVAUDOU, INC., New York, N. Y.
Filed January 11, 1922. Serial No. 157,782. PUBLISHED MAY 9, 1922.

157,786. CERTAIN NAMED NOTIONS. V. VIVAUDOU, INC., New York, N. Y.
Filed February 6, 1922. Serial No. 158,956. PUBLISHED APRIL 25, 1922.

157,787. CHEESE. ROGER H. VOLLMER, trading as Eatabita Cheese Company, Phoenixville, Pa.
Filed November 14, 1921. Serial No. 155,374. PUBLISHED MAY 9, 1922.

157,788. POP-CORN BALLS. WAGNER MANUFACTURING COMPANY, Ardmore, Okla.
Filed January 11, 1922. Serial No. 157,789. PUBLISHED MAY 23, 1922.

157,789. SNAP FASTENERS. WALDES & CO., INC., Long Island City, N. Y.
Filed January 21, 1922. Serial No. 158,277. PUBLISHED MARCH 14, 1922.

157,790. SILK, COTTON, AND WOOLEN PIECE GOODS AND A COMBINATION THEREOF. WALKER KNITTING MILLS INC., New York, N. Y.
Filed January 18, 1922. Serial No. 158,105. PUBLISHED MAY 2, 1922.

157,791. SOAP. W. & H. WALKER INC., Pittsburgh, Pa. Filed February 6, 1922. Serial No. 159,133. PUBLISHED MAY 9, 1922.

157,792. SOAPS. JOHN WANAMAKER, PHILADELPHIA, Philadelphia, Pa. Filed February 4, 1922. Serial No. 158,909. PUBLISHED MARCH 28, 1922.

157,793. BREAD. WARD BAKING COMPANY, New York, N. Y. Filed October 1, 1921. Serial No. 153,630. PUBLISHED MAY 9, 1922.

157,794. CANDY. WEBERS, Milwaukee, Wis. Filed January 9, 1922. Serial No. 157,702. PUBLISHED MAY 23, 1922.

157,795. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, TOMATO CATCHUP, AND FRUIT PRESERVES. THE WHOLESALE DISTRIBUTORS CO., Chicago, Ill. Filed January 3, 1922. Serial No. 157,465. PUBLISHED MAY 23, 1922.

157,796. FRUIT AND NUT BARS. MARTIN A. WITT, Los Angeles, Calif. Filed October 8, 1921. Serial No. 153,907. PUBLISHED APRIL 4, 1922.

157,797. PERIODICAL ISSUED IN THE SPRING AND FALL OF EACH YEAR. WOMAN'S INSTITUTE OF DOMESTIC ARTS & SCIENCES, INC., Scranton, Pa. Filed December 31, 1921. Serial No. 157,393. PUBLISHED MARCH 7, 1922.

157,798. GIMP BRAID FOR TRIMMING AUTOMOBILE AND FURNITURE UPHOLSTERY. WOODWARD & COCKEY, INC., Lynn, Mass. Filed October 7, 1921. Serial No. 153,863. PUBLISHED MARCH 14, 1922.

157,799. BREAD. DANIEL P. WOOLLEY, New York, N. Y. Filed September 23, 1921. Serial No. 153,277. PUBLISHED MAY 9, 1922.

157,800. DRESSED POULTRY AND EGGS. COMMODORE C. WRIGHT, McLeansboro, Ill. Filed November 16, 1921. Serial No. 155,466. PUBLISHED MAY 9, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

AUGUST 15, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

157,801. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARECIBO GRAPE FRUIT COMPANY, New York, N. Y. Filed Mar. 30, 1921. Serial No. 145,426.

POMELO

Particular description of goods.—Canned Grapefruit.
Claims use since about Feb. 1, 1921.

157,802. (CLASS 39. CLOTHING.) BENNINGTON HOSIERY COMPANY, Bennington, Vt. Filed Feb. 25, 1922. Serial No. 159,783.

Bennington

Particular description of goods.—Hosiery and Stockings.
Claims use since June 28, 1913.

157,803. (CLASS 39. CLOTHING.) F. BERG & COMPANY, Orange, N. J. Filed Jan. 26, 1922. Serial No. 158,467.

QUALITY WITHOUT EXTRAVAGANCE

Particular description of goods.—Men's Felt Hats.
Claims use since Nov. 1, 1920.

157,804. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BERTLEY CO., New York, N. Y., assignor to Jean Jordeau Incorporated, South Orange, N. J., a Corporation of New Jersey. Filed Oct. 28, 1919. Serial No. 124,258.



Particular description of goods.—Chemical Preparation for the Removal of Superfluous Hair.
Claims use since Sept. 13, 1919.

157,805. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAE CASEY, Raleigh, N. C. Filed July 7, 1922. Serial No. 166,549.

CASEY'S

Particular description of goods.—Vanishing Cream.
Claims use since Jan. 1, 1919.

157,806. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMMERCIAL SOLVENTS CORPORATION, New York, N. Y. Filed Mar. 25, 1922. Serial No. 161,233.

BUTANOL

Particular description of goods.—Certain Named Chemical Preparations.
Claims use since Feb. 8, 1921.

157,807. (CLASS 39. CLOTHING.) CORSET ARTISTIQUE, INC., Jackson and Marshall, Mich. Filed July 9, 1921. Serial No. 150,186.

Corset Artistique

Particular description of goods.—Certain Articles of Clothing.
Claims use since Feb. 1, 1921.

157,808. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE ECONOMY BIAS BINDING COMPANY, New York, N. Y. Filed Nov. 28, 1921. Serial No. 155,998.

Bonnie Blue

Particular description of goods.—Bias-Seam Tape.
Claims use since December, 1919.

157,809. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. H. FROHMAN & COMPANY, INC., Chicago, Ill. Filed Apr. 11, 1921. Serial No. 146,006.

GOLD PRIZE

Particular description of goods.—Coffee.
Claims use since Jan. 15, 1921.

157,810. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A/S GADUS, Christiania, Norway. Filed Jan. 7, 1921. Serial No. 141,947.

Gadus

Particular description of goods.—Cod-Liver Oil.
Claims use since September, 1919.

157,811. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES A. HEARN & SON, INC., New York, N. Y. Filed Apr. 5, 1922. Serial No. 161,779.

WILL WASH HEAVIER
Diamond Mills

Particular description of goods.—Cotton Piece Goods—viz, Muslin Piece Goods, Muslin Sheets, and Muslin Pillowcases.
Claims use since about Jan. 31, 1907.

157,812. (CLASS 37. PAPER AND STATIONERY.) GEORGE B. HURD & CO., New York, N. Y. Filed May 13, 1922. Serial No. 163,797.

Early·Saxon·

Particular description of goods.—Writing Paper and Correspondence Envelopes.
Claims use since about the 5th day of February, 1908.

157,813. (CLASS 39. CLOTHING.) CHARLES E. HYMSON, Louisville, Ind. Filed June 6, 1921. Serial No. 148,779.

TUFF WEAR

Particular description of goods.—Overalls.
Claims use since Mar. 21, 1921.

157,814. (CLASS 39. CLOTHING.) KLOTHES SHOPPE, Birmingham, Ala., and Louisville, Ky. Filed Sept. 9, 1921. Serial No. 152,757.

The Klothes Shoppe

Particular description of goods.—Men's, Youths', and Boys' Coats, Vests, Trousers, and Overcoats; Men's Hats; Women's Suits, Skirts, and Waists.
Claims use since Jan. 10, 1917.

157,815. (CLASS 39. CLOTHING.) KNITWEAR MFG. CO. INC., New York, N. Y. Filed Nov. 9, 1920. Serial No. 139,402.

KNITWEAR

Particular description of goods.—Sweaters.
Claims use since July 1, 1915.

157,816. (CLASS 39. CLOTHING.) KNOTHE BROTHERS CO., INC., New York, N. Y. Filed Nov. 10, 1921. Serial No. 155,264.

"THE WESTBROOK"

Particular description of goods.—Waist Belts.
Claims use since Sept. 14, 1920.

157,817. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. J. KRANK MANUFACTURING COMPANY, St. Paul, Minn. Filed Apr. 9, 1921. Serial No. 145,953.

LatherKreem

Particular description of goods.—Shaving Cream to be Used Before Shaving.
Claims use since Aug. 1, 1910.

157,818. (CLASS 38. PRINTS AND PUBLICATIONS.) G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Apr. 24, 1922. Serial No. 162,830.

WEBSTER'S SHORTER SCHOOL

Particular description of goods.—Books, More Particularly Dictionaries, Which are Published from Time to Time.
Claims use since Nov. 4, 1914.

157,819. (CLASS 38. PRINTS AND PUBLICATIONS.) G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Apr. 24, 1922. Serial No. 162,832.

WEBSTER'S ELEMENTARY-SCHOOL

Particular description of goods.—Books, More Particularly Dictionaries, Which are Published from Time to Time.
Claims use since Oct. 1, 1914.

157,820. (CLASS 38. PRINTS AND PUBLICATIONS.) G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Apr. 24, 1922. Serial No. 162,833.

WEBSTER'S NEW HANDY

Particular description of goods.—Books, More Particularly Dictionaries, Which are Published from Time to Time.
Claims use since Oct. 15, 1918.

157,821. (CLASS 38. PRINTS AND PUBLICATIONS.) G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Apr. 24, 1922. Serial No. 162,834.

WEBSTER'S COLLEGIATE

Particular description of goods.—Books, More Particularly Dictionaries, Which are Published from Time to Time.
Claims use since Sept. 10, 1898.

157,822. (CLASS 38. PRINTS AND PUBLICATIONS.) G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Apr. 24, 1922. Serial No. 162,835.

WEBSTER'S REVISED UNABRIDGED

Particular description of goods.—Books, More Particularly Dictionaries, Which are Published from Time to Time.
Claims use since Aug. 29, 1913.

157,823. (CLASS 38. PRINTS AND PUBLICATIONS.) G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Apr. 24, 1922. Serial No. 162,838.

WEBSTER'S SECONDARY-SCHOOL

Particular description of goods.—Books, More Particularly Dictionaries, Which are Published from Time to Time.
Claims use since Apr. 8, 1913.

157,824. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIFFLIN CHEMICAL CORPORATION, Philadelphia, Pa. Filed July 6, 1921. Serial No. 150,077.

ALKOHOL-SPONGE

Particular description of goods.—Antiseptic Preparation.
Claims use since May 31, 1921.

157,825. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MILLER LABORATORIES, INC., Washington, D. C. Filed Aug. 4, 1921. Serial No. 151,369.

MILLER

Particular description of goods.—Shaving Soap Cream.
Claims use since October, 1919.

157,826. (CLASS 39. CLOTHING.) NATIONAL GLOVE CO., Columbus, Ohio. Filed May 12, 1921. Serial No. 147,636.

NAPA GOAT National

Particular description of goods.—Leather and Fabric Gloves.
Claims use since Feb. 1, 1921.

157,827. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN J. O'LEARY, Buffalo, N. Y. Filed May 10, 1920. Serial No. 132,261.

GOLD MEDAL

Particular description of goods.—Cleaning Composition for Carpets, Rugs, Clothing, Tapestry, Upholstered Furniture, Window Shades, Glassware, Spats, Tops of Shoes, Velvet, Woodwork, Tile, Bathtubs, Linoleum, Automobiles, and Painted Surfaces.
Claims use since Sept. 30, 1918.

157,828. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) PACIFIC NOVELTY COMPANY, New York, N. Y. Filed Apr. 13, 1922. Serial No. 162,263.

Perfection

Particular description of goods.—Hairpins, Combs, Barrettes, and Hair Ornaments, All of Said Articles Being Made of a Composition Similar to Celluloid.
Claims use since Aug. 10, 1910.

157,829. (CLASS 39. CLOTHING.) PAIGE HAT CO., INC., New York, N. Y. Filed Nov. 22, 1921. Serial No. 155,770.

Paige

Particular description of goods.—Ladies' Hats.
Claims use since July 1, 1920.

157,830. (CLASS 39. CLOTHING.) G. M. POIX, INC., Brooklyn, N. Y. Filed Oct. 31, 1921. Serial No. 154,844.

GIRLISH FORM

Particular description of goods.—Brassières.
Claims use since Oct. 7, 1919.

157,831. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) QUAKER LACE COMPANY, Philadelphia, Pa. Filed June 8, 1922. Serial No. 165,206.

TUSCAN

Particular description of goods.—Lace Curtains and Nets or Curtain Lace in Piece Goods.
Claims use since Oct. 1, 1920.

157,832. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS ROESSEL & CO. INC., New York, N. Y. Filed May 20, 1921. Serial No. 147,992.

ROESSEL

Particular description of goods.—Crêpe in the Piece.
Claims use since May 11, 1921.

157,833. (CLASS 39. CLOTHING.) SAMUEL RUBIN, Mount Vernon, N. Y. Filed June 6, 1921. Serial No. 148,765.

MANYSHFORM

Particular description of goods.—Brassières.
Claims use since Jan. 2, 1909.

157,834. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE M. SHAFFER COMPANY, Philadelphia, Pa. Filed Mar. 24, 1922. Serial No. 161,209.

FRENCH QUININE

Particular description of goods.—Tonic for the Scalp and Hair.
Claims use since on or about July 8, 1918.

157,835. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE M. SHAFFER COMPANY, Philadelphia, Pa. Filed Mar. 24, 1922. Serial No. 161,210.

FRENCH LILAC

Particular description of goods.—Toilet Water.
Claims use since on or about Nov. 29, 1919.

157,836. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. S. STODDARD & CO., INC., New York, N. Y. Filed Mar. 3, 1922. Serial No. 160,162.

STODDARD'S GLYCO-HYDRASTIN

Particular description of goods.—A Medicine for the Treatment of Dyspepsia.
Claims use since June 23, 1904.

157,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. S. STODDARD & CO., INC., New York, N. Y. Filed Mar. 3, 1922. Serial No. 160,163.

STODDARD'S PINUS-CODEIA

Particular description of goods.—A Medicine for the Treatment of Coughs and All Irritating and Inflammatory Conditions of the Respiratory Tract.
Claims use since June 23, 1904.

157,838. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. S. STODDARD & CO., INC., New York, N. Y. Filed Mar. 3, 1922. Serial No. 160,164.

PEPTO-PAPAYA

STODDARD

Particular description of goods.—A Medicine for the Treatment of Peptic and Intestinal Indigestion, Nausea, Flatulence, Palpitation, Acidity, and Vertigo.
Claims use since June 23, 1904.

157,839. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BENGT WALLGREN, Dover, N. J. Filed June 1, 1921. Serial No. 148,519.

EVERLASTING

Particular description of goods.—Stove Polish.
Claims use since Apr. 12, 1921.

157,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH WEBER, Jr., Philadelphia, Pa., and Jackson, N. H. Filed Mar. 4, 1922. Serial No. 160,219.

RED OIL

Particular description of goods.—A Certain Named Medicinal Preparation.
Claims use since on or about Nov. 1, 1919.

157,841. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ALBERT G. WISWELL, Wilmington, Del. Filed Nov. 3, 1921. Serial No. 155,002.

MEDICUS SOAP

Particular description of goods.—Soap.
Claims use since Nov. 1, 1920.

LABELS

REGISTERED AUGUST 15, 1922.

24,868.—*Title:* "MITY-NICE." (For a Wrapper for Toilet Paper Rolls.) ANDERSON PAPER & TWINE COMPANY, Altoona, Pa. Filed June 8, 1922.

24,869.—*Title:* "PIMIENTILLO." (For Tomatoes.) BRYANT PRODUCE COMPANY, Los Angeles, Calif. Filed July 10, 1922.

24,870.—*Title:* "SANITARY MILK BOTTLER HOLDER." (For Covers for Milk-Bottle Holders.) CHARLES COHEN, Bridgeport, Conn. Filed May 16, 1922.

24,871.—*Title:* "FALCON." (For Packages and Boxes Containing Hairpins.) EDWARD B. DEWEY, doing business under the name of Falcon Products, Inc., Brooklyn, N. Y. Filed June 17, 1922.

24,872.—*Title:* "DUNBAR'S PITCHER MOLASSES." (For Molasses.) DUNBAR MOLASSES & SYRUP CO., New Orleans, La. Filed May 27, 1922.

24,873.—*Title:* "TRUFOOD." (For Breakfast Cereal.) GEORGE W. FARNY, doing business as Farny Trufood Company, Morris Plains, N. J. Filed July 11, 1922.

24,874.—*Title:* "VAN-GUARD." (For Toilet Paper.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed May 16, 1922.

24,875.—*Title:* "SCOTCH MIST." (For a Beverage.) HENRY-BROWN COMPANY, INC., Glendale, Calif. Filed July 10, 1922.

24,876.—*Title:* "A. C. HYND'S HAIR-SHE-EN." (For Bottles and Cartons and Packages Containing the Product Called by Said Name.) A. C. HYND, doing business as A. C. Hynd Co., Buffalo, N. Y. Filed July 3, 1922.

24,877.—*Title:* "A. C. HYND'S HYGIENIC HAIRLIFE." (For Bottles and Cartons and Packages Containing the Product Called by Said Name.) A. C. HYND, doing business as A. C. Hynd Co., Buffalo, N. Y. Filed July 3, 1922.

24,878.—*Title:* "HANDY ANDY." (For Sealing Tape.) LIBERTY PAPER CO., New York, N. Y. Filed July 10, 1922.

24,879.—*Title:* "WHITE ROSE." (For Bread.) MASSACHUSETTS BAKING COMPANY, Hartford, Conn., and Springfield, Mass. Filed June 5, 1922.

24,880.—*Title:* "ROSE BUD BRAND EXTRA FANCY BASKET FIRED JAPAN TEA." (For Tea.) MUTUAL SUPPLY CO., San Francisco, Calif. Filed October 22, 1921.

24,881.—*Title:* "POPPY BRAND EXTRA CHOICEST BASKET FIRED JAPAN TEA." (For Tea.) MUTUAL SUPPLY CO., San Francisco, Calif. Filed October 22, 1921.

24,882.—*Title:* "H. G. PRINCE & CO.'S FINEST." (For Fruit Salad.) H. G. PRINCE & CO., Oakland, Calif. Filed July 10, 1922.

24,883.—*Title:* "REAL SILK SUPER-SERVICE SOCKS." (For Hose.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed July 10, 1922.

24,884.—*Title:* "REAL SILK SUPER-SERVICE SOCKS." (For Hose.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed July 10, 1922.

24,885.—*Title:* "SILVER CAKE." (For Cake.) SCHULZE BAKING COMPANY, Chicago, Ill. Filed June 17, 1922.

24,886.—*Title:* "GOLDEN CAKE." (For Cake.) SCHULZE BAKING COMPANY, Chicago, Ill. Filed June 17, 1922.

24,887.—*Title:* "FRUIT CAKE." (For Cake.) SCHULZE BAKING COMPANY, Chicago, Ill. Filed June 17, 1922.

24,888.—*Title:* "RAISIN CAKE." (For Cake.) SCHULZE BAKING COMPANY, Chicago, Ill. Filed June 17, 1922.

24,889.—*Title:* "CHOCOLATE CAKE." (For Cake.) SCHULZE BAKING COMPANY, Chicago, Ill. Filed June 17, 1922.

24,890.—*Title:* "MARSHMALLOW LAYER CAKE." (For Cake.) SCHULZE BAKING COMPANY, Chicago, Ill. Filed June 17, 1922.

24,891.—*Title:* "MAPLE NUT CAKE." (For Cake.) SCHULZE BAKING COMPANY, Chicago, Ill. Filed June 17, 1922.

24,892.—*Title:* "FRU-TORTEN CAKE." (For Cake.) SCHULZE BAKING COMPANY, Chicago, Ill. Filed June 17, 1922.

24,893.—*Title:* "SCHULZE QUALITY PRODUCTS." (For Baking Products, Such as Bread, Doughnuts, Biscuit, and Cake.) SCHULZE BAKING COMPANY, Chicago, Ill. Filed June 17, 1922.

24,894.—*Title:* "HAMPSHIRE MAID BREAD." (For Bread.) SHAWMUT MILLS, Holliston, Mass. Filed August 3, 1921.

24,895.—*Title:* "TOMMY TUCKER BREAD." (For Bread.) SHAWMUT MILLS, Holliston, Mass. Filed April 10, 1922.

24,896.—*Title:* "NUL." (For a Preparation for Checking Perspiration.) SHEFFIELD PHARMACAL CO., Chicago, Ill. Filed July 10, 1922.

24,897.—*Title:* "SATISFACTOREE." (For Apples.) SKOOKUM PACKERS ASSOCIATION, Wenatchee, Wash. Filed July 10, 1922.

24,898.—*Title:* "SMUCKER'S PURE APPLE BUTTER." (For Apple Butter.) THE J. M. SMUCKER CO., Orrville, Ohio. Filed June 16, 1922.

24,899.—*Title:* "THOMPSON & COMPANY." (For Cigars.) THOMPSON & COMPANY, Tampa, Fla. Filed May 24, 1922.

24,900.—*Title:* "YORKWIN." (For Fresh Fruit.) WESTERN NEW YORK FRUIT GROWERS' CO-OPERATIVE PACKING ASS'N, INC., Rochester, N. Y. Filed July 5, 1922.

24,901.—*Title:* "GOLD CHAIN." (For Egg Cartons.) WRIGHT & PARKER CO., Detroit, Mich. Filed July 10, 1922.

PRINTS

REGISTERED AUGUST 15, 1922.

6,259.—*Title:* "TRAVELLA THE TAKE-DOWN UMBRELLA LESSENS TRAVEL WORRIES." (For Advertising Purposes for Umbrellas.) WILLIAM BEEHLER, Baltimore, Md. Filed December 7, 1920.

6,260.—*Title:* "'THE BEST POLICY'." (For Advertising Purposes for Wheat Breakfast Food.) CREAM OF WHEAT CO., Minneapolis, Minn. Filed July 8, 1922.

6,261.—*Title:* "EATON'S HIGHLAND LINEN THE CORRECT WRITING PAPER." (For Advertising Purposes for Eaton's Highland Linen. EATON, CRANE & PIKE COMPANY, Pittsfield, Mass. Filed July 8, 1922.

6,262.—*Title:* "HEINZ FRUITS AND VEGETABLES ARE GROWN IN THE GARDEN SPOTS OF THE WORLD." (For Advertising Purposes for Heinz 57 Varieties of Products.) H. J. HEINZ CO., Pittsburgh, Pa. Filed July 8, 1922.

6,263.—*Title:* "KRANK'S LEMON CLEANSING CREAM." (For Advertising Purposes for a Cleansing Cream.) ALFRED J. KRANK, St. Paul, Minn. Filed August 30, 1921.

6,264.—*Title:* "SNAP-ON MORE THAN A CURTAIN ROD." (For Advertising Purposes for a Curtain Rod.) S. W. LONG, New York, N. Y. Filed July 3, 1922.

6,265.—*Title:* "WINNER." (For Advertising Purposes for Candy Bars.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 3, 1922.

6,266.—*Title:* "GOODY CAKE." (For Advertising Purposes for Candy Bars.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 5, 1922.

6,267.—*Title:* "PERFECTION PEANUT-CREAM BAR." (For Advertising Purposes for a Peanut and Cream Bar.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 5, 1922.

6,268.—*Title:* "RICE'S EARLY FORTUNE CUCUMBER." (For Advertising Purposes for Cucumbers.) JEROME B. RICE SEED CO., Cambridge, N. Y. Filed November 22, 1920.

6,269.—*Title:* "THE LAST WORD IN OBSTETRICS." (For Advertising Purposes for Obstetrical Tables.) JOHN H. THOMSEN, doing business as Nesmoht Sales Co., Omaha, Nebr. Filed July 10, 1922.

6,270.—*Title:* "ELASTICA." (For Advertising Purposes for an Exterior Wall Plaster or Stucco.) U. S. MATERIALS CO., Chicago, Ill. Filed July 22, 1921.

6,271.—*Title:* "COMPLETE IN A SACK." (For Advertising Purposes for "Elastica," an Exterior Wall Plaster or Stucco.) U. S. MATERIALS CO., Chicago, Ill. Filed July 22, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

THE DECO CO. *v.* THE DAYTON IGNITION COMPANY.

1. TRADE-MARKS—OPPOSITION—RIGHTS AS TO FIRM NAME.

The right of a firm to oppose the registration of its name by others on the ground that it would be an appropriation of its name extends only to the exact words of the name and not to words that bear some resemblance thereto.

2. SAME—SAME—THE WORD "DICO" NOT AN INFRINGEMENT OF THE NAME DECO COMPANY.

The Deco Company opposed the registration of the word "Dico," for spark plugs, on the ground that it would be an appropriation of the firm name. *Held* that the opposition was properly dismissed.

APPEAL from Examiner of Interferences.

TRADE-MARK FOR SPARK PLUGS.

Messrs. Munn & Co. for The Deco Co.

Mr. F. L. Walker for The Dayton Ignition Company.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Examiner of Interferences dismissing an opposition brought by the Deco Co., a firm, against the registration of "Dico" as a trade-mark for spark plugs. The Deco Co. has registered its trade-mark "Deco" for several classes of goods which do not include spark plugs, and none of which "are identical or even similar in their physical characteristics or properties." The substantial question, therefore, is whether the mark for which registration is now asked is merely the name of the opposing firm. Opposer relies upon the *The Asbestone Company* v. *The Philip Carey Mfg. Co.* (200 O. G., 857; 41 App. D. C., 507; 1914, C. D., 146.) In that case and in all cases which I find the mark the registration of which was refused was identical with the name of the opposing company. In the present instance the registrant's mark includes the letter "i" in place of the letter "e" in opposer's name. This may be a slight difference, but I am constrained to hold that it is a sufficient difference to warrant the dismissal of the opposition.

The Examiner of Interferences is affirmed and the opposition dismissed.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—First Circuit.

O'SULLIVAN RUBBER CO., INC., *v.* GENUINE RUBBER CO. ET AL.

Decided April 11, 1922.

[279 Fed. Rep., 972.]

1. TRADE-MARKS AND TRADE-NAMES AND UNFAIR COMPETITION—EXCLUSIVE RIGHT TO USE TRADE-MARK OF PATENTED ARTICLE EXPIRES WITH PATENT.

On expiration of a patent the exclusive right to use the generic name by which the patented article has been designated, in the nature of a trade-mark, also expires.

2. SAME—IMITATION OF DRESS HELD TO CONSTITUTE UNFAIR COMPETITION.

For 25 years complainant has made and sold rubber heels for shoes and has built up an extensive trade. During that time it obtained a patent on its product, which has expired. Before, during the life of, and since the expiration of the patent it has impressed on its heels in raised letters and in a peculiar design the words "O'Sullivan's Safety Cushion Heel," and such words and design have come to designate to the purchasing public complainant's product, which for much the greater part is sold through jobbers to cobblers, who sell to the users. Since expiration of the patent defendant has commenced the manufacture of similar heels sold in the same manner, but at a lower price, on which are impressed in similar design and style of letters the words "The Genuine Safety Cushion Heel." It also uses cartons, each containing one pair of heels, very similar in general appearance to those of complainant. *Held* that defendant was chargeable with unfair competition.

APPEAL from the District Court of the United States for the District of Massachusetts; George W. Anderson, judge.

Suit in equity by the O'Sullivan Rubber Company, Inc., against the Genuine Rubber Company and others. Decree for defendants, and complainant appeals. Reversed.

Mr. Frederick P. Fish (*Mr. Alfred H. Hildreth* and *Mr. Clinton H. Blake, jr.*, on the brief) for appellant.

Mr. Arthur P. French (*Mr. Timothy A. O'Leary* on the brief) for appellees.

Before BINGHAM and JOHNSON, Circuit Judges, and MORRIS, District Judge.

BINGHAM, *Cir. J.:*

This is a proceeding in equity brought by the complainant, appellant, against the defendants, appellees, asking an injunction restraining the defendants from putting on the market a suction recess heel and employing in connection therewith certain features as to structure, words, letters, and the arrangement thereof, similar to those employed by the plaintiff in the marketing of its heel, Exhibit A, and for an accounting.

In the court below it was found and ruled: (1) that the plaintiff's good will in the sale of Exhibit A centered "around the term 'O'Sullivan's Heel,'" and that the words "Safety Cushion" are both descriptive words, in which the plaintiff has no monopoly or exclusive rights; (2) that the cartons used by the respective parties played no part in marketing the goods by cobblers to their patrons; that, in so far as there was a resemblance between the cartons of the defendants and those of the plaintiff, it was not calculated to facilitate palming off the defendants' goods for the plaintiff's to the deception of the public; (3) that the evidence as to alleged palming off had no "tendency to show any palming off or substitution of defendants' heels for the plaintiff's, within the meaning of those phrases as employed in unfair competition law"; and (4) that the defendants were seasonably notified by the

plaintiff of its contention that the defendants' heel unfairly resembled the plaintiff's. Having made these findings, a decree was entered dismissing the bill, and the plaintiff appealed.

The main facts in the case are not in dispute. The principal questions relate to the legitimate deductions to be made from those facts and whether the deductions present a case of unfair competition.

The plaintiff and its predecessors in title have been engaged in the sale or manufacture and sale of rubber heels for more than 25 years. The principal method of marketing its product is and has been by sales to jobbers, who sell to cobblers, who supply them to their customers, the ultimate consumers. Ninety-eight per cent of the plaintiff's sales are made in this way; only two per cent being to manufacturers of shoes. Since 1911 the plaintiff and its predecessors have sold nearly 50,000,000 pairs of heels like Exhibit A, and more than 10,000,000 pairs in each of the years 1919 and 1920; the receipts during the 10 years from 1911 to 1920 from this heel (Exhibit A) being nearly $11,000,000, and in 1920 nearly $2,500,000. Its sales of heels like Exhibit A represent 60 per cent of its entire business, and this amount is ultimately supplied to the public through cobblers, except as to the two per cent supplied to shoe manufacturers. In marketing the heels through jobbers to cobblers, the plaintiff packs them in boxes or cartons like Exhibit D; each box containing a pair of heels. It markets its goods throughout the United States, but largely in New York, Boston, Philadelphia, Chicago, Buffalo, Washington, Pittsburgh, and Baltimore. In the last 23 years the plaintiff and its predecessors have spent more than $5,000,000 in advertising their heels, and in 1920 something rising $700,000 for that year. A special feature of the advertisements has been a picture of the heel (Exhibit A), and on the face of the heel, as presented in the picture, has appeared, since as far back as 1898, the words "O'Sullivan's Safety Cushion Heel," occupying the same places, displayed in type of the same general character, with the word "O'Sullivan's" in a downward curvature, and the word "Safety" in an upward curvature; and since 1905 or 1906 the heel itself, as sold to jobbers and marketed to cobblers, has borne upon its face the words "O'Sullivan's Safety Cushion Heel," displayed in the same manner as upon Exhibit A and in the picture.

The defendants pursue the same method of marketing their goods through jobbers to cobblers, and in so doing pack their heels in boxes or cartons like Exhibit G, one pair of heels in a box. Their heel is in direct competition with the plaintiff's in the territories of Philadelphia and New York. The plaintiff's heel is sold to cobblers for a greater price than the defendants', and the cobblers usually receive from 15 to 25 cents more per pair for putting them on than for those of the defendants.

The extent to which the customers of cobblers specify the particular kind or make of rubber heel desired when having shoes repaired is not shown, but it does appear that customers call for the O'Sullivan heel, and it is a reasonable inference, in view of the amount of plaintiff's sales and its extensive advertising, that they do to a considerable extent.

In this connection, and as bearing upon the liability of the customer in the cobbler shop being misled through the similarity of the defendants' heel in conjunction with the inscription upon it, there was evidence that customers, having left their shoes with a cobbler, requesting O'Sullivan's heels, were, where the cobbler had substituted defendants' heels, led to believe, on calling for their shoes, that they had received the plaintiff's heels, and this after examining the substituted heel, and that they were customers exercising the care of the ordinary purchaser.

In August, 1921, the defendants began putting on the market the heel shown in Exhibit F, bearing the words "The Genuine Safety Cushion Heel," making use of the carton Exhibit G.

[1] The trial in this case was had in November, 1921. The testimony of Mr. H. O'Sullivan, the inscription upon plaintiff's Exhibit 2, and upon other exhibits of its heel, and the advertisements carrying the picture of the heel, show that the plaintiff's predecessors obtained a patent on a heel like Exhibit A, January 24, 1899. There was also direct evidence that this patent had expired more than two years before the trial, but the exact date was not given. It is probable that its expiration was in January, 1916. As above stated, this patented heel was sold and put upon the market with the words "O'Sullivan's Safety Cushion Heel" inscribed upon its face in the form and style appearing upon Exhibit A from a date (1895 or 1896) prior to the issuing of the patent and down to the time of the trial. Such being the situation, it is apparent that since the expiration of the patent in 1916 the plaintiff has had no exclusive right in the manufacture and sale of a suction heel like Exhibit A, nor an exclusive right in the nature of a trade-mark in the words "O'Sullivan's Safety Cushion Heel," as applied to such heel, even though the words "Safety Cushion Heel" may have been descriptive of character when first adopted, and by subsequent use through a long series of years has come to denote origin. (*Yale & Towne Mfg. Co.* v. *Worcester Mfg. Co.*, 195 Fed., 528; 115 C. C. A., 491; *Id*, (D. C.), 205 Fed, 952; *G. & C. Merriam Co.* v. *Ogilvie*, 159 Fed., 638; 88 C. C. A., 596; 16 L. R. A. (N. S.), 549; 14 Ann. Cas., 796; *National Lock Washer Co.* v. *Hobbs Mfg. Co.* (D. C.), 210 Fed., 516; *Merriam Co.* v. *Syndicate Publishing Co.*, 237 U. S., 618, 623; 35 Sup. Ct., 708; 59 L. Ed., 1148.) As stated by Mr. Justice Day in *Merriam Co.* v. *Syndicate Publishing Co.*, supra:

> On the expiration of [the] patent there passed to the public, not only the right to make the machine in the form covered by the Letters Patent, but along with the public ownership of the device described there necessarily passed to the public the generic designation of the thing which had arisen during the life of the monopoly.

[2] But from the fact that the plaintiff has no exclusive right to the manufacture and sale of a suction recess heel like Exhibit A, or to the use of the words "O'Sullivan's Safety Cushion Heel," as used in connection with such a heel, it does not follow that the defendants may use these words in connection with the sale of a heel like Exhibit A in a way calculated to lead the public into believing that their goods are the plaintiff's and to infringe upon the plaintiff's good will. These words as displayed upon plaintiff's heel through a long series of years have unquestionably come to denote to the public the source of origin of the article, and, if the defendants desire to make use of them, they must do so in a way not to mislead and deceive the public into believing that their goods are the plaintiff's.

The evidence shows that no one else has used these words in the sale of such a heel until very recently, and that these people have either been sued by the plaintiff for doing so or have agreed to desist. There is nothing to show that the plaintiff has slept upon its rights in this regard.

It is claimed by the defendants that the plaintiff has used the words "O'Sullivan's Safety Cushion Heel" in different ways upon its heels, sometimes placing the words "Safety Cushion Heel" on the edge of the outer bow of the heel, and the word "O'Sullivan's" across the breast of the heel. It is true that in making women's and youths' heels it has used these words in different positions than they

appear on Exhibit A; but the evidence shows that on its men's heel, Exhibit A, which is sold to cobblers, these words have appeared on the face of the heel since 1905 or 1906 in the same place and displayed in the same manner, and that what is true of the heel is true of the advertisements displaying a picture of the heel. It has sold to manufacturers for use on new shoes men's heels like Exhibit A, bearing the same inscription and displaying the word "Safety" in a straight line and not in an upward curve; but such sales have been to manufacturers only, and represent but 2 per cent of the plaintiff's business, whereas those sold to the public through cobblers represent 58 or 60 per cent.

We therefore think there can be no doubt but that these words, as used on plaintiff's heel, Exhibit A, have come to mean to the mind of the purchasing public that the heel bearing them is manufactured by the plaintiff.

The remaining question is: Have the defendants, in the use they make of the words "The Genuine Safety Cushion Heel," as they appear upon the face of Exhibit F, the heel which they make and sell, so imitated the plaintiff's article as to mislead the public. In comparing the two heels, it will be seen that, while the defendants do not use every word inscribed on the face of plaintiff's heel, they use every word but one—the word "O'Sullivan's"—and substitute for that the words "The Genuine," comprising 10 letters, the same as the word "O'Sullivan's." This enables them to give the same appearance to these words when displayed upon their heel as that possessed by the inscription upon the plaintiff's heel, for they have printed the words "The Genuine" in a downward curve in the same place and in the same character of type as presented by the downward curve of the word "O'Sullivan's" on the plaintiff's heel. Then again the word "Safety" on the defendants' heel is displayed in a type of substantially the same size and character and in the form of an upward curve at the center of the heel as on the plaintiff's; and the words "Cushion Heel" on both heels are printed in the same general type and in the same location and manner. The type on both heels is raised and the structure of the heels is identical. The similarity is so marked as to lead one to believe that the defendants in designing and draping their article had before them Exhibit A; and it appears that the defendant Clapp, who participated with the defendant company in the selection of the inscription upon defendants' heel, and who has had charge of the disposition of their product, knew of and had seen the plaintiff's heel prior to the defendants putting their heel upon the market. Clapp's only explanation for making use of the words "The Genuine Safety Cushion Heel" is that they adopted the words "The Genuine" to indicate genuine rubber heels and the words "Safety Cushion Heel" as they were merely descriptive of the article.

But we think the only reasonable conclusion is that the words as used on defendants' heel present such a similarity to those of the plaintiff as to indicate to the ordinary purchaser that the defendants' heels are the plaintiff's, and that the defendants adopted the words "The Genuine Safety Cushion Heel" and displayed them upon their product with the intent and purpose of leading the public to believe that their heel was that of the plaintiff.

We are also of the opinion that the reduced price at which a cobbler can procure the defendants' heels offers an inducement to him to produce them, and, being aware of the similarity of structure and inscription, to palm them off on the public as the goods of the plaintiff, thereby increasing his return.

Although there was no direct evidence that the cartons, in which each pair of heels was packed and shipped to the cobblers, were displayed by them in their windows or on their shelves, it is evident from the advertising matter displayed upon the cartons that they were intended for this purpose by both the plaintiff and the defendants, and it is inconceivable that such use has not been made of them.

The background of the cartons, both of the plaintiff and of the defendants, is yellow, and across the broad face of each is a slanting bar. On the plaintiff's the bar is white and bears the word "O'Sullivan's" in red letters. On the defendants' the bar is black and bears the words "The Genuine" in yellow letters. In the plaintiff's, below the slanting bar and to the right, is a picture of a suction recess heel, which bears the inscription "O'Sullivan's Safety Cushion Heel," printed in exactly the same way as upon its Exhibit A. In the defendants', below the slanting bar and at the right, is a picture of a suction recess heel bearing the inscription, "The Genuine Safety Cushion Heel," printed in exactly the same way as upon Exhibit F. At the left of the heel on both cartons are the words "Safety Cushion Heel," and below these are the words, on the plaintiff's, "Manufactured by O'Sullivan Rubber Co., Inc., New York, U. S. A.," and on the defendants', "Manufactured by the Genuine Rubber Co., Saugus, Mass." It may be that the average purchaser, if he had these cartons before him side by side, would detect the difference and not be misled by the labels which they bear. But that is not the test. The test is whether an ordinarily prudent purchaser would be misled in the purchase of the goods due to the similarity in the make-up of the cartons when they are not displayed side by side. We think the fair inference is that such would be the result, and that the defendants should be required to remove the picture of the heel upon their cartons and do away with the slanting bar. This being done and the color of their cartons changed, it seems to us that the points of similarity would be sufficiently removed.

As to the defendants' heels, we think the language should be changed to read "The Genuine Co.'s Safety Cushion Heel," in that none of the words should be arranged in curves as on plaintiff's heel; and that the character of the type should be changed, so as to bear no resemblance to that used by the plaintiff.

It follows from what we have said that the decree of the district court dismissing the bill must be reversed, and that an injunction should issue against the defendants, enjoining them from putting upon the market their heel and cartons, except as modified in the particulars above enumerated. All questions of accounting, including the question whether the plaintiff is entitled to any accounting, are left open for the district court to pass upon. (See *G. & C. Merriam Co.* v. *Ogilvie*, 170 Fed., 167; 95 C. C. A., 423.)

The decree of the district court is reversed, and the cause is remanded to that court for further proceedings not inconsistent with this opinion, with costs to the appellant.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) The Conner patent, No. 932,965, for a solid bifocal lens. *Held* not infringed. *One Piece Bifocal Lens Co.* v. *Stead*, 280 Fed. Rep., 382.

(U. S. C. C. A. N. Y.) The Harris patent, No. 1,112,609, for press feeding mechanism. *Held* valid, but not infringed. *Harris Automatic Press Co.* v. *Hall Printing Press Co.*, 280 Fed. Rep., 329.

(U. S. C. C. A. N. Y.) The Kurtz patent, No. 1,216,140, for hat lining, *Held* to disclose invention. *Kurtz* v. *Belle Hat Lining Co.*, 280 Fed. Rep., 277.

(U. S. C. C. A. Md.) The Wennagel patent, No. 1,307,070, for device for dissipating heat in underground conduits, *Held* void for lack of invention. *Wennagel* v. *Consolidated Gas, Electric Light & Power Co. of Baltimore*, 280 Fed. Rep., 370.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

735,131, 749,214, 783,127, 783,453, 816,591, 827,259, 858,745, 933,098, 1,003,632, 1,005,263, 1,042,135, 1,042,363, S. N. McClean, Firearms, suit filed March 3, 1920, U. S. D. C., N. D. Ohio (E. Div.), Doc. 531. *H. N. Wall et al.* v. *M. A. Bradley et al.*; same, suit filed October 13, 1920, U. S. D. C., N. D. Ohio (E. Div.), Doc. 581–582 consolidated, *S. N. McClean et al.* v. *Bradley et al.* Bills dismissed without prejudice, March 6, 1922, and April 19, 1922.

749,214. (See 735,131.)

783,127. (See 735,131.)

783,453. (See 735,131.)

793,743, T. Sandmeyer, Azo dye and process of making same, suit filed July 1, 1922, U. S. D. C., E. D. Wis., Doc. 1244 C. D., *National Aniline & Chemical Co. et al.* v. *Newport Chemical Works, Inc.*

816,591. (See 735,131.)

827,259. (See 735,131.)

858,745. (See 735,131.)

913,162, 1,199,418, J. H. Rand, Index guides and similar devices, suit filed June 30, 1922, U. S. D. C., E. D. Pa., Doc. 2575, *Rand Co., Inc.* v. *C. R. Harrison & Co.*

933,098. (See 735,131.)

958,478, W. E. Davey, Process of reinforcing trees, suit filed July 10, 1922, U. S. D. C., E. D. Wis., Doc. 1249 C. D., *The Davey Tree Expert Co.* v. *F. M. Fowler.*

1,003,632. (See 735,131.)

1,005,263. (See 735,131.)

1,042,135. (See 735,131.)

1,042,363. (See 735,131.)

1,095,168, C. B. and F. A. Shriner and F. W. Miller, Apparatus for raising and lowering caskets, suit filed July 18, 1922, U. S. D. C., E. D. Wis., Doc. 1250 C. D., *Monroe Burial Device Co.* v. *Oshkosh Lowering Device Co.*

1,095,775, E. K. Baker, Demountable wheel rims, suit filed July 21, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 757, *Universal Rim Co.* v. *The Firestone Steel Products Co. et al.*

1,199,418. (See 913,162.)

1,256,885, M. E. Dunkley, Cherry-pitting machines, suits filed January 23, 1919, and May 17, 1920, U. S. D. C., W. D. N. Y., Doc. Eq. 248–B, Eq. 290–B, *Dunkley Co.* v. *Huntley Mfg. Co.* Bill dismissed, July 22, 1922.

1,273,022, W. L. Ashmore and W. T. Morgan, jr., Process and device for finishing concrete pavements, suit filed July 17, 1922, U. S. D. C., N. D. Fla., Doc. 100, *Macon Concrete Roller Co.* v. *John Gerkins.*

1,343,642, C. H. Pray, Fire escape, suit filed January 20, 1922, U. S. D. C., S. D. Calif., Doc. F 89, *C. H. Pray* v. *W. B. Copes et al.* All claims held infringed, July 18, 1922.

1,395,298, 1,412,966, W. H. Richman, Containers, suit filed July 10, 1922, U. S. D. C., E. D. Wis., Doc. 1247 C. D., *J. Wood Mfg. Co. et al.* v. *Geuder, Paeschke & Frey Co. et al.*

1,412,966, W. H. Richman, Containers, suit filed June 23, 1922, U. S. D. C., E. D. Pa., Doc. 2557, *J. Wood Mfg. Co.* v. *Wagner Process Co. et al.* (Also see 1,395,298.)

1,418,949, S. McFarland, Casting apparatus, suit filed July 3, 1922, U. S. D. C., E. D. Pa., Doc. 2577, *S. McFarland* v. *Midvale Steel & Ordnance Co. et al.*

Design 48,213, E. Savage and H. Stratton, Hardening and tempering steel; T.-M. 146,380, Traub Mfg. Co., Finger rings, suit filed July 21, 1922, U. S. D. C., N. D. Ohio (W. Div.), Doc. 323, *Traub Mfg. Co. et al.* v. *Home Furniture Co.*

Design 56,030, N. B. Forrest, Railroad-car brakes, suit filed July 19, 1922, U. S. D. C., W. D. Wash. (N. Div.), Doc. 299, *Sees-All Manufacturing Co.* v. *F. W. Rees and H. H. Welbon (Modern Mfg. Co.).*

T.-M. 146,380. (See Des. 48,213.)

Trade-Mark Rules Revised.

The trade-mark rules and forms have been amended in several respects. A reprint of the laws and rules as now in effect is available for distribution.

Amendments to Trade-Mark Rules.

(ORDER No. 2,774.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 8, 1922.

Acting under the provisions of section 26 of the act approved February 20, 1905, the rules of the Patent Office governing the registration of trade-marks are amended as follows:

Rule 15, cancel the last twelve words, so that the rule as amended will read:

15. For gross misconduct the commissioner may refuse to recognize any person as an attorney, either generally or in any particular case; but the reasons for such refusal will be duly recorded.

At the beginning of rule 19, insert:

"A trade-mark must have been actually used in commerce before an application for its registration can be filed in the Patent Office;"

in the sixth from the last line of rule 19 substitute "is" for "has been;" in the next to the last line, after "use," insert "as a trade-mark," so that the rule will read:

19. A trade-mark must have been actually used in commerce before an application for its registration can be filed in the Patent Office. No trade-mark will be registered to an owner domiciled within the territory of the United States unless it shall be made to appear that the same is used as such by said owner in commerce among the several States, or between the United States and some foreign nation or Indian tribe; no trade-mark except as provided by section 3 of the act of May 4, 1906, and the act of March 19, 1920, will be registered to an owner residing in or located in a foreign country unless said country, by treaty, convention, or law, affords similar privileges to the citizens of the United States; no trade-mark will be registered which consists of or comprises immoral or scandalous matter, or which consists of or comprises the flag or coat of arms or other insignia of the United States, or any simulation thereof, or of any State or municipality, or of any foreign nation, or which consists of or comprises any design or picture that has been adopted by any fraternal society as its emblem, unless it shall be shown to the satisfaction of the Commissioner of Patents that the mark was adopted and used as a trade-mark by the applicant or applicant's predecessors, from whom title is derived, at a date prior to the date of its adoption by such fraternal society as its emblem; and no mark will be registered which is identical with a registered or known trade-mark owned and in use by another, and appropriated to merchandise of the same descriptive properties, or which so nearly resembles a registered or known trade-mark owned and in use by another, and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public, or to deceive purchasers, or, under the act of February 20, 1905, which consists merely in the name of an individual, firm, corporation, or association, not written, printed, impressed, or woven in some particular or distinctive manner or in association with a portrait of the individual, or merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods, or merely a geographical name or term; no portrait of a living individual will be registered as a trade-mark, except by consent of such individual evidenced by an instrument in writing; and no trade-mark will be registered which is used in unlawful business, or upon any article injurious in itself, or which has been used with the design of deceiving the public in the purchase of merchandise, or which is abandoned. No trade-mark will be registered under section 1 (*b*) act of March 19, 1920, which is registrable under the act of February 20, 1905, as amended, or which has not been in bona fide use as a trade-mark for one year in international or interstate commerce or commerce with Indian tribes.

Rule 20, last line, cancel "as provided in section 9 of the act of March 19, 1920."

In rule 22, at the end of paragraph (*b*) insert: "The petition and statement may be incorporated in a single paper," so that the paragraph will read:

(*b*) A statement specifying the name, domicile, location, and citizenship of the party applying, and if the applicant be a corporation or association, the State or nation under the laws of which organized; the class of merchandise (according to the official classification), and the particular description of goods comprised in such class upon which the trade-mark has actually been used; a statement of the mode in which the same is applied and affixed to the goods, and the length of time during which the trade-mark has been used upon the goods specified. A description of the trade-mark itself shall be included, if desired by the applicant or required by the commissioner, provided such description is of a character to meet the approval of the commissioner. The petition and statement may be incorporated in a single paper.

Rule 25, line 1, after "given," insert "prior to publication under rule 40," so that the rule will read:

25. No information will be given, prior to publication under rule 40, without authority of the applicant, respecting the filing of an application for the registration of a trade-mark by any person, or the subject matter thereof, unless it shall, in the opinion of the commissioner, be necessary to the proper conduct of business before the office.

Cancel first paragraph of rule 26.

In rule 28, line 3, after "shall" insert "in the statement," and cancel in lines 4 and 5 "by a notice in writing, filed in the Patent Office," so that the rule will read:

28. Every applicant for registration of a trade-mark, or for renewal of registration of a trade-mark, who is not domiciled within the United States, shall, in the statement, before the issuance of the certificate of registration, designate some person residing within the United States on whom process or notice of proceedings affecting the right of ownership of the trade-mark of which such applicant may claim to be the owner may be served. This notice shall be indorsed upon the file wrapper of the application.

In rule 32, lines 6 and 7, cancel "in addition to the requirements of section 2 of said act, make oath to," and insert "allege in the statement;" cancel the last sentence and insert: "If the application is made under the last paragraph of section 5 of the act of February 20, 1905, the statement shall identify the registered mark and allege use of the mark on the goods of the application for at least one year," so that the rule will read:

32. Where application is made under section 5 of the act of February 20, 1905, on the ground that the mark has been in actual and exclusive use as a trade-mark by the applicant, or his predecessors from whom he derived title, for 10 years next preceding February 20, 1905, the applicant shall allege in the statement such actual use of the mark as a trade-mark by himself or his predecessors, or by those from whom title to the same is derived, for the period specified, and that, to the best of his knowledge and belief, such use has been exclusive. If the application is made under the last paragraph of section 5 of the act of February 20, 1905, the statement shall identify the registered mark and allege use of the mark on the goods of the application for at least one year.

In rule 33, line 3, cancel "declaration" and substitute "statement;" line 8, cancel "or" and substitute "and;" line 9, cancel "as the case may be;" line 13, cancel "declaration, in addition to the requirements of rule 31," and substitute "statement," so that the rule will read:

33. If the applicant for registration under the act of February 20, 1905, as amended, resides or is located in a foreign country, the statement required, unless the application be presented under the provisions of section 3 of the act of May 4, 1906, shall also set forth that the trade-mark has been registered by the applicant, or that an application for the registration thereof has been filed by him in the foreign country in which he resides or is located, and shall give the date of such registration, and of the application therefor. In such cases it shall not be necessary to state that the mark has been used in commerce with the United States or among the States thereof.

If the application be presented under the provisions of section 3 of the act of May 4, 1906, the statement must state that the applicant has a manufacturing establishment within the territory of the United States and that the goods upon which the trade-mark is used are the product of such establishment.

Rule 36 (2), line 5, after "sheet" cancel "is" and substitute "should be" and cancel all the words after "top;" in rule 36 (4), lines 2 and 3, cancel "placed at the lower right-hand corner of the sheet," so that (4) will read:

(4) The name of the proprietor of the trade-mark, signed by himself or by his attorney of record, must be within the marginal lines, but in no instance should it encroach upon the drawing.

Rule 36(5) cancel all the words after "side" in line 2.

Rule 40, line 11, change "58" to "69."

Rule 41, line 4, after "trade mark" insert "or to the description of the goods." At the end of the rule add: "or supported by additional specimens (or facsimiles) and a supplemental declaration," so that the rule will read:

41. The statement may be amended to correct informalities, or to avoid objections made by the office, or for other reasons arising in the course of examination, but no amendments to the description or drawing of the trade-mark or to the description of the goods will be permitted unless warranted by something in the specimens (or facsimiles) as originally filed, or supported by additional specimens (or facsimiles) and a supplemental declaration.

Rule 45*a*, line 2, cancel "prior to November 1, 1911, or for one year," at the end change "57*a*" to "65." so that the rule will read:

45*a*. If an applicant fail to prosecute his application within one year after the date when the last official notice of any action by the office was mailed to him, the application will be held to be abandoned, as set forth in rule 65.

Rule 46, line 1, after "made" insert "under the act of February 20, 1905;" lines 6 and 7, cancel "or a known trade-mark owned and used by another;" at the end of line 8 add: "No interference will be declared with respect to applications filed under the act of March 19, 1920," so that the rule will read:

46. Whenever application is made under the act of February 20, 1905, for the registration of a trade-mark which is substantially identical with a trade-mark appropriated to goods of the same descriptive properties, for which a certificate of registration has been previously issued to another, or for registration of which another had previously made application, or which so nearly resembles such trade-mark as, in the opinion of the commissioner, to be likely to be mistaken therefor by the public, an interference will be declared. No interference will be declared with respect to applications filed under the act of March 19, 1920.

Rule 48, lines 6 and 7, cancel "or which amounts to a statutory bar to registration of the mark to any or all of the parties," so that the rule will read:

48. The examiner in charge of interferences may, either before or in his final decision in an interference or opposition, direct the attention of the commissioner to any matter which may have come to his notice which can not be acted upon by him, which in his opinion precludes a proper determination of questions raised by the proceeding. The commissioner may, before judgment, suspend the interference or opposition and remand the same to the examiner in charge of trade-marks for his consideration of the matters to which attention has been directed. If the case be not so remanded, the examiner in charge of trade-marks will, after judgment, consider any matter affecting right to registration which may have been brought to his attention, unless the same shall have been previously disposed of in the proceeding. From the decision of the examiner in charge of trade-marks appeals may be taken as in other cases.

Rule 51, at the end of the first sentence add: "Two specimens (or facsimiles) of the mark actually used by the opposer, if there be such, should be filed," so that the rule will read:

51. Any person who believes he would be damaged by the registration of a mark applied for under the act of February 20, 1905, as amended, may oppose the same by filing a written notice of opposition stating the grounds therefor, within 30 days after the publication of the mark sought to be registered, which notice of opposition shall be accompanied by the fee required by law and shall be verified by the person filing the same before one of the officers mentioned in section 2 of the act of February 20, 1905. Two specimens (or facsimiles) of the mark actually used by the opposer, if there be such, should be filed. An opposition may be filed by a duly authorized attorney, but such opposition shall be null and void unless duly verified by the opposer, within a reasonable time after such filing. A duplicate copy of the notice of opposition must be filed, either with the notice of opposition or within a reasonable time after the filing of the same.

Rule 52, at the end of the rule add:

"such application shall be accompanied by two specimens or facsimiles of the mark actually used by the applicant for cancellation, if there be such. Such application shall be accompanied by a title abstract of the mark to be canceled and shall indicate the respondent party to whom notice shall be sent by the Commissioner of Patents."

so that the rule will read:

52. Any person, deeming himself to be injured by the registration of a trade-mark in the Patent Office, may, at any time, make application to the commissioner to cancel the registration thereof. Such application shall be filed in duplicate, shall state the grounds for cancellation, and shall be verified by the person filing the same, before one of the officers mentioned in section 2 of the act of February 20, 1905. Such application shall be accompanied by two specimens or facsimiles of the mark actually used by the applicant for cancellation, if there be such. Such application shall be accompanied by a title abstract of the mark canceled and shall indicate the respondent party to whom notice shall be sent by the Commissioner of Patents.

Rule 54, line 1, cancel "and all applications for cancellation," so that the rule will read:

54. In cases of opposition, the examiner in charge of trade-marks shall forward the files and papers to the examiner in charge of interferences, who shall give notice thereof to the applicant or registrant. The applicant or registrant must make answer at such time, no less than 30 days from the date of the notice, as shall be fixed by the examiner in charge of interferences.

Rule 55, add: "Pleadings and procedure with respect thereto shall be governed by the rules in equity suits in the United States courts," so that the rule will read:

55. The proceedings, on oppositions, and on applications for cancellation, shall follow, as nearly as practicable, the practice in interferences between applications for patent. Pleadings and procedure with respect thereto shall be governed by the rules in equity suits in the United States courts.

Rule 56*a*, line 2, after "been" insert "twice," so that the rule will read:

56*a*. Upon receiving a petition stating concisely and clearly any proper question which has been twice acted upon by the examiner in charge of trade-marks which does not involve the merits of a trade-mark claimed under the act of February 20, 1905, as amended, the refusal of registration of such trade-mark, or a requirement for division, and also stating the facts involved and the point or points to be reviewed, an order will be made fixing a time for hearing such petition by the commissioner, and directing the examiner to furnish a written statement of the grounds of his decision upon the matters averred in such petition within five days after being notified of the order fixing the day of hearing. The examiner shall, at the time of making such statement, furnish a copy thereof to the petitioner. No fee is required for such a petition.

Rule 58, line 11, cancel "photolithographed;" cancel the last four words, so that the rule will read:

58. When the requirements of the law and of the rules have been complied with, and the office has adjudged a trade-mark registrable under the act of February 20, 1905, as amended, and section 1 (*b*) of the act of March 19, 1920, a certificate will be issued, signed by the commissioner, under the seal of the Patent Office, to the effect that the applicant has complied with the law and that he is entitled to registration of his trade-mark. The certificate shall state the date on which the application for registration was received in the Patent Office and the act under which the mark is registered. Attached to the certificate will be a copy of the drawing of the trade-mark and a printed copy of the statement.

At the end of rule 65 add: "as of a date not later than the fourth Thursday before the date the certificate of registration is to bear," so that the rule will read:

65. The certificate of registration may be issued to the assignee of the applicant, but the assignment must first be entered of record in the Patent Office, as of a date not later than the fourth Thursday before the date the certificate of registration is to bear.

Rule 69, after line 2, insert:

"On filing each application for a communication to the International Bureau, Habana..... 5.00"

line 5, after "patents" insert "Under the act of February 20, 1905," after line 12, insert:

"For photostat copies of records:
Size 10 by 15 inches, per copy..... .25
Size 8 by 12½ inches, per copy..... .15
If certified, for the certificate additional..... .25"

after line 16, insert:

"For each additional trade-mark or application included or involved in one writing, when more than one is so included or involved, additional.. .25"

line 18, change "1.00" to "2.00;" lines 19, 22, and 23, change ".50" to "1.00."

Change the numbers of rules 45*a*, 45*b*, 45*c*, 45*d*, 46, to 47, 48, 49, 50, respectively; renumber the first paragraph of rule 47 as 51; number the second paragraph of rule 47 as 52; change the numbers of rules 48 to 62, inclusive, to 53 to 73, inclusive, insert the following rules as 74 and 75:

74. An application for the renewal of a trade-mark registration may be made by the owner or his duly authorized attorney and should consist of a request addressed to the Commissioner of Patents to renew such certificate of registration, accompanied by the proper fee, and if the applicant for renewal is other than the owner of record in the Patent Office, by a showing of title to the certificate to be renewed.

75. Under the Convention adopted for the establishment of an International Bureau at Habana, and the regulations of such bureau provided to carry into effect the Convention for the Protection of Trade-Marks, the Commissioner of Patents will communicate to the International Bureau the claim of the owner of the mark on the written request of the owner of the mark or his duly authorized agent, accompanied by a fee of $5.00, together with (*a*) an international money order for $50 to the order of "Director of the International Bureau, Habana;" (*b*) an electrotype of the trade-mark not larger than 10 centimeters in either dimension; (*c*) should the United States registration claim color as a distinctive element of the trade-mark, thirty copies of the mark printed on paper, reproduced in color; (*d*) a statement including (1) the name of the owner of the mark; (2) the address of the owner of the mark; (3) the number and the date of registration of the mark in the United States Patent Office; and (*d*) a translation into Spanish of the particular description of goods as stated in the certificate of registration.

Change the numbers of rules 63 to 75, inclusive, to 76 to 88, inclusive.

THOMAS E. ROBERTSON,
Commissioner.

Patents Nos. 1,426,340 to 1,427 081.

THE

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OF THE

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Trade-Marks	325—No. 157,842 to No. 158,166, inclusive.	
Reissues	5—No. 15,432 to No. 15,436, inclusive.	
Total	1093	

Librarian.

Mr. Miles O. Price, for eight years librarian of the University of Illinois, has been appointed librarian of the Patent Office and assumed his duties on August 15, 1922.

Adverse Decisions in Interference.

PATENT No. 1,314,102.

On January 4, 1922, a decision was rendered that Von Arco and Meissner were not the first inventors of the subject matter covered by claim 8 of their Patent No. 1,314,102, subject, "Connections for electric relays working with ionized gas gap," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,346,682.

On July 10, 1922, a decision was rendered that Harry K. Reinoehl was not the first inventor of the subject matter covered by claims 1, 2, 3, 4, and 5 of his Patent No. 1,346,682, subject, "Spring eye protectors for automobiles," and no appeal having been taken within the time allowed such decision has become final.

Renewal of Forfeited Cases.

A petition for the renewal of a forfeited application need not be signed by the inventor or assignee, but may be signed by the attorney.

A power of attorney in the original application authorizing an attorney to transact all business in the Patent Office in connection with the application construed to be of sufficient scope to include the signing of a petition for renewal and the subsequent prosecution of the application. (*Ex parte Apee*, 101 O. G., 1600.)

Drawings.

PRECAUTIONS TO BE OBSERVED IN FORWARDING DRAWINGS TO THE UNITED STATES PATENT OFFICE.

Where drawings are to be filed in connection with an application for Letters Patent in the United States Patent Office, each sheet, before it can be accepted by the Office as a part of the application, must be signed in the name of the inventor at the lower right-hand corner, either by him or by an attorney whose written authorization from the applicant is filed in connection with the application. The signatures should never be written on a line parallel with the longer edges of the sheet, one of the shorter edges being always regarded, for the purpose of locating the signatures, as the lower edge of the sheet. The signatures must all be within the margin-lines of the sheet and below the lines of the drawing. The title of the invention should be written with pencil on the back of each sheet of drawings.

When there are filed on the same day two or more applications by the same inventor, each of the documents and drawings belonging to the same application should have placed thereon the same letter or number, which should be different from the letter or number placed upon those of any other of the applications.

It is desirable that all parts of the complete application, including the drawings, be deposited in the Office at the same time. Should, however, the other parts of the application be filed before the drawings are sent, the latter when forwarded should be accompanied by a letter stating the number of sheets inclosed and that the drawings are to be filed with the other parts of the application, giving the date at which such other parts were filed in the Office, the name of the inventor, and title of the invention. If the application has received a serial number, that should also be given, and it should be indorsed with pencil on the back of each sheet of drawings. The letter should also state, if such be the case, that the new drawings are to be substituted for those previously filed.

The Official Gazette.

THE OFFICIAL GAZETTE is published every Tuesday simultaneously with the weekly issue of patents. From January 1, 1872, (the commencement of its publication,) to June 30, 1883, it was published and bound in semi-annual volumes; from July 1, 1883, to December 31, 1902, in quarterly volumes; from January 1, 1903, to December 31, 1908, in bimonthly volumes; since January 1, 1909, in monthly volumes. Terms: Annual subscriptions, $5; monthly, 50 cents. For postage upon foreign subscriptions, except those from Canada and Mexico, $5 or more, as required. Moneys received from foreign subscribers in excess of the subscription price of $5 will be deposited to the credit of the subscriber and applied to postage upon the subscription as incurred. Single copies, 10 cents; if mailed to foreign countries, excepting Canada and Mexico, 10 cents additional for postage. *Payment in advance required. No club rates. No discount to newsdealers. No sample copies.* All subscriptions must commence with the beginning of a volume. None taken for less than an entire volume. All orders should be addressed to "The Superintendent of Documents, Government Printing Office, Washington, D. C."

Examiners' Letters and Amendments.

Examiners are directed to recite in each letter in an application the date of the action by the applicant to which it is a reply, and applicants are requested to indicate in their actions on an application the date of the last Office letter.

Condition of Applications Under Examination at Close of Business August 12, 1922.

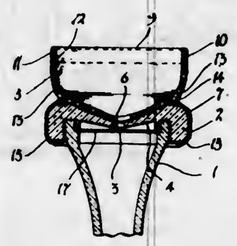
(Total number of applications waiting action, excluding Trade-Mark division, 67,977: Trade-Mark division, 7,989. Oldest new case, May 9, oldest amended, Apr. 18, 1921. The dates given are 1921. except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application awaiting office action. New.	Oldest amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Dec. 13	*Jan. 12	986
178	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	Aug. 26	July 21	1,848
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 16	Aug. 19	938
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven: Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 1	June 10	1,426
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 12	Oct. 10	1,173
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Oct. 24	*Mar. 15	1,384
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Nov. 19	Nov. 30	2,225
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*May 10	*July 1	927
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	July 1	*June 25	1,108
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	*Jan. 27	*May 6	1,067
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 25	*Feb. 28	761
122	12. PIERCE, F. P., Machine Elements	*Feb. 1	*May 1	1,174
229	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	July 16	*May 8	1,629
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	May 27	*Apr. 14	1,190
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 21	Sept. 26	1,737
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Aug. 17	Aug. 15	2,421
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Sept. 23	*Mar. 13	1,425
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	July 5	July 1	2,406
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	July 2	*Jan. 7	1,176
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Mar. 4	*Mar. 9	1,538
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles: Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Oct. 19	*Apr. 13	908
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Nov. 25	*Apr. 21	651
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Aug. 4	Nov. 25	783
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Sept. 29	*Mar. 20	1,736
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*May 3	*May 2	424
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 8	*Jan. 24	1,077
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Oct. 7	Sept. 19	2,040
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 28	Oct. 14	1,661
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Nov. 5	*June 5	648
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Feb. 1	*May 11	1,414
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 6	Oct. 18	2,077
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Oct. 4	*Apr 21	978
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Dec. 20	*Mar. 1	910
304	34. SIMPSON, O. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 22	*Apr. 7	576
82	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 21	*Apr. 26	1,055
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 15	*Feb. 17	1,830
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Oct. 1	Oct. 3	1,838
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 24	Oct. 24	1,758
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 8	June 21	2,138
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Aug. 29	Dec. 10	2,520
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Mar. 10	*Apr. 1	849
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Sept. 24	Aug. 19	1,951
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Sept. 27	Oct. 4	1,115
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 12	Dec. 14	1,412
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Jan. 5	*Feb. 3	1,283
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 26	Dec. 8	1,245
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Nov. 1	*Mar. 6	1,181
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	May 9	Apr. 18	2,846
	49.	June 9	June 8	1,035
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	Sept. 12	*Jan. 30	5,638
	Designs	*Jan. 5	*Apr. 6	2,301
	Labels and Prints	*Aug. 1	*Aug. 7	50

PATENTS

GRANTED AUGUST 22, 1922.

1,426,340. CUSHION FOR TELEPHONE RECEIVERS. OTTO W. AAGAARD, Chicago, Ill. Filed Jan. 19, 1922. Serial No. 530,379. 3 Claims. (Cl. 179—182.)



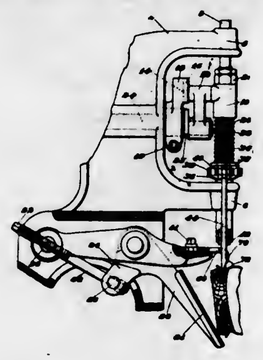
1. A device of the character described comprising a substantially semi-spherical soft rubber shell, said shell having a hollow portion in its side walls immediately adjacent the rim thereof and extending around the entire circumference of said shell, said shell having an opening therethrough centrally located in the bottom wall thereof, and means integral with said shell for removably securing said shell to a telephone receiver so that its concave surface faces outwardly and the opening therethrough is adjacent the diaphragm of said receiver.

1,426,341. PROCESS FOR RECOVERING TIN. HARRY H. ALEXANDER, Westfield, N. J., assignor to American Smelting & Refining Company, a Corporation of New Jersey. Filed May 26, 1917, Serial No. 171,390. Renewed Nov. 17, 1921. Serial No. 515,974. 6 Claims. (Cl. 75—17.)

1. In the art of extracting metallic tin from the concentrates, the process which consists in mixing the tin concentrates with carbonaceous material, sintering the mixture until approximately 70% of the sulphur originally contained in the mixture has been removed, breaking the resulting sintered mass into pieces sufficiently large to minimise the possibility of blowing off the tin concentrates when the same is fed to a blast furnace, mixing the sintered broken pieces with carbonaceous material, subjecting this mixture to a smelting operation of a blast furnace and separating the resulting products.

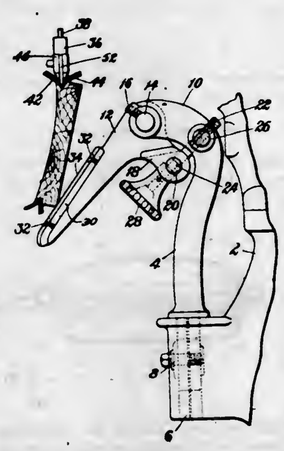
1,426,342. UPPER-SHAPING MACHINE. ARTHUR BATES, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 4, 1917, Serial No. 194,721. Renewed Dec. 21, 1920. Serial No. 432,304. 26 Claims. (Cl. 12—51.)

1. In a machine of the class described, in combination, a guide, a crease forming tool at one side of the guide and aligned therewith in the direction of feed of the



work, and means for operating the tool toward and from the work.

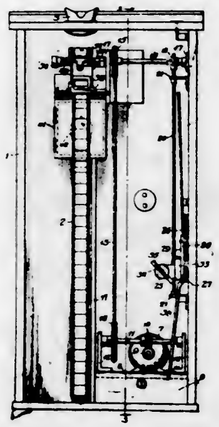
1,426,343. APPARATUS FOR ATTACHING UPPERS TO SOLES IN THE MANUFACTURE OF SHOES. ARTHUR BATES, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 25, 1917. Serial No. 198,406. 24 Claims. (Cl. 1—19.)



1. A machine of the class described comprising, in combination, mechanism for inserting fastenings through an upper into its sole constructed and arranged for engagement with the upper, a work supporting abutment spaced therefrom and constructed and positioned rela-

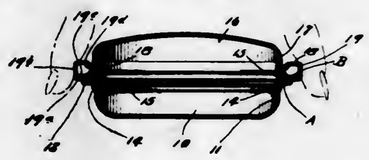
tively to the fastening inserting mechanism for engagement with the corner of the sole formed by the junction of the edge face of the sole and the tread face opposite to the point at which fastenings are being inserted and in substantially vertical alignment with the portion of the fastening inserting mechanism which engages the upper, said abutment being further constructed and arranged for fulcruming the sole for movement of the sole relatively to the upper at the point where the upper engages the fastening inserting mechanism.

1,426,344. MOVING-PICTURE-EXHIBITING MACHINE. GEORGE W. BENNETT, Oak Park, Ill., assignor to John F. Meyer, Chicago, Ill. Filed Jan. 2, 1920. Serial No. 348,875. 4 Claims. (Cl. 88—18.)



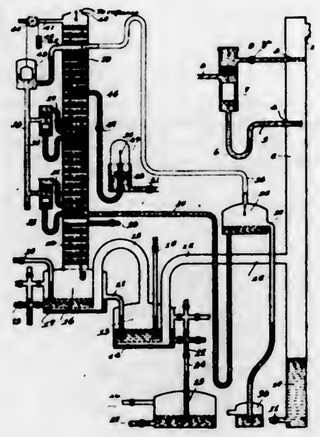
1. A moving picture exhibiting machine comprising a shaft and means for operating the same, a film actuating feed roll loosely mounted on the shaft, a ratchet device for temporarily locking the feed roll in stationary position, a cam rigid with the shaft for intermittently releasing the ratchet device, and a friction element between the said feed-roll and said cam, and a spring pressing against said feed-roll remote from the cam to produce frictional engagement between said friction element and the cam and feed-roll.

1,426,345. METALLIC CONTAINER. SAMUEL BERLOTTI, St. Louis, Mo. Filed Nov. 8, 1920. Serial No. 422,487. 4 Claims. (Cl. 220—43.)



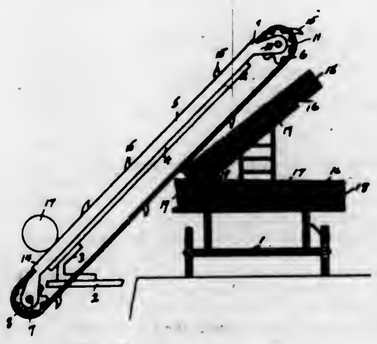
1. A metallic container having an outwardly projecting annular flange and annular reinforcing beads pressed outwardly above and below said flange at the points of junction of said flange with the wall of the container, and a cover therefor provided with an annular groove adapted to engage the upper one of said beads and having oppositely disposed lugs formed integral with said cover and adapted to overhang the flange of said container.

1,426,346. METHOD AND APPARATUS FOR OBTAINING WOOD PRODUCTS. EDMOND BERTHELON, Aix-les-Thermes, France. Filed Dec. 31, 1919. Serial No. 348,711. 5 Claims. (Cl. 203—6.)



1. The method of recovering by-products from the gas arising from the destructive distillation of combustible material, consisting in discharging such gases at high temperature into a receiver from which air is extracted, cooling such gases in said receiver by injecting water therein to cause the condensable products to collect in the bottom of said receiver; passing such gases into another receiver containing substances capable of saturating the acids contained in such gases to form therewith soluble salts; passing such gas upwardly through a column, and washing such gases with water during such passage.

1,426,347. LOADER FOR CORN BINDERS. NATHAN BIEBER, Poland, Ohio. Filed Dec. 5, 1921. Serial No. 520,127. 1 Claim. (Cl. 198—178.)



In a device of the class described, a platform, said platform being rectangular in form with the exception of having the rear outer corner of the same cut away, thereby forming an angle approximately 45 degrees from the front edge of said platform, a chain race secured to said platform in an adjustable manner near the front edge of said platform, a drive shaft provided with a slidably mounted sprocket carrying a chain, a chain passing over said sprocket and functioning in said chain race, a sprocket secured to the outer end of said chain race for the purpose of carrying said chain, a plurality of prongs formed on said chain, means for supporting said device in conjunction with a corn binder, substantially as described for the purpose set forth.

1,426,348. METHYL SULPHITES OF SECONDARY AROMATIC ALIPHATIC AMINES AND PROCESS OF MAKING SAME. MAX BOCKMÜHL and KURT WINDISCH, Hochst-on-the-Main, Germany, assignors to Farbwerke vorm. Meister Lucius & Brüning, Hochst-on-the-Main, Germany, a Corporation of Germany. Filed July 16, 1921. Serial No. 485,403. 2 Claims. (Cl. 260—130.)

1. As a new process, the manufacture of compounds of the general formula:

$$\begin{matrix} R \\ R_1 \end{matrix}\!\!>\!N\!-\!CH_2OSO_2Me$$

wherein R stands for a substituted aromatic residue, R_1 for an aliphatic residue, and Me for any alkali metal including ammonium, by condensing with formaldehyde bisulphites secondary aromatic aliphatic amines of the general formula:

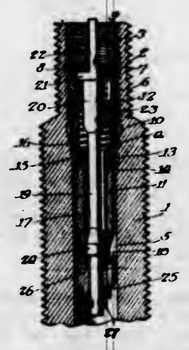
$$\begin{matrix} R \\ R_1 \end{matrix}\!\!>\!N\!-\!H$$

wherein R stands for a substituted aromatic residue and R_1 for an aliphatic residue.

1,426,349. PROCESS OF TREATING BY-PRODUCT ZINC OXIDE. JAMES ELIOT BOOGE, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 21, 1920. Serial No. 418,391. 5 Claims. (Cl. 23—13.)

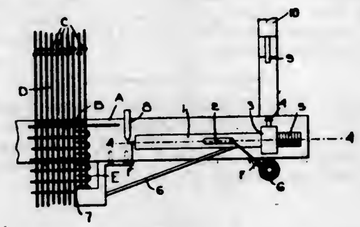
1. The process which comprises calcining by-product zinc oxide, thereby forming a product containing water-soluble compounds, and washing the calcined product with water to remove said soluble salts.

1,426,350. VALVE FOR PNEUMATIC TIRES. ADELBERT E. BRONSON, Cleveland, Ohio. Filed June 20, 1918. Serial No. 241,011. 2 Claims. (Cl. 152—12.)



1. In a valve construction for pneumatic tires, the combination of a valve stem having an internally screw-threaded nipple and a shoulder below the nipple, a barrel having screw threaded engagement with the nipple, the interior of the barrel being provided with a shoulder, a tube, the upper end of which is received in the barrel against the shoulder, a groove in the exterior of the tube at the lower edge of the barrel, the edge of the barrel being bent within the groove and co-operating with an end wall of the groove, a gasket bearing against the shoulder on the valve stem, and valve mechanism located within the barrel and the tube and adapted to close the lower end of the tube.

1,426,351. LOOM. JOHN C. BROOKS, Paterson, N. J. Filed Oct. 4, 1919. Serial No. 328,364. 5 Claims. (Cl. 139—18.)



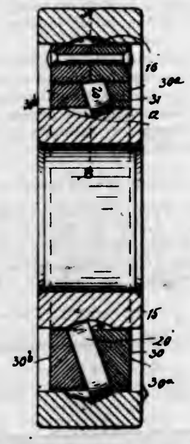
1. In a loom, the combination with means to place separate picks of weft thread into the shed with the end of each pick projecting beyond the edge of the web or warp threads, of means, including pneumatic devices, to bend each projecting end of weft thread backwardly and insert it into the shed.

1,426,352. MUFFLER. ALANSON P. BRUSH, Detroit, Mich. Filed June 27, 1917. Serial No. 177,194. 5 Claims. (Cl. 137—160.)



1. A muffler, comprising a chamber having an unobstructed passageway therethrough and having alternately arranged portions of gradually increasing and gradually decreasing cross sectional areas but of substantially the same cross sectional shape.

1,426,353. ANTIFRICTION BEARING. ALANSON P. BRUSH, Detroit, Mich. Filed Aug. 21, 1920. Serial No. 405,105. 5 Claims. (Cl. 64—62.)



1. An anti-friction ring bearing comprising, in combination, an outer bearing ring, and an inner bearing ring arranged coaxially within the outer bearing ring, which bearing rings have in their opposed cylindrical surfaces

continuous raceway grooves, a row of anti-friction rollers which extend across the annular space between the rings and have peripheral engagement with the raceways of both rings, said rollers being alternately inclined in opposite directions with respect to a plane normal to the axis of said rings, and means to maintain said rollers in spaced relation and in the inclined positions specified comprising a cage ring between said bearing rings and composed of two annular members provided on their adjacent faces with recesses in which the rollers are confined and loosely fitted, the recesses for successive rollers being oppositely inclined.

1,426,354. HEEL-BREASTING MACHINE. DARIUS W. BUNKER, Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 26, 1918. Serial No. 268,289. 20 Claims. (Cl. 12—47.)



1. In a machine of the class described, the combination of a rotary cutter, a shoe rest against which a shoe is held by the hand of the operator, means for relatively moving the cutter and the rest to cause operation of the cutter upon the breast of the heel of the shoe, and means arranged above the shoe between the operator's hand and the cutter and held from vertical movement relatively to the shoe and rest to prevent movement of the hand of the operator toward the cutter in case the shoe should be drawn toward the cutter.

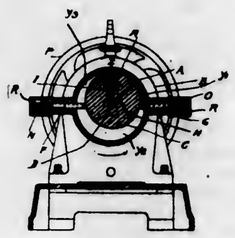
6. In a machine of the class described, the combination of a rotary cutter, a rest for the tread face of the heel, means for relatively moving the cutter and rest to cause operation of the cutter upon the breast of the heel of a shoe, and means operated by said moving means for holding the shoe upon the rest.

1,426,355. MEANS FOR SECURING CASKETS IN SHIPPING BOXES. JACOB R. BURKHARDT, Springfield, Ohio, assignor to The Springfield Metallic Casket Company, Springfield, Ohio, a Corporation of Ohio. Filed Nov. 21, 1921. Serial No. 516,616. 8 Claims. (Cl. 217—52.)



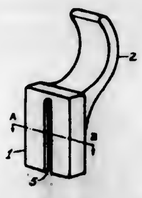
1. In a structure of the character described, the combination, with a shipping box, of a structure capable of being received therein and having a bottom formed with a recess, a plate secured in said recess, said plate having a threaded opening to receive a bolt extended through the bottom of said box.

1,426,356. PNEUMATIC ROTARY PUMP FOR RAREFYING AND COMPRESSING FLUIDS. ALFONSO CACCIARI, Milan, Italy. Filed Nov. 14, 1910. Serial No. 337,956. 3 Claims. (Cl. 230—30.)



1. A rotary pump for gases comprising a frame; a cylinder secured to said frame; a rotary piston eccentrically mounted in said cylinder and provided with a valve adapted to prevent back flow of compressed fluid; a vane mounted to slide in a socket provided in said frame and adapted to engage the surface of the piston; a tank containing a supply of oil and provided with a pipe which communicates with said frame and a port in the piston communicating with said tank.

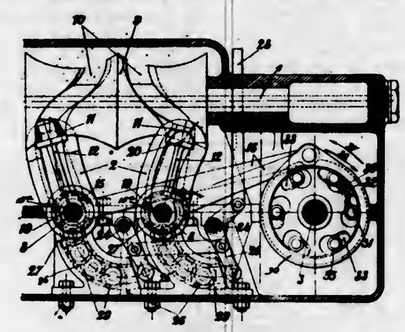
1,426,357. GRIP HANDLE. JOHN MAX CHAMBERS, Baltimore, Md., assignor to Oliver P. Le Compte, Towson, Md. Filed Aug. 5, 1921, Serial No. 490,076. Renewed July 7, 1922. Serial No. 573,456. 1 Claim. (Cl. 16—110.)



A grip-handle comprising a body having a socket with the internal face of the side walls converging towards a channel through front wall of body, all for purposes as described and a finger-grip, integral with aforesaid body, having a depression constructed as shown in the accompanying drawing.
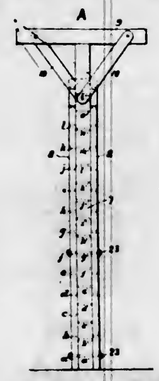
1,426,358. VARIABLE-SPEED TRANSMISSION DEVICE. ANTOINE CHAPUY and LEON FRANCOIS MEUNIER, St. Etienne, France. Filed Dec. 12, 1918. Serial No. 266,405. 1 Claim. (Cl. 74—53.)

A power transmitting mechanism comprising in combination a driving shaft, an oscillating slotted link pivoted at a fixed point, means for operatively connecting the driving shaft to the slotted link, a driven shaft, an intermediate rotary member keyed on said driven shaft, an intermediate oscillating member arranged coaxially on said rotary intermediate member, clutch members for operatively connecting the intermediate members to each other, a connecting rod pivotally connected at one end to the oscillating intermediate member, the opposite end of said connecting rod being pivoted in the slotted link, a guide, a chain movable in said guide and having one end



connected to said opposite end of the connecting rod and means for operating said chain.

1,426,359. ADJUSTABLE SHORE. WILLIAM LEE CHURCH, Newton Center, Mass., assignor to Uni-Form Company, a Corporation of Massachusetts. Filed Aug. 5, 1919. Serial No. 315,446. 8 Claims. (Cl. 248—2.)

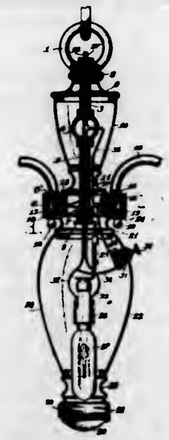


4. A shore of the character described comprising in combination a supporting member, a detachable head, inter-engaging means on said support and head for relatively positioning said members, said means comprising a pair of spaced angles secured to the lower face of the head and a pair of plates secured to opposite faces of the supporting member and projecting thereabove, and means detachably securing the head to the support.

6. An adjustable shore of the character described comprising in combination one member provided with a plurality of holes equally spaced and a second member also provided with a plurality of holes equally spaced but the distance between holes being of a different dimension than on the first member, said members being relatively movable and the relation between the two sets of holes being in effect that of the markings on a vernier scale, and said members being of sufficient length to bring at least two pairs of holes in alignment in all positions of normal working adjustment between the members, and a supporting member adapted to be passed through the aligned holes.

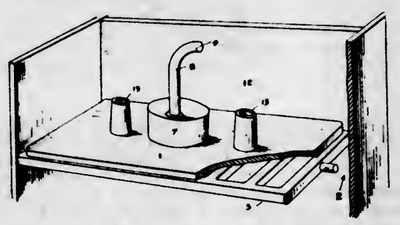
1,426,360. ELECTRIC-LIGHTING FIXTURE. LE ROY G. CLARK, Detroit, Mich. Filed Dec. 27, 1920. Serial No. 433,444. 3 Claims. (Cl. 240—78.)

1. An electric fixture comprising a support, a plurality of radially disposed ribs formed in the support, a plurality of blocks adapted to engage with the ribs, each block acting as a support for a lamp bracket, a casing arranged beneath the support and having a flange, and securing



means for each block having a screwthreaded portion passing through an opening in the flange and an opening in the support and engaging a screwthreaded aperture in the block.

1,426,361. OIL BURNER. LEONARD CONOW, Corte Madera, Calif., assignor to John J. Mazza, San Francisco, Calif. Filed Nov. 26, 1920. Serial No. 426,372. 1 Claim. (Cl. 158—66.)

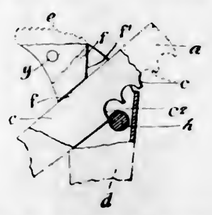


An oil burner of the character described embodying in its construction a large flat base adapted to rest upon the grating in the fire box of a cook stove and having an opening therein provided for connection thereof with a fuel feed supply pipe, said plate having air intake openings on the opposite sides of the first-named openings, tubular air intake members carried by the plate and extending upwardly from said air intake opening, a generating chamber supported by the plate and in communication with the first-named opening therein and a burner pipe extending upwardly from the top and near one side of said chamber and being curved outwardly and downwardly and terminating in a closed end spaced well above and over said generating chamber, said pipe being closed at its upper end and provided with an outlet orifice located immediately above and over said chamber, at a point spaced from said closed end, said orifice being located at the highest point in the curved portion of the pipe to prevent particles of foreign matter from clogging the orifice.

1,426,362. PIPE WRENCH. JOHN WILLIAM DONALD COOK, London, England. Filed Feb. 12, 1920. Serial No. 358,180. 2 Claims. (Cl. 81—79.)

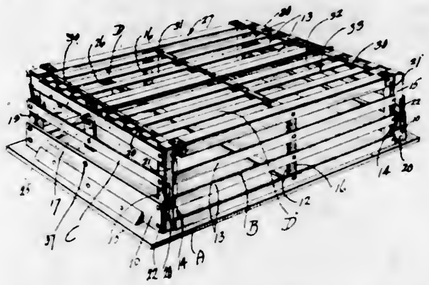
1. A wrench of the character described, comprising an inner member, an outer member, a pivot pin mounted in

said outer member, a square jaw upon said inner member, an arcuate jaw upon said outer member, a shank to said inner member, said shank adapted to slide freely through said outer member in one position, and said shank having a series of notches adapted to engage said



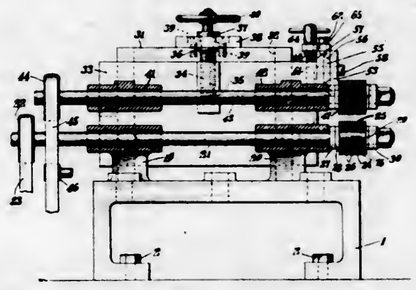
pivot pin as said jaws are closed from said position, and a shoulder upon said shank, said shoulder being formed upon the rear edge below said series of notches and projecting beyond the outermost portions of said notches, to engage said pivot pin for preventing complete withdrawal of said inner member from said outer member.

1,426,363. FOLDING CRATE. ROBERT F. DOLL, Chicago, and JOHN C. THIES, Barrington, Ill. Filed July 2, 1920. Serial No. 393,648. 4 Claims. (Cl. 217—47.)



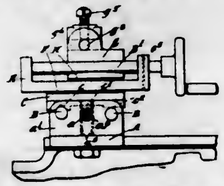
1. In a folding crate, the combination of a platform structure, foldable sides, ends, and a pair of top sections for said foldable crate, a rod for locking the sides, ends and one of the top sections in an upright position, and a second locking means for the other of the top sections, whereby the latter can be separately used to secure ingress into the crate.

1,426,364. GRAILING MACHINE. ALFRED S. DONALDSON, Newark, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 19, 1918. Serial No. 258,874. 8 Claims. (Cl. 144—26.)



1. In a grailing machine, in combination, a rotary disc cutter for grailing one side of a comb, a second cutter for grailing the other side of a comb, the two being arranged to receive the comb between them as fed from one side of the cutters, a comb stop comprising a tooth base and a substantially straight stop tooth therewith and located in the plane of the comb-receiving space between the cutters, and overhanging said base in a direction opposite to the direction of feed of the comb to the cutters for a distance at least as great as the length of the comb tooth to be grailed and of a width to pass between the comb teeth.

1,426,365. SLIDE REST OF LATHES. ARTHUR DRUMMOND, Ryde's Hill, near Guildford, England. Filed July 27, 1921. Serial No. 487,982. 7 Claims. (Cl. 82—24.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a lathe, a slide having underneath at one side a single groove and at the other side a flat bearing surface, a carrying member, and a pair of round guide rods fitted to the said carrying member, one of said rods adapted to enter loosely the said groove of the sliding member, and the other rod adapted to support the said flat bearing surface.

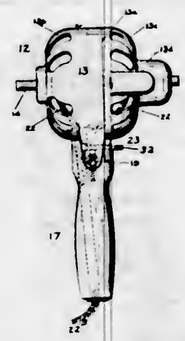
1,426,366. REENFORCEMENT FOR PICK HANDLES. GEORGE GRANTFORD DUPLER, Monday, Ohio. Filed Jan. 6, 1922. Serial No. 527,476. 11 Claims. (Cl. 145—61.)



1. In combination, a handle, a reenforcement therefor comprising a continuous strand of wire extending through an opening in the handle so that equal portions of the strand of wire extend from each side of the handle and said portions wound about the handle contiguously and in the same direction and the ends thereof extended through another opening adjacent where they terminate in the opposite directions and said ends each secured to the convolution of wire in which it terminates.

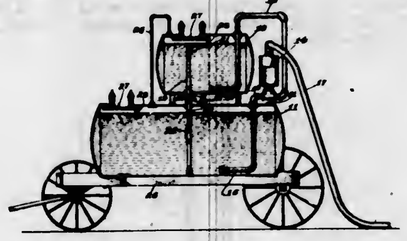
1,426,367. PORTABLE ELECTRIC MOTOR. OSCAR P. EBHARDT, West Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Feb. 26, 1918. Serial No. 219,258. 11 Claims. (Cl. 172—36.)

1. In an electric motor, a motor member having a casing with spaced lugs formed thereupon and extending therefrom in substantial parallelism, a handle member interposed between said lugs and secured to the same, said



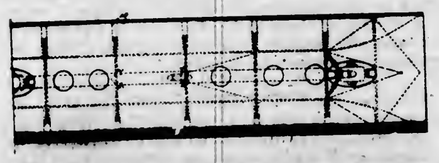
handle member having an end face spaced from said casing by said lugs, and an electric switch mounted upon said end face.

1,426,368. FIRE-EXTINGUISHING APPARATUS. ORLANDO R. EDWIN and CURTIS B. FLORY, New York, N. Y., assignors to Foamite Firefoam Company, New York, N. Y., a Corporation of Delaware. Filed June 3, 1920. Serial No. 386,200. 19 Claims. (Cl. 169—14.)



1. Fire extinguishing apparatus, including a plurality of containers adapted for the separate storage of solutions which when mixed produce fire extinguishing foam, a separate delivery outlet for each container adapted to be connected to a mixing station, and means for applying delivery pressure to the contents of each container including means for intermingling in one of the containers portions of the different solutions.

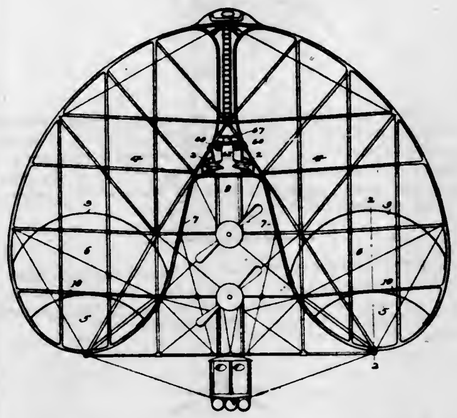
1,426,369. FLYING MACHINE. THOMAS M. FINLEY, St. Louis, Mo. Filed July 20, 1918. Serial No. 245,885. 75 Claims. (Cl. 244—3.)



1. A flying machine of the class described including a body provided at opposite sides with depending wings forming a longitudinal passage or channel open at the bottom, said passage or channel being interiorly tapered at its front end and the taper being extended to substantially

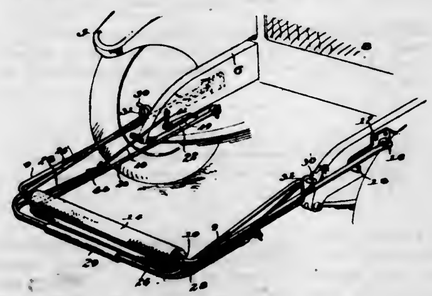
the top and sides of the body at the front end of the same for causing the air displaced by the body to be pressed rearwardly beneath the front end of the body into the channel or passage, gas bags located within the wings, and a frame disposed between the gas bags and having ribs or members extending beneath the said bags.

1,426,370. GAS CONTROL FOR FLYING MACHINES. THOMAS M. FINLEY, St. Louis, Mo. Filed Aug. 26, 1918. Serial No. 251,586. 53 Claims. (Cl. 244—3.)



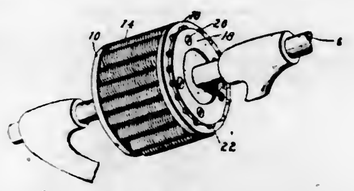
1. A gas control of the class described including a gas bag or container, a compression chamber, means for removing the gas from the gas bag or container and compressing the same within the said chamber and for returning the gas to the gas bag or container, and means for automatically controlling the gas for maintaining the flying machine at a predetermined altitude.

1,426,371. AUTOMOBILE FENDER. SAMUEL G. FITE SIMONS, Charleston, S. C. Filed Mar. 9, 1922. Serial No. 542,396. 11 Claims. (Cl. 293—46.)



3. A fender for motor vehicles comprising a pair of curtain supporting arms having means whereby the same may be pivotally connected to a motor vehicle, a roller connected to said arms, a curtain connected to said roller, a U-shaped curtain attaching arms connected to said curtain and having means whereby the same may be movably and pivotally connected to a motor vehicle, and a bumper member normally arranged in advance of said first and second named arms and connected to the same whereby to move the arms in opposite directions when the bumper member encounters an obstacle.

1,426,372. SHOE-BEATING MACHINE. CYRUS D. FOYE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 15, 1919. Serial No. 323,892. 9 Claims. (Cl. 12—51.)



1. In a machine of the class described, a rotary beater comprising an annular series of rods supported at their ends by a carrier and beating members loosely mounted on said rods, the co-operating supporting surfaces of the rods and the carrier being shaped to prevent relative rotation of the rods and the carrier.

1,426,373. SHIELD. ERNEST O. FREDERICS, New York, N. Y., assignor to E. Frederics, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 2, 1921. Serial No. 489,209. 1 Claim. (Cl. 132—36.)



A protective shield comprising an annular piece of fibrous material having a plurality of independent members spaced apart and projecting radially from the inner margin thereof, the ends of said members being formed so as to bound a substantially circular aperture, said members being flexible so as to permit of a flexure out of the plane of said shield whereby to permit the introduction through said aperture of a strand of hair of greater diameter than said aperture, and said ends being adapted to bear firmly against said strand when said members are in flexed position, whereby to hold said shield against movement relative to said strand.

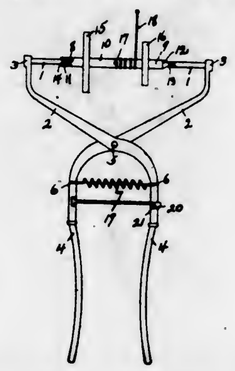
1,426,374. PANEL. LESLIE H. GARLINGHOUSE, Aspinwall, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed Oct. 13, 1919. Serial No. 330,345. 1 Claim. (Cl. 25—131.)



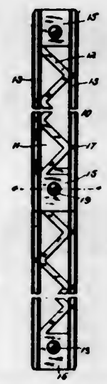
A panel for concrete work comprising in combination a sheet metal plate having opposite edge portions thereof bent into channel-like form at least one of the web portions of the bent over edges having a longitudinally extending bead or rib member, and a plurality of reinforcing members extending transversely of the panel, said reinforcing members having a fillet fitting into said bead.

1,426,375. TOY. PASQUALE GENTILE and ANGELO DEL GINDICE, Youngstown, Ohio. Filed Mar. 21, 1921. Serial No. 453,995. 1 Claim. (Cl. 46—32.)

In a device of the class described, two jaw members, said jaw members secured at right angles to two arm members for the purpose of supporting a shaft, two arm members pivotally secured, two handle members being a continuation of said arm members, one of said jaw members having a cone shaped gripping point, the other jaw member having an inverted cone shaped gripping part, a spring secured between said handles below a pivot member, a revolving shaft provided at one end with a cone and at the other end with an inverted cone, a plurality of discs secured to said shaft, means for attaching a cord to said shaft, substantially as described for the purpose set forth.



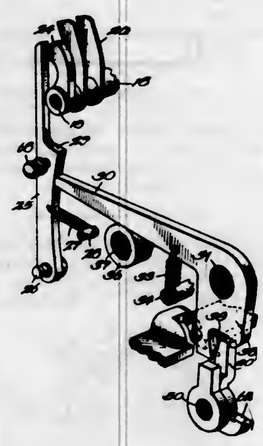
1,426,376. TOY BUILDING CONSTRUCTION. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 30, 1915. Serial No. 24,074. Renewed Feb. 8, 1922. Serial No. 535,093. 9 Claims. (Cl. 189—34.)



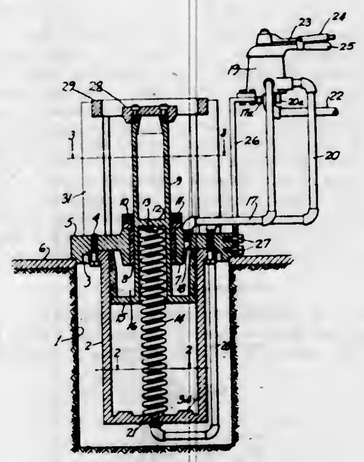
1. In toy building construction, two miniature box girder or column sections, each formed of a plurality of strips of light flexible sheet metal assembled separably into a box-like structure, the ends of the strips of one section overlapping those of the other section, and means for fastening the sections detachably together where they overlap; substantially as described.

1,426,377. TOTALIZER CLEAR SIGNAL. HYMAN GOLBER, Chicago, and ARTHUR F. POOLE, Kenilworth, Ill., assignors, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 10, 1919. Serial No. 276,172. 11 Claims. (Cl. 235—59.)

3. In a calculating machine, the combination of a key adapted to print a characteristic mark, means to compel a complete stroke of said key when once a stroke has been initiated, a totalizer, and means connecting said key and said totalizer to prevent a complete stroke of said key in the event that said totalizer does not stand at zero.

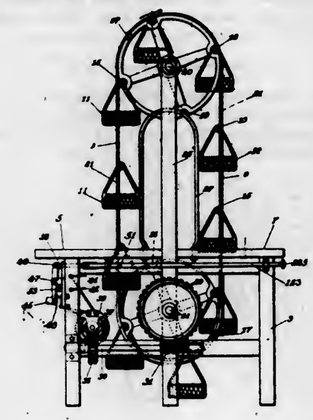


1,426,378. COMPRESSED-AIR DRAW MOLDING MACHINE. GUSTAF F. GUSTAFSON, Chicago, Ill. Filed Aug. 8, 1921. Serial No. 490,761. 2 Claims. (Cl. 22—47.)



1. In a compressed air draw molding machine, a piston chamber adapted for disposal in a foundry pit, a table supporting said piston chamber and adapted to rest upon the mouth of the pit, a piston operatively associated with said piston chamber and working through said table, a partition within said piston, a spring connecting said partition and the base of the piston chamber, a draw table carried by said piston, flask supports carried by the first named table, and means for alternately applying compressed air to opposite sides of the head of said piston whereby reciprocation of the same is effected.

1,426,379. DRYING APPARATUS. JOHN B. HADAWAY, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 11, 1918. Serial No. 266,276. 12 Claims. (Cl. 198—20.)



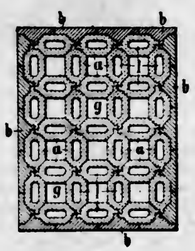
1. The combination with a conveyor, of a source of power, means for connecting the conveyor with the source of power, and means engaging the conveyor to maintain the connection for a predetermined interval.

12. The combination with a bench adapted for the performance of two operations in spaced localities, of a conveyer having opposite runs located to pass near the localities and extending through the top of the bench, said conveyor comprising an endless carrier and spaced receptacles carried thereby, means for driving the conveyor, and means for automatically stopping it, said last-named means being constructed and arranged to cause the conveyor to come to rest with one of the receptacles near one locality and another near the other locality.

1,426,380. MANUFACTURE OF AROMATIC ALKYLAMINO COMPOUNDS. WALTER NORMAN HAWORTH, Fifeshire, Scotland, and FREDERICK WILLIAM ATACK, Manchester, England. Filed Jan. 19, 1920. Serial No. 352,538. 8 Claims. (Cl. 260—60.)

7. The process of alkylating amino-anthroquinone which consists in heating it with an alkyl sulphate in presence of nitrobenzene and a mild alkaline reagent at temperatures above 120° C.

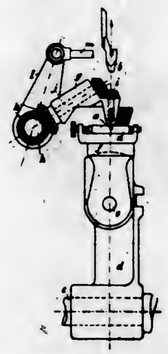
1,426,381. RECUPERATOR. HEINRICH HECKER, Hagen, Germany. Filed Apr. 12, 1920. Serial No. 373,463. 3 Claims. (Cl. 72—15.5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A recuperator with air ducts, running parallel to the gas ducts, built up of bricks with a flattened rectangular

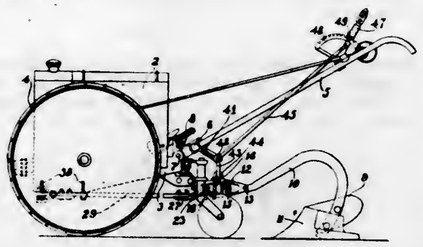
channel, said bricks having a cross section of hexagonal shape with two opposite and parallel longer sides and four equal shorter sides, the said bricks forming with their longer sides the gas ducts, each of which being surrounded on all four sides by the channels in said bricks, which form with their shorter sides of the hexagonal cross section pointed ends, that four of such bricks may be placed together to form the brick work structure.

1,426,382. BORING AND STUFFING MACHINE FOR BROOM AND BRUSH HEADS. GEORG HENNING, Bergedorf, near Hamburg, Germany. Filed Sept. 28, 1920. Serial No. 413,380. 2 Claims. (Cl. 300—3.)



1. In a brush boring and bristle setting machine, the combination with a machine frame of a support for the brush back; a boring tool and a stuffing tool; a swinging carrier arm for one of the tools pivoted to the machine frame in the plane of the brush back, said tool adapted to engage the brush back at right angles to its surface when in working position; and said second tool adapted to reciprocate relatively to the brush back support in a line tangential to the arc described by the first-named tool at the point where said first-named tool is adapted to engage the brush back.

1,426,383. PLOWHITCH. GEORGE ORVIL HODGE, Bristol, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 19, 1920. Serial No. 418,068. 1 Claim. (Cl. 97—30.)



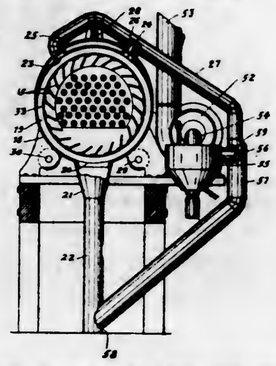
The combination of a power-operated frame having rearwardly-extending controlling handles connected therewith said frame also having a wheeled axle and also having an angular bracket connected therewith at one side thereof forward of the axle, a farming implement located below the handles, at the rear of the frame, an operative connection between the forward end of the farming implement and the bracket, and means whereby the farming implement can be moved through the action of the controlling handles.

1,426,384. METHOD OF AND MEANS FOR DETECTING DEFECTS IN PARAMAGNETIC MATERIAL. WILLIAM E. HOKE, Washington, D. C. Filed June 23, 1919. Serial No. 305,955. 6 Claims. (Cl. 175—183.)



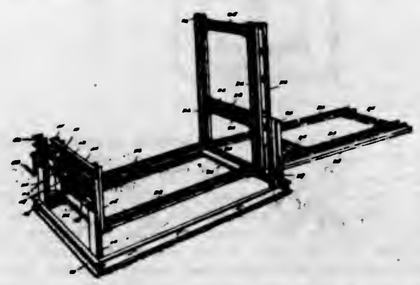
1. The method of testing an object of paramagnetic material, which consists in subjecting the object to the action of a magnetic field while in proximity to mobile finely divided paramagnetic material.

1,426,385. APPARATUS FOR DRYING AND STERILIZING CEREALS. ANTON HUHN, Minneapolis, Minn. Filed Aug. 13, 1917, Serial No. 185,828. Renewed Jan. 14, 1922. Serial No. 529,371. 9 Claims. (Cl. 34—6.)



1. Apparatus for drying and sterilizing cereals comprising a casing, means for feeding the cereals into the casing, means for progressively moving the particles of the cereals in a state of separation about and through said casing to the discharge end thereof, means for heating the cereal as it is moved, means for subjecting the cereal so moved to regulated currents of air during the entire period of moving and heating, means for acting upon the air of said currents immediately after it leaves the casing to cause the dust and solid ingredients carried in the air to be separated therefrom, and means for lowering the temperature of said dust separating means to cause a precipitation of a portion of the moisture content of the air.

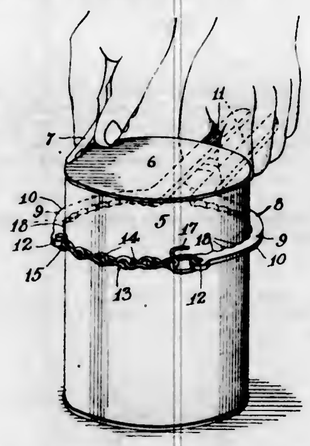
1,426,386. AUTOMOBILE REPAIR DERRICK. JOHN IMBLER and SAMUEL IMBLER, Carmel, Ind. Filed Oct. 18, 1920. Serial No. 417,808. 5 Claims. (Cl. 214—1.)



1. The combination with a suitable support, of a swinging cradle for vehicles, comprising a runway, a pair of

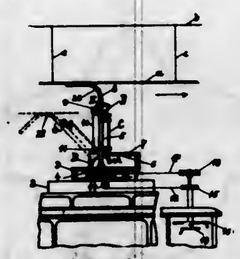
depending trunnion supported members by which the runway is supported on said support, one of said depending members being hinged to the runway upon an axis substantially at right angles to the trunnions, and means connected to the trunnion of the non-hinged depending support for swinging the cradle upon its trunnions.

1,426,387. PRESERVE-CAN HOLDER. CHARLES A. IVES, Brooklyn, N. Y. Filed Dec. 19, 1921. Serial No. 523,385. 3 Claims. (Cl. 81—32.)



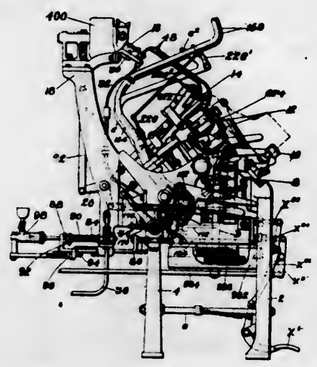
1. A can holding device of the class described comprising two similar sheet metal jaw members, said jaw members comprising semi-circular portions provided at one end with handle members projecting at an angle thereto and the other ends of said semi-circular portions being provided with apertures, a chain the ends of which are passed through the apertures of said jaw members for securing said jaw members together, and a hook-shaped device at one end of the chain and adapted to be detachably connected with the separate links of the chain for adjusting the relative position of said jaw members.

1,426,388. CURRENT-COLLECTOR CONTRIVANCE. KARL JACQUET, Zurich, Switzerland. Filed May 2, 1921. Serial No. 466,374. 5 Claims. (Cl. 191—55.)



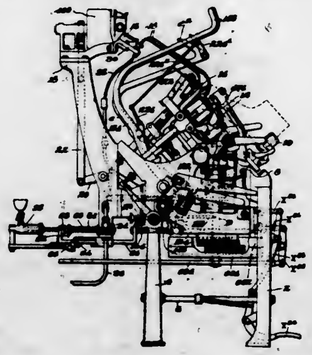
1. In a current collector for electrically operated railway cars, the combination with a yieldably supported upright frame, of a contact member carried by and pivoted at one end thereof to said frame, operating means between the pivotal connection of the contact member and a fixed point in said collector to move the former relatively to said frame and against a pole line wire, and means for rotating said frame to reverse the position of said contact member with respect to the pole line wire.

1,426,389. FASTENER-INSERTING MACHINE. ARTHUR ERNEST JERRAM, JOSEPH GOULDBOURN, and FRED RICKS, Leicester, England, assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 28, 1916. Serial No. 122,631. 53 Claims. (Cl. 1—6.)



29. In a machine of the class described, the combination with means for supporting a fastener point downward and means for driving the fastener upward, of means for conducting said fastener from its supporting means to a point of delivery, said conducting means comprising a conduit extending upwardly over the fastener and curved to cause the fastener to arrive at its delivery point in an inverted position, and means for directing a blast of air upwardly beneath the fastener to force it through said conduit.

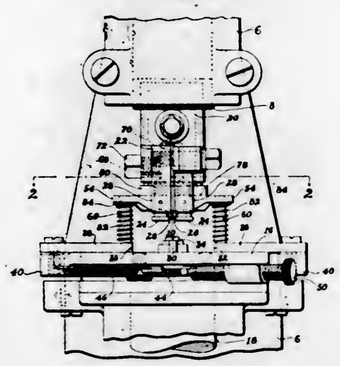
1,426,390. PULLING OVER MACHINE. ARTHUR ERNEST JERRAM, JOSEPH GOULDBOURN, and FRED RICKS, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Sept. 28, 1916, Serial No. 122,631. Divided and this application filed Mar. 15, 1920, Serial No. 366,030. Renewed Feb. 16, 1922. Serial No. 537,134. 22 Claims. (Cl. 12—4.)



1. In a machine of the class described, the combination with means for pulling an upper over a last positioned bottom downward, of upwardly movable drivers for inserting fasteners on the bottom of the last to retain the upper in its pulled-over position, a source of supply for fasteners comprising means for suspending the fasteners point downward, and means for transferring the fasteners into position to be inserted by said drivers comprising pneu-

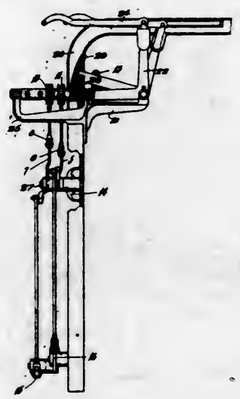
matic means dependent for its operation upon a movement of the upper pulling means for inverting the fasteners to present them with their points directed upward.

1,426,391. SOLE-FITTING MACHINE. ALBERT E. JOHNSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 24, 1920. Serial No. 398,632. 12 Claims. (Cl. 12—40.)



1. A sole fitting machine having, in combination, a work-supporting table, a plurality of slashing knives spaced apart above the table for making a plurality of incisions in the unattached sole, wholly automatic means for varying the spacing of said knives in accordance with the size or style of the sole to be operated upon, and means for reciprocating said knives toward and from the table.

1,426,392. SHUTTLE-BOX-OPERATING MECHANISM. EDWARD W. KEOUGH, Middleboro, Mass. Filed Apr. 17, 1922. Serial No. 554,260. 2 Claims. (Cl. 139—28.)



1. In a loom, the combination with a vibratory gear mechanism of the loom, of shafts extending laterally therefrom, rollers secured on said shafts, chains on said rollers, a connection between said chains and the shuttle box operating mechanism of the loom, whereby on rotation of the roller movement will be imparted to the shuttle box operating mechanism.

1,426,393. V-BEARING FOR WEIGHING SCALES. BERT W. KING, Detroit, Mich., assignor to Barnes Scale Company, Detroit, Mich., a Corporation of Michigan. Filed May 18, 1921. Serial No. 470,621. 5 Claims. (Cl. 74—104.)



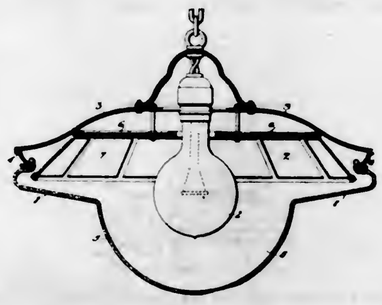
3. In a bearing for the purpose specified, the combination of a double knife edge with aligned downwardly and upwardly-pointed knife edges so that the two knife edges have a common axis of rotation, a fixed member on the scale engaging against the upwardly-pointing knife edge to lock the downwardly-directed knife edge in its bearing, a V groove block acting as the bearing for the downwardly-directed knife edge, and means for supporting said V groove block to float.

1,426,394. BOX CLAMP. MICHAEL KUNKEL, Grand Rapids, Mich. Filed Apr. 1, 1921. Serial No. 457,579. 5 Claims. (Cl. 229—47.)



1. In an implement for securing a match box cover upon the match container, two parallel arms bent oppositely at right angles at each end and then bent to form a continuous rectangular loop at each end of the implement of a proper size to exactly fit around the box and cover.

1,426,395. DAYLIGHT LAMP. NIELS LANG, Vancouver, British Columbia, Canada. Filed Apr. 21, 1921. Serial No. 463,131. 2 Claims. (Cl. 240—1.)



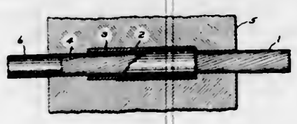
1. An electric lighting fixture, the combination with an incandescent lamp, a supporting canopy, a bowl of translucent obscured glass removably connected thereto, a circular reflector supported within the canopy and above the lamp, said reflector being of silvered glass, which is color tinted to modify the character of the light passing through it to and from the reflecting surface.

1,426,396. MILK-BOTTLE COVER AND CAP REMOVER. FRANCIS J. LAPOINTE, Ann Arbor, Mich. Filed Mar. 28, 1921. Serial No. 456,462. 4 Claims. (Cl. 215—55.)



1. In a device of the character described, a cover; cap-engaging prongs struck therefrom and disposed at an acute angle relatively to the under surface thereof; a plate normally covering the openings made in said cover by the formation of said prongs; and means at the outer edge of said cover whereby it may be rotated about its center.

1,426,397. METHOD OF MANUFACTURING RAIL BONDS. HARRY V. LINDERMAN, Mansfield, Ohio. Filed Apr. 19, 1921. Serial No. 462,755. 8 Claims. (Cl. 29—169.)



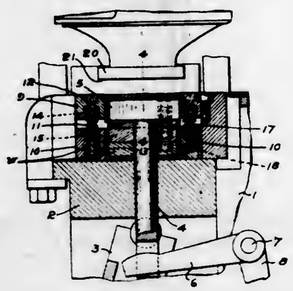
1. The method of forming an article of manufacture comprising the steps of inserting the end of a copper body composed of a plurality of units within a ferrous casing with an interposed layer of brazing metal and permitting the end of the copper body to project beyond the outer end of the ferrous casing, then gripping the parts in a die to hold the casing, body and brazing metal relative to each other, then compacting the body within the casing by crowding the projecting portion of the body into the casing thereby excluding the air from the interior of the casing and body, then heating the parts to a temperature at least equal to the melting point of the brazing metal and then subjecting the heated parts to pressure from without to compact, unite and shape the same.

1,426,398. LOCKING MECHANISM. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 27, 1918. Serial No. 236,815. 4 Claims. (Cl. 74—27.)



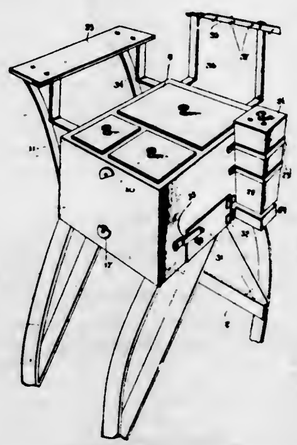
1. In a mechanism for transmitting power from one machine element to another, a member for locking the power transmitting mechanism against accidental engagement, and operating means for moving the member to and from locking position, said operating means being retained in operative position by engagement with said member.

1,426,399. COMPRESSING MACHINE. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 3, 1919. Serial No. 308,528. 10 Claims. (Cl. 12—48.)



1. In a machine of the class described, the combination of a reciprocable cross head, and a mold, the bottom and contour portions of the mold being carried upon the cross head and the contour portions of the mold being movable up and down relatively thereto.

1,426,400. WATCH AND JEWELRY CLEANER. BERT MCCARTY, Tampa, Fla. Filed Sept. 24, 1920. Serial No. 412,579. 3 Claims. (Cl. 141—1.)



1. An apparatus for use in cleaning jewelry comprising a casing having a horizontal partition defining upper and lower chambers, receptacles for cleaning mediums received in said upper chamber and having closures arranged above said casing, a heating member in said lower chamber, and a second partition engaging said first named partition and one side of said casing thereby defining an intermediate chamber beneath one of said receptacles, said first named partition having openings establishing communication between said lower and intermediate chambers.

1,426,401. REPLACEMENT VALVE. CHRISTIAN J. MÜLLER, Prince Bay, N. Y. Filed Apr. 6, 1921. Serial No. 459,189. 2 Claims. (Cl. 152—12.)

1. A valve of the kind described, comprising a screw-threaded stem flattened upon opposite sides, a thin flat

head semi-circular at one end and extending angularly outward to a rounded point at its other end, said semi-



circular portion being fixed to said stem, and means for securing said stem in operative position.

1,426,402. PNEUMATIC CAP. Claude Moore, Cedar Rapids, Iowa, assignor to F. L. Vernon, Newton, Iowa. Filed Oct. 10, 1919. Serial No. 329,746. Renewed Nov. 3, 1921. Serial No. 512,570. 4 Claims. (Cl. 9—20.)



1. A pneumatic cap of waterproof elastic material, comprising a skull-cap shaped to firmly hold it on the head of the wearer and an inflatable enclosing cover spaced therefrom.

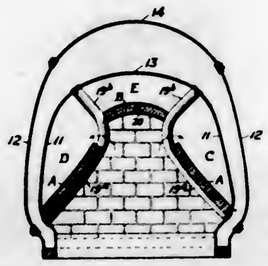
1,426,403. PISTON RING. Samuel Wilson Morrow and John Schlutter, Baltimore, Md., assignors to The Reus Bros. Co., Baltimore, Md., a Corporation of Maryland. Filed Nov. 9, 1921. Serial No. 513,966. 3 Claims. (Cl. 74—109.)



1. A multiple part piston ring including a drawn bronze outer member contacting with the wall of the cylinder and a side wall of the piston ring groove, and a separate resilient expander member cooperating therewith.

1,426,404. FIRE-BOX STRUCTURE. John P. Neff, East Orange, N. J., assignor to American Arch Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 17, 1919. Serial No. 283,034. 10 Claims. (Cl. 122—71.)

1. The combination in a locomotive fire box having side water legs and a cross wall in the forward part thereof, of a plurality of circulation tubes at each side of the box arranged in substantially vertical planes in the box and bent so as to connect the upper and lower ends of



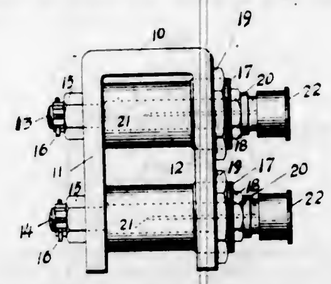
the same water leg, and side and top arch walls supported on the tubes and extending rearwardly of the cross wall.

1,426,405. CONVERTIBLE PORCH SWING AND COUCH. Charles A. Neiswender, Topeka, Kans. Filed Aug. 13, 1920. Serial No. 403,285. 2 Claims. (Cl. 155—58.)

1. In a convertible porch swing and couch, the combination of a seat including longitudinally extending side rails and transverse end rails, the terminals of the side rails being extended beyond the end rails, spaced longitudinally extending seat slats carried by the end rails and having their terminals extending beyond said end rails; and end sections including relatively short uprights arranged between the terminals of the side rails, said uprights being adapted to extend in the spaces between the terminals of the seat slats, when the end sections are in their upright positions, the uprights and end rails having aligned openings formed therein, and hinge rods extending through said aligned openings.

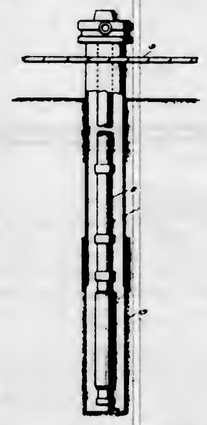
1,426,406. SPRING SHACKLE. Lucian Herbert Parcher, Gardner, Mass. Filed Feb. 24, 1920. Serial No. 360,944. 1 Claim. (Cl. 267—54.)

A spring shackle comprising side members rigidly spaced apart, a bushing threaded in one side member, means to lock said bushing in position, a spring support stud extending through said bushing and having a shoulder engaging the outer end thereof, said stud also fitting an opening in the opposite side member of



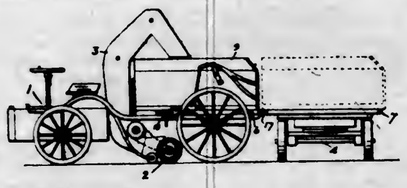
said shackle, and means to draw said shoulder against said bushing and to preserve the longitudinal adjustment of said stud.

1,426,407. OIL-WELL HEATER. Harry Pennington, Wichita Falls, Tex. Filed Oct. 29, 1920. Serial No. 420,498. 6 Claims. (Cl. 219—53.)



5. In an electric heater for oil wells, a casing arranged adjacent the bottom of the well, electrical heating means arranged therein, a pair of electrical conductors connected to said heater and adapted to transmit current thereto, a thermostat arranged in said casing, said thermostat being connected to one of said conductors and to a ground, a relay coil arranged in circuit with said thermostat, and a switch arranged in the other conductor and adapted to be opened when said relay is energized.

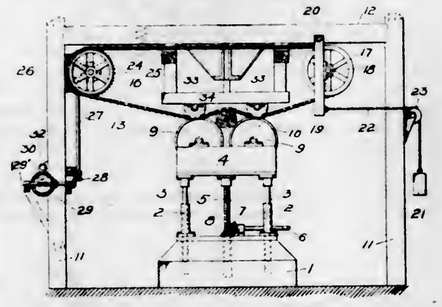
1,426,408. STREET-CLEANING EQUIPMENT. Henry Pezzetti, Philadelphia, Pa. Filed Mar. 17, 1920. Serial No. 366,631. 2 Claims. (Cl. 214—38.)



1. In street cleaning equipment the combination of the chassis of a self-loading sweeper, the chassis of a

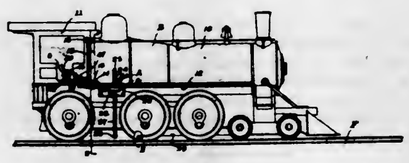
lorry, a plurality of carriages each provided with wheels and with a joint, provisions on each of the chassis for receiving and holding said carriages singly, a truck adapted to receive said carriages in multiple, means on each chassis for transferring said carriages to and from the truck, bodies carried by said carriages and attached to the carriages to one side of the joint, and devices on the lorry chassis for working the joint of a carriage to dump its body, substantially as described.

1,426,409. LOG-TURNING MECHANISM. Mybon R. Rawson, Spokane, Wash. Filed June 7, 1921. Serial No. 475,812. 4 Claims. (Cl. 144—242.)



1. The combination in a pole turning device with rotatable means for supporting a pole, of an endless chain and means carried thereon to engage and rotate the pole, a driving suspending wheel and a supporting pulley for the chain, means co-acting with the pole for flexing the working flight of the chain and means for compensating for the flexure in the chain.

1,426,410. AUTOMATIC RAILROAD SIGNAL AND STOP. George Ridley, Highland Park, Mich. Filed Aug. 8, 1921. Serial No. 490,654. 5 Claims. (Cl. 246—200.)

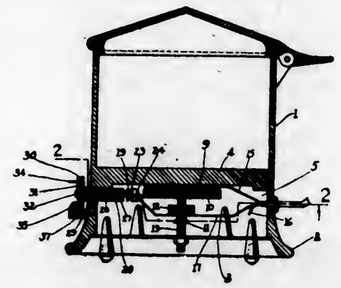


1. In a safety appliance for railroad trains, the combination with a locomotive including a cab and an air brake train line pipe, a release valve disposed in said pipe, a branch pipe, means for bringing the branch pipe into communication with the air train pipe upon operation of said valve, a signal whistle carried by the branch pipe and disposed in said cab, a pendant lever pivotally carried by the locomotive adapted to be operated by a track trip, a sliding operating rod carried by the locomotive and disposed in the path of said lever, a handle for said valve disposed in the path of said rod, and a second sliding rod arranged to engage the handle and to operate the same when moved in one direction, and a manually operated lever disposed in the cab for operating said second mentioned rod as and for the purpose specified.

1,426,411. ELECTRIC HEATING UNIT. Clarence B. Rogers, Seattle, Wash. Filed Aug. 16, 1920. Serial No. 403,795. 10 Claims. (Cl. 219—20.)

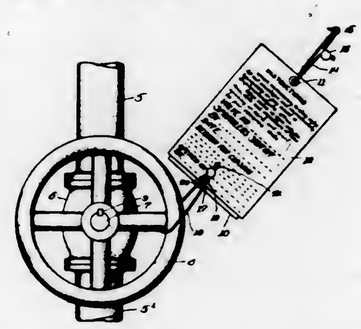
1. An electric heating unit including a heating coil, means tapped in the coil at an intermediate point there-

of automatically to control current flow through said coil whereby flow is directed through the whole coil or



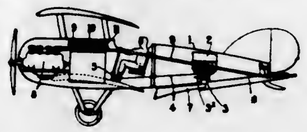
directed through only a portion thereof, and a signal means in circuit with the coil whereby flow is continuously signaled.

1,426,412. VALVE SEAL. WILLIAM G. SANDERSON, Chicago, Ill. Filed July 14, 1921. Serial No. 484,611. 6 Claims. (Cl. 292—307.)



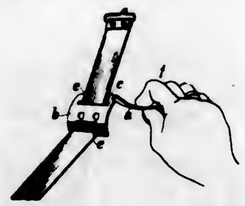
1. A device of the character described comprising a cover part sealed to a relatively stationary object and a display part connected thereto, normally invisible, sealed to a movable object, arranged to be disconnected from the cover part by movement of said movable object from sealed position, and made visible when disconnected from the cover part.

1,426,413. AERIAL CRAFT. JOHN C. SAVAGE, Ryde, Isle of Wight, England. Filed Dec. 21, 1920. Serial No. 432,237. 6 Claims. (Cl. 244—31.)



1. Means for producing smoke effects in midair by means of an aircraft, comprising the combination with the aircraft, of a plurality of separate receptacles carried thereby, different materials therein capable by admixture or chemical reaction of producing a dense smoke effect, and means governable at the will of an occupant for regulating the emission of said materials, the aircraft being manœuvered to enable signs, letters, advertising and other effects to be produced in mid air by the regulated smoke.

1,426,414. RAZOR STROP. EDGARD SCHUMANN, Berlin-Wilmersdorf, Germany. Filed July 31, 1920, Serial No. 400,566. Renewed July 10, 1922. Serial No. 573,922. 1 Claim. (Cl. 51—153.)



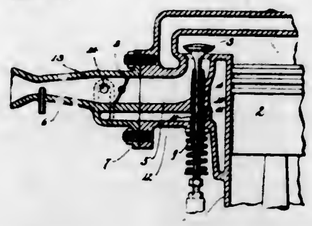
A stropping device for flexible safety razor blades, comprising a curved sheet having a handle, and also having a pair of spaced slots to receive and expose the cutting edges of the blade, and means on the concave side of the sheet to engage and hold the intermediate portion of the blade in spaced relation to the sheet, the width of said slots being sufficient to permit the passage of a strop therethrough, in contact with the blade.

1,426,415. CASEMENT-WINDOW ADJUSTER. JOHN H. SHAW, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed June 1, 1920. Serial No. 385,675. 11 Claims. (Cl. 292—275.)



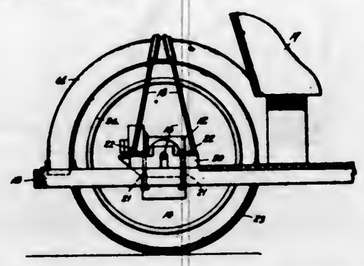
9. In an extensible member, an outer tube portion, an inner portion frictionally held against sliding movement within the outer portion, and means for varying the frictional engagement between said portions, said means including a plug cooperating with the inner portion and held against rotation within the outer portion.

1,426,416. MEANS FOR CONTROLLING FLUID LEAKAGE THROUGH JOINTS AND BEARINGS. LOUIS E. SHAW, East Orange, N. J., assignor to Williams Motors Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 16, 1920. Serial No. 410,731. 2 Claims. (Cl. 286—1.)



1. Means for preventing in internal combustion engines, air leakage through joints into space carrying combustible mixture of pressure lower than atmospheric, comprising a tubular member extending from the outside into the low pressure mixture space, an element disposed within the tubular member and forming the joint therewith to be protected from leakage, said tubular member having an annular space midway between its ends which surrounds said inner element, means for producing combustible mixture at or near atmospheric pressure and means for connecting said annular space with said source of combustible mixture.

1,426,417. WHEEL MOUNTING FOR LIGHT MOTOR VEHICLES. LOUIS E. SHAW, East Orange, N. J., assignor to Williams Motors, Inc., New York, N. Y., a Corporation of Delaware. Filed June 24, 1921. Serial No. 480,131. 2 Claims. (Cl. 180—1.)



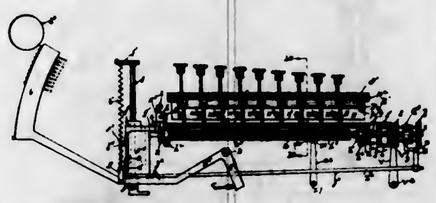
1. In a motor vehicle of the character described the combination of a vehicle wheel and its axle, with a vehicle frame surrounding said wheel and being suspended from said axle, one end of said axle being pivotally attached to one side of said frame, and means for removably attaching the other, free, end of said axle to the other side of said frame to permit the insertion of a wheel tire between the free axle end and the frame when said axle end is detached and elevated from the frame.

1,426,418. AMUSEMENT-PARK DEVICE. PAUL SIMON, Classon Point Park, N. Y. Filed Aug. 13, 1921. Serial No. 491,957. 1 Claim. (Cl. 46—27.)



A device of the class described comprising a power unit, an upright shaft actuated by said power unit, a hexagonal sided wheel secured to the upper end of said shaft, each side adapted to have one end of extensible bar members pivotally secured thereto, passenger cars pivotally secured to the opposite ends of the said bar members and adapted to tractionally ride on the surface of an annular track, a collar fixed to the axle of the traction trucks, oppositely disposed springs mounted in a housing, said housing having a pivoting member adapted to swivel in a member fixed to the floor of the passenger car and a means for allowing side slip of the passenger car substantially as shown.

1,426,419. COMPUTING AND RECORDING MACHINE. ABRAHAM SMITH, Erie, Pa. Filed May 17, 1920. Serial No. 381,875. 51 Claims. (Cl. 235—60.)



4. In a machine of the class described, comprising independently actuated type carriers and accumulator mechanisms, rotatable members mounted in the machine frame, means to rotate said members in either direction, two series of radial detents on each of said rotatable members, and manually manipulated mechanism adapted to engage detents in either series on said rotatable members and limit either the right or left rotation of the same and thereby control the action of said printing and accumulating mechanism, and actuating mechanism adapted to impart motion to said mechanism, substantially as set forth.

15. In a machine of the class described, a plurality of type-levers each carrying a series of types from "0" to "9" inclusive, individual spring actuated mechanism connected to each of said type-levers, actuating mechanism adapted to release said type-levers to the action of said individual spring-actuated mechanisms or operate them against the same, key-controlled rotatable mechanisms adapted to limit the upward movement of said individual spring actuated mechanisms for the printing of numerals, and mechanism operatable by said actuating mechanism to cause the type-levers to raise the zero type at the right of the numerals to the printing line, and prevent the raising of the type-levers at the left of the numerals, substantially as set forth.

30. In a machine of the class described, a recording mechanism comprising independently actuated type-carriers, accumulator mechanism, a rotatable member adapted to be returned to its initial position after each operation and to control said recording and accumulator mechanism, and means to transfer the amount of an accumulation to the recording mechanism to be recorded.

35. In a calculating machine, a gear member, means to rotate said gear member in either direction, an accumulator, means for engaging or disengaging said accumulator to and from said gear member during each operation, means for holding said accumulator at rest during a semi-rotation of said gear member, and means on the accumulator to limit the rotative movement of said gear member.

1,426,420. ROAD MARKER. LLOYD HUDSON SMITH, Waco, Tex., assignor to Texas Steel Highway Marker Association, Waco, Tex. Filed Apr. 21, 1922. Serial No. 555,929. 2 Claims. (Cl. 40—145.)

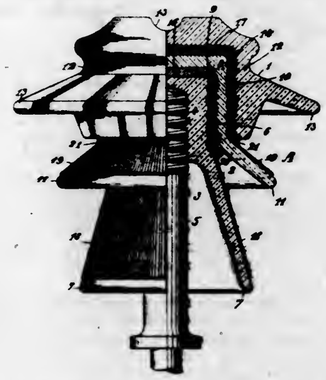


1. In a device of the class described, a standard cut away at its upper end to form a reduced arm and to form a transverse shoulder at the lower end of the arm, the shoulder having a seat: a plate abutting against the arm and received in the seat; and means for securing the plate to the standard.

1,426,421. CONDENSER CEMENTED SECTIONAL INSULATOR. SOL. S. SONNEBORN, Brooklyn, N. Y., assignor to Hopewell Insulation & Mfg. Co., Incorporated, a Corporation of Virginia. Filed Feb. 27, 1917. Serial No. 151,364. 2 Claims. (Cl. 173—318.)

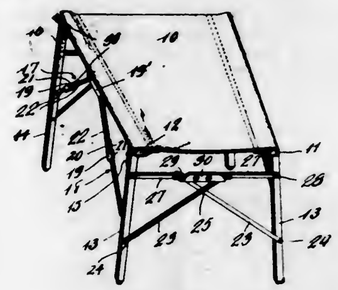
1. A high-potential insulator of the condenser type comprising a plurality of insulating sections, each section

comprising a cup-shaped portion, the cup-shaped portions being nested one within the other; one or more of the inner sections having a petticoat; a metallic filling covering the entire surface of a nested cup-shaped por-



tion of a section and mechanically uniting it with the next outer cup-shaped portion; and a metallic sheath covering the petticoat portion of said section and in electrical connection with said metallic filling.

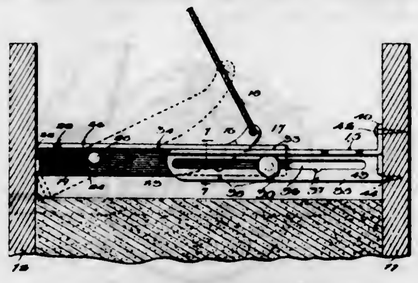
1,426,422. CHIROPRACTIC TABLE. HARRY F. STOWE, Elmira, N. Y. Filed May 18, 1921. Serial No. 470,517. 2 Claims. (Cl. 45—50.)



2. In a supporting member including side rails, opposite legs pivoted thereto at one end of the device, rods pivoted at corresponding ends adjacent the bottoms of the legs and pivotally connected together at points spaced from the upper ends of the rods, relatively shorter rods pivoted to the upper ends of the first named rods and to the adjacently positioned legs, links pivoted at their outer ends to the pivotal connections between said rods, and a locking plate pivoted between the inner ends of said links.

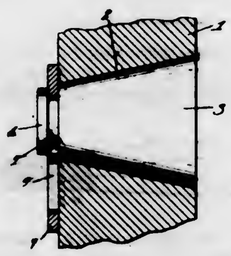
1,426,423. SPREADER. HORACE THOMPSON SWASEY, Trenton, N. J. Filed Jan. 12, 1921. Serial No. 436,854. 8 Claims. (Cl. 254—100.)

1. A spreader of the class described comprising a bar section having an upwardly curved apertured end and a top wall provided with a transverse abutment shoulder, an end wall at one end of the bar to engage an element to be braced, a section pivoted adjacent one end to said bar in juxta-position to the shoulder and having a transverse end wall designed to abut said transverse shoulder at the top, the opposite end of the second section being apertured, a third section slidably fitting against the second section in fixed alignment therewith and having an end wall at the opposite end of the spreader, a clamping bolt engaged through said aperture, and means whereby



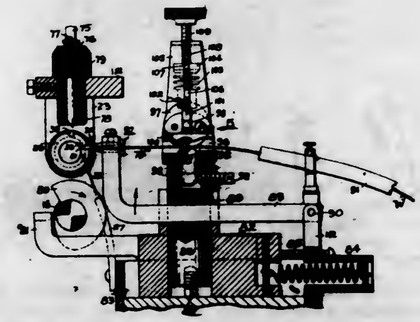
the third section is adapted to be engaged by said bolt, at a plurality of points for extension thereof and holding the same in adjusted position.

1,426,424. DOOR. SHERMAN TAYLOR, Wymore, Nebr. Filed Mar. 14, 1921. Serial No. 452,054. 2 Claims. (Cl. 109—1.)



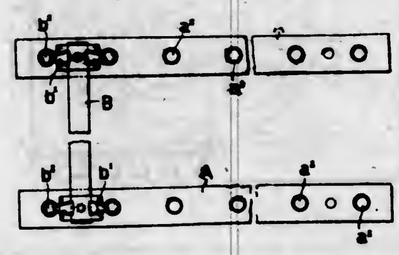
1. The combination with a door having an inwardly tapered opening therein, of a tapered plug normally seated in the opening and having an extension at its small end projecting from the back or inner face of the door, and means engaging said extension for holding the plug against withdrawal from the opening.

1,426,425. MACHINE FOR FORMING WIRE. NAPOLEON R. THIBERT, Worcester, Mass. Filed Mar. 23, 1921. Serial No. 454,654. 48 Claims. (Cl. 153—67.)



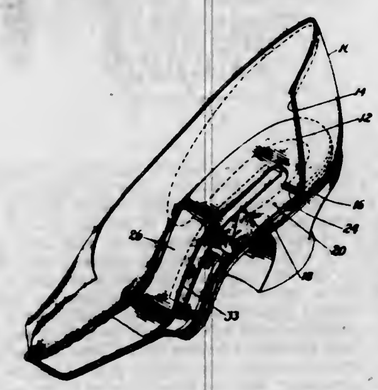
1. In a wire working machine, the combination of a driving shaft, a pair of operating shafts, means connected with the driving shaft for first driving one of the operating shafts through exactly a complete revolution and then driving the other operating shaft through exactly a complete revolution, and wire working devices connected with each of said operating shafts to be operated thereby.

1,426,426. SURFACE-MEASURING APPARATUS. HERMANN THUN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Feb. 9, 1921. Serial No. 443,694. 2 Claims. (Cl. 33—109.)



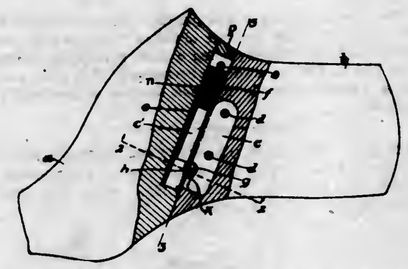
1. In a surface measuring machine, a plurality of parallel track bars, having distancing formations along said bars and a displaceable transversely arranged rod member cooperating with said bars, said rod member having a plurality of star shaped revoluble pedimental extremities engaging supportably with said distancing formations in a plural mating relationship.

1,426,427. SHOE AND SHOE-SHANK STIFFENER. FRED E. TOOTHAKER, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 15, 1919. Serial No. 345,004. 14 Claims. (Cl. 36—76.)



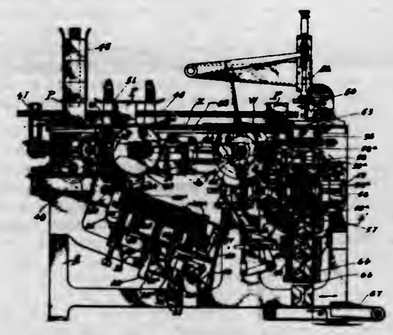
1. A turn shoe having an upper provided with a lining, a counter disposed between the upper and the lining and having a bottom piece, and a shank member fitting within said counter, overlying an inturned edge of the lining, and having a portion extending forwardly into the shank of the shoe, the portion of said shank member fitting within the said counter being reduced in thickness as compared to its forward portion an amount corresponding to the thickness of said bottom piece.

1,426,428. SELF-LOCKING LAST. RALPH C. WEBSTER, Haverhill, Mass., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Jan. 29, 1919. Serial No. 273,745. 21 Claims. (Cl. 12—135.)



9. A last comprising fore and heel parts connected together with provisions for relative movement in a manner to permit collapsing and extending the last, and a locking member to hold the last in extended position, said member being constructed and arranged to roll into and out of operative position under the action of gravity.

1,426,429. APPARATUS FOR PRODUCING SEALED WRAPPED PACKAGES. WILLIAM A. WEIGHTMAN and CHARLES H. NITSCH, Philadelphia, Pa., assignors to Stokes & Smith Company, Summerdale, Pa., a Corporation of Pennsylvania. Filed July 28, 1917. Serial No. 183,212. 18 Claims. (Cl. 93—7.)



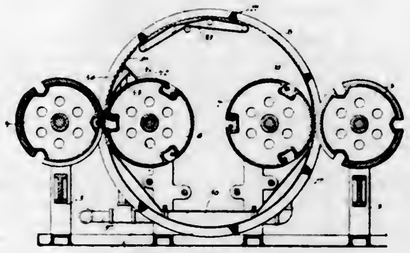
7. In a machine for adherently affixing adhesively-coated wrapper blanks to the exterior walls of a packet in the manufacture of sealed wrapped packages and in combination, means for advancing a packet to position a wall thereof in contact with a selected section of the wrapper blank to adherently affix said section of the blank to said wall and produce an assembly, devices for adherently affixing the remaining sections of the blank to complemental walls of the packet in succession and in regular progression in the direction of length of the blank, and devices for adherently affixing section end wings successively to the packet ends in an irregular progression.

13. A machine for enclosing articles or packages in sealed wrappers, comprising means for advancing an article and concurrently advancing a wrapper and bringing them into definitely registered engagement with portions of the wrapper extending laterally beyond the ends of the package and a relatively long portion of the wrapper extending beyond the package in the line of package advance, means for adhesively conditioning the wrapper before engagement with the article, means for advancing the assembly after registered engagement to an initial wrapping position, and means for folding the wrapper about the package and pressing it in position to produce a sealed wrapped package.

1,426,430. PHARMACEUTICAL PRODUCT. HERMANN WEYLAND, HANS HAHL, and RUDOLF BERENDES, Elberfeld, Germany, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Filed Aug. 8, 1921. Serial No. 490,699. 1 Claim. (Cl. 167—9.)

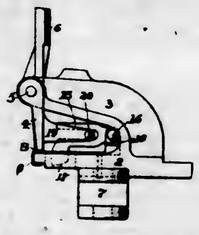
The herein-described new pharmaceutical compound being a condensation product obtained from xylent, sulfur and aluminium chlorid; being a dark yellow oil boiling at from 150 to 230° C. under a pressure of 3–5 mm., and being a valuable remedy against scabies, substantially as described.

1,426,431. MULTICOLOR-PRINTING PRESS. BRUCE C. WHITE, New York, N. Y. Filed Aug. 3, 1920. Serial No. 401,911. Renewed Nov. 29, 1921. Serial No. 518,713. 10 Claims. (Cl. 101—183.)



1. In a printing press of the type described, co-operating type and impression cylinders, an annular carrier device enclosing the impression cylinder, and a wedge shaped suction box located between said impression cylinder and carrier device, the adjacent edges of the converging side walls of said suction box being spaced apart and forming an air inlet to exhaust the air from the converging space between said impression cylinder and carrier device.

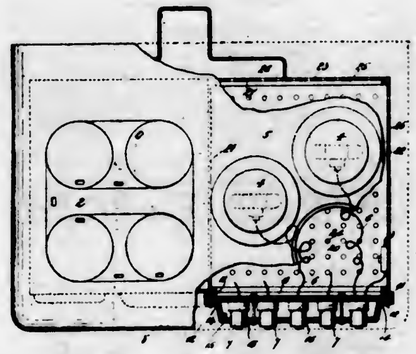
1,426,432. CLOTH CLAMP FOR TEXTILE MACHINERY. HUGO OSCAR WIEGAND, Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, a Corporation of Pennsylvania. Filed May 3, 1922. Serial No. 558,133. 6 Claims. (Cl. 26—8.)



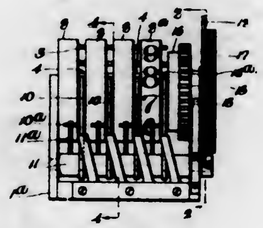
4. In a cloth clamp, a jaw formed of an extended plate provided with a slot and having its rear end formed with two upwardly bent arms to provide a hinge socket extending above the level of the plate and integral therewith, combined with a pivoted arm hingedly connected to the hinged socket and having a downwardly extending foot portion adapted to pass through the slot in the plate when not sustained by the cloth.

1,426,433. STOVE. CLARENCE F. WILEY, Taunton, Mass., assignor to Magee Furnace Company, Boston, Mass., a Corporation of Massachusetts. Filed July 8, 1921. Serial No. 483,134. 7 Claims. (Cl. 219—35.)

1. In a stove having electrically heated parts with circuit-forming connections and switches for controlling the application of the electric current, a board on which the switches are mounted occupying a position upon and spaced from the body of the stove whereby air may circulate around the board, a face plate to said board occupying a position spaced in part therefrom whereby air may pass between the plate and board, said spaced portion of the face plate having in it openings through which the switches extend out of contact with the face plate.



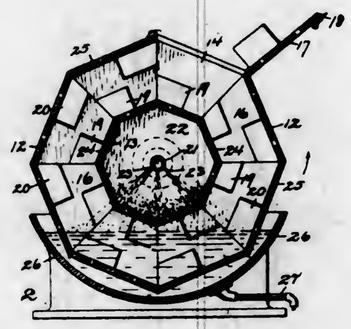
1,426,434. COUNTER. WALTER WILLIAMSON, New York, N. Y., assignor to Crosby Steam Gage & Valve Company, Boston, Mass., a Corporation of Massachusetts. Filed July 18, 1918. Serial No. 245,487. 2 Claims. (Cl. 235—142.)



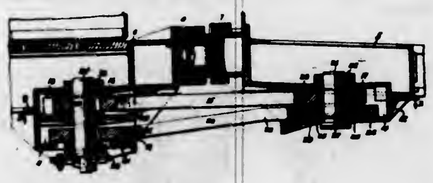
1. In a counter of the character described, in combination, a main shaft; means for rotating the shaft and means for preventing the rotation thereof, each of said means being under the control of the operator; a plurality of wheels rotatably mounted on said shaft alternately with cams fixedly mounted thereon; each wheel having on one side annularly disposed studs and on the other side a spring-controlled driving pawl; a rocking shaft disposed parallel to the main shaft; and a plurality of spring-pressed locking pawls vibratively mounted thereon and severally engaging each a stud on the oppositely disposed wheels; the driving pawls engaging and co-acting severally with the adjacent cams to successively disengage the locking pawls from the studs and themselves engage the studs and drive the wheels a predetermined distance and then release them.

1,426,435. POLISHING AND TUMBLING BARREL. FREDERICK WINKLER, Bloomfield, N. J. Filed Nov. 12, 1919. Serial No. 337,460. 2 Claims. (Cl. 51—164.)

1. A tumbling barrel comprising a polygonal inner shell, a polygonal outer shell, end walls, all combining to form a polygonal annular chamber, vanes extending from the end walls along the inner shell and part way across, these vanes being inclined circumferentially in the same direction, and vanes extending from the end walls along the outer shell and inclined circumferentially in the same direction, but opposite to the direction of inclination of the first mentioned vanes.



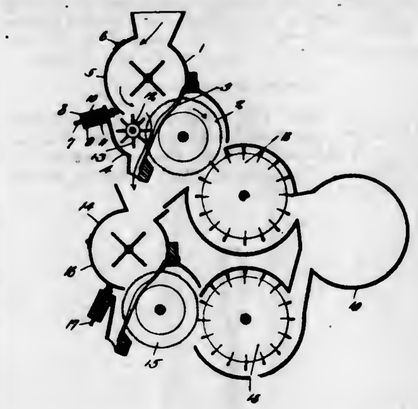
1,426,436. DRAFT CONNECTION. WILLIAM E. WOODARD, Forest Hills, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed June 27, 1921. Serial No. 480,539. 4 Claims. (Cl. 213—42.)



1. In a locomotive and tender connection the combination of a pair of draw bar pockets on the tender one above the other, a single draw bar pocket on the locomotive, a hub extending upwardly from the lower portion of the locomotive pocket, a draw bar extending at one end into the upper pocket on the tender and at the other end into the pocket on the locomotive, the locomotive end being adapted to rest upon said hub, a safety bar extending at one end into the lower pocket on the tender, said safety bar being bent upwardly from said end so as to enter the pocket on the locomotive at the other end and being adapted at the locomotive end to embrace the hub, a pin on the tender for the ends of both bars and a pin on the locomotive for the end of the draw bar only.

1,426,437. COTTON GIN. JOHN WOOLDRIDGE, Temple, Tex., assignor of one-half to Marco Marks, Crawford, Tex. Filed Dec. 17, 1918. Serial No. 267,108. 1 Claim. (Cl. 19—61.)

In a gin, a roll box having a downwardly curved upwardly and outwardly opening hinged front board, a hopper arranged below said box into the upper end of which the free end of said board projects, ribs constituting one wall of said hopper, gin saws extending between said ribs into said hopper and into said roll box, a rotatable roll in said hopper having fingers extending between the saws and adjacent the ribs, and adjustable, yieldable means slidably mounted in one wall of said hopper and



pivotally engaged with the front board for holding said board yieldably pressed inward to position over the roll.

1,426,438. LEAD PENCIL. DAVID ZAKIM, New York, N. Y., assignor to Sterling Metal Novelty M'f'g Co., Inc., New York, N. Y., a Corporation of New York. Filed May 31, 1921. Serial No. 473,599. 3 Claims. (Cl. 120—21.)



3. A clutch pencil comprising an exterior tubular casing formed integrally therewith with a forward tapered tip member, a central clutch tube extending longitudinally through said casing and adapted at its forward end to said tip-member, and at its rear end having rigidly secured thereto an exposed head carrying a nut in threaded engagement with the rear end of said exterior casing, said head closing the rear end of said casing and being detachable with said tube from said end of said casing, and an elongated tube through which said clutch-tube extends and by which it is guided in its longitudinal movements and which elongated tube has at its forward end a laterally extending cup-shaped head closely engaging the interior walls of said casing and at its rear end laterally extending spaced-apart arms whose extremities are bent longitudinally to engage the inner walls of said casing, a chamber for reserve leads being formed between said elongated tube and said casing and said leads being introducible into said chamber through the rear end of said casing and between said spaced-apart arms, and said head serving as a support for said leads.

1,426,439. CONTAINER. PHILIP ZALKIND, New York, N. Y. Filed Apr. 23, 1918. Serial No. 230,203. 5 Claims. (Cl. 229—17.)



1. A container comprising enclosing walls, a member provided in an exposed wall of the container normally

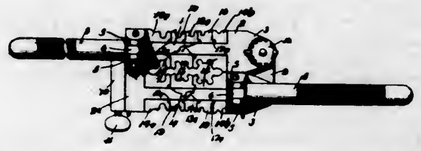
closing the same and adapted to be separated therefrom along a predetermined line to provide an aperture therein, and a member formed in an unexposed wall of the container and adapted to be secured to the aforesaid member and to form a trough which is operated by the first aforesaid member to open and close the said aperture.

1,426,440. MOP AND WRINGING ATTACHMENT THEREFOR. RICHARD ZIESCHANG, London, England, assignor of one-half to Wilbert Edward Stratton, London, England. Filed May 29, 1920. Serial No. 385,261. 6 Claims. (Cl. 15—119.)



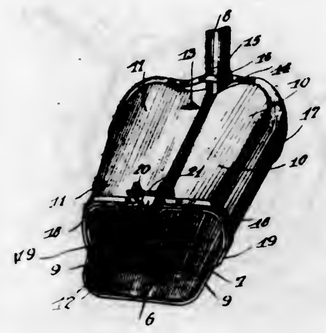
1. The combination of a stem and a mop head thereon with a sleeve sliding on said stem, a casing carried by said sleeve into which casing the mop head can be drawn, flaps carried by said casing and adapted to close over the open lower end thereof, a second sleeve sliding over the first sleeve, and connections from said second sleeve to said flaps whereby movement of the second sleeve over the first sleeve is caused to close together or open out said flaps.

1,426,441. THREAD-CUTTING TOOL. JOHN H. ZOERMAN, Chicago, Ill. Filed June 14, 1920. Serial No. 388,725. 2 Claims. (Cl. 10—114.)



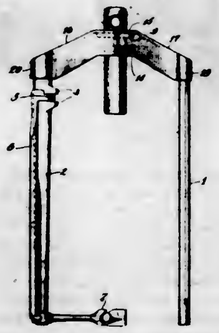
2. A device of the character described comprising a pair of members adapted to lie substantially parallel to each other and having coacting die faces on adjacent sides, a pair of ears projecting laterally from each member adjacent an end thereof, said ears projecting from opposite ends of the members, a member having a threaded shank pivotally mounted between the ears of each pair of ears, and a handle threaded on to each of said shanks, substantially as and for the purposes described.

1,426,442. ATTACHMENT FOR SHOVELS. JOSEPH FERDINAND ADAM, Marengo, Saskatchewan, Canada. Filed Mar. 3, 1921. Serial No. 449,758. 4 Claims. (Cl. 294—49.)



1. The combination with a shovel, such as above described, of an attachment therefor, including a pair of sections, means for connecting said sections, and clips attached to the sides of said sections, for engaging the shovel and preventing the displacement of said attachment.

1,426,443. FLIER. WILLIAM O. ALDRICH, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a Corporation of Massachusetts. Filed Aug. 26, 1920. Serial No. 406,165. 8 Claims. (Cl. 118—57.)

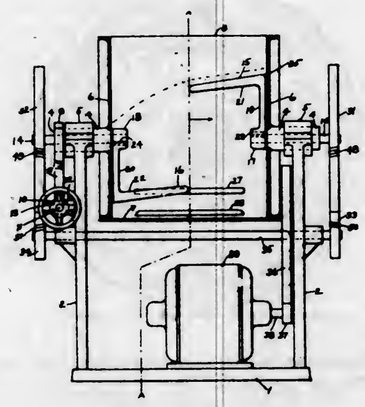


4. A flier comprising a crown formed from sheet metal and having a yarn slot at one end thereof, a separately formed, hollow leg having a yarn slot secured to the said slotted end of the crown and having its interior passage opening through the crown, a solid leg secured to the other end of the crown and a hub secured in a central perforation in said sheet metal crown.

1,426,444. MACHINE FOR MIXING DOUGH. DANIEL K. ALLISON, Milwaukee, Wis. Filed Mar. 26, 1920. Serial No. 368,828. 10 Claims. (Cl. 259—109.)

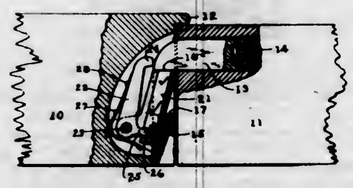
1. In a machine for mixing dough the combination of a tank or receptacle for containing the dough mass, mixing blades of cylindrical cross sections mounted independent

of each other and projecting inwardly from the ends of the tank and rotating in the same direction, a common



shaft outside the tank, drive means connecting the mixing blades to said common shaft and power means for rotating said shaft.

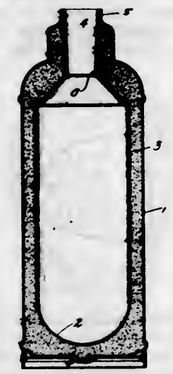
1,426,445. DOOR LATCH. OLAF A. ANDERSON, Hamilton, Ohio. Filed July 20, 1921. Serial No. 486,047. 5 Claims. (Cl. 292—340.)



1. In a device of the class described, the combination of a strike plate for door latches, a member carried thereby and movable transversely of the direction of movement of the latch, into engagement with the latter, and a pivoted lever having one arm in position to be actunted by said latch and another arm operatively connected with said member to actuate same.

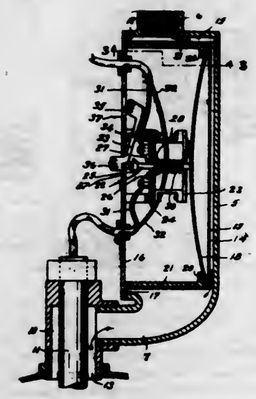
1,426,446. HEAT-INSULATED RECEPTACLE. GEORGE C. ANTHON, New York, N. Y., assignor to Stanley Insulating Company, Great Barrington, Mass., a Corporation of Maine. Filed Nov. 1, 1919. Serial No. 335,126. 3 Claims. (Cl. 215—13.)

1. The method of constructing a vacuum receptacle, which comprises providing an outside shell having a bottom and a mouth portion, the mouth portion being of metal, placing within and in spaced relation to the outer shell, a second but shorter shell with a metallic mouth portion and a closed bottom, connecting the neck portions of the two shells by welding to the mouth portions thereof respectively the ends of a tubular connecting member made of a metal different from the metal of the mouth portions of the two shells and of higher thermal resistivity, but less adherent to an enamel or vitreous coat, whereby the connecting member is an integral part of the inner shell and holds the two shells in spaced rela-



tion, treating the interior surface of the connecting member to render it more adherent to an enamel or vitreous coat, and applying a continuous enamel or vitreous coat on the interior of the shell and connecting member.

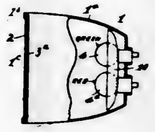
1,426,447. THERMOSTATIC SWITCH. PHILIP F. APPEL, Seattle, Wash., assignor of one-half to Waldo E. Mather, Seattle, Wash. Filed Apr. 4, 1921. Serial No. 458,375. 1 Claim. (Cl. 200—138.)



Apparatus of the character described, comprising a housing, a liquid tight receptacle formed of relatively thin heat conducting walls disposed within said housing and spaced from the walls thereof to afford narrow passageways for liquid, liquid inlet and outlet means connected with said housing, a thermostat plat disposed within said receptacle in close proximity to a wall thereof said plate being adapted to be bowed outwardly by a rise of temperature, a switch stem connected with the central portion of said plate, spaced switch terminals adjacent said stem, a contact member on said stem for

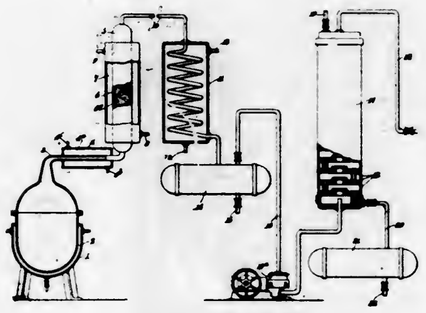
bridging the gap between said switch terminals, and means connected with the outer end of said switch stem for indicating the open and closed position of said switch.

1,426,448. MOTOR-VEHICLE SIGNAL. ALBERT L. AUSTIN, Cleveland, Ohio, assignor to Victor Grande and Anthony J. Ferris, both of New York, N. Y. Filed Jan. 22, 1920. Serial No. 353,288. 7 Claims. (Cl. 177—329.)



1. In motor vehicle signaling means, including a panel provided with license indicating characters, means for normally illuminating said panel with light of one color to display the license and for changing the illumination to a light of another color to give a signal.

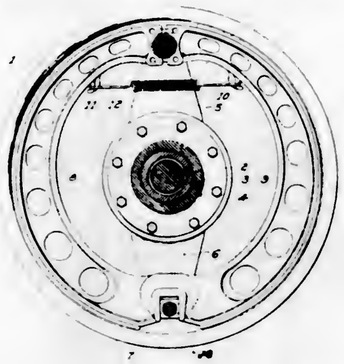
1,426,449. APPARATUS FOR MAKING ALDEHYDES AND SEPARATING THE SAME FROM THE OTHER PRODUCTS FORMED. ARTHUR A. BACKHAUS, Baltimore, and FRED B. ARENTZ, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 24, 1918. Serial No. 241,651. 2 Claims. (Cl. 260—173.)



1. In combination, a catalyzer, means for passing alcohol vapors through the same to form an aldehyde and hydrogen an alcohol condenser, and means for separating the resultant aldehyde and hydrogen comprising a scrubbing column for bringing acetic acid in contact therewith adapted to conduct the liquid and vapors into contact with each other on the counter-current principle.

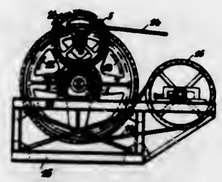
1,426,450. BRAKE MECHANISM. WALTER C. BAKER, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 14, 1919. Serial No. 282,636. 8 Claims. (Cl. 188—78.)

1. In brake mechanism, the combination of a brake drum, a brake shoe, means for resiliently holding said brake shoe against lateral movement relative to the central plane of rotation of said brake drum, and means



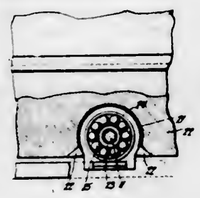
for releasing said holding means and holding said means in released position.

1,426,451. DRIVING MECHANISM FOR ROPE AND CHAIN RAILWAYS. CARL BAUM, Halle-on-the-Saale, Germany. Filed Mar. 31, 1921. Serial No. 457,550. 2 Claims. (Cl. 104—178.)



1. Driving mechanism for rope- and chain-railways comprising in combination two driving pulleys, a tensioning roller for double rope-winding and a planet gearing, of which said driving pulleys form parts, the driving force being applied through said planet gearing in such a manner as to equalize simultaneously the pulling force of the rope and to effect a transmission into slow speed.

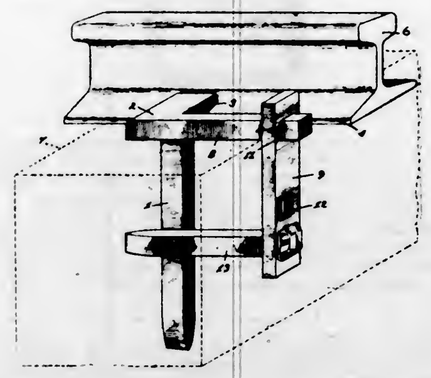
1,426,452. CASTER FOR SHOW CASES. SAM BERMAN, Chicago, Ill. Filed Nov. 8, 1920. Serial No. 422,567. 2 Claims. (Cl. 16—100.)



2. A device of the character described comprising a two part casing, a solid axle connecting and securing said casing parts together, said axle being provided with an integral enlarged central portion, providing shoulders for spacing said casing parts in definite relationship, a ring loosely mounted on said axle within said casing to

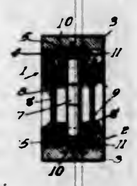
provide play between said ring and axle, a second ring mounted within said casing in spaced relation to said first mentioned ring and in alignment with said enlargement, and bearing balls mounted in said casing and between said rings, said casing substantially enclosing the movable parts of the device, the ends of said shaft being riveted over to secure the casing parts together, said casing being provided with depressed portions for receiving the rivet heads and with holding prongs diverging obliquely to the central plane of said device, said depressed portions forming inwardly extending portions engaging the shoulders on said axle to space said casing parts.

1,426,453. RAILROAD SPIKE. HENRY BLAIR, San Ardo, Calif., assignor of one-half to Henry M. Madson, San Lucas, Calif. Filed Dec. 3, 1921. Serial No. 519,589. 6 Claims. (Cl. 85—23.)



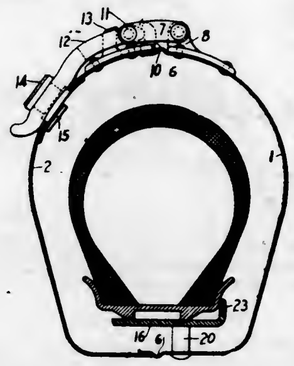
1. A railroad spike arranged to be driven into a tie and having a lip arranged to engage the flange of a rail; a laterally disposed extension from the lip arranged to extend over the edge of the tie; and means engaging said extension for anchoring said spike to the tie.

1,426,454. LEVEL. GUSTAVE BREDESON, Chicago, Ill., assignor to Edwards and Powell Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 24, 1921. Serial No. 439,506. 5 Claims. (Cl. 33—211.)



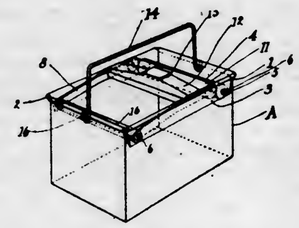
1. In a level of the kind described, a central body member having central longitudinal grooves in its edges, edge strips having longitudinal central tongues entering said grooves, the central member having an opening for receiving level glasses, the level body provided with level receiving pockets extending outwardly on each side from said opening in the central body portion and into the edge strips and hard cement in said pockets adapted to interlock the parts together and serve as mountings for the level glasses.

1,426,455. COMBINED TIRE CARRIER AND CASING. JOHN R. BROWNELL, Dayton, Ohio. Filed June 20, 1921. Serial No. 478,911. 11 Claims. (Cl. 224—29.)



10. A casing for a tire or the like comprising two annular sections, the edge of one section being arranged to overlap the edge of the other section, said other section having a portion of its surface inclined and arranged to be engaged by the edge of the first mentioned section, and means for connecting said sections one to the other and causing the first mentioned section to engage the inclined surface of the other section with a wedging action.

1,426,456. MOP WRINGER. RALPH BROWNSON, Hastings, Minn. Filed Mar. 29, 1919. Serial No. 286,107. 1 Claim. (Cl. 15—232.)

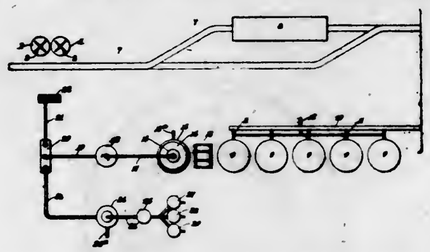


A mop wringer comprising a tank open at its top and having web-extensions along the upper side edges, a reinforcing wire secured along the upper edges by bending said web-extensions downwardly thereover, spindles extending transversely across the tank and having their opposite ends extending through the opposite sides of the tank and the overlying web-extensions, the outer ends of said spindles being headed to secure the spindles and web-extensions in place, a wringer roll supported on one spindle, and a wringer-roll-supporting frame journaled on the other spindle.

1,426,457. PROCESS OF RECOVERING VOLATILE ORGANIC ACIDS FROM DISTILLERY WASTE. LLOYD M. BURGHART, Govans, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 24, 1918. Serial No. 241,502. 2 Claims. (Cl. 260—119.)

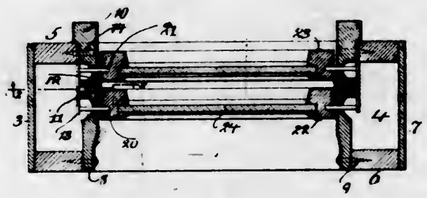
2. The process which comprises mixing a soluble caustic with a quantity of sugary materials, expoaing the mixture to furnace heat sufficient to form a clinker comprising a corresponding soluble oxalate, dissolving this oxalate and associated salts in acidified water, separating solids from the solution so formed, thereafter adding to the filtrate

lime sufficient to precipitate calcium oxalate, separating the precipitate from the liquid portion, evaporating the liquid



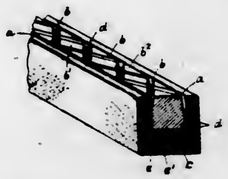
portion, and thereafter treating it with an excess of a non-volatile mineral acid and with an alcohol while collecting the esters evolved therefrom.

1,426,458. WINDOW FRAME AND SASH. HARRY E. CAMPBELL, New York, N. Y. Filed Nov. 30, 1921. Serial No. 518,756. 2 Claims. (Cl. 20—52.4.)



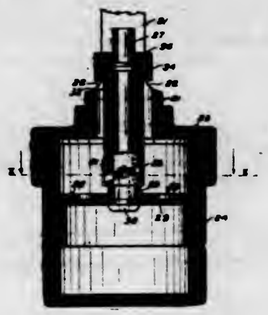
1. In combination, two sliding sashes having lateral extension plates on their side rails, a frame having hollow jambs, each jamb comprising a fixed wall, wherewith said extension plates cooperate, and an inner wall formed in four removable sections, to wit, an inner section, an outer section and two middle sections, one of said middle sections being secured to said fixed wall and the other of said middle sections being secured to said first-named middle section; there being gaps for the reception of said extension plates between the edges of said last-named middle section and the edges of the inner and outer sections adjacent thereto.

1,426,459. ENGINE PACKING. JOHN ARTHUR CANN, Harefield, near Uxbridge, and JAMES BURROWS, Harefield, England, assignors to Bell's United Asbestos Company, Limited, London, England. Filed Aug. 16, 1921. Serial No. 492,814. 2 Claims. (Cl. 288—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. An engine-packing comprising a continuous metallic core, a canvas-like backing attached thereto by means of a yarn-like binding, and an outer wrapping of folded material, such as canvas, the several layers of canvas-like material being treated with india rubber solution and united by vulcanizing.

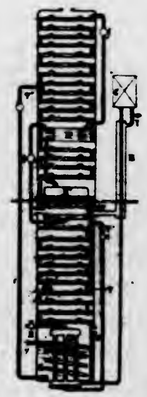
1,426,460. DASHPOT. HERBERT W. CHENEY, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Original application filed Aug. 5, 1918, Serial No. 249,588. Divided and this application filed Mar. 29, 1920. Serial No. 370,289. 5 Claims. (Cl. 188—100.)



1. A dash-pot having a lid, a piston for said dash-pot, a tube fastened to said lid, a piston rod passing through said tube, a leak valve carried by said piston, and means extending into said tube for adjusting said leak valve.

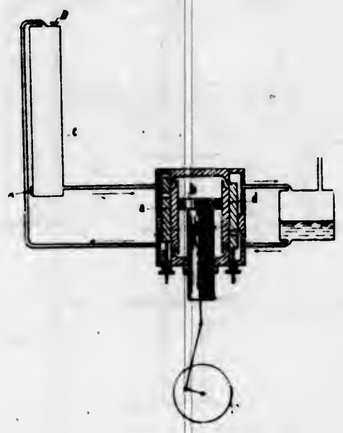
5. A dash-pot having a piston and a rod therefor, an axial hole in said rod, a transverse hole communicating with said axial hole, and a tube fitting over said rod having a slanting transverse slot therein registerable in whole or part with said transverse hole in said rod.

1,426,461. METHOD OF SEPARATING THE CONSTITUENTS OF GASEOUS MIXTURES. GEORGES CLAUDE, Boulogne-sur-Seine, France, assignor to L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes, Georges Claude, Paris, France. Filed Dec. 6, 1917. Serial No. 205,708. 20 Claims. (Cl. 183—115.)



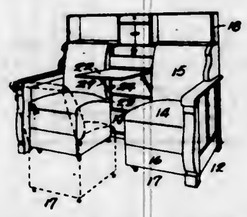
8. A method of recovering argon from air, which comprises rectifying a liquid enriched in oxygen and containing nitrogen and argon, and subjecting the effluent from the rectification to selective liquefaction to separate nitrogen therefrom, rejecting the nitrogen and returning the liquid formed for further rectification.

1,426,462. PRODUCTION OF HYDROGEN. GEORGES CLAUDE, Boulogne-sur-Seine, France, assignor to L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes, Georges Claude, Paris, France. Filed May 31, 1918. Serial No. 237,542. 3 Claims. (Cl. 62—170.)



1. In the separation of the constituents of gaseous mixtures and particularly in the recovery of hydrogen by solution under pressure and at low temperature of the other constituents of the mixture, the method which comprises, disengaging and expanding the gas which is dissolved in a limited quantity of saturated liquid and thereby cooling the liquid, separating the gas from the liquid and directly utilizing the power produced by said expansion for returning an equal quantity of the unsaturated liquid for further absorption of gas under pressure.

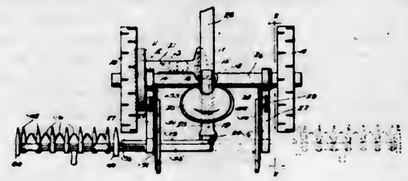
1,426,463. COMBINATION FURNITURE. RUDOLPH COOPERSMITH, Montreal, Quebec, Canada. Filed Nov. 8, 1920. Serial No. 422,705. 6 Claims. (Cl. 5—18.)



2. The combination in a single article of furniture of a frame, a folding bed mounted therein, a table hingedly attached to said bed and movable to operative position during folded condition of the bed, and a plurality of chair sections arrangeable to provide seating accommodation at three sides of said table and arrangeable in alignment within the frame during inoperative position of the table to form a divan seat and back within the frame, said sections being entirely separable from one another and the frame so as to be serviceable as independent chairs.

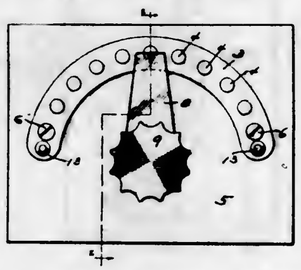
1,426,464. SIDEHILL-MOWING MACHINE. CHARLES A. CROSSLER, Dayton, Wash. Filed May 7, 1921. Serial No. 467,767. 3 Claims. (Cl. 56—266.)

1. In a mowing machine, a finger bar pivotally supported at one end upon the frame of the machine at the middle of the machine and being thereby adapted to be shifted through an angle of 180° from one side of the machine to the other, a cutter bar reciprocable upon the finger bar and movable therewith, the finger bar being provided with fingers having opposed ground engaging



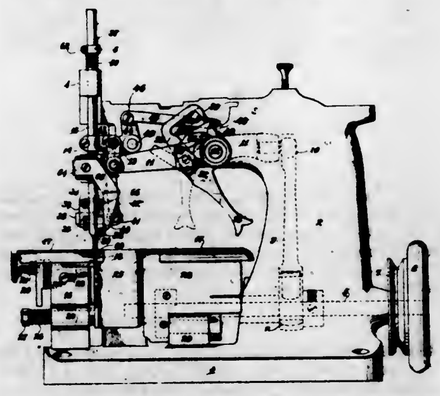
faces between which the cutter bar reciprocates, rollers carried upon the finger bar and bearing upon the cutter bar, and shoes mounted upon the finger bar and projecting above and below the finger bar whereby to engage the ground in either position of the finger bar.

1,426,465. VARIABLE RESISTANCE. ERNEST G. DANIELSON, San Francisco, Calif., assignor to Elmer T. Cunningham, San Francisco, Calif. Filed Feb. 14, 1921. Serial No. 444,997. 14 Claims. (Cl. 219—76.)



1. A resistance element, comprising a molded mixture of a finely divided conducting material and a synthetic gum which hardens in molding.

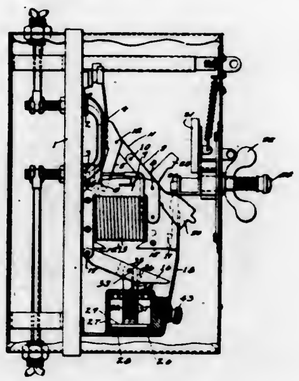
1,426,466. TRIMMING DEVICE FOR SEWING MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed June 7, 1919. Serial No. 302,475. 8 Claims. (Cl. 112—125.)



8. In a sewing machine, in combination, a work-support, an overhanging bracket-arm, a reciprocating needle-

bar mounted in said bracket-arm, a needle-lever fulcrumed upon said bracket-arm and operatively connected with said needle-bar, means for actuating said needle-lever, a ledger-blade mounted below said work-support, a movable blade mounted above the work-support, connections between the needle-lever and movable blade for actuating the latter, and a controlling lever mounted upon the bracket-arm and disposed within reach of the hand of the operator without necessitating removal of the hand from work-directing position whereby the movable blade may be readily connected to or disconnected from its actuating means and said movable blade restored to operative position while the work is in progress.

1,426,467. CIRCUIT-BREAKER TRIPPING STRUCTURE. THOMAS B. EASTBURN, Philadelphia, Pa., assignor to The Cutter Electrical and Manufacturing Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Dec. 23, 1920. Serial No. 432,642. 7 Claims. (Cl. 200—97.)



6. The combination with a movable member, of a tube supported at one end on said movable member, a sucker device having a movable element, a spring connecting said movable sucker element with said movable member and disposed within said tube, said tube engaging said movable sucker element at its opposite end, said tube separating from said movable sucker element upon elongation of said spring by said movable member.

1,426,468. LOOSE-LEAF BINDER AND THE LIKE. ROBERT LYCERTWOOD ESSON, Johannesburg, Transvaal, South Africa. Filed Sept. 3, 1921. Serial No. 498,211. 5 Claims. (Cl. 129—1.)



1. In loose-leaf binders, a key comprising a portion which is adapted to fit over the end of the rod or spindle of the adjusting mechanism, and a spring-actuated piece which is yieldingly carried by said portion and is adapted to engage with that part of the rod or spindle over which said portion fits.

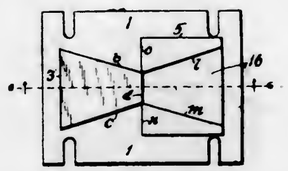
1,426,469. FENCEPOST. JASON A. FITCH and FRED C. SHEA, Youngstown, Ohio. Filed Feb. 16, 1921. Serial No. 445,331. 1 Claim. (Cl. 189—23.)

A fence-post formed from a tapering blank of sheet metal, and provided with a reinforcing bend along its longitudinal center substantially the full length of the post,—the extent or depth of the bend, however, being



gradually diminished from bottom to substantially zero point at top,—each edge of said strip being provided with an engaging flange.

1,426,470. SHEARING DIES FOR SPRING PLATES. JAMES A. FRAY, Bridgeport, Conn., assignor to Coulter & McKenzie Machine Company, Bridgeport, Conn. Filed Mar. 29, 1921. Serial No. 456,567. 2 Claims. (Cl. 164—58.)

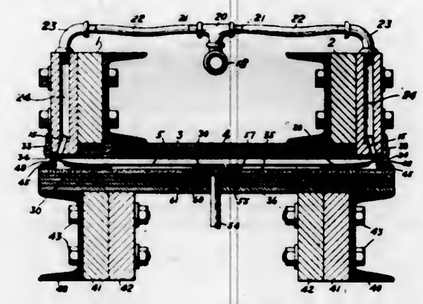


1. In a shearing die, an upper and a lower die each a counterport of the other, each die having an inwardly tapered punch and each having transverse cutting edges at their inner ends, said dies each having inwardly tapered shearing recesses for receiving the respective punches of the complementary die, said transverse cutting edges being substantially in register with each other so as to cut the stock on a single transverse line which latter forms an end of each of the severed parts of the stock.

1,426,471. VACUUM MEANS FOR HOLDING TYPE AND MUSIC SHEETS UPON PRINTING PRESSES. GEORGE FUSSELL, Philadelphia, Pa. Filed Dec. 27, 1920. Serial No. 433,329. 17 Claims. (Cl. 101—316.)

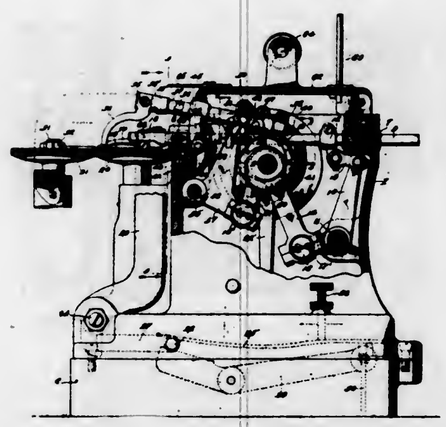
1. In a printing press, the combination of a printing head having a type sheet supporting surface, abutments

situated at the opposite lower edges of said head and projecting below the type sheet supporting surface, a



type sheet, and means for holding the said sheet against said surface with its opposite edges in abutting relation to said abutments.

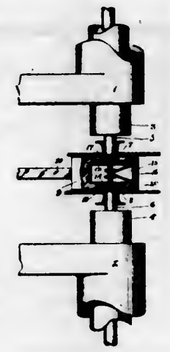
1,426,472. GLOVE AND FUR SEWING MACHINE. ALFRED GRIER, Elizabeth, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Nov. 1, 1919. Serial No. 335,087. 20 Claims. (Cl. 112—16.)



1. In a sewing machine, in combination, stitch-forming mechanism comprising a needle and looper, a looper-bar, a pivoted yoke for supporting the looper-bar, means for oscillating the looper-bar about its axis, toggle means connected to the looper-bar and adapted to reciprocate said bar and with the yoke to impart up and down movements to the looper, and means for operating said toggle means.

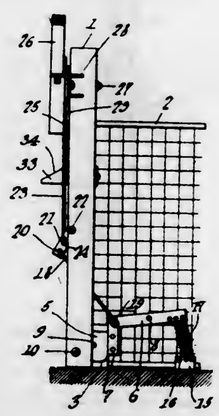
1,426,473. DUPLEX FASTENER-SETTING MACHINE. FRANK L. HARMON, Beverly, Mass., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed June 9, 1920. Serial No. 387,549. 10 Claims. (Cl. 218—152.2.)

6. In combination, a block having opposed punch elements and fastener setting surfaces, means for pressing work against said punch elements to punch the same, setting means telescopically related to said pressing means and co-operating with said setting surfaces to set fasteners in the holes punched, and oppositely acting ejector



means for freeing the punchings from said punch elements on the retraction of said pressing means.

1,426,474. GATE. WALTER V. HART, Jacksonville, Fla., assignor to Simon F. Williams, Jacksonville, Fla. Filed Sept. 25, 1920. Serial No. 412,842. Renewed July 13, 1922. Serial No. 574,783. 4 Claims. (Cl. 39—43.)

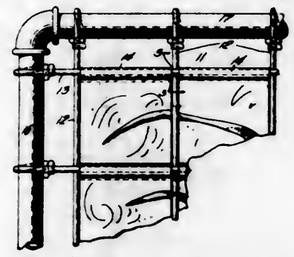


1. In a device of the class described, a support; a pivot element carried by the support; a gate mounted at its lower inner corner to swing vertically on the pivot element; a lever fulcrumed on the pivot element; an operating member connected to the lever and constituting means for swinging the gate on the pivot element; and a retractile spring connected with the lever and with the gate and serving as a cushioning means at the inception of the swinging of the gate by the operating member.

1,426,475. SIGN AND THE LIKE. CHARLES W. HAWTHORNE, Buffalo, N. Y. Filed Apr. 21, 1922. Serial No. 555,835. 4 Claims. (Cl. 40—138.)

1. In a sign or the like, the combination with a supporting structure comprising a wire fabric composed of a plurality of cross wires running two ways of the fabric and forming intervening openings, of a plurality of sign

elements hung on said fabric to swing independently each in one of said openings, said elements practically filling



said openings and forming a practically continuous sign surface for a representation, different component portions of which are formed by different elements.

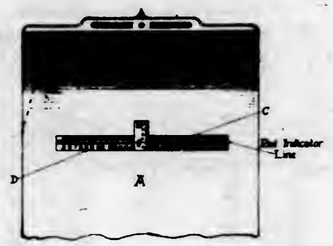
1,426,476. COLLAPSIBLE JOIST-BORING MACHINE. ROBERT HALSEY HENDERSON, East Orange, N. J. Filed Mar. 13, 1920. Serial No. 365,413. 1 Claim. (Cl. 144—165.)



In a joist boring machine, a collapsible standard comprising a plurality of telescopically associated tubular sections of circular cross sectional shape, the upper section carrying a rotatable boring bit head having a driving sprocket, the lower section carrying an idler pulley, an endless drive chain running over and between said sprocket and idler pulley, and means for interlocking said sections in predetermined extended relation whereby said sprocket and idler pulley are vertically alined in proper spaced relation to establish the straight running of said drive chain at proper tension, said means comprising a thumb screw in transverse threaded relation to the end of one section, the engaging end of the adjoining section having an aligning eye in its wall through which the biting end of said thumb screw is passed to binding engagement with the opposite inner surface of said section, to force said section in clamped relation to the other section and securely held against wabbling.

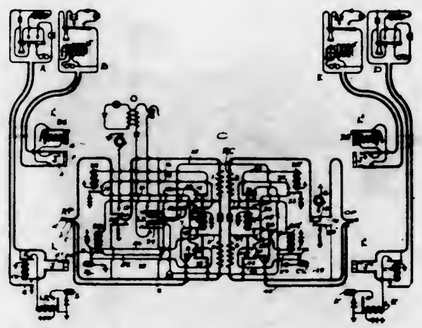
1,426,477. COMPUTING SCALE. ARTHUR HOWARD HEATZMAN, Baltimore, Md. Filed Dec. 31, 1920. Serial No. 434,302. 4 Claims. (Cl. 235—87.)

1. In a registering device for computing scales, a case having transparently covered longitudinal openings, one on each side, a set indicator along each of the said openings, two revoluble cylinders within the said case each of the



said cylinders having journal boxes mounted permitting up and down movement with means for preventing lateral displacement.

1,426,478. UNIVERSAL CORD CIRCUITS. JOHN E. HILDISH, La Grange, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 30, 1919. Serial No. 273,970. 10 Claims. (Cl. 179—73.)

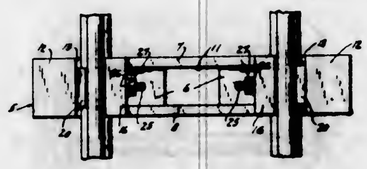


1. A telephone system including a subscriber's telephone line, a link circuit, a terminal for said link circuit for connecting said link circuit with said subscriber's line, a relay connected to a contact of said terminal and operable upon connection of said terminal to said line to connect itself to another contact of said terminal as well as to the first contact of said terminal through contacts controlled by said relay, and a supervisory relay normally disconnected from said terminal, the connection of said supervisory relay with said terminal controlled by said first relay.

1,426,479. RAILROAD TIE. ROBERT R. HYDE and JOHN C. HOOK, Shattuck, Okla. Filed Jan. 28, 1922. Serial No. 532,400. 2 Claims. (Cl. 238—62.)

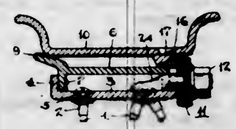
2. A railroad tie of the character described comprising a body member including a bottom and side walls, said bottom having a relatively large opening in its central portion to permit the entrance of ballast, the ends and top portion of the tie being open, a stationary jaw member carried by the upper edges of the side walls adjacent each end of the tie, plates carried by the end portions of the tie in spaced relation to the stationary jaw members,

walls disposed beneath the stationary jaw members in spaced relation to the edge of the opening in the bottom



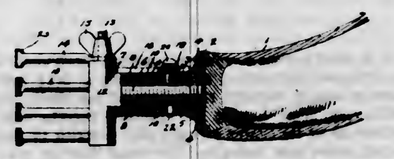
of the tie, and a movable jaw member slidable within each end portion of the tie between the wall and the extremity of said end portion.

1,426,480. WIRE-SPOKE WHEEL. OTTO H. JOSKI, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 19, 1920. Serial No. 397,492. 4 Claims. (Cl. 301—20.)



1. In a wheel, the combination with a fixed rim in the form of an annular channel having outwardly directed flanges, and a tire-carry rim; of a second, transversely split, annular channel having inwardly directed flanges adapted to laterally engage with the flanges in said fixed rim channel, said second channel being provided with an inclined face along its one edge adapted to receive and support said rim; and clamp plates movably attached to said fixed rim channel and adapted to retain said rim in place on said second channel.

1,426,481. ARTIFICIAL HAND. HENRY G. KNOBEL, New Canaan, Conn. Filed Mar. 25, 1922. Serial No. 546,728. 3 Claims. (Cl. 3—12.)



1. An artificial hand comprising a wrist member, a body member comprising finger claws mounted rotatably on the wrist member, an arm extending from the member toward the wrist member and terminating adjacent thereto, a spring pressed plunger carried in the terminal of the arm, said wrist member provided with a plurality of indentures for receiving said plungers.

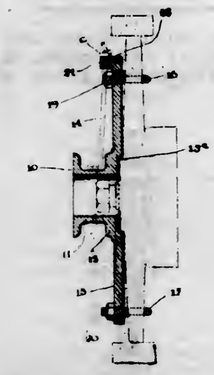
1,426,482. TOY. JOSEPH PETER KOLLAR, Chicago, Ill. Filed May 7, 1921. Serial No. 467,630. 2 Claims. (Cl. 46—14.)

1. A toy of the character described comprising a handle provided with a shank angularly bent at one end, a ring rotatably mounted upon the angular bent portion of the shank for rotation thereround, a second ring disposed within the first ring and normally extending in a plane at right angles thereto, the second ring being pivotally



mounted upon the first ring and being provided with a weight at one portion of its circumference, and figures attached to the second named ring.

1,426,483. PULLING DEVICE. CHARLES DAVID KRELL, Jacksonville, Fla. Filed Apr. 2, 1921. Serial No. 457,976. 3 Claims. (Cl. 242—95.)

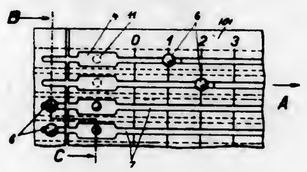


2. In a pulling device for use with automobiles or the like having a traction wheel, in combination with a cable having one end fixed, a winding drum including a hub and cheek plates, one of said cheek plates being arranged to abut the hub of the traction wheel, arms connected with said hub, securing means cooperating with the arms for securing the device in position on the wheel, and an eye carried by the outer end of one of said arms and having an opening receiving the free end of the cable, said cable being wound intermediate its ends on said winding drum.

1,426,484. INTEREST COMPUTER. OTTO KREMS, Innsbruck, Tirol, Austria. Original application filed Oct. 31, 1919, Serial No. 334,905. Divided and this application filed Sept. 14, 1920. Serial No. 410,274. 1 Claim. (Cl. 235—69.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

In an interest computer the combination of a box having a base in the shape of an oblique parallelogram

and subdivided into compartments arranged in vertical and horizontal series, guides in such compartments parallel to the base and one side of the box, such guides being open at one of the other sides of the box, slides adapted to move in such guides, a slide frame, vertical guide blocks equal in number to the compartments in a vertical series in the box in such slide frame and guides in such guide blocks such guides being open at the end next to the side of the box where the guides in the latter are open and their number in each guide block being equal to the number of guides in each compartment



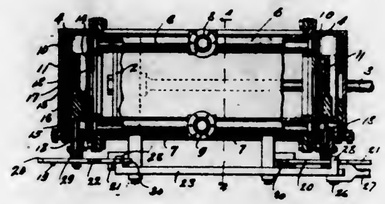
and the guides in the guide block being adapted to receive and guide the said slides, means for moving the slide frame along that side of the box where the guides in the compartments open whereby a guide block can be brought in front of any compartment of a horizontal series in the box, the guides in the compartment and in the guide block being in line with and opposite each other and means for pushing the slides in the compartments in the guides from the guides in the guide blocks and for adjusting them in the latter substantially as and for the purpose described.

1,426,485. MUSIC ROLL, PURSE, AND CARRYING BAG. JOSEPH P. LA ROCHE, Chicago, Ill. Filed Nov. 15, 1920. Serial No. 424,283. 1 Claim. (Cl. 190—44.)



In a music roll, purse and carrying bag, inner, outer and intermediate walls, the inner and intermediate walls being joined at their side and bottom edges, a U-shaped member corresponding in shape to the marginal edges of the walls and being stitched to the inner face of the outer wall adjacent its side and bottom edges, the inner marginal edge of the U-shaped member being stitched to the intermediate wall, thereby causing to be formed a plurality of widely distensible compartments, and at the same time providing bellows connections between the several walls, a plurality of sets of fastener members carried by the upper portion of the inner face of the inner wall, fastener members carried by the lower portion of the exterior face of the outer wall, a closure common for closing the several compartments and at the same time holding the lower half of the device folded when used as a music roll, said closure having fastener members common to both sets of fasteners carried by the inner and outer walls.

1,426,486. ENGINE VALVE MECHANISM. PETER LASSEN, Ocean Falls, British Columbia, Canada. Filed Jan. 14, 1919. Serial No. 271,093. 2 Claims. (Cl. 121—168.)



1. In a reciprocatory engine, the combination with an engine cylinder and crank shaft, of valve cylinders, hollow cylindrical valves mounted for oscillatory movement in said valve cylinders, cross arms fast on the stems of said valves, a reciprocatory valve operating rod driven by the engine shaft, springs for turning said valves in one direction, and triggers co-operating with said cross arms to hold the respective valves in one position, said triggers being adapted to be shifted by said operating rod to release said cross arms.

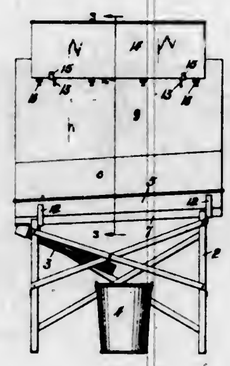
1,426,487. LAPEL BUTTON. RICHARD LAUX, Fort Wayne, Ind. Filed Apr. 29, 1922. Serial No. 557,457. 2 Claims. (Cl. 40—1.5.)



1. A lapel button comprising an open faced shell having an inturned perimeter; a pin having a bent end that extends loosely through the center of the shell; a plate, within the shell, having an aperture therein and fixed connection at its center on said pin; a series of portraits spaced apart and borne by the inner face of the shell, and adapted to be brought selectively into registration with said aperture so as to be exposed to view therethrough; and means in connection with the shell and plate tending to hold the shell in adjusted positions.

1,426,488. SANITARY WASHSTAND. DAVID A. LEINSETTER, Leipsic, Ohio. Filed Dec. 22, 1921. Serial No. 524,082. 2 Claims. (Cl. 45—38.)

1. A washstand of the class described, comprising a frame, a longitudinally inclined trough supported by the frame and having a drainage passage at the lower end of its incline, the bottom of the trough being slightly inclined downward and rearward from its front edge and the back of the trough being inclined upward and rearward from the rear edge of the trough bottom and a distance above and to the rear of the trough and then extending upright, the frame having rear upright members supporting the back, bracket-arms projecting from such members above the inclined back, a tank mounted



on the bracket-arms and having provision for discharging one or more streams of water therefrom down onto the inclined back of the trough near its lower edge.

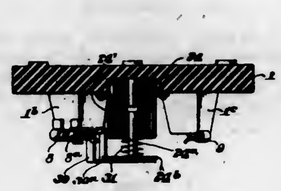
1,426,489. TRAFFIC SIGNAL. EUGENE LETOURNEAU, Springvale, Me. Filed Dec. 31, 1921. Serial No. 526,135. 13 Claims. (Cl. 116—47.)



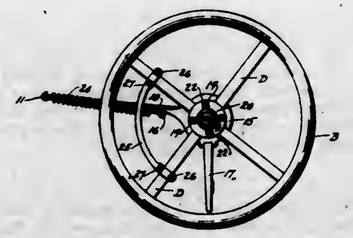
1. In a traffic signal, an indicator mounted for swinging movement in a horizontal plane, a stem rotatably mounted in the cap plug of the radiator and carrying said indicator, tension means for holding said stem normally in a position, whereby the indicator extends laterally of the radiator for indicating stop, said tension means being mounted in the cap plug of the radiator, actuating means, means operatively connecting the actuating means and the tension means in the cap plug for rotating the same, a rear traffic signal mounted for swinging movement in a direction laterally of the automobile, and means connecting the rear signal and said operative connecting means between the actuator and said tension means, whereby the rear signal may swing to give a signal corresponding to certain of those given by the forward indicator.

1,426,490. ELECTRIC-LIGHTING MECHANISM. HENRY G. LEWIS and WALTER S. MAYER, Philadelphia, Pa., assignors to Electric Service Supplies Company, a Corporation of Pennsylvania. Filed Mar. 12, 1920. Serial No. 365,148. 3 Claims. (Cl. 175—374.)

1. In an electric lighting mechanism, the combination of an insulating base provided with a pair of insulating projections, a lamp socket holder, a skeleton frame for fixing said holder to said base, a lamp socket carried by said holder, an electro-magnetic coil fixed to said base, an armature for said coil, a pair of conducting devices fixed to one of said projections, conductors connecting said devices through said socket and coil, a pair of conducting devices fixed to the other of said projections and adapted to be connected by said armature, and conductors for connecting said devices serially through said armature in parallel relation with said coil and socket.

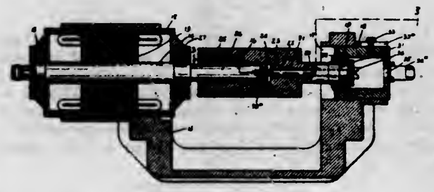


1,426,491. SELF-STEERING ATTACHMENT FOR TRACTORS. LESLIE J. MATHSON, Black River Falls, Wis. Filed Dec. 19, 1921. Serial No. 523,381. 6 Claims. (Cl. 74—33.)



1. In combination with the steering wheel of a tractor, a member rotatable with respect to the wheel and provided with a hook and a pivoted pawl, a notched segment carried by the wheel with which said pawl cooperates, and a spring having one end secured to a stationary element of the tractor and having its other end detachably connected with said hook.

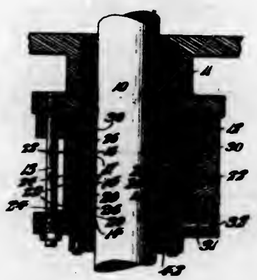
1,426,492. REMOVABLE CUTTER HEAD FOR MOTOR-DRIVEN MOLDERS. GLENN H. MATTHEWS, Indianapolis, Ind., assignor to Anton Vonnegut, Indianapolis, Ind. Filed Mar. 17, 1922. Serial No. 544,524. 3 Claims. (Cl. 144—131.)



1. A bearing support, a cutter head, a spindle carried by said support and extending into said cutter head, a bearing support for said cutter head, and means extend-

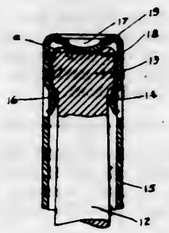
ing through the opposite end of said cutter head from said spindle and through said latter bearing support for causing said spindle to be locked within said cutter head.

1,426,493. METALLIC PACKING. ALFRED DILLON MORRIS, Philadelphia, Pa., assignor to The Morris Metallic Packing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 1, 1920. Serial No. 393,439. 4 Claims. (Cl. 286—24.)



1. In a metallic packing, a segmental packing ring, means for yieldingly holding said ring assembled as a unit, a supplemental pressure breaking ring encircling and floating about said packing ring, and a case having a groove to receive both of said rings.

1,426,494. TOP-BEARING-CASTER SOCKET. WILLIAM H. NOELTING, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Sept. 9, 1921. Serial No. 499,428. 3 Claims. (Cl. 16—43.)



1. A caster, including a stem having a head portion provided with a spherical depression positioned centrally therein, and a caster socket for said stem provided with an integral inwardly extending spherical projection for receiving said stem and being seatable in said spherical depression, the radius of curvature of said socket spherical projection being greater than the radius of said tubular socket.

1,426,495. TOWEL HOLDER. WILLIAM NORMAN, Padroni, Colo. Filed Jan. 21, 1921. Serial No. 438,918. 2 Claims. (Cl. 45—32.)

1. A towel holder comprising a support, and a resilient spring grip member bent centrally of its ends to provide a pair of proximately positioned finger engaging loops, the planes of which are disposed in converging relation, the ends of said spring grip being affixed to the support at a



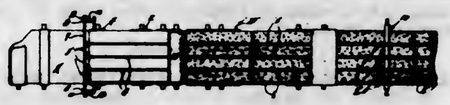
point remote from said loops, whereby the most proximate portions of said loop will be normally forced toward said support.

1,426,496. CENTER-DRAIN TURNTABLE. HENRY M. NORRIS, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 2, 1921. Serial No. 458,091. 6 Claims. (Cl. 77—63.)



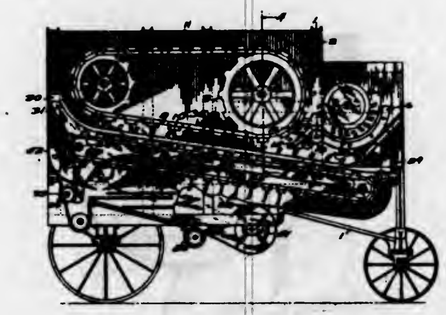
1. A work-table comprehending individual drain-passages having the shape of conventional T-slots and converging toward a common point; and a single downward drain-passage located at said point, said drain-passage being enlarged at its upper end to communicate with the inner ends of said drain-passages and into which they may discharge the fluids.

1,426,497. METHOD OF MAKING STRIP SHINGLES. OSE K. OUTMAN, Richmond, Calif., assignor to Certain-Teed Products Corporation, St. Louis, Mo., a Corporation of Maryland. Filed Sept. 14, 1921. Serial No. 500,671. 4 Claims. (Cl. 91—67.9.)



1. The method of making strip shingle which comprises applying adhesive material to a sheet of roofing material, forming channels in the adhesive material, depositing granular material on the adhesive material and in the channels therein, embedding the granular material on the adhesive material between the channels, removing the loose granular material from the channels, and cutting the sheet transversely of the channels to form strip shingles.

1,426,498. THRASHER. FLETCHER OWEN, Toledo, Ohio, assignor to F. Newton Owen, Toledo, Ohio. Filed Feb. 10, 1921. Serial No. 443,769. 8 Claims. (Cl. 130—27.)



1. In a threshing machine, a pair of belts having prongs, a grid located between the belts and having spaces through which the prongs of one of the belts extend and move in operative relation to the prongs of the other belt.

1,426,499. SINGLE-COLUMN SELECTOR FOR CARD-SORTING MACHINES. RALPH EUGENE PAGE, Binghamton, N. Y., assignor to The Tabulating Machine Company, a Corporation of New Jersey. Filed June 11, 1921. Serial No. 476,961. Renewed Jan. 16, 1922. Serial No. 529,448. 10 Claims. (Cl. 83—92.)



1. In a single column selector for card sorting machines, the combination with two terminals adapted for connection with the sorting mechanism, of a movable brush connected with one terminal and adapted to complete one cycle of movement while a card is passing through the sorting machine, a series of evenly spaced contact blocks over which the brush passes, an overlying series of contacts electrically connected with the other terminal normally out of engagement with said blocks, and means for connecting up any or all of said contacts and blocks whereby circuit paths between the said terminals will be completed through the said connected contacts.

1,426,500. CONTAINER. LYNDON C. PALMER, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Buffalo, N. Y., a Corporation of Ontario, Canada. Filed Mar. 7, 1916, Serial No. 82,521. Renewed Dec. 31, 1921. Serial No. 526,414. 7 Claims. (Cl. 229—5.5.)

1. A container comprising, in combination, a paper body, a stiffening cap-supporting ring on the container adjacent its mouth, and a cover over said ring comprising a flexible strip thinner than the body material attached to the container above and below the ring and conforming to the peripheral face of said ring at the upper, lower, and inwardly presented faces of said ring.

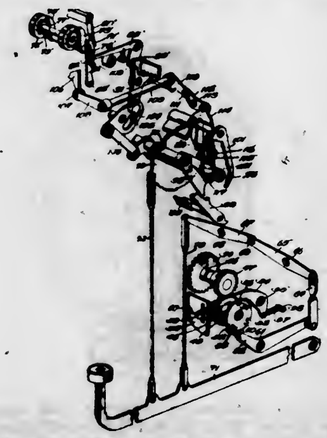


1,426,501. CAP FOR GASOLINE OR SIMILAR RECEPTACLES. FRANK PARIZEK, Chicago, Ill. Filed Mar. 24, 1921. Serial No. 454,993. 6 Claims. (Cl. 229—44.)



1. A cap of the character described comprising a cylindrical side wall portion screw-threaded for a portion of its length, and a closed end portion providing a hollow cross rib, said end portion being provided with a circuitous passage providing a vent for said cap.

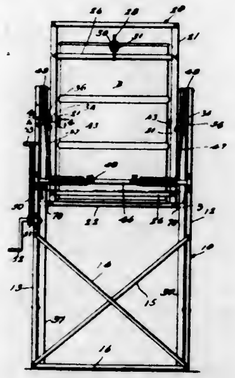
1,426,502. TOTALIZER CLEAR SIGNAL. ARTHUR F. POOLE, Kenilworth, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 17, 1919. Serial No. 338,442. 11 Claims. (Cl. 235—59.)



7. In a calculating machine, the combination of a traveling carriage, a series of numeral keys, a clearance

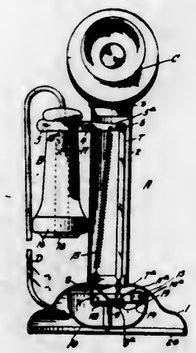
proof key, and means controlled by said carriage at a predetermined point in its travel to lock said numeral keys and to unlock said clearance proof key, said means normally maintaining said clearance proof key locked.

1,426,503. HOISTING DEVICE. MOLTON D. POTTER, Sioux Falls, S. Dak.; Albert M. Freeman Special Agent of the Estate of said Molton D. Potter, deceased, assignor to W. E. Dibble, Sioux Falls, S. Dak. Filed Jan. 11, 1921. Serial No. 436,520. 7 Claims. (Cl. 214—120.)



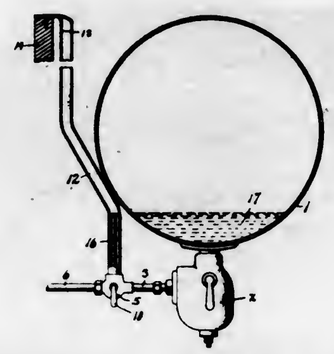
1. An apparatus of the class described comprising a frame inclusive of spaced parallel sides and means connecting the sides, a pair of upright guides secured to the sides of said frame, a cradle having trunnions provided with eyes slidable on said upright guides, pulleys connected to said sides, flexible elements connected to said trunnions and trained over said pulleys, a drum carried by said frame and constituting a stop element for limiting the swinging movement of said cradle, said flexible elements being connected to said drum, an operating device for said drum, and means whereby said drum may be held in a set position.

1,426,504. TOY TELEPHONE. JOSEPH RENTSCHER, Chicago, Ill. Filed Mar. 6, 1922. Serial No. 541,454. 9 Claims. (Cl. 46—46.)



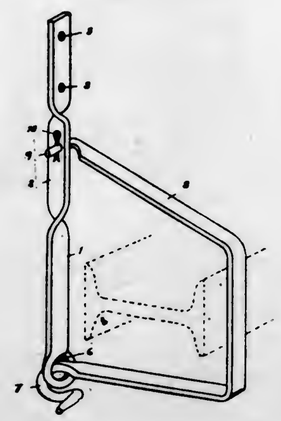
1. In a toy telephone, a columnar desk transmitter Stand, a receiver hook pivoted upon said stand, a receiver mountable on said hook, a bell within the stand, and means within the stand and actuated by the movement of said hook to ring the bell.

1,426,505. FUEL-TANK CONTROL VALVE. WILBERT C. REPLOGLE, Detroit, Mich. Filed Jan. 12, 1920, Serial No. 351,082. Renewed June 21, 1922. Serial No. 569,874. 4 Claims. (Cl. 158—46.5.)



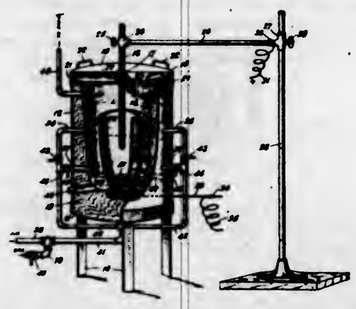
1. A fuel tank control valve having inlet and outlet passages and a valve plug to connect and disconnect these passages, a stand pipe extending upwardly from the valve and a passage connecting the pipe to the inlet passage, and a control tube extending up within the stand pipe and a passage connecting the control tube to the outlet passage of the valve.

1,426,506. BRAKE-BEAM HANGER. CHRISTIAN F. RETZER and CHARLES LEGARD, Superior, Wis. Filed June 6, 1921. Serial No. 475,273. 3 Claims. (Cl. 188—210.)



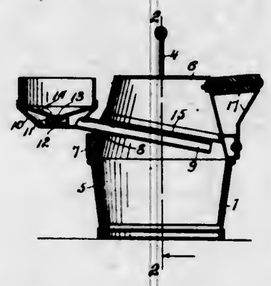
2. An auxiliary safety support for a brake beam of the character described comprising a depending rigidly fixed member disposed adjacent one side of the brake beam and having an eye formed in the lower end thereof, a stirrup like member surrounding the brake beam with a ramshorn or helical terminal at one end and engageable within said eye with the opposite end removably attached to the member, substantially as and for the purpose described.

1,426,507. SMELTING AND ELECTROLYZING PROCESS. RICHARD RODRIAN, New York, N. Y., assignor to Rodrian Electro-Metallurgical Co. Incorporated, a Corporation of Delaware. Filed Mar. 3, 1922. Serial No. 540,730. 3 Claims. (Cl. 204—19.)



1. The herein-described process which consists in first smelting a charge of metal-containing material above a body of suitable molten metal and then electrolyzing the molten charge by the passage of an electric current, the said body of molten metal being used as the cathode.

1,426,508. COMBINED MILK PAIL AND STOOL. GEORGE L. ROLLINS, Kansas City, Mo. Filed Aug. 9, 1920. Serial No. 402,402. 12 Claims. (Cl. 31—14.)



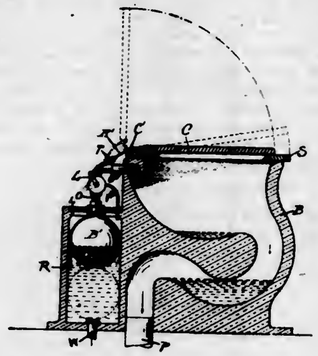
1. In a device of the kind described, a pail having two ears, a stool comprising an inverted bucket mounted in and arranged to cover the pail and having two slots adapted to respectively receive therethrough said ears, and a bail engaging said ears and releasable from the ears and arranged to hold the ears from passing out of said slots, substantially as set forth.

8. In a device of the kind described, a milk receiving vessel having a discharge opening, a false bottom above said opening, and a milk container, the false bottom having an opening which discharges into said container, and a float valve in said container adapted to close said last named opening, substantially as set forth.

11. In a device of the kind described, a milk receiving vessel having at one side a lateral opening, and a weighted counterbalancing handle at the opposite side thereof, and a milk receiving vessel having a discharge spout mounted in said opening, substantially as set forth.

1,426,509. FLUSHING TANK. FLETCHER C. ROOD, Walla Walla, Washington. Filed Dec. 30, 1918. Serial No. 268,892. 13 Claims. (Cl. 4—5.)

12. A closet bowl formed with a bowl portion and with a separate reservoir portion at one side thereof and below the top thereof and communicating at its top with the top of said bowl portion, means for supplying water



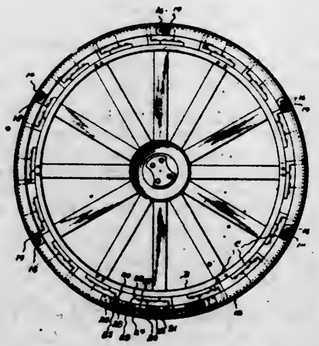
to said reservoir, a valve mechanism interposed to control the flow of water through said reservoir and to said bowl, and means for operating said valve mechanism.

1,426,510. TIRE-CHAIN FASTENER. BERNHARD SANDBERG, French Lake, Minn. Filed Jan. 23, 1922. Serial No. 531,071. 3 Claims. (Cl. 24—68.)



1. A fastener consisting of a body member, including spaced plate portions integrally formed at one end, a lever pivoted between said plate portions, said body and lever having longitudinal slots and passages leading thereto adapted to receive a chain link when the lever is in open position and lock the link in the fastener when in closed position, said slot in the lever being slightly shorter at its fore end than the corresponding slot in the body member so as to bring the stress of said link primarily on the lever.

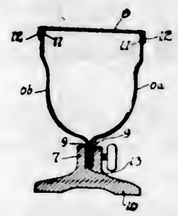
1,426,511. DEMOUNTABLE TRACTOR RIM FOR HARD SURFACES. MARTIN SANDERFIELD, Athens, Ill. Filed July 16, 1921. Serial No. 485,282. 3 Claims. (Cl. 301—39.)



2. A demountable rim for traction wheels formed of a plurality of transverse U-shaped sections, the sections having pivotal engagement with each other and each section having a smooth tractive tread surface, the sections

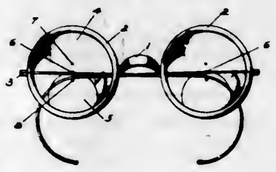
on each side of the joint of said rim and on each side wall thereof having attached thereto longitudinally extending plates, each plate at its end adjacent the joint being outwardly and rearwardly bent and formed with an elongated aperture, each plate rearward of this flange being formed with an apertured V-shaped flange and rearward of this flange being outwardly bent and then inclined inward toward the side wall of the section and then attached thereto, the outwardly bent portion being perforated, a curved bolt on each side of the rim passing through the perforations of all of said flanges, and nuts on said bolt engaging the V-shaped flanges.

1,426,512. SECTIONAL MOLD. JOSEPH SCHIFFHAUER, Chicago, Ill. Filed Sept. 21, 1921. Serial No. 502,093. 5 Claims. (Cl. 18—34.)



1. A mold comprising sections, a stand arranged to clamp said sections together, and means for aligning said sections, said aligning means cooperating with the stand to prevent displacement of the sections therefrom.

1,426,513. OPHTHALMIC LENS. CHARLES SHEARD, Sturbridge, and EDGAR D. TILLYER, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts. Filed Dec. 15, 1920. Serial No. 430,913. 4 Claims. (Cl. 88—54.)



1. A bifocal lens having its centers disposed on opposite sides of the dividing line between the two vision portions and separated a distance slightly greater than the diameter of the pupil of the eye.

1,426,514. OVERHEAD SUPPORTING DEVICE FOR THE DRIVING SHAFTS OF GYRATING MACHINES. SIMON SNYDER, Muncy, Pa., assignor to Sprout, Waldron & Company, Muncy, Pa., a Corporation of Pennsylvania. Original application filed June 28, 1918. Serial No. 242,456. Divided and this application filed Oct. 28, 1919. Serial No. 333,918. 4 Claims. (Cl. 64—48.)

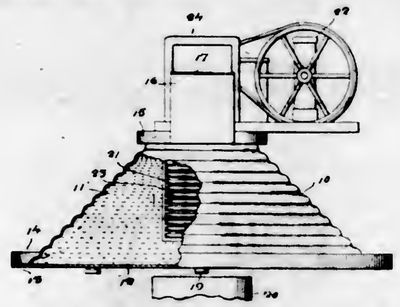
4. An overhead supporting device and anti-friction bearings associated therewith for suspending the driving shaft of a gyratory bolting machine so as to permit a universal rotary and swinging movement of the shaft about its axis, comprising a bracket having a pendant tubular portion of inverted cup-like form, a subjacent cup-like bracket member secured to said tubular portion and having an opening in its bottom larger than and through which the shaft extends, annular radial and end-thrust bearings on the shaft within said tubular portion supported upon said subjacent cup-like bracket member, and means on the shaft pressing on and serving to confine said bearings in separated relation between said means and said subjacent cup-like bracket member; said radial thrust bearing consisting of concentric rings and interposed balls with the outer ring slidably arranged in said tubular portion and the bearing surfaces of the two rings constructed to permit both rotary and a swinging movement



of the shaft and said end-thrust bearing consisting of upper and lower rings and interposed balls, and a base ring supported on said subjacent cup-like bracket member on which said lower ring rests; the under side of said lower ring being of spherical form and seated upon a correspondingly shaped spherical surface of said base ring

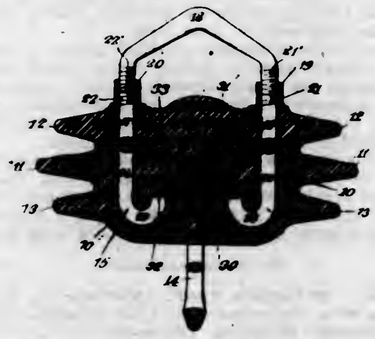
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1,426,515. MILK-COOLING APPARATUS. HARRY M. SPERCHER, Ephrata, Pa. Filed June 14, 1919. Serial No. 304,214. Renewed Nov. 23, 1921. Serial No. 517,379. 2 Claims. (Cl. 257—179.)



2. A milk cooling apparatus comprising a fluid containing vessel, cooling means submerged in the fluid for maintaining the fluid at a low temperature, a hollow annulus surrounding said vessel adjacent one end, a milk reservoir supported by said annulus and communicating with the latter, and said annulus having openings for distributing the milk over the surface of said vessel to be cooled.

1,426,516. INSULATOR. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Apr. 29, 1918. Serial No. 231,386. 8 Claims. (Cl. 173—366.)



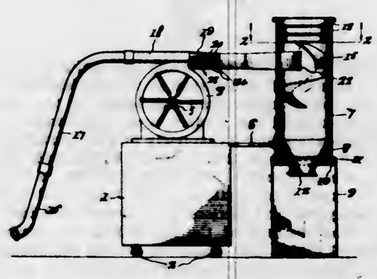
3. In a device of the kind described, an insulating member, strain members embedded therein, said strain

members each having leg portions and a bridge element therebetween embodying a ring shaped portion, the leg portions being offset from said ring shaped portion, each of the leg portions being provided with oppositely projecting arms in substantially the same horizontal plane with the ring portion of the adjacent strain member and extending in a curved line concentric with the ring portion, the distance between the extending arms and the ring portion being less than the distance between the ends of the extending arms and leg portions of the adjacent strain member.

1,426,517. NONPYROPHORIC CATALYSTS AND PROCESS FOR EFFECTING CATALYTIC REACTIONS THEREWITH. NATHAN SULZBERGER, New York, N. Y. Filed Sept. 11, 1916. Serial No. 119,553. 3 Claims. (Cl. 87—12.)

1. In the art of effecting catalytic reactions, the step which comprises bringing together hydrogen and oil to be hydrogenated in the presence of a black non-pyrophoric magnetic catalytically active reduction product of a reducible nickel compound, reduced in a wet way and in the presence of a metal of the platinum group, said product containing the nickel and the metal of the platinum group in an intimate state of combination; substantially as described.

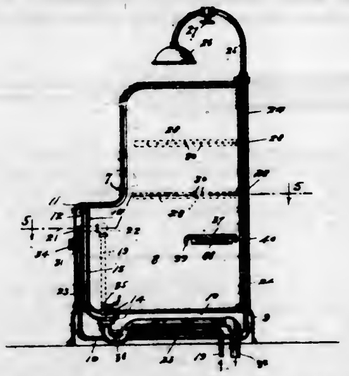
1,426,518. AIR-INDUCTION CLEANING APPARATUS. ROBERT P. SWEENY, Union, S. C. Filed Aug. 18, 1921. Serial No. 493,260. 5 Claims. (Cl. 230—35.)



1. In air induction cleaning apparatus, an elongated hollow member of substantially Venturi tube formation, said member having a partition in one end dividing said end into an upper induction chamber and a lower induction nozzle, said chamber and nozzle each being substantially cylindrical in cross section at their outer ends for attachment to pipes and the like, and gradually merging at their inner ends into substantially rectangular cross-section with the partition forming a common relatively broad wall whereby a column of air issuing from the induction nozzle into the member is adapted to contact with the column of air issuing from the induction chamber throughout a relatively wide area for effecting a rapid and forceful feeding of the air from the induction chamber, substantially as described.

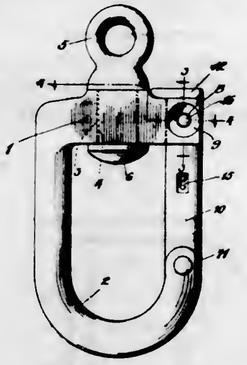
1,426,519. BATHTUB. THOMAS J. SWIFT, Minneapolis, Minn. Filed Mar. 14, 1921. Serial No. 452,272. 1 Claim. (Cl. 4—27.)

A self-contained, upright, cylindrical, monolithic bath tub having a radial extension of less width than the diameter of said tub and terminating below the top thereof to provide an entrance, said tub having a hollow base and said radial extension comprising spaced front and rear walls providing a compartment communicating with said hollow base for the installation of water supply fittings, whereby the controls for said fittings may be positioned



on said outer wall of said radial extension and adapted for operation outside of said tub, substantially as described.

1,426,520. COMBINATION SWIVEL AND BULL HOOK. LOUIS K. SYRSTAD, Shelton, Wash. Filed Feb. 1, 1922. Serial No. 533,436. 1 Claim. (Cl. 24—241.)



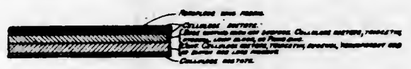
A hook including a base portion, an eye swiveled in the base portion, a hook portion extending from the base portion and integral therewith at one end, the free end of the base portion being bifurcated, an arm pivoted to the end of the hook portion and formed at its free end with a head, said arm fitting in the bifurcation in the base portion and the head thereon overlying substantially the whole of the free end of the base, and a spring pressed latch carried by the arm for engagement in an opening in the end portion of the base for locking the arm in cooperative relation with the base.

1,426,521. PROCESS FOR DIMINISHING THE VISIBILITY OF OBJECTS. THEODORE FRANÇOIS TESSE, St.-Ouen, France, assignor to Societe Nauton Freres & De Marsac, St.-Ouen, Seine, France, and Theodore François Tesse, Paris, France. Filed June 24, 1918. Serial No. 241,085. 13 Claims. (Cl. 91—68.)

2. A process for diminishing the visibility of objects and preventing their being picked up by an artificial beam of light, consisting in applying a ground coat composed of dark coloured opaque pigments, of blue to black shades, incorporated in a vehicle capable of producing a film-coating; and then applying a transparent coat carrying

a red lake, the colors of such two coats being such as to substantially lower the visibility of the object coated.

13. A coated aeroplane fabric comprising a fabric base, a coating composed of a dark colored, matte, opaque

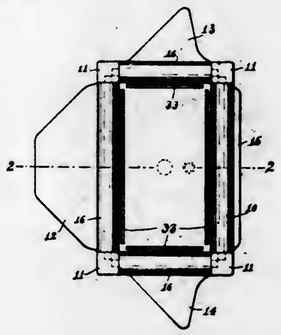


coating composition; and a plurality of successive superposed coats of transparent to translucent monochromatic, differently colored coating compositions, which are capable of absorbing respectively the various rays of which a beam of light is composed.

1,426,522. STABLE, DRY, AND READILY-SOLUBLE VAT PREPARATIONS AND PROCESS OF MAKING SAME. KARL THIESS, Sindlingen, near Hochst-on-the-Main, and FRITZ MAENNCHEN, ADOLF STEINDORFF, and FRANZ GILOY, Hochst-on-the-Main, Germany, assignors to Farbwerke vorm. Meister Lucius & Bruning, Hochst-on-the-Main, Germany, a Corporation of Germany. Filed Aug. 23, 1921. Serial No. 494,714. 6 Claims. (Cl. 8—6.)

1. As a new process, the herein described manufacture of stable, dry and readily soluble vat-preparations from quinone vat dyestuffs for wool and indigo, which comprises evaporating to dryness an aqueous mixture of an alkali leuco-salt of the quinone vat dyestuffs and an alkali salt of leuco indigo.

1,426,523. ART OF ENVELOPE MANUFACTURE. JOSEPH M. TOWNSEND, Worcester, Mass., assignor of one-half to Wallace E. Freeman, Worcester, Mass. Filed Jan. 6, 1922. Serial No. 527,399. 3 Claims. (Cl. 93—67.)



1. In an envelope folding device, a support, movable members adapted to act upon an envelope blank to fold the same, a movable suction member having suction apertures extending along the lines of proposed fold, said block being movable to a position to attach the blank by suction, then movable with the attached blank, to cause a wiping action on portions of the blank to initiate the folding operation.

1,426,524. ELEVATOR. SAMUEL JAMES TRITT, Carlisle, Pa. Filed Sept. 22, 1919. Serial No. 325,358. 2 Claims. (Cl. 198—154.)

1. An elevator of the character described comprising an angular supporting frame having a vertical portion and a horizontal portion, a pair of sprocket wheels disposed at the lower end of the vertical portion, a pair of sprocket wheels disposed at the upper end of the vertical portion, a pair of sprocket wheels disposed at the outer end of the horizontal portion, oppositely disposed sprocket wheels mounted upon the frame inward of and below the upper sprocket wheel, a pair of connected sprocket chains passing around the first three pairs of sprocket wheels and over the last named pair of sprocket wheels, cross bars connecting said sprocket chains at intervals, carriers pivotally mounted upon said cross bars and including supporting bars mounted on the outer end of each carrier and extending at an acute angle thereto and abutting against the sprocket chains, said supporting bars bearing



against the chains and supporting the bodies of the carriers at an upward inclination as the carriers move upward and being longer than the bodies of the carriers whereby to support the carriers at an acute angle to the chains, rods extending transversely of and carried by the chains and disposed at close intervals behind said carriers to form a back therefor, side plates attached to the vertical and horizontal portions of the frame and between which side plates the carriers move upward and outward, corner plates disposed at the junction of the horizontal and vertical plates, and means for driving the lowermost sprocket wheel to thereby operate the sprocket chains.

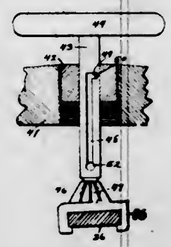
1,426,525. BLOOMERS. HATTIE MYRA WALSH, San Francisco, Calif. Filed Apr. 6, 1921. Serial No. 458,952. 2 Claims. (Cl. 2—122.)



1. A garment comprising a pair of bloomers having an opening in the crotch thereof; a separate strip arranged to cover said opening and having the ends only thereof secured to the front and rear portions of said garment whereby the intermediate portion of said strip may be

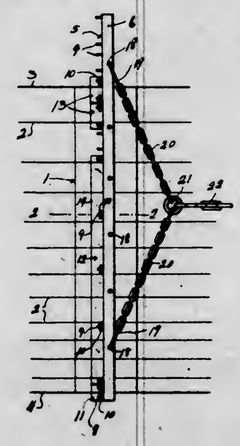
isolated from other portions of said garment and washed separately therefrom; and means for imparting sufficient rigidity laterally to said strip to tend to prevent creasing and folding thereof whereby said strip may be prevented from entering the inter-gluteal fold of a wearer.

1,426,526. WRINGER. ROY A. WATKINS, Clarinda, Iowa, assignor, by mesne assignments, to Edwin Lisle, Clarinda, Iowa. Filed Oct. 14, 1920. Serial No. 416,071. 2 Claims. (Cl. 68—32.)



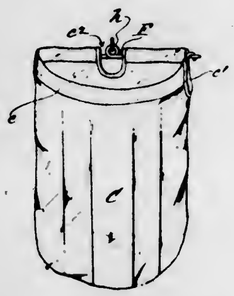
2. In a wringer mechanism, a frame, rolls carried thereby, a tension member in said frame engaging said rolls, a member threaded in said frame, a stem adapted for sliding movement in said member and engaging said tension member, said stem being formed with a vertical groove having a seat extending laterally therefrom, and a connecting member in said threaded member adapted to traverse said groove and also adapted to enter said seat and form an operative connection between said stem and threaded member and also prevent sliding movement of said stem.

1,426,527. WIRE-FENCE CLAMP. LYNN E. WELLER, Macy, Ind. Filed Aug. 13, 1921. Serial No. 492,205. 2 Claims. (Cl. 254—83.)



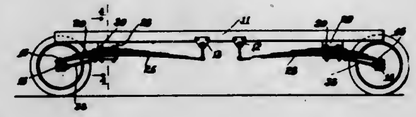
1. A clamp for wire fences comprising a pair of bars one of which is constructed of a plurality of independent sections and provided with a shoulder, the second bar having one edge arranged to force the fence wires against said shoulder, a stretcher member secured to the opposite edge of said second bar, and removable pivotal connections between the second bar and the sections of the first bar at a point intermediate the edges of the second bar.

1,426,528. BAG HOLDER. FRANK R. WHITE, Montclair, N. J. Filed Dec. 24, 1921. Serial No. 524,596. 1 Claim. (Cl. 83—26.)



A bag holder consisting of a single piece of wire bent so as to form a straight back portion with a single central coil, and a curved front portion; said back and front portions each having a curved or hooked end portion adapted to interlock, and said central coil being adapted to aid in supporting said holder.

1,426,529. VEHICLE SUSPENSION. WILLIAM R. WILLIAMS, New York, N. Y. Filed Jan. 22, 1912. Serial No. 672,768. 6 Claims. (Cl. 267—19.)



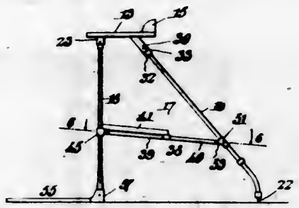
2. A vehicle suspension including leaf springs composed each of two sections of unequal lengths arranged at opposite sides of the vehicle in cooperative relation with the body thereof and an axle, and means adapted to transmit stress from one to another of the shorter sections of said springs.

1,426,530. LOCK NUT. HERMAN J. ZOTTEL, Milwaukee, Wis. Filed Apr. 25, 1919. Serial No. 292,569. 2 Claims. (Cl. 151—21.)



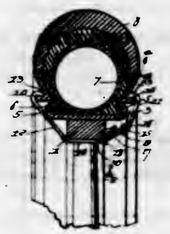
1. A lock nut comprising a plate with a threaded bolt hole and locking pawls integral therewith, the locking pawls being formed by cutting from the plate a portion of the material adjacent the bolt hole and sharply depressing the same at the attached end thereof, so that the free end of the locking pawls is rendered readily compressible while the attached end thereof is comparatively incompressible.

1,426,531. PIPE VISE STAND. James E. Allenson, Washington, D. C. Filed Mar. 31, 1921. Serial No. 457,405. 13 Claims. (Cl. 45—11.)



1. In a collapsible vise bench, a supporting frame including legs of unequal length pivotally connected at spaced points to said bench, the legs being so arranged and their connection with the bench being such that when the legs are moved into parallel planes their lower ends will be substantially even.

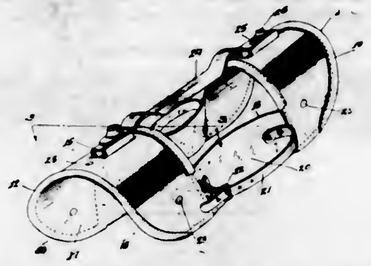
1,426,532. CLAMP FOR PROTECTING TIRES. Charles W. G. Allender, Denver, Colo. Filed Dec. 3, 1921. Serial No. 519,629. 2 Claims. (Cl. 152—17.)



1. As an article of manufacture, a clamp for tire protectors, comprising dominant and auxiliary clamp sections, the remote ends of which being provided with means for engagement with the opposite clincher flanges of the tire protector, the dominant clamp section being U-shaped and adapted to straddle the spoke of a wheel, a clasp having a portion of a width equal to the space between the sides of the U-shaped clamp section, said clasp having pintles, the sides of the U-shaped clamp section having bearings for the reception of said pintles, the auxiliary clamp section having spaced hooks, said clasp having a reduced portion of a width equal to the space between said hooks, said clasp having shoulders caused to be formed by the reduced portion and being engaged by said spaced hooks, whereby upon moving the clasp so that its reduced portion may engage the felly of the wheel, the shoulders with the hooks engaged therewith may assume positions between the fulcruming pintles and the felly, to draw the clamp sections tightly in position and hold the tire protector secured in place.

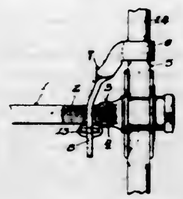
1,426,533. COLLAR SADDLE. Henry G. Anderson, Inwood, Iowa. Filed Sept. 6, 1921. Serial No. 498,636. 4 Claims. (Cl. 54—67.)

4. The combination with a harness having a collar, of a neck saddle for supporting said collar, said saddle comprising a pair of spaced saddle members of stiff material fitting over the neck of the animal, a lining of harness leather for the under side of said members provided with a central opening, an anchoring element of stiff material for each member rigidly attached thereto, a steel bar raised above said members and provided with slots adjacent its ends, said anchoring element having corresponding apertures and bolts being provided for engaging in said slots and apertures, a pair of flexibly united plates with suitably threaded holes for said bolts, and straps secured to said lining intermediary



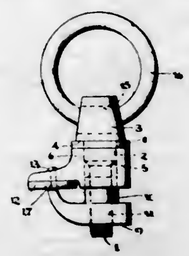
of said saddle members, said straps being adapted to engage said collar to hold the collar and the neck saddle together.

1,426,534. WHEEL-LOCKING DEVICE. Howard A. Baker, El Paso, Tex. Filed May 2, 1921. Serial No. 466,066. 12 Claims. (Cl. 70—90.)



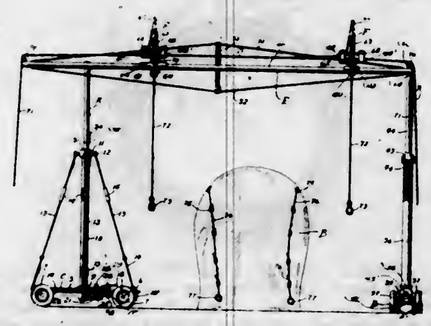
1. An automobile locking device comprising a bar having a shank portion, and a wheel engaging portion at one end, said shank portion being insertable between nonrotative parts of the axle, and the wheel engaging portion in locking connection with a wheel, and means for locking said bar in wheel locking position.

1,426,535. ROPE OR STRAP FASTENER. Edward Devere Barton, Canon City, Colo. Filed Dec. 8, 1921. Serial No. 521,004. 8 Claims. (Cl. 24—263.)



1. A device of the character described comprising an adjusting member having a shank provided with a head portion, a jaw member having a bore adapted to receive the shank and being disposed thereon adjacent to the head portion, a second jaw member threadedly engaging said shank adjacent to the end of the latter and being adapted to cooperate with said first named jaw member, and a locking device arranged between said head portion and said first named jaw member for holding the latter against movement away from said second named jaw member.

1,426,536. FUMIGATING APPARATUS. St. Elmo Bateman, Los Angeles, Calif. Filed July 29, 1920. Serial No. 399,640. 12 Claims. (Cl. 212—140.)



1. In a tree fumigating apparatus, a pair of spaced trucks, an overhead frame carried by the trucks, means rotatably connecting one end of the frame to one truck whereby the other truck can move around the first truck as a pivot, outwardly extending adjustable arms carried by the frame, and a hoisting and lowering apparatus carried by the adjustable arms.

1,426,537. CORDAGE HITCHING DEVICE. Christopher W. Bauer, Brooklyn, N. Y. Filed Mar. 31, 1922. Serial No. 548,290. 2 Claims. (Cl. 24—130.)



1. As an article of manufacture, a cordage hitch plate with eyelet holes at one edge, oppositely extended slots at opposite edges, and a bight recess at an edge, one of said eyelet holes having an open-ended inlet thereinto to facilitate the insertion of the cordage.

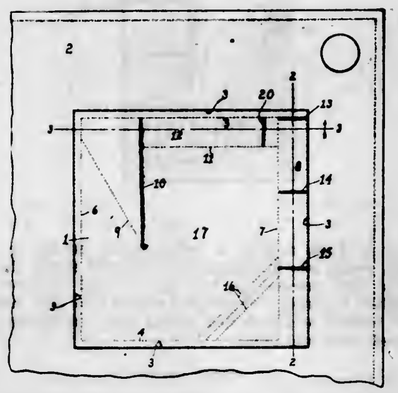
1,426,538. STIFFENING MATERIAL FOR SHOES. George W. Bernauer, St. Charles, Mo. Filed Nov. 8, 1920. Serial No. 422,448. 5 Claims. (Cl. 91—68.)



1. A stiffener for parts of shoes consisting of a suitably shaped blank of absorbent material impregnated with a stiffening composition, comprising resin, glue and white lead, which renders said blank substantially inflexible when dry and softens upon application of a degree of heat insufficient to injure the leather of the shoe.

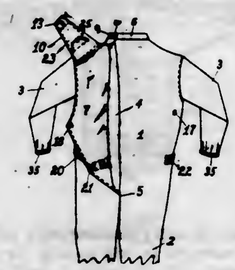
4. A stiffener for parts of shoes consisting of a suitably shaped blank of absorbent material impregnated with a stiffening composition, comprising shellac, glue and white lead, which renders said blank substantially inflexible when dry and softens upon application of a degree of heat insufficient to injure the leather of the shoe.

1,426,539. POCKET. Isaac Bernstein, Alameda, Calif. Filed Sept. 16, 1919. Serial No. 322,970. 2 Claims. (Cl. 2—15.)



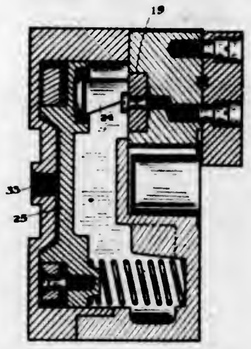
1. A pocket including a single piece of fabric sewed to a garment and forming a main pocket compartment, a horizontal compartment and a vertical compartment, said piece of fabric being formed with a single slit providing entrance to both the main compartment and the horizontal compartment, said piece of fabric having a plurality of slits forming entrances to said vertical compartment at different heights.

1,426,540. UNION OVERALLS. Isaac Bernstein, Alameda, Calif. Filed Sept. 18, 1919. Serial No. 324,531. 4 Claims. (Cl. 2—144.)



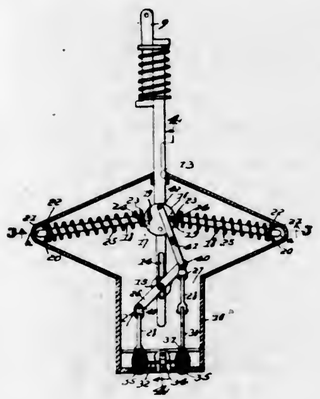
1. Overalls including a body, trousers, and sleeves, the body being formed with an entrance in the back extending from the crotch to the collar, a single flap for closing said entrance, a suspender strap at the upper corner of said flap extending over a shoulder of the wearer, and means for fastening said strap to the front of the garment.

1,426,541. CHUCK. DAVID LOGAN BISSET, Montreal, Quebec, Canada, assignor to P. Lyall & Sons Construction Company, Limited, Montreal, Quebec, Canada. Filed Nov. 22, 1920. Serial No. 425,891. 1 Claim. (Cl. 279—4.)



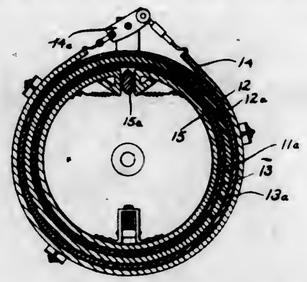
In a chuck, a body, a reciprocating member in said body, wedge pins extending forwardly and having flanged inner ends recessed in the face of said reciprocating member, a keeper ring screw-threaded into said recesses and holding said pins and sliding jaws operatively connected with said pins.

1,426,542. FOOT-OPERATED SWITCH-THROWING MECHANISM. JOHN W. BLIZNIK, Detroit, Mich. Filed Apr. 3, 1922. Serial No. 549,052. 5 Claims. (Cl. 246—318.)



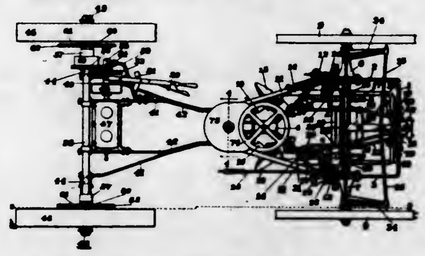
1. In a switch throwing mechanism, a switch point, a housing, a bar mounted in said housing for reciprocating movements therein and connected to said switch point, compound tensioning means cooperatively connecting with said bar and holding it at the limit of its movements in either direction, thereby holding the switch point open or closed, said bar having a slot therein, an oscillating bar having its pivot passing through said slot to guide the reciprocating bar, and means operatively connecting with each end of the oscillating bar, which in turn has means operatively connecting with the reciprocating bar for actuating the same to throw the switch point.

1,426,543. BRAKE. WILLIAM T. BONNER, Trenton, N. J., assignor to Max Brown, Boston, Mass. Filed Feb. 11, 1920. Serial No. 357,780. 5 Claims. (Cl. 188—218.)



1. Braking apparatus, comprising a rotative braking element having an exterior face and an interior face of relatively low thermal conductivity and means adapted to be forced into and out of frictional contact with said faces of said rotative element.

1,426,544. LISTER-MOTOR CULTIVATOR. THEOPHILUS BROWN, Moline, Ill., assignor to Deere and Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 23, 1917. Serial No. 156,996. 8 Claims. (Cl. 97—81.)



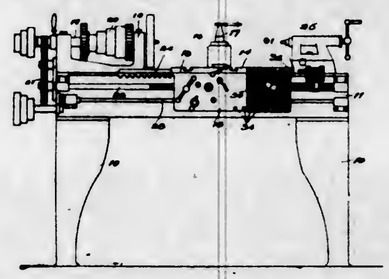
1. A power propelled tillage implement comprising a frame, dirigible wheels supporting the front of the frame, wheels supporting the rear of the frame, a motor on the frame having connections by which power is transmitted to the wheels, tillage devices connected to the frame, two vertically rotatable wheels adapted to be shifted bodily laterally relatively to the frame and to bear horizontally against the ground in two opposite directions simultaneously, and means connecting the last said wheels to the dirigible wheels for automatically oscillating the latter laterally and positively.

1,426,545. TYING TOOL. HARRY H. BURSON, Chicago, Ill., assignor to Simplex Steel Products Company, Chicago, Ill., a Corporation of Illinois. Filed July 31, 1920. Serial No. 400,497. 3 Claims. (Cl. 81—15.)



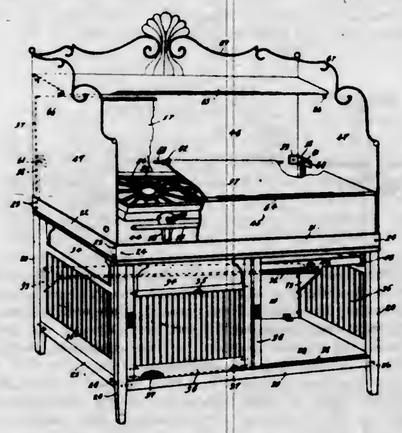
1. A tool of the kind described comprising a pair of pivoted levers each formed with a handle end, means for normally holding apart their handle ends, a jaw carried by each lever at its opposite end, both jaws being co-acting and disposed in a direction which is generally transverse to the medial line between the levers, the inside jaw being extended beyond the other, and a stop between the two jaws to limit the distance of entry of a tongue therebetween, the inside jaw having a length substantially equal to that of the tongue to be bent, substantially as described.

1,426,546. LATHE. WILLIAM BUTTRUM, Joplin, Mo. Filed Dec. 4, 1920. Serial No. 428,353. 9 Claims. (Cl. 82—5.)



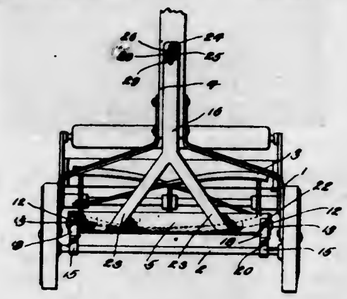
1. A thread cutting attachment for lathes including a bed, a carriage and a lead screw and comprising an extension, means for securing said extension to the carriage, a bracket having a depending portion provided with a bearing, means for adjustably securing said bracket to the bed, an auxiliary screw having its exterior provided with threads of a pitch corresponding to the threads to be cut and adapted to be arranged upon and constrained to rotate with the lead screw, said auxiliary screw having a shoulder abutting the bearing of the bracket and a reduced extension beyond the shoulder rotatably received in the bearing, means for maintaining the auxiliary screw in proper relation with respect to the bearing including a thrust collar secured to the auxiliary screw and engaging the bearing, and a nut for securing the thrust collar in position, and a split nut carried by the extension and engageable with the auxiliary screw.

1,426,547. SAFETY GAS STOVE WITH KITCHEN CABINET. HARRY CHILINGERIAN, Bridgeport, Conn. Filed Aug. 23, 1921. Serial No. 494,464. 8 Claims. (Cl. 126—37.)



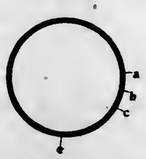
1. In a gas stove, a support, a gas plate including burners mounted on said support, back and end walls around said plate, and a retractable cover plate over the gas plate and burners adapted to be moved to a position to the rear of the burners and between the same and the rear wall.

1,426,548. LAWN-MOWER SHARPENER. THOMAS J. CONNOLLY, Cedar Rapids, Iowa. Filed Mar. 24, 1921. Serial No. 455,107. 5 Claims. (Cl. 51—250.)



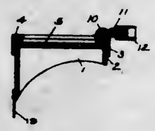
1. A lawn mower sharpener comprising a stone carrying strip for extending longitudinally of a set of cutting knives, stone engaging means at the side of said strip, a stone slidable longitudinally into and out of engagement with the stone engaging means of said strip, supporting means for said strip, and means carried by said supporting means for engaging the ends of said stone and holding the stone in engagement with the strip.

1,426,549. PRINTING SURFACE. JAMES ALBERT COREY, London, England. Filed Mar. 4, 1919. Serial No. 280,668. 13 Claims. (Cl. 204—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



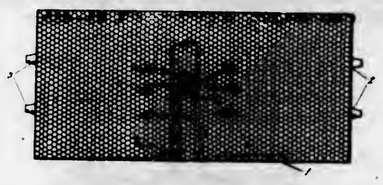
1. A method of producing a jointless cylindrical electrotype printing surface, comprising the production of a flexible cylindrical "mother" of relatively thin, hard and dense metal by electrotyping from a cylindrical original, splitting and stripping the "mother" from the original and using the "mother" as a mould, substantially as described.

1,426,550. EYE PROTECTOR. CHARLES O. COZZENS, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Mar. 16, 1920. Serial No. 366,266. 6 Claims. (Cl. 2—149.)



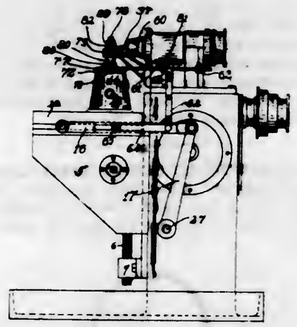
1. A device of the character described comprising an open ring having a pair of integral inwardly extending tongues formed thereon, one of said tongues terminating in a bridging attaching eye and the other of said tongues terminating in a pair of eyes adapted to be bent to overlie each other and provide a temple-engaging endpiece.

1,426,551. COMB FOR BROOD CHAMBERS AND SHALLOW EXTRACTING SUPERS. HERVE L. CROSS, JR., Cincinnati, Ohio, assignor of one-third to Edgar W. Nouse, Columbus, Ohio, and one-third to Robert E. Wardlow, Cincinnati, Ohio. Filed Jan. 24, 1921. Serial No. 439,351. 1 Claim. (Cl. 6—11.)



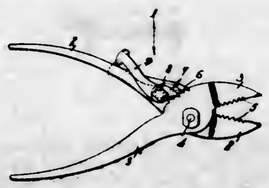
As an improved article of manufacture, an artificial honeycomb formed of celluloid.

1,426,552. GEAR-INDEXING MECHANISM. MILTON O. CROSS, Detroit, Mich. Filed Apr. 5, 1918. Serial No. 226,829. 10 Claims. (Cl. 90—56.)



1. A gear indexing mechanism comprising in combination with a cutter for operating on the tooth of a gear and a holder for the gear movable toward and from the cutter, of an arbor rotatably mounted in the holder, frictional means yieldably holding the arbor from rotation, a rotatable clutch adapted to bindingly engage the arbor and turn the same when turned in one direction and to release from engagement therewith on turning in the opposite direction, means adapted to actuate the clutch on movement of the head in either direction, a gear carried by the arbor and rotatable therewith, and a sector having teeth complemental to the gear teeth engaged by the gear when brought to position for operation by the cutter.

1,426,553. PLIERS. ALEXANDER CRUICKSHANK, Clayburn, British Columbia, Canada. Filed July 11, 1921. Serial No. 483,884. 2 Claims. (Cl. 294—41.)



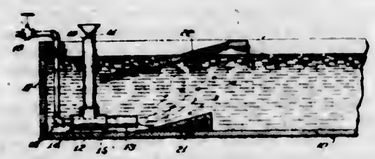
1. The combination with a pair of pliers, the handle and jaw members of which are pivotally connected together, a pawl pivotally mounted on one of the plier members the end of which pawl is designed to enter into engagement with one of a series of notches formed on the other plier member concentric with the pivot about which the plier members move, said pawl having a resilient arm provided with a grooved end adapted to spring over the edge of the handle of the plier member on which said pawl is pivotally mounted to hold said pawl out of engagement with said notches.

1,426,554. HOOK FOR CONVERTIBLE WATCHES. JOSEPH DAVING, New York, N. Y. Filed May 23, 1921. Serial No. 471,552. 2 Claims. (Cl. 24—237.)



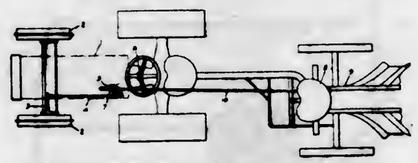
1. As an improved article of manufacture, a duplex coupling device for convertible watches formed of a single piece of material with resilient twin hooks with overlapping free ends, and a cross bar connecting the hook portions.

1,426,555. METHOD OF AND APPARATUS FOR CRYSTALLIZING OILS AND FATS. HENRY H. DOERING, Chicago, Ill. Filed Feb. 16, 1920. Serial No. 359,024. 10 Claims. (Cl. 62—177.)



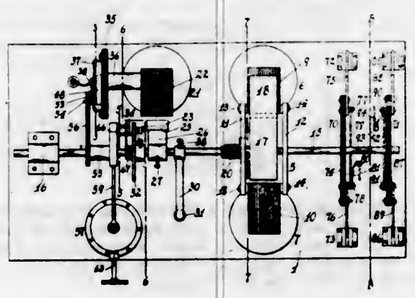
4. The method of crystallizing oils, fats and the like, which consists in introducing a stream of hot oil or fat at the bottom of a body of cold water, and discharging a jet of compressed air adjacent the point of oil introduction so as to cause the oils or fats to be broken up into small particles or crystals.

1,426,556. STEERING DEVICE FOR TRACTORS. EMERSON C. DUNLAP, Miami, Ind. Filed June 10, 1921. Serial No. 476,550. 2 Claims. (Cl. 180—77.)



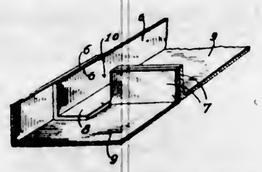
1. The combination with a steering mechanism of a tractor including a steering crank arm, of an angular shaped extension extending parallel with and a distance above said crank arm, said crank arm entering the hollow between the angular sections of the extension, clamping members for securing the extension to the crank arm, one of said members having a V-shaped notch for engagement with the apex of said extension, and a rod connected with the upper end of said extension and projecting a distance in the rear of the tractor whereby said crank arm may be operated for controlling the guiding mechanism for the tractor from a point distant from the tractor.

1,426,557. LIGHT CONTROL. ROBERT W. EBELING and HERMAN J. FANGER, Oakland, Calif., assignors to Standard Light Control Company, Oakland, Calif. Filed Jan. 24, 1921. Serial No. 439,463. 5 Claims. (Cl. 200—90.)



4. An automatic controlling switch including a shaft, two knife switches, the blade members of said knife switches being secured on said shaft, a shaft turning magnet, the armature of said magnet being secured to said shaft to turn the shaft in one direction when the magnet is energized, a spring for turning the shaft in the other direction, an arm on said shaft, a lock magnet, a latch on the armature of said lock magnet for engaging said arm when the shaft is turned by said shaft turning magnet to lock the shaft against turning in the other direction by said spring, a timing switch for controlling both of said magnets to enable said shaft turning magnet and said spring to oscillate said shaft and reverse said knife switches, a lever loosely mounted on said shaft for actuating said timing switch, a dash pot connected to said lever to retard its action, a disk secured to said shaft, a pin on said disk, a pin on said lever, and a spring coiled around said shaft with its ends engaging opposite sides of said pins whereby the lever is yieldingly driven by the shaft, said timing switch including a switch arm having a V-shaped notch at one end and a spring engaging said notch to close the switch quickly when said arm passes its dead center in either direction.

1,426,558. METALLIC ROOF. WILLIAM F. EDWARDS, Warren, Ohio. Filed Aug. 11, 1921. Serial No. 491,545. 1 Claim. (Cl. 108—13.)

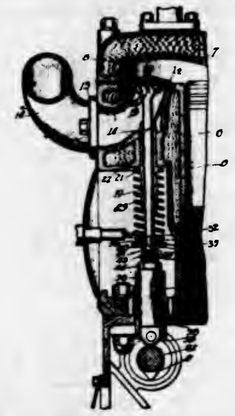


A roof comprising body members having transverse flanges which are disposed in abutment, the body members having longitudinal flanges which are overlapped on each other, the transverse flanges being spaced inwardly from the ends of the body members to form projections which are joined to the longitudinal flanges and are overlapped on each other, the ends of the transverse flanges being spaced from the longitudinal flanges to permit the aforesaid overlapping of the longitudinal flanges and to permit the aforesaid overlapping of the projections of the body members.

1,426,559. PRESERVED EGGS AND PROCESS THEREFOR. ALBERT K. EPSTEIN, Chicago, Ill. Filed Dec. 9, 1920. Serial No. 429,358. 4 Claims. (Cl. 99—1.)

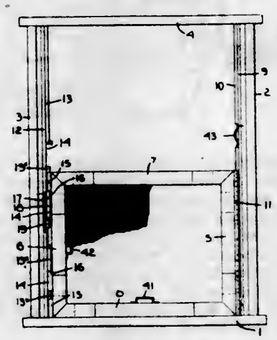
1. The method of retaining the physical colloidal consistency of egg content after removal from the egg shell which consists in adding glycerine thereto, freezing the mixture and maintaining it frozen until desired for use, the amount of glycerine being sufficient to retain the physical consistency and colloidal condition of the egg substance when thawed.

1,426,560. VALVE. JAMES B. FISHER, Waukesha, Wis. Filed Oct. 1, 1919. Serial No. 327,758. 5 Claims. (Cl. 251—129.)



3. In combination, a poppet valve for an internal combustion engine comprising a valve head, a valve stem and a tapering portion joining said head and said stem, and arcuate propeller flutes milled in said tapering portion, each of said propeller flutes comprising a wall extending relatively abruptly to the surface of said tapering portion and a wall extending relatively obtusely to the surface of the tapering portion.

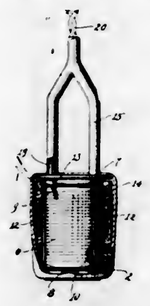
1,426,561. WINDOW-SCREEN CONSTRUCTION. WILLIAM H. J. FITZGERALD, Braintree, Mass. Filed Aug. 17, 1921. Serial No. 493,093. 8 Claims. (Cl. 156—14.)



8. A window screen construction comprising a window frame and a sash, co-operating runs on said frame and sash having complementary interengaging tongued and grooved members, the tongue of one of said runs and one wall of the complementary grooved run being provided with recesses so placed and positioned as to permit the remaining portions of the tongue and recessed groove wall to pass through the said respective recesses when the sash is raised to a predetermined distance from closed position, a plate countersunk in one of said runs extend-

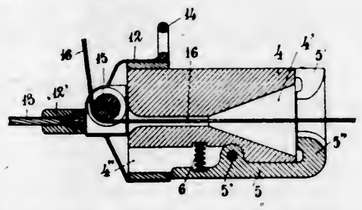
ing beneath the interengaging member of said run, a guide pivotally mounted on said plate having a wall normally forming a continuation of the wall of said run across the recess therein but adapted to be swung aside to permit detachment of the interengaging run member and the removal of said sash.

1,426,562. ELECTRIC HEATER. ERNEST O. FREDERICS, New York, N. Y., assignor to E. Frederics, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 2, 1921. Serial No. 489,211. 8 Claims. (Cl. 219—24.)



1. In an electric heater, in combination, a core member, a plurality of terminal members encircling said core, and insulated therefrom, one of said terminal members being positioned adjacent each end of said core, a resistance wire positioned about said core, each end of said resistance wire having several points of contact with one of said terminal members, and a pair of leading-in wires, each of which is connected with one of said terminal members.

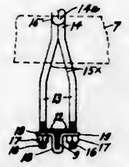
1,426,563. AUTOMATIC COUPLING FOR ROPES, CABLES, AND THE LIKE. DONATO GARIGLIO, Turin, Italy. Filed Aug. 23, 1921. Serial No. 494,514. 4 Claims. (Cl. 24—201.)



1. A coupling for connecting the ends of ropes, cables and the like comprising a female member to which is connected one of said ends, a male member to which is connected another of said ends, said female member comprising a seat for receiving said male member, spring hooks for clamping said male member in position in said seat, said spring hooks being opened by their co-operation with an inclined portion of said male member, and means for pulling said male member toward and into engagement with said female member.

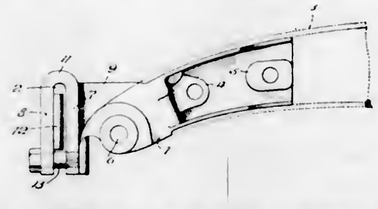
1,426,564. BRACE FOR AUTOMOBILE RUNNING BOARDS. WILLIAM HAGGLUND, Dassel, Minn. Filed Apr. 30, 1921. Serial No. 465,650. 1 Claim. (Cl. 280—163.)

The combination with the frame and the running board of an automobile, of a bar extending horizontally across the automobile and having upon its ends blocks supporting the running boards, said bar being T-shaped in cross section and arranged with its middle rib downward, two hangers supporting each one end of said bar, each of said hangers having its upper end formed with a hook engaging over some bar of the frame and being below the hook bifurcated into two threaded legs depending one



at each side of the T-bar, a clip crossing the under side of the T-bar and having a deep notch fitting the downward rib of same said clip having near each end a hole for the depending legs of the hanger, and nuts threaded on the legs below the clip to support it.

1,426,565. BUMPER SUPPORT. CHARLES H. HATHAWAY, West Allis, and WILLIAM A. STARCK, Milwaukee, Wis., assignors to Badger Manufacturing Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 23, 1921. Serial No. 494,646. 11 Claims. (Cl. 293—55.)



3. A bumper support for permanent attachment to an automobile channeled side bar and comprising an arm adapted to be received therein and rigidly fastened to the channeled side bar, an integral clamp projecting beyond the end of the side bar and having jaws for gripping a bumper bar positioned therebetween, one jaw having a depression in the face thereof, and a corresponding projection on the face of the other jaw.

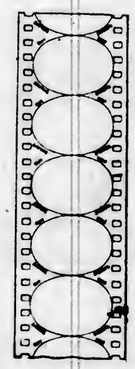
1,426,566. TELEPHONE DIRECTORY. CLARENCE RICHARD HILBERRY, Flint, Mich. Filed Jan. 10, 1922. Serial No. 528,269. 8 Claims. (Cl. 40—10.5.)



1. A telephone directory comprising a front plate having a hub projecting laterally of the rear face thereof, said front plate being provided with alined spaced apart openings therethrough, a plurality of disks rotatably mounted on the hub and each provided with alined openings therethrough respectively adapted to register with

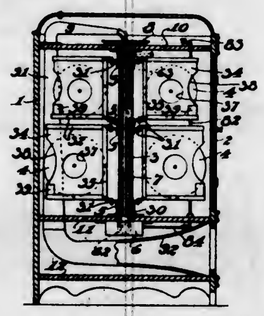
the corresponding openings of the front plate when the disks are in a certain position with respect to the front plate, each of said disks having desired data produced thereon in position to be observed through the said openings when the particular disk is rotated relatively to the front plate, and means carried by the hub for maintaining the disks on the hub and for permitting of the rotation of the said disks.

1,426,567. ADVERTISING FILM AND METHOD OF PRODUCING THE SAME. THOMAS HAYES HUNTER, Los Angeles, Calif. Filed Nov. 6, 1919. Serial No. 336,206. 1 Claim. (Cl. 88—19.5.)



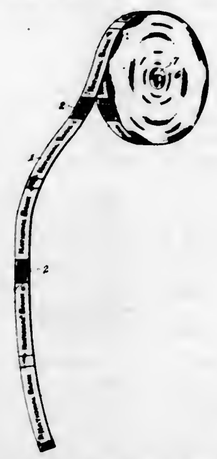
The method of producing motion picture film which consists in printing a positive film from the usual negative film having its successive picture-bearing portions commensurate in area with the projection aperture of the projecting machine by which the positive is to be projected, said printing being effected through a mask having opaque portions obscuring the light from portions of the positive film which are in printing relation with the uniformly disposed successive portions of the picture-bearing sections of the negative film, and photographically printing on the positive film within the unexposed areas a succession of uniformly disposed advertising legends of a subject-matter entirely irrelevant to the subject of the pictures.

1,426,568. PHONOGRAPH CABINET. EDWIN E. HUTSHING, Seattle, Wash. Filed May 10, 1920. Serial No. 380,085. 2 Claims. (Cl. 211—16.)



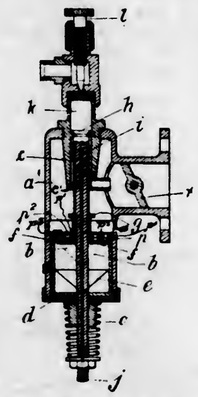
2. A disk record storing means comprising a pair of vertically-spaced, laterally-extending channeled arms, supports for the inner ends thereof, a vertical channeled brace rigidly secured to each of said arms adjacent its inner end, the channels in said arms and brace being alined, and all facing the space included between the arms and brace, and an envelope received in said channels, and having its opening along the vertical side opposite said brace and having means to prevent a record rolling therefrom.

1,426,569. GUMMED TAPE. ALONZO P. INGRAM, Pittsburgh, Pa. Filed Feb. 26, 1921. Serial No. 448,207. 5 Claims. (Cl. 24—67.)



2. As an article of manufacture, a tape for packaging, gummed in spots on one side and free from gum on the other side, said tape being in the form of a roll, the spots of gum being widely separated and uniformly distributed along the same, to provide bands having a spot of gum at one end only and only on one side, substantially as described.

1,426,570. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. LEWIS FRANK KING, Poole, and FREDERICK GEORGE KING, Farnborough, England. Filed Dec. 28, 1921. Serial No. 525,381. 3 Claims. (Cl. 261—64.)



1. A carburetor of the kind set forth, comprising a cylindrical casing having a mixing chamber and an outlet therefrom for atomized mixture, a fuel inlet fitting at the top of said casing above said mixing chamber, a hollow piston valve mounted to move axially within the lower portion of said casing, a rod fixed to said piston and extending through the bottom of said casing, a valve at the upper end of said rod controlling the fuel admission to said mixing chamber, ports in the walls of said casing

co-operating with ports in the walls of the piston valve when said piston valve functions, and ports in the upper wall of said piston valve through which incoming air passes to the mixing chamber, for the purposes set forth.

1,426,571. CUFF FASTENER. OSCAR E. KOHL, Rochester, N. Y. Filed Mar. 25, 1921. Serial No. 455,408. 1 Claim. (Cl. 24—102.)



A cuff fastener comprising two heads, one of which is smaller than the other, and a shank connecting them, formed of a U shaped member having two arms of different lengths, the shorter arm proceeding from one edge of the larger member and the longer arm proceeding from one edge of the smaller member.

1,426,572. CUFF LINK. OSCAR E. KOHL, Rochester, N. Y. Filed Oct. 20, 1921. Serial No. 508,921. 4 Claims. (Cl. 24—102.)



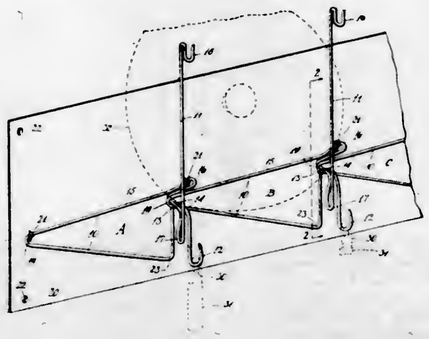
3. A one piece cuff button comprising two side members and a connector of less width than the side members, such connector being formed U-shape with its side arms abutting the opposed faces of the side members.

1,426,573. LOCK AND KEY. JOSEPH W. KOVACH and TONI MARKOVICH, Aurora, Minn. Filed Dec. 17, 1920. Serial No. 431,361. 2 Claims. (Cl. 70—75.)



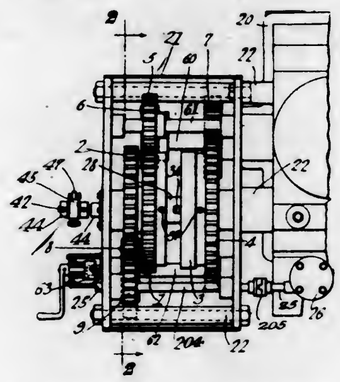
1. The combination with a lock of the character described having a reciprocal bolt therein and an automatically operated catch cooperatively engageable with the bolt, of a key therefor composed of an inner and outer telescopic portion both of said portions having bolt engaging arms thereupon, means for operating the inner portion both longitudinally and rotatably independently of the outer portion, and means whereby the bolt engaging arm on the inner member is normally housed within the bolt engaging arm of the outer portion.

1,426,574. WALL FIXTURE. CATHERINE M. LANGHORNE, Plainfield, N. J. Filed Jan. 11, 1922. Serial No. 528,403. 8 Claims. (Cl. 211—14.)



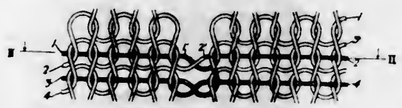
1. A well fixture, consisting of a series of interlocked units each comprising a substantially vertical rack member, a connecting member extending transversely from the rack member near the lower end thereof, and a spacing member extending from the inner end of the connecting member and in a plane transverse thereto and engaging the connecting member of the next unit.

1,426,575. REVERSING MECHANISM. ROBERT F. LANHAM and ALBERT V. SHULL, Laurel, Miss. Filed June 10, 1920. Serial No. 387,928. 2 Claims. (Cl. 123—41.)



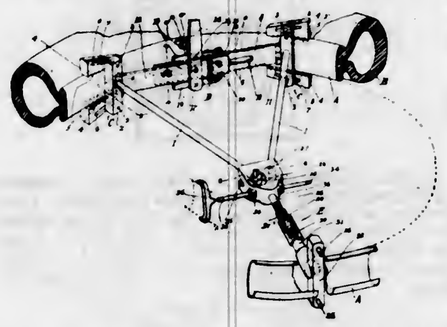
1. In a mechanism for converting a one-way internal combustion engine into a reversible engine, a housing comprising forward and rear members; means for securing the housing to the forward portion of an engine frame; a main sleeve journaled in the forward and rear members of the housing and adapted for the reception of the cam shaft of an engine; means for securing the main sleeve to the cam shaft of an engine; an auxiliary sleeve journaled in the forward and rear members of the housing and adapted for the reception of the crank shaft of an engine; means for securing the auxiliary sleeve to the crank shaft of an engine, a shaft mounted in the forward and rear members of the housing; a reversing pinion carried by the last-specified shaft; a first gear wheel rotatable on the main sleeve; a second gear wheel rotatable on the main sleeve and meshing with the reversing pinion; a first pinion fixed to the auxiliary sleeve and meshing with the first gear wheel; a second pinion fixed to the auxiliary sleeve and meshing with the reversing pinion, all of the aforesaid gear wheels and pinions being located between the forward and rear members of the housing; a clutch mounted movably on the main sleeve and cooperating with the first and second gear wheels to couple the same one at a time to the main sleeve; and means operating within the main sleeve, and accessible from a point in front of the forward member of the housing, for actuating the clutch.

1,426,576. KNITTED FABRIC. VINCENT LOMBARDI, Brooklyn, N. Y. Filed Mar. 26, 1921. Serial No. 455,894. 1 Claim. (Cl. 66—4.)



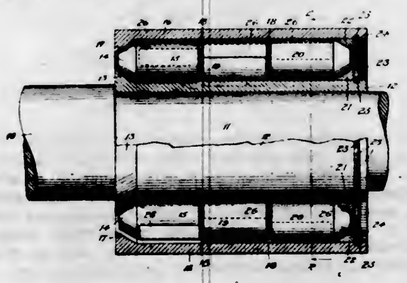
A knitted fabric comprising a plurality of independent yarns making certain portions of the front of said fabric one color and other portions another color, each of said yarns in turn forming a looped portion and a transversely extending unlooped portion, the looped portion in each instance determining the color of the front of the fabric, each of said yarns in its unlooped portion being interlocked in alternate wales between the two sides of a loop in one row and the two sides of a loop in an adjacent row of yarn of the other color, each unlooped portion in the remaining wales being carried entirely behind the looped yarn so that the resulting zigzag path for the unlooped portion insures positive interlocking in the said alternate wales, the unlooped portion being tightly drawn so that said unlooped yarn in its zigzag path lies close to the fabric and thereby prevents the formation of floats.

1,426,577. RIM-EXPANDING TOOL. ROBERT J. LOOMIS, St. Paul, Minn. Filed Feb. 2, 1921. Serial No. 441,951. 2 Claims. (Cl. 157—1.)



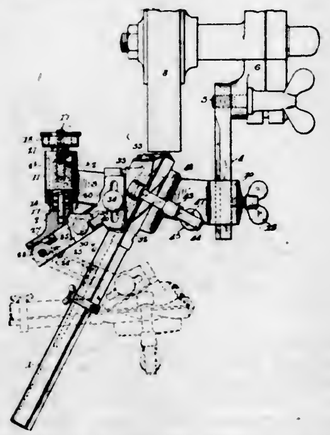
1. A rim expanding device, comprising a pair of oppositely disposed rim gripping elements, having converging rods extending in the plane of the rim a longitudinally adjustable arm pivotally connected at one end with said rods and extending away from said rim gripping elements to the opposite side of the rim and having means at the other end to embrace the latter, and spreading mechanism extending between said gripping elements and having pivotal connection with both, said spreading mechanism comprising a double rack-bar and a plain bar constructed so as to be longitudinally slidable upon one another, an operating lever having fulcrum support on said plain bar, and spring pressed dogs pivoted on said lever, one for each rack of said double rack-bar, said dogs being pivoted on opposite sides of said fulcrum so as to alternately engage said rack-bar to slide it on said plain bar when said lever is actuated.

1,426,578. ROLLER BEARING. CHARLES I. LOTT, Pearson, Ga. Filed Mar. 16, 1920. Serial No. 366,222. 4 Claims. (Cl. 64—62.)



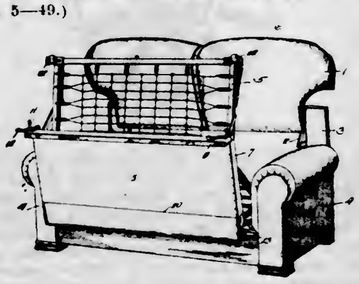
1. The combination with a sleeve adapted to be secured in place upon a shaft, of a plurality of distinct annular series of cylindrical rollers, the outer ends of the rollers of each terminal series being frusto-conical, a cage spacing the series and the rollers of each series, a second sleeve enclosing the rollers and cage, both said sleeves having at one end flanges fitting opposite sides of the frusto-conical ends of the rollers of one terminal series, bevelled rings fitting the inner and outer sides, respectively, of the frusto-conical ends of the rollers of the opposite terminal series, and readily releasable means for holding the rings in place between the sleeves.

1,426,579. GRINDER ATTACHMENT FOR DRILLS. FRANK R. LUECK, Milwaukee, Wis. Filed Aug. 2, 1920. Serial No. 400,694. 10 Claims. (Cl. 51—219.)



1. In a grinder attachment for drills the combination of a support connected with the grinder frame, a drill holder, a swivel joint normally connecting the drill holder with said support at an oblique angle to said holder and to the working face of the grinding wheel and comprising members separably fitted to each other, one of the swivel members being pivotally connected transversely to its axis with said support to permit the drill holder to be swung into and out of operative position relative to the grinding wheel, means for locking the pivoted swivel member to said support in operative position, and means adapted to automatically lock the swivel members together in normal working relation to each other when the pivoted swivel member is swung into operative position and to unlock said members and permit the removal of the drill holder when said pivoted swivel member is swung out of operative position.

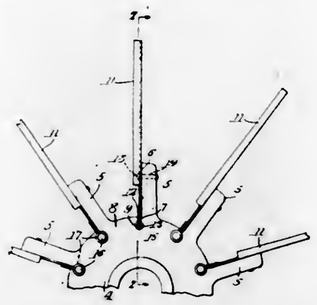
1,426,580. ATTACHMENT FOR DAVENPORTS. NELS J. LUNDEEN and HENRY F. RUSSELL, Tacoma, Wash. Filed Nov. 29, 1921. Serial No. 518,498. 5 Claims. (Cl. 5—49.)



1. A seat for davenports comprising a frame, means connecting the several sections of said frame and reinforcing the same, a canvas secured to said frame, and

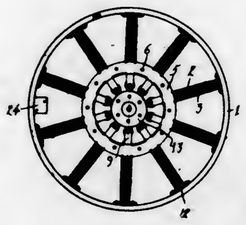
provided with a pocket extending the length thereof, a rod mounted in said pocket and secured to the frame, and resilient means secured to one of the above mentioned reinforcing elements and to said rod.

1,426,581. IMPELLER FOR CENTRIFUGAL COMPRESSORS. GARNET W. MCKEE, Rockford, Ill. Filed June 26, 1920. Serial No. 391,889. 2 Claims. (Cl. 170—141.)



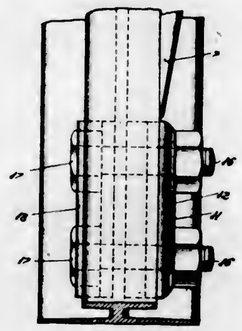
1. An impeller of the character described, comprising a hub having a series of circumferentially arranged radially projecting arms and provided forwardly of and at the base of each arm with a key-hole shaped slot, a series of channel-shaped blades each tapering laterally toward the outer end and having its inner end reduced in width and bent backward upon itself to form an eye connected by a reduced shank with the body of the blade, the eye and shank of each blade being engaged in one of said key-hole slots with the back of the blade disposed against the front face of one of said arms, means for securing each blade intermediate its ends to its respective arm, and means extending through said eye and engaging with said hub at each side thereof for holding the inner end of the blade against displacement.

1,426,582. RESILIENT VEHICLE WHEEL. JOSEPH MCLAUGHLIN, Fordwich, Ontario, Canada. Filed Aug. 26, 1918. Serial No. 251,387. 3 Claims. (Cl. 152—53.)



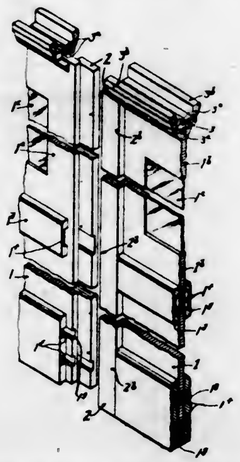
1. In a vehicle wheel a rim, a plurality of V shaped brackets secured to the rim and extending inward therefrom, the legs of adjacent brackets lying in parallel relation, a pair of ring members secured to each side of the brackets at the inner ends, the said rings and said legs of adjacent V shaped members providing a substantially rectangular receptacle, a plunger mounted in each receptacle, means limiting the extent of inward movement of the plunger, a spring in the receptacle formed between the legs of the brackets engaging the plunger, a hub supported by the inner ends of the plungers, and driving connection between the rim and hub.

1,426,583. RAILWAY-SWITCH GUARD. MATTHEW J. MCNAMARA, Scranton, Pa., assignor of one-half to James R. Fleming, Scranton, Pa. Filed May 12, 1921. Serial No. 468,892. 3 Claims. (Cl. 246—441.)



1. The combination of a railway rail; a swinging switch rail having a reduced entry end; and a guard member secured in service on the side of the railway rail in advance of the switch rail, said member having an inclined surface for engaging the flange of a railway wheel to shift the same toward the center of a railway track.

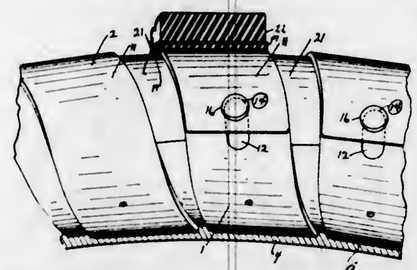
1,426,584. PARTITION STRUCTURE. GEORGE E. MCNEAL, Cleveland, Ohio. Filed Nov. 8, 1921. Serial No. 513,709. 8 Claims. (Cl. 20—4.)



1. A partition structure, comprising individually complete filling units including under channelled chair-rails and baseboards forming horizontal conductor receiving openings, overlapping vertical post forming unit connecting members abutting against said chair-rails and baseboards and spacing said filling units apart forming intervening vertical conductor receiving openings intersecting said horizontal conductor receiving openings.

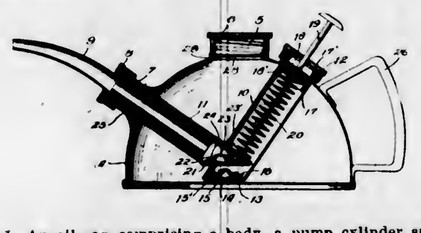
1,426,585. STEEL TIRE. ALOYSIUS PAUL MALLON, San Francisco, Calif. Filed Sept. 3, 1921. Serial No. 498,235. 4 Claims. (Cl. 152—8.)

3. The combination of a wheel rim and a steel tire, comprising a band of spring steel spirally wound into an annular ring and consisting of a plurality of longitudinal members yieldingly connected to each other and a plurality of side flaps secured internally to the longi-



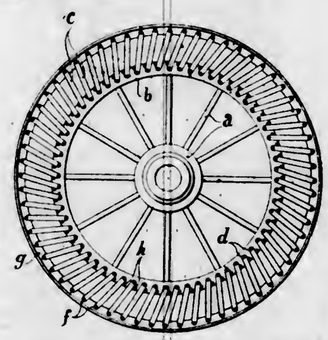
tudinal members for covering the spaces between the same, and a spiral groove in the rim for receiving the band.

1,426,586. PUMP OIL CAN. MILTON MAYER, Burlington, Iowa. Filed May 28, 1920. Serial No. 384,826. 6 Claims. (Cl. 221—51.)



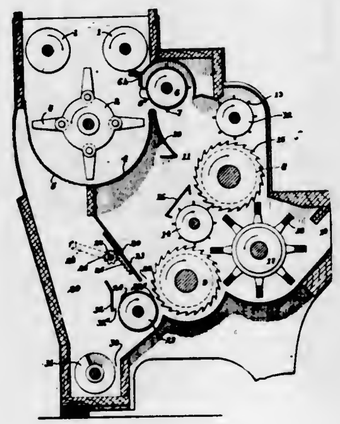
1. An oil can comprising a body, a pump cylinder supported in an angular position in the body and having at its lower end a flat valve seat parallel with the bottom of the body and located adjacent thereto, an intake valve on said seat, a spring pressed piston operating in said pump cylinder, a discharge cylinder supported in the body at substantially a right angle to the pump cylinder and having its lower end projected into the pump cylinder and provided with a flat valve seat adjacent to the intake valve and parallel with the bottom of the body, a discharge valve on said latter seat, and a spout communicating with said discharge cylinder.

1,426,587. ELASTIC WHEEL. LÉON MICHA, Antwerp, Belgium. Filed Nov. 27, 1914. Serial No. 374,277. 2 Claims. (Cl. 152—1.)



2. In an elastic wheel, an elastic tyre spaced from the felloe of the wheel, in combination with a plurality of inclinable frames extending between the said felloe and the said elastic tyre each at an angle to the corresponding radius, pivotal connections between the felloe and the rim portion of the tyre and the respectively adjacent ends of the inclinable frames, and abutment pins secured on the felloe and adapted to set the initial inclination of the said frames and to limit the amplitude of their movement, substantially as described.

1,426,588. COTTON EXTRACTING AND CLEANING MACHINE. JOHN E. MITCHELL, St. Louis, Mo. Filed Aug. 26, 1920. Serial No. 406,117. 6 Claims. (Cl. 19—36.)



1. In a boll breaking and cotton separating machine, the combination of boll breaking means, an upper and a lower saw cylinder, the saws of which operate wholly in the clear as respects the cotton engaging side thereof, a hull board co-operating with each saw cylinder to direct mixed cotton and hulls falling by gravity over the same against the saws, and the lower edges of said hull boards defining the sizes of openings past the cylinders, the opening past the upper saw cylinder being larger than the opening past the lower saw cylinder, a kicker roll co-operating with each cylinder, means for feeding the cotton and broken bolls to the saw cylinders from the boll breaking means, and a rotary doffer common to both saw cylinders and co-operating therewith to simultaneously remove the cotton therefrom.

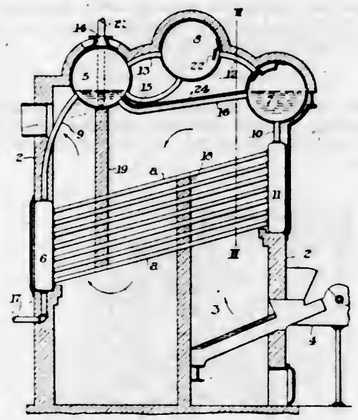
1,426,589. CLEANSING COMPOUND. RAYMOND MOORE, Bradford, and HARRY MOORE, Hippaholme, England. Filed Nov. 4, 1920. Serial No. 421,727. 1 Claim. (Cl. 87—5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

A cleansing paste of the kind aforesaid consisting of 2.50 per cent common crystallized soda, 70 per cent fine sand, 2.50 per cent pure sodium carbonate, 2.50 per cent sawdust, and 22.50 per cent of a liquid compound composed of 50.75 per cent water, 1.73 per cent free ammonia, 37.62 per cent mineral oil, 5.46 per cent ammonia soap, and 4.44 per cent glycerin, substantially as set forth.

1,426,590. BOILER. DONALD M. NAISMITH, Pittsburgh, Pa. Filed Mar. 14, 1921. Serial No. 452,173. 6 Claims. (Cl. 122—297.)

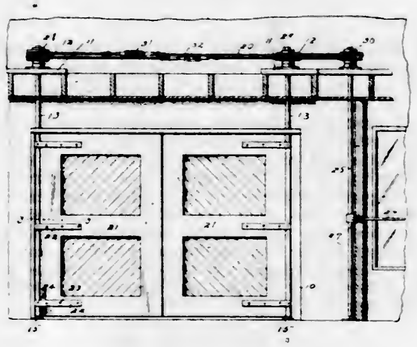
1. In combination with a horizontal boiler having terminal headers; a water circulation drum for each header and

directly connected therewith, and an intervening steam separating drum having a steam receiving connection with



one of said drums and a steam supply connection with the other.

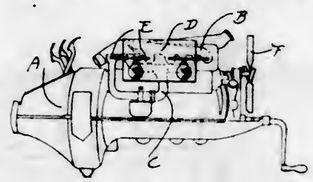
1,426,591. MECHANISM FOR OPERATING DOORS. ALVIN R. NEALE, Adel, Iowa. Filed Nov. 28, 1919. Serial No. 341,283. 3 Claims. (Cl. 268—9.)



1. A door opening device comprising door operating shafts and a manually operated shaft, means for operatively mounting said shafts, a double grooved sheave having a communicating groove on corresponding ends of each of said shafts, a cable for operatively connecting all of said shafts by passing part way around in one of the grooves of each sheave, thence through the communicating groove to the opposite groove, substantially as described and for the purpose stated.

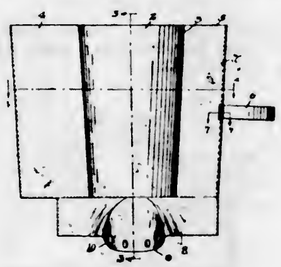
1,426,592. MANIFOLD HEATER. HOLT NICHOLS, Rupert, Idaho. Filed Jan. 25, 1921. Serial No. 439,841. 5 Claims. (Cl. 263—5.)

1. In a manifold heater, the combination, with an internal combustion engine having exhaust and intake manifolds, of a casing enclosing said intake manifold and a portion of the exhaust manifold, auxiliary burners positioned within the casing for heating the intake manifold, a detachable lid for the front of said casing to permit access to the burners, said lid having apertures therein adjacent



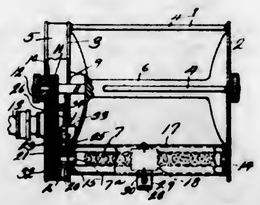
the detachable burners, and adjustable doors mounted upon said lid for regulation of the opening into said casing.

1,426,593. LEGGING. BUELL W. NUTT, Cleveland, Ohio, assignor to The Strong, Kennard and Nutt Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 11, 1919. Serial No. 344,049. 3 Claims. (Cl. 36—2.)



1. A legging comprising a longitudinally slit portion of solid resistant material adapted to fit about the leg of the wearer, a single cloth covering overlying such solid resistant material and extending beyond the slit therein in the form of flaps adapted to fold over each other, a rod secured to the lateral edge of the outer of such flaps, and a spring clip hingedly attached at one end to such rod and adapted to encircle such legging to hold the same in place.

1,426,594. FISHING REEL. GEORGE J. OLTSCH, South Bend, Ind. Filed Sept. 26, 1921. Serial No. 503,364. 11 Claims. (Cl. 242—84.7.)

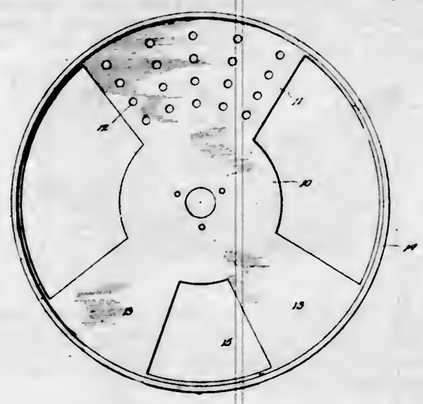


2. The combination with a reel having a simultaneously rotated line carriage shaft and a brake for the reel, of a housing rockably mounted on said line traversing shaft and provided with means whereby when the housing is rocked the brake will be released.

1,426,595. SHUTTER FOR MOTION-PICTURE MACHINES. ARTHUR M. PATUREAU, Beaumont, Tex. Filed Aug. 18, 1921. Serial No. 493,406. 1 Claim. (Cl. 88—19.3.)

A shutter of the character described consisting of a central circular portion, a blade extending from one side of

said central circular portion and provided with perforations therethrough arranged in rows on radial lines and concentric arcs, equally spaced imperforate blades extending from the central circular portion at opposite sides of a diametric line bisecting the first blade, the spaced im-

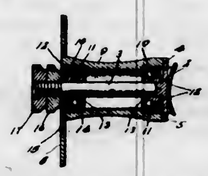


perforate blades being of equal area and being separated by an opening of like area and the first blade being of an area greater than the area of the respectively spaced blades and separated therefrom by spaces of greater area than any of the blades, and a rim connecting the outer edges of all the blades.

1,426,596. SELECTIVE REMOVAL OF ORGANIC MATERIAL FROM LIQUORS. CHARLES LEE PECK, New York, N. Y., assignor to The Dow Company, a Corporation of Delaware. Filed July 1, 1919. Serial No. 308,052. 2 Claims. (Cl. 83—85.)

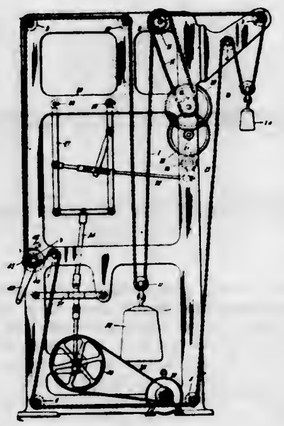
1. The method of effecting the selective separation and recovery of hair from tannery liquors or other liquors containing the same in a mixture with fleshings and the like, which comprises subjecting the liquor to a flotation operation and thereby selectively floating the hair without floating the fleshings and the like and recovering the hair thus floated; substantially as described.

1,426,597. REEL. ROBERT D. PETERS, Knox, Ind. Filed Apr. 3, 1920. Serial No. 371,052. 1 Claim. (Cl. 242—84.5.)



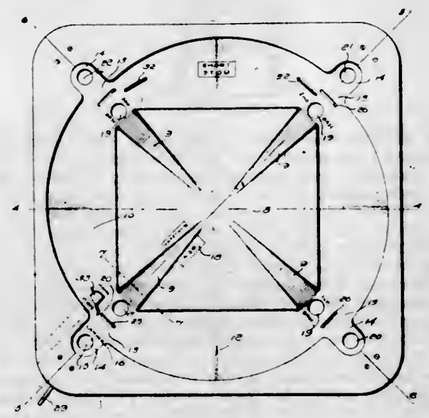
A combined line drying and casting reel, comprising in combination an anchor plate, a disk on one side thereof, a shaft projecting laterally from said disk, a second and relatively large disk having radial arms terminating in divergent fingers, a tubular hub projecting centrally from one side of said second disk, said shaft extending through said hub, ball raceways seated in said hub at the ends thereof, cooperating raceways carried on the shaft, and longitudinally slidable thereon, binding means mounted on the shaft and coacting with said longitudinally slidable raceways, and locking means for said raceway coacting means, also mounted on said shaft.

1,426,598. WEIGHT-MOTOR DEVICE. SALVATORE PICCIOTTO, New York, N. Y. Filed Apr. 29, 1921. Serial No. 465,496. 1 Claim. (Cl. 185—27.)



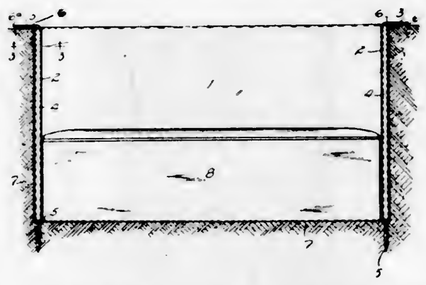
A weight motor of the class described, comprising a frame support, a driving gear mounted therein, weight means operatively connected to said driving gear to actuate the same, a pendulum swingingly carried by said frame and operatively connected to the driving gear, a driven member, and a pitman connection intermediate the pendulum and the driven member whereby a single rotation of the driving gear will impart double rotation to the driven member.

1,426,599. GAME BOARD. FRED W. POPP and SAMUEL B. CLARK, Vallejo, Calif. Filed Mar. 10, 1921. Serial No. 451,226. 6 Claims. (Cl. 46—61.)



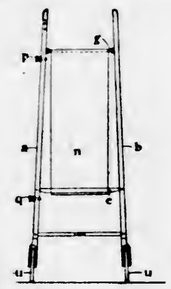
1. A base ball game board comprising a substantially rectangular portion formed of a plurality of inclined surfaces and a surrounding portion formed of a plurality of inclined surfaces, said board being provided with a pair of openings arranged adjacent each corner of the rectangular portion, the spaces between said pairs of openings being level to permit a sphere to remain thereon in a state of rest, and propelling devices adapted to simultaneously engage spheres located on said level portions.

1,426,600. GRAVE LINING. ANNA LOUISA RHEDANS and ANDULO MARIE HITZERT, St. Louis, Mo. Filed Feb. 9, 1922. Serial No. 535,188. 4 Claims. (Cl. 27—29.)



1. A grave lining, comprising a rectangular hollow body, and finishing-flaps at the upper sides and ends of said body adapted to be folded outwardly and cover the the earth adjacent the mouth of the grave; in combination with vertical rod-pockets at the corners of said hollow body, and holding and stretching rods adapted to be placed in said pockets and have their lower ends driven into the earth at the bottom of the grave.

1,426,601. COLLAPSIBLE CARRIAGE. CHARLES VICTOR RICHARDSON, Saffron Walden, England. Filed July 7, 1919. Serial No. 309,122. 7 Claims. (Cl. 280—36.)

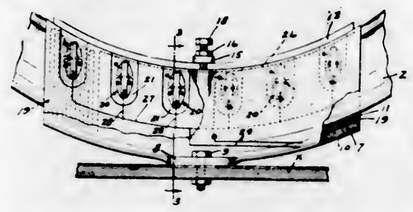


1. A collapsible carriage, comprising two oppositely disposed longitudinal frame members having a wheel at the respective lower ends and having their respective upper ends adapted to serve as handles, the said frame members having cavities on their oppositely disposed sides adapted on the said frames being brought together into coincidence to form a complete enclosure, transversely disposed bars adapted for connection to and between said longitudinal frame members in determined positions for maintaining the said frame members spaced apart for use and for the reception of the upper and lower ends of a flexible seat respectively, and means on the said longitudinal frame members for the connection of the said bars and for permitting of their withdrawal into and their disposition within the said cavities with the flexible seat rolled around one of the said bars, substantially as described.

1,426,602. PROCESS FOR OBTAINING VOLATILIZABLE METAL OXIDES. FREDERICK DUNCAN STRUAN ROBERTSON, Toronto, Ontario, Canada. Filed Dec. 16, 1918. Serial No. 266,984. 13 Claims. (Cl. 23—13.)

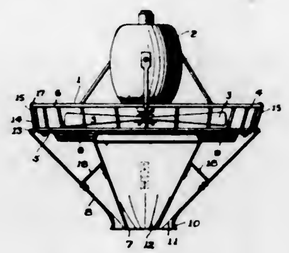
1. The process of obtaining volatilizable metal oxide from a substance capable of delivering the same, which comprises circulating a gaseous fluid in a circuit, heating to a sufficiently high temperature at one point in said circuit and in operative contact with said fluid a substance capable of delivering volatilizable metal oxide, and allowing such metal oxide to be deposited from said fluid at another point in said circuit.

1,426,603. ELECTRIC VULCANIZER. EVEN J. ROHNE, Minneapolis, Minn., assignor of one-half to Ole Kr. Boe, Minneapolis, Minn. Filed Nov. 21, 1919. Serial No. 339,668. 9 Claims. (Cl. 219—19.)



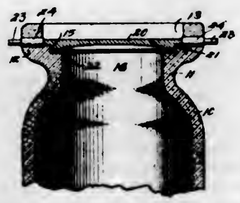
1. An electric vulcanizer including two circuit leads, a series of independent heating elements connected to one of said leads, and a corresponding series of normally closed thermostats independently connecting the several heating elements to the other of said leads.

1,426,604. ELECTRIC HEATER. HERMAN E. ROYS, New York, N. Y., assignor to Universal Interests, Inc., a Corporation of Delaware. Filed Oct. 1, 1920. Serial No. 413,994. 6 Claims. (Cl. 219—42.)



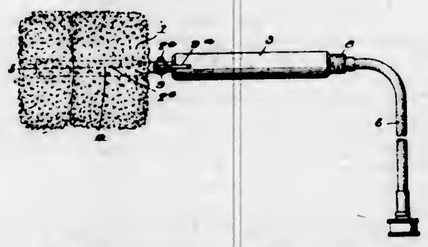
1. An air deflector for use with an electric fan, comprising means for attaching the same to the fan, and air guiding means for receiving the air from the fan, said guiding means having toward its outer end a converging cross sectional area, whereby the velocity of the air current delivered increases toward the point of emergence, and a heating unit positioned in the guiding means in the portion of greater cross sectional area, substantially as described.

1,426,605. JAR-CLOSURE DEVICE. HARRY RUBINSON, Des Moines, Iowa. Filed Apr. 3, 1922. Serial No. 549,110. 3 Claims. (Cl. 215—31.)



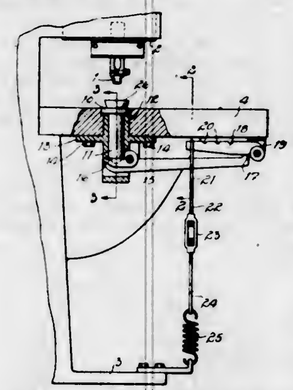
1. In combination with a jar having a pair of oppositely spaced openings substantially the shape of an inverted T and a cover member for the jar having a circular body portion, a pair of oppositely spaced arms extended outwardly from said body portion of the cover member, said arms being designed to be received in said inverted T-shaped openings and to have a portion projected beyond the side of the jar for permitting them to be engaged for rotating the cover member for the purposes stated.

1,426,606. WASHING APPLIANCE. OSCAR NELSON SANDHOLM, Denver, Colo., assignor to The Never Scratch Auto Washer Company, Denver, Colo., a Corporation of Colorado. Filed June 16, 1921. Serial No. 478,047. 6 Claims. (Cl. 15—130.)



1. A washing appliance comprising a relatively stiff tube having a series of perforations therethrough, a relatively soft cleaner member mounted on said tube and covering the end thereof and said series of perforations, and fastening means engaging said cleaner member and passing through said perforations of said tube and securing said cleaner member on said tube.

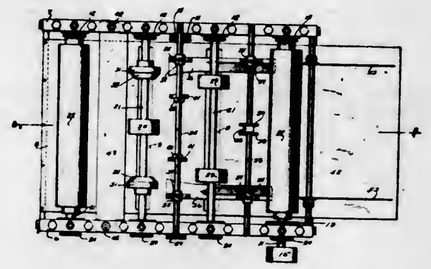
1,426,607. PRESS. OSWALD SCHLAUPITZ, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Feb. 25, 1922. Serial No. 539,088. 6 Claims. (Cl. 101—3.)



1. In a press of the kind set forth, a seat for the work, a lever that has one arm formed into a support for said seat, a second lever disposed above the outer end of said first lever and engaged thereby means comprising a spring for depressing the end of said second lever, thereby holding said seat in its uppermost position, and means for adjusting the pull of said spring on said lever.

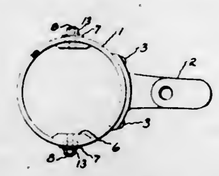
1,426,608. BOX-BLANK MACHINE. JACOB B. SCHMIDT, Milwaukee, Wis. Filed Jan. 17, 1921. Serial No. 437,835. 6 Claims. (Cl. 93—49.)

1. In a machine of the class described, fold forming means comprising a plate, means for feeding a blank past said plate with its adjacent edge portion engaging the same, a shoulder portion formed on said plate to fold the adjacent portion of the blank as it is fed past the



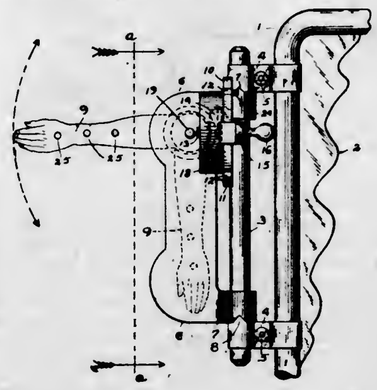
plate, and means comprising a substantially rigid transverse bar coacting with said plate to crease the blank at the fold.

1,426,609. ADJUSTABLE INTERRUPTER CAM. WOLFGANG E. SCHWARZMANN, Longmeadow, Mass., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Jan. 11, 1921. Serial No. 436,625. 4 Claims. (Cl. 200—30.)



2. In a timing mechanism for magnetos, the combination of a cam ring having a timing arm secured thereto, interrupter cams, said ring having elongated apertures, and securing means passing through and adjustable along said apertures for securing said cams in adjusted position.

1,426,610. AUTOMOBILE SIGNAL. YAICHIRO SHIBA, San Jose, Calif. Filed Feb. 24, 1920. Serial No. 360,948. 4 Claims. (Cl. 116—54.)



1. An automobile signal device, comprising, in combination, a bracket adjustably mounted upon the wind shield

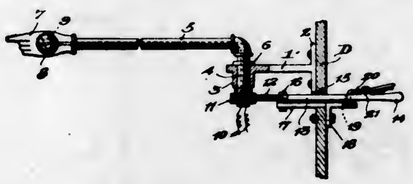
rail of the automobile, an arm pivotally connected to said bracket and adapted to swing upward and outward therefrom, means for operating said arm, consisting of a plate projecting from said bracket, intermeshing pinions secured upon said arm and plate, a lever connected to one of said pinions adapted to move said arm, means on said lever engaging said plate and adapted to retain said arm in a predeterminate position.

1,426,611. GARMENT CLASP. CURTIS A. SQUIRES, Lyndonville, Vt. Filed Mar. 31, 1921. Serial No. 457,190. 5 Claims. (Cl. 24—246.)



5. A clasp comprising a member having a shank having one end portion bent back upon itself to overlap another portion, the said overlapped portion being provided with spaced pivot bearings closed by the said end portion of the shank, and an attaching bail pivotally engaged in one of said pivot bearings, and a member comprising spaced arms and a portion connecting the arms and pivotally engaged with the other pivot bearing, the said shank having its other end portion turned back upon itself and provided with an opening, the said arms being normally spread apart at their free ends a distance greater than the width of the opening and being resilient, and the said arms at their said ends having gripping portions directed at an angle thereto and in the direction of the said shank and engageable through the opening when the arms are sprung toward each other.

1,426,612. AUTOMOBILE SIGNAL. ARTHUR ST. JEAN and ISAIE LAFLEUR, New Bedford, Mass. Filed May 4, 1922. Serial No. 558,432. 5 Claims. (Cl. 116—48.)



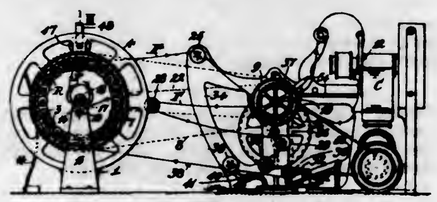
1. In an automobile signal, in combination with the automobile dashboard having a slot therein, a bracket above the slot secured to the front of the dashboard and having a vertical bearing, a hollow L-shaped arm having an indicator on its front end and having its opposite end journaled in the bearing, means to illuminate the indicator including wires extending through the arm and below the bracket, a second bracket secured to the dashboard and having a body extending through the dashboard slot, a pinion below the bearing secured to the said opposite end of the arm, a lever extending through the dashboard slot and pivoted to the front end of the body of the second bracket and meshed with said pinion, the rear end of the body of the second bracket having a series of spaced openings, and a latch on the rear end of the lever engageable in a selected one of the openings of the body of the second bracket.

1,426,613. SPRING SHIELD AND OILING DEVICE. GERHARD STOCKER, Minneapolis, Minn. Filed Aug. 29, 1921. Serial No. 496,359. 6 Claims. (Cl. 267—37.)



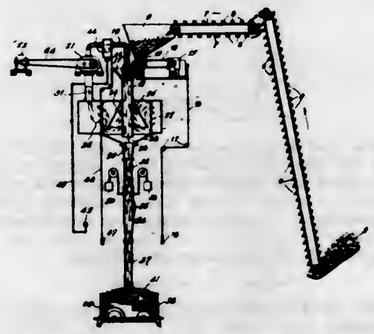
3. A device of the kind described comprising a casing applicable to a spring, an oil reservoir in the top of the casing, a plurality of transversely extended loops in the casing on the bottom of the reservoir, and wicks intermediately held by the loops and arranged to be held folded transversely aroung a spring by the casing, said reservoir having oil holes, certain of which are arranged over the loops and certain other of which are between said loops.

1,426,614. CINEMATOGRAPH MACHINE. ISAAC SUTHERLAND, Melbourne, Victoria, Australia. Filed May 14, 1920. Serial No. 381,429. 10 Claims. (Cl. 242—70.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



3. In a motion picture machine, using a film as picture carrier, the combination of a plurality of rollers on which the coiled film is supported and having their axes uniformly spaced on a circle, and a positively driven device contacting all of said rollers and adapted to rotate said rollers about their axes.

1,426,615. METHOD OF AND APPARATUS FOR RAMMING SAND INTO MOLDS. WILLIAM S. SUTTON, Rockford, Ill. Filed Feb. 21, 1921. Serial No. 446,708. 14 Claims. (Cl. 22—36.)



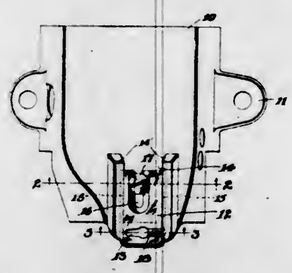
1. The herein described method which consists in flowing a stream of mingled pressure fluid and material through a conduit, positively withdrawing pressure fluid from the stream before it discharges from the conduit, and permitting the material free from pressure fluid to flow by momentum through the conduit and discharge therefrom.

1,426,616. TRAVELING-SCREEN NOZZLE. MARTIN SWINTEK, Eddyville, Iowa. Filed Apr. 4, 1921. Serial No. 458,581. 4 Claims. (Cl. 37—36.)



1. In an apparatus of the class described, a nozzle head comprising a base member formed with an opening, a nozzle secured to and extending forwardly from said base member and communicating with said opening, and spaced parallel arcuate track members rigidly secured at their ends to upper and lower corners of said base member and having their curved portions secured to opposite sides of the forward end of said nozzle, said track members being adapted to support and guide a flexible screen in travel around the mouth of said nozzle.

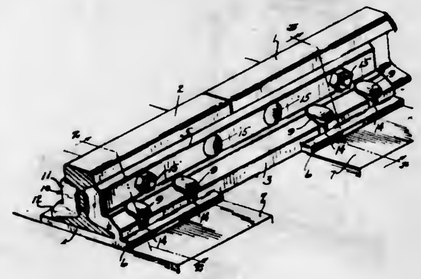
1,426,617. SEWING MACHINE. WILLIAM E. TURNER, Tacoma, Wash. Filed Apr. 18, 1921. Serial No. 462,182. 6 Claims. (Cl. 112—45.)



1. In combination, a needle plate cap, a needle plate on said cap, a removable cutter on said needle plate and a single means serving both to hold said needle plate against movement on said cap and to lock said cutter in position on the needle plate.

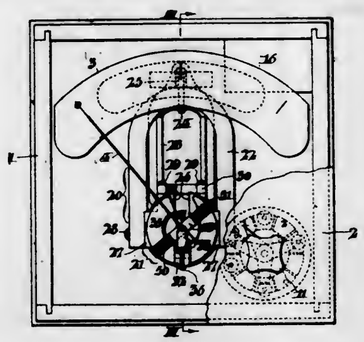
1,426,618. RAIL JOINT. JOHN A. TWEIT, Appleton, Minn. Filed Jan. 31, 1921. Serial No. 441,247. 1 Claim. (Cl. 238—195.)

A rail joint structure having in combination a member having a plate portion upon which the rails are adapted to rest, said plate portion extending transversely beneath the rails and beyond the edge of the same, said member also comprising a portion extending over and contacting the top surface of the rail flanges and extending upwardly and contacting with the underpart of the rail heads, and provided with an intermediate longitudinally extending horisontal ledge, said member having spaced holes therethrough adapted to receive securing spikes, the heads of which are adapted to contact said ledge, a second member extending along the opposite side of the rails having a portion contacting with the top of the rail flanges and the underside of the rail heads and extending along the side of the rail flanges into proximity to said plate portion and also having an intermediate longitudinally extending ledge, said portion having openings in its outer edge adapted to receive securing spikes



the heads of which are adapted to contact with said ledge and said plate portion having apertures therethrough disposed in alignment with said openings through which said securing spikes also pass.

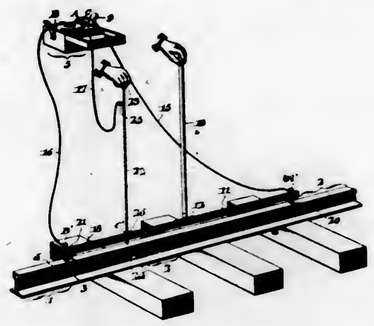
1,426,619. ELECTRICAL MEASURING INSTRUMENT. CHARLES E. VAWTER, Philadelphia, Pa. Filed July 30, 1919. Serial No. 314,273. 15 Claims. (Cl. 171—95.)



1. In an instrument of the class described, means for producing a magnetic field, a pair of rigidly united coils movable in said field, one of said coils being adapted to be connected in circuit with a resistance to be measured, a pointer secured to said coils, a scale with which said pointer co-operates, means for producing a predetermined distribution of the magnetic field, and means for adjusting the intensity of the magnetic flux along the path of movement of said coils, after the parts are assembled, whereby the instrument may be properly calibrated.

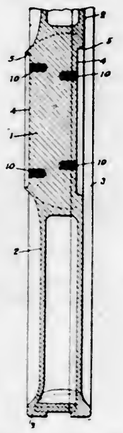
15. In an instrument of the class described, the combination with a magnet having curved pole pieces with their upper surfaces lying in a common horizontal plane, of an annular core having a gap, and conforming substantially to the curvature of said pole pieces, said core bridging the space between said pole pieces and serving to conduct the magnetic flux from one to the other, but itself being spaced from said pole pieces and disposed above the same in overlapping relation, and a coil surrounding said core and mounted to swing about an axis concentric therewith.

1,426,620. RAIL-BOND TESTER. CHARLES E. VAWTER, Philadelphia, Pa. Filed Oct. 10, 1919, Serial No. 329,743. Renewed July 10, 1922. Serial No. 573,920. 3 Claims. (Cl. 175—183.)



3. A rail-bond testing device comprising a bar with suitably spaced file edge contacts for engaging the rail, an additional electrical contact member vertically movable and manually adjustable for engagement with the rail, and means carried by said bar for locating and guiding said additional manually movable contact member in definite position relatively to said file edge contacts.

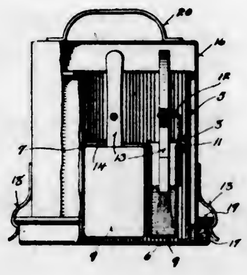
1,426,621. PATTERN FOR CAST-STEEL WHEELS. GEORGE WALTHER, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 8, 1920. Serial No. 363,941. 5 Claims. (Cl. 22—158.)



1. In a composite pattern for a cast steel wheel, the combination of a master pattern, consisting of spokes, a rim and a hub body, a circular depression having an outwardly inclined edge formed in the master hub body, a detachable hub extension having beveled bases adapted to fit the depression in the master hub body, and means to secure said parts together.

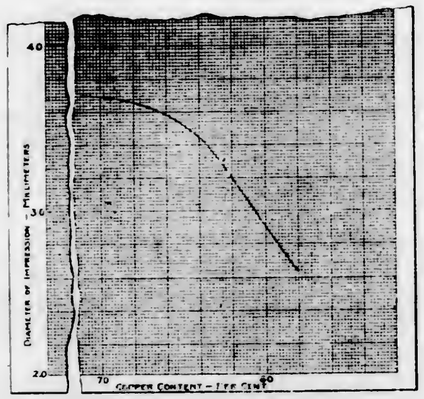
1,426,622. VARNISH-BRUSH CONTAINER. JAMES W. WARD, North Fond du Lac, Wis. Filed July 26, 1921. Serial No. 487,816. 5 Claims. (Cl. 91—63.)

1. In a device of the character described, a container having a supporting rail extending along its inner wall, a brush receptacle adapted to contain varnish, and having a hook secured thereto, in a position to engage said rail and



suspending the receptacle above the bottom of the container, a closure for said container, and a water seal for said closure.

1,426,623. METHOD OF MAKING BRASS AND SIMILAR ALLOYS. WILLIAM R. WEBSTER, Bridgeport, Conn. Filed Mar. 31, 1920. Serial No. 370,221. 25 Claims. (Cl. 75—1.)

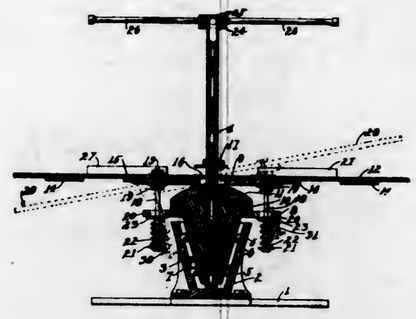


1. The method of making brass from scrap, which comprises a determination of a value of a physical characteristic of each of a plurality of samples of brass having varying known proportions of copper and zinc, determining a comparable value of the same physical characteristic of a sample of brass drawn from a molten furnace charge containing scrap brass, comparing those values to determine the composition of the last mentioned sample, and then adding to the charge of metal in the furnace sufficient copper or zinc to bring the mixture to the composition desired.

1,426,624. AMUSEMENT DEVICE. WINFIELD WILLIAMS, San Jose, Calif., assignor, by direct and mesne assignments, to J. F. Patterson and Hortense Bean, a Copartnership operating as Patterson-Williams Mfg. Co., San Jose, Calif. Filed June 30, 1920. Serial No. 393,010. 8 Claims. (Cl. 46—27.)

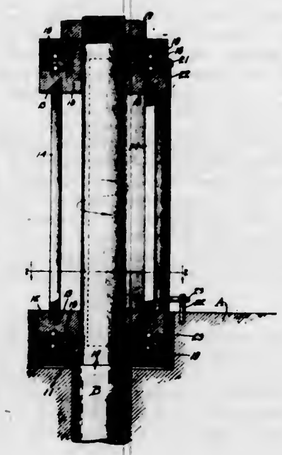
1. A device of the character indicated comprising a support, a member revolubly mounted on said support and presenting a convex upper surface, a member supported

on said convex surface, a plurality of elements rigidly secured to one of said members and passing through the



other member, and a resilient connection between each of said elements and said last mentioned member.

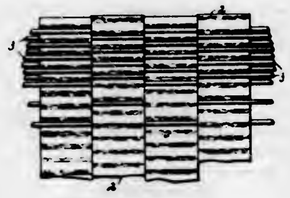
1,426,625. GUARD FOR WOODWORKING MACHINES. CHARLES YOUNG, Indianapolis, Ind. Filed May 2, 1919. Serial No. 294,201. 3 Claims. (Cl. 144—251.)



1. In combination, a work table, a vertical shaft, a cutter head on the shaft having blades extending down to the level of the table, a segmental guard for the blades extending over their entire length, said guard being adapted to be moved out of protecting position by frictional engagement of the work, and movable into protecting position by the rotation of the shaft, substantially as set forth.

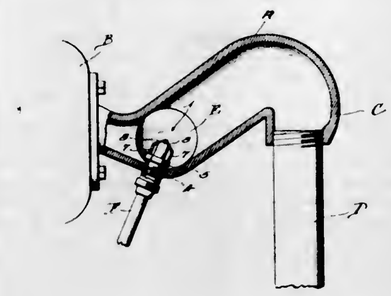
1,426,626. FABRICATED COVERING FOR AEROPLANES. OSMOND THERON BELCHER, Los Angeles, Calif., assignor to Belcher Aerial Manufacturing Company, a Corporation of California. Filed July 19, 1921. Serial No. 485,938. 4 Claims. (Cl. 244—31.)

1. In a covering for aeroplanes and the like comprising two sheets of fabricated material having a corrugated filler glued between of the two fabric sheets forming the outside walls of the covering and a corrugated filler formed of narrow strips of a proper material inserted be-



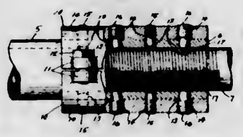
tween the two sheets with the ridges of some of the strips of corrugated filler in line with the grooves of other strips of the filler.

1,426,627. TRACK-SANDING DEVICE. TIMOTHY JOSEPH BURRELL, El Paso, Tex. Filed June 16, 1921. Serial No. 478,080. 5 Claims. (Cl. 291—13.)



1. A fluid nozzle for disposition in the conduit of a track sanding device comprising a longitudinally bored body, and an exteriorly disposed valve normally closing the upper end of said bore to prevent the entrance of sand, said valve being opened by the pressure of the fluid exerted against it.

1,426,628. COUPLING. PETER DENISON, Racine, Wis. Filed Oct. 8, 1919. Serial No. 329,290. 4 Claims. (Cl. 287—111.)

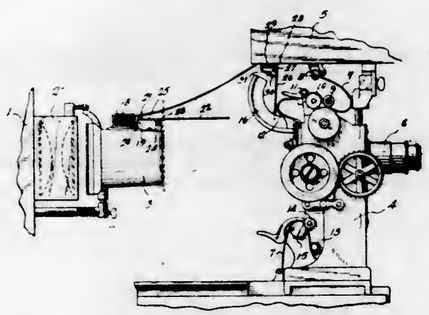


1. A coupling for securing the end of one shaft in the adjacent end of a tubular shaft comprising a sleeve member mounted on the end of the tubular shaft, and locking members carried by the sleeve member and extending radially through the tubular shaft and impinging against the side of the other shaft.

1,426,629. CATALYZER FOR HYDROGENATION AND THE PREPARATION THEREOF. CARLETON ELLIS, Montclair, N. J. Filed Dec. 23, 1913. Serial No. 808,461. Renewed Feb. 13, 1919. Serial No. 276,869. 8 Claims. (Cl. 29—28.)

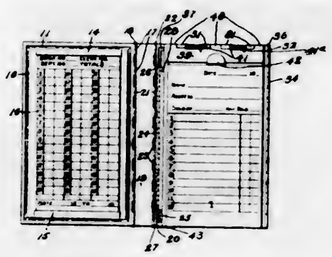
1. A process which comprises co-precipitating a nickel compound capable of being converted into a catalyst, and an insoluble sulfate capable of acting as an accelerator.

1,426,630. AUTOMATIC SAFETY SHUTTER FOR CINEMATOGRAPH MACHINES. JOSEPH J. GSCHWENDER, Dayton, Ohio. Filed July 18, 1917. Serial No. 181,212. 6 Claims. (Cl. 88—17.)



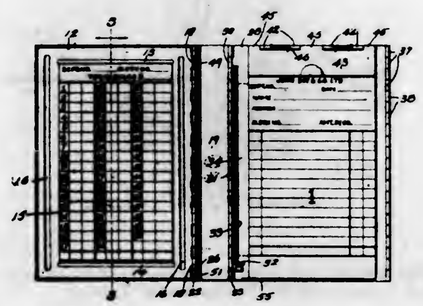
1. A cinematographic projecting machine, embodying a light box, an illuminating element therein, an interrupting element for the illuminating rays mounted on the light box, and film feeding means spaced away from the light box and interrupting element adapted to maintain a surplus bight of film at the supply side of the projecting position, characterized by a free swinging gravity-controlled pendulum like element suspended beyond the normal limits of said bight of surplus film and adapted to be oscillated by the abnormal distention of the bight to effect the operation of said interrupting element.

1,426,631. SALES-BOOK COVER. FREDERICK HACHMANN, St. Louis, Mo., assignor to William H. Gregg, St. Louis, Mo. Filed Jan. 29, 1921. Serial No. 440,914. 3 Claims. (Cl. 129—1.)



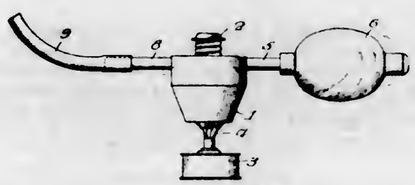
1. A sales book cover, comprising three metal sections hinged together, integral flanges formed on one section for securing in place a card for indicating each sale, a clamping means secured to one of the sections by means of which the sales record may be secured in place and removed, and the remaining section being provided with a spring clamping member for holding the sales slips in place.

1,426,632. SALES-BOOK COVER. FREDERICK HACHMANN, St. Louis, Mo., assignor to William H. Gregg, St. Louis, Mo. Filed Feb. 14, 1921. Serial No. 444,911. 2 Claims. (Cl. 129—1.)



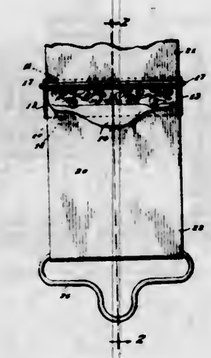
1. A sales book cover, comprising a front cover stamped from sheet metal and provided on its outer face with longitudinal ribs, a series of tongues bent into eyes formed along one margin of said front cover, an internally projecting sheet holding flange formed near the upper and lower edges of said front cover, a back having a series of tongues bent into eyes along its opposite margins and a series of eyes formed intermediate of said first mentioned eyes, an all-metal intermediate section pivotally secured to said back, a back cover formed of metal provided on its outer face with a series of projecting ribs and provided with a series of eyes on its opposite margins and pivotally secured to said back, an integral strip bent at right angles to said back cover and having formed on one end thereof a hook, a flexible strip secured to said first mentioned strip and provided with a free end adapted to be engaged with said hook, an intermediate section hinged to the back cover and adapted to be folded inwardly, and a spring clamp pivotally secured to the second mentioned intermediate section.

1,426,633. PROCESS FOR APPLYING IODINE TO DISEASED AND INJURED PORTIONS OF THE BODY. HENRY C. HARDING, Chicago, Ill., assignor of one-half to Madison B. Rutherford, Chicago, Ill. Filed Dec. 13, 1918, Serial No. 266,553. Renewed Jan. 14, 1922. Serial No. 529,370. 3 Claims. (Cl. 128—184.)



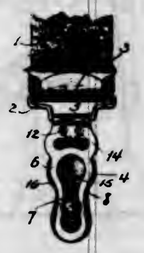
1. The process of applying iodine to diseased or injured parts of the body which consists in taking the iodine in a solid form, converting it into a fume, and while in this form mixing it with a current of air and forcing the mixed air and iodine fume against the surface to be treated so that the iodine is condensed thereon.

1,426,634. RUSTLESS BUCKLE. MICHAEL HAWIE, Bridgeport, Conn. Filed Nov. 12, 1921. Serial No. 514,633. 4 Claims. (Cl. 24—184.)



1. A rustless buckle comprising a sheet metal frame-member and a lever-member, said frame member including a back having forwardly projected ears and a series of spaced apart teeth struck up from said back intermediate its top and bottom edges and extending upwardly and forwardly, the lever-member being pivoted in the ears of the frame and including an operating arm and a clamping arm arranged at an angle thereto and having a series of teeth arranged alternately with respect to the teeth of the frame and adapted in the operation of the lever to pass between and clear of the teeth of the said frame-member.

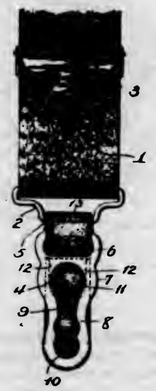
1,426,635. HOSE SUPPORTER. MICHAEL HAWIE, Bridgeport, Conn. Filed Apr. 14, 1922. Serial No. 552,693. 2 Claims. (Cl. 24—245.)



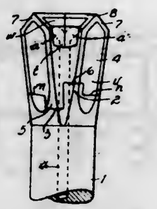
1. In a hose supporter, the combination of a loop member and a soft rubber clasp member secured directly thereto, said clasp member provided near its free end with two headed rubber studs integral therewith and integral with each other, the intermediate portion of said soft rubber clasp having reduced thickness and having integral reinforcing edge portions adjacent thereto.

1,426,636. HOSE SUPPORTER. MICHAEL HAWIE, Bridgeport, Conn. Filed June 22, 1922. Serial No. 570,076. 5 Claims. (Cl. 24—245.)

1. Attaching means for a hose supporter comprising a rigid loop member and a flexible clasp member cooperable therewith, said clasp member provided with an imperforate part having interlocking connection at its upper portion with the upper portion of the loop or frame member.



1,426,637. DRILL. ARTHUR L. HAWKESWORTH, Butte, Mont. Filed Nov. 21, 1921. Serial No. 516,782. 7 Claims. (Cl. 255—64.)

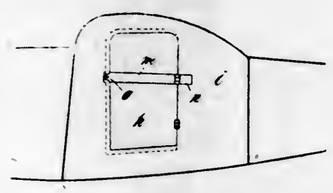


6. A drill bit provided with cutting legs terminating at their outer ends in cutting surfaces having circumferentially extending wings the peripheral surfaces of said legs being recessed.

1,426,638. PROCESS FOR THE SOFTENING OF WATER. GEORGE GRANT HEPBURN, Chorlton-Cum-Hardy, Manchester, England. Filed Aug. 17, 1921. Serial No. 493,112. 3 Claims. (Cl. 210—23.)

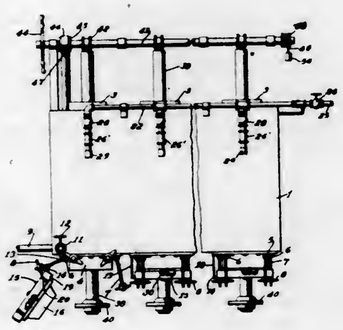
2. The process of softening water which consists in treating peat with a solution of alkali salt such as caustic soda or potash for removing the soluble constituents thereof and for transforming any free humic or ulmic acid substances such as lime and magnesia salts of such substances into their alkali salts, then filtering the water to be softened through the peat mass containing the insoluble or difficultly soluble salts of the alkali metals with humic or ulmic acid substances whereby insoluble salts of the metals of the alkali earths causing the hardness of the water with the said humic or ulmic substances, are formed and remain in the filtering mass, then re-converting the said salts by a regenerative process into the insoluble or difficultly soluble salts of the alkali metals for re-use.

1,426,639. FLYING MACHINE. KURT HERRMANN, Leipsig, Germany. Filed Mar. 27, 1920. Serial No. 369,374. 5 Claims. (Cl. 244—30.)



3. In flying machines, a hull construction comprising in combination, an interrupted upper beam, an entrance door frame extending upwardly through the upper beam, and a bolt connecting the two ends of the upper beams, substantially as described.

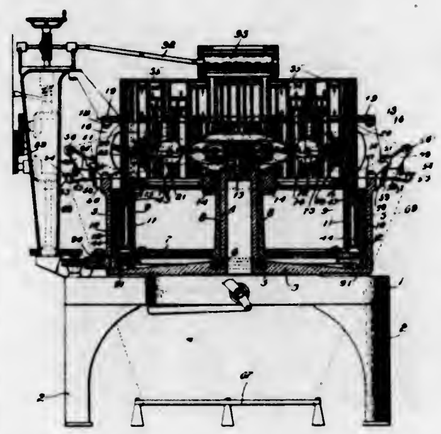
1,426,640. ICE-MAKING APPARATUS. MARTIN B. HILL, Houston, Tex., assignor of forty-five per cent to J. J. Sullivan, Houston, Tex. Filed Feb. 21, 1922. Serial No. 538,274. 9 Claims. (Cl. 62—167.)



1. Apparatus of the class described including a tank, a can therein and opening downwardly through the bottom thereof, a closure for the bottom of the can, and means for heating the closure.

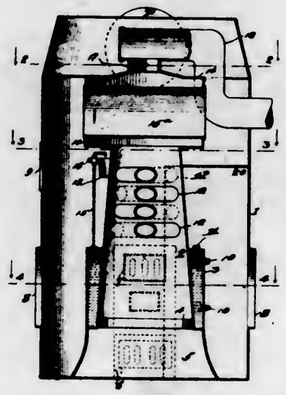
1,426,641. CIRCULAR LOOM. JAMES HIRST, Melrose, Mass., assignor, by mesne assignments, to Tubular Woven Fabric Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed July 17, 1918. Serial No. 245,362. 10 Claims. (Cl. 139—7.)

1. A circular loom including a base, brackets mounted upon said base and spaced apart in circular arrangement about a common center, shuttle driving shafts and pinions mounted upon said brackets, heddle guides mounted between the brackets in a position substantially tangent to the outer sides of the pinions, a plurality of heddles mounted to reciprocate in each of said guides, and driving cams directly engaged with said heddles formed to reciprocate



oppositely to one another the heddles which guide adjacent warp threads.

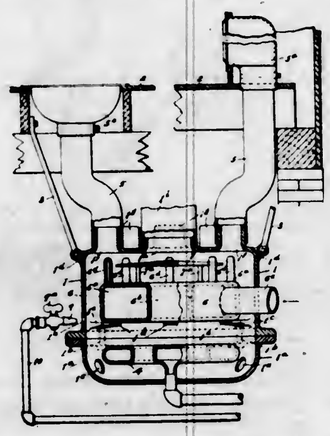
1,426,642. TUBULAR HOT-AIR FURNACE. ROBERT HITCHEN, Kewanee, Ill. Filed Jan. 31, 1922. Serial No. 533,074. 2 Claims. (Cl. 126—101.)



1. In an apparatus of the class described, the combination of a furnace casing provided with inlets and an outlet, a fire-box in said casing, a water jacket formed upon said fire-box, a humidifier receptacle secured to the side of the fire-box, a pipe fastened at its lower end to the water jacket and overhanging at its upper end said humidifier receptacle, said pipe provided with a valve contiguous to one of the inlets of the furnace casing, a smoke pipe, and means connecting said smoke pipe to said fire-box.

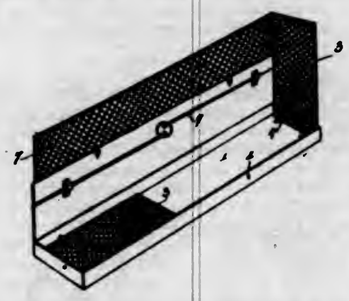
1,426,643. HEATING SYSTEM. THEODORE A. HOLMBERG, Stamford, Conn. Filed Apr. 7, 1922. Serial No. 550,292. 7 Claims. (Cl. 126—116.)

1. In a heating system, a flame enclosing generator provided with heat distributing pipes and subjacent air inlet passages, an air pressure distributing head provided with nozzles adapted to discharge air into and through said heat distributing pipes, and a burner in said casing below said air distributing head whereby the said head



is heated and the products of combustion are carried through said heat distributing pipes with the air discharged by said head and nozzles.

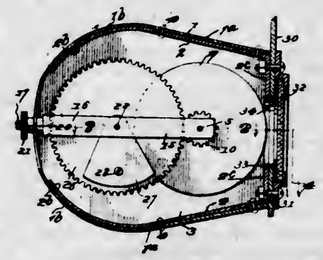
1,426,644. COLLAPSIBLE LUGGAGE CARRIER. CHARLES H. HOFF, Jr., Milwaukee, Wis. Filed Nov. 22, 1920. Serial No. 425,721. 2 Claims. (Cl. 224—29.)



1. In a luggage carrier, end walls adapted to be disposed substantially vertically in open position or folded substantially horizontally, a longitudinally hinged two-part side wall, the upper portion thereof being foldable against the lower portion, the two portions being foldable into substantially horizontal position over the horizontally disposed and folded end walls, said side and end walls terminating on the same horizontal plane, and means for holding the end walls and the two-parts of the side wall in vertical open position for the reception of luggage.

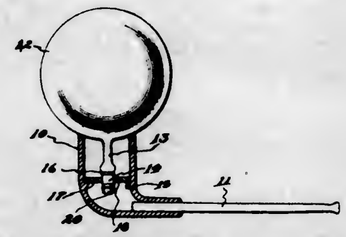
1,426,645. INCLINOMETER. HARRY C. HORNBECK, San Bernardino, Calif. Filed June 16, 1920. Serial No. 389,528. 5 Claims. (Cl. 33—220.)

1. In a grade indicator, a casing adapted to be fastened on a vehicle and having an opening provided with a transparent covering, an indicator cylinder mounted to oscillate in the casing and provided with a plurality of radial baffles and liquid partially filling the cylinder to damp the oscillation of the cylinder, means for supporting said cylinder, a cradle mounted upon the supporting means, a gravity actuated gear mounted on the cradle and having operative connections with the cylinder,



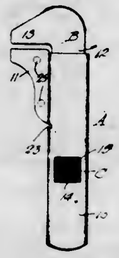
whereby the gear may seek a stable position with regard to its center of gravity, so that the cylinder may indicate the angle of inclination of the grade.

1,426,646. TOY. GEORGE W. HUGHEY, Springfield, Mo., assignor of one-half to Joseph O. Howard, Evanston, Ill. Filed Oct. 20, 1919. Serial No. 331,935. Renewed Jan. 11, 1922. Serial No. 528,564. 1 Claim. (Cl. 46—37.)



In combination, a pipe comprising a bowl and a stem, an internal annular shoulder formed in the bowl of the pipe a slight distance above the lower end thereof, a disk reposing upon said shoulder and having a central opening, a tubular member passed through said opening and frictionally held therein with its terminals disposed above and below the disk, said tubular member being open at both ends, that portion of the member arranged above the disk being formed with an annular groove, a balloon having a neck portion received by said groove and adapted to be inflated by blowing through the stem of the pipe, and a strip extending across the lower end of the member to produce a whistling sound when the balloon is deflated.

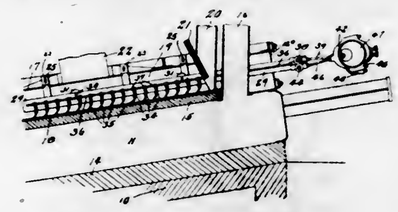
1,426,647. WRENCH. GEORGE D. ILLIG, Depew, N. Y., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Filed Aug. 6, 1921. Serial No. 490,320. 2 Claims. (Cl. 81—167.)



1. In a wrench, the combination of a body portion having a fixed inner jaw formed integral with a hollow

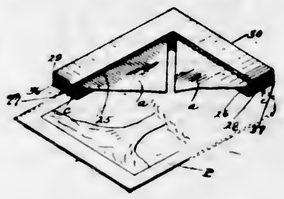
handle, said body portion being made of a sheet metal blank, the longitudinal middle portion of which forms the rear edge of said body portion and the portions of said blank adjacent to said middle portion forming the sides of the body portion, and the side edges of said blank having parts which are bent at substantially right angles to said side portions and are adapted to abut at approximately the middle of the front edge of said body portion, a movable outer jaw member stamped from a sheet of metal of approximately twice the thickness of the blank from which said body portion is made, and having a shank portion arranged in said hollow handle to guide the movement of said movable jaw, and a threaded stem, said shank portion, said stem and said movable outer jaw being of the same thickness, and a nut engaging said threaded stem for adjusting said movable jaw relatively to said fixed jaw.

1,426,648. MATERIAL-FEEDING MECHANISM. GEORGE MCD. JOHNS, St. Louis, Mo., assignor, by mesne assignments, to The Industrial Process Engineering Company, a Corporation of Delaware. Filed Dec. 6, 1920. Serial No. 428,592. 9 Claims. (Cl. 196—19.)



8. A retort feeding mechanism including a carriage reciprocatorily movable in the retort and a series of spaced material feeding members swingably carried by the carriage, in combination with means for adjustably regulating the swingable throw of the feeding members relatively to the floor of the retort and for holding said members in normal feeding position on the forward travel of the carriage.

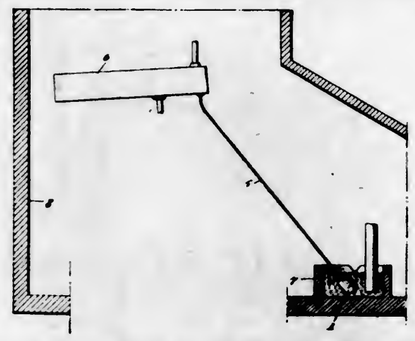
1,426,649. COMBINATION FOLDER AND PICTURE FRAME. DARWIN S. KASE, Los Angeles, Calif. Filed July 7, 1920. Serial No. 394,502. 8 Claims. (Cl. 40—154.)



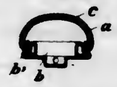
1. A combined folder and picture frame, comprising a blank having a central portion provided with intersecting indications as to cutting the same to form flaps, said blank likewise being provided with a frame portion between which and such flaps a picture may be retained, the flaps permitting the insertion of the picture in place.

1,426,650. SAFETY BLOW-OUT. DAVID FORBES KEITH, Toronto, Ontario, Canada. Filed Mar. 25, 1921. Serial No. 455,542. 2 Claims. (Cl. 220—89.)

1. The combination of a mercury-valve trap forming part of a pressure-containing system, a repression for holding water, a chamber having a wall of predetermined thinness to be submerged in said water, and a tube affording communication between said chamber and said trap.

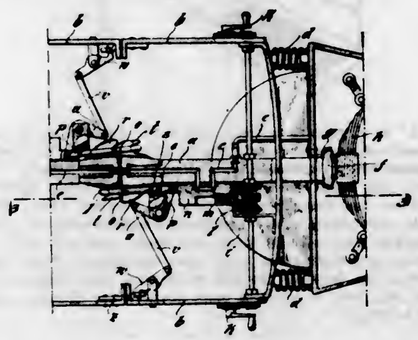


1,426,651. BUTTON. ERNST KLEINMANN, Berlin, Germany. Filed July 29, 1921. Serial No. 488,387. 8 Claims. (Cl. 24—113.)
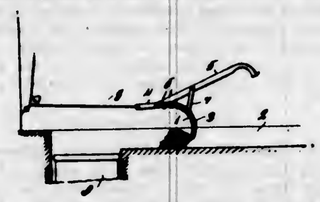


1. A button comprising, an upper portion, a pliable covering on the upper portion, and a base portion with a member projecting into a cavity of the upper portion and having a turned-back end that engages with the upper portion and is adapted to form a connection therewith.

1,426,652. CAR COUPLING. GUSTAV KRUM, Duisburg-Beeck, Germany. Filed July 8, 1920. Serial No. 394,846. 3 Claims. (Cl. 213—40.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



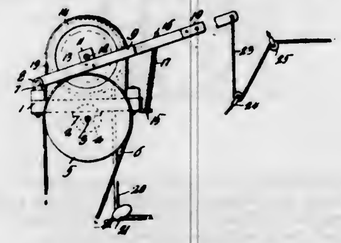
1. In a car coupling of the character set forth, in combination with the end of a car, a draw bar articulated to the car end, a slide member adapted for longitudinal displacement on said draw bar, means manually operable from the sides of the car for displacing said slide member relative to said draw bar, a coupling link pivoted to said slide member, means for causing lateral turning-out of said link about its pivot on relative forward displacement of said slide block, and a hook member at the outer extremity of said draw bar.

1,426,653. BARN-CLEANING IMPLEMENT. FRODE A. KAUSE, Tyler, Minn. Filed Nov. 27, 1920. Serial No. 426,779. 2 Claims. (Cl. 37—19.)



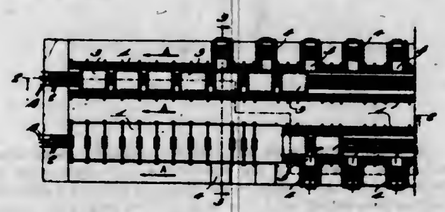
1. A device of the class described comprising a scraper being curved throughout its length and having its side edges converging at their upper portions, braces disposed on the rear face of the scraper and along the side edges thereof, a clevis disposed between the upper end of said braces, a handle connected to the scraper, a pair of brackets attached at one end to the handle intermediate its ends and having their other ends attached to the braces.

1,426,654. BARN-CLEANING MECHANISM. FRODE A. KAUSE, Tyler, Minn. Filed Nov. 27, 1920. Serial No. 426,780. 2 Claims. (Cl. 254—186.)



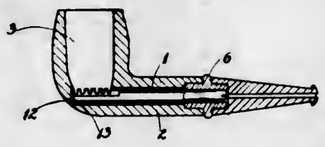
1. In a device of the class described, a main frame, an auxiliary frame, a drive gear mounted on the main frame, a driven gear mounted on the auxiliary frame, a drum mounted on the auxiliary frame so as to be driven by said driven gear, a spring mounted on said main frame and engaging said auxiliary frame so as to hold said gears apart, a cable trained over said drum, a pulley disposed below the end of said auxiliary frame, a second pulley disposed above the first mentioned pulley, said cable being trained over said pulley whereby the two frames may be positioned so that the two gears will be in engagement with each other when a load is attached to the free end of the cable in the manner and for the purpose specified.

1,426,655. KILN. ROBERT T. KYLE, Huntington, W. Va. Filed Mar. 10, 1921. Serial No. 451,080. 9 Claims. (Cl. 25—142.)



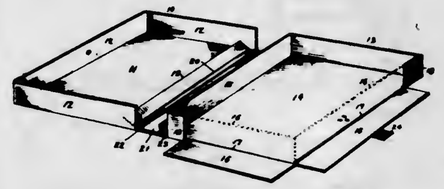
1. A kiln comprising a tunnel, a series of heat inlets opening into said tunnel at horizontally spaced points along one vertical side thereof only, and a single heat outlet from said tunnel, said outlet being located at the opposite side of the tunnel from said heat inlets and being longitudinally spaced from all of said heat inlets and in substantially the same horizontal plane therewith, whereby to force the heat from said inlets to travel diagonally across the tunnel and through the ware before escaping through said outlet.

1,426,656. TOBACCO PIPE. CHARLES LABAN, Walsall, England. Filed Sept. 3, 1921. Serial No. 498,297. 6 Claims. (Cl. 131—12.)



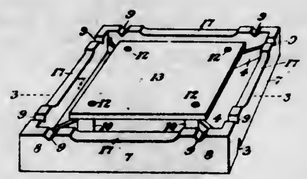
6. A tobacco pipe having a rotatable tube which projects into the base of the bowl and communicates axially with the exterior thereof, a part-circular tubular part adjacent the inside of the bowl, the opening of which is adapted to normally communicate with the bowl to allow any liquid deposits therefrom to pass to the tube, a stationary perforated tube concentric with the said rotatable tube, a closure for the end of said tube adapted to normally close it but allow it to be opened as desired, and means for rotating the said tube so as to isolate it from the bowl when the deposit can be removed by a straight blow through the stem.

1,426,657. NOTEBOOK COVER. ERNEST H. LONG, Lincoln, Nebr. Filed May 27, 1920. Serial No. 384,756. 5 Claims. (Cl. 129—43.)



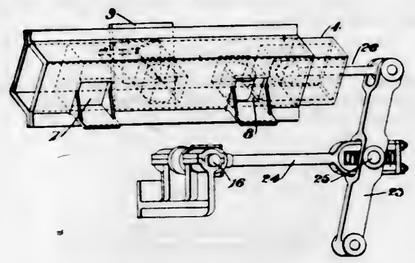
1. An article of the character described comprising two trays situated side by side, each having side-walls, one having adjacent the other an open side, and a lip adjacent said open side.

1,426,658. BENCH BLOCK. JOHN J. MCGUCKIN, Brooklyn, N. Y., assignor to Louis Schwab, New York, N. Y., doing business under name of Stevens & Company. Filed Mar. 16, 1921. Serial No. 452,739. 9 Claims. (Cl. 153—32.)



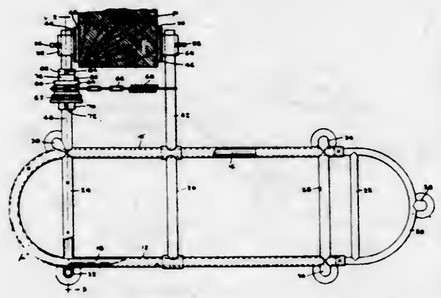
1. A testing and truing bench block provided upon one side with a comparatively roughly finished working face and upon its reverse side with a supplementary plate provided with a highly polished working face.

1,426,659. CAN FEEDING DEVICE. LELAND S. MAEDE, San Francisco, Calif. Filed Apr. 13, 1921. Serial No. 461,070. 6 Claims. (Cl. 198—221.)



1. A can feeding device comprising a casing having a pair of inlet openings and a discharge opening formed therein, said discharge opening being located intermediate the inlet openings, and a plunger having a transverse pocket reciprocally mounted in said casing, said pocket during the reciprocal movement of the plunger alternately registering with the inlet openings and the discharge opening.

1,426,660. WORKBENCH. JOHN F. MAGALSKI, Minneapolis, Minn., assignor of one-half to Albert J. Schmitt, Minneapolis, Minn. Filed Apr. 27, 1921. Serial No. 464,909. 3 Claims. (Cl. 144—286.)



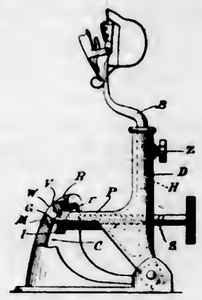
1. A portable workbench comprising two longitudinal parallel pipe members, transverse members joining said pipe members, two longitudinal parallel members adapted to fit telescopically in said pipe members whereby the length of the bench may be varied, and detachable legs for supporting said longitudinal members.

1,426,661. ARTIFICIAL TOOTH. VINCENT MALLON, New York, N. Y., assignor to Dental Manikin Head Co. Inc., a Corporation of New York. Filed Oct. 26, 1920. Serial No. 419,591. 6 Claims. (Cl. 32—30.)



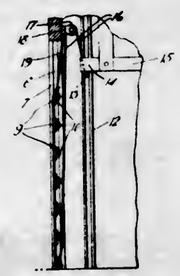
1. An artificial tooth including a formed metallic backing provided with an open top, dove-tail socket on the front face thereof and an upwardly facing seat defining the lower portion of the socket, and a facing provided with a dove-tail projection on the rear side fitted in said socket and engaged by said seat to prevent relative movement of the facing towards the bite end of the tooth, said facing adhering to the backing over a contact surface disposed in more than one plane thereby to increase the area of the adhering surface beyond the area of a flat contacting surface within the projected outlines of the tooth.

1,426,662. DENTAL MANIKIN-HEAD BENCH REST. VINCENT MALLON, New York, N. Y., assignor to Dental Manikin Head Co. Inc., a Corporation of New York. Filed Oct. 26, 1920. Serial No. 419,593. 4 Claims. (Cl. 35—16.)



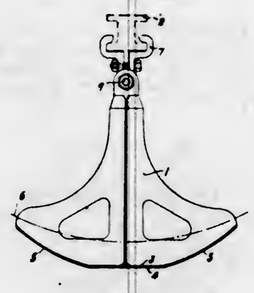
1. Dental manikin head bench rest consisting of a concaved frame, a hollow holder hinged at one end with said frame and means for securing anchorage of said holder upon the concave portion of said frame.

1,426,663. AUTOMATIC ELEVATOR GATE. LYNN ERVINE MARTIN, Paducah, Ky. Filed May 11, 1920. Serial No. 380,655. 1 Claim. (Cl. 187—51.)



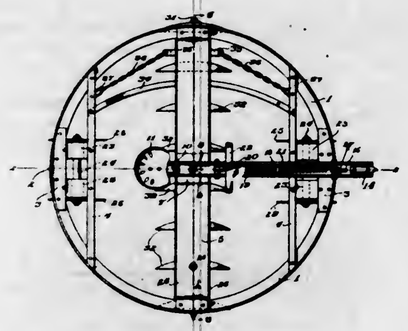
In combination with an elevator, vertical guideways supported adjacent to the elevator, a gate embodying a flexible structure, horizontally disposed bracing elements having connection with the gate and having their ends disposed in the guideways, vertically disposed trackways, an operating rod having its ends positioned in the trackways and having connection with the gate, and an arm carried by the elevator and contacting with the rod to move the gate to an open position.

1,426,664. JACK FOR VEHICLES. ALEXANDER MERCHANT, Jr., Forres, Scotland. Filed July 15, 1921. Serial No. 484,845. 1 Claim. (Cl. 254—94.)



A jack for vehicles comprising a clip engageable with an axle of the vehicle, a strut pivotally connected at one end to said clip and formed at the other end with a shoe presenting a flat face merging into curved tracks, and rolling members fitted to said base.

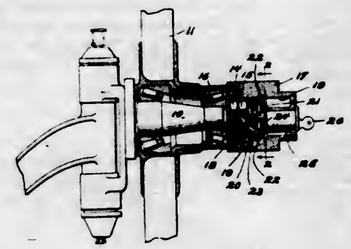
1,426,665. CULTIVATOR. MAURICIO L. NOVO, Guadalupe, Calif. Filed Aug. 12, 1921. Serial No. 491,771. 6 Claims. (Cl. 55—30.)



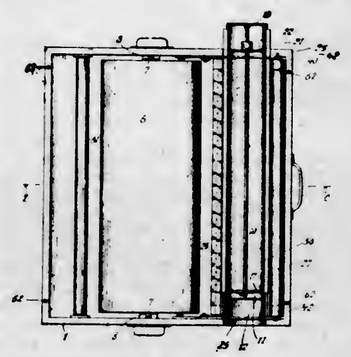
1. In a cultivator, the combination of a circular main frame provided with notches in its outer edge at diametrically opposite points, a tongue pivotally mounted upon the frame at the center thereof and extending over the side of the same, a locking pin mounted for vertical rocking movement upon the tongue and adapted at its lower end to engage either of said openings in the main frame, and means upon the tongue acting on the upper end of said locking pin to set the same.

1,426,666. AUTOMOBILE LOCK. JOHN MCKENNEY PALMER, Springfield, Mass. Filed Sept. 13, 1919. Serial No. 323,583. 4 Claims. (Cl. 70—90.)

1. In a vehicle, the combination with a non-rotatable spindle and wheel rotatably mounted thereon of means for locking the wheel to the spindle to prevent movement of the vehicle, said means consisting in a non-rotatable member comprising abutting right hand and left hand nuts mounted on the spindle, a member non-rotatably connected to the wheel and slidable axially of the wheel and spindle into or out of engagement with said nuts, for the purpose set forth.

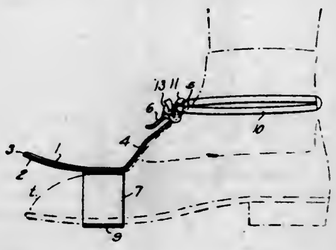


1,426,667. WALL-PAPER CUTTING AND PASTING DEVICE. CAESAR PANZERI, Brooklyn, N. Y. Filed Oct. 29, 1920. Serial No. 420,409. 7 Claims. (Cl. 91—14.)



1. In a device of the class described, a box, a paste applying roll, a shaft to support a roll of paper, a cutter adjacent said shaft, a longitudinally adjustable support for said shaft, and means to abut the end of the roll of paper adjustably mounted on said shaft.

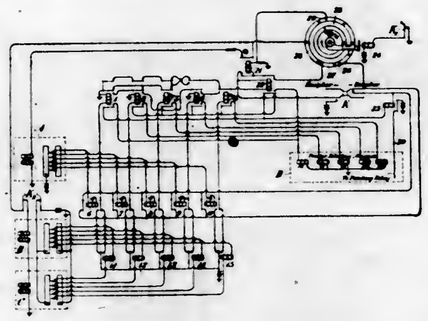
1,426,668. SPRAG FOR SLEDDING. FRANK PARDEE, Jr., Hazleton, Pa., and MARJORIE R. VAN W. LYON, Boston, Mass., assignors to Anthracite Separator Company, a Corporation of Pennsylvania. Filed Mar. 25, 1921. Serial No. 455,460. 5 Claims. (Cl. 36—72.)



1. A sprag for sledding having a surface-engaging member comprising a substantially flat plate, having a sur-

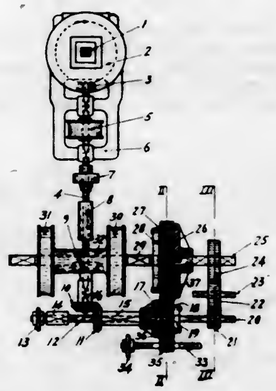
face engaging forward edge at least as wide as the toe portion of the wearer's shoe, a stirrup secured below said member at a location to the rear of said forward edge arranged to support said surface engaging member in such position that the forward edge is located above and extends forward of the toe portion of the wearer's shoe and means for detachably securing the sprag to the shoe of the wearer's foot.

1,426,669. CIPHERING DEVICE. RALPH E. PIERCE, Larchmont, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 23, 1920. Serial No. 398,392. 4 Claims. (Cl. 178—22.)



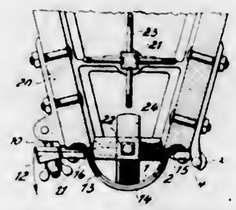
1. A transmitter including a message tape, a transmitter including a cipher tape, a plurality of selecting relays, means for combining the code combinations of said message tape with the code combinations of said cipher tape and setting up the resulting code combinations on said selecting relays, said resulting code combinations representing characters and "stunt" signals, a printer normally controlled by said selecting relays, and means operating whenever said resulting code combination represents a "stunt" signal, said means when operated causing said printer to print an arbitrarily chosen character and causing said cipher tape to be stepped ahead.

1,426,670. ROTARY DRILLING MACHINERY. GURDON T. POLLARD, Denver, Colo. Filed Oct. 3, 1921. Serial No. 505,131. 6 Claims. (Cl. 255—19.)



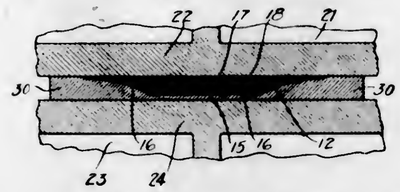
1. In rotary drilling sets, a rotary table, with means for holding drilling tool, double planetary gear sets connecting said table to transmitting power, brake band means controlling speed and direction of said table and also the raising or lowering of drill tool with change gear set as a means for obtaining various speed relations of double differential gear sets.

1,426,671. MACHINE FOR DISTRIBUTING FERTILIZERS. WILHELM PRINTZ, Kettwig-Ruhr, Germany. Filed Dec. 14, 1920. Serial No. 430,808. 3 Claims. (Cl. 221—118.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a machine for dispensing fertilizer, in combination, a suitably supported supply box open below; fertilizer agitating and distributing means in said box; an adjustable readily droppable two-part gate serving as a bottom for said supply box, comprising a trough-shaped member having a series of dispensing perforations in its lower curvature, lips angularly outwardly extending from the upper longitudinal edges of said trough, means for pivotally securing said trough by one of its lips to said supply box and means for detachably clamping the other lip to said supply box; a trough-shaped slide member having perforations similar in extent and location to those in said trough, and means for readily adjustably securing said slide member underneath and in close contact with said trough.

1,426,672. RETREAD FOR TIRES AND METHOD OF MAKING THEM. DOUGLAS R. RADFORD, Los Angeles, Calif. Filed Oct. 20, 1921. Serial No. 508,912. 9 Claims. (Cl. 18—56.)

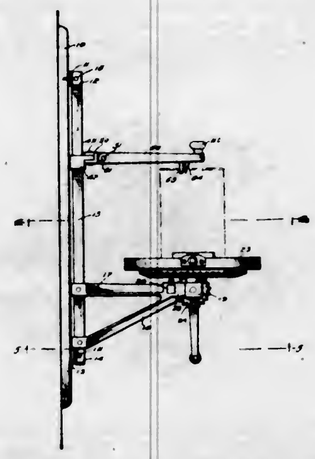


1. In the manufacture of treads for tires, the method of placing a raw breaker strip between a strip of raw tread rubber and a strip of cushion rubber, and subsequently subjecting said combined strips to pressure between suitably formed plates, said plate adjacent to said tread rubber being heated to cause the vulcanization of the outer portion of said tread rubber, and said plate adjacent to said cushion rubber being maintained at a low temperature to prevent the vulcanization of the rubber adjacent thereto.

1,426,673. CAN OPENER. FRED E. REDDER, Hominy, Okla. Filed Mar. 29, 1920. Serial No. 369,710. 3 Claims. (Cl. 30—3.)

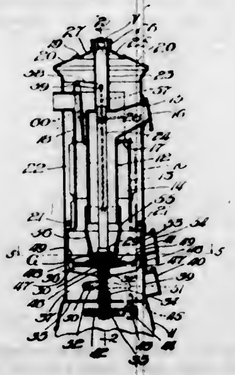
1. In a can opener, means for supporting and rotating a can, a vertical support fixed at its upper and lower

ends and disposed at one side of said can supporting means, a supporting member vertically adjustable upon said support intermediate its ends, a link pivoted to said supporting member to swing in a horizontal plane, a handle pivoted to said link to swing in a vertical plane,



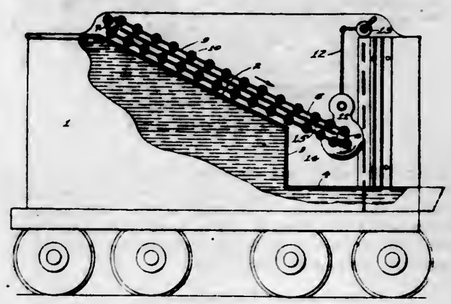
said supporting member, link, and handle, being in substantial alinement when in the normal position, and a cutting implement arranged adjacent the free end of said handle whereby said cutting implement is positioned above said can supporting means.

1,426,674. STOVE AND FURNACE. ERNÖ WALDMANN and STEPHEN HOKKY, Budapest, Hungary, assignors, by mesne assignments, to Charles Heitler and Eugene Waldmann, both of Chicago, Ill. Filed Oct. 31, 1921. Serial No. 511,928. 20 Claims. (Cl. 126—73.)



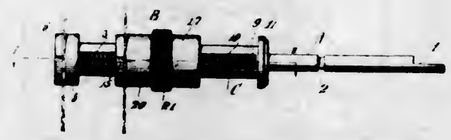
1. The combination with a casing, of a fuel magazine mounted therein and spaced therefrom, an extension at the lower end of said magazine adjustable relatively thereto, a draft tube extending through the magazine from the upper end of said casing to the lower end of said magazine, a collar embracing the lower end of said tube, a series of radiating spider arms carried by said collar having their outer edges sloping inwardly to said collar and provided with a socket in the under side of their junction, an outstanding grate base plate secured to the lower extremities of said spider arms, an outstanding rib extending spirally from the collar to the base plate having the convolutions thereof spaced, a shaft fixed in the socket at the junction of said spider arms, means for rotating said shaft, and a grate ring surrounding the grate base plate and adjustable relatively thereto.

1,426,675. FEEDING DEVICE FOR LOCOMOTIVE TENDERS. LAWRENCE RICHARDSON, Louisville, Ky. Filed July 13, 1920. Serial No. 395,992. 11 Claims. (Cl. 105—232.)



1. A locomotive tender shovel pit having an inclined feeding surface, and a shovel pit at one end thereof disposed below the inclined surface and from which coal is manually removed, and means adjacent said feeding surface for positively feeding coal over the surface into the shovel pit.

1,426,676. ADJUSTABLE TWIN SAW. CHARLES RUDICH, New York, N. Y., assignor, by mesne assignments, to The Kny-Scheerer Corporation of America, New York, N. Y., a Corporation of New York. Filed Feb. 25, 1918. Serial No. 219,011. Renewed Jan. 6, 1922. Serial No. 527,517. 4 Claims. (Cl. 143—155.)

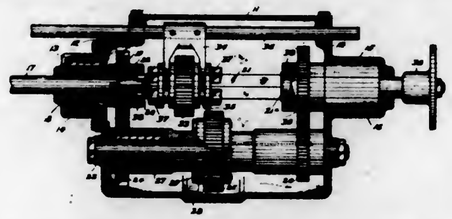


1. An adjustable multiple saw-tool comprising a rotary chuck-shank; a guide-sleeve fixed to said shank and having a longitudinal locking channel; a carriage for mounting a circular saw slidable on said sleeve; teeth formed crosswise at the base of said channel; and a releasable spring-pressed toothed block passing through said channel locking said carriage against relative rotation and permitting the axial adjusting and fixing of said carriage.

1,426,677. TRANSMISSION MECHANISM. CHARLIE SANO, Castorville, Calif. Filed Mar. 17, 1920. Serial No. 366,677. 1 Claim. (Cl. 74—58.)

A power transmission mechanism comprising a drive shaft, a gear keyed on the drive shaft having a clutch face thereon and also having an elongated journal bearing formed therein, in which the drive shaft has substantial mounting, a driven shaft having a short reduced end journaled within said gear, with its inner end lying adjacent the inner end of the drive shaft, a gear freely mounted on the driven shaft and having a clutch face on one end thereof, a sliding gear splined to the driven shaft and having clutch faces on opposite ends thereof, a shifting rod slidably mounted above the driven shaft,

a yoke secured to said shifting rod and engaging the sliding gear for shifting the latter in opposite extreme and intermediate positions when the shifting rod is actuated, an auxiliary shaft, sleeves rotatably mounted on the auxiliary shaft, a gear formed at the outer end of the sleeves, one in constant mesh with said fixed gear

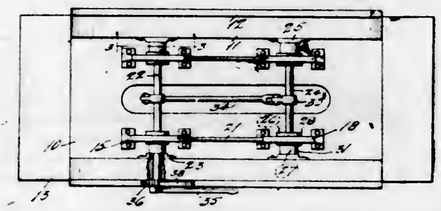


on the drive shaft and the other in constant mesh with the free gear on the driven shaft, and an intermediate gear on the auxiliary shaft, said sleeves each having a flange at its inner end bolted to said intermediate gear, said intermediate gear being arranged for meshing engagement with said sliding gear.

1,426,678. PROCESS OF PRODUCING DENSE AND FIRMLY-ADHERING TIN DEPOSITS. MAX SCHLÖTTER, Berlin, Germany. Filed Jan. 21, 1920. Serial No. 353,113. 10 Claims. (Cl. 204—1.)

1. A process of producing dense and firmly adhering tin deposits, consisting in adding a substance of capillary activity to a tin salt solution, and subjecting the same to the action of an electric current.

1,426,679. AUTOMOBILE TURNTABLE. ANDY SHUSTER, San Antonio, Tex. Filed June 6, 1921. Serial No. 475,301. 5 Claims. (Cl. 254—87.)

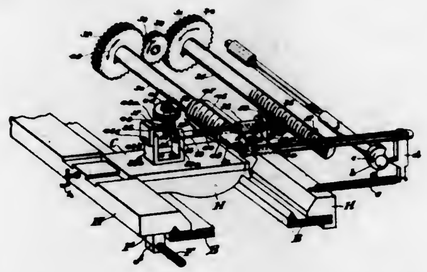


1. In an automobile turn table, a platform, tracks mounted on the platform, vertical lifting members, jack bars mounted in the platform, and means for simultaneously moving the jack bars downwardly and the lifting members upwardly.

1,426,680. GENERATION OF CONVOLUTE LINES IN HOBBING CUTTERS AND THE LIKE. OLIVER G. SIMMONS, Philadelphia, Pa., assignor to Simmons Method-Hob Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 10, 1918. Serial No. 227,784. 45 Claims. (Cl. 90—4.)

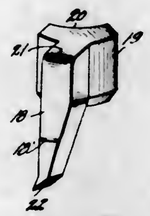
1. A method for generating threads of convolution, which consists in imparting rotary motions to a cutter provided with radial teeth projecting from its periphery in substantially a plane of rotation, and to a blank to be operated upon, functionally correlating the said rotary motions and simultaneously with the rotary motions of the cutter and the blank producing relative rectilinear reciprocating movement between the cutter and the blank.

26. The method of producing a hob, which comprises gashing a blank, generating a thread in the blank and a surface between threads terminating at a gash to form a cutting edge continuous with the cutting edge formed by the intersection of the thread with a gash by rotating the blank and cutter on axes substantially at right angles to each other, feeding the cutter into the blank to a depth less than the depth of the gashing, for each gash feeding the cutter into and withdrawing it from the blank for relieving the thread and said surface, and moving the cutter longitudinally with respect to the blank with its speed of rotation differentially correlated to that of the blank.



41. The combination with means for rotating a blank, of a rotatable shaft whose axis is at an angle to the axis of rotation of said blank, a second shaft splined to said shaft and driven thereby, a cutter rotatable about an axis approximately at right angles to the axis of rotation of said blank, a driving connection between said second shaft and said cutter, means for reciprocating said cutter longitudinally of said first named shaft toward and away from said blank in timed relation to the speed of said blank, a gear fixed to said first named shaft, means extending lengthwise of said blank engaging the teeth of said gear, and means for moving said cutter, said shafts and said gear as a unitary part lengthwise of said blank.

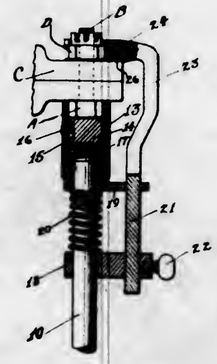
1,426,681. BLADE FOR WELL-DRILLING DEVICES. PRIMUS W. SMITH and JOHN J. BOOKHOUT, Dallas, Tex. Filed Mar. 21, 1921. Serial No. 454,152. 4 Claims. (Cl. 255—73.)



1. A blade for well drilling devices including, a shank having its upper and lower ends beveled to engage a retaining socket, and a blade member extending laterally from the shank and depending therefrom, the lower end of the member being reduced and provided with a transverse cutter.

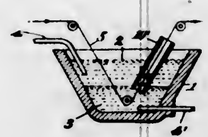
1,426,682. SOCKET WRENCH. OWENS C. SNELL, Dallas, Tex. Filed Oct. 10, 1921. Serial No. 506,777. 2 Claims. (Cl. 81—55.)

1. In a socket wrench, a revoluble shank, a socket fixed on the end of the shank, a bar slidable on the shank, a keeper mounted on the shank between the bar and the socket, a coiled spring surrounding the shank between the bar and the keeper, an extension slidable through the keeper and adjustably fastened in the bar, and a head on the end of the extension overhanging the



socket and provided with a round opening for receiving a nut and an angular socket below the opening for engaging the lower portion of a nut.

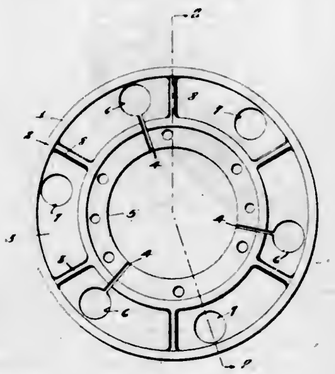
1,426,683. PROCESS FOR COATING METAL OBJECTS WITH A LAYER OF ANOTHER METAL. OTTO STÅLHANE and OLOF OSKAR KRING, Djursholm, Sweden. Filed Apr. 29, 1920. Serial No. 377,714. 3 Claims. (Cl. 91—70.2.)



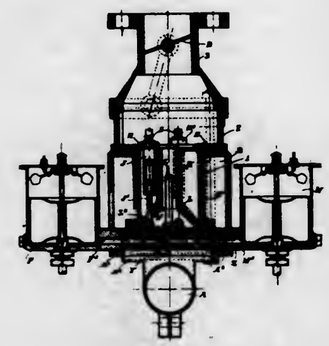
1. Process for coating objects of metal with a layer of another metal, characterized by the fact that a bath consisting partly of the metal with which the objects are to be coated, and partly of a suitable flux is kept in a molten condition by passing an alternating electric current through the flux, that the objects are first dipped in the flux, and afterwards, when they have been sufficiently heated are plunged down into the metal bath under the flux, and passing said alternating electric current through both the flux and the metal bath.

1,426,684. BRAKE DRUM. LOUIS M. STELLMANN, Syracuse, N. Y., assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y., a Corporation of New York. Filed May 25, 1921. Serial No. 472,401. 9 Claims. (Cl. 188—218.)

5. A brake drum for motor vehicles having a cylindrical flange, the periphery of which constitutes the brake surface of the drum, and a discoidal web within the flange and formed with a central opening, the web being formed with perforations therethrough at intervals near the inner face of said flange, and radial slots extending from such perforation to the central opening of the web, substantially as and for the purpose specified.

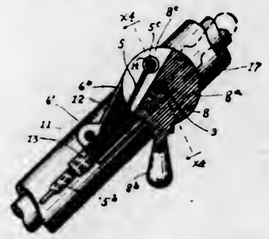


1,426,685. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. FENTON FREDERICK STRATTON, East Croydon, England. Filed Aug. 7, 1917. Serial No. 184,952. 2 Claims. (Cl. 261—18.)



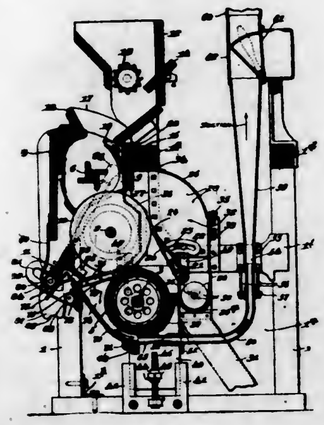
1. In a carburetor, a casing having a plurality of air ports arranged in stepped relation, a multiplicity of nozzle including a main nozzle and a pilot nozzle, an automatic piston valve reciprocable in the casing and operated by the engine suction, means connected with the piston valve for opening and closing the air ports in the casing and the main nozzles in succession, said casing having a base plate formed with a straight channel extending through and across the same, a float chamber for the heavier fuel connected with one end of said passage, a float chamber for the lighter fuel connected with the other end of the passage, the starting nozzle and one of the main nozzles being located in line with said main channel and in communication therewith, means for closing the main channel between said main nozzle and the starting nozzle, and branch channels leading from the main nozzle side of the main channel to the other main nozzles.

1,426,686. CONTROLLING DEVICE. HARRY A. TROUP, Los Angeles, Calif. Original application filed Feb. 21, 1918, Serial No. 218,382. Divided and this application filed June 1, 1920. Serial No. 385,853. 1 Claim. (Cl. 74—39.)



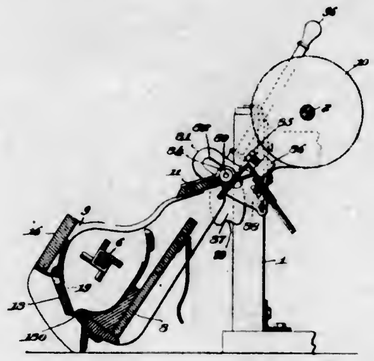
In a controlling device of the character disclosed, a rotatable disk having a peripheral channel forming a guideway for an actuator wire, said actuator wire, a crank pin extending across said channel and to which said wire is secured, a lever extending from the periphery of said disk, a pair of friction cheecks between which said disk is rotatably mounted, a projection having a chamber with converging walls formed by extensions formed on said cheeks and secured together at their ends, a tubular member leading from the terminus of the projection into the chamber, an adjustable screw uniting said cheeks and forming a shaft upon which said disk is rotatably mounted, spring means urging said cheeks into contact with said disk, and securing means on one of said cheeks whereby the device may be secured to vehicle features.

1,426,687. MECHANISM FOR REMOVING USEFUL FIBER FROM SEEDS. ARTHUR A. VARDELL, Dallas, Tex.: Highland Gee Vardell, executrix of said Arthur A. Vardell, deceased. Filed Aug. 22, 1919. Serial No. 319,105. 25 Claims. (Cl. 19—58.)



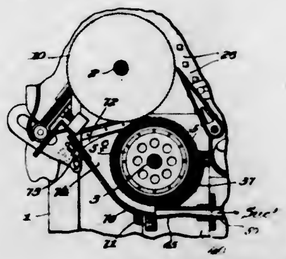
3. A saw gin having therein the usual grate-fall and saws, whereby the material to be ginned is mechanically held in contact with the saws, a rotating doffing-brush beneath the saws, and having deep engagement with the latter and a casing for the saws and brush, a lint trunk leading therefrom, and means independent of the brush for inducing a negative pressure relation to the atmosphere in the lint trunk, whereby to cause an inflow of air into all openings in the casing, and thence into the lint trunk.

1,426,688. BREAST MECHANISM FOR FIBER-TREATING MACHINES, SUCH AS GINS. ARTHUR A. VARDELL, deceased, late of Dallas, Tex., by Highland Gee Vardell, executrix, Dallas, Tex. Original application filed Aug. 22, 1919, Serial No. 319,105. Divided and this application filed Nov. 30, 1920. Serial No. 427,369. 8 Claims. (Cl. 19—55.)



6. A fiber-treating machine having therein a breast pivoted at its lower portion and free to be swung forward at the top, in combination with means for stopping the opening at the top of the breast to prevent spilling its contents when swung forward.

1,426,689. DOFFING MECHANISM FOR GINS. ARTHUR A. VARDELL, deceased, late of Dallas, Tex., by Highland Gee Vardell, executrix, Dallas, Tex. Original application filed Aug. 22, 1919, Serial No. 319,105. Divided and this application filed Dec. 9, 1920. Serial No. 429,562. 9 Claims. (Cl. 19—60.)



2. In combination with a gin saw, a doffer brush comprising an isolated and substantially uninterrupted axially narrow circumferential row of brush tufts arranged substantially in the plane of said saw, the parts being so constructed and arranged that the edge of the saw cuts deeply into the row of bristles.

1,426,690. MACHINE FOR RUBBING TISSUES. MARIUS VERNAY, Cornillon-Beaujeu, France, assignor to Ernest Cadgène, Paterson, N. J. Filed Sept. 2, 1921. Serial No. 497,943. 2 Claims. (Cl. 8—19.)

1. In machines for rubbing tissues the combination of a rubbing member having a wick surrounded by layers of absorbent material, a plate on the plug, funnels, the tubes of which cross the plate and arranged over the wick, a

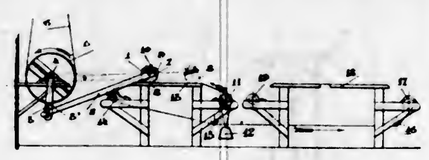


table under the member, and means for giving to the tissue a longitudinal displacement over the table between the latter and the member.

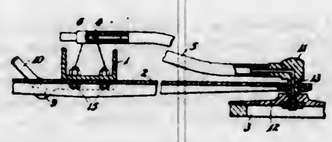
1,426,691. CONVEYING APPARATUS. GEORGE C. VIDETTO, Pittsburgh, Pa. Filed July 3, 1920. Serial No. 395,909. 12 Claims. (Cl. 198—9.)



1. A loading and conveying apparatus comprising a supporting truck, a conveyor pivotally mounted thereon, means for raising and lowering the conveyor, a rotatable loading drum arranged to scoop up material and empty it onto the conveyor, a frame therefor pivotally connected with the conveyor truck, means whereby the frame may be raised and lowered independently of the conveyor into such positions that its gathering portion may be below or above the terminal of the conveyor, and operating mechanism for the conveyor and loading drum.

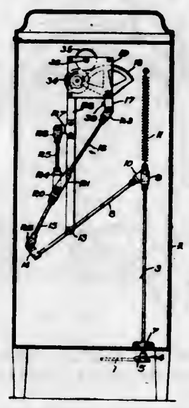
6. The combination with a loading conveyor, of a drum disposed at the receiving end thereof, said drum having its periphery provided with a series of adjacent transversely extending pockets having outer edges for scooping up the material, some of the edges thereof being provided with prongs while the edges of others are substantially smooth, the pronged edges being terminated substantially the same distance from the center of the drum as the smooth edges.

1,426,692. APPARATUS FOR HOLDING AND LIFTING BY MEANS OF SUCKERS. FREDERIC BARNES WALDRON, Prescott, England, assignor to Pilkington Brothers Limited, St. Helens, England, a Limited Liability Company of England. Filed Oct. 6, 1920. Serial No. 415,121. 6 Claims. (Cl. 294—65.)



1. In apparatus for lifting and carrying glass plates, the combination of a frame, suckers thereon adapted to be attached to glass plates by suction and a carrying sling pivoted to the frame on an axis nearer to one side of the frame than to the other.

1,426,693. ATTACHMENT FOR PHONOGRAPHS. WILLIAM H. WEAVER, Pittsfield, Mass. Filed Sept. 13, 1920. Serial No. 409,751. 7 Claims. (Cl. 185—39.)



7. In a device of the class described, the combination with a shaft, of means for revolving the shaft by foot power, and including a rod arranged for reciprocating movement, means for reversing the action of the rod when moved in one direction by a force independent thereof, a lever pivoted to a support and movably secured to said rod, a series of gear members arranged in mesh and adapted when moved to rotate said shaft in one direction, means, including a ratchet and a registering pawl carried by said gear members, for preventing said shaft being reversely rotated, an oscillatory member having an arcuate toothed portion arranged in mesh with one of said gear members, a power transmission member movably connecting said lever with said oscillatory member and including arms arranged end to end, and forming a joint, and means for flexing said power transmission member at said joint to provide a uniform movement of the oscillatory member.

1,426,694. OILPROOF PISTON RING. PATRICK WEIDENFELLER, Aberdeen, S. Dak. Filed May 10, 1920. Serial No. 380,249. 3 Claims. (Cl. 74—109.)

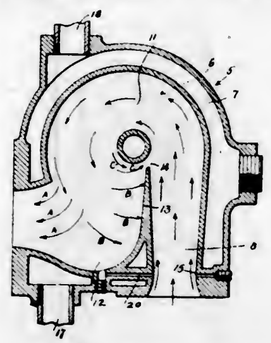


1. A set of piston rings positioned in superposed relation with one ring having its face contacting with the second ring cut to provide an oil groove relatively wide and shallow, and one ring having its outer peripheral face cut to provide an oil groove V-shaped in cross section.

1,426,695. GAS-MIXING DEVICE. ERNEST M. WHITE, Los Angeles, Calif. Original application filed July 8, 1919, Serial No. 243,917. Divided and this application filed Apr. 18, 1921. Serial No. 462,420. 5 Claims. (Cl. 48—180.)

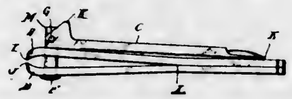
5. A gas mixing device, comprising a casing provided with a semi-annular passage communicating at one of its ends with an intake passage and at its other end with a discharge port and a dead air pocket, said semi-annular passage having its ends connected by a communicating

passage of smaller area than the area theerof and said intake passage being contracted to form a throat adja-



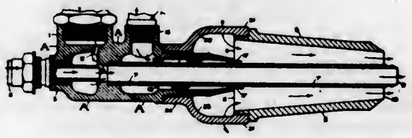
cent its outer end, said dead air pocket having a drain port communicating therefrom to said intake passage adjacent its outer end.

1,426,696. MANICURE IMPLEMENT. NAT WIESENBERG, New York, N. Y. Filed Feb. 1, 1922. Serial No. 533,244. 1 Claim. (Cl. 30—23.)



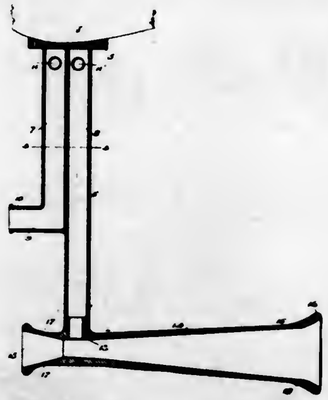
A nail cutter comprising two similar resilient members superimposed and united fixedly at one end; minor portions of said members lying in contact with each other; major portions of said members being divergently arranged and having oppositely disposed cutters on their free ends extend toward each other; each of said members being apertured adjacent their free ends, a swivel bolt in said aperture; the upper end of said bolt having oppositely disposed flat surfaces and being transversely apertured whereby it may be pivotally secured in the bifurcated end of an operating cam lever, the bolt being of sufficient length and thickness to serve as a guard for the corners and cam elements on the bifurcated end of said lever.

1,426,697. COMBINED ATOMIZER AND BURNER FOR LIQUID FUELS. ALBERT ERNEST WINDLE, Gravelly Hill, Birmingham, England. Filed June 3, 1919. Serial No. 301,468. 2 Claims. (Cl. 158—76.)



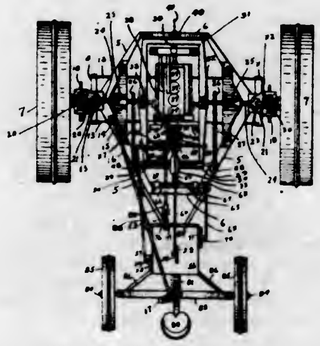
1. A combined atomizer and burner for heavy fuels comprising a casing having an opening therethrough, a primary air inlet tube leading into one end of said casing, a fuel inlet passage in said casing, said fuel inlet passage terminating in an annular chamber disposed around the discharge end of the primary air inlet tube, an inner discharge nozzle leading from said chamber for the passage of fuel and primary air, and on the outer tube for secondary air surrounding the inner discharge nozzle, the end of the inner discharge nozzle projecting beyond the end of said outer tube.

1,426,698. SPEED METER FOR AEROPLANES. ALBERT F. ZAHM, Washington, D. C. Filed Feb. 20, 1918. Serial No. 218,233. 5 Claims. (Cl. 73—2.)



1. A gauge operating device including a base, a pressure tube and a suction tube formed integral therewith, the pressure tube being of shorter length than the suction tube and having an inlet at right angles to the body thereof, and an outlet adjacent the base, said suction tube being provided with an inlet adjacent the base thereof, and a Venturi tube attached to the outer end of the suction tube, the axial line of which is substantially parallel to the axial line of the inlet mouth of the pressure tube.

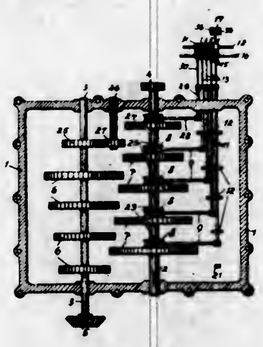
1,426,699. TRACTOR. PAUL R. ZIECHE, Moville Township, Woodbury County, Iowa. Filed Aug. 19, 1918, Serial No. 250,464. Renewed Apr. 17, 1922. Serial No. 553,924. 3 Claims. (Cl. 180—54.)



1. In a motor-vehicle, a main-frame, traction-wheels, a motor, driving connections between the motor and traction-wheels the motor being so supported by the main-frame that it may be tilted either laterally or longitudinally, with respect to the main-frame, and means for tilting and preventing tilting of the motor.

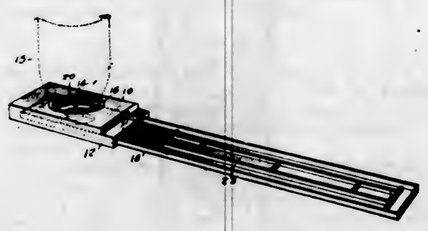
1,426,700. CHANGE-SPEED GEAR. ADOLF ZWYSSIG, Sisikon, Switzerland. Filed Oct. 21, 1921. Serial No. 509,328. 4 Claims. (Cl. 74—81.)

1. An improved device for the operation of change speed gear, specially for motor cars comprising in combination with the box of the change speed gear and with the driving shaft upon which the change wheels are loosely mounted so that they can be displaced in longitudinal direction and with the transmission shaft, the transmission wheels keyed upon the same, a two-armed rock lever for each change wheel, an articulated lever system connecting the lower arm of this lever with the corresponding change wheel, a cover plate over said two-armed levers having a longitudinal slot and transverse slots, one



for each lever, a pedal lever loosely mounted upon a horizontal rod and projecting with its upper end through said longitudinal slot so that it can be brought over any one of said two-armed levers and a lower arm of said pedal lever adapted to act upon the corresponding two-armed lever when said pedal lever is being depressed so that the two-armed lever is oscillated and throws the corresponding change wheel in gear with its transmission wheel.

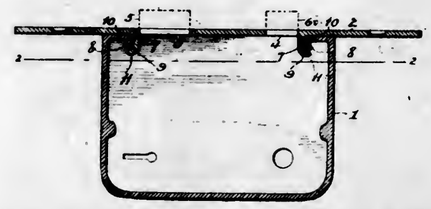
1,426,701. BEE FEEDER. LEWIS H. ACHENBACH, Pottsville, Pa. Filed Feb. 13, 1922. Serial No. 536,149. 7 Claims. (Cl. 6—5.)



1. A bee feeder comprising a base block having a hole for the reception of a liquid container and a removable tray into which a nozzle from the container extends.

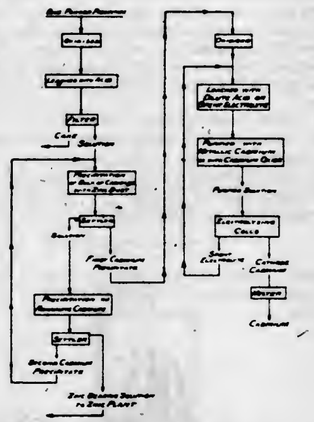
5. A bee feeder comprising a base block having a chambered underside which opens into the hive at one end and the block having an opening from its top into such chamber, a cap within such opening having a nozzle terminating in the chamber, said cap having means for the attachment of a jar, a tray having a bottom surface below the open bottom of the nozzle, and a wire coil depending from the nozzle with adjacent coils less than a bee space apart.

1,426,702. LOCK. PETER F. AUGENBRAUN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Aug. 29, 1921. Serial No. 496,286. 7 Claims. (Cl. 20—16.)



3. The combination with a lock casing provided therein with an inwardly projecting lug, of a sheet metal face plate provided with an integral tongue entering said casing, said integral tongue having a lip portion engaging the free end of said inwardly projecting lug in the casing.

1,426,703. ELECTROLYTIC TREATMENT OF ORES CONTAINING ZINC, CADMIUM, AND COPPER. DAVID AVERY, Melbourne, Victoria, and ROYALE H. STEVENS and ROLAND T. D. WILLIAMS, Risdon, Hobart, Tasmania, Australia, assignors to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Filed Mar. 16, 1920. Serial No. 366,362. 13 Claims. (Cl. 204—15.)

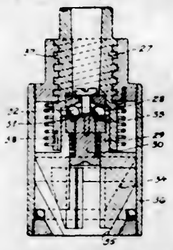


1. A process for the treatment of blue powder precipitate obtained in the purifying of zinc bearing solutions for electrolysis, comprising oxidizing the precipitate, dissolving the metal oxides in dilute sulphuric acid sufficient to dissolve a maximum amount of zinc and cadmium, separating the cadmium and zinc bearing solutions from the residue, and recovering the cadmium and zinc from the solution so obtained.

1,426,704. CHUCK. JOHAN ARVID AXELSSON, Eskilstuna, Sweden. Filed Jan. 8, 1921. Serial No. 435,858. 7 Claims. (Cl. 279—69.)

1. A chuck constructed to utilize the axial and tangential pressure on the tool during working for clamping the jaws around the tool, comprising a jaw supporting member having inclined guideways, jaws slidably mounted in said guideways, anti-friction members, and means

having oblique faces cooperating with said anti-friction members for causing a pressing down of said jaws in



said inclined guideways to thereby firmly clamp the tool when the latter is subjected to either axial or tangential pressure.

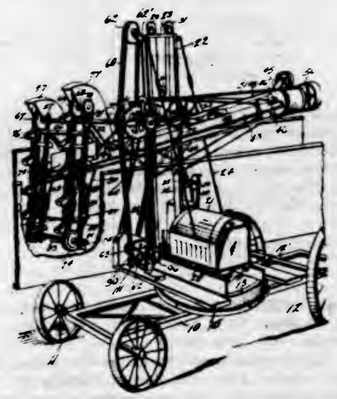
1,426,705. FULCRUM AND METHOD OF MAKING THE SAME. CARL E. BAUER, Hammond, Ind. Filed Oct. 18, 1920. Serial No. 417,639. 7 Claims. (Cl. 29—164.)



1. The method of making brake beam fulcrums which consists in preparing duplicate flat bars, then punching in the two bar openings of a size less than the diameter of the rod to be accommodated therein, then inserting a metallic filler adapted to occupy the opening thus formed, then forging the bars to increase the size of the opening, and to spread and rivet the filler around the sides of the opening.

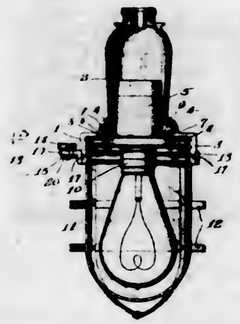
6. A brake beam fulcrum comprising in combination two flat bars bent to provide means for attachment to a brake beam, each bar having an integral lateral projection, the projections on the two bars interfitting and being forged to rivet together the two bars and provide a flaring seat for a tension rod.

1,426,706. UNLOADING APPARATUS. CLIFFORD H. BEATTIE, Waxahachie, Tex. Filed Sept. 4, 1920. Serial No. 408,248. 17 Claims. (Cl. 198—88.)



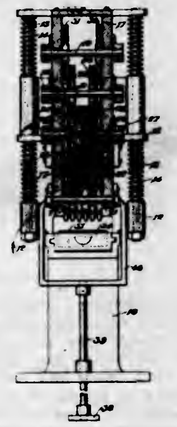
1. In an unloading apparatus, the combination of an upright portable support, a carriage mounted to slide vertically in said support, an elongated conveyor extending through the carriage, an elevator depending from one end of the conveyor and having its upper end discharging onto said conveyor, driving means for the conveyor and elevator mounted on the carriage, and self contained means mounted on said support for imparting a slow forward movement to the same, whereby the elevator is fed to the work.

1,426,707. PORTABLE ELECTRIC LAMP. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed July 13, 1917. Serial No. 180,321. 1 Claim. (Cl. 240—11.)



An electric hand lamp comprising a discoidal base, and a hollow handle extending rearwardly from the base, the passage of the handle opening through the base and the base having an internal annular flange extending into the passage of the handle where it opens through the base, a lamp socket located in the handle and secured to the front face of the internal annular flange, a lamp supported in the socket, and a globe carried by the base, substantially as and for the purpose described.

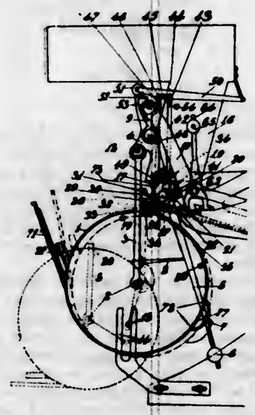
1,426,708. PRINTING DEVICE. MICHAEL BONSIAKOS, San Francisco, Calif. Filed Apr. 27, 1921. Serial No. 464,971. 4 Claims. (Cl. 101—111.)



1. A printing device comprising a supporting frame, a printing head vertically slidable on said frame, a plurality of sets of type carried within the head, means for selectively disposing type of the various sets in a printing

position, a table disposed beneath said head comprising a flat printing face and an inking face, and a mounting for said table whereby depression of the head may force the set type against the ink pad or an article on the printing face.

1,426,709. WEIGHING TANK FOR AUTOMATIC WEIGHING MACHINES. BALTUS BOULOGNE, Soerabaia, Java, Dutch East Indies. Filed Aug. 17, 1921. Serial No. 493,057. 12 Claims. (Cl. 249—54.)

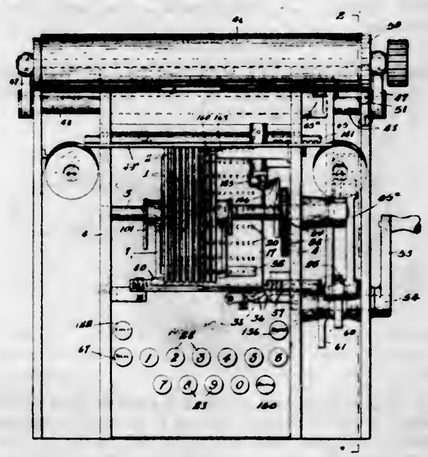


1. Weighing tank for automatic weighing machines with tare-weighing, for liquid and for granular material, which weighing tank is suspended from a weighing beam and rotatable upon a horizontal axis and provided with stops or other suitable means to limit the extreme positions for charging and for pouring, in respect to the suspension members, whilst further on, means have been provided of such a nature that they compel the weighing tank to accomplish the first part of its movement under the control of the movement of the weighing beam and after this to release the weighing tank during its further turning towards the extreme positions, for which further rotation the weighing tank is made in such a manner that it will be accomplished automatically, in consequence of its search for equilibrium.

1,426,710. CALCULATING MACHINE. WILLIAM H. BROWN, Syracuse, N. Y., assignor to H. H. Franklin Mfg. Company, Syracuse, N. Y., a Corporation of New York. Filed Feb. 19, 1920. Serial No. 359,817. 32 Claims. (Cl. 235—60.)

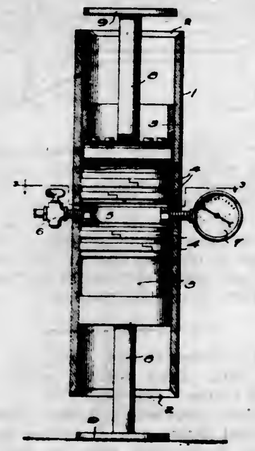
1. In a calculating machine, the combination of a shaft, a series of computers, a series of indicators mounted on the shaft and movable about the same, the computers being arranged alternately with the indicators and being paired therewith, means for transferring the movement of the indicators in one direction to the computers, means for actuating the indicators, and means for controlling the extent of movement of the indicators, substantially as and for the purpose specified.

12. In a calculating machine, the combination of a shaft, a series of computers rotatably mounted on the shaft, and a series of indicators loosely mounted on the shaft and being paired with the computers, means for rocking the indicators about the shaft, means for transferring the movement thereof to the companion computers, means for limiting the movement of the indicators by the actuating means, and means detachably connecting the actuating means and the indicators whereby the indicators are released from the actuating means when said indicators are limited in their movement, substantially as and for the purpose described.



18. In a calculating machine, the combination of a series of computers, each having a total stop, a series of indicators paired with the computers, means for actuating and determining the extent of movement of the indicators, means for transferring the movement of the indicators to the computers, said means being arranged to also coact with the stops of the computers and total mechanism comprising means operable to lock the computers from movement and shift the transferring means in position to coact only with said stops, whereby the indicators are limited in their movement by the stops when moved by the actuating means, substantially as and for the purpose set forth.

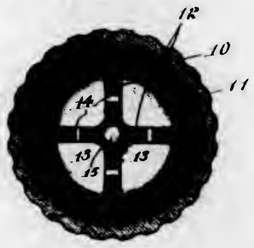
1,426,711. APPARATUS FOR TESTING PISTON RINGS. JAY EDGAR BUTLER, Baltimore, Md., assignor to Victor Piston Ring Company, Baltimore, Md., a Corporation of Maryland. Filed Oct. 27, 1921. Serial No. 510,706. 5 Claims. (Cl. 73—51.)



1. An apparatus for testing piston rings comprising a cylinder, having open ends, a pair of pistons mounted

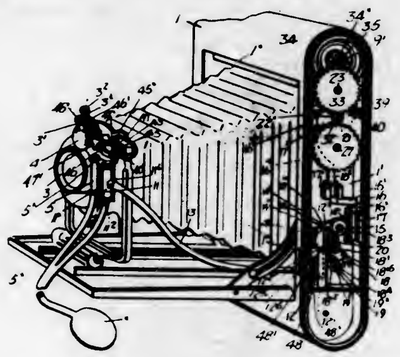
therein, said pistons being provided with grooves for the reception of the rings to be tested, piston rods connected to said pistons and projecting toward the respective ends of the cylinder, and pedals formed on the outer ends of said rods.

1,426,712. GOLF BALL. AUGUSTUS S. CHATFIELD, New York, N. Y. Filed Sept. 19, 1919. Serial No. 324,774. 13 Claims. (Cl. 46—4.)



1. In a resilient ball, a spherical resilient body portion having a hollow central core and a plurality of resilient supports for said body portion located in the core and subdividing the core into a plurality of pockets, the said resilient supports traversing the core in a plurality of directions, the supports being attached to said body portion.

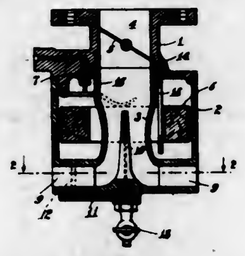
1,426,713. CAMERA. JOSEPH PACY CLEAL, Toronto, Ontario, and CHARLES HARRISON GIBBONS, Victoria, British Columbia, Canada. Filed Aug. 22, 1918. Serial No. 251,031. 11 Claims. (Cl. 242—71.)



1. In a film feeding device for cameras, the combination with the motor driven film rolls, of a pneumatic plunger arranged in the camera case, a rotating stop member connected with the motor, a pawl adapted to engage said stop member to arrest the motor, means operated by said pneumatic plunger adapted to strike the pawl to release it from engagement with said rotating stop member, and means operated by the motor for returning the pawl to its stop position.

1,426,714. CARBURETOR. WILLIAM H. COLLIER, Sandusky, Ohio. Filed June 7, 1917. Serial No. 173,303. 3 Claims. (Cl. 261—79.)

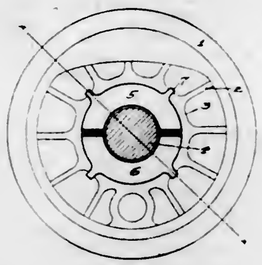
1. A carburetor comprising a member provided with a normally vertical mixing passage, having its walls contracted at an intermediate point to form a Venturi throat, a plurality of lateral air inlet passages leading tangentially into the lower part of said mixing passage, and a fuel jet nozzle centrally disposed within said mixing passage and projecting upwardly into said Venturi throat portion.



2. In a carburetor, a bowl member having a central mixing passage and a surrounding annular fuel space, and having beneath that fuel space a plurality of lateral air inlet passages leading from the outside to said central mixing passage and arranged substantially tangentially with respect to said mixing passage, and a nozzle centrally disposed within said mixing passage and connected to said fuel space.

3. In a carburetor, a bowl member having a central mixing passage and a surrounding annular fuel space, and having beneath that fuel space a plurality of lateral air inlet passages leading from the outside to said central mixing passage and arranged substantially tangentially with respect to said mixing passage, a nozzle centrally disposed within said mixing passage and projecting up thereinto from the bottom of the bowl member, and a duct connecting said nozzle with said fuel space and passing through the bottom of the bowl member and through one of the walls between said inlet passages.

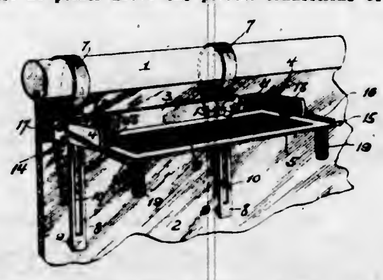
1,426,715. HUB LINER FOR RAILWAY LOCOMOTIVE WHEELS. HOWARD CRAMER, Jacksonville, Fla., assignor of one-half to Lawrence Richardson, Louisville, Ky. Filed Aug. 11, 1920. Serial No. 402,927. 7 Claims. (Cl. 64—25.)



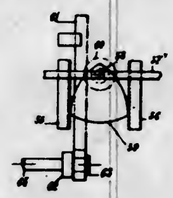
1. A liner of the character described adapted to be interposed between a railway journal box and a wheel, said liner having a body and extensions projecting between the spokes of the wheel accessible from the outside thereof, said extensions being welded to the railway wheel.

1,426,716. ATTACHMENT FOR WINDSHIELDS FOR AUTOMOBILES. BURR CUSTER, Marion, Ind. Filed Apr. 27, 1921. Serial No. 464,816. 5 Claims. (Cl. 296—97.)

2. A guard attachment for wind shields, comprising supporting means attachable to a wind-shield, a supporting bracket having vertically adjustable connection with said supporting means, a guard pivotally mounted in said supporting bracket and springs connected with said bracket at points above the pivotal connections of the guard with said supporting bracket and with the guard and operable to hold the latter in operative position or in inoperative position.

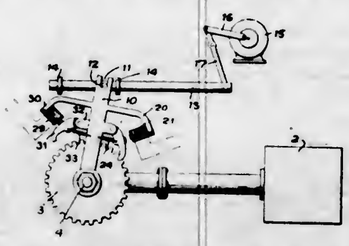


1,426,717. WEAVING LOOM. ADRIEN DAVID, St. Etienne, France. Filed Jan. 5, 1920. Serial No. 349,462. 4 Claims. (Cl. 139—19.)



1. In a narrow wear loom, the combination of a batten, a shuttle connected therewith, angle irons secured to the rear face of the batten, a shaft having at one end a vertically disposed cam extending between and contacting with said angle irons, a pinion mounted on the opposite end of said shaft, a vertically reciprocating rack geared to said pinion, and means for varying the stroke of the rack.

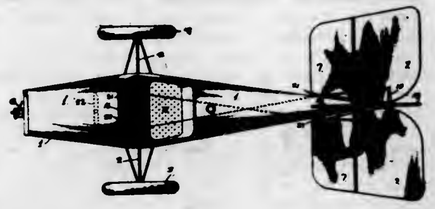
1,426,718. FLOW-REGULATING APPARATUS. LUIS DE FLOREZ, Boston, Mass. Filed Sept. 3, 1919. Serial No. 321,422. 6 Claims. (Cl. 137—139.)



6. In apparatus for regulating the flow through a valve opening, the combination of means operative independently of the extent of valve opening for periodically changing in one direction the extent of said opening, and means operative upon the occurrence of a predetermined extent of opening for changing said extent of opening in the opposite direction and at a more rapid rate than said periodic changing.

1,426,719. VEHICLE. WALDEMAR E. DOYAL and RALPH HAGOPIAN, Berkeley, Calif. Filed Dec. 20, 1919. Serial No. 348,219. 4 Claims. (Cl. 180—1.)

1. As an article of manufacture, a vehicle for ground travel comprising a wingless body; a pair of parallel supporting wheels mounted upon said body slightly in advance of the center of gravity thereof; an air propeller operatively mounted upon the body to propel the vehicle along the ground by air displacement; horizontal elevating rudders pivotally mounted upon the rearward end of the vehicle for balancing the body upon the wheels by air resistance against said rudders when the vehicle is in



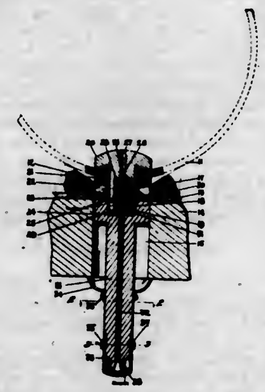
motion; a vertically disposed steering rudder mounted between the elevating rudders to operate by air resistance thereagainst to steer the course of the vehicle, the balancing and the steering of the vehicle along the ground giving a sensation similar to flying without the attendant dangers of actual flight and thereby affording a safe means of practice preliminary to flying.

1,426,720. PROCESS OF FORMING IMITATION LEATHER UPHOLSTERY AND THE PRODUCT PRODUCED THEREBY. RUSSELL DWIGHT, Wyoming, Ohio. Filed Sept. 29, 1919. Serial No. 327,272. 3 Claims. (Cl. 154—2.)



1. The process of manufacturing artificial leather upholstery which consists in stitching together two pieces of cloth or other suitable material with rows of stitches, then applying artificial leather composition to one of the exposed surfaces and then filling the openings between the rows of stitches with suitable padding material.

1,426,721. TIRE VALVE. EMIL ERIK, Ossining, N. Y., assignor of one-fourth to Barney Pindek and one-fourth to Isador Pindek, both of Brooklyn, N. Y. Filed Oct. 22, 1921. Serial No. 509,624. 3 Claims. (Cl. 152—12.)



3. In combination with a tire valve having a stem, a protective closure for the end of the stem, channelled

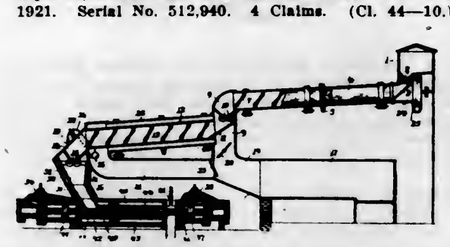
means on said closure, and an element extending alternately into and out of said channel means for locking the closure to said stem.

1,426,722. MOTION-PICTURE APPARATUS. HENRY R. EVANS, New York, N. Y.; Adele Kean Evans, executrix of said Henry R. Evans, deceased. Filed July 27, 1916, Serial No. 111,606. Renewed Jan. 7, 1922. Serial No. 527,779. 3 Claims. (Cl. 88—24.)



1. In motion picture apparatus, the combination of a gate past which a film is to be moved, a source of light, an objective, optical means for condensing the light rays and directing them upon the gate and thence in the form of a slightly divergent light beam to the objective, said objective causing the light rays to form an apex beyond the same, whereby the rays converging from the objective form a relatively small apex, and a shutter at said apex for intermittently intercepting the light beam at said apex.

1,426,723. PROCESS AND APPARATUS FOR THE CONVERSION OF PEAT, LIGNITE, AND OTHER CARBONACEOUS SUBSTANCES INTO ARTIFICIAL COAL. OLPHA A. FORD, Malden, Mass., assignor of one-half to Margaret J. Thompson, Kennebunk, Me. Filed Sept. 23, 1916, Serial No. 121,877. Renewed Nov. 4, 1921. Serial No. 512,940. 4 Claims. (Cl. 44—10.)



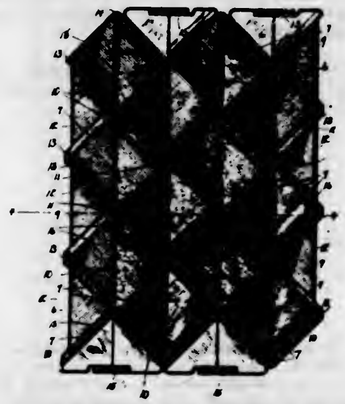
3. The herein described means for converting peat, lignite and other carbonaceous substances into artificial coal, comprising means for giving the material a preliminary dehydration, means for giving to the material a second dehydration, means for receiving the material from the first dehydrating means, pulverising it and delivering it to the second dehydrating means, means for receiving the material from the second dehydrating means and giving it a final pulverization, and means for variably delivering intermixed atmospheric air and hot products to the second dehydrating means, said pulverising means being in the direct path of travel of the gases and material, and both being at all times enclosed within the kiln body.

1,426,724. COLLAR OR THE LIKE FOR JOINING HARD-METAL PIPES. THOMAS LILLIE FYFFE, Dundee, Scotland. Filed May 5, 1920. Serial No. 378,986. 1 Claim. (Cl. 285—120.)

Means for joining two hard metal pipes comprising a pair of collars each flared or swelled at one end, means for securing the collars to the pipes to be joined, a hollow hard metal core adapted to lie in the swelled ends of the collars, a seating of soft metal adapted to lie between the collars and the core, means for drawing the collars towards one another so as to grip the seating between the collars and core, said core being provided with a central rib the internal surface of the collars and the external surface of the core being spherical in form.

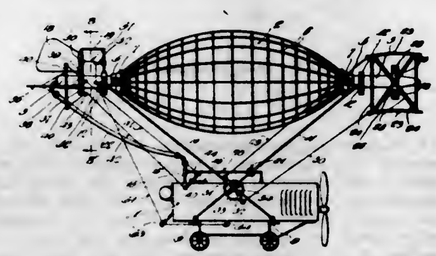


1,426,725. RADIATOR FOR INTERNAL-COMBUSTION ENGINES. FREDERICK GARGUILO, New Haven, Conn. Filed June 16, 1921. Serial No. 477,900. 3 Claims. (Cl. 257—130.)



2. A radiator-unit consisting of a corrugated, sheet-metal strip folded upon itself and having its ends secured together, the said sheet-metal strip having its edges offset to form combined spacing-and-assembling flanges, and the strip being transversely corrugated from edge to edge throughout its length at an angle to its longitudinal axis, and the apices of the corrugations on the air-passage side of the strip being flattened to permit the apices of the flanges on the said side of the strip to make contact.

1,426,726. DIRIGIBLE BALLOON. JESSE W. GILBERT, Salina, Kans. Filed July 25, 1921. Serial No. 487,283. 7 Claims. (Cl. 244—6.)



1. A dirigible balloon comprising a gas bag, a beam extending through said bag, yokes loosely mounted upon said beam in front of and to the rear of said bag, a car beneath said bag, and hanger rods loosely connected with the forward and rear end portions of said car and extending upwardly in crossed relation and loosely connected with said yokes.

1,426,727. BRASSIÈRE. ALINE M. GODCHAUX, New Orleans, La. Filed Apr. 30, 1920. Serial No. 377,814. 2 Claims. (Cl. 2—73.)



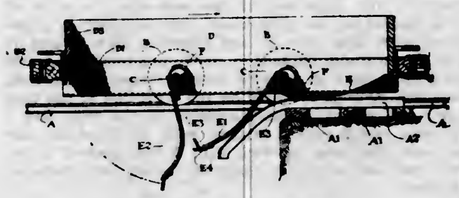
1. A combination brassière and corset cover, comprising three horizontal continuous portions fastening in the back, a top compressing portion composed of strong material with a pair of shoulder straps inserted thereon adapted to press the busts of the wearer downwardly, an intermediate breast receiving portion relatively wider and a lowermost waist line forming portion comprising a plurality of thicknesses and provided with a plurality of darts extending upwardly into the intermediate section to make the lower portion of the garment circumferentially form-fitting and to make the lower front portion of the garment pocketlike to receive part of the body.

1,426,728. SANITARY BOTTLE STOPPER. ANDREW W. GRAHAM, Buffalo, N. Y. Filed Dec. 8, 1920. Serial No. 429,237. 7 Claims. (Cl. 215—51.)



1. A stopper of the class described consisting of outer and inner layers of paper like material and an intermediate reinforcing layer of flexible metal, all of said layers having coterminous edges whereby the edge portions of the stopper will be retained in shape by the reinforcement after forcible shaping to fit a bottle.

1,426,729. DUMPING CAR. CHARLES A. GRIFFITH, Knoxville, Tenn. Filed Jan. 11, 1921. Serial No. 436,448. 4 Claims. (Cl. 214—63.)



1. The combination with a car body, of two doors having their forward parts hinged on lines which are horizontal and transverse to the length of the car body and the forward of said doors having its rear edge meeting the forward edge of the other door, and the rear of said meeting edges being turned downward below its hinge line and the other of said edges being turned upward, and one of said meeting edges being of hook-form, and the other of said edges being formed for inter-locking with said hook-form edge, substantially as described.

1,426,730. METHOD OF HOT-ROLLING EXTREMELY THIN STEEL SHEETS. WILLIAM E. HANNA, Brackenridge, Pa., assignor to Valley Holding Corporation, Brackenridge, Pa., a Corporation of Pennsylvania. Filed Dec. 6, 1920. Serial No. 428,487. 2 Claims. (Cl. 29—18.)

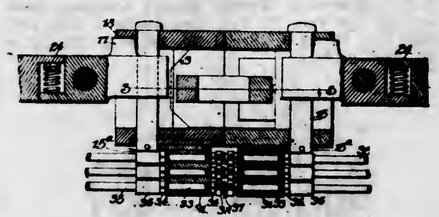
1. The method which consists in grouping two silicon steel sheets while cold, in placing such group between pickled bars of mild steel raised to rolling temperature, in rolling the pack thus made up to 72 inches or more in length, in separating the pack, cutting each of the silicon steel sheets into two pieces, re-grouping two or more of these cut sheets together and inserting such group between pickled bars or relatively heavy sheets of mild steel, raised to rolling temperature and then rolling the pack to such length as will give the desired thickness to the silicon steel sheets.

1,426,731. GAS COCK. GEORGE H. HARRIS, Utica, N. Y., assignor to Utica Valve and Fixture Company, Utica, N. Y., a Corporation of New York. Filed Mar. 1, 1919. Serial No. 280,077. 6 Claims. (Cl. 251—112.)



1. In a gas cock, a casing having an aperture therein, a key disposed in said aperture, spring means for holding said key within said aperture, a lateral recess in the wall of said casing, a lateral recess in said key adapted to co-operate with the recess in said wall, whereby to permit the passage of gas when the key is turned into open position, and means for stopping the turning of the key in either full open or full closed position.

1,426,732. COMBINATION CAR AND TRAIN-PIPE COUPLING. ONESIME HEBERT, Oklahoma, Okla., assignor to Universal Car and Hose Coupler Company, Phoenix, Ariz., a Corporation. Filed Dec. 8, 1917. Serial No. 205,103. 4 Claims. (Cl. 213—40.)

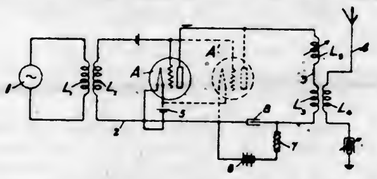


3. A car coupler head provided with a detachably mounted pipe block and a pin passing vertically through said head for connecting said head to a draw bar, said pin serving also as an abutment for said pipe block.

1,426,733. METHOD AND MEANS FOR PREVENTING AMPLIFIERS FROM OSCILLATING. RAYMOND A. HEISING, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 14, 1918. Serial No. 217,189. 6 Claims. (Cl. 179—171.)

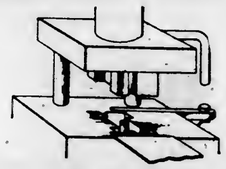
2. A transmission system adapted to amplify waves in substantially the same form as they are received compris-

ing means for preventing free oscillations in a vacuum tube amplifier having negligible external input and output resistance, which means consists of an effective in-



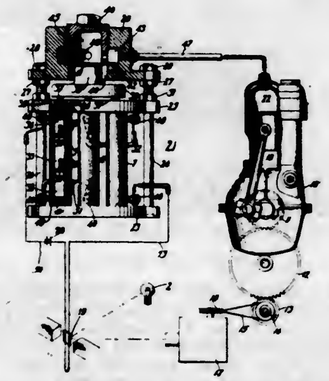
ductance in the output circuit having a ratio to the effective inductance of the input circuit not less than the amplifying ratio of the tube.

1,426,734. METHOD OF MANUFACTURING AUDIONS. WILLIAM F. HENDAY, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1919. Serial No. 293,838. 5 Claims. (Cl. 250—27.)



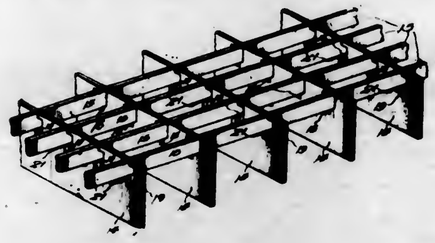
1. The method of making an electrode unit which comprises cutting out in blank two surfaces adapted to serve as vacuum tube electrode surfaces with an integral collar portion connecting their lower ends, bending said surfaces into parallel opposed relation, and bending said collar portion to embrace a support, joining the upper ends of the surfaces by a metallic connection, associating insulating material with said connection and supporting other electrodes from said insulating material.

1,426,735. METHOD AND APPARATUS FOR RECORDING PRESSURE. WILLIAM FERRIS HENDEY, New York, and CHARLES E. REDDIG, Richmond Hill, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 16, 1919. Serial No. 345,437. 16 Claims. (Cl. 234—21.)



4. A pressure recording apparatus for gas and heat engines and the like comprising a pressure actuated element, a resistance device in engagement with said element, a circuit including said resistance device and means actuated commensurate with the varying current in the circuit for deflecting a beam of light upon a photographic film, and means for actuating said film in synchrony with the piston of the engine.

1,426,736. GRATING. WILLIAM H. HESS, Chicago, Ill. Filed Feb. 10, 1921. Serial No. 443,896. 18 Claims. (Cl. 189—82.)



1. A grating formed of a plurality of series of bars extending in intersecting relation, the bars of one series containing apertures presenting shoulders, said shoulders being located between the upper and lower ends of said apertures and the bars of said other series being inserted through said apertures into intersecting relation with the bars containing said apertures and extending across said shoulders, and means for holding said bars in said intersecting relation.

1,426,737. AUTOMATICALLY-OPERATING WEATHER STOP. JOHN JAMES HINES and HENRY ROBERT WAY, Halifax, Nova Scotia, Canada. Filed Feb. 19, 1921. Serial No. 446,352. 2 Claims. (Cl. 20—67.)

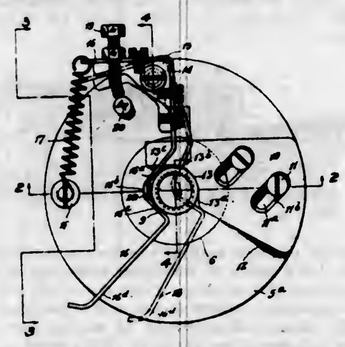


1. In an automatically operated weather stop, the combination of a back plate, an outer stationary casing secured to the upper end of the back plate, a series of ribs formed on the back plate, rods arranged in alignment with each other in and rotatable with respect to the ribs, a clutch adapted to couple and rotate said rods as a unit, cams of eccentric form arranged on the rods, members movably arranged on the lower end of the back plate and having surfaces actuable by the cams and a movable casing formed integral with the members; one of said rods being provided with a trip adapted to rotate the rods when the clutch is thrown into operative position.

1,426,738. BLANK HOLDING AND EJECTING MECHANISM. HENRY C. HOOK, Windsor, Vt., assignor, by mesne assignments, to Aluminum Manufactures, Incorporated, Cleveland, Ohio, a Corporation of Delaware. Filed Aug. 30, 1920. Serial No. 407,029. 8 Claims. (Cl. 90—33.)

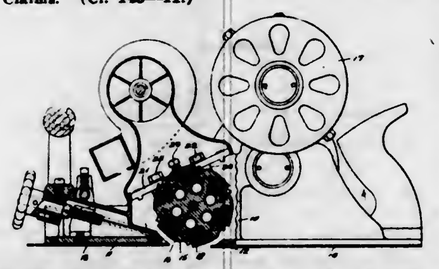
1. In a blank holding and ejecting mechanism for presses and the like in combination a platen, a plate adjustably mounted thereon and adapted to form a stop for a blank, and a spring actuated member pivotally

mounted on the said platen and cooperable with the said plate to retain a blank in operative position relative to



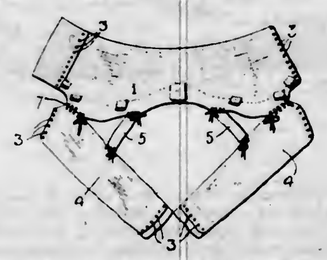
the press and to remove the blank after the press has completed its work thereon.

1,426,739. HAND PLANER. JOHN F. HOY and JOHN C. WHITEALL, Jr., Norristown, Pa., assignors to The Luster-Jordan Company, Norristown, Pa., a Corporation of Pennsylvania. Original application filed Aug. 7, 1919, Serial No. 315,986. Divided and this application filed June 30, 1921. Serial No. 481,679. 2 Claims. (Cl. 145—11.)



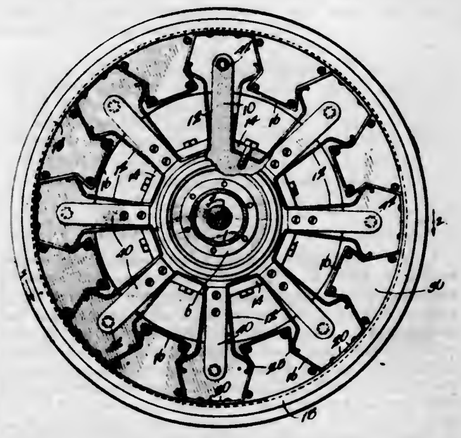
1. In a planer the combination of frames the sides of which are provided with inclined slots to receive blocks and the upper faces of which are inclined and grooved, slidable blocks mounted in said slots, a cutter journaled in said blocks, plates provided with tongues fitted to the grooves of said frames, screws securing said blocks with respect to said plates and adjusting screws passing through said plates and engaging said blocks whereby upon loosening of the first mentioned screws and tightening of the adjusting screws said cutter may be lowered.

1,426,740. SURGICAL APPLIANCE. GEORGE O. HULICK, East St. Louis, Ill. Filed Nov. 8, 1917. Serial No. 200,915. 1 Claim. (Cl. 2—188.)



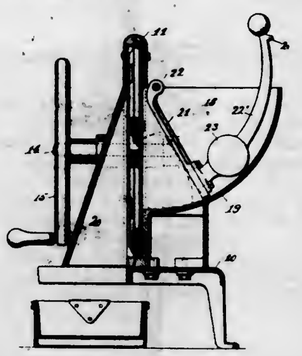
A device of the class described having a main abdominal portion laced in front, leg portions laced thereto in front, and straps at the rear connecting the leg portions with the main portion.

1,426,741. SPRING WHEEL. JULIUS JEIDEL, Chicago, Ill. Filed Oct. 7, 1921. Serial No. 506,109. 5 Claims. (Cl. 152—28.)



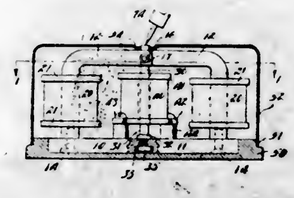
1. A spring wheel having a hub and a felloe, one having springs arranged approximately radially and the other having seats, the springs being fastened at one end and free at the other, the free ends of the springs seating in said seats, and the seats having sloping, nonradial sides whereby the engaged ends of the springs tend always to return to the bottom of the seats and thereby hold the hub concentric with the felloe.

1,426,742. ICE-SHAVING MACHINE. HORACE M. JEROME, Davenport, Iowa, assignor to B. L. Schmidt Company, Davenport, Iowa, a Corporation of South Dakota. Filed Sept. 9, 1921. Serial No. 499,476. 3 Claims. (Cl. 83—62.)



1. An ice-shaving machine embodying a casing formed of two sections one of which is secured to a suitable base and the other being secured to and closely supported by the first-mentioned section, said first-mentioned section having a feed-hopper formed integrally therewith and said last-mentioned section having a delivery-chute formed integrally therewith and extending the full height of the feed-hopper, and a circular cutter-wheel mounted to rotate in said casing, said feed-hopper and delivery-chute being positioned directly opposite to each other and entirely to one side of the center of rotation of the cutter-wheel, whereby both sides of the cutter-wheel are closely confined in the casing except at the points where the feed-hopper and delivery-chute are positioned.

1,426,743. ELECTROMAGNETIC SOUND-PRODUCING DEVICE. FRANK J. KAEHNI and WILLIAM L. KAEHNI, Cleveland, Ohio. Filed June 9, 1922. Serial No. 567,042. 2 Claims. (Cl. 179—100.1.)



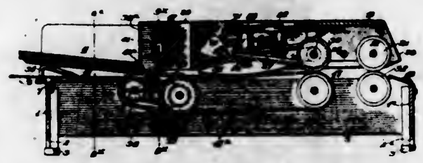
1. The combination with a phonograph reproducer having a rockable stylus, a sound box, and a sound reproducing diaphragm, of a magnetic core having a pair of end portions adjacent each other overlapping and spaced apart, iron screws adjustably mounted in said end portions and forming pole pieces, a bar rigidly anchored at its lower end to the intermediate portion of the magnetic core and extending upwardly between said pole pieces and adapted to vibrate transversely to the general plane of the magnet core and having means at its upper end for connection to said phonograph stylus, a coil surrounding said bar and spaced therefrom, and a casing surrounding the magnet and coil and having an opening adjacent the end of said bar.

1,426,744. PENCIL. CHARLES R. KERRAN and FRANK R. TAYLOR, Chicago, Ill., assignors, by mesne assignments, to Autopoint Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 24, 1919. Serial No. 340,151. 6 Claims. (Cl. 120—18.)



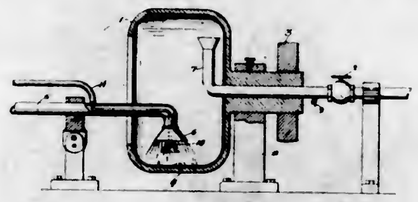
4. A pencil having a body reduced at its upper end to provide a shoulder in combination with a clip formed with a collar-shaped head adapted to seat upon the shoulder, elements projecting from the lower edge of the clip head to engage with the pencil body to prevent relative rotation between the clip and pencil, a body for the clip extending laterally and then longitudinally to lie adjacent the pencil body, and means locked to the pencil including a circular wall adapted to overlie the head of the clip and provided with a notch through which the clip body may extend, said means acting to lock the clip in place upon the pencil, substantially as described.

1,426,745. ENVELOPE-SEALING MACHINE. ARTHUR J. KRIESA, Rochester, N. Y., assignor to The Bircher Co., Inc., Rochester, N. Y., a Corporation of New York. Filed May 11, 1918. Serial No. 233,890. 25 Claims. (Cl. 120—6.)



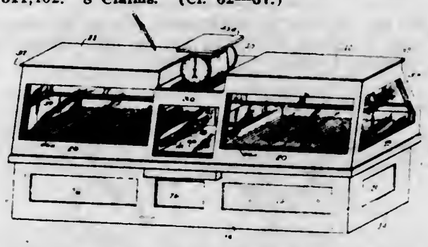
1. In an envelope sealing machine the combination of a table for a stack of envelopes, means for separating and carrying the envelopes from the stack, flap uppermost comprising a traveling belt, a revoluble disk having its edge located in proximity to said belt serving to separate the flap from the body of the envelope during the movement of the latter, means for supplying moisture to the upper surface of the disk and a pair of rollers for pressing the flap into contact with the body of the envelope.

1,426,746. RECOVERING GOLD AND APPARATUS THEREFOR. OLIVER C. KNIPE, Palo Alto, Calif. Filed Oct. 31, 1921. Serial No. 511,692. 4 Claims. (Cl. 83—67.)



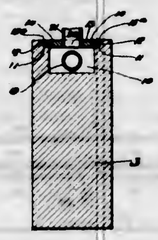
1. The process of recovering finely divided insoluble material in dilute suspension in a liquid consisting in rapidly rotating the liquid in a hollow open drum, a lining of porous fabric on the inside of the drum coated with grease to imbed and retain the gold, and simultaneously removing the clear water after a sufficient period of centrifugal action.

1,426,747. MEAT-DISPLAY CASE. OSMER J. LASHER, Waterbury, Conn. Filed Oct. 29, 1921. Serial No. 511,402. 8 Claims. (Cl. 62—37.)



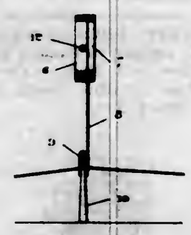
1. In a refrigerator display case, a pair of spaced twin troughs providing a central ventilating and circulating space therebetween, said troughs having perforated horizontal flanges around their top edges, and having vertical rims surrounding said flanges, and a divided drip pan below said troughs, said drip-pan having a central tube extending upwardly into said ventilating and circulating space.

1,426,748. BUCKSTAY. JOHN F. LEWIS, North Braddock, and JOHN W. KAGARISE, Wilkinsburg, Pa. Filed May 9, 1921. Serial No. 467,824. 4 claims. (Cl. 263—44.)



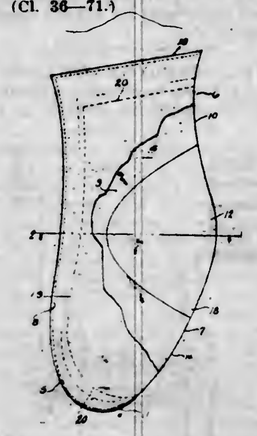
1. A buckstay formed of a substantially rectangular rolled metal slab having an open-sided recess machined therein, a cover plate welded over the open side of said recess, and water connections to said recess.

1,426,749. TREMOLO. ORVILLE O. LEWIS, Coldwater, Kans. Filed June 23, 1921. Serial No. 479,860. 11 Claims. (Cl. 84—313.)



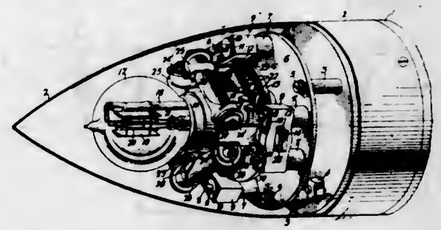
1. A device of the kind described comprising freely vibratory means to engage a vibratory portion of a stringed instrument, and vibratory sound-modifying means supported from said means for free vibration and also having a vibratory portion within itself vibratory relatively to the first named means.

1,426,750. ARCH SUPPORT. RUDOLF LUSTIG, Milwaukee, Wis. Filed Nov. 26, 1920. Serial No. 426,596. 3 Claims. (Cl. 36—71.)



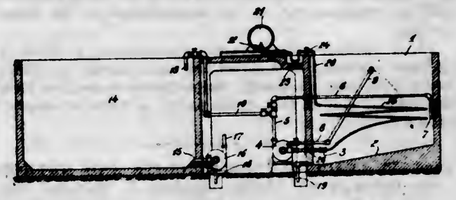
1. An arch support, comprising a flexible insole member formed of an upper and a lower part connected together along its outer edge and both ends to form a pocket with an inner edge opening, a metallic spring base plate removably positioned within said pocket and having an upcurved medial edge portion, and a pad member removably positioned within the pocket and above the base plate and having its front and rear and outer side edges skived outwardly.

1,426,751. THERMIONIC REGULATOR. PHILIP K. MCGALL, West Orange, N. J., and HARRY R. MENEFEE, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 13, 1919. Serial No. 317,240. 10 Claims. (Cl. 171—312.)



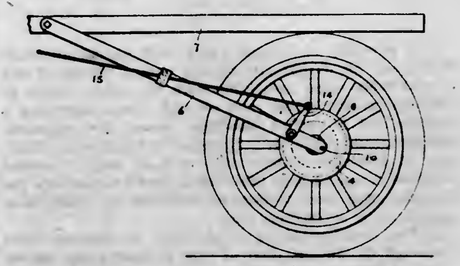
1. In combination, a dynamo electric machine and a vacuum tube in circuit therewith and mounted in line with the axis of rotation thereof.

1,426,752. PREPARATION OF LIQUID BLEACH SOLUTIONS. JAMES H. MACMAHON, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed Mar. 4, 1922. Serial No. 541,224. 9 Claims. (Cl. 8—2.)



2. The method of preparing bleach solutions by subjecting alkaline solutions to the action of chlorine, which comprises supplying the chlorine in the form of liquid chlorine, and utilizing the heat of vaporization of the chlorine to cool the alkaline solution, the liquid chlorine being vaporized by indirect contact with the solution and being then introduced in gaseous form into the solution.

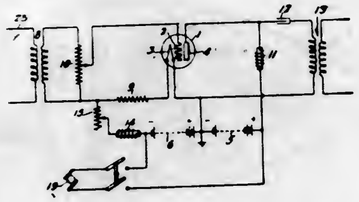
1,426,753. MOTOR-CAR BRAKE. DOUGLAS G. MACPHERSON, Portage La Prairie, Manitoba, Canada. Filed Jan. 7, 1921. Serial No. 435,696. 5 Claims. (Cl. 188—206.)



5. A motor car brake, comprising a brake drum secured to the outer side of the wheel, a brake shoe drum

rotatably mounted axially of said brake drum, means for detachably securing said brake shoe drum in place, means for anchoring said brake shoe drum from rotation, brake shoes supported on said brake shoe drum and engaging the brake drum, and means carried by said anchor means for operating said brake shoes.

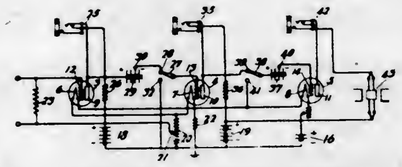
1,426,754. CIRCUITS FOR ELECTRON-DISCHARGE DEVICES. ROBERT C. MATHES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 23, 1916. Serial No. 127,120½. 27 Claims. (Cl. 179—171.)



1. In an electric translating circuit, an electron discharge device having a heated filament, an anode and a grid, said grid and filament being in the input circuit, a battery for the output circuit, means for bringing the grid to a different potential than the filament, comprising a resistance in the input circuit and a battery for supplying current therefor, the grid-filament steady potential difference being determined substantially solely by the drop in said resistance said means so arranged that gradual fluctuations in the strength of the output battery will be compensated for by fluctuations in the input battery.

18. A vacuum tube apparatus comprising a plurality of tubes arranged in a series and each having a cathode and a grid, and a normally unipotential connection from the grid of one of said tubes to the cathode of another tube.
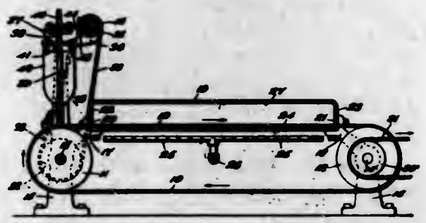
1,426,755. VACUUM-TUBE CIRCUITS AND METHOD OF OPERATING THEM. ROBERT C. MATHES, New York, N. Y., and HARRY S. READ, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 9, 1919. Serial No. 295,820. 15 Claims. (Cl. 179—171.)



1. A plurality of vacuum tubes each having an input circuit and an output circuit, the output circuit of one of said tubes being associated with the input circuit of a second of said tubes, each of said tubes comprising a cathode and a control electrode, means for supplying current to said cathodes and means for supplying a difference of potential between the cathode and a control electrode of one of said tubes, said means comprising the potential drop in a resistance connected in shunt to a cathode of a succeeding tube.

5. The combination of a plurality of vacuum tubes connected in tandem, each of said vacuum tubes having an input circuit and a filamentary electrode, the input circuit of one of said tubes including said electrode of a succeeding tube.

1,426,756. PUFFED FOOD PRODUCT AND PROCESS OF PRODUCING THE SAME. NATHAN MININBERG, Dickinson, N. Dak., assignor to Bran Products Company, Dickinson, N. Dak., a Corporation of North Dakota. Filed June 10, 1921. Serial No. 476,513. 7 Claims. (Cl. 99—10.)



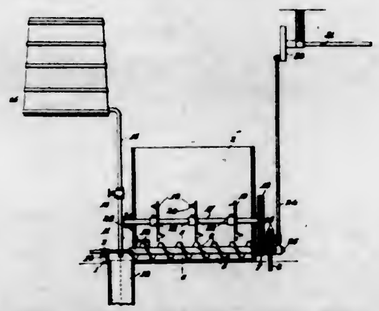
1. The process of producing a puffed food product which consists in boiling a mixture of cereal bran and water to form a doughlike mass; cooling said mass; subdividing said mass into relatively small portions; and subjecting said portions to a temperature above 400° F. and not exceeding 700° F., whereby the air and moisture therein are caused to expand and puff said portions, substantially as described.

1,426,757. ACOUSTIC DEVICE. CHARLES R. MOORE, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,494. 11 Claims. (Cl. 179—122.)



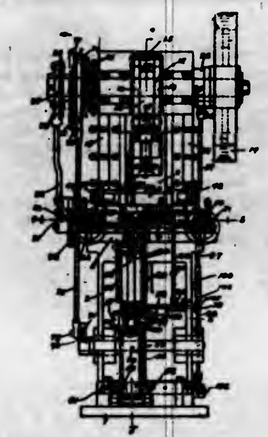
1. In an acoustic device, the combination with a sound-responsive body, of a current-varying device mounted thereon comprising a part fixed to said sound-responsive body, a plurality of spaced resilient diaphragms carried by said fixed part, and a second part solely supported by said diaphragms for relative movement to said sound responsive body.

1,426,758. ABRASIVE-MATERIAL-FEEDING MACHINE. FRANKLIN L. MOORE, Carthage, Mo. Filed Jan. 12, 1922. Serial No. 528,722. 5 Claims. (Cl. 51—263.)



1. An abrasive feeding machine comprising a hopper having its apex rounded to form a trough, a screw conveyor mounted in the trough, the hopper being formed with a discharge opening at one end of the trough, agitating means for preventing packing of abrasive material above the conveyor, means for actuating the conveyor with a step-by-step movement, and means geared to the conveyor actuating means for imparting corresponding movement to the agitating means.

1,426,759. MACHINE FOR BUILDING LAMINATED ARMATURE CORES AND THE LIKE. FREDERICK C. NICKOL, Dayton, Ohio, assignor to City Machine & Tool Works, Dayton, Ohio, a Copartnership consisting of Frederick C. Nickol and Oscar M. Poock. Filed July 2, 1920. Serial No. 393,712. 67 Claims. (Cl. 29—33.)

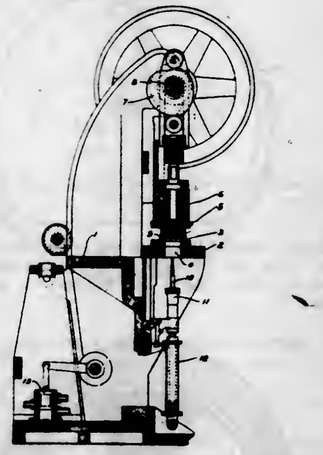


1. In a machine for building laminated armature cores and the like, a support for a shaft, mechanism for producing disks from a strip of material, and means for causing said disks to be assembled on said shaft in proper relation one to the other.

30. In a machine of the character described, a die, a punch cooperating with said die to sever a perforated disk from stock which is fed to said die, means for actuating said punch and for causing the same to remain in a position adjacent to said die for an interval of time following the severing of the disk, means to support the severed disk adjacent to said punch, and means to move a shaft longitudinally through the perforation in said disk to cause the disk to be mounted on the shaft.

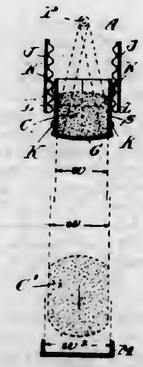
50. In a mechanism of the character described, piercing and blanking dies, movable punches for said dies, a device to feed stock to said dies, a driving shaft, operative connections between said driving shaft and said punches and said feeding device, a shaft support having movement to insert a shaft in a disk formed by said dies, each successive movement of said shaft support being less than the preceding movement thereof, means controlled by said driving shaft for actuating said shaft support, a power transmitting device, a clutch connection between said power transmitting device and said driving shaft, an actuating device for said clutch, a spring tending to move said actuating device into its operative position, a locking member to hold said actuating device in its inoperative position, a trip finger to actuate said locking member to release said clutch actuating device, a trigger connected with said shaft support, and means for causing said trigger to engage said trip finger when the movement imparted to said shaft support does not exceed a predetermined minimum movement.

1,426,760. MACHINE FOR BLANKING AND ASSEMBLING DISKS. FREDERICK C. NICKOL, Dayton, Ohio, assignor to City Machine & Tool Works, Dayton, Ohio, a Copartnership consisting of Frederick C. Nickol and Oscar M. Poock. Filed Jan. 5, 1921. Serial No. 435,248. 15 Claims. (Cl. 29—33.)



2. In a machine for blanking and assembling disks, the combination with a die and a punch to blank said disks, of a detent carried by one of said members and arranged to engage the disk which is being blanked and to support the same after the completion of the blanking operation, and means for assembling said disk on a supporting structure and releasing the same from said detent.

1,426,761. MACHINE FOR MOLDING BRICK SHAPES. CHARLES L. NORTON, Boston, Mass., assignor to Refractories Machinery Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 24, 1921. Serial No. 472,245. 8 Claims. (Cl. 25—103.)

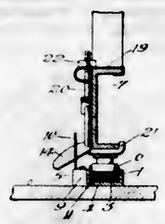


1. In a machine of the character designated, a mold, and a hopper above the mold comprising means adapted to deprive a mold-charge in the hopper of vertical and lateral support substantially simultaneously.

1,426,762. SLIDING SUPPORT FOR TYPEWRITERS. JOHN A. NOTT, Chicago, Ill., assignor, by mesne assignments, of one-half to Ira Krupnick, Chicago, Ill. Filed Aug. 22, 1919. Serial No. 319,082. 7 Claims. (Cl. 45—52.)

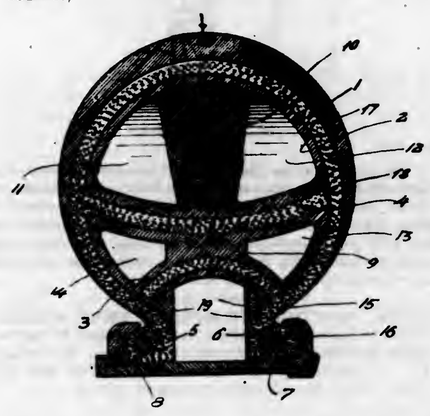
7. In an apparatus of the character described, a stationary channel-shaped guide, a channel-shaped piece of felt

considerably shorter than the guide lying within the guide and movable lengthwise of the latter, and a cushion



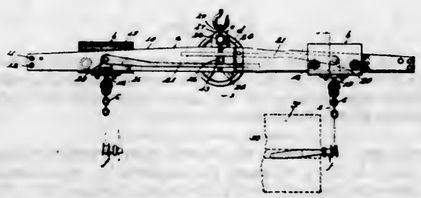
fitting within the channel of the felt and movable with the latter.

1,426,763. TIRE. MAURICE O'BANNON, Daytona Beach, Fla. Filed Oct. 20, 1919, Serial No. 331,780. Renewed Jan. 11, 1922. Serial No. 528,560. 2 Claims. (Cl. 152—1.)



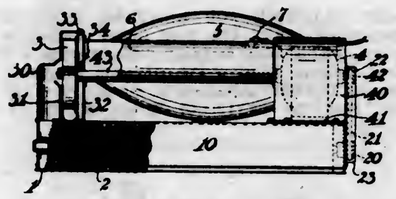
2. A device of the class described comprising a main member of fabric of substantially circular cross-section, a central basewardly curved bridging member integral therewith, a lower treadwardly curved bridging member integral therewith, said bridging members forming compartments, rubber linings in said compartments, a solid rubber member standing wedgelike between the upper and lower walls of the upper compartment and providing air chambers on the sides of said solid member, and air chambers in said other compartment, and a rubber coat surrounding said main member.

1,426,764. CRANE. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of New Hampshire. Filed Aug. 2, 1920. Serial No. 400,601. 7 Claims. (Cl. 294—67.)



1. In an apparatus of the class described, a boom provided with trackways, a pair of carriages supported directly on said trackways for adjustment and adapted to support an article therebetween, a manually rotatable shaft journaled centrally of said boom, a pinion fixed on said shaft, and oppositely extending racks connected to said carriages and meshing with said pinion.

1,426,765. SUIT VACUUM CLEANER. FRANCISCO M. PESARILLO, Seattle, Wash. Filed Apr. 11, 1921. Serial No. 460,278. 5 Claims. (Cl. 15—8.)



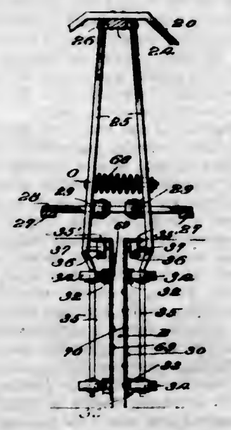
1. In a device of the character described, a casing having a suction nozzle therein, an electric motor mounted at one end of said casing, a suction fan mounted upon the opposite end of said casing, a dust-receiver connected to said fan, a shaft connecting said motor and fan, and a tubular handle connecting the fan housing and the motor housing, and enclosing said shaft.

1,426,766. TWO-PART PISTON RING. JAMES R. PETRIE, San Francisco, Calif. Filed Sept. 28, 1921. Serial No. 503,944. 2 Claims. (Cl. 74—109.)



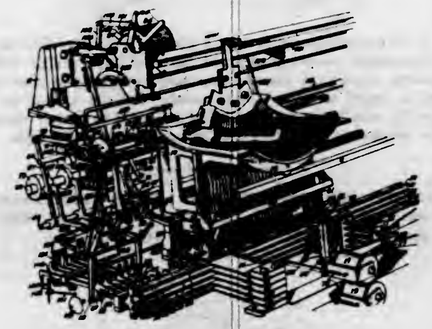
1. A two-part piston ring comprising an L-shaped part constructed and adapted to dovetail in to a second part, the two parts forming a two-part ring of rectangular section, and each of said parts having a joint consisting of ends formed to intermesh with each other and the parts assembled with the said joints opposite each other and grooves in the outer surface of the L part in the assembled ring to pass pressure between the parts.

1,426,767. ROOT-CROP HARVESTER. HARRY IRVING PETTENGILL, Flint, Mich. Filed Sept. 16, 1919. Serial No. 324,083. 5 Claims. (Cl. 55—108.)



1. A root crop harvester including a transportable frame, means at the forward end of the frame for gathering the root crop tops from the ground, and a pair of endless top engaging and conveying belts mounted longitudinally on the frame and comprising chains, vertical boards secured to the outer faces of the chains and being corrugated longitudinally of the chains to firmly grip the root crop tops, and resilient means for normally urging the inner laps of the chains toward each other.

1,426,768. PRINTING-TELEGRAPH RECEIVER. HARRY PFANNENSTIEHL, East Orange, N. J., and ERWIN P. BANCROFT, Brooklyn, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 10, 1917. Serial No. 195,712. 16 Claims. (Cl. 178—27.)



14. Printing telegraph apparatus comprising a paper platen, a group of printing elements movable transversely with respect to said platen, shift mechanism for effecting relative vertical motion between said platen and said printing elements, means for holding said shift mechanism in its actuated position, and means controlled by current impulses for simultaneously permitting relative transverse motion between said platen and said printing elements and for releasing said holding means.

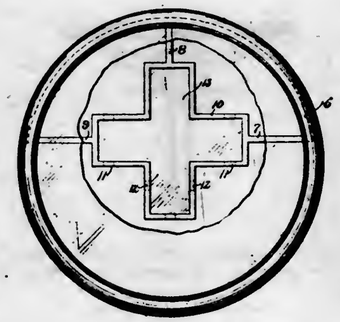
1,426,769. PROCESS FOR PLATING. GEORGE H. PINNEY, South Manchester, Conn., assignor to The Williams Brothers Manufacturing Company, Glastonbury, Conn., a Corporation of Connecticut. Filed Oct. 26, 1921. Serial No. 510,511. 6 Claims. (Cl. 204—1.)



1. The process of plating that consists in applying a removable cover to a portion of the article to be plated, then applying a plating resisting material to the article around said cover, then removing said cover, and then plating the uncovered portion of the article.

1,426,770. INDICIA PLATE FOR LENSES. VITO A. QUAGLIANO, East Boston, Mass. Filed Feb. 20, 1922. Serial No. 537,764. 4 Claims. (Cl. 40—132.)

3. An indicia plate for lenses comprising a curved rim, a plurality of inwardly directed arms extending therefrom, an open frame of cruciform outline mounted upon the adjacent ends of said arms, a sheet of light transmitting material within said frame, and integral tabs projecting from said frame for holding such sheet of material in place.

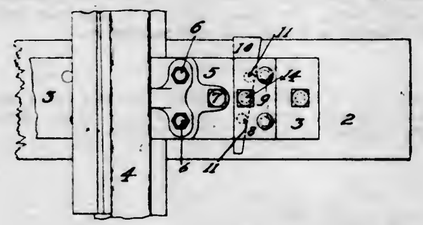


1,426,771. LEADING-IN CONDUCTOR. JOHN W. RADU, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 16, 1920. Serial No. 351,977. 9 Claims. (Cl. 91—70.)

4. A leading-in conductor of a base metal or metals comprising a baked-on flux coating which is welded to said conductor.

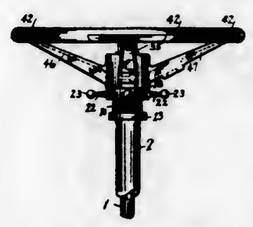
6. A leading-in conductor having a baked-on coating of phosphate.

1,426,772. ADJUSTABLE BACKING FOR RAIL BRACES. FRED RAPP, West Albany, N. Y. Filed July 2, 1921. Serial No. 482,126. 1 Claim. (Cl. 238—336.)



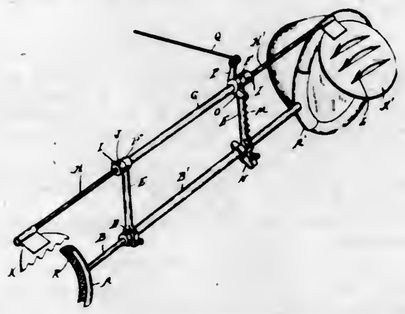
An adjustable backing for rail-braces comprising a tie plate with openings therethrough; a thrust resisting member fixedly attached to said plate a side of said member notched to form a vertical surface at an angle across said plate and a horisontal surface parallel to but spaced from said plate and having a vertical opening through said member into said notch; a wedge member with a series of notches vertical therein and in line with the aforesaid vertical opening when a side of said wedge member is in contact with the vertical angular surface of said thrust resisting member; and means adapted to pass through the vertical opening in said thrust resisting member, one of the notches in the wedge member, and an opening in said tie plate and hold said wedge member in adjusted position and fasten said wedge member, thrust resisting member, and tie plate to a railroad tie.

1,426,773. DIVISIBLE LOCKING STEERING WHEEL. PETER W. BECK, Bettendorf, Iowa. Filed July 14, 1919. Serial No. 310,725. 7 Claims. (Cl. 74—33.)



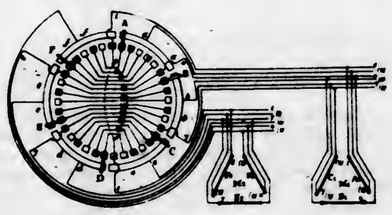
1. A divisible locking steering wheel, having a rim divided into quarters, each quarter mounted on the end of a spoke.

1,426,774. VEHICLE LAMP DIMMER. GEORGE S. RESSLER, Lansing, Mich. Filed Jan. 24, 1921. Serial No. 439,356. 7 Claims. (Cl. 240—45.6.)



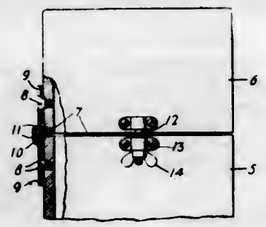
1. A dimmer for headlights, comprising a longitudinally collapsible frame, shoes at the opposite ends of said frame for engaging the headlights, a rock shaft mounted in said frame, and shields secured to said rock shaft and movable in relation to said headlights.

1,426,775. AUTOTRANSFORMER. ANGELO DELLA RICCIA, Brussels, Belgium. Filed Dec. 2, 1921. Serial No. 519,560. 3 Claims. (Cl. 171—119.)



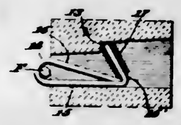
1. An auto-transformer for the supply of two symmetrically disposed secondary circuits, comprising for each secondary circuit a stationary terminal connected in the circuit at the corresponding end of the transformer winding and a terminal movable along the said winding, the two movable terminals being symmetrically disposed, and means for moving the same by equal amounts and in contrary sense upon the whole length of the winding.

1,426,776. MOISTUREPROOF RECEPTACLE. WILLIAM E. RIECKEN, Glendale, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 27, 1918. Serial No. 268,542. 6 Claims. (Cl. 217—57.)



1. A receptacle comprising a casing, a closure therefor, compressible means positioned between said casing and closure, means for compressing said compressible means, and a hinge member loosely connecting the casing and closure, said hinge member being arranged to permit right line movement in a direction perpendicular to its axis.

1,426,777. FENCEPOST AND WIRE FASTENER. GRANT E. RUSSELL, St. Louis, Mo. Filed May 7, 1920. Serial No. 379,581. 10 Claims. (Cl. 256—48.)



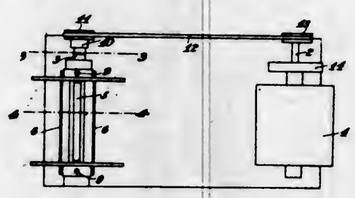
1. A fastener for securing the line wires of a fence to a post comprising a shank having an eye at one end by means of which the fastener may be secured to the fence wire, and a portion at the other end bent away from the shank and inclined over the shank, said end portion being of less length than the shank and terminating intermediate the ends of the shanks, the end portion and the shank being adapted to fit within an opening in a fence post whereby the end portion may secure the fastener to the fence post.

1,426,778. MULTIPLE-TURRET-TOOL HOLDER. WILLIAM A. SALTER, Kansas City, Mo. Filed July 6, 1920. Serial No. 394,226. 2 Claims. (Cl. 29—49.)



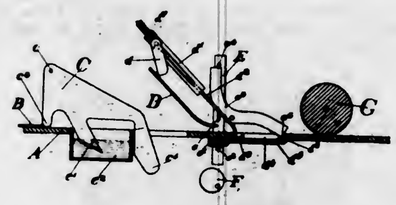
1. In a multiple turret tool holder, the combination of a supporting member, a revolving tool carrier member having locking recesses with registry holes, a registry stop pin carried by the supporting member engaging with the registry holes in the tool carrier and the adjustable stop screws therein, an operating locking bolt, and means whereby the tool carrier is locked by wedging action between one side of the stop pin and the beveled side of the locking bolt engaging with a locking recess.

1,426,779. DEVICE FOR ROLLING UP PAPER AND THE LIKE. FREDERIK SCHADE, Skive, Denmark. Filed Apr. 19, 1919. Serial No. 291,325. 2 Claims. (Cl. 242—55.)



1. A device for rolling paper, comprising a pair of reels, removable means carried by one of said reels for preliminarily bending the paper into a plurality of sections having parallel edges, and means carried by said reels for curving said sections to roll the paper into cylindrical form upon the removal of said first means.

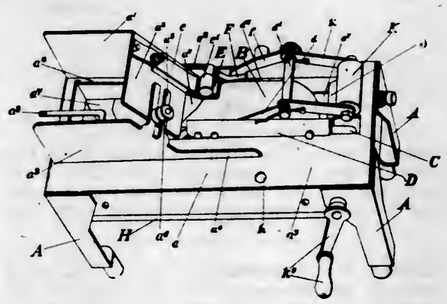
1,426,780. STAMP-AFFIXING MACHINE. WILLIAM F. SCHWEIGER, Rochester, N. Y., assignor to Multipost Company, Incorporated, Rochester, N. Y., a Corporation of New York. Filed Dec. 22, 1919. Serial No. 346,479. 5 Claims. (Cl. 216—28.)



1. A machine for automatically affixing stamps on envelopes comprising moistening means operated by an envelope as it is fed through the machine, stamp strip feeding means which is engaged and moved along by the forward edge of an envelope at the same speed as the envelope, and stamp severing mechanism, the operation of which is controlled by the envelope.

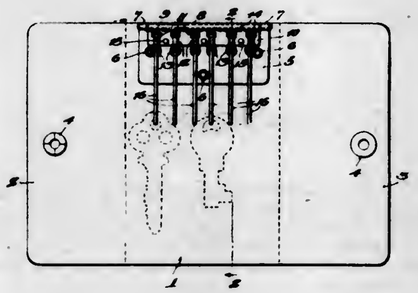
1,426,781. ENVELOPE-MOISTENING MACHINE. WILLIAM F. SCHWEIGER and WESLEY J. BALKWILL, Rochester, N. Y., assignors to Multipost Company, Incorporated, Rochester, N. Y., a Corporation of New York. Filed Jan. 31, 1920. Serial No. 355,326. 9 Claims. (Cl. 91—50.)

1. An envelope moistening machine comprising supporting means having an opening to receive the downwardly projecting flap of an envelope, a table located in the path of travel of the envelope, feeding means for actuating the envelope across the top of the table, deflecting means lying in the path of the envelope and acting to guide the flap to the underside of the table,



and a moistening device arranged beneath the table and acting to moisten the flap of the envelope as the latter is fed across the table.

1,426,782. KEY POUCH. MAX SCHWEINSHAUT, Attleboro, Mass., assignor to M. S. Company, Attleboro, Mass. Filed Feb. 9, 1922. Serial No. 535,222. 3 Claims. (Cl. 150—40.)



1. In a key pouch, a case, a plate secured to the case and having spaced hinged knuckles at its ends, a plate doubled upon itself to form a knuckle received between the first named knuckles, a pintle passed through all of the knuckles, the leaves resultant from doubling of the plate being formed with openings adjacent to the knuckle thereof and with registering concavities extending from the openings through the free outer side edges of the leaves, the respective concavities conjointly forming sockets, eyes having shanks turnable in the sockets, the eyes abutting the free outer side edges of the leaves and the shanks having heads disposed within the respective openings, and key holding members carried by the eyes.

1,426,783. PISTON PACKING. FREDERICK E. SMALL, Needham, Mass., assignor to Pressure Proof Piston Ring Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 13, 1920. Serial No. 410,052. 2 Claims. (Cl. 74—109.)

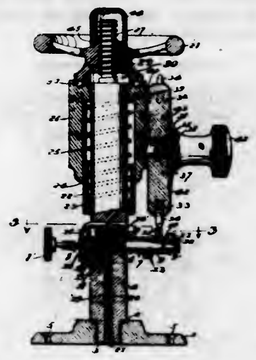
2. In a piston packing comprising a main bearing ring having a beveled inner portion and an outer circumferential seat, a split breaker ring fitted in the seat

upon the main ring and a split expander ring bearing against said beveled portion, a pin extending axially through the main bearing ring and projecting into the



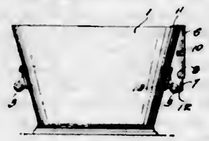
circumferential seat and from the surface of the inner beveled portion and fitting into the splits of the breaker and expander rings and adapted thereby to preserve the relative circumferential position of the rings.

1,426,784. PIPE-STAMPING MACHINE. ROBERT R. SOLMSON, New Brunswick, N. J. Filed Jan. 17, 1922. Serial No. 529,853. 4 Claims. (Cl. 101—18.)



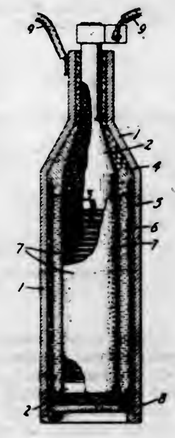
1. A pipe stamping machine comprising a set of dies mounted in a rotatable support, means for rotating said support, and means for regulating said rotation, a slidably mounted arm adapted to secure a pipe bowl in place, means for imprinting said dies in said pipe bowl, and means for securing the machine in place on a counter or table top.

1,426,785. HANDLE HOLDER FOR CASKETS. FRANCIS M. SONDAY, Churubusco, Ind. Filed Mar. 25, 1921. Serial No. 455,535. 3 Claims. (Cl. 33—180.)



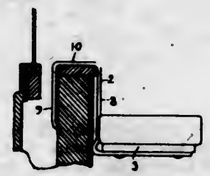
1. In a handle holder for caskets, the combination of a plurality of operatively connected plates, each of said plates having inturned end portions, the inturned end of one plate being adapted to engage over the upper edge of the casket, and the inturned end of the other plate being suitably shaped to engage the casket handle, and means securing the plates together and permitting of longitudinal adjustment of one plate relative to the other plate.

1,426,786. STORAGE BATTERY. JAMES BUCKNER SPEED, New York, and FRANKLIN HUTCHINSON, Jr., Brooklyn, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 3, 1920. Serial 370,972. 20 Claims. (Cl. 204—29.)



1. A hermetically sealed storage battery comprising an electrolyte and two electrodes whose potential difference is less than that required to liberate gases from the electrolyte.

1,426,787. ARMREST. CHARLES R. SPENCER, Buffalo, N. Y., assignor of one-half to George H. Rowe, Buffalo, N. Y. Filed Sept. 22, 1921. Serial No. 502,455. 4 Claims. (Cl. 296—1.)

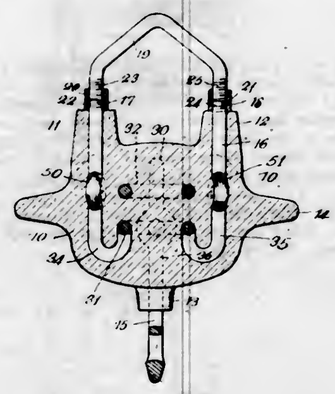


3. An arm rest comprising a block, a pair of U-shaped hangers having extension portions, a base to which the extension portions are riveted and a screw securing the base to the block, the base having flanges to bear against the block and provide a clearance for the rivets.

1,426,788. INSULATOR STRAIN MEMBER. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Nov. 26, 1918. Serial No. 264,146. 7 Claims. (Cl. 173—366.)

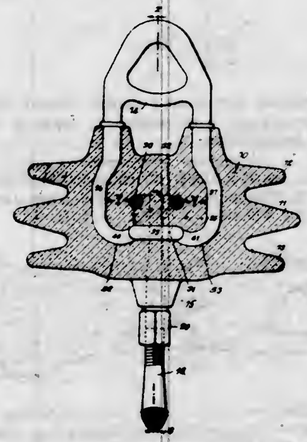
2. In a device of the kind described, an insulating body, interlocked strain members embedded therein, said strain members consisting of leg portions and ring

shaped bridge portions oppositely disposed to each other, and circular elements forming a portion of the leg por-



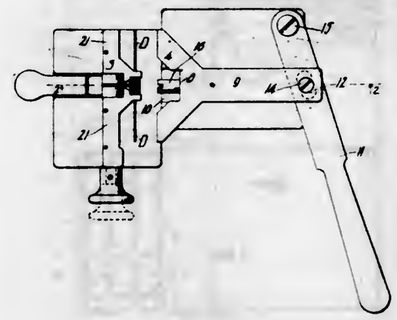
tions of one strain member and extending therefrom in a line concentric with the bridge portion of the other strain member.

1,426,789. INSULATOR. LOUIS STEINBERGER, Brooklyn, N. Y. Filed Jan. 28, 1922. Serial No. 532,387. 14 Claims. (Cl. 173—366.)



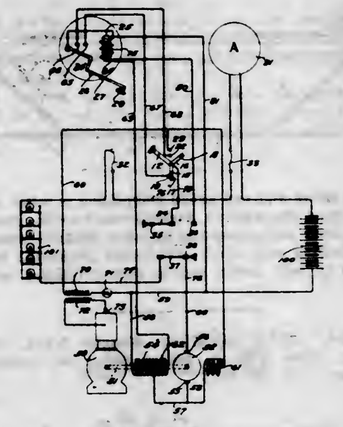
1. In a device of the kind described, an insulating body, interlocked strain members embedded therein, each of said strain members embodying leg portions and a stress distributing ring portion therebetween, the said leg portions being rigidly secured to and bridged by the said ring portion, the ring portion of one of said strain members being disposed opposite to the ring portion of the other strain member, each of said ring portions being circular in vertical cross section, the ring portion of one strain member being insulated from the leg portions of the other strain member.

1,426,790. WIRE-BENDING MACHINE. OLAF STENSON, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 7, 1920. Serial No. 349,067. 11 Claims. (Cl. 153—21.)



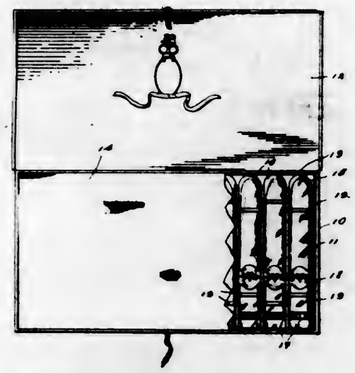
6. In a wire bending machine, the combination with a rotary bending die having a transverse slot therein extending through its axis, of a longitudinally movable mandrel intersecting the slot and having one edge coincident with the axis of said die.

1,426,791. ELECTRIC CONTROL SYSTEM. HUGH M. STOLLER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 21, 1921. Serial No. 479,192. 13 Claims. (Cl. 290—35.)



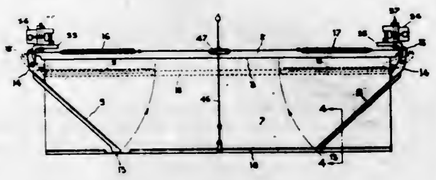
1. The combination with an internal combustion engine of a dynamo electric machine having a shunt field and two independent series fields, one having a larger number of ampere turns than the other, both of said series fields wound cumulatively with said shunt field, a secondary battery, means for connecting said shunt field and the series field having the larger number of ampere turns to said secondary battery for starting said engine and for connecting said shunt field and the series field having the smaller number of ampere turns to said battery for charging it, said means comprising two manually operable switches, and electromagnetic means for controlling one of said switches.

1,426,792. METHOD AND PACKAGE FOR CIGARS IN GLASS TUBES. EUGENE VALLENS, New York, N. Y. Filed Apr. 23, 1921. Serial No. 463,883. 2 Claims. (Cl. 206—46.)



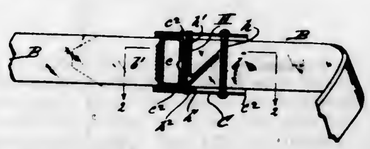
1. In a package of the character described, a case, a plurality of tubes, elastic rings frictionally fitted upon the tubes, the case being of a size to snugly receive the rings in bearing upon the tubes and sides of the case.

1,426,793. WINDSHIELD ATTACHMENT. JOSEPH H. VINESERG, JOHN HALLIDAY, and JOSEPH PRESNER, Montreal, Quebec, Canada, assignors to The V. P. Auto Appliance Company Limited, Montreal, Canada. Filed July 14, 1921. Serial No. 484,743. 9 Claims. (Cl. 296—95.)



1. A storm and sun shield comprising a roller, a blind wound upon the roller, a device secured to the front edge of the blind and presenting an open channel, and means for extending said blind, said means projecting into the channel in said device and in sliding relation with the latter.

1,426,794. BELT BUCKLE. GEORGE WADE, Newark, N. J. Filed Oct. 21, 1921. Serial No. 509,306. 2 Claims. (Cl. 24—73.)



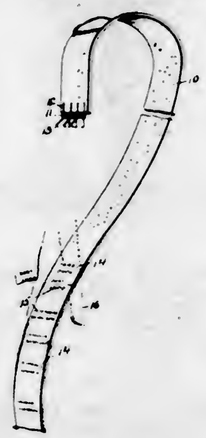
1. A belt buckle formed with a retaining hook of the character designated having an insert portion disposed at an angle of substantially 45° from its junction with the body of the hook to extend substantially across the belt and adapted to engage to a considerable extent in the button-hole of the waist-band of a garment.

1,426,795. WEAR PLATE. JOHN F. WAIDELICH, Jackson, and THOMAS F. WHELAN, Hollwand, Mich. Filed Jan. 23, 1920. Serial No. 353,508. 4 Claims. (Cl. 36—74.)



1. A wear plate for shoe soles, comprising a pressed sheet metal member formed from a rectangular blank and having a rounded body portion with an inwardly extending annular flange surrounding the same and the corner portions of the blank forming slightly diverging prongs, the metal thereof being squeezed to thin the same and form sharp edges for driving into the leather.

1,426,796. DRIVING BELT. LEON A. WALKER, Newark, N. J. Filed Oct. 26, 1921. Serial No. 510,516. 3 Claims. (Cl. 74—62.)



1. A driving belt having indicia thereon to indicate where the belt is to be severed to adapt it for predetermined installations.

1,426,797. HANDKERCHIEF RETAINER FOR GLOVES. EMMA D. WANGELIN, St. Louis, Mo. Filed Jan. 3, 1920. Serial No. 349,163. 1 Claim. (Cl. 2—9.)

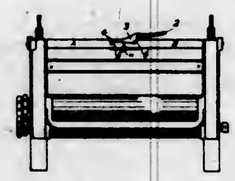


In combination with a hand covering having separable devices for securing it upon the hand, a tape like element secured to the hand covering between said securing devices at its ends only and with its body portion free from the hand covering between its secured ends, whereby said body portion will be taut or loose from the hand covering as the fastening or securing devices of the hand covering are relatively united or separated substantially as shown and for the purposes stated.

1,426,798. WRINGER. HENRY A. WEBSTER, Milford, Mass., assignor to American Wringer Company, Woonsocket, R. I. Filed Nov. 1, 1921. Serial No. 512,119. 3 Claims. (Cl. 68—32.)

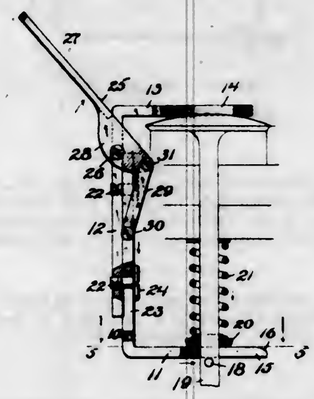
3. In combination with the hinged pressure bar of a wringer, and pins extending outwardly from one of the

bar sections and on opposite sides thereof, a latch having a pair of hooks borne by the other section of the pressure



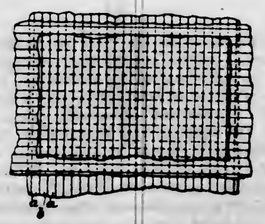
bar, and means to effect automatic engagement of the hooks with the pins when the pressure bar is in extended position.

1,426,799. VALVE REMOVER. EDWARD L. WEIL, Kearny, N. J. Filed Mar. 12, 1921. Serial No. 451,896. 1 Claim. (Cl. 29—86.3.)



A valve remover comprising two L-shaped members slidably connected and with their ends opposed, a lever swinging on one member, and a link hinged to the other member and to the lever, so that the link crosses the pivot of the lever when the handle is swung to pull the members inwardly.

1,426,800. CONSTRUCTION OF WEAR-RESISTING AND NONSLIPPING SURFACES, SUCH AS TIRE COVERS, STAIR TREADS, OR THE LIKE. WALTER PERCY WHITEHOUSE, Whitstable, England. Filed Aug. 31, 1921. Serial No. 497,272. 1 Claim. (Cl. 154—52.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



Wear resisting and non-slipping surfaces comprising two or more layers or sheets composed of strips of vulcanized rubber of different degrees of resiliency or hardness arranged side by side and adhering together, the strips of each layer crossing at an angle the strips of the adjacent layer or layers, substantially as described.

1,426,801. REPEATER FOR UNDULATORY CURRENTS. WILLIAM WILSON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 21, 1917. Serial No. 156,276. 20 Claims. (Cl. 250—27.)



1. A discharge device comprising a tube operating with a luminous discharge and having an anode, a cathode, a control electrode, and an apertured screen, said screen dividing the space between said anode and cathode into separate parts and having a size substantially the same as a cross-section of the tube at the point where the screen is located.

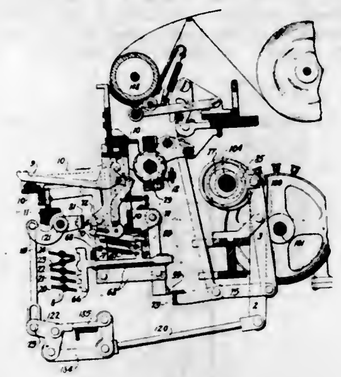
17. A vacuum tube containing a stem projecting into the interior of said tube, and a plurality of discs of conducting material symmetrically supported by said stem as an axis.

1,426,802. BOLT FOR DEMOUNTABLE WHEELS. IRVING C. WOODWARD, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 375,060. 2 Claims. (Cl. 85—1.)



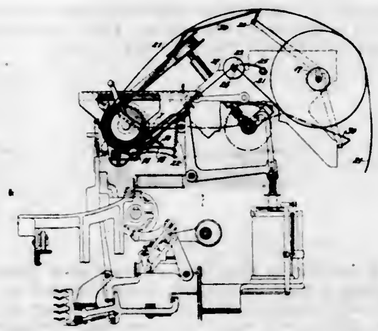
1. A bolt for clamping two or more parts together, comprising a head on one end, a nut threaded on the other end of said bolt, tapered shoulders formed on the shank adjacent said head and spaced apart circumferentially, and a thread formed on a portion of said head adjacent said shoulders and on said shoulders, said threaded head being adapted to be screwed into a threaded aperture in one of said parts to secure said bolt against accidental axial movement, said shoulders extending axially of said bolt so that by the drawing up of the bolt and nut they are adapted to be wedged into one of said parts adjacent to a bolt hole for securing the bolt against rotation relative to said part.

1,426,803. PRINTING TELEGRAPH. ARTHUR H. ADAMS, Galion, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 21, 1920. Serial No. 397,806. 8 Claims. (Cl. 178—27.)



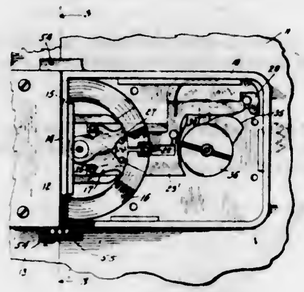
8. In a printing telegraph receiver, a movable type carriage carrying a plurality of type levers, a plurality of selecting bars, a selectable bar individual to each of said type levers, a support for said selectable bars suspended from said type carriage, and means for bringing said selectable bars toward said selecting bars for selecting purposes.

1,426,804. TYPEWRITER. ARTHUR H. ADAMS, Galion, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Oct. 29, 1918, Serial No. 260,111. Divided and this application filed Jan. 26, 1921. Serial No. 439,965. 13 Claims. (Cl. 197—133.)



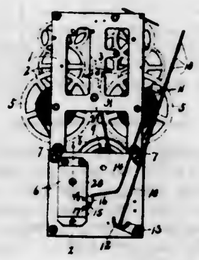
1. In combination, a paper holder, means for drawing paper from said holder in a longitudinal direction, and a take-up device over which said paper travels, said device being free to oscillate when the paper travels in a uniform longitudinal direction and a portion thereof being restrained from movement when the paper travels in a transverse direction whereby the direction of travel of the paper is automatically corrected.

1,426,805. LOCK. ARTHUR A. ALEXANDER and BERNARD MORGENTHAU, New York, N. Y. Filed Dec. 30, 1920. Serial No. 434,055. 3 Claims. (Cl. 70—16.)



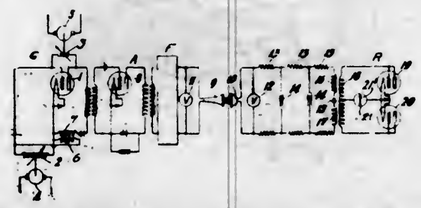
1. The combination with a lock casing, of a keeper in operative relation thereto, a hollow body on said casing projecting over the gap between said casing and keeper, and a plurality of balls loosely mounted in said body.

1,426,806. CHIME ATTACHMENT FOR CLOCKS. WILLIS H. ALLEN, Syracuse, N. Y. Filed Feb. 18, 1919. Serial No. 277,808. 4 Claims. (Cl. 58—13.)



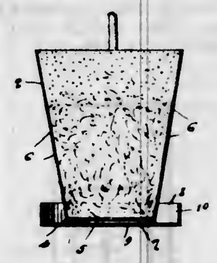
4. The combination with a clock mechanism having an upright frame, a minute spindle and a cam on the minute spindle, of a supplemental upright frame having means at its upper end for attachment to the lower end of the clock frame, a vertically adjustable charm-bar support mounted on the supplemental frame near the lower end thereof, charm bars secured at their lower ends to said support and extending upwardly some distance above the supplemental frame, strikers pivotally mounted on the supplemental frame, a motor on the supplemental frame, mechanism actuated by the motor for operating the strikers, and means controlled by the cam-wheel on the minute spindle for controlling the operation of the striker-operating mechanism.

1,426,807. METHOD OF AND SYSTEM FOR TESTING TRANSMITTERS OR RECEIVERS. HAROLD D. ARNOLD and JOHN P. MINTON, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1917. Serial No. 201,565. 15 Claims. (Cl. 179—175.)



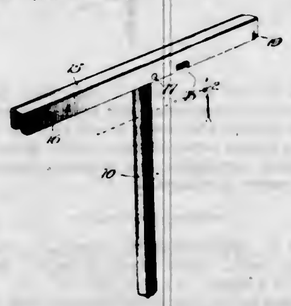
10. A testing system comprising a generator supplying current continuously variable in frequency in a regular manner, a receiver connected thereto and in attenuating device between said generator and said receiver.

1,426,808. FLOWERPOT. CHARLES H. BAILEY, Cleveland, Ohio. Filed Jan. 29, 1919. Serial No. 273,779. 2 Claims. (Cl. 47—34.)



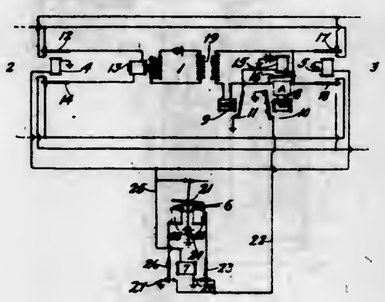
2. A planting pot having its upstanding soil enclosing wall of material disintegrable on transfer to the ground, said wall having a groove in its inner surface to provide a weakened portion for disintegration before the remainder thereof, and a bottom disposed in said groove.

1,426,809. COLLAPSIBLE HANDLE. JOHN W. BATE, Racine, Wis. Filed July 22, 1921. Serial No. 486,689. 7 Claims. (Cl. 74—33.)



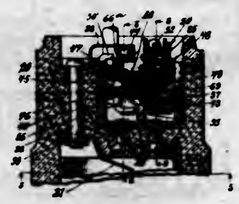
1. A collapsible handle comprising a shaft having a head formed at an angle thereto and a hollow member slidably mounted upon said shaft and having an element near the center for limiting the movement of said shaft, said shaft being movable about said element until said head lies within the hollow member.

1,426,810. REPEATER SYSTEM. WILLIAM E. BRADEY, Bayside, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1918. Serial No. 256,248. 25 Claims. (Cl. 179—170.)



1. The combination of two lines, a repeater adapted to be reversibly connected therebetween, means for controlling the connection of said repeater to said lines and for connecting said repeater in position to transmit currents in one direction over said lines in the absence of signaling current in said lines, said means comprising a relay connected to the output side of said repeater for energization by amplified currents from said repeater.

1,426,811. ELECTRIC SWITCH. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 26, 1919. Serial No. 306,783. 9 Claims. (Cl. 173—354.)

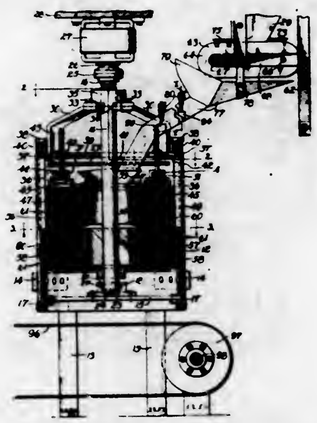


1. A switch mechanism comprising an oscillatable operating member, a pull member for actuating said operating member, a coil torsion spring for returning said oscillating member after it has been actuated, a ratchet-member actuated by said oscillating member, a rotatable switch contact, a coil torsion spring connecting said ratchet and said rotatable switch member, a releasable detent for holding said rotatable switch member from rotation to cause energy to be stored in said second torsion spring, one of said coil torsion springs surrounding the other.

1,426,812. CEMENT MILL. ANDREW BERGLUND, Indiana Harbor, Ind., assignor to Richard S. Broge, Chicago, Ill. Filed July 23, 1921. Serial No. 486,927. 2 Claims. (Cl. 83—3.)

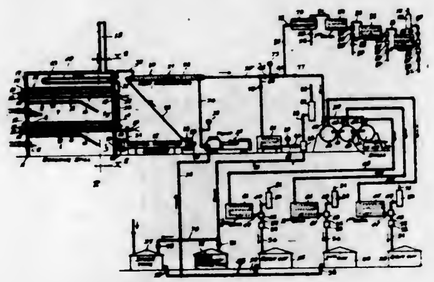
1. A grinder for a cement mill consisting of a cylindrical body of soft material having longitudinally imbedded therein spaced and relatively thick steel bars ex-

posed through one of the opposed ends of said body, said bars being arranged in spaced concentric circles with re-



spect to the axis of the body of the grinder and in spaced staggered relation to one another diametrically of said body.

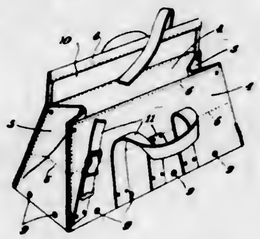
1,426,813. PROCESS FOR THE PRODUCTION OF LOW-BOILING-POINT HYDROCARBONS. JOHN C. BLACK, Beverly Hills, Calif. Filed Dec. 12, 1919. Serial No. 344,406. 16 Claims. (Cl. 196—25.)



5. In the process for the production of low boiling point hydrocarbons, the combination of steps consisting in heating the hydrocarbons in a single passage to a temperature sufficient to crack them and under pressure of not less than 35 atmospheres to prevent vaporization thereof, then reducing their rate of flow, and then reducing the pressure and vaporizing the hydrocarbons separating fractions heavier than gasoline and returning said fractions to the cracking apparatus.

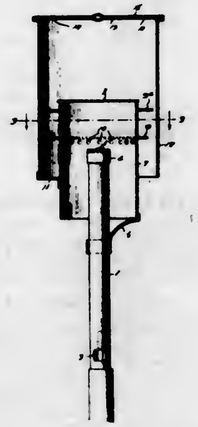
16. In the process for the production of low boiling-point hydrocarbons, the combination of steps comprising heating the hydrocarbons in a coil to a temperature sufficient to crack them and under pressure of not less than 35 atmospheres to prevent vaporization thereof, transferring the hydrocarbons to a tube or chamber of larger cross sectional area, completely filling the larger tube or chamber with hydrocarbons in a liquid state and passing the hydrocarbons through the larger tube or chamber while still maintaining them under pressure to deposit the carbonaceous matter and finally discharging the undeposited hydrocarbons from the chamber.

1,426,814. BAG. AUGUST BRUNS, Brooklyn, N. Y. Filed Jan. 7, 1922. Serial No. 527,615. 5 Claims. (Cl. 150—50.)



1. A bag of the character described comprising a stiff flat metal bottom with narrow upturned flanged edges and a body of heavy waterproof material like canvas which around its base is folded back upon and secured to itself to form a pocket and is secured to the flanged edges of the bottom by means of metallic fasteners passing through both folds of the pocket and an intermediate strip of metal inserted in and resting on the bottom of the pocket.

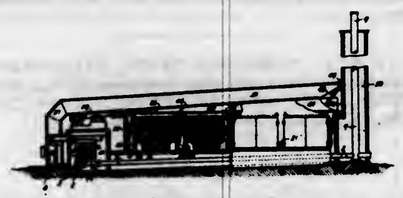
1,426,815. GAS BURNER. MATHIAS BURGSTALLER, Cleveland, Ohio. Filed Dec. 29, 1921. Serial No. 525,677. 2 Claims. (Cl. 158—99.)



1. A gas burner comprising a pipe head having jet openings, a drum surrounding said head, said drum being open at the bottom and closed at the top, the side wall of the drum having baffles on the outside thereof and jet openings below said baffles, and a shell surrounding the drum and spaced therefrom.

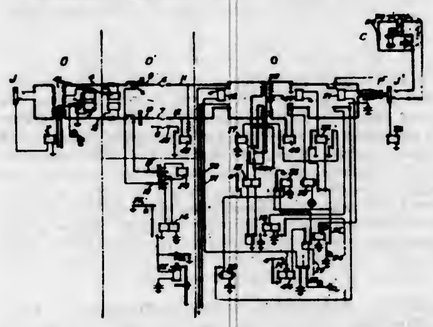
1,426,816. DEHYDRATOR. THOMAS I. CARBY, San Francisco, Calif. Filed Sept. 16, 1919. Serial No. 324,124. 8 Claims. (Cl. 34—39.)

1. In apparatus for the dehydration of food products, a plurality of compartments each adapted to receive a plurality of stacked trays, spaced apart; having ports or openings in the opposite walls of the compartments registering with said spaces, said adjacent compartment walls spaced apart forming air passages therebetween; pivoted partition members within said passages, adapted to contact their opposite edges with adjacent walls forming an inlet and an outlet passage of tapering section with the adjacent compartment walls respectively, and



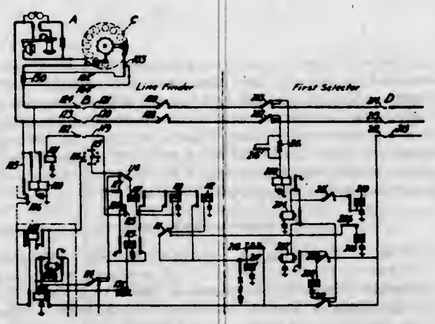
when swung about their pivots to form outlet and inlet passages respectively, as and for the purpose set forth.

1,426,817. TELEPHONE-EXCHANGE SYSTEM. EDGAR H. CLARK, Richmond Hill, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 11, 1919. Serial No. 344,095. 8 Claims. (Cl. 179—27.)



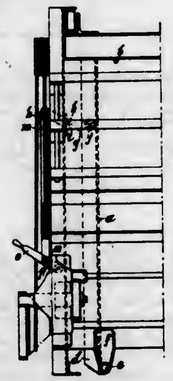
8. In a telephone exchange system, an originating office, a terminating office, a plurality of two conductor trunk circuits extending between said offices, high resistance relays permanently bridged across said circuits at the outgoing ends thereof, and means at the terminating office for causing the operation of said relays at will to render any or all of said circuits artificially busy.

1,426,818. TELEPHONE-EXCHANGE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1918. Serial No. 268,665. 9 Claims. (Cl. 179—18.)



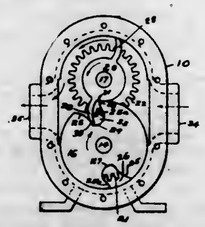
3. In a telephone system, a telephone line, a sender therefor, a numerical switch, means for automatically extending said line to said switch upon the initiation of a call therein, and means for preventing said numerical switch from responding to the first set of impulses from said sender, said means being rendered effective only in case said numerical switch is connected to the sender while the sender is operating.

1,426,819. BALING PRESS. THOMAS COOK, Stalybridge, England. Filed Mar. 14, 1921. Serial No. 452,169. 1 Claim. (Cl. 100—19.)



The combination, with a press box provided with a side which is pivoted to it at one end, of a rock-shaft journaled in bearings secured to the press box and arranged parallel to its pivoted side, arms secured on the rock-shaft and provided with rollers for bearing against the pivoted side and holding it in place, an operating lever secured to the rock-shaft and arranged at an angle to the said arms, a hand lever pivoted to the press box and arranged substantially parallel to the operating lever, and a connecting-rod pivotally connecting the two said levers.

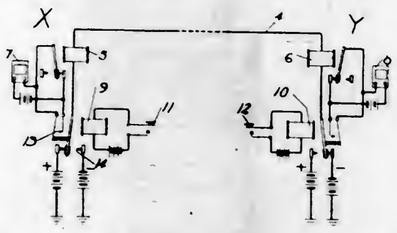
1,426,820. ROTARY PUMP. MIDDLETON CRAWFORD, Spokane, Wash., assignor to Spokane Irrigation Pump Company, Spokane, Wash., a Corporation of Washington. Filed Jan. 12, 1921. Serial No. 436,732. 1 Claim. (Cl. 103—44.)



A rotary pump comprising a casing in which is mounted two rotary drums, one of which drums is provided with crescent shaped vanes and the other of which drums is provided with corresponding recesses adapted to engage said vanes in the rotation of the drums, the periphery of said drums having a rolling contact with each other, excepting as to the said vanes and recesses, the side walls of such recesses being substantially crescent shaped, substantially parallel with each other, one of such walls being convex and the other concave, the two walls being separated at their inner ends by a substantially U-shaped wall, the relative forms of the blades and walls of the

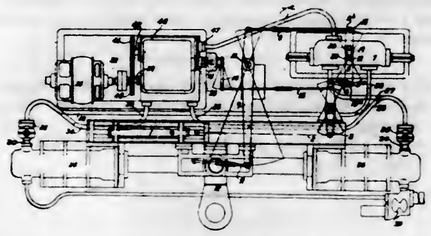
recesses being calculated to pass comparatively long blades through recesses having comparatively narrow openings, thereby comparatively increasing the peripheral rolling contact of the drums to increase the capacity of the pump.

1,426,821. TELEGRAPH SYSTEM. GEORGE C. CUMMINGS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1919. Serial No. 347,097. 7 Claims. (Cl. 178—2.)



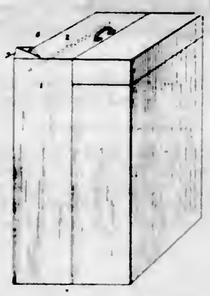
2. In a telegraph system employing positive and negative current impulses, a line conductor connecting two stations, transmitting and receiving apparatus at each of said stations, electromagnetic means continuously and conductively connected with said line and arranged to normally disable the receiving apparatus at each of said stations, and means responsive to the actuation of the transmitting apparatus at one of said stations for maintaining the receiving apparatus thereat disabled for preventing the false operation of this apparatus.

1,426,822. HYDRAULIC STEERING SYSTEM. GEORGE DARROCH, Greenock, Scotland. Filed Mar. 28, 1921. Serial No. 456,180. 4 Claims. (Cl. 138—23.)



1. In a hydraulic steering system, in combination, steering cylinders, steering rams in said cylinders, a pump for supplying fluid to said steering cylinders, said pump comprising a driven shaft, crank devices on said shaft, multiple rams operatively connected to said cranks, cylinders in which said multiple rams are reciprocable, a chest associated with said second mentioned cylinders said chest having a suction passage and a discharge passage common to all said second mentioned cylinders, said chest also formed with relatively small suction holes leading into said suction passage and so arranged as to be uncovered sufficiently for effective replenishment of said second mentioned cylinders before commencement of the discharge portion of the stroke, a revoluble tube located at the discharge end of said second mentioned cylinders and operatively connected to said driven shaft, said tube being provided with discharge ports leading to said common discharge passage so arranged that the discharge of said second mentioned cylinders occurs in sequence and that each of said second mentioned cylinders is cut off from said discharge passage during the suction stroke of said pump, controlling valves under control of the steersman for selecting the steering cylinders to which fluid is to be delivered, and a branch communicating with said tube and with said controlling valves.

1,426,823. WARDROBE-TRUNK ATTACHMENT. WILLIAM R. DICKSON, San Francisco, Calif. Filed Jan. 21, 1919. Serial No. 272,359. 1 Claim. (Cl. 190—18.)



A device for attachment to an end of a wardrobe trunk adjacent an end edge of said trunk, comprising a relatively small base plate having perforations to facilitate its attachment to the trunk and a plurality of projections formed integral with one another and with the plate, being angularly related and diminishing in width and height from the point where joined to their free ends, certain of said projections being disposed substantially in alinement with an edge of the plate, whereby said projection may be alined with an end edge of the trunk.

1,426,824. FIELDER'S GLOVE. WILLIAM L. DOAK, Pittsburgh, Pa. Filed Apr. 18, 1921. Serial No. 462,316. 5 Claims. (Cl. 2—195.)



5. A fielder's glove, comprising a thumb and index finger combined in such a way that they can separate sufficiently to permit a caught ball to pass between same, and a plurality of transversely-disposed strands connected with said thumb and index finger and being of sufficient length to form a yielding back stop for a caught ball, which, when engaged by the ball, tends to draw said thumb and index finger around the ball.

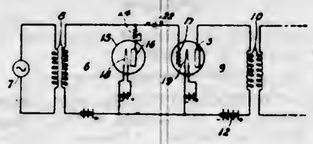
1,426,825. NUMERICAL CALCULATING DEVICE. GEORGE G. DOBSON, Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 2, 1918. Serial No. 209,965. 3 Claims. (Cl. 235—70.)

1. A slide rule for the solution of a problem involving a number of variables, at least one of which is unknown, said rule comprising a body, a duplex slide and an additional slide, scales on said body and said slides representing said variables, whereby said scales are adapted to cooperate for the determination of an unknown variable



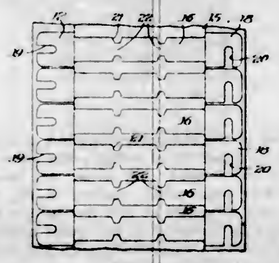
when values of other variables involved in said problem are known, one scale on each side of said body being a logarithmic scale, the scales on both sides of said duplex slide being logarithmic scales.

1,426,826. ELECTRON-DISCHARGE-DEVICE CIRCUITS. HENRY C. EGERTON, Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 19, 1917. Serial No. 181,645. 11 Claims. (Cl. 250—27.)



1. An electric system comprising an evacuated vessel having an anode, a cathode, and an auxiliary electrode, and a leakage path for positive charges from said auxiliary electrode comprising a unilateral impedance connected between said auxiliary electrode and said cathode.
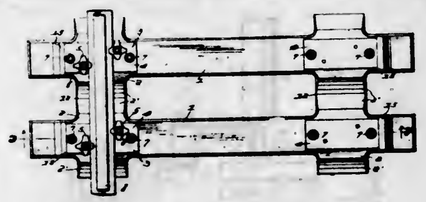
1,426,827. METHOD OF MAKING FUSE LINKS. ALFRED L. EUSTICE, Chicago, Ill. Filed Mar. 7, 1918. Serial No. 220,964. 2 Claims. (Cl. 113—112.)



1. The method of forming fuse links consisting first in providing a plurality of terminal blanks and a fusible blank, said fusible blank being flanked by said terminal blanks, then bending the edges of said blanks and pressing the same to form mechanically secure connections therebetween thereby providing a unified blank, then perfecting the electrical connection by soldering, and then stamping fuse links from the unified blank, transversely of said bent edges to produce links having a fusible central portion and end portions cut from said terminal blanks.

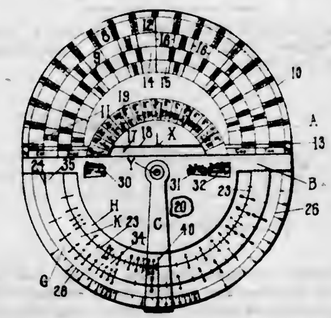
1,426,828. CROSSTIE. ROBERT FARNHAM, Philadelphia, Pa. Filed June 22, 1921. Serial No. 479,449. 3 Claims. (Cl. 238—55.)

1. A reinforced concrete cross tie which is provided with blocks for supporting rails, said blocks being recessed on their upper surfaces to receive a steel channel and on their lower surfaces to receive a plurality of nuts,



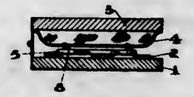
means for locking the said blocks to the body of the cross tie and means for securing rails to the said blocks.

1,426,829. CALCULATING DEVICE. GEORGE RYAN FLYNN, Lowell, Mass. Filed Apr. 8, 1921. Serial No. 459,617. 5 Claims. (Cl. 235—84.)



3. In a calculating device, the combination of a base having a slot with a straight edge in which is the center point of a semi-circular scale, and a pivot point which is at another center for semi-circular slide rule scales and another scale marked on said base, with a half disc member pivotal on said pivot point so cut as to form a semi-circular slide member with scales thereon for the slide rule and with apertures to disclose the other scale, together with a transparent runner pivotal on said pivot point having a hair line which crosses the slide rule scales.

1,426,830. APPARATUS FOR MANUFACTURING PAINTED SIGNS. WILLIAM J. FRASER, Toronto, Ontario, Canada. Filed Mar. 11, 1920. Serial No. 365,090. 8 Claims. (Cl. 101—126.)

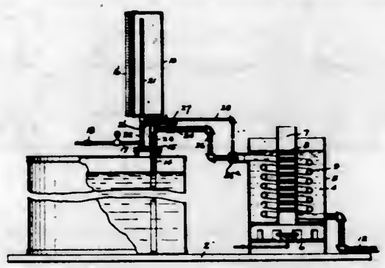


3. A mask for use in sign-making apparatus provided with a plurality of short pins, not less than three, projecting from its back, the outer ends of said pins being adapted to engage a substantial plane surface to hold the back of the mask out of contact therewith.

1,426,831. APPARATUS FOR MEASURING AND GASIFYING LIQUIDS. MORTIMER J. BROWN, Los Angeles, Calif., assignor to The Pacific R. & H. Chemical Corporation, Los Angeles, Calif., a Corporation of California. Filed June 29, 1921. Serial No. 481,438. 13 Claims. (Cl. 43—128.)

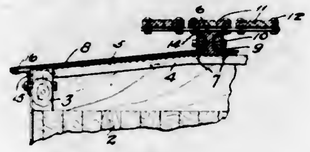
3. An apparatus for measuring and gasifying measured charges of volatile liquid, comprising a measuring cham-

ber, a gasifier connected to the measuring chamber, to which the liquid flows from the measuring chamber and in which a pressure is produced opposing said flow means



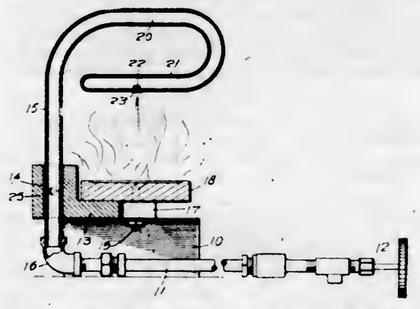
for introducing a non-condensable gas into the measuring chamber above the liquid therein and means for transmitting the pressure produced in the gasifier to the measuring chamber above the liquid therein.

1,426,832. ROOF STRUCTURE. CHARLES I. WALKER, San Francisco, Calif. Filed June 1, 1920. Serial No. 385,522. 5 Claims. (Cl. 108—5.4.)



1. A roofing structure including a ridge pole having channels in its sides, and roofing sheets having ends laid in the channels and secured therein by longitudinally extending clamping means.

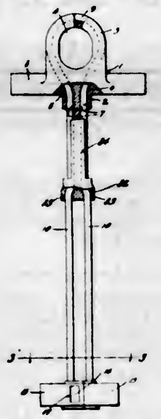
1,426,833. LIQUID-FUEL BURNER. GEORGE H. LEIFHEIT, Aurora, Ill. Filed Nov. 8, 1921. Serial No 513,712. 2 Claims. (Cl. 158—63.)



2. A liquid fuel burner comprising a base, a baffle plate, a platform on which the baffle plate is mounted, means connecting said base, baffle plate and platform, a pipe passing vertically through an opening in said support, and a set screw for securing said support to said pipe, said pipe being doubled upon itself above the baffle to provide horizontal portions at different levels, the lower portion having a gas outlet in its underside.

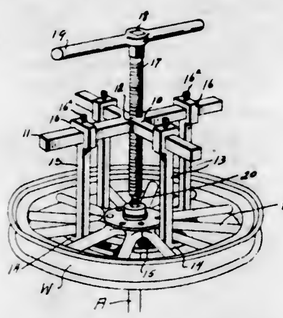
1,426,834. BEAM HANGER. FIDELIS M. MECHLING, Wichita, Kans. Filed Oct. 11, 1921. Serial No. 507,140. 4 Claims. (Cl. 255—18.)

1. In a device of the class described, a suspension member including a body having trunnions, and provided with a head, the head having a groove, and there being bores in the body; a flexible element located in the groove and



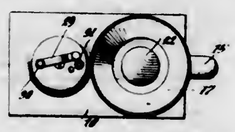
having arms which are extended through the bores; and a clamp mounted on the arms.

1,426,835. COMBINED PULLER AND PRESS. HERMAN R. MOHRMAN, Deli Rapids, S. Dak. Filed Mar. 9, 1921. Serial No. 450,886. 3 Claims. (Cl. 29—85.)



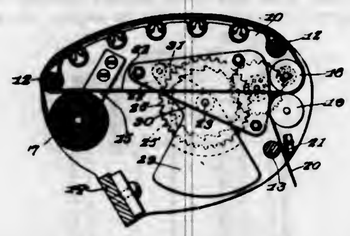
1. In a tool of the character described, a spider member embodying a plurality of radial arms, puller members adjustably mounted upon said arms, flat arcuate feet secured at their longitudinal centers to the free ends of the arms, the curvature of said feet having as an axis a point substantially central of the spider member, and a shaft having threaded engagement with the spider member at the central portion thereof.

1,426,836. APPARATUS FOR TREATING OIL. HORACE FALK NEUMEYER, Macungie, Pa. Filed Mar. 1, 1918. Serial No. 219,923. 4 Claims. (Cl. 83—71.)



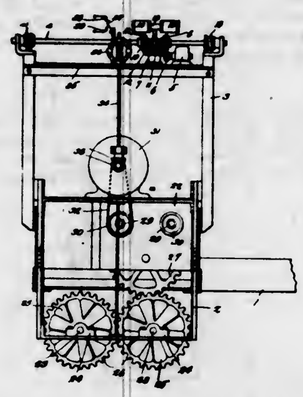
1. An apparatus for treating oil including a conduit, a core mounted therein in spaced relation, and a solenoid surrounding said conduit, to set a magnetic field within the conduit and to magnetize said core.

1,426,837. PAPER FEED FOR HEADRESTS. AUGUSTUS T. PATTIMORE, Sacramento, Calif. Filed Nov. 17, 1921. Serial No. 515,851. 2 Claims. (Cl. 155—176.)



1. The combination with the head-rest of a barber's chair, of a paper feeding mechanism comprising a paper roll support, a paper guide, feed rolls between which the paper is moved, a train of gears engaged with one of the feed rolls, a pendulum, a pawl carried by the pendulum and engaged with one of the gears of the train, and an endless belt between the head-rest and the paper and movable therewith.

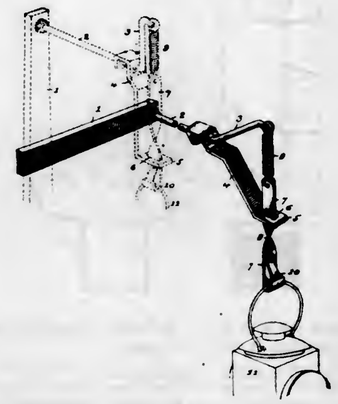
1,426,838. WATER MOTOR. WILLIAM PETERSON, Sargent, Nebr. Filed Mar. 21, 1922. Serial No. 545,518. 2 Claims. (Cl. 170—129.)



1. Apparatus of the class described including a stationary structure, a frame mounted for up and down sliding movement therein, parallel shafts journaled within the lower portion of the frame, a series of propellers upon the shafts for rotating the shafts in opposite directions respectively, meshing gears on the shafts, a generator movable with the frame, means for transmitting motion to the generator from the gears, motor driven screws for raising and lowering the frame, a centrifugal governor driven by the gears, and electrically operated means controlled by the governor for controlling the operation of the motor and for raising or lowering the frame to maintain a substantially uniform speed of rotation of the propellers.

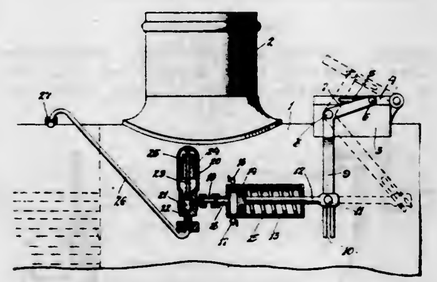
1,426,839. RAILWAY-CROSSING-GATE SIGNAL. RALPH E. PIERCE, Zion, Ill. Filed Feb. 17, 1922. Serial No. 537,169. 4 Claims. (Cl. 246—294.)

1. In a signal appliance of the type described, the combination of a vertically swinging gate arm, a suspension link pivotally connected to said arm and provided at its lower end with means for supporting a signal lantern, a pendant link pivotally connected to the gate arm at a point removed from the connection of the



suspension link, and an operative connection between said links for imparting a turning movement to the suspension link in unison with the movement of the gate arm.

1,426,840. DRAFT CONTROLLER FOR LOCOMOTIVES. HENRY M. RICE, Knoxville, Tenn. Filed May 27, 1921. Serial No. 473,001. 1 Claim. (Cl. 110—157.)

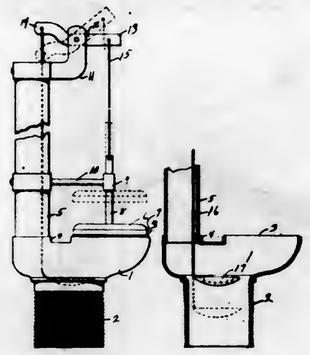


The combination with the draft chamber of a steam boiler, of a draft box open to said chamber, a swinging closure for said draft box provided with a longitudinal slot in one side edge, an angle lever fulcrumed upon the draft box and provided at one end with a pin playing in the slot in the said closure and provided at its opposite end with a longitudinal slot, a rod carrying a pin playing in the slot of the angle lever, and pressure-controlled means acting on said rod whereby to oscillate the lever.

1,426,841. FLUSH VALVE. HENRY W. SCHWAB, Muscatine, Iowa. Filed June 28, 1921. Serial No. 481,021. 1 Claim. (Cl. 4—5.)

In combination, a flush valve comprising a valve proper, a rocker arm fulcrumed above the valve, a rod attached to one end of the rocker arm, a dipper situated in the body portion of the valve and arranged to receive the

force of the water when the valve is open, said dipper being rigidly mounted on said rod and supported thereby,

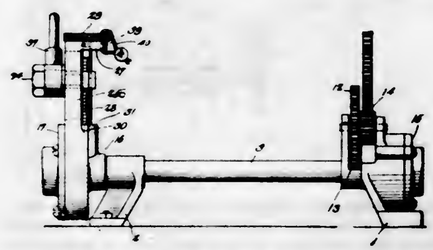


and a second rod attached to the other end of said rocker arm and attached to the valve proper.

1,426,842. PROCESS OF MAKING FRICTION FACINGS. WILLIAM C. SWIFT, Cambridge, Mass., assignor to Standard Woven Fabric Company, Walpole, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1918. Serial No. 264,245. 5 Claims. (Cl. 92—21.)

1. The process of making blank stock for friction facings which consists in mixing the facing materials, including asbestos fibre and a binder, substantially insoluble in water, with a relatively large quantity of liquid solvent for the binder to enable said liquid to hold the materials in suspension, and then straining out a sufficient quantity of the solid matter from the mixture to form a blank of suitable form and thickness, whereby said blank will be uniformly impregnated with the binder.

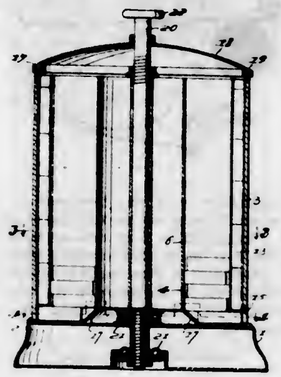
1,426,843. POWER-TRANSMITTING MECHANISM. JOHN J. TOKHEIM, Cedar Rapids, Iowa. Filed Mar. 21, 1922. Serial No. 545,424. 6 Claims. (Cl. 74—53.)



1. A power transmitting mechanism including a shaft, a friction clutch for holding the shaft against rotation in one direction, a casing rotatably mounted on the shaft, a friction clutch therein for rotating the shaft in the opposite direction, a wrist pin connected to the casing means including a screw for adjusting the wrist pin radially, and sealing means for holding the screw against rotation.

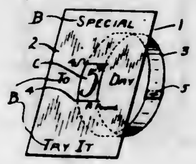
1,426,844. ARTICLE DISPLAY AND DELIVERY CABINET. EMORY S. WOOD, Commerce, Ga. Filed Dec. 17, 1921. Serial No. 523,018. 5 Claims. (Cl. 211—21.)

1. In an article display and delivering cabinet, stationary and revoluble cabinet sections, the latter being mounted within the former, the revoluble cabinet section having compartments for articles on display, and compartments for articles to be sold, said compartments being alternately arranged, the compartments containing the articles to be sold being disposed inwardly of the compartments containing articles on display, the wall of



the stationary cabinet section having an opening through which articles may be withdrawn from the various compartments containing articles to be sold, the lower inner portions of the compartments containing articles to be sold having means for causing the ejection of an article toward said opening.

1,426,845. DISPLAY CARD AND THE LIKE. GEORGE TAYLOR HUMBLE and RICHARD NICHOLSON HUMBLE, Brantford, Ontario, Canada. Filed Dec. 6, 1921. Serial No. 520,394. 3 Claims. (Cl. 40—148.)

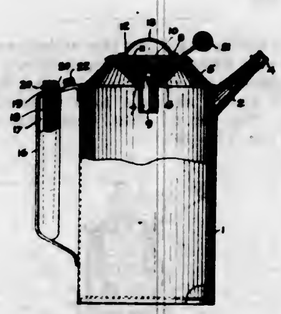


3. A device of the class described, comprising a card provided with a plurality of spaced, parallel transverse slits in the central portion thereof and bearing suitable display matter on its front face, a flexible strip extending through said slits so that a small section thereof lies in front of the card between the aforesaid slits, a plurality of spaced legends on the front face of said strip and adapted to be displayed one at a time in front of the card as the strip is moved with respect to the card, and means for detachably connecting the ends of the strip together at the rear of the card.

1,426,846. CONTAINER FOR DISPENSING LIQUIDS. ROBERT JOHN EDWARD CRAIG, Collingwood, Ontario, Canada. Filed Sept. 2, 1921. Serial No. 498,123. 4 Claims. (Cl. 220—85.)

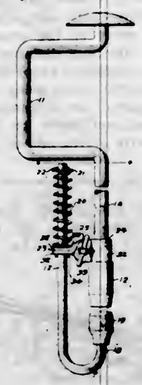
1. In a container for dispensing liquids, a top portion provided with a cup shaped portion, said cup-shaped portion having a central orifice therein, a cap covering the

cup-shaped portion, a depending tube formed on the lower face of the cap and extending through the central orifice



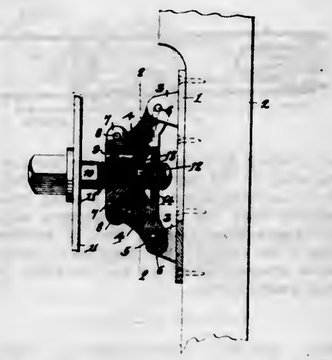
for closing the same and an outwardly extending flange formed on the tube intermediately of the length of the same.

1,426,847. BOLT-RETAINING ATTACHMENT FOR WRENCHES. EDWARD K. DEGENER, Lewistown, Mont. Filed Jan. 27, 1921. Serial No. 440,393. 2 Claims. (Cl. 81—55.)



1. A socket wrench comprising a shank and a socket head, a retaining rod including a shank and a socket head, a two part bracket member adapted for attachment of said retaining rod to said socket wrench, and whereby the shank of said retaining rod lies substantially parallel with the shank of said socket wrench, said part of said two part member including a relatively flat arcuated portion and a half circular sleeve portion, the axis of the latter being substantially at right angles to the plane of the flat portion, said part adapted for pivotal mounting on said rod independent of the other portion so that the half circle sleeve portion extend forwardly to provide an enclosed sleeve for loose gripping about the shank of said socket wrench, and adjusting means engaging both parts of said two part member intermediate the flat and sleeve portions thereof, whereby the sleeve portions can be readily adjusted with said rod as a pivot point for said parts, and spring means for engaging said two part member and said retaining rod for normally forcing the latter in direction to have the socket head thereof disposed adjacent the socket head of said socket wrench.

1,426,848. TABLE-LEG FASTENER. CHARLES R. DOSSWORTH, Grand Rapids, Mich. Filed Oct. 5, 1921. Serial No. 505,553. 3 Claims. (Cl. 45—48.)



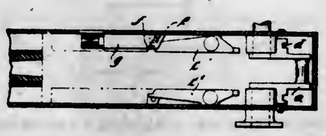
1. In combination, a plate, a pair of arms pivoted to the plate, a block having a threaded bore, means for pivotally attaching the block to the ends of the arms, a bolt adapted to be received in threaded engagement with the block, said bolt provided with a groove in its threaded portions intermediate its ends, and fingers projecting from the arms for engagement in the groove so as to hold the bolt locked against rotation.

1,426,849. DEVICE FOR ACTUATING CONTROL GEARS FOR MACHINE GUNS. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands. Filed Sept. 1, 1920. Serial No. 407,537. 2 Claims. (Cl. 89—27.)



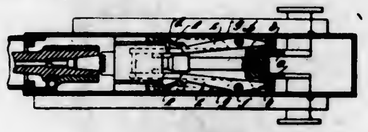
1. In combination with a controlling member of a machine gun firing mechanism, a rotor, and a centrifugally operated impact element, carried by the rotor and arranged to strike and actuate said controlling member.

1,426,850. SAFETY TRIGGER GUARD ON MACHINE GUNS. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands. Filed Sept. 1, 1920. Serial No. 407,538. 3 Claims. (Cl. 89—11.)



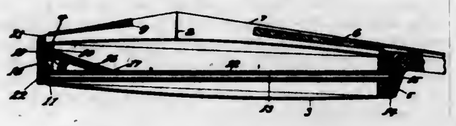
1. In a breech block mechanism for machine guns, operated by a rotating crank, and provided with pivoting levers which lock the breech block in position at the time of firing, a sliding trigger catch actuated by one of the locking levers in such a manner as to prevent contact with the trigger while the breech block is unlocked.

1,426,851. BREECH LOCK FOR MACHINE GUNS. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands. Filed Sept. 1, 1920. Serial No. 407,540. 2 Claims. (Cl. 89—11.)



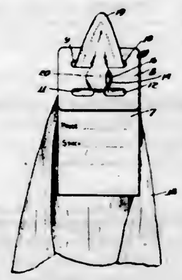
2. In a breech block mechanism for machine guns, a rotating crank having cam faced grooves, locking levers, subject to compression but not to bending stress, pivotally mounted upon the frame of the gun, engaging behind the breech block, locking same in position during the firing of the cartridge and operated by means of said cam faced grooves formed on the operating crank and positively guided thereby.

1,426,852. STRINGED INSTRUMENT. ERNST EMIL FROZETH, Minneapolis, Minn. Filed Apr. 12, 1921. Serial No. 460,753. 4 Claims. (Cl. 84—275.)



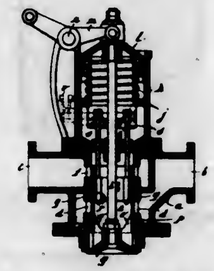
1. The combination with a stringed instrument having a hollow sound box and a neck piece secured thereon, of a heel plate at the butt end of the instrument, strings positioned over the face of the instrument and means for securing them to the heel plate, a hollow brace extending longitudinally within the sound box, a rod within the brace, said rod being secured at one end in the neck piece and having its other end terminating in the heel plate, an angular brace bracing the heel plate against the first mentioned brace whereby the plate will be spaced from the sound box.

1,426,853. TAG. SIDNEY R. GEIST, New York, N. Y. Filed Feb. 13, 1922. Serial No. 536,253. 2 Claims. (Cl. 40—20.)



2. A self-clinging tag, comprising a tag structure provided with a number of slots merging into each other, some of said slots each having a substantially arcuate form, said slots being so located and arranged as to leave a portion of said tag structure in the proximate form of a disk but integral with the rest of the tag structure, so that said portion of the tag structure having the proximate form of a disk may be bent out of the general plane of the tag structure to permit the insertion of a piece of dry goods, and then sprung back again approximately into its original position, the tag structure being further provided with portions located intermediate said slots and extending toward said portion having the form of a disk.

1,426,854. APPARATUS FOR REGULATING THE SUPPLY OF EXPLOSIVE MIXTURE TO GAS ENGINES. TOUSSAINT GENDARME, Seraing, Belgium, assignor to Societe Anonyme John Cockerill, Seraing, Belgium. Filed Oct. 27, 1919. Serial No. 333,695. 2 Claims. (Cl. 123—108.)



1. The combination of a valve casing having therein a cylindrical admission chamber, with gas and air admission ports spaced endwise thereof, a valve controlling the passage of the mixture from the chamber to the cylinder, a pair of concentric cylindrical slide valves slidable within the chamber, one of the slide valves having ports cooperative with the ports of the chamber to vary the admission of gas and air in a definite ratio and rigidly connected to the first mentioned valve for operation therewith, the other cylindrical valve being responsive to the engine governor to control the admission of gas through the gas inlet port proportionally to the speed of the engine and independently of the admission of air through the air intake port.

1,426,855. LOADING MACHINE. ROBERT K. GIFFEN, Wheeling, W. Va. Filed Apr. 30, 1920. Serial No. 377,777. 3 Claims. (Cl. 198—11.)



1. A loading machine comprising a truck, said truck having a frame, a scoop, links pivotally connected with said scoop and with the front end of the frame whereby a gravity-seated position of the scoop is maintained during operation, said scoop being actuated alone by the travel of the truck, and an endless travelling conveyor superposed upon said truck and having its front end disposed in underlying relation to the rear portion of the carrying surface of said scoop.

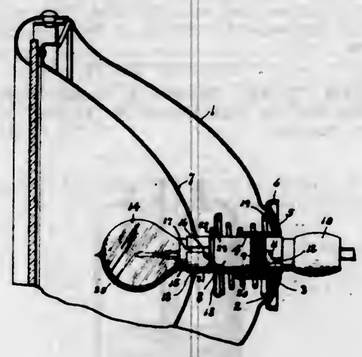
1,426,856. AUTOMOBILE LICENSE PLATE. PLEASANT B. GILES, Waverly, Iowa, assignor of one-half to Julian Q. Lauer, Waverly, Iowa. Filed Apr. 23, 1917. Serial No. 163,849. 1 Claim. (Cl. 40—63.)

The combination with an opaque integral number plate having upon it numerals forming a permanent number and a separate space, of a detachable opaque yearly license slip, tag or plate adapted to be attached to the number plate at said space and having upon it numerals and letters, said numerals on the detachable yearly license slip, tag or plate forming the number of the year to which the license plate is immediately applicable and said letters indicating a geographical and political sub-



division or area over which said license plate is usable, whereby such slip, tag or plate may be substituted by or for a similar device bearing different indicia of year or area without changing the primary number plate or the permanent number thereon.

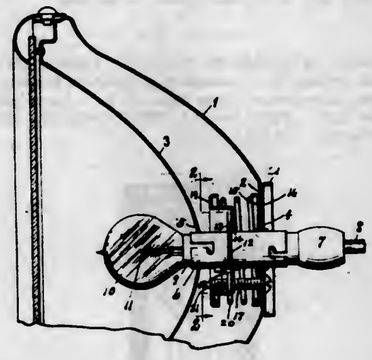
1,426,857. FOCUSING DEVICE. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmunds & Jones Corporation, Detroit, Mich., a Corporation of New York. Filed Dec. 15, 1920. Serial No. 430,958. 6 Claims. (Cl. 240—44.)



1. In a headlight, the combination of a body having an aperture, a connector sleeve extending into the body through said aperture, and means attached to said sleeve and gripping the metal of the body around the aperture to hold the sleeve in desired position, the diameter of the aperture being sufficient to permit lateral movement of the sleeve therein, said gripping means comprising a plate fitting against the body around the aperture and attached to the sleeve, a collar movable longitudinally of the sleeve and means including a spring to force the collar and plate toward each other with the metal of the body between them.

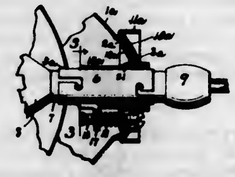
1,426,858. FOCUSING DEVICE FOR HEADLIGHTS. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmunds & Jones Corporation, Detroit, Mich., a Corporation of New York. Filed Jan. 10, 1921. Serial No. 436,097. 4 Claims. (Cl. 240—44.)

1. In a headlight, the combination of a cup-shaped lamp body having a central opening, a pair of plates slidably fitting said body around the aperture, a connector sleeve slidably mounted in said plates and movable laterally within said aperture, a screw mounted in said plates to adjust the sleeve longitudinally, a spring mounted on the sleeve to cause the plates to grip the metal of the body between them, said sleeve being formed with



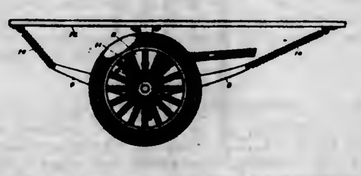
a circumferential groove, a clip in said groove, and a collar on said sleeve and engaging the clip to serve as an abutment for said spring.

1,426,859. FOCUSING DEVICE FOR HEADLIGHTS. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmunds & Jones Corporation, Detroit, Mich., a Corporation of New York. Filed Jan. 10, 1921. Serial No. 436,098. 3 Claims. (Cl. 240—44.)



1. In a headlight, a body having an aperture, a pair of plates fitting the body around the aperture, one on the outside and the other on the inside thereof, a tube connecting said plates and being in threaded engagement with one of them, a connector sleeve slidable in the tube, a screw carried by the plates to slide the connector sleeve longitudinally, means on the sleeve with which the screw engages, and a spring to hold the screw and sleeve forward.

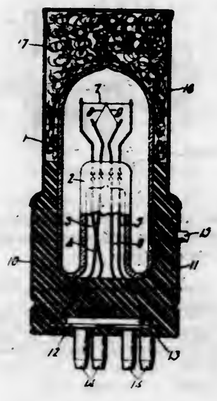
1,426,860. OSCILLATING WHEEL AND DRIVING MECHANISM. EDWIN J. GOULD, Oakland, Calif. Filed June 18, 1921. Serial No. 478,723. 4 Claims. (Cl. 180—71.)



1. The combination in an oscillating wheel and driving mechanism, of a disk and pitman drive, a means for rotating one disk of said drive, a stub axle attached to the other disk of said drive, a wheel attached to said stub axle, a collar in which said stub axle revolves, and springs attaching said collar to the vehicle frame in

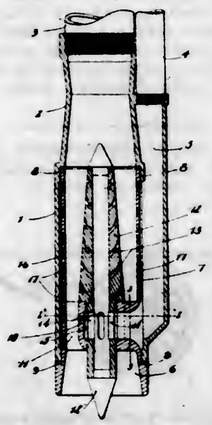
such manner as to hold said stub axle beneath the driving axle and at the same time allow said stub axle and attached wheel to oscillate, backward and upward whenever said wheel encounters an obstacle.

1,426,861. MEASURING DEVICE. ARTHUR HADDOCK, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 17, 1919. Serial No. 345,623. 6 Claims. (Cl. 171—73.)



5. A measuring device having a surrounding evacuated envelope, electrical terminals for said device adjacent one end of said envelope, and means at the other end of said envelope for preventing fracture of the envelope and protecting said device from heat radiation from without.

1,426,862. FLUID-OPERATED PUMPING SYSTEM. HALBERT B. HALVORSEN, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 20, 1919. Serial No. 298,466. 20 Claims. (Cl. 103—84.)



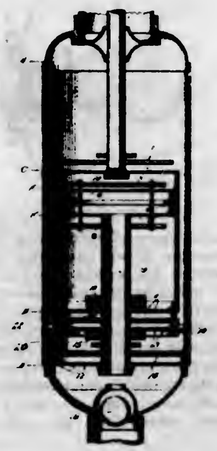
1. In an air lift pump, a nozzle having provision for directing aerating fluid into intersecting jets whose axes lie in planes including the axis of the nozzle, the points of intersection lying in a surface of revolution.

1,426,863. AIR-LIFT PUMPING MECHANISM. HALBERT B. HALVORSEN, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 23, 1920. Serial No. 398,466. 11 Claims. (Cl. 103—84.)



11. In an air lift pump, a foot piece comprising means for dividing the ascending column of liquid into an unbroken annulus, means for supporting said annulus forming means disposed at the upper end thereof, and means for simultaneously aerating said annulus from both sides thereof arranged below said supporting means and including jet forming means formed in said first mentioned means.

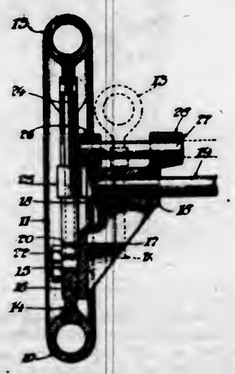
1,426,864. PUMP. HERBERT A. HANDY, Tulsa, Okla. Filed Mar. 14, 1921. Serial No. 453,556. 1 Claim. (Cl. 103—4.)



A pump consisting of a main cylinder, having attached to its lower end, and extending partially through it, a stand pipe fitted with a hollow head supplied with ports both on the upper and lower sides, said ports being controlled by valves; said main cylinder being supplied at the lower end with a port and said port controlled by a valve, a piston working reciprocally inside said main cylinder and outside said hollow head and stand pipe, and fitted closely thereto by packing; said piston supplied at the upper end with a port, said port controlled by a valve, and at the lower end with two ports, with

a small open chamber between, said chamber being supplied with a valve controlling said ports, and said chamber being supplied with open ports in its sides, all substantially as described.

1,426,865. COLLAPSIBLE TIRE CORE. ARCHER H. HARRIS, Barberton, Ohio. Filed Aug. 9, 1921. Serial No. 490,877. 5 Claims. (Cl. 154—9.)



1. In a collapsible tire-core comprising hingedly connected sections and a removable key section therefor, a supporting element on one of said first-named sections, and slidable connections between the key section and the supporting element, said connections including means for guiding the key section in two rectilinear paths, one within the interior plane of the core and the other at right angles thereto.

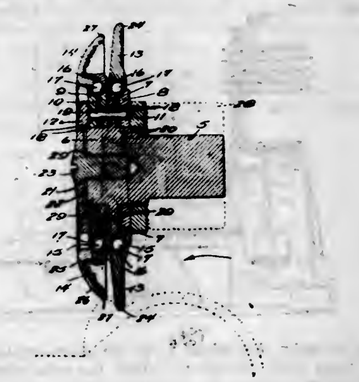
1,426,866. CONCRETE MOLD. LEWIS HARRIS, Benton, Ill. Filed Oct. 21, 1919. Serial No. 332,129. 3 Claims. (Cl. 25—131.)



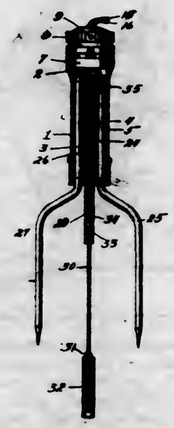
1. A mold or form for producing concrete wall structures having a side wall section provided with openings forming seats for the extremities of transverse wall reenforcing elements, clamping knives sliding mounted upon said wall section for cooperation with said seats, and a cam for actuating said knives and locking them in position to engage the seated extremities of transverse wall reenforcing elements.

1,426,867. STITCHING DEVICE. WILLIAM B. HARSEL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 11, 1918, Serial No. 216,581. Renewed Feb. 8, 1922. Serial No. 533,979. 5 Claims. (Cl. 154—10.)

1. A compound stitcher of the character described, including a hub, a pair of complemental bearing discs mounted thereon to form an annular ball bearing raceway in their periphery, means for holding the discs against accidental separation but permitting separated or approachment of the discs for adjustment purposes, a stitcher disc and a series of ball bearings seated in the said raceway and supporting the stitcher disc for rotation about the bearing discs.



1,426,868. CADMIUM TEST DEVICE. BUTLER J. HASKINS, Kansas City, Mo. Filed May 10, 1920. Serial No. 380,275. 6 Claims. (Cl. 175—183.)

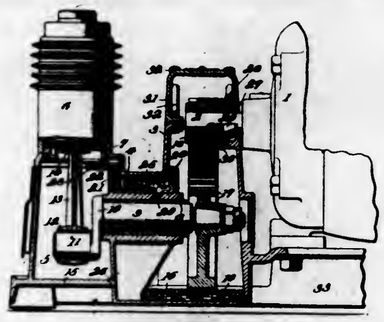


6. A cadmium test device, comprising a pair of prods, a cadmium electrode, a volt meter, and a switch for completing a circuit through the volt meter and either of said prods and the electrode, or through said pair of prods and the volt meter.

1,426,869. GARAGE AIR COMPRESSOR. GEORGE EDGAR HAZARD, Rochester, N. Y., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Filed Nov. 15, 1920. Serial No. 424,153. 7 Claims. (Cl. 184—6.)

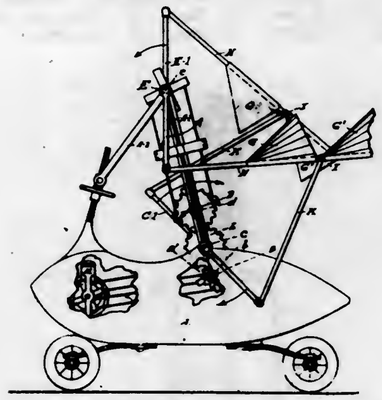
7. A motor driven air compressor, comprising a main shaft bearing having an oil well at its top, a gear housing at one side of the bearing and in communication with the said oil well, a crank case at the opposite side of the main bearing, a cylinder on the crank case, a piston in the cylinder, a pump shaft operatively connected with

the piston, a wick in the oil well in communication with the cylinder, a gear in the housing carried by the pump shaft, an oil well in the housing into which the gear



dips whereby the splash from the gear supplies oil to the main shaft oil well for oiling the main bearing and the piston through the aforesaid wick.

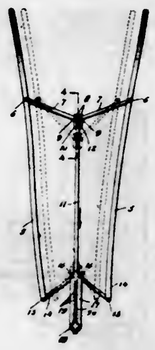
1,426,870. BUOYING AND DRIVING MECHANISM FOR FLYING MACHINES. GUSTAF HEDÉN, New York, N. Y. Filed May 12, 1921. Serial No. 468,948. 1 Claim. (Cl. 244—11.)



A flying machine comprising an adjustable body, upper and lower, horizontal and parallel crank shafts mounted therein, rotatable in opposite directions at the same angular speed, oppositely disposed, radial and parallel cranks on said crank shafts, guiding frames joined at their lower ends to said lower cranks, flexible wings with loose rear edges mounted in frames, said frames rotatable and oscillatable between the crank pins of the upper crank shaft and the upper end of said guiding frames, said wing frames connected to said upper cranks at their upper ends and to said guiding frames at their lower ends, means for adjusting the balance of the body, means for rotating the two crank shafts at same angular speed in opposite directions, and for rotating and oscillating the frames between the opposing crank pins of the two crank shafts.

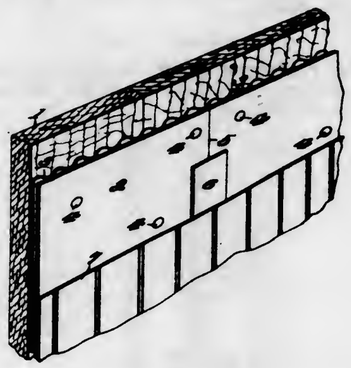
1,426,871. TROUSERS STRETCHER. JOSEPH HERN, Kingston, N. Y. Filed Aug. 25, 1921. Serial No. 495,351. 2 Claims. (Cl. 223—19.)

1. A trouser stretcher comprising a pair of spaced, longitudinal bars, a pivot plate, a pair of toothed intermeshing links pivotally connected with said bars and with said pivot plate, a locking plate, a pair of additional links pivotally connected with said bars and with said locking plate, a member connected with said pivot plate



and slidably connected with said locking plate whereby said toothed links may be coincidentally adjusted and co-operating means on said locking plate and said member for locking the stretcher in an adjusted position.

1,426,872. MEANS FOR COVERING WOODEN WALL STRUCTURES. FRED HUMMERT, San Antonio, Tex. Filed Sept. 29, 1919. Serial No. 327,084. 3 Claims. (Cl. 20—4.

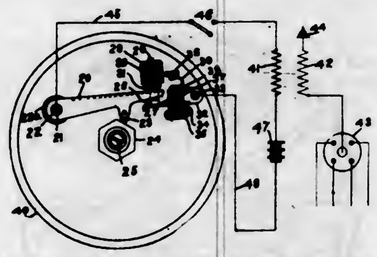


1. A facing for sheathing and the like comprising a layer of corrugated paper attached to said sheathing with the corrugations of said paper running substantially parallel with the grain of the sheathing, and a layer of flat paper attached to said corrugated paper constituting a wall facing adapted to receive wall paper or other ornamentation.

1,426,873. IGNITION SYSTEM. JOHN H. HUNT, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Jan. 2, 1918. Serial No. 209,845. 12 Claims. (Cl. 200—30.)

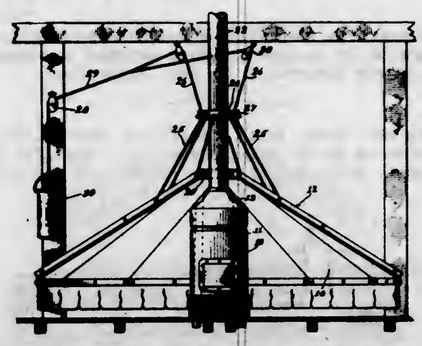
1. In a timer mechanism, the combination with co-operating contacts; of means for separating the contacts; means for bringing the contacts together after separation; means for absorbing the energy of impact of the

contacts, consisting of a yieldable elastic support for one of the contacts which absorbs energy of impact



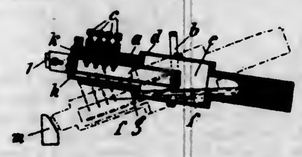
and becomes distorted; and means for retarding the return movement of the support to its normal shape.

1,426,874. BROODER CONSTRUCTION. THOMAS W. HUNTER, Oakland, Calif. Filed Nov. 24, 1920. Serial No. 426,186. 3 Claims. (Cl. 119—32.)



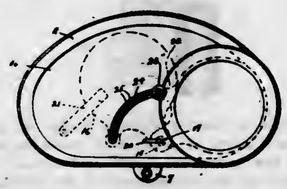
1. A brooder for fowls comprising a dome formed of tapering sheets having upturned meeting edges bolted together to form a cone, and having downturned peripheral edges, and a fabric material dependent from said edges, a platform near which the edge of the fabric approaches, a heater resting on said platform having a conical top within the dome, and a central smoke escape flue, a guide ring slidable on the flue above the dome, stay wires connecting the guide rings to the dome and suspending cords from the guide ring, passing through the ring and over pulleys fixed above, and a counterweight with which the cords are connected.

1,426,875. MERCURY STEP SWITCH FOR ELECTRICAL MACHINES AND APPARATUS. KARL KAISSER, Amsterdam, Netherlands, assignor to Metallbank und Metallurgische Gesellschaft, Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 29, 1920. Serial No. 427,121. 3 Claims. (Cl. 200—152.)



1. In an electric time switch of the character set forth, in combination, an outer chamber serving as a reservoir for a fluid electrical conductor, a contact chamber of approximately half the length of said outer chamber and nested therein, a passage of relatively narrow cross-section between the said two chambers and means in said passage for controlling the flow of said fluid conductor therethrough, contact members extending into said inner chamber, means for vertically tiltably suspending said nested chambers, and circuit closing means adapted to be operated by the tilting of the device.

1,426,876. CUSPIDOR FOR VEHICLES. ELIZABETH KANNOW, Hinton, Iowa. Filed Apr. 15, 1921. Serial No. 461,726. 2 Claims. (Cl. 4—39.)



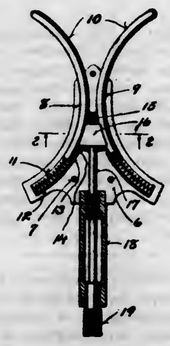
1. A cuspidor comprising a substantially upright tube having a slot in one side thereof, a horizontal supporting plate secured to one side of the tube and positioned above said slot, a closure plate pivoted below said first plate and through the slot to open and close the tube, said first plate having an arcuate slot concentric with the pivot of the closure plate, an operating handle on the closure plate projecting through the arcuate slot, and an element on the under side of the supporting plate to engage and support the free side of the closure plate in open position.

1,426,877. CHAIN-LINK COUPLING. JOHN D. KING, Syracuse, N. Y. Filed Mar. 4, 1922. Serial No. 540,991. 3 Claims. (Cl. 59—85.)



1. An emergency link-coupling for chains consisting of a rod or wire bent intermediate its ends to form a return bend-loop and opposite arms extending in the same general direction from the loop, one of the arms terminating in an eye and the other arm extending some distance beyond the eye and terminating in an offset extension in a plane substantially parallel with the eye.

1,426,878. CALIPERS. HENRY KOEBKE, Waukesha, Wis. Filed Sept. 1, 1921. Serial No. 497,489. 3 Claims. (Cl. 33—143.)



1. A device of the character described comprising an elongated housing having therein a pair of bores curved

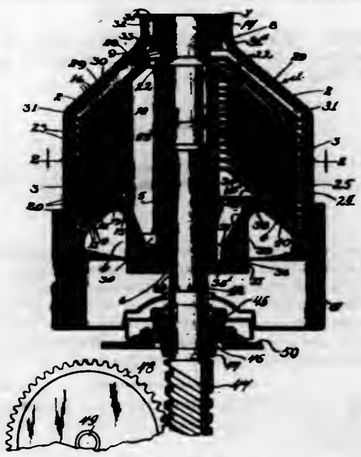
toward each other, plungers reciprocable in said bores, springs seated in the bottoms of bores and urging the plungers outwardly and means for locking the plungers against movement.

1,426,879. METHOD OF MANUFACTURING TUBULAR BODIES OF CORRUGATED PASTEBOARD. BERNHARD KREHER, Dresden, Germany. Filed Mar. 9, 1921. Serial No. 450,879. 2 Claims. (Cl. 93—81.)



1. A method of making tubular bodies of a plurality of superposed layers of corrugated paste-board, consisting in first combining said layers as flat pieces and then winding them up, the corrugations of the combined layers crossing each other from layer to layer and running diagonally to the winding-direction, substantially as and for the purpose set forth.

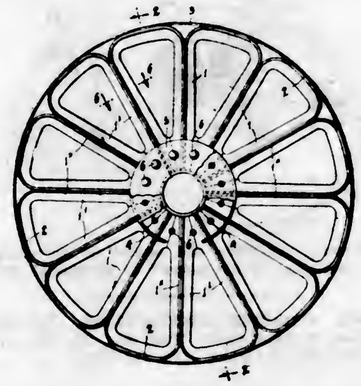
1,426,880. CREAM SEPARATOR. OTTO KRENKE, Port Huron, Mich., assignor to Earnest L. Powers, Port Huron, Mich. Filed Sept. 28, 1921. Serial No. 502,779. 9 Claims. (Cl. 233—29.)



1. In a cream separator, the combination of a rotary bowl shell forming a separator chamber provided with inlet and outlet openings including a cream outlet, a series of superposed annular truncated-cone-shaped separator disks located inside of the separator chamber and provided with spaces between said disks, and an inner annular baffle wall encircling the axis of the bowl shell and located between said axis and the outer peripheral wall of the separator chamber and bowl shell and forming a cream chamber within and encircled by said annular inner baffle wall and with which said cream outlet communicates.

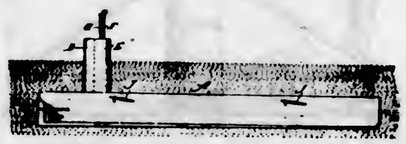
1,426,881. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Apr. 30, 1921. Serial No. 465,669. 5 Claims. (Cl. 301—66.)

1. In a metal wheel, wheel spokes consisting each of two angle bars, two arms of which constitute together the face of the spoke while the two remaining arms lie against one another face to face in a plane transverse to



the plane of the wheel and constitute a compound strengthening rib for the spoke, resisting distortion or bending in a plane transverse to the plane of the wheel.

1,426,882. SHIP FOR SUBMARINE NAVIGATION. WILLIAM M. LE MOYNE, Chicago, Ill. Filed Feb. 5, 1918. Serial No. 215,444. 4 Claims. (Cl. 114—16.)



1. A cargo ship adapted for surface and submarine navigation, having a single power propulsion plant and having pipes open at their tops and of such length as to permit the ship to travel submerged to the area of still water, with such pipes extending above the water surface and of such size as to afford at all times a copious supply of fresh air and discharge of products of combustion and foul air.

1,426,883. COMBINED TIE AND FASTENER. ABRAHAM LEANER, Brooklyn, N. Y. Filed Feb. 9, 1921. Serial No. 443,626. 2 Claims. (Cl. 2—34.)



1. A combined tie and fastener comprising a tie having a polygonal socket on its inner face, and a button adapted to pass through the button hole of the neck band of a shirt and the button holes of a collar and snap into the socket of the tie, said button consisting of a base, a flat and tapering shank, the shank being of uniform thickness throghout its length and the portion thereof which lies in the button hole of the neck band being of a width to prevent it from turning therein, and a polygonal head terminating in a round portion and provided with a polygonal portion having its sides inclined inwardly toward

the round portion and forming therewith a shoulder, the polygonal portion of the head fitting snugly in the socket of the tie and preventing the turning of the tie thereon.

1,426,884. FLEXIBLE CHAIN. CHARLES M. LEVY, New York, N. Y., assignor to Charles M. Levy & Son, New York, N. Y., a Copartnership composed of Charles M. Levy and Norman C. Levy. Filed May 21, 1921. Serial No. 471,303. 7 Claims. (Cl. 59—80.)



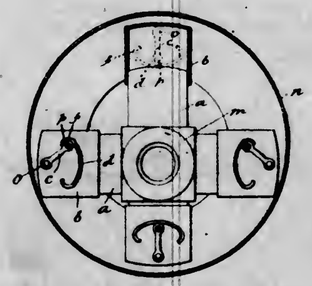
1. A flexible chain comprising a series of arch-shape outer links, a series of arch-shape inner links, the side members of said links extending in opposite directions and overlapping to form the sides of the chain, and each of the outer links being connected to two adjacent inner links.

1,426,885. FLEXIBLE CHAIN. NORMAN C. LEVY, New York, N. Y. Filed July 23, 1921. Serial No. 487,163. 5 Claims. (Cl. 59—80.)



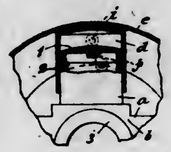
1. A flexible chain of channel form open on its inner side and comprising a series of arch-shape outer links arranged side by side to form a channel and having their side members apertured, and connecting links bridging the joints between the side members of the outer links each of said connecting links being formed with lugs extending through apertures in the side members of the adjacent outer links said lugs being bent laterally and clinched within the channel formed by the outer links the side members of each outer link being flexibly secured to the side members of adjacent outer links by two of said connecting links.

1,426,886. AIR-CUSHION HUB. BORIS V. LOUTSKOY, Andreewka, Russia. Filed May 12, 1920. Serial No. 380,946. 2 Claims. (Cl. 152—44.)



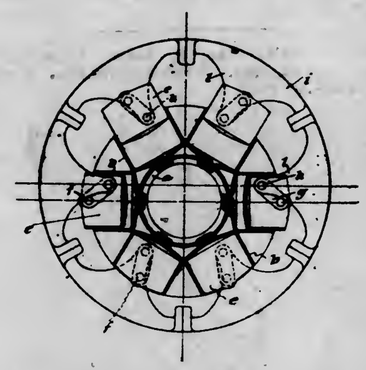
2. In a pneumatic cushioned wheel, a hub, a rim member, and a plurality of spokes connecting the hub and the rim, each of said spokes comprising a piston carried by the hub and a cylinder slidable on the piston, a link pivotally connecting the cylinder to the rim, and guides carried upon the cylinder having stop shoulders at opposite ends adapted to engage the link and limit the swinging thereof in opposite directions.

1,426,887. PNEUMATIC HUB FOR VEHICLE WHEELS. BORIS V. LOUTSKOY, Andreewka, Russia. Filed May 12, 1920. Serial No. 380,948. 2 Claims. (Cl. 152—44.)



1. In a pneumatic cushioned wheel, a hub provided with radial extensions and each extension being externally screwthreaded, caps detachably fitted over said extensions and engaging the screw threads thereof for securely holding the caps over said extensions, a rim enclosing the hub with its extensions, and cylinders carried by the rim engaging over said caps and co-operating therewith for pocketing air within the cylinders.

1,426,888. PNEUMATIC HUB FOR VEHICLE WHEELS. BORIS V. LOUTSKOY, Andreewka, Russia. Filed May 21, 1920. Serial No. 383,327. 2 Claims. (Cl. 152—44.)

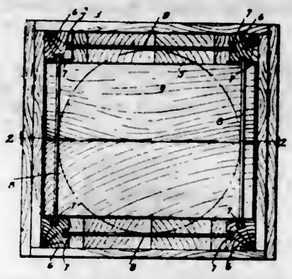


1. In a pneumatic cushioned wheel, a rim, a hub, a plurality of cylinders carried by the hub, pistons mounted in the cylinders, said rim having inwardly extending arms adapted to project into the pistons and being relatively narrow, links connecting the inner ends of the arms to the pistons and including crank pins mounted on the arms engaging the links, and retaining means for the crank pins embodying rings fitted upon said crank pins, bands engaging about the rings, and means for clamping the bands on the rings and to the ends of the arms.

1,426,889. CARBOY. CHARLES LEFKOWITZ, ELMER E. ROSS, and HARRY LUBIN, Newark, N. J. Filed Nov. 12, 1921. Serial No. 514,673. 6 Claims. (Cl. 217—64.)

1. A carboy comprising a rectangular box, a plurality of vertically disposed wooden plates spaced from the

walls of the box, and adapted to cushion the lateral movement of a bottle within the box, corner posts within the



box having vertical grooves therein, wherein the edges of said plates are slidable.

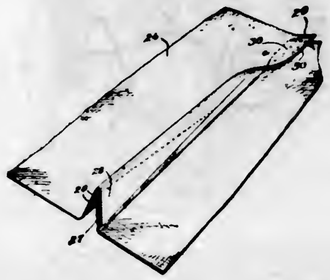
1,426,890. RECOVERY OF METALS FROM SILICATES. FRANCIS M. MCCLENAHAN, Oakmont, Pa. Filed Dec. 22, 1920. Serial No. 432,518. 7 Claims. (Cl. 23—22.)

1. A step in the recovery of metals from silicates containing them, which consists in decomposing the silicates by an excess of a fluoride of ammonium solution.

1,426,891. PROCESS OF RECOVERING METALS FROM SILICATES. FRANCIS M. MCCLENAHAN, Oakmont, Pa. Filed Dec. 7, 1921. Serial No. 520,601. 9 Claims. (Cl. 23—22.)

5. The process of recovering hydrated oxide of aluminum from an intimate mixture of aluminum and ammonium fluorides, which comprises heating said mixture in the presence of water and simultaneously removing the resulting vapors.

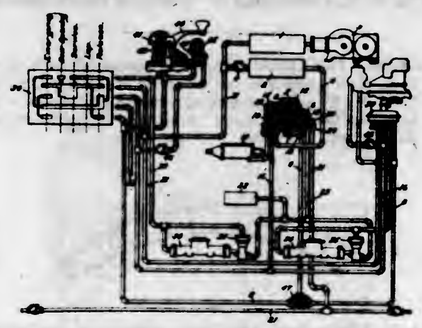
1,426,892. SEAM. FRED H. MCCOY, Burlington, Vt. Filed Aug. 30, 1920. Serial No. 406,743. 7 Claims. (Cl. 112—262.)



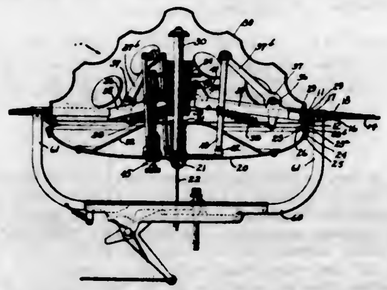
6. A method of seaming material in which there is a slit which consists in folding, interlocking and joining the edges of the slit and folding the unslit portion in substantial alignment with the slit to form a continuous seam.

1,426,893. SAFETY CAR CONTROL AND AIR-BRAKE EQUIPMENT. GEORGE MACLOSKIE, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Apr. 22, 1921. Serial No. 463,606. 12 Claims. (Cl. 303—6.)

1. In a safety car control and air brake equipment, the combination with a source of fluid pressure, a brake cylinder, an emergency valve, an emergency pipe and a straight air pipe, of a motorman's handle, and a pilot valve operated upon release of said handle for venting fluid from said emergency pipe to said straight air pipe to effect the operation of said emergency valve to establish communication between said source of fluid pressure and said brake cylinder.

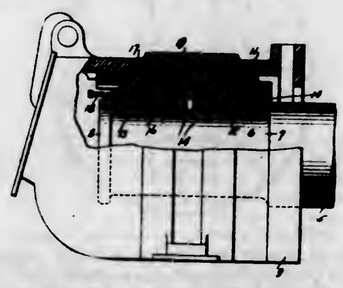


1,426,894. VALVE. ALGER G. MARANVILLE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 16, 1919. Serial No. 331,199. 22 Claims. (Cl. 244—31.)



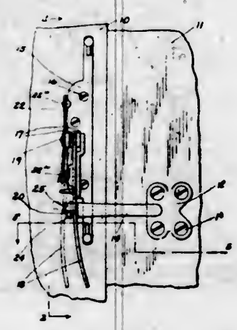
1. In a valve of the character described, the combination with a gas receptacle having an outlet, of an automatic valve in said outlet, comprising a flexible resilient gasket having two lipped sections, said lips serving as valve and valve seat respectively, pressed together by the gas pressure within said receptacle when the valve is closed and adapted to be separated by the variations in pressure difference between that of the atmosphere and that inside the receptacle.

1,426,895. CAR JOURNAL. ALBERT MELVILLE, Morrisville, Pa. Filed Sept. 15, 1921. Serial No. 500,894. 5 Claims. (Cl. 64—20.)



1. In a journal bearing in combination with an axle having a journal portion, a brass comprising two semi-cylindrical members maintained in spaced relation and in engagement with the ends of the journal portion of the axle, said brass members being free to move toward each other.

1,426,896. DOOR AND WINDOW LOCK. ROBERT F. A. MEYER, New York, N. Y. Filed Jan. 11, 1922. Serial No. 528,407. 3 Claims. (Cl. 70—14.)



2. A lock of the class described comprising an angular bracket secured to a door, an elongated knob formed on the end thereof, a plate member secured to the door sash and having ears formed thereon, a slotted locking plate pivoted between said ears, a spring stop urging the locking plate into engagement with said knob, said knob adapted to shoulder in the slot of the locking plate when partly open and means for disengaging the door bolt from the locking plate by closing the door.

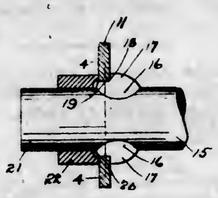
1,426,897. TIRE REPAIR. EDWARD M. MOORE and OWEN V. PEET, Indianapolis, Ind. Filed Jan. 9, 1922. Serial No. 528,071. 5 Claims. (Cl. 152—26.)



5. A tire casing repair comprising inner and outer plates adapted respectively to lie against the inner and outer faces of a tire casing and to envelop the inner and outer portions of a tire casing bead, and a fabric apron secured to the outer plate and adapted to be disposed in covering relation to the inner plate and in covering relation to a portion of the inner face of the tire casing.

1,426,898. BEAM AND REEL. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Oct. 8, 1920. Serial No. 415,586. 5 Claims. (Cl. 242—128.)

3. In a device of the character described, a pair of head-plates, a shaft passing through said plates and having an integral laterally-extending fin raised from the



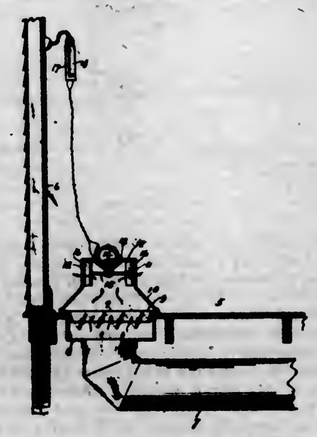
stock of the shaft engaging each plate providing a supporting shoulder therefor.

1,426,899. RADIOGRAPHIC PLATE CHANGER. ARTHUR MUTSCHELLER and KURT STOYE, New York, N. Y., assignors to Wappler Electric Company, Inc., a Corporation of New York. Filed Feb. 15, 1919. Serial No. 277,213. 20 Claims. (Cl. 250—34.)



1. In a device of the character described, a self-contained unit comprising a frame, a plurality of photographic trays carried by said frame and movable relatively to each other, and mechanism connected with said trays and controllable at the will of the operator for guiding each of said trays in succession into a single predetermined exact position.

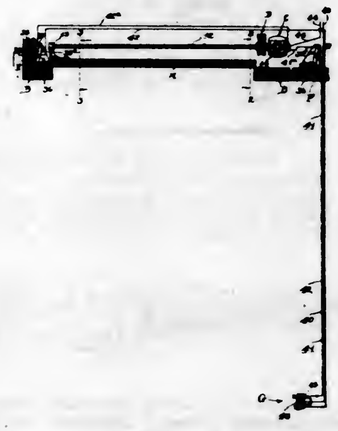
1,426,900. AUTOMATIC AIR CIRCULATOR FOR HEATING FURNACES. HARRY W. NEAL, Indianapolis, Ind., assignor of one-half to Hall-Neal Furnace Company, Indianapolis, Ind., a Corporation of Indiana. Filed Dec. 28, 1921. Serial No. 525,277. 2 Claims. (Cl. 126—110.)



1. In a hot-air heating system, the combination with a hot-air supply pipe and register, of a portable hood to cover the register, said hood having a top outlet, a horizontally rotating fan located at the outlet and having relatively small radial arms terminating with vertical

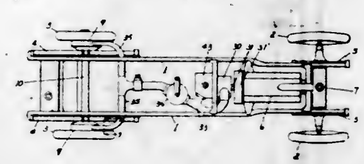
end vanes to insure minimum obstruction to the passage of air, and a top above the hood outlet having a funnel shaped member extending between the blades of the fan and directing the discharge of air between the cap and the hood.

1,426,901. DOOR OPENING AND CLOSING DEVICE. JOSEPH M. NELSON, Minneapolis, Minn. Filed Dec. 24, 1921. Serial No. 524,704. 7 Claims. (Cl. 268—9.)



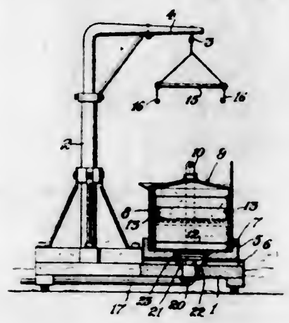
1. In a device of the class described, the combination with a door, of a threaded actuating rod connected at one end to said door, a motor having a hollow driving shaft freely receiving said actuating rod, and a nut threaded on the rod and rotated by said shaft to shift said rod longitudinally.

1,426,902. MOTOR-VEHICLE DRIVING MEANS. CELEST JOSEPH NOËL, Detroit, and KENNETH K. HICKS, Grand Rapids, Mich., assignors to Kirk E. Wicks, trustee, Grand Rapids, Mich. Filed Oct. 20, 1919. Serial No. 331,815. 9 Claims. (Cl. 180—66.)



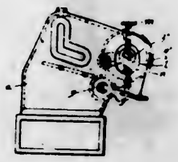
1. The combination with a running gear frame, an engine, an axle, and a pair of driving wheels, of a fluid driving motor connected directly to said engine, a pair of fluid driven motors mounted on said axle and comprising rotors having shafts on which said driving wheels are mounted, fluid connections for said driving and driven motors comprising a power and a return conduit each having branches connected to the inlets and discharges respectively of said driven motors, a control valve common to said power and return conduits and provided with passages and ports permitting the bypassing of a portion or all of the fluid from said power to said return conduit or the delivering of a portion or all of the fluid to said driven motors or the delivery of the fluid thereto in reverse direction for reversing the same, or cutting off the passage of the fluid through said driven motors providing a braking means, and a valved bypass connection for said power and return conduits disposed at the rear of said control valve and in front of their branch connections to said driven motors.

1,426,903. HARNESS OILER. RANDOLPH E. OGDEN, Rockville, Ind. Filed May 1, 1920. Serial No. 378,327. 1 Claim. (Cl. 91—46.)



In a harness oiler the combination of a basket comprising substantially cylindrical imperforate walls and perforate to form a bottom, rigid perforate ears upstanding above the top of the cylinder, a tank of appropriate depth to contain the basket with the ears upstanding, rigid perforate ears upstanding above the top of the tank, an outwardly flared flange at the top of te tank, a cover proportioned to set within the flange and close the tank with the basket therein, and a hoisting device provided with hooks proportioned to engage the perforations and a bar proportioned to hold the hooks spaced substantially equal to the spacing of the ears of the basket and tank.

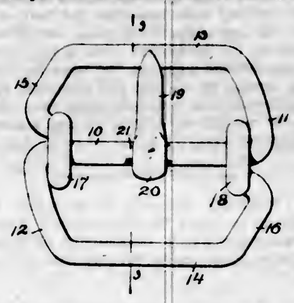
1,426,904. SHEET-FEEDING MECHANISM. ANDREW OLSON, Cleveland, Ohio, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 3, 1920. Serial No. 393,878. 4 Claims. (Cl. 271—36.)



1. The combination in a sheet-feeding mechanism, with paired feeding members; one of which is rotated for individually advancing the sheets, of an adjustable guard associated with the non-rotated member, and means for adjusting said guard to expose more or less of the operative face of said member and modify its action, substantially as set forth.

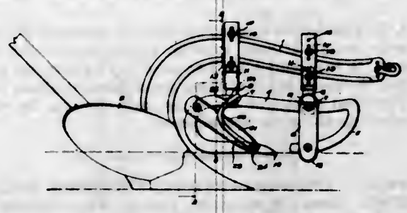
1,426,905. BUCKLE. CARL E. PETERSON, Bridgeport, Conn. Filed Jan. 4, 1922. Serial No. 526,898. 1 Claim. (Cl. 24—178.)

A buckle comprising a frame made from a single piece forming a central strand and forming loops of end stranda and top and bottom stranda, the two ends of the wire being looped around the central strand, the central strand having an off-set portion at the center, and at right angles to



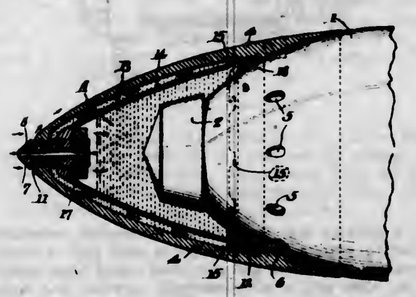
the plane of the buckle, and a tongue pivoted to the off-set portion of the central straud and adapted to engage one of the flanking strands.

1,426,906. SWEET-POTATO-VINE CUTTER. ARCHIBALD BRANTLEY PURDOM, Blackshear, Ga. Filed Nov. 18, 1920. Serial No. 424,919. 8 Claims. (Cl. 55—64.)



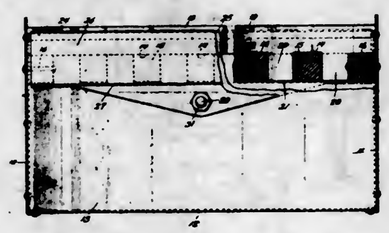
1. A cutting attachment for plows, comprising a frame, a plurality of cutters disposed on said frame, one of said cutters being disposed on a forward portion of said frame, the forward face of said frame having a sloping curvature to guide the material to be cut to the edge of the cutter blade.

1,426,907. PROJECTILE. GROSVOR RAMSEY, Brooklyn, N. Y. Filed Apr. 23, 1917. Serial No. 164,021. 12 Claims. (Cl. 102—23.)



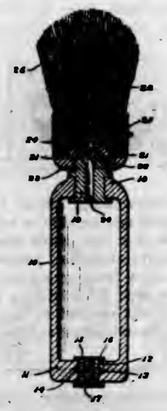
8. In a projectile, in combination, a body portion, a cap surrounding the nose of said body portion and forming a chamber, a bell-shaped partition member spaced apart from the inner side walls of said cap and dividing the said chamber into compartments, one of said compartments being operatively connected with an outlet opening adjacent the nose of the cap, the other of said compartments being operatively connected with an opening adapted to permit the introduction of air under pressure whereby the contents of said chamber may be discharged through said outlet opening when the projectile is in flight.

1,426,908. ADJUSTABLE STRAW CONVEYER. CLEMMA E. RANEY, Chicago, Ill., and REX B. HITCHCOCK, Hoosick Falls, N. Y., assignors to International Harvester Company, a Corporation of New Jersey. Filed Jan. 27, 1919. Serial No. 273,398. 4 Claims. (Cl. 130—26.)



2. In a straw walker, a casing having an end wall, said end wall having apertures therein, a plurality of longitudinal slats removably secured in said casing and disposed in alinement with the apertures of said end wall, and a clip for securing said longitudinal slats against removal.

1,426,909. APPLICATOR BRUSH. JOSEPH A. RAYDER, Philadelphia, Pa. Filed Dec. 6, 1921. Serial No. 520,293. 1 Claim. (Cl. 15—136.)

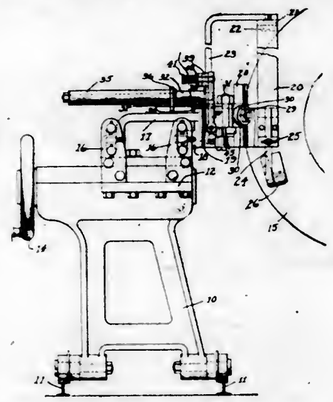


In combination, a shaving brush having a base portion provided with a semi-spherical recess and a longitudinal bore in communication therewith, said recess being partially screw threaded, a member having a semi-spherical head in screw threaded engagement with said recess and received therein, said member being provided with a longitudinal passage therethrough and radial passages communicating between the longitudinal passage and the recess and having two external annular flanges in spaced relation to provide an annular channel therebetween, and a resilient reservoir having one end open and adapted to snugly fit into said annular channel and having its opposite end provided with a filling opening.

1,426,910. BUFFER FOR TIRES. MARK A. REPLOGLE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 28, 1919. Serial No. 313,908. 18 Claims. (Cl. 82—1.)

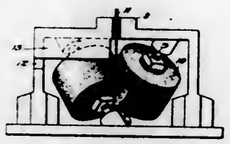
1. A tire buffing machine comprising, a base member, a carriage mounted thereon for movement toward or away

from the tire, a support movable transversely of the carriage and adapted to be positioned in proximity to the tire,



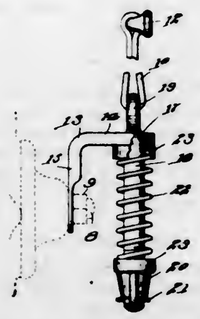
and buffer devices yieldably mounted upon the support and adapted to engage the tire periphery.

1,426,911. SHARPENING DEVICE. EDWARD E. ROGERS, New York, N. Y. Filed Feb. 21, 1922. Serial No. 538,322. 3 Claims. (Cl. 51—208.)



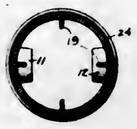
1. A grinding device including a base, a platform extending above and in spaced relationship to said base, said platform being formed with a slot, guide flanges formed adjacent to said slot, shafts extending between said platform and said base, said shafts being rotatably mounted and disposed at an angle to each other and to the said slot and base, and abrasive drums secured to said shafts and having their working faces extending substantially parallel to the same.

1,426,912. CONNECTING DEVICE FOR AUTOMOBILE TOPS. VIRGIL D. ROSS, Albemarle, N. C. Filed Mar. 21, 1922. Serial No. 545,573. 3 Claims. (Cl. 296—120.)



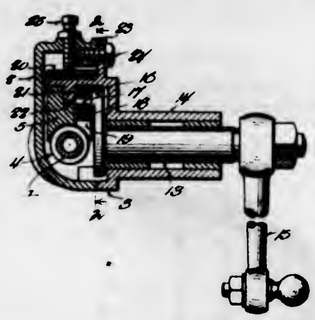
1. A device for connecting the wind shield post and top of an automobile, comprising an inverted approximately L-shaped bracket having substantially horizontal and vertical arms, said arms having openings formed therein, the opening in the vertical arm receiving the bolt of the wind shield post, an approximately vertical rod slidable within the opening in the horizontal arm, a nut having screw threaded engagement with the rod near its lower end, a coil spring carried by the rod and arranged between the nut and horizontal arm, a flexible strap connecting the upper end of the rod and automobile top, and means to adjust the length of the strap.

1,426,913. PISTON. WILLIAM H. SACKMAN, Pottstown, Pa., assignor to Light Manufacturing & Foundry Company, Pottstown, Pa., a Corporation of Pennsylvania. Filed Apr. 12, 1919. Serial No. 289,655. 5 Claims. (Cl. 74—108.)



1. In a piston for engines operated by explosive charges, a body portion of light material having an annular seat therein, in combination with an annular ring-carrying shell within the seat and interlocking spoke-like projections from a cylindrical surface of one of the parts entering the other at intervals about the circumference.

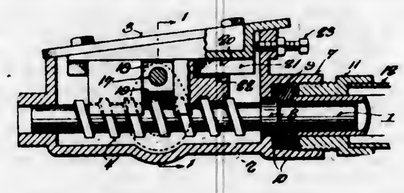
1,426,914. STEERING-POST TRANSMISSION MECHANISM. ERNST SCHMALLER, Racine, Wis., assignor to Paul B. Wohlrab, Racine, Wis. Filed Dec. 12, 1921. Serial No. 521,764. 5 Claims. (Cl. 74—79.)



1. A steering gear transmission mechanism comprising a steering post, a block slidable on said post, a casing surrounding said block and post, said casing being opened at one side, and a cover for said opening, said cover being adjustable with relation to the casing and serving as a guide for the block whereby wear between the block and steering post may be taken up.

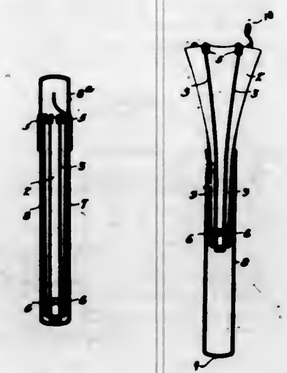
1,426,915. STEERING-POST TRANSMISSION MECHANISM. ERNST SCHMALLER, Racine, Wis., assignor to Paul B. Wohlrab, Racine, Wis. Filed Dec. 12, 1921. Serial No. 521,765. 2 Claims. (Cl. 74—79.)

1. A steering gear transmission mechanism comprising a steering post, a block slidable on said post, a casing surrounding said post and block, said casing being open at its top, and a cover for said opening, said cover serving as a guide for the block and being longitudinally



adjustable with relation to the casing on an angle to the axis of the steering post, whereby adjustment between the block and post is obtained.

1,426,916. COLLAPSIBLE DRINKING CUP. LOUIS SCHORPP, Philadelphia, Pa., assignor of one-half to Frederick A. Boekemann, Collingsdale, Pa. Filed Mar. 9, 1921. Serial No. 450,995. 3 Claims. (Cl. 65—58.)



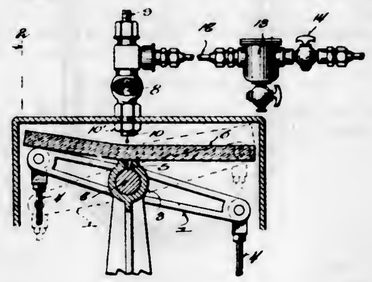
1. The combination of a cup of collapsible material, and a plurality of spring arms connected at the lower ends thereof and embracing the cup and normally holding it in open condition and permitting it to be collapsed under pressure, said arms having indentations in the lower portions thereof engaging the lower portion of the cup and holding it in place.

1,426,917. DOUBLE-SEAL FRICTION CAP. EDGAR SCOFIELD, New York, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed June 10, 1921. Serial No. 476,423. 21 Claims. (Cl. 215—39.)



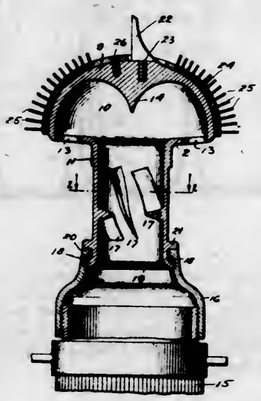
13. A closure cap comprising a cover portion, a skirt depending from said cover portion, a pair of sealing zones in said skirt, and constricting means between said sealing zones.

1,426,918. LUBRICATING DEVICE. LAMAR H. SHOVER, Milwaukee, Wis., assignor to Milwaukee Reliance Boiler Works, Milwaukee, Wis. Filed Mar. 14, 1922. Serial No. 543,547. 4 Claims. (Cl. 184—102.)



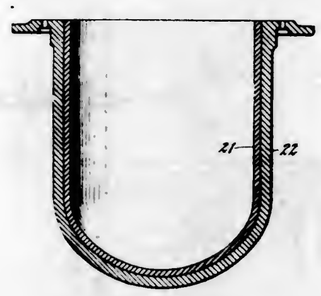
2. In combination with a mechanism consisting of a bearing provided with an oil hole, a shaft supported in said bearing, and an oscillating lever carried on said shaft; a pad supported by said mechanism and adapted to intermittently contact with said oscillating lever, and means positioned practically above said oil hole for supplying lubricant to the pad.

1,426,919. SELF-PROPELLING ROTARY CUTTER. SIDNEY C. SLADDEN, New York, N. Y. Filed Feb. 14, 1921. Serial No. 444,993. 5 Claims. (Cl. 137—70.)



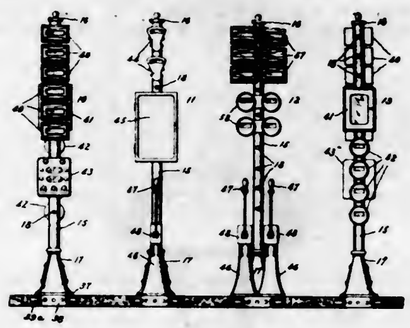
1. An apparatus as characterized comprising a prime mover having rearwardly disposed fluid delivery openings for moving the apparatus forwardly through a surrounding medium; means for supplying said apparatus with fluid under pressure; and means for rotating said apparatus on its axis, said means being actuated by the fluid delivered to said apparatus.

1,426,920. AUTOCLAVE. OLIVER S. SLEEPER, Buffalo, N. Y., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y., a Corporation of New York. Filed Dec. 17, 1917. Serial No. 207,518. 1 Claim. (Cl. 206—2.)



An autoclave comprising a shell of cast iron which is low in silicon and high in tensile strength, and an acid resisting lining which is arranged within said shell and which consists of cast iron high in silicon and low in tensile strength.

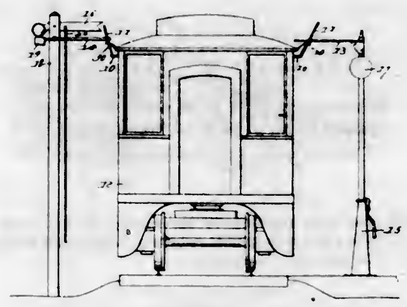
1,426,921. ELECTRICAL APPARATUS. ARTHUR R. SMITH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 6, 1919. Serial No. 295,247. 9 Claims. (Cl. 175—298.)



1. A switchboard structure comprising a tubular member, a hollow pedestal supporting said member, a terminal board within said pedestal, switchboard devices carried by said member, and conductors for said devices passing from said devices along the interior of said member to said terminal board.

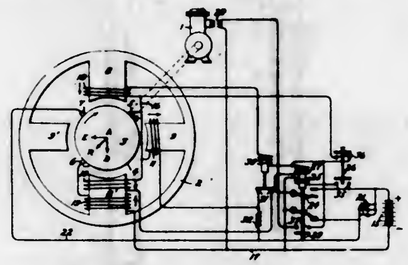
1,426,922. RAILROAD SAFETY APPLIANCE. WILLIAM THOMAS SPILLANE, Crookston, Minn. Filed July 15, 1921. Serial No. 484,893. 2 Claims. (Cl. 246—200.)

1. A railway safety appliance comprising car body carried operating arms mounted for swinging movement in planes parallel with the path of the car and adapted for contact with and to be operated by a roadside trip, a crank shaft at the extremities of which said arms are carried, a connecting rod connected to the crank of said crank shaft and having an offset providing oppositely inclined cam faces, a spring arm having transverse bearing engagement with the offset for yieldingly holding the connecting rod and crank shaft with the operating arms



in their normal position, and operative connections between said connecting rod and the air brake mechanism for effecting a reduction of train pipe pressure.

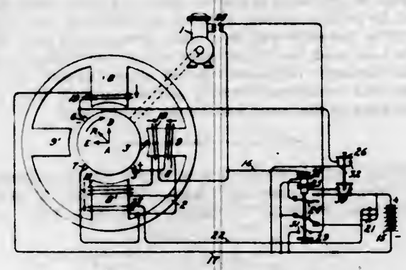
1,426,923. ELECTRICAL SYSTEM. ROBERT STECK, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Oct. 26, 1920. Serial No. 419,687. 17 Claims. (Cl. 171—223.)



1. An electrical system comprising an inherently regulated self-excited dynamo electric machine having an n pole armature winding and a field structure comprising $2n$ mechanical field poles arranged in two sets with an equal number of poles in each set, certain adjacent poles of the separate sets being arranged to be of like polarity, at least three brushes cooperating with said armature, two of said brushes being spaced substantially 180 electrical degrees apart and arranged with respect to said poles so that the voltage between said brushes is dependent on the flux in both of said sets of poles, the third brush being arranged with respect to said poles so that the voltage between said third brush and one of said 180 degree brushes is dependent on the flux in one only of said sets of poles, a translation circuit connected to said 180 degree brushes, a second translation circuit connected to be supplied at the voltage induced by one of said sets of poles only, an exciting winding for the set of poles last mentioned connected across said second translation circuit, the machine being constructed and arranged so that the current flowing in the armature winding between said 180 degree brushes produces in the set of poles last mentioned a magnetomotive force in the same direction as the magnetomotive force of said exciting winding.

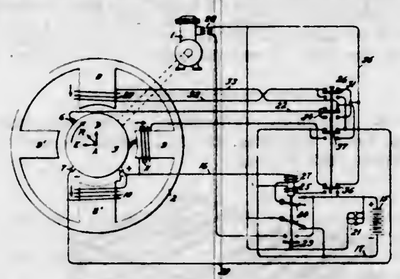
1,426,924. ELECTRICAL SYSTEM. ROBERT STECK, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Oct. 26, 1920. Serial No. 419,688. 5 Claims. (Cl. 171—223.)

1. An electrical system comprising an inherently regulated self-excited dynamo electric machine having an n pole armature winding and a field structure comprising $2n$ mechanical field poles arranged in two sets with an equal number of poles in each set, certain adjacent poles of the separate sets being arranged to be of like polarity, at least three brushes cooperating with said armature, two of said brushes being spaced substantially 180 electrical degrees apart and arranged with respect to said poles so that the voltage between said brushes is dependent on the flux in both of said sets of poles, the third brush being arranged with respect to said poles so that the voltage between said third brush and one of said 180 degree brushes is dependent on the flux in one only of said sets of poles, an exciting winding for the set of poles last mentioned, a translation circuit connected to be supplied



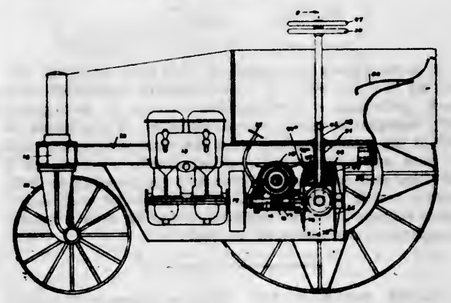
at the voltage induced by said last mentioned set of poles, a second translation circuit connected to said 180 degree brushes, an exciting winding for the other set of poles, the machine being constructed and arranged so that the cross-magnetizing magnetomotive force due to the load current in said second translation circuit produces in the set of poles inducing the voltage supplied to said first mentioned translation circuit a magnetomotive force in opposition to magnetomotive force of the first mentioned exciting winding, and a winding connected in series with said second translation circuit and arranged to produce in said last mentioned set of poles a magnetomotive force in opposition to the magnetomotive force produced therein by the cross-magnetization.

1,426,925. ELECTRICAL SYSTEM. ROBERT STECK, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Oct. 26, 1920. Serial No. 419,689. 8 Claims. (Cl. 171—223.)



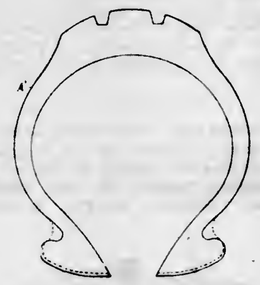
1. An electrical system comprising an inherently regulated self-excited dynamo electric machine having an n pole armature winding, and a field structure comprising $2n$ mechanical field poles arranged in two sets with an equal number of poles in each set, certain adjacent poles of the separate sets being arranged to be of like polarity, at least three brushes cooperating with said armature, two of said brushes being spaced substantially 180 electrical degrees apart and arranged with respect to said poles so that the voltage between said brushes is dependent on the flux in both of said set of poles, the third brush being arranged with respect to said poles so that the voltage between said third brush and one of said 180 degree brushes is dependent on the flux in one only of said sets of poles, a plurality of translation circuits connected to said brushes, one of said translation circuits being connected across said 180 degree brushes, another of said translation circuits being connected to be supplied at the voltage induced by one of said sets of poles only, a winding connected across one pair of said brushes and arranged to excite one of said sets of poles only, and a winding connected across another pair of said brushes and arranged to excite the other of said sets of poles only.

1,426,926. SPEED-CHANGING DEVICE. RICHARD STRNSAU, Quogue, N. Y. Filed May 16, 1918. Serial No. 234,907. 8 Claims. (Cl. 180—17.)



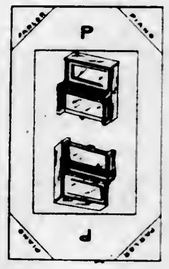
1. The combination of a driving means, a gear driven thereby, a planetary gear meshing with and driven by said first mentioned gear, a shaft rigidly secured to and driven by said planetary gear, a third gear meshing with said planetary gear, and means driving said last mentioned gear and varying the speed thereof with respect to said driving means to vary the speed of said shaft with respect to said first mentioned driving means, said last mentioned means including a variable speed frictional driving device for driving said last mentioned gear.

1,426,927. METHOD OF MAKING VEHICLE TIRES. JAMES A. SWINEHART, Akron, Ohio. Filed Nov. 6, 1920. Serial No. 422,164. 4 Claims. (Cl. 18—56.)



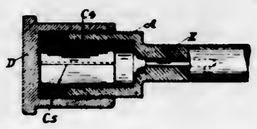
1. A method of making tires, comprising the step of molding a built-up tire casing while cold to approximately its finished contour and dimensions and with a partly developed bead, and then molding and compressing and stretching the casing to a slightly greater degree while heating and vulcanizing the same and forming a finished bead.

1,426,928. CARD GAME. JOHN H. TIENCKEN, Charleston, S. C. Filed Nov. 13, 1920. Serial No. 423,784. 1 Claim. (Cl. 46—25.)



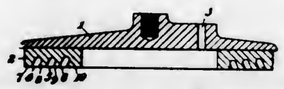
A game apparatus consisting of a pack of cards consisting of a plurality of distinguishably designated suits each containing a corresponding number of distinguishably designated cards, and a plurality of key cards of which the number is less than the number of suits, each of said suits representing an apartment or room of a dwelling and each card of each suit representing an individual article of furniture and equipment of such apartment or room, the key cards representing each a human occupant of the apartment or room.

1,426,929. GREASE CUP. CHARLES FREDERIC VAUGHAN, London, England. Filed Aug. 25, 1921. Serial No. 495,207. 1 Claim. (Cl. 184—38.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



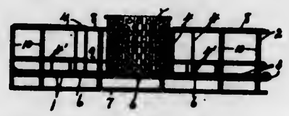
In a grease cup the combination of a cup-shaped body part having a cylindrical recess, a discharge conduit at the base of said recess, an interiorly threaded cap adapted to engage the threaded outer surface of the said body part, and a cylindrical flange attached to the said cap, and arranged to extend into the said recess closely fitted against the walls thereof, the said flange being of the same length as the said cap, and being longitudinally divided, the edges of the divided flange overlapping each other.

1,426,930. PNEUMATIC LOAD-ENGAGING MEANS. FREDERIC BARNES WALDRON, Prescot, England, assignor to Pilkington Brothers Limited, St. Helens, England, a Limited Liability Company of Great Britain. Filed Oct. 6, 1920. Serial No. 415,122. 8 Claims. (Cl. 294—64.)



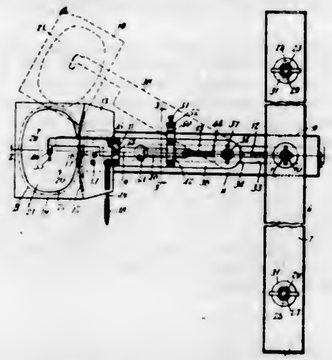
1. A sucker ring for pneumatic load-engaging means having its operative face channelled, the inner wall of a channel being inclined inwards and upwards from the said operative face.

1,426,931. CULINARY BASKET FOR DISHWASHING MACHINES. WILLARD R. WALKER, Syracuse, N. Y., assignor to The Walker Brothers Company, Syracuse, N. Y., a Corporation of New York. Filed Aug. 27, 1920. Serial No. 406,305. 4 Claims. (Cl. 141—9.)



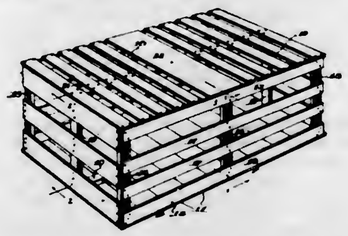
1. A culinary basket comprising an outer upright circular wall of open work having its lower and upper edges disposed in parallel planes, an open work bottom wall supported by the outer wall in a plane between and some distance from said lower and upper edges, and upright partitions arranged in spaced relation about the axis of the basket and extending inwardlly and downwardly from the upper edge of the outer wall to the bottom wall.

1,426,932. ATTACHMENT FOR BAND SAWS. GEORGE H. WALLACE, Cambridge, Mass. Filed May 7, 1920. Serial No. 379,512. 15 Claims. (Cl. 143—171.)



1. An attachment for band saw machines having, in combination, a guide frame provided with a slot for a band saw, means to fasten said guide frame to the work table of said band saw machine, a guide plate for a piece of material on said guide frame, and means to yieldingly position the piece of material relatively to said guide plate.

1,426,933. CHICKEN COOP. NEIL ACE WEBSTER, Waucoma, Iowa. Filed Aug. 31, 1921. Serial No. 497,117. 2 Claims. (Cl. 217—43.)



1. A light, rigid, return coop comprising a plurality of pre-constructed sections adapted to be initially shipped in knock-down form and readily assembled into a completed permanent light rigid structure, said sections including a bottom section provided with a central rib, side sections provided with top and bottom supporting rails, end and central posts secured to said rails, and comparatively thin slats secured to said posts, end sections consisting of end posts and thin slats rigidly secured thereto and a top section of comparatively thin slats provided with a central rib, to which the slats are rigidly secured, and when assembled said end and top sections being secured respectively to said side posts and top rails and a readily removable closure in the top section substantially as and for the purpose set forth.

1,426,934. TIMING AND INJECTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. WILLIAM B. SMITH WHALEY, New York, N. Y., assignor to American Whaley Engine Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Dec. 21, 1916, Serial No. 138,207. Divided and this application filed Oct. 1, 1917. Serial No. 194,103. Renewed Jan. 3, 1922. Serial No. 526,812. 4 Claims. (Cl. 60—16.)



1. In a device of the character described, a casing member having a receiving chamber, a discharging chamber and a transfer chamber communicating between said chambers; a ported sleeve-member fitted within said receiving chamber and porting said receiving chamber with said transfer chamber; a reciprocating valve member slidably fitted in said ported sleeve member and adapted to periodically free the ports of said sleeve member; means for supplying said receiving chamber with elastic-fluid; a protruding discharging sleeve-member fitted within said discharging chamber and adapted to extend through a cylinder wall and open to said transfer chamber and the combustion chamber of said cylinder; and means for normally closing the cylinder end of said discharge sleeve.

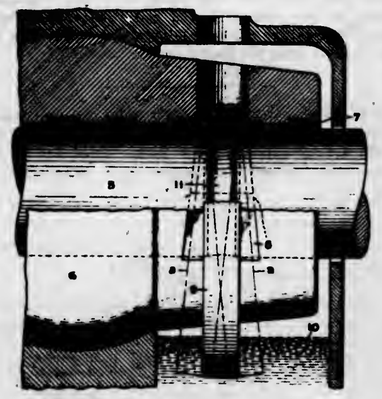
1,426,935. TOOTH PROTECTOR FOR DENTAL CLASPS. GEORGE A. WIECHERT, New York, N. Y. Filed Jan. 18, 1922. Serial No. 530,204. 4 Claims. (Cl. 32—12.)



2. In a device of the character described the combination of a denture and a clasp carried by said denture and provided with a clasp finger adapted to be bent in order to exert pressure upon a natural tooth, and a tooth protector carried by said clasp finger and engaging said tooth, said tooth protector being made of resilient material and so fitted upon the clasp finger as to practically envelop the same.

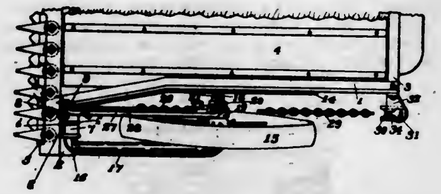
1,426,936. SHAFT BEARING. JAMES WILKINSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 9, 1920. Serial No. 402,265. 1 Claim. (Cl. 64—31.)

The combination of a shaft provided with a rounded annular groove formed directly in its surface, a bearing therefor having a flared oil ring groove, and an oil ring having a rounded inner wall hung in the groove in the shaft and located in said flared groove whereby such oil



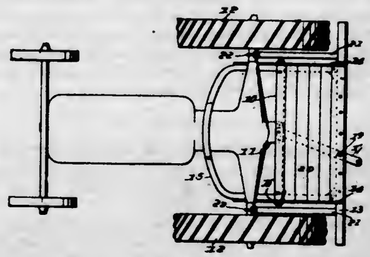
ring is held from axial movement along the shaft but may swing on the shaft without coming into engagement with the walls of said flared groove.

1,426,937. GRAIN WHEEL FOR HARVESTERS. FREDERICK D. WILSON, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed July 19, 1920. Serial No. 397,470. 7 Claims. (Cl. 56—214.)



2. In a device of the character described, the combination of a frame, a crank axle rockably supported thereon, a wheel on the crank axle, an eccentric non-rotatable bushing mounted on the axle and within the hub of said wheel whereby the wheel is given a constant downward pitch and forward gather, means to rock the axle and raise or lower the frame, and means to retain the pitch and gather of the wheel constant irrespective of the movement of the frame.

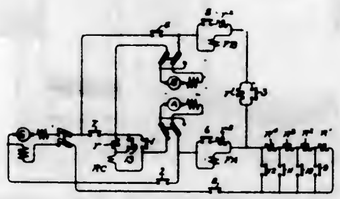
1,426,938. PLATFORM FOR TRACTORS. JAMES W. WRIGHT, Iowa, La. Filed Oct. 12, 1920. Serial No. 416,353. 1 Claim. (Cl. 280—33.2.)



An attachment for tractors, having front and rear cross bars of which the former is attached to the tractor draw

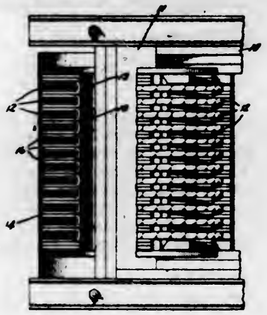
bar, and of which the latter is disposed in terminal overlapping relation with the tractor wheels, side bars connecting said front and rear cross bars and extending in advance of the former, and a rod yoke connecting the forward extremities of the side bars and disposed in spanning relation with the frame of the tractor.

1,426,939. MOTOR CONTROL. JOHN D. WRIGHT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 2, 1919. Serial No. 269,380. 9 Claims. (Cl. 172—152.)



2. The combination with a hoist or the like, of a pair of reversible series driving motors connected in a closed loop during operation in both directions and a reversing controller for connecting the fields to the supply circuit independently of the armatures during lowering.

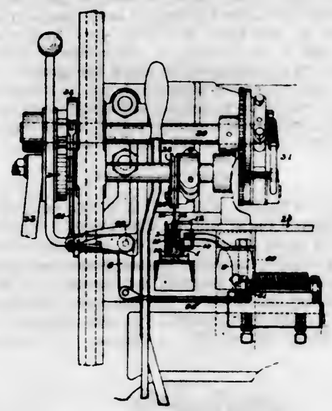
1,426,940. ELECTRICAL APPARATUS. LOUIS WULFF, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 13, 1920. Serial No. 416,668. 5 Claims. (Cl. 175—356.)



1. In an electrical apparatus, the combination with windings composed of coils in assembled relation, of spacing means for the windings comprising radially disposed elements, fillers and a channel member, said channel member engaging said elements to secure them against lateral displacement and to hold them in alignment.

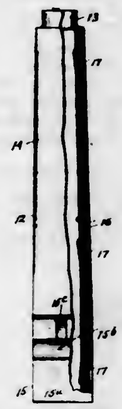
1,426,941. APPARATUS FOR THE MANUFACTURE OF WIREBOUND BOX BLANKS. WILLIAM G. ZIMMERMAN, Everett, Wash. Filed Oct. 2, 1918. Serial No. 256,537. 2 Claims. (Cl. 1—8.2.)

1. An automatic staple-feed controlling attachment for machines of the class described, comprising tappet plates adapted to be secured to the conveyor chain, a base plate adapted to be secured to the machine frame, a lever pivoted upon said base plate and having one end positioned to be engaged by said tappet plates, a spring secured to said base plate and to said lever to swing the



lever into engagement with the tappet plates, and a link secured to said lever and connecting it with the staple controlling mechanism.

1,426,942. TUBULAR SHEET-METAL SPOKE FOR VEHICLE WHEELS. THOMAS N. AIKENS, Lakewood, Ohio, assignor of one-half to David D. Walker, Lakewood, Ohio. Filed Dec. 9, 1921. Serial No. 521,143. 6 Claims. (Cl. 301—104.)

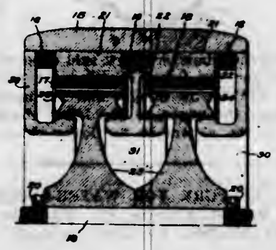


1. A tubular sheet metal spoke for vehicle wheels formed from a piece of sheet metal with one of its marginal portions overlapping the other, and the overlapping portions being indented to prevent spreading.

1,426,943. HIGH-FREQUENCY ALTERNATOR. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 23, 1916. Serial No. 121,870. 11 Claims. (Cl. 171—252.)

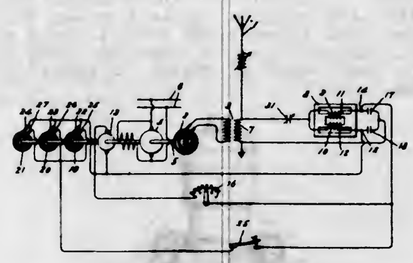
7. A high frequency alternator comprising a rotatable magnetic inductor terminating at its outer periphery in a cylindrical surface and adapted to be driven at high

speed, said cylindrical surface having a plurality of distributed slots, non-magnetic material filling said slots, a stationary magnetic core surrounding the cylindrical surface of said inductor and separated therefrom by a small air gap, an armature winding carried by said core, a second cylindrical surface on said inductor concentric with the outer periphery of the inductor, a stationary magnetic member separated from the second cylindrical surface of said inductor by a small air gap, and an exciting winding positioned so that the flux set up thereby crosses said two air gaps in relatively opposite directions.



9. A high frequency alternator comprising a rotatable magnetic inductor having three concentrically positioned cylindrical surfaces, one of said cylindrical surfaces having a plurality of distributed slots, non-magnetic material filling said slots, a stationary magnetic core separated from said slotted cylindrical surface by a small air gap, an armature winding carried by said core, a pair of stationary magnetic members separated from the other cylindrical surfaces by a small air gap, and a magnetizing winding positioned so that the flux set up thereby passes across both of said air gaps.

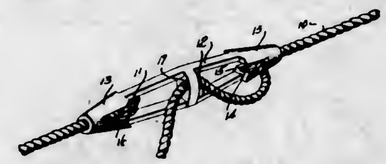
1,426,944. RADIOSIGNALING SYSTEM. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 4, 1917. Serial No. 189,495. 4 Claims. (Cl. 250—8.)



1. The method of radio signaling which consists in producing a continuous radio frequency current in a radiating system, transmitting a single signal by simultaneously producing amplitude pulsations of sine wave form of a plurality of different frequencies, all of which are below radio frequency, receiving the wave thus transmitted and producing an indication of the signal transmitted by selecting from the wave thus received any desired one of the different frequencies of amplitude pulsations.

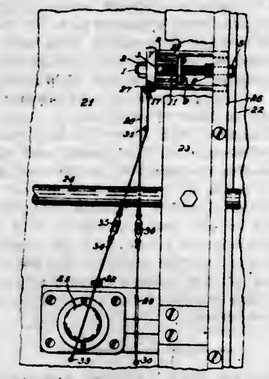
1,426,945. SECURING DEVICE. FRANK CARLTON ANDERSON, Portland, Me. Filed Dec. 13, 1921. Serial No. 522,098. 2 Claims. (Cl. 24—130.)

1. A securing device including a pair of arms, heads secured adjacent the ends of said arms, said heads being each formed with a bore and a wedge-shaped slot adjacent the inner end of said bore, and an inclined shoul-



der forming a part of said head, and also adjacent the inner end of said bore, said shoulder also being interrupted by said slot.

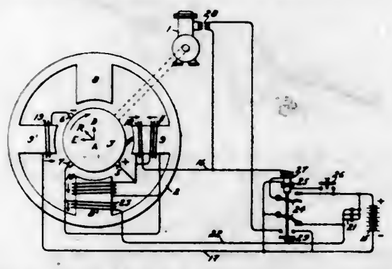
1,426,946. AUXILIARY LOCKING MEANS FOR VAULTS. CHARLES W. BABCOCK, Waterloo, Iowa. Filed Jan. 20, 1922. Serial No. 530,577. 6 Claims. (Cl. 109—3.)



1. The combination with a door having a fixed orificed marginal rib, a shifting-bar movable to and from said rib, a locking-bolt carried by said bar, and a lock adapted to releasably secure said bar and bolt in certain positions, of auxiliary-locking-means, comprising a headless-bolt threaded at both ends with one end secured in a threaded orifice in said rib, a nut mounted on the inner end of the bolt, said bolt having a cylindrical enlargement spaced from the inner end of the bolt, a cross-bar positioned partially in the plane of said shifting-bar and orificed to seat it slidably upon the enlargement of said bolt, one or more rings having the same exterior diameter as said enlargement and a larger interior diameter than said bolt mounted loosely on the bolt between said enlargement and said nut, an orificed cross-bar slidably seated on said bolt and rigidly bracketed on the first-mentioned cross-bar, a coiled spring mounted on said bolt and engaged between said enlargement of the bolt and the second-mentioned cross-bar, an adjusting-nut on said bolt engaging the opposite face of the second-mentioned cross-bar, releasable engaging-means on the first-mentioned cross-bar, a wire having one end connected to said releasable engaging-means when the first-mentioned cross-bar has been moved to be mounted upon said rings, thence crossing the said lock contacting and having its other end secured to the door near the lock, and another wire releasably linked to said releasable engaging-means, carried thence across a vulnerable part of the door between said lock and said shifting-bar, having its other end secured to the door, and including a part of low melting point overlying said vulnerable part of the door.

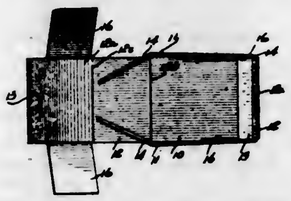
1,426,947. ELECTRICAL SYSTEM. SVEN R. BERGMAN, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 26, 1920. Serial No. 419,697. 10 Claims. (Cl. 171—223.)

1. An electrical system comprising an inherently regu-



lated self-excited dynamo electric machine having an n pole armature winding, and a field structure comprising 2n mechanical field poles arranged in two sets with an equal number of poles in each set, certain adjacent poles of the separate sets being arranged to be of like polarity, at least three brushes cooperating with said armature, two of said brushes being spaced substantially 180 electrical degrees apart and arranged with respect to said poles so that the voltage between said brushes is dependent on the flux in both of said sets of poles, the third brush being arranged with respect to said poles so that the voltage between said third brush and one of said 180 degree brushes is dependent on the flux in one only of said sets of poles, an exciting winding for the set of poles last mentioned and a plurality of translation circuits connected to said brushes, one of said translation circuits being connected across said 180 degree brushes, another of said translation circuit being connected to be supplied at the voltage induced by said one set of poles only, said exciting winding being connected across one of said translation circuits.

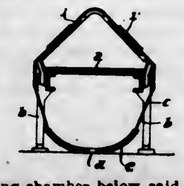
1,426,948. PAPER BOX. SAMUEL BERGSTEIN, Middletown, Ohio. Filed Nov. 17, 1921. Serial No. 515,804. 1 Claim. (Cl. 229—34.)



A box of the class described having side and end panels, these side panels being scored transversely to form flaps adapted to cover and reinforce the entire surface of the end walls of the box, the end panels being also scored transversely to provide flaps adapted to lie on the bottom of the box, each of said last-mentioned panels being also provided with side flaps adapted to cover and reinforce substantially the entire surface of the side walls of the box.

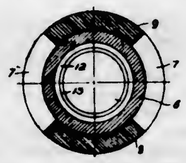
1,426,949. DEVICE FOR RECOVERING RUBBER SOLVENTS. ALBERT BOECLER, Malmo, Sweden. Filed June 20, 1921. Serial No. 479,115. 2 Claims. Cl. 34—3.)

1. A device for the recovery of solvent from rubber mixtures used in the production of materials made partly or wholly of rubber, the combination with a rubber machine having a support over which the product is passed while the solvent is evaporating through the application of heat thereto, of a casing completely enclosing and surrounding said support and forming a vapor evolving or expansion chamber above said support and a larger,



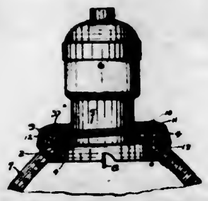
vapor condensing chamber below said support and cooling means only for the lower chamber for the purpose of condensing the vapors therein and for maintaining circulation from the upper to the lower chamber by condensation of the vapors in the lower chamber.

1,426,950. FIXTURE FOR WATER-CLOSET BOWLS. LEE W. BOLLOW, Chicago, Ill. Filed Apr. 22, 1920. Serial No. 375,695. 5 Claims. (Cl. 137—76.)



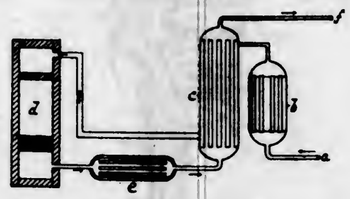
1. A water closet bowl having a hole in a wall there of to give access to the interior through said wall, a sleeve fixed in said hole, said sleeve having at its inner end an outwardly-facing seat, a closure for the outer end of said sleeve, means for detachably securing said closure in place, and a stopper supported by said closure and engaging said seat.

1,426,951. SHADE HOLDER FOR THREADED ELECTRIC-LAMP SOCKETS. GEORGE A. BOOMER, Waterbury, Conn., assignor to The Plume & Atwood Mfg. Co., Waterbury, Conn., a Corporation. Filed Feb. 16, 1920. Serial No. 359,149. 2 Claims. (Cl. 240—11.)



1. In a shade-holder for use with threaded lamp-sockets, the combination with an inside shade-supporting member adapted to fit on the inside of a lamp-shade, and comprising an outwardly flaring shade-supporting flange, an upstanding threaded collar adapted to be screwed upon the threaded end of a lamp-socket, and an inwardly projecting positioning-member interposed between the said flange and collar for direct engagement with the lower turn of the threads upon the lamp-socket, of a shade-binding member comprising a threaded collar adapted to be screwed upon the outside of the upstanding threaded collar of the said shade-supporting member and provided with means for engaging the outer surface of the shade.

1,426,952. PROCESS FOR THE PRODUCTION OF OXIDES OF NITROGEN FROM AMMONIA BY CATALYTIC OXIDATION. CARL BOSCH, Ludwigshafen-on-the Rhine, Germany, assignor, by mesne assignments, to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany, a Corporation of the Grand Duchy of Baden. Filed July 9, 1920. Serial No. 395,148. 4 Claims. (Cl. 23—1.)

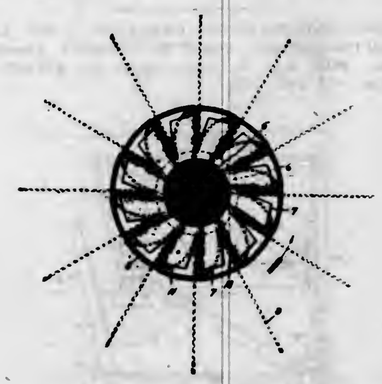


1. In the manufacture of oxides of nitrogen from ammonia by catalytic oxidation, the steps consisting in first preheating the gas mixture containing ammonia and oxygen with the aid of the drawn-off reaction gases and completing its heating on the way to the contact-mass by arranging a spacious room in front of the contact-mass enabling the gas mixture to be exposed to the heat radiated from the said contact-mass on a way of not less than about half a metre, the gas mixture coming in this room into contact only with materials which have no essential catalytic influence on it.

1,426,953. MANUFACTURE OF ARTIFICIAL SILK. EMILE BRONNERT, Mulhausen, France. Filed Sept. 10, 1920. Serial No. 409,440. 3 Claims. (Cl. 18—54.)

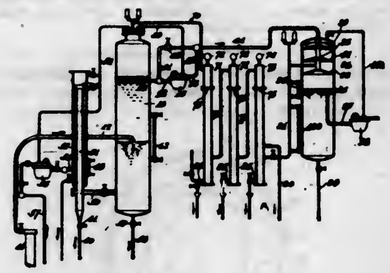
1. The process of producing very fine viscose threads of 6—1 deniers fineness or less, which comprises forcing the viscose into a precipitant bath consisting of an acid to which a polyatomic alcohol has been added, the concentration of the acid being proportional to the fineness of the thread desired, so that the concentration is increased in accordance with the fineness of the thread to be produced.

1,426,954. IMPELLER FOR CENTRIFUGAL COMPRESSORS AND THE LIKE. ALFRED A. BROOKS, Swampscott, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 2, 1920. Serial No. 407,675. 5 Claims. (Cl. 230—11.)



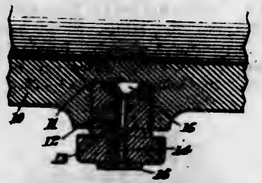
1. In a centrifugal compressor, the combination of a shaft, a hub thereon, thin, flexible blades carried by said hub, and entrance vanes for directing fluid to be pumped to said blades.

1,426,955. OIL, GAS, AND WATER SEPARATOR. LESTER L. CARTER, San Francisco, Calif. Filed Nov. 7, 1921. Serial No. 513,480. 11 Claims. (Cl. 183—3.)



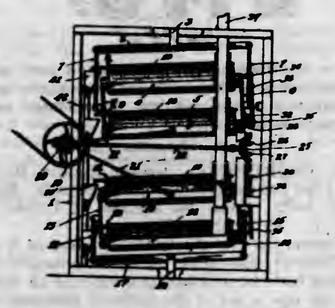
1. A device for separating gas from a mixture of gas and liquid, which comprises: walls forming a separating chamber, into which the mixture is delivered, and in which the gas is allowed to escape from the liquid; means for withdrawing gas from said chamber and reducing the pressure thereof; a trap into which liquid from said chamber is delivered; means in said trap for preventing gas from blowing therethrough; and means for allowing liquid to escape from said gas trap whenever a definite amount collects therein.

1,426,956. ACID LINE FOR PAPER MILLS. JOHN J. CARR, Saratoga Springs, N. Y., assignor to Baker Manufacturing Corporation, Saratoga Springs, N. Y., a Corporation of New York. Filed Oct. 8, 1920. Serial No. 415,626. 5 Claims. (Cl. 137—77.)



1. In a pipe line, a wall having an opening therein extending partially through the same from the outer side thereof, and a plug fitting said opening and having a longitudinal bore so that when the inner portion of the wall is worn away to the plug the fluid in the line is permitted to flow through the bore to indicate the condition of the line.

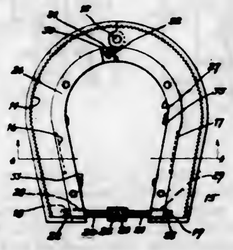
1,426,957. APPARATUS FOR SEPARATING SEEDS. CARL J. CHINDBLOOM, Peoria, Ill., assignor to American Milling Co., Peoria, Ill., a Corporation of New Jersey. Filed Oct. 13, 1919. Serial No. 330,457. 5 Claims. (Cl. 130—18.)



1. A separator comprising an endless belt or apron, a roughened conveyer surface thereon comprising a coating

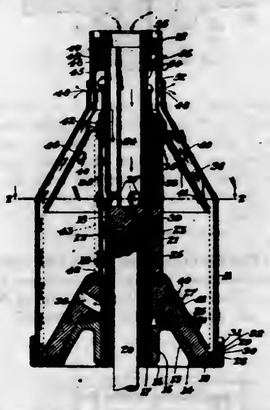
of added granular material and a slope lateral to its direction of movement, means for moving said belt or apron, means to supply a mixture of seeds to be separated to the upper rearward portion of said belt or apron, and means to impart a lateral vibratory motion to said belt or apron during movement.

1,426,958. HORSESHOE. JOSEPH CISEK, Fabyan, Conn. Filed Aug. 26, 1921. Serial No. 495,630. 1 Claim. (Cl. 168—19.)



A horseshoe comprising inner and outer members formed in sections, means for hingedly engaging the sections at the front of the shoe raised frame elements integral with the outer members, the interior of said frame elements being beveled to engage a hoof, projections on the inner beveled sides of said raised elements, spurs fixed in said inner members, bars pivoted in said outer members, said bars respectively being provided with left and right hand threads, and a nut for engaging said bars whereby said members may be clamped to a hoof.

1,426,959. CENTRIFUGAL LIQUID SEPARATOR. THOMAS COLLINS, Bainbridge, N. Y., assignor to The American Separator Company, Bainbridge, N. Y., a Corporation of New York. Filed Feb. 6, 1922. Serial No. 534,427. 20 Claims. (Cl. 233—29.)



10. In a centrifugal liquid separator, a bowl shell, a feed device, a distributing device, and means for securing the distributing device in its longitudinal position through the said bowl shell.

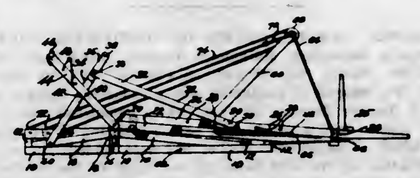
1,426,960. COMMUTATOR. GEORGE E. COOK, Brooklyn, N. Y. Filed June 3, 1920, Serial No. 386,345. Renewed Feb. 25, 1922. Serial No. 539,289. 2 Claims. (Cl. 200—25.)

1. A commutator for the ignition system of a multi-cylinder internal combustion engine comprising a casing of insulated material and having a rim and an end wall adjacent the rim, a set of rim contacts embedded in the said casing rim, a set of end wall contacts embedded in the said casing end wall, leads embedded in spaced relation in the said casing and connected at their inner ends with the said contacts, conductors connected with



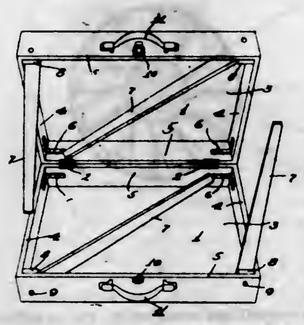
the outer ends of the said leads, and a revoluble member mounted to turn and provided with two contact members, of which one is adapted to engage the said rim contacts and the other the said end wall contacts.

1,426,961. HAYSTACKER. JOSEPH H. COPE, Denver, Colo., assignor to The Windsor Manufacturing Company, Windsor, Colo., a Corporation of Colorado. Filed Feb. 27, 1920. Serial No. 361,833. 42 Claims. (Cl. 214—141.)



26. In a stacker, a frame including a ground timber, a post secured at the side of said timber, a lifting arm lying directly above said timber and pivoted to said post, an extension arm slidable on said lifting arm, means to lift said arms, means to extend said extension arm while the arms are being lifted, said extending means comprising a jointed link having one part pivoted to the extension arm and another part pivoted to the frame, and a stop for limiting the rearward movement of said link.

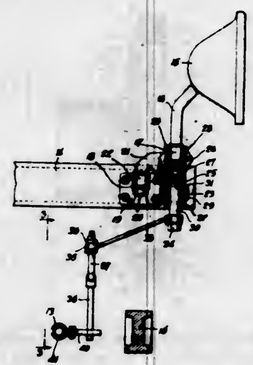
1,426,962. COMBINATION CARRYING CASE AND CAMPING TABLE. ROMAN M. CORPSTEIN, Dubuque, Iowa. Filed May 31, 1921. Serial No. 473,567. 1 Claim. (Cl. 190—12.)



A camping-out table comprising a pair of box-like sections hinged together and supporting legs pivoted to the

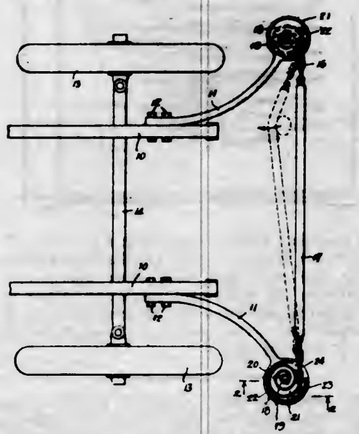
outer walls of said sections the pivots of the legs in each section lying in the same vertical plane and being staggered with respect to a horizontal plane whereby one leg of each section may be folded in superimposed relation upon the other leg in each section.

1,426,963. DIRIGIBLE HEADLIGHT. GEORGE W. J. CRABB, Newark, N. J. Filed Sept. 24, 1920. Serial No. 412,476. 1 Claim. (Cl. 240—62.)



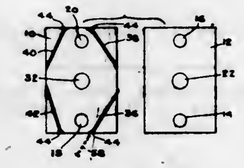
In a dirigible lamp construction, the combination with a frame, a bracket fixed thereto and having a socket bore, a lamp having a shank of the same diameter as said socket bore and having a threaded end and a clamping nut mating said threaded end, of an auxiliary bearing bracket having a shank similar in diameter to the lamp shank and hence adapted for direct co-operation with the bracket first mentioned and to be locked by said nut, a combined coupling and bearing bushing having a socket to receive the lamp shank and having a threaded portion to receive the threaded end of the lamp shank, a shank extension threaded into the other end of the coupling in alignment with the lamp shank, and means to rotate the lamp through said extension.

1,426,964. RESILIENT BUMPER. GEORGE W. J. CRABB, East Orange, N. J. Filed Apr. 17, 1922. Serial No. 553,736. 4 Claims. (Cl. 293—55.)



2. In an automobile bumper, the combination of a spring, an impact member of flexible construction and adjustable as to effective length, means to attach one end of the impact member to said spring, and means to anchor the other end of the impact member.

1,426,965. DEVICE FOR HOLDING HYPODERMIC NEEDLES WHILE SHARPENING THE SAME. DAVID CROWTHER, Minneapolis, Minn. Filed June 1, 1920. Serial No. 385,621. 3 Claims. (Cl. 51—217.)



1. A device for holding hypodermic needles while sharpening the same, comprising two clamping members, and means for holding said members with their contiguous faces in contact, one of said faces being provided with a plurality of grooves inclined at different angles and any one of which is adapted to receive the needle which is to be sharpened whereby the length of the sharpening incline of the needle may be varied.

1,426,966. SECONDARY ELECTRIC BATTERY OR ACCUMULATOR. HERBERT DEAN, Clifton Junction, near Manchester, England, assignor to The Electric Storage Battery Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Sept. 30, 1921. Serial No. 504,440. 1 Claim. (Cl. 204—29.)

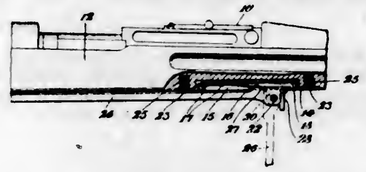


In secondary electric batteries or accumulators having a vent tube, the combination with a chamber arranged around the vent tube and provided with a compartment having a capped opening through the top accumulator wall, of two straight tubes extending into said compartment so that by removing the cap from the said compartment, the said tubes can be readily cleared of any obstruction and one of said tubes opening adjacent the bottom of the chamber and the other extending through the latter into the accumulator, substantially as described.

1,426,967. GUN SUPPORT. MICHAEL DRESCHER, Averill Park, N. Y. Filed Mar. 17, 1922. Serial No. 544,444. 2 Claims. (Cl. 42—94.)

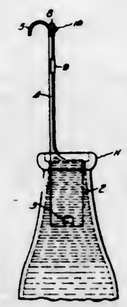
1. A gun support comprising a recessed plate set in the stock of the gun, a support rod having a head presenting

right angular surfaces pivoted between the walls of the recess centrally of the gun, and a spring fixed in the bot-



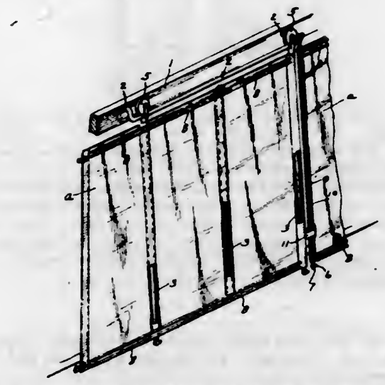
tom of the recess adapted to impinge against either of said surfaces.

1,426,968. CREAM DIPPER. FRANK S. DRIGGS, Southington, Conn. Filed Nov. 1, 1921. Serial No. 512,045. 1 Claim. (Cl. 65—28.)



A cream dipper of the class described comprising a hollow cylindrical body closed at its lower end and having a circumferential port above said closed end and also having an upwardly extending handle which rises from the upper edge portion of the body, and a valve member in the body, comprising resilient wings to frictionally engage the inner surface of the body, for controlling said port, the valve member having an upwardly extending shank slidable against and longitudinally of the handle, the shank being transversely arched, having lateral lugs bent around the edges of the handle, the handle having at its upper end a hook and the shank having a projection on its forward side.

1,426,969. FOLDING CURTAIN FOR AUTOMOBILES. FRANK A. DUNHAM, Owatonna, Minn. Filed Apr. 15, 1921. Serial No. 461,521. 7 Claims. (Cl. 296—139.)



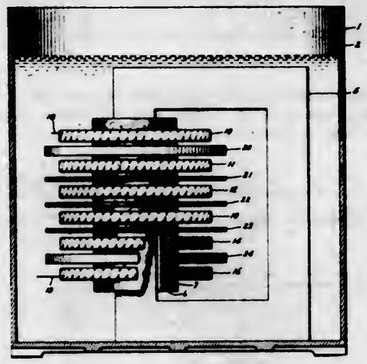
1. A vehicle curtain structure having in combination a member rigidly secured to the vehicle top and extending longitudinally thereof adjacent to the lower edge thereof, a curtain having spaced vertical members secured thereto with a pulley swivelly mounted on the upper end of said members and adapted to be supported by the run on the first mentioned member.

1,426,970. SOUND BOX. HARRY J. DURBOROW, Philadelphia, Pa. Filed Dec. 16, 1920. Serial No. 431,069. 3 Claims. (Cl. 224—27.)



1. A resonating partition for use in a talking machine sound box case including a portion providing a sound outlet passage, said partition being located between the diaphragm and the sound outlet passage of the case, said partition having grooves in one face and sound outlet openings communicating with said grooves, said grooves also being in communication with said sound outlet passage of the case; substantially as described.

1,426,971. ELECTRICAL APPARATUS. GIUSEPPE FACCIOLI, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 11, 1919. Serial No. 282,010. 5 Claims. (Cl. 175—361.)

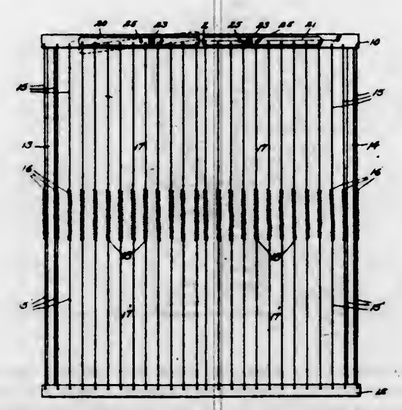


1. An electrical winding comprising a plurality of coils spaced different distances apart, and insulating means for insulating said coils from each other disposed in the spaces between the coils, said insulating means having specific inductive capacities and dimensions selected and proportioned to maintain equal capacitance effects between any pair of adjacent coils.

1,426,972. SPRING BED. OSMA N. FARNHAM, Sanish, N. Dak. Filed June 14, 1922. Serial No. 568,199. 2 Claims. (Cl. 5—67.)

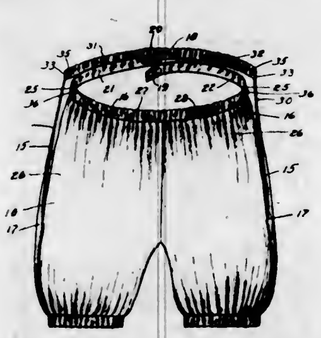
1. In a spring bed, a plurality of end members, side bars connecting said members, pivotally mounted elements

carried by the end members near the central portion thereof, resilient elements connected with the pivoted members between the pivotal points and the central longitudinal



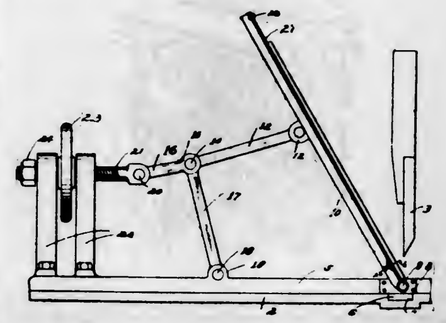
axis of the bed, and means imparting movement to the pivoted members for increasing tension on said resilient elements.

1,426,973. GARMENT. DAVID L. FINE, Dorchester, Mass. Filed Nov. 28, 1917. Serial No. 204,446. 2 Claims. (Cl. 2—143.)



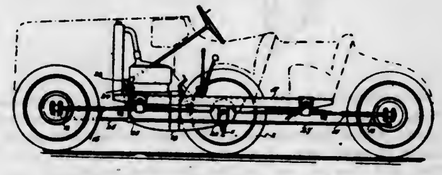
2. In a garment, a body covering divided at each side thereof from the top or waistline to a point below the hips to form a forepart and a drop-flap, said forepart being provided at the waistline thereof with an elastic band having the ends of said band permanently connected to the ends of said forepart with the intermediate section of said forepart slidably supported on said elastic band for effecting a self-gathering feature to said forepart, and said drop-flap being provided at the waistline thereof with an elastic band which is also permanently secured at the ends thereof with the sides of said drop-flap with the intermediate section of said drop-flap slidably supported on said elastic band to provide a self-gathering and self-contracting feature for a waistline of said drop-flap; a pair of straps secured to and extending from each side of said forepart adapted to be joined together to form an encircling member about the waist of the wearer to support the garment in wearing relation with the body; and coacting fastening means provided said forepart and said drop-flap at the upper points of division of same, adapted to temporarily secure said drop-flap in closed relation with said forepart.

1,426,974. BEVELING MACHINE FOR PAPER CUTTERS. WALTER M. FLOTO, Chicago, Ill., assignor to Theresa Floto. Filed Dec. 22, 1919. Serial No. 346,542. 1 Claim. (Cl. 164—58.)



A device of the kind set forth comprising in combination a base, a support pivotally mounted on said base, a knife edge movable in a plane parallel to the axis of the pivot of said support, a bracket on the base behind the support, a threaded rod passing through an aperture in said bracket and connected to the support and a nut on the rod for adjusting the position of the rod relatively to the support and thereby the angle of the support relatively to said plane.

1,426,975. CONNECTION OF MOTOR-VEHICLE WHEELS TO THE VERTICES OF A RHOMBUS. OTTAVIO FUSCALDO, Brescia, Italy. Filed Apr. 13, 1921. Serial No. 461,092. 2 Claims. (Cl. 180—21.)

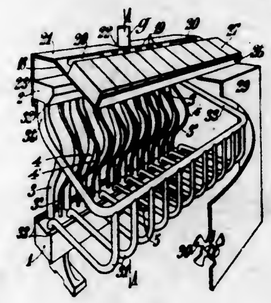


1. Connecting arrangement for motor vehicle wheels situated at the vertices of a rhombus, comprising an elastic frame built up on each side by a pair of laminated aligned springs pivotally connected with each other and with the axle of the driving wheels carrying the vehicle platform at points corresponding to the intersection of the springs with the centers of the ideal sides of the rhombus at whose vertices the wheels are arranged, and connected to the free ends of arched headers to one end of which is hinged one end of the axle of the guiding wheels, whilst to the other end of the header is secured by means of a screw-nut the other end of the same axle, substantially as described and illustrated and for the purposes set out above.

1,426,976. FIREPLACE WATER BACK. GUSTAVE GABET, Paris, France. Filed May 13, 1921. Serial No. 469,269. 3 Claims. (Cl. 126—132.)

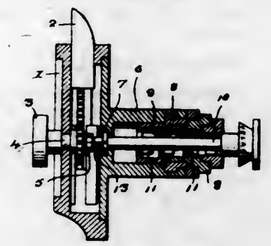
1. In a fire-place water back, upper and lower headers, a double row of curved water tubes connected with the headers, the concave curvatures of the tubes being disposed towards the back of the fire-place, the curvature of the tubes forming the outer row being of greater diameter and more accentuated than the curvature of the inner row, a row of water tubes constituting a fire grate

connected with the lower header, a front header connected with the last mentioned row of water tubes and



arranged at a higher level than the lower header, and means connecting the extremities of the front header with the upper header.

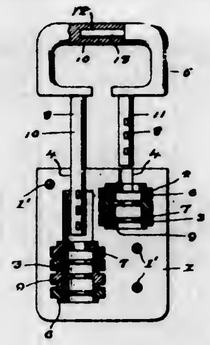
1,426,977. COMBINATION OPERATED LOCK. FRANK GAMBINO, Philadelphia, Pa. Filed Nov. 8, 1921. Serial No. 513,772. 1 Claim. (Cl. 70—53.)



In combination with a lock and its bolt, a cylindrical casing disposed at a right angle to said lock and secured thereto, a cup rotatably secured to one end of said casing, a pair of cups, one of which is adapted to rest in the other and one to rest within the first mentioned cup, each cup is provided with a keyhole shaped opening in its bottom and the rounded portion of each opening being adapted to register with each other but spaced therefrom, a key provided with spaced projections intermediate of its ends for engaging said openings when the rectangular portions thereof are in alignment to permit the longitudinal movement of the key and an extension on one end of said key for the purpose specified, and means opposing the cylindrical key casing and secured to the opposite side of the lock for operating said bolt on that side.

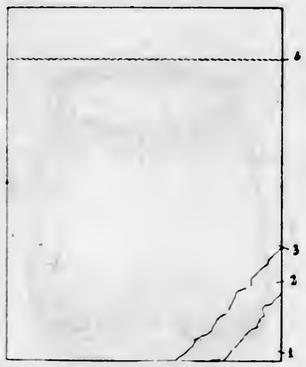
1,426,978. COMBINATION PADLOCK. FRANK GAMBINO, Philadelphia, Pa. Filed Nov. 8, 1921. Serial No. 513,773. 1 Claim. (Cl. 70—113.)

A lock of the class described comprising a casing having a pair of openings therethrough and a corresponding number of transverse bores communicating with said openings, a series of discs disposed in each opening and rotatably arranged one over the other, each disc being provided with a reduced portion on one side and a recess on the opposite side, said reduced portion on the intermediate discs being hollow and adapted to engage the recess of the adjacent disc and provide a space between each disk thereby, said discs being provided with a key hole shaped opening centrally arranged therethrough, a two part shackle, a socket in one part and a projection in the other for engaging the socket, a pair of limbs depending from said shackle and one limb being longer than the other, means for preventing the removal from the case



of the part of the shackle provided with the long limb, a plurality of spaced projections arranged on each limb and adapted to be received in the keyhole shaped opening in said discs for the purpose specified.

1,426,979. DUPLICATING, MANIFOLDING, AND THE LIKE. DAVID GESTETNER, London, England. Filed Feb. 26, 1919. Serial No. 279,423. 4 Claims. (Cl. 41—38.6.)

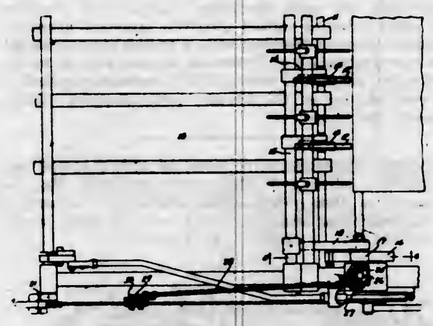


1. An improved sheet for use in the production of stencils by the action of light upon a light sensitive composition consisting of a sheet of porous material, a coating of a composition of the kind specified on the porous material, and a sheet of flexible supporting material in adhesive connection with substantially the entire surface area of the other side of the said coating.

1,426,980. DELIVERY-WHEEL TRIP FOR FEEDERS. PAUL GITZENDANNER, Woodhaven, N. Y., and FRANK J. ALBERT, West New York, N. J. Filed Oct. 7, 1921. Serial No. 506,180. 8 Claims. (Cl. 271—56.)

1. The combination with a sheet feeder for printing presses, folding machines or the like which includes an automatic throw-off mechanism, idler and driven delivery wheels between which the sheets are fed when the wheels are brought into contact with each other, and a mechanism for intermittently disposing said wheels in and out of contact, of means operable by the automatic throwoff

mechanism of the feeder and operatively associated with the intermittent mechanism for maintaining the delivery wheels out of contact whereby upon operation of the automatic throw-off mechanism, said means will serve to



prevent further feeding of the sheets through the momentum of the machine, and a connection between said means and the automatic throw-off mechanism to permit of the re-setting of the automatic throw-off mechanism without rendering the same means inactive.

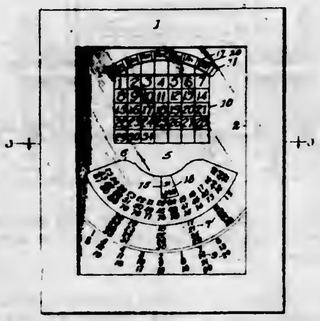
1,426,981. INSULATOR. WALTER T. GODDARD, Rochester, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed July 5, 1919. Serial No. 308,810. Renewed Nov. 7, 1921. Serial No. 513,555. 5 Claims. (Cl. 173—318.)



5. In a strain insulator, the combination with a frangible refractory element of silicious material having an annular attaching portion provided with a plurality of eyes disposed in staggered succession and equally spaced about the periphery thereof, and a connecting element, of a plurality of independent inextensible link members extending freely through and engaged in the respective eyes and each having a rocking bearing on the connecting element.

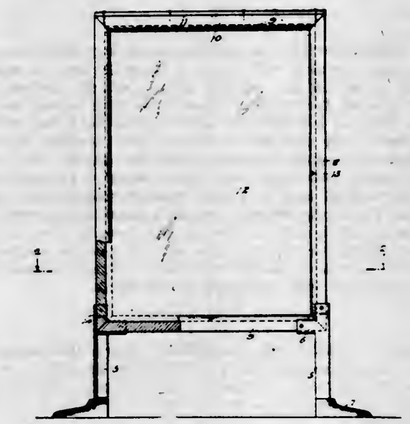
1,426,982. PERPETUAL CALENDAR. GEORGE GOLDSMITH GRUNEWALD, Perrysville, and MARY SWEET, Mifflin, Ohio. Filed Jan. 21, 1922. Serial No. 530,830. 10 Claims. (Cl. 40—113.)

1. In a perpetual calendar, having a fixed data sheet with part year indications thereon, said sheet also bearing successive month dates and having openings formed therein in spaced apart relation to each other, a revolving disk having an annular rim provided thereon and having endorsed thereon the remaining year indications, said disk also having spaced apart openings provided therein, a second disk fitted within the annular rim of the first disk and having notches formed on the rear portion therein to revolve it adjacent to the year disk, said disk also having monthly indications endorsed thereon



and indications of the days of the week arranged in association with the dates on the fixed data sheet as and for the purpose described.

1,426,983. SIGN. VINCENZO GUARDINO, Brooklyn, N. Y. Filed Mar. 27, 1922. Serial No. 547,094. 1 Claim. (Cl. 40—146.)

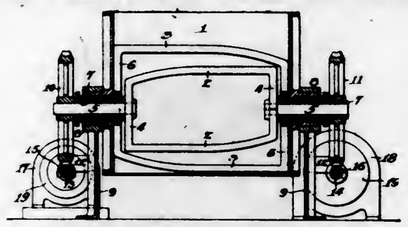


A sign including supporting members, a frame carried by said supporting members and a panel carried by said frame, said supporting members including bodies angularly disposed, foot pieces attached to the bodies, L shaped body portions provided adjacent the upper ends of said bodies, said frame partially resting within said portions, and securing means extending through said L shaped parts and into those portions of the frame extending into the same.

1,426,984. DRIVING MECHANISM FOR MIXING MACHINES. CARL C. GULDBECH, Beacon, N. Y. Filed Jan. 31, 1921. Serial No. 441,363. 6 Claims. (Cl. 259—104.)

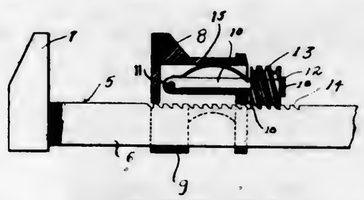
1. The combination, with the bowl of a mixing machine, of a pair of bladed mixing elements disposed within said bowl and rotatable about a common axis, rotatably driven supports for said mixing elements, a motor disposed at one end of the machine for driving one of said mixing elements, gearing interposed between said

motor and the rotatable support for said mixing element, a motor disposed at the opposite end of the machine



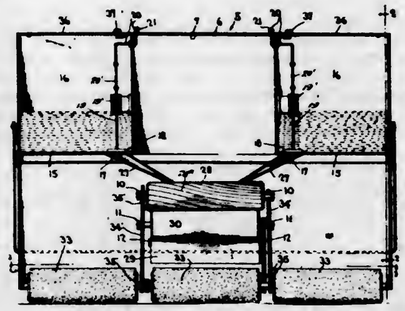
for driving the other mixing element, and gearing interposed between said motor and the support of said second mixing element.

1,426,985. WRENCH. JOHN HARRISON, Malad City, Idaho. Filed Nov. 8, 1918. Serial No. 261,638. 1 Claim. (Cl. 81—158.)



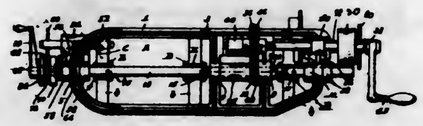
A wrench having a jaw with a shank extending therefrom and provided with teeth, a movable jaw on said shank, a bar on the movable jaw, a spindle having a head integral therewith, a screw element to engage said teeth disposed intermediate said integral head and said bar, said screw element having an axial opening therethrough of greater diameter than the spindle and of less diameter than the integral head, whereby the spindle at its free end may be passed through said opening to journal the screw element thereon against displacement, means to pivot said spindle to said movable jaw, and a leaf spring carried by said movable jaw in contact with the spindle to maintain the screw element normally in engagement with the teeth of the shank.

1,426,986. PAINTING MACHINE. JOHN HASSELBERGER, East Hampton, N. Y. Filed Nov. 21, 1916. Serial No. 132,553. 3 Claims. (Cl. 91—37.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



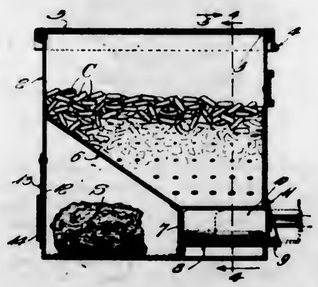
1. A painting machine including a wheel supported casing, a plurality of painting receiving compartments carried thereby and having paint discharge openings therein, valves controlling the openings, a common operating means for raising and lowering the valves, a pair of relatively small rotatable paint receiving rolls journaled in the casing and inclined in opposite directions, conduits underlying the paint discharge openings and overlying the paint receiving rolls, a relatively large roll journaled beneath the paint receiving rolls, a funnel beneath the latter, and a plurality of revolvable brushes carried by the casing and adapted to contact with a horizontal surface to be painted, one of the brushes being disposed directly beneath the funnel.

1,426,987. COMBINATION BORING AND FACING MACHINE. WILBUR J. HEMPY, Kansas City, Mo., assignor to Hempy-Cooper Manufacturing Company, a Corporation of Missouri. Filed Dec. 27, 1919. Serial No. 347,791. 5 Claims. (Cl. 77—57.)



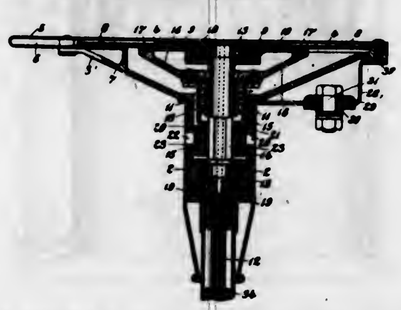
1. In a machine of the character described, a mandrel, means for operably holding said mandrel in the alined bearings of a cylinder block, tools carried by said mandrel to operate on the linings of said bearings, means for driving said mandrel, a rotary feed nut loosely embracing the mandrel and having an internal thread tapered at one end and a space at said tapered end, an element fixed to the mandrel and adapted to be advanced by the internal thread until it enters the space at the tapered end of said thread, and a projection in said space to shift said element back into engagement with the internal thread upon reversal of the feed nut.

1,426,988. BOTTLE-CAP-DISPENSING CONTAINER. LESLIE B. HOOVER, Madisonville, Ky. Filed Feb. 27, 1922. Serial No. 539,526. 1 Claim. (Cl. 211—9.)
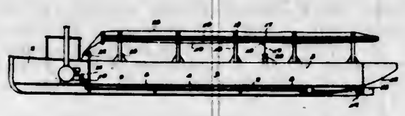


A bottle cap container and dispenser comprising an open top box formed in its front face adjacent its bottom with an opening through which the caps are discharged and formed in one of its other sides with an opening through which a moistening element is designed to be inserted and removed, a pivoted disk closing the last named opening, a stop for limiting the movement of the disk in one direction, a cover for the open top of said stop, a hopper arranged in said casing and having its discharge end disposed above the bottom of the container, said hopper being formed with a plurality of apertures to permit passage of moisture laden air therethrough to moisten the corks of the caps which are placed in the hopper, a shelf arranged in the box and disposed beneath the discharge end of the hopper and extending through the opening in the front wall of the box, a scoop slidable on said shelf, the closed end of said scoop being designed to close the opening in the front side of said box, and a moistening element in the box beneath the hopper for moistening the air therein.

1,426,989. HEDGE AND LIKE TRIMMING APPARATUS. EDWIN RIDGWAY JANES and CHARLES HUBERT ADAMS, Reading, England. Filed Oct. 8, 1920. Serial No. 415,671. 5 Claims. (Cl. 30—11.)



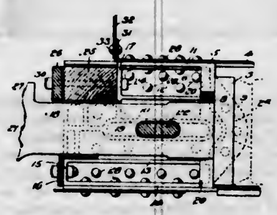
1. A hedge trimming apparatus comprising a casing, a cutter rotatably mounted in said casing, rotary actuating means movable into and out of operative engagement with said cutter, and flexible driving means operatively connected with said actuating means.

1,426,990. LOG-CARRYING BARGE. BERNARD L. JOHNSON, Vancouver, British Columbia, Canada. Filed Aug 8, 1921. Serial No. 490,669. 2 Claims. (Cl. 114—72.)



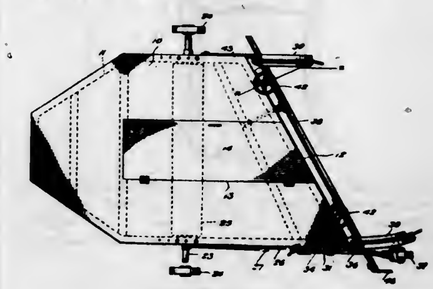
1. A log carrying vessel having a bow portion for containing the propelling and other machinery and a hull extending aft therefrom, said hull having a flat bottom and wall sides, the bottom having an upward run at the after end toward the load water line, said hull having also a log pocket between the bottom and sides, which pocket is open at the after end, means for submerging the bottom of the log pocket, and means for loading logs in the pocket.

1,426,991. DRAFT RIGGING. BYRON W. KADEL, Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 26, 1921. Serial No. 495,635. 3 Claims. (Cl. 213—42.)



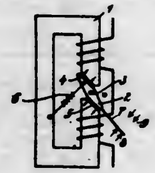
1. In a draft rigging, the combination with the center sills of a car, of cheek plates connected to the end portions thereof, said cheek plates each being provided with a recess formed by intersecting flanges, and a wooden striking block having its end portions positioning in said recess.

1,426,992. ROAD DRAG OR SCRAPER. JOHN KALIVODA, Cuba, Kans. Filed Feb. 5, 1921. Serial No. 442,717. 1 Claim. (Cl. 37—5.)



A device of the character described comprising a frame having an inclined forward edge, draft means carried by the frame and projecting forwardly beyond said inclined edge, a bar at the forward inclined edge of the frame, a plurality of upright screws threaded through said bar and provided at their upper ends with hand wheels, said screws having their lower ends formed with ball heads, a scraper blade disposed at said forward edge of the frame, a bar secured to the scraper blade and provided with sockets within which said ball heads are engaged, and upwardly and rearwardly inclined brace bars connected with the last named bar and having a slidable adjustment with respect to the sides of the frame.

1,426,993. CLOSED-CIRCUIT RELAY. PAUL KARDAETZ, Berlin-Reinickendorf, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Dec. 13, 1921. Serial No. 522,116. 4 Claims. (Cl. 175—336.)

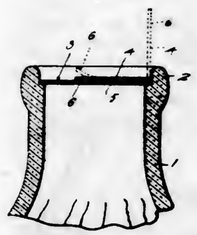


1. A closed circuit relay having poles and an armature designed to have an "on" and "off" position and being pivotally disposed midway between its ends and between said poles and permitting the flux to pass lengthwise through it when in "on" position, means tending to throw said armature into "off" position and adapted to partly remove it from the "on" position when the relay is temporarily de-energized, said armature being wider at its central portion than at its ends, causing the re-energization flux to pass transversely through said portion when the armature is partly removed from the "on" position, to permit said throw-off means to remove it entirely into "off" position.

1,426,994. MILK-BOTTLE CAP. AGNES B. KENDALL, Smith Center, Kans. Filed June 12, 1920. Serial No. 388,518. 1 Claim. (Cl. 215—51.)

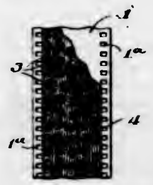
A stopper of the class described having a disk, a tongue integral therewith fastened securely against the exterior of the same from the margin to approximately

the center thereof and having a free end movable relatively to the disk to either lie flat against it or be raised to facilitate gripping, such construction enabling the stopper to be removed by force exerted at approximately



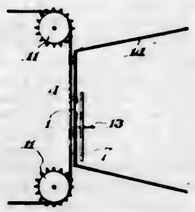
its center and the stopper to be regidified from the periphery inwardly along a radial line so that in the act of removal, such disk will move out of its retaining groove follow such portion to thus function practically as a rigid extractor member.

1,426,995. PROCESS OF PRODUCING MULTICOLORED SCREENS FOR PHOTOGRAPHY. ISIDOR KITSEE, Philadelphia, Pa. Filed Jan. 17, 1919. Serial No. 271,710. 3 Claims. (Cl. 95—81.5.)



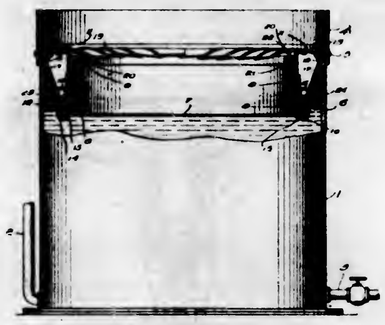
1. The process of producing a multicolored screen integral with a moving picture film which consists in producing figurations on the gelatinous substratum of said film with the aid of a colored alcoholic solution containing a dissolved resin and coloring the interspaces between said figurations with the aid of a dye insoluble in alcohol.

1,426,996. METHOD AND APPARATUS FOR PRODUCING MATRICES AND FOR PRODUCING COLOR SCREENS THEREFROM. ISIDOR KITSEE, Philadelphia, Pa. Filed May 10, 1919, Serial No. 296,157. Renewed Apr. 11, 1922. Serial No. 551,673. 4 Claims. (Cl. 95—81.5.)



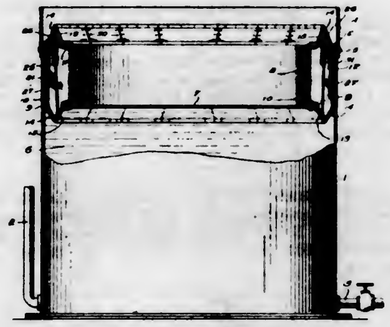
1. The method of producing photographically a matrix useful for the production of color screens for moving picture films which consists in continuously moving a properly sensitized film in required relation to a fixed templet with one line of minute transparent figurations, transmitting light through said figurations and intermittently screening the light from said transparent figurations.

1,426,997. DECK FOR OIL TANKS. HARRISON RUSSELL LELAND and WILLIAM SCHWEMLEIN, Parkersburg, W. Va., assignors to Parkersburg Rig & Reel Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed May 9, 1921. Serial No. 468,058. 4 Claims. (Cl. 220—26.)



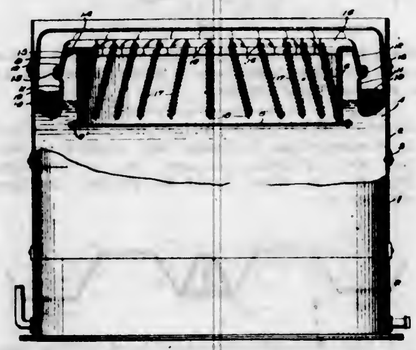
4. The combination with an oil tank, of a floating deck comprising a body portion of less diameter than the diameter of the tank, an upwardly extending rim secured thereto, a plurality overlapping plates hinged to the body portion of the deck and extending upwardly at an angle to contact with the wall of the tank, said plates being provided with extensions engaging the upper end of said rim, and a coil spring secured to each of said plates to normally maintain it in contact with the wall of the tank.

1,426,998. DECK FOR OIL TANKS. HARRISON RUSSELL LELAND and WILLIAM SCHWEMLEIN, Parkersburg, W. Va., assignors to Parkersburg Rig & Reel Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed May 10, 1921. Serial No. 468,213. 5 Claims. (Cl. 226—26.)



5. In an oil tank, a floating deck comprising a body portion of less diameter than the diameter of the tank, an upwardly extending rim secured thereto, said rim being provided with a flange on its upper end, a series of plates contacting with the wall of the tank and spaced from said rim, links connecting the upper ends of said plates to said flange, links connecting the lower ends of said plates to the body portion of the deck, and springs arranged between said links to normally maintain said plates in engagement with the wall of the tank.

1,426,999. FLOATING DECK FOR OIL TANKS. HARRISON RUSSELL LELAND and WILLIAM SCHWEMLEIN, Parkersburg, W. Va., assignors to Parkersburg Rig & Reel Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed May 12, 1921. Serial No. 469,021. 6 Claims. (Cl. 220—26.)



6. A floating deck for oil tanks comprising a body portion, an upwardly extending rim secured thereto, said rim being provided with a flange on its upper end, a series of plates arranged circumferentially of the body portion and contacting with the wall of the tank, the lower ends of said plates being extended inwardly and upwardly, a second plate secured to each of said plates and extending upwardly, said second plate being provided with a flange adapted to rest on the flange of the rim to pivotally support said plates, levers secured to said second plates and extending inwardly, and springs secured to said levers to normally maintain said first plates in contact with the wall of the tank.

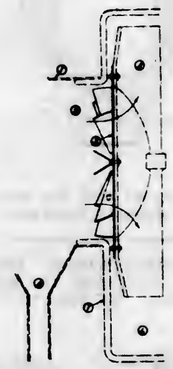
1,427,000. PEANUT-BLANCHING ROLLER AND METHOD. ALEXANDER LEWINSKI, Chicago, Ill., assignor of one-tenth to William R. Smith, Chicago, Ill. Filed July 20, 1920. Serial No. 397,586. 28 Claims. (Cl. 146—14.)



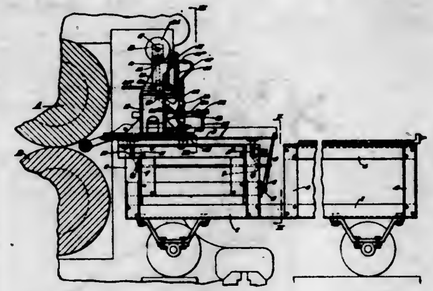
5. Peanut blanching rollers rotated at different speeds each roller being hollow and constructed to individually subject each peanut to a rubbing action pneumatically controlled.

1,427,001. SEPARATING ROTOR. LEVI S. LONGNECKER, Washington, D. C., dedicated, by mesne assignments, to The People of the United States. Filed Mar. 11, 1922. Serial No. 543,074. 7 Claims. (Cl. 183—77.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. In a separator, a conduit, means for creating a stream therethrough of a fluid medium bearing particles to be separated, a rotor mounted in said conduit having apertures for the passage of said fluid medium and having particle-engaging members adjacent said apertures inclined from the plane of rotation of said rotor toward the upstream side of said fluid medium traversing said conduit.



1,427,002. COLD-ROLL FEEDING MECHANISM. EDWIN T. LORIG and HOWARD G. MCILVRIED, Pittsburgh, Pa., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed July 16, 1921. Serial No. 485,312. 5 Claims. (Cl. 271—30.)

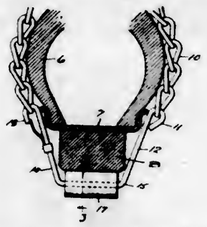


1. In an automatic plate feeder, a lifting arm having means for adhesively engaging and holding a plate, and means for moving said lifting arm vertically and transversely, said means including a guide cam, a cross head in said guide cam, a crank arm pivoted on a pin in said cross head and having one end secured to said lifting arm, means for raising said cross head vertically in said cam guide, and means for rocking said crank arm about said pin.

1,427,003. ANTISKID CHAIN. WALTER H. LUCAS, Jr., West Park, Ohio, assignor to Sarah A. Gibbons, Cleveland, Ohio. Filed Feb. 1, 1922. Serial No. 533,205. 2 Claims. (Cl. 152—14.)

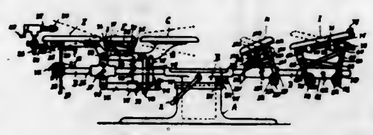
1. An antiskid device for wheels comprising a chain adapted to extend across the wheel tire, and a bail con-

nected to the ends of the chain and extending across within the wheel felloe, said ball being provided with a



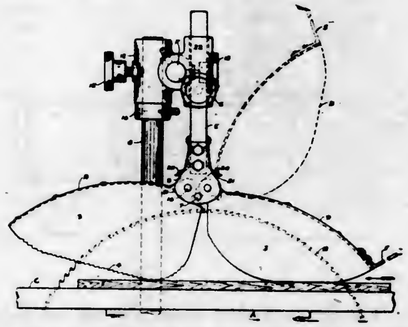
roller adapted to contact with the inner surface of the felloe, between the spokes of the wheel.

1,427,004. TREATMENT TABLE. JOHN V. MCMANIS, Kirksville, Mo. Filed May 12, 1917. Serial No. 168,221. 36 Claims. (Cl. 128—73.)



1. A treatment table comprising a base, a main frame supported upon and vertically adjustable relative to the base, a centrally located resiliently supported top section mounted upon said main frame, a pair of independently adjustable top sections in line with and at one side of said resiliently supported top section, and a pair of independently adjustable top sections in line with and at the opposite side of said resiliently supported top section.

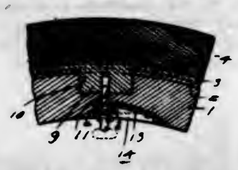
1,427,005. SAW GUARD. JAMES D. MCMICHAEL, Rochester, N. Y. Filed Dec. 26, 1919. Serial No. 347,547. 3 Claims. (Cl. 143—150.)



1. A saw guard formed to substantially cover the saw in its working position and attached to a vertically adjusted support, said support being secured to a horizontal sliding bar and means convenient for sliding the horizontal bar and the saw guard out of the range of the saw when required.

1,427,006. DEMOUNTABLE RIM. ALBERT H. MADARA, Swedesboro, N. J. Filed July 8, 1921. Serial No. 483,212. 1 Claim. (Cl. 301—11.)

A vehicle wheel having recesses in the tread side of its felly, a demountable rim provided with lugs fitting the said recesses, latches mounted in the felly and engaging the lugs, flat springs seated in recesses in the felly and engaging the latches to normally hold them projected, and elongated stops carried by the latches and



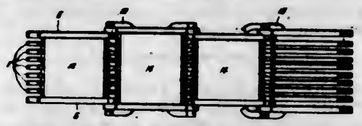
adapted to engage the felly at the sides of the recesses to hold the latches withdrawn to permit the mounting or the dismounting of the rim.

1,427,007. SHEET-METAL BUILDING. FREDERICK JOHN G. MAISENHALDER, Baltimore, Md., assignor to Maryland Metal Building Company, Inc., a Corporation. Filed Dec. 22, 1920. Serial No. 432,504. 2 Claims. (Cl. 189—2.)



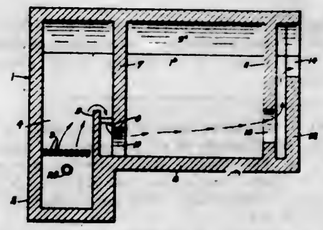
1. A joint construction for sheet metal building panels consisting of complemental panels having beads with outwardly extending portions in contact with each other, inwardly extending angularly disposed portions on said beads spaced from the first mentioned portions at the inner end, and a cap to intimately contact with and enclose said beads having inturned flanges insertible beneath the inner edges of the second mentioned portions and in contact with the panels in advance of the first mentioned portions.

1,427,008. METALLIC LINK BELT. SHIGERU MATSUMOTO, Osaka, Japan. Filed Aug. 14, 1920. Serial No. 403,561. 8 Claims. (Cl. .4—64.)



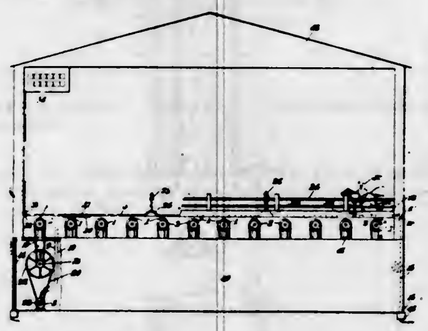
1. A belt composed of a plurality of links, each link comprising a plurality of link members arranged side by side capable of being varied in number to vary the width of the belt, gripping members carried by the link members and traction member carried by the gripping members and lying in facial abutment with the edges of the link members.

1,427,009. PAIR FURNACE. JOHN MILHOLLAND, Leechburg, Pa. Filed Jan. 24, 1922. Serial No. 531,448. 3 Claims. (Cl. 263—40.)



1. In a pair furnace, a casing provided at one end with a fire box, baffles extending across said casing adjacent to each end thereof, the baffle adjacent to the fire box being provided with ports positioned closely adjacent to the bottom of the casing and the baffle remote from the fire box being provided with ports spaced above the bottom of the casing.

1,427,010. STEEPLECHASE DEVICE. LAMBERT O'NEILL, Sr., and LAMBERT O'NEILL, Jr., Richmond, N. Y. Filed July 16, 1920. Serial No. 396,765. 13 Claims. (Cl. 46—56.)



1. In a game of skill a plurality of tracks, a separate dynamo for each track, means for driving each dynamo, a motor driven device on each track normally tending to return to the starting point but adapted to be driven by the dynamo, and means for limiting the speed of a given dynamo upon increasing the speed of its driving means whereby the motor driven device, operating upon the track to which is connected the dynamo having its speed limited, is controlled in its operation independently of the speed at which the other dynamos are operated.

1,427,011. ELECTRIC-BATTERY ELECTROLYTE. LEOCADIO G. ORSOLINO, Manila, P. I. Filed Feb. 7, 1922. Serial No. 534,743. 2 Claims. (Cl. 204—29.)



2. An electrolyte for primary battery cells, consisting of vinegar obtained by fermentation of the sap extracted from palm trees such as the nipa and cocoanut palm species thereof.

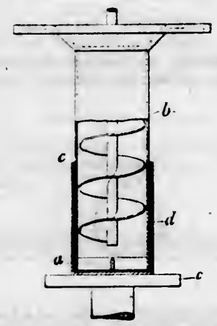
1,427,012. WING AND SIMILAR MEMBER OF AIRCRAFT. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed Jan. 4, 1922. Serial No. 526,888. 3 Claims. (Cl. 244—12.)

1. In aeroplane flying machines; wing structures each comprising a wing-section main wing and a wing-section auxiliary wing extending adjacent the edge of said main wing and in a direction transversely of the line of flight, a plurality of supporting arms fixed to said auxiliary wing and extending therefrom, said main wing having guideways to receive said supporting arms and within which guideways said supporting arms can slide, and



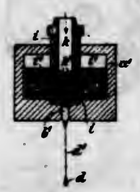
means for communicating sliding movements of adjustment to said auxiliary wing to and from the edge of said main wing and parallel therewith to close or open a slot between said auxiliary wing and said main wing.

1,427,013. FILLING DEVICE. RALPH BERT PARTRIDGE, Birmingham, England, assignor to Southall & Smith Limited, Birmingham, England. Filed Aug. 9, 1921. Serial No. 490,979. 2 Claims. (Cl. 226—23.)



1. In machines of the type specified for packing or measuring powdered material into receptacles, the combination with a delivery nozzle, of a grid through which the material passes before leaving the nozzle, substantially as described.

1,427,014. APPARATUS FOR THE PRODUCTION OF SPUN GLASS. GEDEON VON PAZSICZKY, Hamburg, Germany. Filed Aug. 25, 1921. Serial No. 495,229. 5 Claims. (Cl. 49—17.)



5. An improved apparatus for the production of spun glass comprising in combination a receptacle filled with molten glass having outflow orifices in its bottom plate, a vertical tube in said receptacle having inflow ports, a tube revolvably mounted in said vertical tube having inflow ports adapted to register with said inflow ports of the vertical tube so that a determined quantity of molten glass can flow from the receptacle into the inner revoluble tube, means for exerting a pressure upon the molten glass in said inner tube, and a revolving cylinder under said re-

ceptacle upon whose surface the drops of glass adhere which come out of said orifices and around which the glass threads are wound which are drawn by said drops.

1,427,015. SYSTEM OF AIRCRAFT PROPELLERS, WITH BLADES OF VARIABLE INCIDENCE AND CAMBERING. RAUL PATERAS PESCARA, Barcelona, Spain. Filed Nov. 14, 1919. Serial No. 337,919. 7 Claims. (Cl. 170—163.)



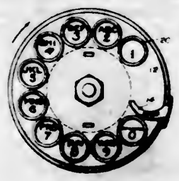
1. A propeller for aircraft comprising blades, a mounting for the blades and means carried by said mounting for varying the angle of incidence and the camber of the blades.

1,427,016. KEY RING. LOUIS EDWARD POLHEMUS, Miami, Ariz. Original application filed July 12, 1921. Serial No. 484,180. Divided and this application filed Nov. 7, 1921. Serial No. 513,431. 4 Claims. (Cl. 24—3.)



1. The combination with a holder, of a key ring having crossed arms and inturned fingers at the ends of the arms, said fingers adapted to abut at their ends to form a holder receiving eye.

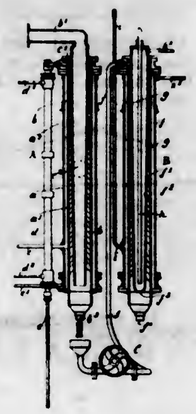
1,427,017. FINGER PIECE. JULIUS S. POPPER, New York, N. Y. Filed Jan. 19, 1921. Serial No. 438,438. 7 Claims. (Cl. 179—90.)



1. In machine switching telephones, a revoluble finger wheel provided with a series of tubular fingerpieces rotatably mounted on the finger wheel.

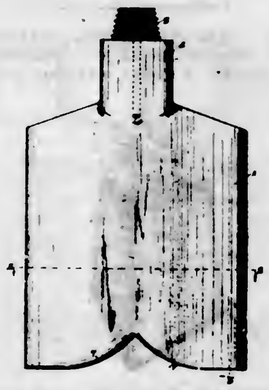
1,427,018. COOLING APPARATUS. WILLIAM EDWARD PRESCOTT, London, England, assignor to Joseph Baker, Sons and Perkins, Limited, Willesden Junction, London, England. Filed Dec. 7, 1921. Serial No. 520,669. 2 Claims. (Cl. 257—243.)

1. A cooling apparatus of the character described comprising an outer jacket, two tubes contained within the jacket and having a spiral passage therebetween, the inner of said tubes being closed at its bottom and the outer being spaced from the jacket, means for admitting the substance under treatment to the spiral passage, means for



admitting a cooling medium to the space between the jacket and outer tube, and means for admitting a cooling medium to the inner tube.

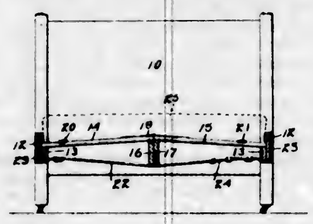
1,427,019. CURVED-WING ROTARY BIT. GEORGE E. PUTNAM, Los Angeles, Calif. Filed Nov. 27, 1920. Serial No. 426,856. 1 Claim. (Cl. 255—61.)



A rotary bit having radially curved wings forming side cutting edges, and cutting ends upon said wings curving downwardly and outwardly from the axis of the bit, and terminating in cutting edges meeting the side cutting edges at substantially right angles.

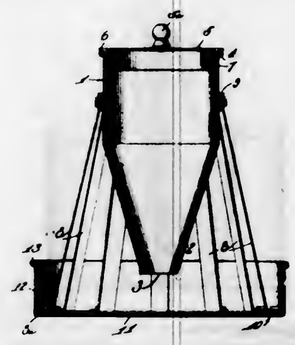
1,427,020. BED BOTTOM. JOE ROOKS, Andersonville, Ga. Filed Nov. 21, 1921. Serial No. 516,659. 4 Claims. (Cl. 5—25.)

4. A bed bottom comprising a pair of opposed series of slats at the opposite sides of the bed, longitudinal bars supporting the slats of each series at their inner ends, rods extending transversely of the bed for supporting said bars,



and turn buckles for adjusting said rods, substantially as set forth.

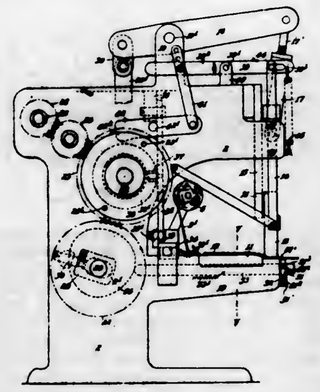
1,427,021. FEED HOPPER FOR POULTRY. WALLACE A. RUDOLPH, Renville, Minn. Filed Apr. 22, 1922. Serial No. 555,967. 1 Claim. (Cl. 119—53.)



A hopper of the class described comprising a substantially cylindrical feed container having a funnel-like lower portion, a feed receiver positioned below said container, said receiver being in the form of a tray having an upstanding circumferential flange, the discharge end of the funnel-like portion, of said container projecting into the receiver below the top thereof, a container encircling band, combined guards and supporting braces secured at one end to said band, a flat ring connecting their other ends adapted to lie on the bottom of said receiver, said braces diverging and forming guards to prevent the poultry from getting into the tray.

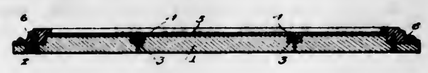
1,427,022. DARNING MACHINE. WALTER E. SAWTELL, London, England. Filed July 26, 1920. Serial No. 399,112. 5 Claims. (Cl. 66—3.)

1. An apparatus for repairing knit material comprising a row of alined spaced bearded needles mounted for descending and rising movement, means for imparting movement to said needles to cause them to first descend through the material to be repaired and then to pass upwardly through it, a yarn carrier movable to and fro transversely of and in the rear of the row of needles for spreading yarn behind the needle and below said material, a series of independently operated reciprocating sinkers for pushing the spread yarn forwardly between and against the needles when in the lowered position and for looping the yarn about the needles, means for closing the beards of the needles to cause said beards to engage the yarn for drawing said loops through said material during the rising movement of the needles, means for reciprocating said sinkers, means for imparting a step-by-step movement to said material in a direction rearwardly of and relatively to the row of needles, means for holding said material against



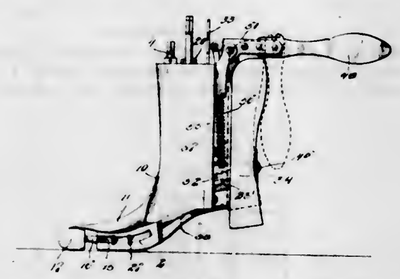
movement during the descending and rising movements of said needles, and means for actuating said several mechanisms.

1,427,023. STOVE BOARD. JOHN SCHEFFER, Newark, N. J. Filed June 22, 1920. Serial No. 390,784. 2 Claims. (Cl. 126—278.)



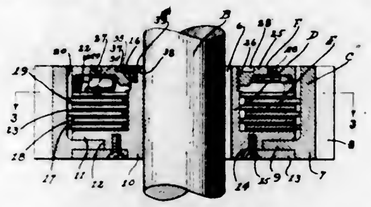
1. A stove board of the class described comprising a base board having its edges rabbeted and grooves formed in its upper face, reinforcing strips arranged within said grooves, a metal plate arranged on said board, an ornamental frame having a portion engaging the rabbeted part of the board and an edge engaging the edge of the plate.

1,427,024. EXPANSIBLE SHOE LAST. CARL SCHEVITZ, Jacksonville, Fla. Filed Aug. 29, 1921. Serial No. 496,352. 8 Claims. (Cl. 12—128.3.)



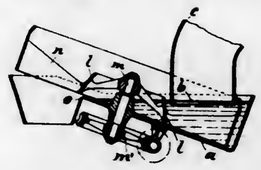
1. A shoe last of the class described comprising a main frame, a heel frame slidably connected with the main frame, manually operated means for adjusting the heel frame and means permitting the heel frame to be adjusted vertically to suit shoes with high and low heels, such means consisting of a supporting member for the heel frame and a screw and slot connection between the same and heel frame.

1,427,025. SAFETY FRICTION GEAR. CHARLES A. SCHLAFLY, New Philadelphia, Ohio. Filed Jan. 30, 1922. Serial No. 532,693. 3 Claims. (Cl. 74—29.)



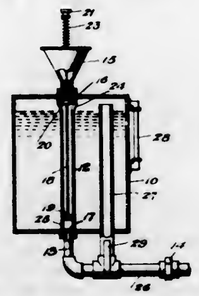
1. A power transmitting driving element comprising a hub, a rim, means for preventing lateral movement of the hub and rim in relation to one another, a set of friction plates disposed between the hub and rim and slidably carried by the hub and in driving contact therewith, a second set of plates interposed between the first mentioned plates and arranged between the hub and rim and slidably carried by the rim and in driving contact therewith, fiber gripping discs disposed between the sets of friction plates, an adjusting ring associated with the hub and rim, and springs carried by one of the friction plates and engaging the adjusting ring for urging the friction plates into frictional contact with said frictional gripping discs.

1,427,026. ROTARY APPARATUS FOR REMOVING MATERIAL TO BE DUMPED FROM FURNACES. GEORG SCHWABACH, Charlottenburg, near Berlin, Germany. Original application filed Oct. 7, 1916. Serial No. 124,405. Divided and this application filed Sept. 2, 1921. Serial No. 498,039. 3 Claims. (Cl. 214—18.)



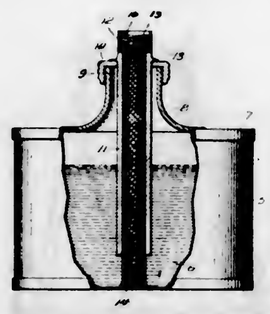
1. In apparatus for removing material to be dumped into heaps from furnace installations, the combination with a discharge pipe for the material, of a tank containing water sealing the end of the discharge pipe, and rotary bladed conveyor means mounted in the tank for removing therefrom material discharged through said pipe.

1,427,027. AUTOMATIC FEED. RICHARD S. SILVIS and THEODORE EVERS, Rock Island, Ill. Filed Apr. 2, 1920. Serial No. 370,874. 1 Claim. (Cl. 137—21.)



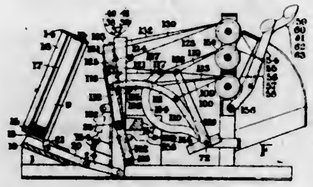
The combination with a liquid receptacle, of a supply tank, a pipe extending vertically therethrough provided with a plurality of openings adjacent the top and bottom of said tank and having a reduced lower end providing a valve seat, a funnel shaped member secured to the upper end of said pipe and providing a valve seat, a valve stem extending longitudinally through said pipe and extending above said funnel shaped member, spaced valves carried by said stem adapted to alternately engage said valve seats, a cross member carried by said funnel shaped member, a handle secured to the upper end of said stem, a coil spring surrounding said stem and exerting a pressure between said handle and said cross member, a pipe connected to said receptacle and connected to the reduced end of the pipe extending through said tank, a pipe connected to the last mentioned pipe, extending through said tank adjacent to the first mentioned pipe and terminating short of the top of said tank, a relatively short pipe extending from the point of connection of the pipes aforesaid and communicating with the atmosphere, and a gauge connected to one side of said tank.

1,427,028. HEATER. LUCIUS H. SOLOMON, Tiffin, Ohio. Filed Mar. 23, 1921. Serial No. 454,733. 1 Claim. (Cl. 158—94.)



The combination with an oil reservoir having a frusto conical neck, provided with external threads, a centrally perforated cap detachably engaged on the threaded neck, a wick tube removably fitted in the perforation in the cap and having its bore enlarged at the outer end to provide internal seats, an asbestos pad filling the enlarged bore and resting on the seat, a wick in the tube and contacting at its outer end with the pad, and a flange exteriorly on the tube and engaged upon the cap to hold the tube vertically suspended in the reservoir.

1,427,029. MONEY-DELIVERING APPARATUS. JAMES FREDERICK SOUTHGATE and WALTER CAREY, Chelmsford, England. Filed May 12, 1922. Serial No. 560,305. 7 Claims. (Cl. 133—4.)



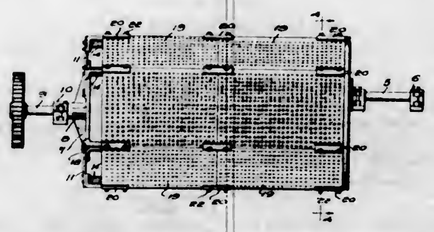
1. A coin delivery machine comprising in combination, a row of coin chutes, each having a reciprocatory coin ejector at the base thereof, a row of substantially upright ejector levers behind the coin chutes, each lever being operatively connected to one of said coin ejectors, a row of key levers pivotally mounted adjacent said ejector levers, a number of pivoted yokes for actuating some of said ejector levers, some of said yokes engaging said levers below the pivot and others of said yokes engaging said levers above the pivots, means connecting some of said key levers to said yokes, and means connecting the remainder of said key levers directly to some of said ejector levers, substantially as and for the purpose hereinbefore set forth.

1,427,030. STILT. JOSEPH J. STEPHENS, Richmond, Mo., and CLINTON B. HARRIS, Dallas, Tex. Filed Apr. 25, 1921. Serial No. 464,378. 2 Claims. (Cl. 135—53.1.)



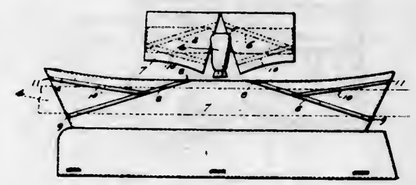
2. A stilt comprising, a bar, a foot rest carried thereby, an approximately U-shaped guard secured to the lower end of the bar and having an opening in its bottom, a prong arranged within the opening and projecting outwardly beyond said bottom, and a boot disposed exteriorly of the guard and projecting laterally beyond the same and including a base and upwardly converging sides, said base having an opening to receive the prong which projects outwardly beyond the same, and means for securing the upper ends of said sides to said bar.

1,427,031. REVOLVING SCREEN. WALTER H. STEPP, Douthat, Okla. Filed Oct. 27, 1921. Serial No. 510,747. 4 Claims. (Cl. 83—56.)



1. A rotary screen comprising a pair of end plates, longitudinal supporting members secured to said end plates, said members being provided with longitudinally extending grooves, fastening elements mounted in said grooves, and perforated plates mounted on said supporting members and retained in position by said fastening elements.

1,427,032. COLLAR. HARRY B. STODDARD, Syracuse, N. Y. Filed Feb. 28, 1920. Serial No. 362,032. 1 Claim. (Cl. 2—71.)



A fold collar having a band section, a folded-over top section, a relatively long diagonally disposed tape attachable at one end to an end of the top section adjacent to the junction with the other section and attachable at its other end to the free longitudinal edge of the top section, a relatively short tape attached to said tape intermediate its ends, the other end of said short tape being attached to the same end of the top section as the long tape, and the band section having button holes for registration within the space confined by said tapes.

1,427,033. CASING SPEAR. CHARLES S. STRAIGHT, Ranger, Tex. Filed Oct. 21, 1920. Serial No. 418,524. 1 Claim. (Cl. 294—96.)

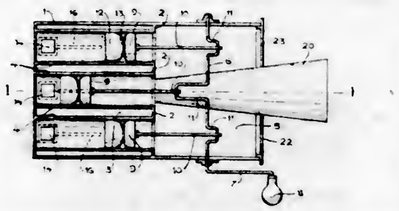


In a casing spear, a body having tapered slipways, said body provided with a pocket and a bore communicating therewith in its lower end, a latch pivotally mounted in the bore, a slip supporting mechanism comprising a head and a stem, said stem slidably mounted in the bore, spring means for normally holding said head in abutment with the lower end of the body and a leaf spring situated upon the lower slipway for engaging the latch so that same will engage the stem for normally holding the head out of engagement with the lower end of the body and a plurality of slips mounted upon the slipways.

1,427,034. SIREN OR FOGHORN. OLOF HJALMAR SVENSSON, Gottenborg, Sweden. Filed June 30, 1921. Serial No. 481,638. 5 Claims. (Cl. 116—139.)

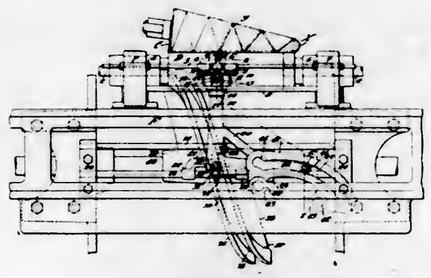
5. In sirens, a casing, a partition wall arranged within the casing and dividing the same into two compartments, a plurality of cylinders arranged in one compartment, pistons arranged in said cylinders, means for actuating said pistons, passageways arranged in said cylinders and adapted to permit air compressed by said pistons to be forced in to the compartment in which the cylinders are arranged, check valves controlling said air passageways, a chamber arranged within one of said compartments

and having an air passageway, a check valve for closing the air passageway leading into said chamber, a vibrating



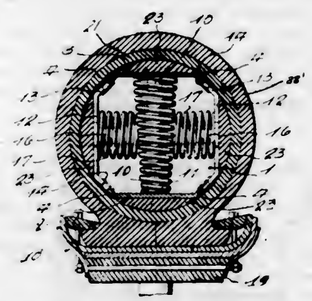
device adapted to be actuated by compressed air within said chamber, and a horn connected to said vibrating device.

1,427,035. TRAVERSE MOTION FOR WINDING MACHINES. GEORGE N. TAYLOR, East Providence, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 13, 1921. Serial No. 507,496. 20 Claims. (Cl. 242—43.)



1. In a winding machine, the combination with a rotatable cop-holder, of means for traversing the yarn on the holder, a cam for reciprocating the traverse-means and means intermediate the cam and the traverse-means to effect a differential movement of the latter whereby the yarn is traversed with increasing speed toward one end of the holder and decreasing speed toward the opposite end thereof.

1,427,036. INNER TUBE. JOSEPH H. TAYLOR, Mellen, Wis., assignor of one-third to Milton G. Ross and Milton E. Meredith, both of Mellen, Wis. Filed Oct. 25, 1921. Serial No. 510,265. 6 Claims. (Cl. 152—8.)

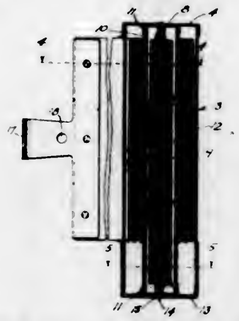


3. A cushion inner tube comprising inner and outer bands, pins secured to said bands at spaced intervals, coil springs engaging said bands and receiving the pins in the ends thereof, pivotally connected side plates flexibly connected to the inner and outer bands, pins secured to said side plates, and coil springs bearing against the side plates and receiving the last named pins in the ends thereof.

1,427,037. HYDROGENATING CATALYZER. GUSTAV TEICHNER, Vienna, Austria. Filed Sept. 29, 1920. Serial No. 413,646. 10 Claims. (Cl. 23—28.)

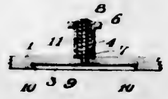
1. The process of preparing a catalyst adapted for hydrogenating organic substances which comprises reducing in a dry state a precipitated non-coherent, loose, amorphous compound of nickel at such a low temperature that cohesion or slagging of the particles, is avoided while leaving the interior of each particle unreduced.

1,427,038. SUN SHIELD FOR AUTOMOBILES. ERNEST W. TOADVINE, Los Angeles, Calif. Filed Nov. 16, 1920. Serial No. 424,419. 2 Claims. (Cl. 296—97.)



2. A shade strip wound upon a roller, a casing inclosing the same, said casing being longitudinally split and provided with a closed end and an open end, a rotatable closure cap upon the open end and having nonrotatable engagement with the roller shaft, and means to prevent relative rotation of the casing and closure cap.

1,427,039. ATTACHMENT FOR RULES. RAYMOND TRANE, Omaha, Nebr., assignor of one-third to Cordelia Boon and one-third to Eustace E. Ashley, both of Omaha, Nebr. Filed Feb. 21, 1922. Serial No. 538,149. 3 Claims. (Cl. 33—107.)



1. The combination with a rule having a grooved under face, of a bar fitting nonrotatably and normally resting in said groove and having downwardly extending prongs at its ends, and means for moving the bar downwardly to move said prongs out of said groove.

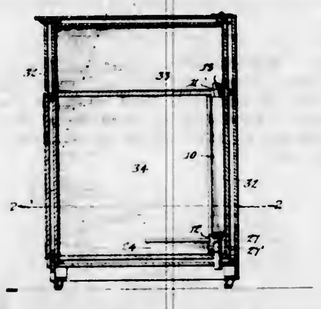
1,427,040. COMBINATION TOILET ARTICLE. ADA WEINER, Everett, Mass. Filed Oct. 20, 1921. Serial No. 509,140. 6 Claims. (Cl. 132—78.5.)

5. An article of the class described comprising a piece of chamois-skin, a cloth covering the outer face of said skin and stitched thereto, a pocket formed at one end of said chamois, a powder-puff stitched around approximately one half of its periphery to the opposite end of said puff, to form a second pocket in which powder may be placed, the powder applying face of said puff contacting the inner face of the chamois-skin to permit the latter to serve as a protector for the puff, a covering for the outer face of said puff, and a transversely disposed hand-strap connected with the article intermediate the ends



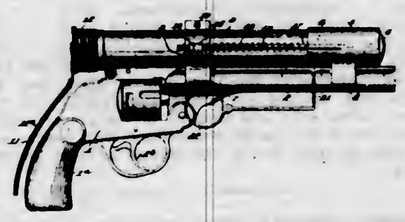
thereof, whereby when the powder-puff and end of the chamois to which it is connected is positioned in the first named pocket, a compact and attractive article will be provided for carrying in a person's hand.

1,427,041. ATTACHMENT TO REFRIGERATING APPARATUS. JULIAN WEST and EDWARD C. CAMPBELL, Norfolk, Va. Filed Dec. 20, 1921. Serial No. 523,740. 3 Claims. (Cl. 62—55.)



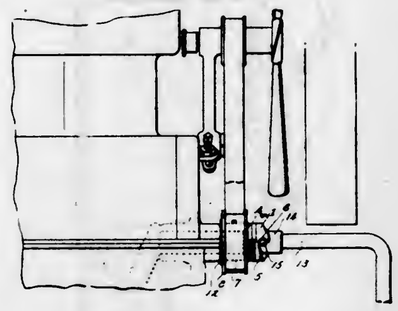
1. An attachment for a refrigerating apparatus comprising a vertically disposed drip receiver having an intake at the upper side and an outlet at the lower side, a horizontally disposed drip receiver having internal vertical division members dividing the interior into a plurality of compartments side by side with communicating passages at their alternate ends, one of the terminal compartments having an intake and the other terminal compartment having an outlet, an inclined conductor between the outlet of the vertical drip receiver and the intake of the horizontal drip receiver, and an inclined conductor leading from the outlet of the horizontal drip receiver.

1,427,042. ATTACHMENT FOR FIREARMS. DOUGLAS WETMORE, Portsmouth, Va. Filed July 26, 1921. Serial No. 487,700. 13 Claims. (Cl. 240—2.)



1. The combination of a firearm, an electric lamp on the barrel of the firearm, and means adapted to be actuated by the trigger manipulating hand of a person using the firearm, while engaging the trigger, for decreasing and increasing the area illuminated by the lamp and focusing the beams of light upon a particular portion of said area.

1,427,043. CRANK-SHAFT-ADJUSTING MEANS. HOWZE L. WHITLEY, Bryan, Tex. Filed July 7, 1921. Serial No. 483,041. 4 Claims. (Cl. 64—49.)



1. A crank shaft adjusting means, comprising an element secured to the shaft and exteriorly threaded, a fan pulley threaded upon said element, and a thrust washer carried by the fan pulley to engage an adjacent part of the engine in the adjustment of the fan pulley on said element.

1,427,044. PASTRY LIFTER. WILLIAM G. WILSON, West Brighton, N. Y. Filed Apr. 22, 1921. Serial No. 463,489. 4 Claims. (Cl. 294—99.)

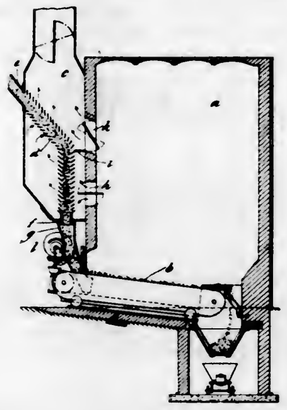


1. A pastry lifter and handling device comprising a member formed of a single length of springy material bent between its ends to form a coil, the material being extended from said coil to provide relatively diverging branches, said branches being disconnected relatively except through said coil, each of said branches having a coil, the coils of said branches arranged in the same horizontal line and respectively disposed beyond the vertical center of the first said coil, and having their axes parallel to the axes of the first said coil, and jaw-like extensions of the material continued from said second named coils.

1,427,045. DRYING FUEL SUPPLIED TO FURNACES OR THE LIKE. WILFRED R. WOOD, London, England. Filed Mar. 25, 1919. Serial No. 285,016. 1 Claim. (Cl. 110—29.)

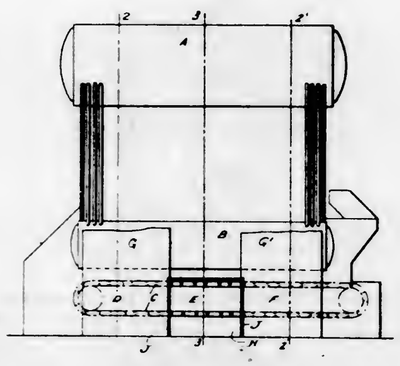
The process for heating fuel by the waste gases of a boiler furnace in a chute down which the fuel falls on to the grate of the furnace, which consists in passing the waste gases over and through the fuel in the chute,

and in so proportioning the waste gases passing over or through the chute that the temperature to which the fuel is heated is not high enough to distil the fuel but



exceeds that necessary to dry the fuel, the water vapour produced either escaping upwards through the fuel or being carried away with the waste gases.

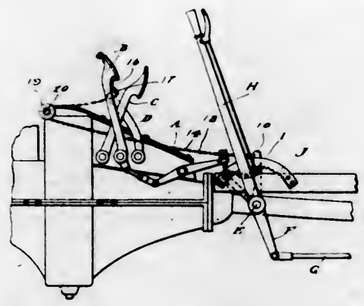
1,427,046. METHOD OF OPERATING FURNACES. HAROLD E. YARROW, Glasgow, Scotland. Filed Apr. 6, 1920. Serial No. 371,744. 1 Claim. (Cl. 110—40.)



A method of operating a furnace, which consists in moving the fire bed progressively therethrough, in heating air and supplying the same to the end portions of the fire bed from beneath, and in supplying cold air to the central portion of the fire bed from beneath.

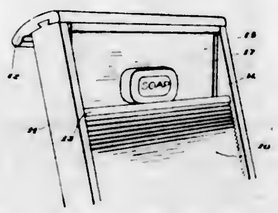
1,427,047. BRAKE-ACTUATING DEVICE. EMANUEL ZANNETTI, Gloversville, N. Y. Filed Aug. 16, 1921. Serial No. 492,720. 3 Claims. (Cl. 74—39.)

1. The combination with the emergency brake setting shaft of a Ford automobile and with the foot brake pedal, of a clamping device adapted to be secured upon the crank shaft of the emergency brake apparatus and including an extending arm, a supporting member secured upon the transmission cover and carrying a pulley,



and a flexible member connected with said arm, trained over said pulley and connected with the brake pedal.

1,427,048. WASHBOARD. WILLIAM EDGAR ABBOTT, Bend, Oreg., assignor, by direct and mesne assignments, to Abbott Incorporated, Bend, Oreg., a Corporation of Oregon. Filed July 21, 1919, Serial No. 312,219. Renewed Jan. 27, 1922. Serial No. 532,256. 2 Claims. (Cl. 68—29.)



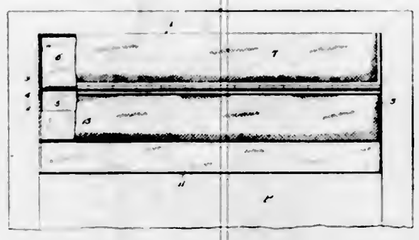
2. A washboard having a tilting panel co-operating in forming a soap box and reinforcing strips embracing the ends of the panel and having return portions forming drainage gutters and pivoting means for the panel, as and for the purposes set forth.

1,427,049. METHODS OF MANUFACTURING ARSENATE OF LEAD. AUSTIN O. ALLEN, Merchantville, N. J., assignor to John Lucas & Co. Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 29, 1921. Serial No. 481,208. 4 Claims. (Cl. 23—13.)

1. The method of manufacturing acid arsenate of lead, which consists in precipitating the arsenate of lead from a basic solution of the lead salts of acetic acid and nitric acid obtained by mixing 70% acetic acid, 40° Baumé nitric acid, and litharge in the proportions by weight of 10 to 1 to 39 respectively, with arsenic acid of approximately 65° to 70° Baumé or 58% to 63% As_2O_5.

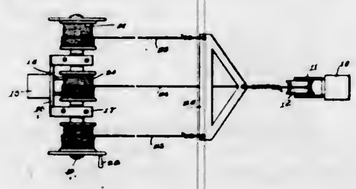
1,427,050. FLYTRAP. STENGRIM ALARTH, Osakis, Minn. Filed Mar. 26, 1921. Serial No. 455,760. 2 Claims. (Cl. 43—119.)

1. A fly trap comprising a reception and an impounding chamber with passages between them, and an entrance chamber hingedly and detachably connected communicating with said reception chamber, fly piloting



means leading to said entrance, and a fly attractor and trapper mounted in said impounding chamber.

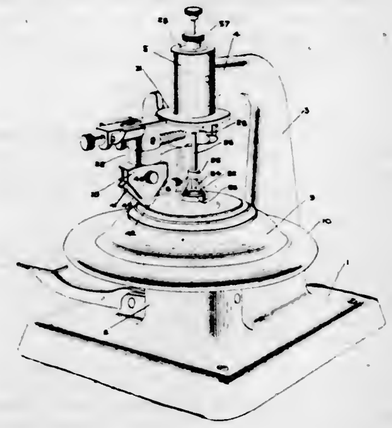
1,427,051. CLOTHESLINE. WILLIAM O. ALTMAN, Westline, Pa. Filed Sept. 13, 1920. Serial No. 409,769. 1 Claim. (Cl. 242—100.)



In a clothes line supporting device, a winding drum structure comprising a U-shaped bracket adapted to be secured upon the face of a vertical support and formed with attaching lugs, said bracket including laterally spaced horizontally extending arms carrying bearings, a shaft journally supported by said bearings in horizontal position and projecting beyond both ends of the frame, a drum on said shaft between said arms, drums secured upon the ends of said shaft outwardly of said arms, and a handle on one of said last named drums, all of said drums being of the same diameter and all being provided with retaining flanges.

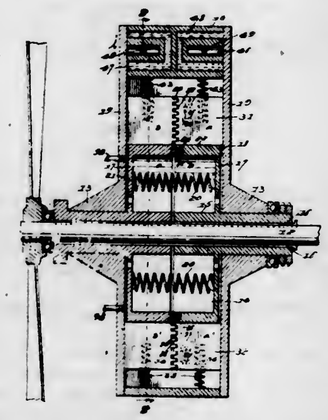
1,427,052. GLASS CUTTER. ARTHUR A. ARNOLD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 30, 1917. Serial No. 204,636. 17 Claims. (Cl. 33—28.)

1. A device of the class described including a stationary base, a rotatable member supported by the base, a non-rotatable lens support carried by the rotatable member, means on the base engaging the lens support for holding it against rotation, means for clamping a lens in fixed position upon the support, a standard supported upon the rotatable member, an arm extending outwardly therefrom, a former supported above the lens support, a cutter rotatably supported upon the outer end of said arm, a second arm carried by the standard for engagement with the former to retain the same in its operative position, and a guide member carried by the first arm for



engagement with the former whereby the cutter will travel over the lens support in a path outlined by the former.

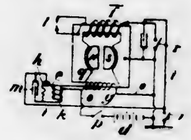
1,427,053. INTERNAL-COMBUSTION ROTARY ENGINE. EARL E. BIDWELL, Frederick, Okla., assignor of forty-five one-hundredths to Price Quesenberry, Frederick, Okla. Filed May 1, 1920. Serial No. 378,316. 7 Claims. (Cl. 123—16.)



1. A rotary internal combustion engine comprising a rotor casing having a combustion chamber formed with an inlet and outlet port leading into the rotor casing, an abutment blade disposed between the inlet and outlet ports and urged centrally, the rotor casing being formed with a fuel inlet port and a fuel outlet port and with an inwardly urged abutment blade disposed between the two ports, a rotor disposed within the casing having outwardly urged piston blades, the rotor casing on each side of the abutment blades being formed to cause the inward movement of the piston blades on the casing and permit their outward movement after the blades have passed the abutments, valves disposed on each side of the combustion chamber and controlling inlet and outlet through

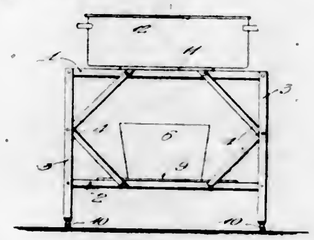
said inlet and outlet ports thereof, said valves having sliding movement into or out of their port closing position, means operated by the rotor for shifting said valves, and including a cam against which the inlet valve abuts, and means for urging the inlet valve outward, and a cam against which the outer end of the outlet valve abuts, said valve being urged outward by the explosion in the explosion chamber.

1,427,054. ELECTRICAL STARTING AND IGNITING APPARATUS. JAKOB BOHLI, Obach, Solothurn, Switzerland, assignor to The Firm Scintilla, Solothurn, Switzerland. Filed July 6, 1921. Serial No. 482,802. 2 Claims. (Cl. 123—148.)



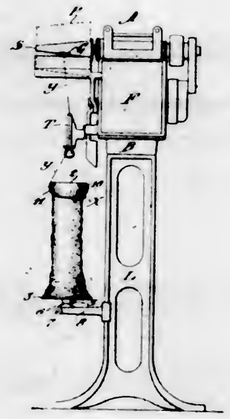
1. Apparatus for igniting internal combustion engines including a storage battery, a buzzer furnished with a tongue and a magneto ignition dynamo having a primary and a secondary winding, the tongue of the buzzer serving to make and break by means of a pair of contacts, a circuit including said battery, said buzzer, and the primary winding of said magneto, a constant magnetic field and an alternating field energized by said magneto, the said fields being arranged to coact with the tongue of the buzzer in such a manner that current flows in the said circuit only when the alternating field is in the same direction as the field generated by the current in said circuit.

1,427,055. CHARCOAL FURNACE. BESSIE BRANTLEY, Topeka, Kans. Filed Aug. 29, 1918. Serial No. 251,896. Renewed Jan. 23, 1922. Serial No. 531,312. 1 Claim. (Cl. 126—345.)



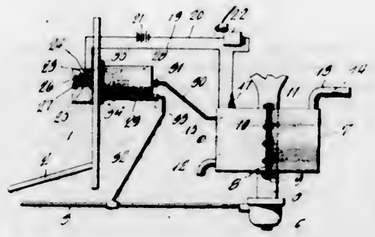
In apparatus of the character described, an upstanding frame, an upper retaining frame embodying longitudinal and transverse angle irons, a carriage mounted within the upper retaining frame to move longitudinally therein and prevented thereby from moving longitudinally out of said retaining frame, said carriage serving to support the receptacle to be heated, upper and lower sets of angle irons arranged within and extending transversely of the upstanding frame and secured thereto, a vertically adjustable support frame embodying longitudinal angle irons having their flanges near their ends bent downwardly to form stops, said vertically adjustable frame being adapted to be arranged upon either upper or lower sets of transverse angle irons and being adapted to be adjusted thereon transversely of the upstanding frame, and a plate adapted to be arranged within the longitudinal angle irons of the vertically adjustable frame and to be held against longitudinal displacement therein by said stops, said plate serving to support a charcoal furnace or the like

1,427,056. YARN-RECLAIMING DEVICE. ALBERT R. HAENS, Chicago, Ill., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 4, 1921. Serial No. 512,856. 10 Claims. (Cl. 28—17.)



1. A device for unraveling yarn or thread from articles of fabric consisting in a holder for receiving the articles in loose arrangement thereon, said holder provided with means for distending the fabric along its edge to open its mesh whereby to assist in freeing the yarn therefrom during the unraveling process.

1,427,057. MANIFOLD AERO HEATER. ARCHIE G. BRIDGFORD and SIDNEY B. BOLTON, Aledo, Ill.; said Bolton assignor to said Bridgford. Filed Apr. 29, 1921. Serial No. 465,583. 6 Claims. (Cl. 123—180.)

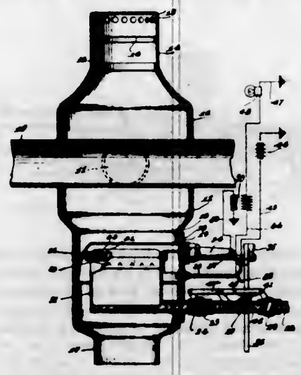


1. A device of the character described comprising a casing adapted to fit about a portion of a manifold, a heating device in the casing, and means for injecting a stream of combustible fluid through said heating means and against the manifold pipe lying within the casing.

1,427,058. MANIFOLD HEATER FOR INTERNAL-COMBUSTION ENGINES. ARCHIE G. BRIDGFORD and SIDNEY B. BOLTON, Aledo, Ill.; said Bolton assignor to said Bridgford. Filed Nov. 9, 1921. Serial No. 514,023. 6 Claims. (Cl. 123—180.)

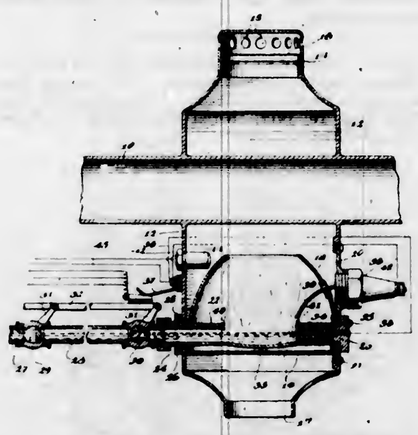
1. In a manifold heater, a casing adapted to embrace a manifold, a burner in the bottom of the casing, a perforated cap closing the upper end of the casing and having a screened partition therein, means for initially

lighting the burner, fuel supply means leading to the burner, and a manual control connected to the fuel



supply means and to said initial igniting means for alternately energizing the initial means and cutting off the supply of fuel, substantially as described.

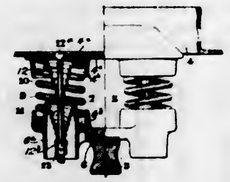
1,427,059. MANIFOLD HEATER FOR INTERNAL-COMBUSTION ENGINES. ARCHIE G. BRIDGFORD and SIDNEY B. BOLTON, Aledo, Ill.; said Bolton assignor to said Bridgford. Filed Dec. 27, 1921. Serial No. 525,106. 7 Claims. (Cl. 123—180.)



1. In a manifold heater, a casing for enclosing the manifold and having openings in its top and bottom, and at one end, a cover plate for said end, a burner tube mounted on said cover plate adapted to project into the casing for heating fuel therein, and igniting means carried by the cover plate arranged to project over the burner tube for igniting vapor produced by heating fuel.

1,427,060. ELASTIC SUSPENSION FOR VEHICLES AND OTHER BODIES IN MOTION. FERNAND LOUIS BROUSSOUSE and PAUL JULES LEBOUCHER, Paris, France. Filed Feb. 17, 1920. Serial No. 359,287. 4 Claims. (Cl. 267—60.)

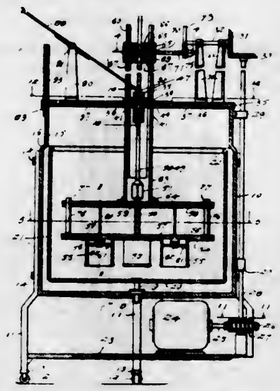
1. In a suspension device, the combination with a frame, of a stirrup supported at its center below the frame and having an apertured tubular member at each end, and a spring device between the frame and each end of the stirrup each spring device including two volute springs, the coils of which are of different heights, one spring being arranged with its base in engagement with the frame and its apex in engagement with the tubular



member of the stirrup and the other in the said tubular member with its base in engagement therewith, and a bolt carried by the frame and extending through the springs and the tubular member and provided with a nut on its lower end

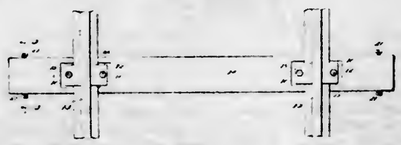
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1,427,061. WASHING MACHINE. FRANK D. BROWN, Burkburnett, Tex. Filed Nov. 22, 1920. Serial No. 425,785. 12 Claims. (Cl. 68—19.)



1. A washing machine comprising a tank, an inner receptacle within said tank, an agitating mechanism within said inner receptacle, said agitating mechanism including upper and lower discs, a supporting rod for said lower disc, said lower disc being adjustable with respect to said upper disc, means for imparting vertically reciprocating and horizontal oscillating movement to said upper disc and connections between said discs to cause oscillation of said lower disc with said upper disc.

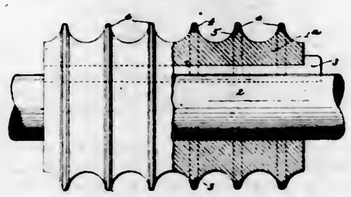
1,427,062. CROSSTIE. CHARLIE L. CAIN, Blackford, Ky., assignor of one-fourth to William D. Crowell, Marion, Ky. Filed Mar. 7, 1922. Serial No. 541,705. 2 Claims. (Cl. 238—282.)



1. In combination with a metallic tie having an opening in the upper wall thereof, of a casing insertible in each end of the tie and arranged beneath said opening, rail clamps with headed bolts, the upper wall of said

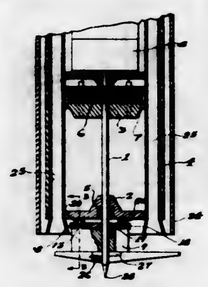
casing having oppositely disposed keyhole slots for the reception of said bolts, and means for adjusting said casing longitudinally of the tie for the purpose specified.

1,427,063. ROLL FOR ROLLING MILLS. FERDINAND MORA CANDA, New York, N. Y. Filed Dec. 1, 1919. Serial No. 341,786. 1 Claim. (Cl. 80—58.)



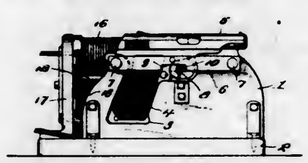
A rigid rolling mill roll, comprising a roll body having a series of contiguous grooves or troughs, and rings of harder steel shrunk thereon to constitute the ridges which separate the grooves, said ridge rings having their sides conform to the slope of the adjacent grooves to thereby form continuations thereof.

1,427,064. DRILL BIT. RALPH CAVERLY, Chicago, Ill. Filed Nov. 6, 1920. Serial No. 422,288. 8 Claims. (Cl. 255—76.)



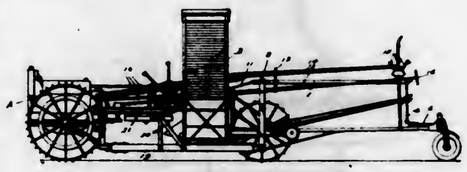
1. In a drill bit, a supporting spider, a plurality of cutters pivotally carried by said spider, means connecting said cutters to cause simultaneous movement of the cutters, and a drive shaft connected to said supporting spider.

1,427,065. BANK PROTECTIVE APPARATUS. WILLIAM FRANK CERVENKA, Traverse City, Mich. Filed Feb. 5, 1920. Serial No. 356,452. 2 Claims. (Cl. 42—1.)



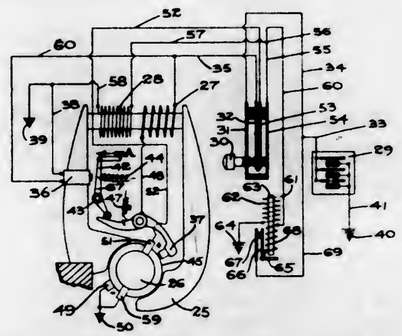
1. A device of the character described comprising a supporting block having a base, said block having a recess therein and a grooved upper edge, a gun having its barrel resting in the groove and its handle resting in the recess, a removable bar carried by the block for holding the gun in place, a bracket on the block, and actuating lever pivoted thereto and engaging the trigger of the gun.

1,427,066. TRACTOR HITCH. MILO O. CHAFFEE, Sanford, Kans. Filed July 27, 1920. Serial No. 399,221. 1 Claim. (Cl. 180—14.)



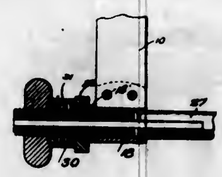
The combination with a header and a tractor connected thereto at the front end thereof, an upright frame having portions thereof secured to the axle of the header, brace rods adapted to brace said frame, said upright frame being of substantially U-shape to receive a portion of the bull wheel of the header, a bracket located on the operater's platform of the header and a slotted beam connected to the upper part of the bracket, the other end of the beam passing through a socket formed on the top of the U-frame, a brace rod having one end engaging a hole formed in the end of said beam adjacent the slot and the lower end of said brace rod suitably secured to a part of the header frame, controlling rods connected to the steering mechanism and guides formed on the beam for supporting said rods, hand levers connected to said rods and said levers being connected with a part of said bracket, an angle frame connnecting the tractor to the front of the header frame and an upright frame carried by said angle frame, bars connecting said upright frame with the tractor.

1,427,067. ENGINE-STARTING SYSTEM. WILLIAM A. CHRYST, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Sept. 19, 1917. Serial No. 192,202. 4 Claims. (Cl. 290—31.)



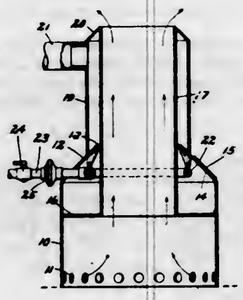
1. In an engine starting device, the combination with an engine, of a starting device therefor including a dynamo-electric-machine operable as a motor for starting purposes and having a pair of commutator brushes, one of which is normally in raised position; a reduction gearing interposed between the dynamo-electric-machine and the engine; and electro-magnetic means under control of the operator for initially connecting up the reduction gearing, so that the electric machine operating as a motor will drive the engine at a reduced speed, and for actuating said normally raised commutator brush to close the circuit connection, whereby the electric machine will operate as a motor for starting purposes.

1,427,068. HACK SAW FRAME. THOMAS CLAFFEY, New Britain, Conn. Filed Nov. 6, 1920. Serial No. 422,318. 1 Claim. (Cl. 145—34.)



In a device of the class described, a plurality of frame elements, and means for mounting a handle and one end of a blade on one of said elements of the frame, means for mounting the other end of the blade on the remaining frame element, said means last named including a rotatably mounted bar having a longitudinal slot therein, a bracket carried by one of the frame elements and apertured for receiving the bar, one end of the bracket being notched, a washer including a projection engaging the notch and including an inwardly projecting key engaging the slot in the bar, said bar being threaded at one end, a sleeve internally threaded and engaging the threaded portion of the bar, the inner end of the sleeve being adapted for engagement with the washer for clamping the latter, and a spring enclosed by said sleeve, bearing against the washer, and surrounding the bar at a point adjacent to the washer.

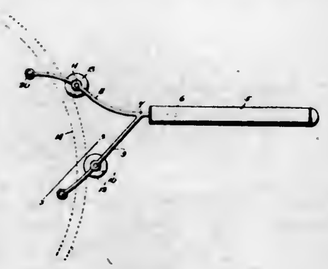
1,427,069. GAS STOVE. ALTON E. COAN, Los Angeles, Calif. Filed Feb. 14, 1921. Serial No. 444,698. 2 Claims. (Cl. 126—90.)



1. In a gas heater, a substantially cylindrical upright member through which air is adapted to pass, a substantially air tight burner chamber surrounding the lower portion of said cylindrical member, a burner ring within said air tight chamber, a substantially air tight heating chamber surrounding the upper portion of said cylindrical member and in such manner as to provide a narrow annular opening between the burner chamber and the heating chamber, a gas supply pipe connected to the burner ring, and means in the pipe for supplying air to the burner ring.

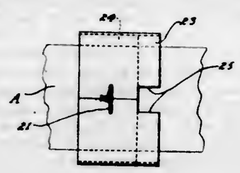
1,427,070. HOOP GUIDE. JOHN COLE, St. Louis, Mo. Filed Aug. 20, 1921. Serial No. 493,869. 1 Claim. (Cl. 46—38.)

A hoop manipulating device or guide comprising a handle, a double yoke member secured to the handle, the ends of each of said yoke members terminating in eyes, a pin and an idler or roller carried by each of the said yokes and secured within the eyes, curved arms also attached to said pin, eyes formed on the ends of said



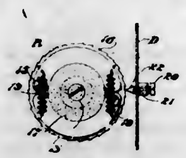
curved arms and removable pins within the ends of said curved arms for maintaining a hoop in rolling position.

1,427,071. VEHICLE SPRING LUBRICATOR. ANDREW J. COMPTON, Trenton, N. J. Filed Nov. 20, 1920. Serial No. 425,421. 3 Claims. (Cl. 184—1.)



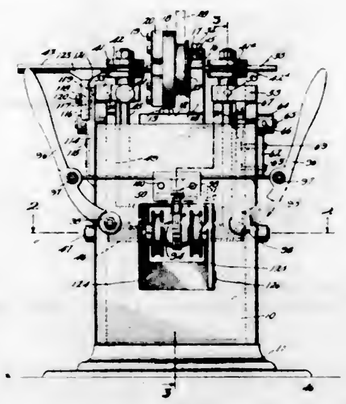
1. A lubricating device for vehicle springs comprising a strip of sheet metal, a strip of absorbent material secured thereon, the assembled strips being adapted to be bent about a vehicle spring in conforming engagement and the absorbent material being adapted for saturation by a lubricant, one edge of the absorbent strip being spaced from the edge of the metallic strip whereby to define a channel, the ends of the metallic strip being cut away to define an opening leading into said channel.

1,427,072. AUTOMOBILE HORN. CHARLES N. DALBEY, Wheatland, Calif., assignor of one-half to Clarence J. Dalbey, Wheatland, Calif. Filed Dec. 3, 1921. Serial No. 519,676. 5 Claims. (Cl. 116—59.)



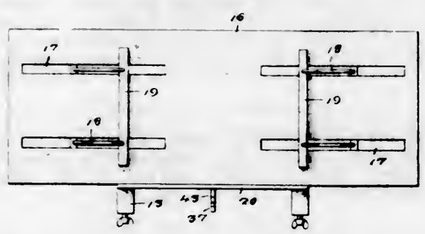
3. A vibrating horn comprising a diaphragm, a shaft, a ratchet wheel having operative engagement with the diaphragm for vibrating the latter, said wheel being loosely mounted on said shaft, a speed responsive device for operatively connecting the ratchet wheel with said shaft, a flexible shaft connected to said shaft, a rigid shaft section connected to the flexible shaft, a friction wheel fixed to the rigid section, and a casing for the rigid section adapted to be movably supported to allow of the engagement or disengagement of the friction wheel with respect to a fan belt.

1,427,073. DOWEL-MAKING MACHINE. GEORGE WILLIAM DAVIS, Putney, Vt. Filed Mar. 1, 1920. Serial No. 362,323. 8 Claims. (Cl. 142—32.)



1. In a dowel making machine, a plurality of knives supported substantially radially, means for rotating said knives, means for feeding material in one direction between said knives as they are rotated, said knives acting to form the material into a rod which is circular in cross section, means for withdrawing the material from said knives, resilient means for maintaining the material centrally located with respect to the knives, regardless of its size, and means, whereby a broken dowel may be quickly removed from said knives.

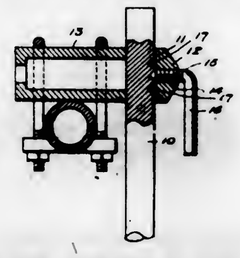
1,427,074. BOOK HOLDER. RALEIGH M. DAVIS, Ponce de Leon, Fla. Filed Dec. 3, 1921. Serial No. 519,675. 3 Claims. (Cl. 45—61.)



3. A book holder embodying a frame, a slotted face plate secured to and spaced from the frame, spring actuated leaf engaging arms extending through the slots of the plate, said arms each comprising a vertically disposed bar and spaced fingers connected to said bar and extending through the slots of the plate, a rock shaft connected to the fingers, oppositely movable slides engageable with the rock shaft, pivoted link and lever connections for each of the slides, an operating lever connected to the link and lever connections for simultaneously operating the slides to move the leaf engaging arms in a direction away from the plate and means for adjusting the arms relatively.

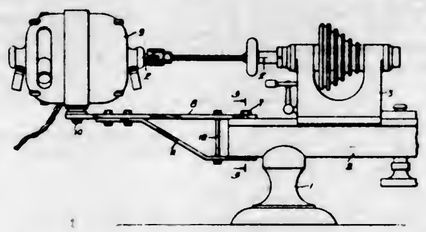
1,427,075. CULTIVATOR FOOT. JOSEPH E. DAWSON, Dodsonville, Tex. Filed May 18, 1920. Serial No. 382,241. 1 Claim. (Cl. 55—94.)

The combination with a cultivator bracket provided with a guide eye, having a threaded opening therein, of a standard slidably mounted in said eye, provided with a longitudinal series of depressions and also having a plurality of auxiliary seats disposed in angular relation to



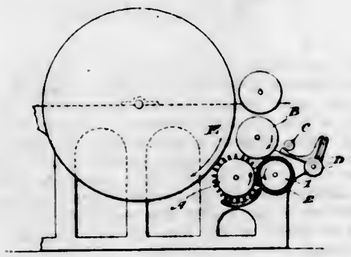
the first mentioned depressions and a cross handle having a reduced threaded end engaging the threaded opening in said eye and adapted for selective engagement with said seats or depressions.

1,427,076. LATHE ATTACHMENT. JAMES V. DILLEY, Detroit, Mich. Filed Apr. 14, 1921. Serial No. 461,250. 6 Claims. (Cl. 82—34.)



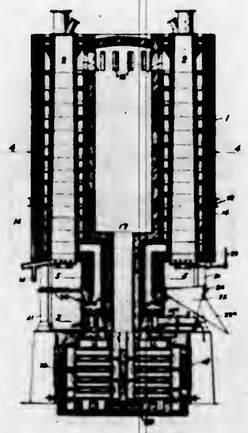
1. A lathe bed having a slot therein, a motor, a bracket to support the motor, and an adjusting means on the end of the bracket to engage in the slot and a portion of the bracket engaging beneath the edge of the bed.

1,427,077. CARDING OR STRAIGHTENING THE FIBER OF COTTON. DANIEL E. MOLLOY, Fall River, Mass., assignor, of one-half to James K. Lanning, Fall River, Mass. Filed Aug. 12, 1920. Serial No. 403,006. 1 Claim. (Cl. 19—105.)



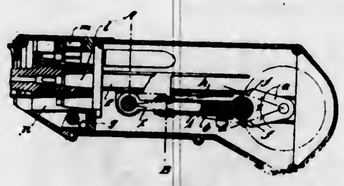
In a carding machine, in combination with the feed table, thereof, a licker in arranged adjacent to the feed table and in front thereof, a stripper roll below the licker in, a rotatable cleaner roll arranged below the table and below the licker in and adjacent to the stripper roll, and means to rotate the cleaner roll at a speed to remove foreign matter from the stripper roll and to maintain the latter clean.

1,427,078. VERTICAL-RETORT GAS-MAKING APPARATUS. ROBERT M. SEARLE, Rochester, N. Y., assignor to The U. G. I. Contracting Company, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 23, 1919. Serial No. 325,631. 4 Claims. (Cl. 48—113.)



4. In a vertical retort gas making apparatus the combination of an annular retort chamber, a ring of straight retorts arranged in the chamber and each provided with vertical partitions extending to the inner and outer walls of said chamber and dividing it into a series of independent retort chambers, a combustion chamber sub-divided into a series of combustion chambers communicating with the chambers of the series of retort chambers, means for regulating combustion in the chambers, and horizontal baffle plates in each of the retort chambers, substantially as described.

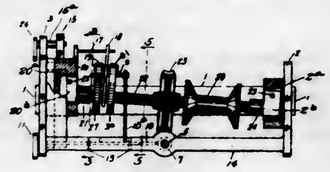
1,427,079. CRANK-OPERATING GEAR FOR MOVING THE BREECH IN MACHINE GUNS. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands. Filed Sept. 1, 1920. Serial No. 407,539. 2 Claims. (Cl. 89—11.)



2. In a breech block mechanism for machine guns, a rotating crank, a connecting rod connecting the operating crank with the breech block, divided into two parts, one sliding axially within the other, and a spring holding the two parts extended as far as allowed by the relative positions of the crank and the breech block.

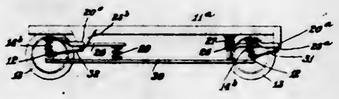
1,427,080. AUTOMOBILE ATTACHMENT. GAETANO LOFORESE, Greenwich, Conn. Filed June 18, 1921. Serial No. 478,687. 6 Claims. (Cl. 254—166.)

1. In combination, a power shaft, a driven shaft, a worm splined on said power shaft having a right hand thread at one end and a left hand thread at the other, a worm wheel on said driven shaft adapted for engagement selectively with the threads of the worm, a tilting bearing supporting one end of the driven shaft, a second tilting bearing supporting the other end of the driven shaft, means to support the second bearing to permit movement of the worm wheel into and out of engagement with the worm, means to move the support of the second bearing



and means to shift the worm along the power shaft whereby to bring its ends selectively into position for engagement by the worm wheel.

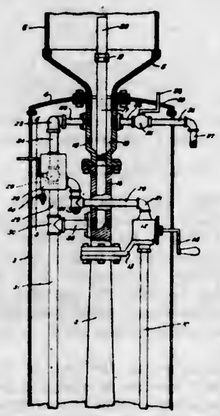
1,427,081. VEHICLE SUSPENSION. WILLIAM R. WILLIAMS, Philadelphia, Pa. Original application filed Nov. 7, 1921, Serial No. 513,354. Divided and this application filed May 19, 1922. Serial No. 562,271. 18 Claims. (Cl. 267—20.)



6. A vehicle suspension including, in combination, elastic means transversely disposed upon the vehicle supporting means, a third elastic means positioned adjacent to the same, a rigid member rotatable crosswise of the suspended portion of the vehicle substantially in parallelism therewith, and levers extending from said member into opposing engagement with the said third elastic means and the first named elastic means.

REISSUES.

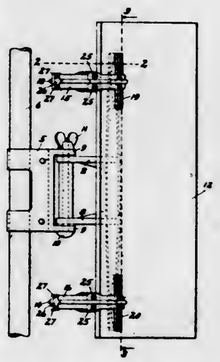
15,432. GASOLINE-DISPENSING DEVICE. EMORY CROUSE, Wichita, Kans., assignor to The Clear Vision Pump Company, a Corporation of Kansas. Filed Feb. 8, 1921. Serial No. 443,451. Original No. 1,304,028, dated May 20, 1919, Serial No. 247,264, filed July 29, 1918. 6 Claims. (Cl. 221—99.)



1. A liquid-dispensing device comprising a container, an overflow conduit extending into and terminating at the

upper portion of said container, a discharge pipe communicating with said container, means for supplying liquid to said supply pipe, and valved means establishing communication between said container and said overflow conduit.

15,433. WINDSHIELD ATTACHMENT. GEORGE GLAUDEL, Los Angeles, Calif., assignor of one-half to George L. Mitchell, Santa Monica, Calif. Filed July 14, 1921. Serial No. 484,779. Original No. 1,346,402, dated July 13, 1920, Serial No. 298,184, filed May 19, 1919. 8 Claims. (Cl. 296—84.)



8. In a wind-deflector for windshields, a wind deflecting plate, a bracket bearing against one side of said plate, a fixed arm on said bracket extending beyond one edge of said plate, a clamping bar engaging the other side of said plate and opposite to said bracket, said clamping bar being pivoted on said fixed arm, and means for moving the inner end of the clamping bar toward said bracket whereby the said plate may be firmly held between the clamping bar and said bracket.

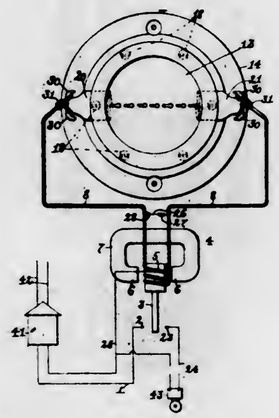
15,434. PROCESS OF MANUFACTURING ACETALDEHYDE. HOWARD W. MATHESON, Montreal, Quebec, Canada. Filed May 5, 1922. Serial No. 558,814. Original No. 1,384,842, dated July 19, 1921, Serial No. 204,008, filed Nov. 26, 1917. 5 Claims. (Cl. 260—139.)

1. A process for the manufacture of acetaldehyde, which comprises passing acetylene through an acid solution of not greater than 6% concentration containing an oxide of mercury, and maintaining a temperature below 66° C. and a pressure below 2 lbs. per sq. in. superatmospheric.

15,435. METHOD OF RECOVERING MANGANESE STEEL. WESLEY G. NICHOLS, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Dec. 17, 1921. Serial No. 523,191. Original No. 1,291,656, dated Jan. 14, 1919, Serial No. 237,426, filed May 31, 1918. Continuation of applications Serial Nos. 91,118, filed Apr. 14, 1916, and 152,107, filed Mar. 2, 1917. 9 Claims. (Cl. 75—45.)

1. The improvement in the art of recovering manganese steel, which consists in applying heat to the steel at an initial temperature below the oxidising temperature of manganese, and at successively increasing stages of temperature until the entire mass is gradually brought to the melting point of manganese steel.

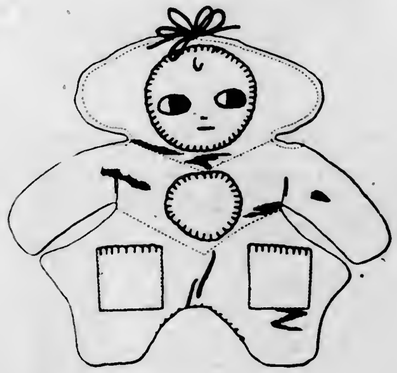
15,436. AUTOMATIC FIRE ALARM. FREDERICK A. SWAN, Cliftondale, Mass. Filed Aug. 25, 1920. Serial No. 405,969. Original No. 1,326,304, dated Dec. 30, 1919, Serial No. 178,121, filed July 2, 1917. 7 Claims. (Cl. 177—358.)



7. In a fire alarm system, the combination with a thermo-electric battery, of a sensitive relay in circuit with said battery, and a permanently closed electric battery shunt connected across the terminals of the relay and of relatively higher resistance than said circuit, for the purpose specified.

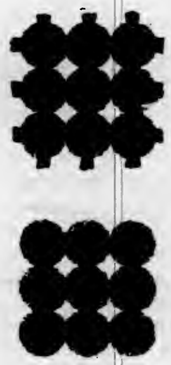
DESIGNS.

61,384. QUILTED DOLL. LILLIAN S. AHRENS, New York, N. Y. Filed May 27, 1922. Serial No. 2,439. Term of patent 7 years.



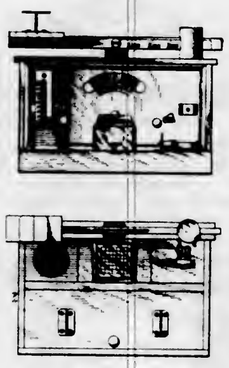
The ornamental design for a quilted doll as shown.

61,385. NETTED FABRIC. HERMAN F. BETKE, Okmulgee, Okla. Filed May 17, 1922. Serial No. 2,285. Term of patent 14 years.



The ornamental design for a netted fabric, as shown.

61,386. COMBINATION INKWELL, CALENDAR, AND DESK RACK. WILLIS H. COLBY, Detroit, Mich. Filed May 9, 1922. Serial No. 2,153. Term of patent 14 years.



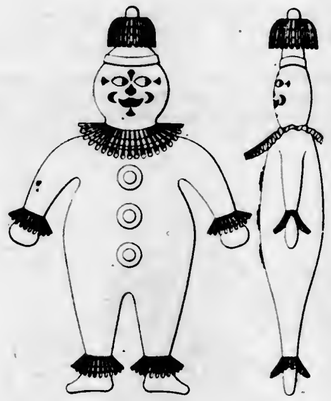
The ornamental design for a combination inkwell, calendar, and desk rack, as shown.

61,387. INFLATABLE DOLL OR SIMILAR ARTICLE. FRANK W. DODGE, New Haven, Conn., assignor to The Seamless Rubber Company, Inc., New Haven, Conn., a Corporation of Massachusetts. Filed Apr. 1, 1922. Serial No. 1,480. Term of patent 14 years.



The ornamental design for an inflatable doll or similar article, substantially as shown.

61,388. INFLATABLE DOLL OR SIMILAR ARTICLE. FRANK W. DODGE, New Haven, Conn., assignor to The Seamless Rubber Company, Inc., New Haven, Conn., a Corporation of Massachusetts. Filed May 22, 1922. Serial No. 2,352. Term of patent 14 years.



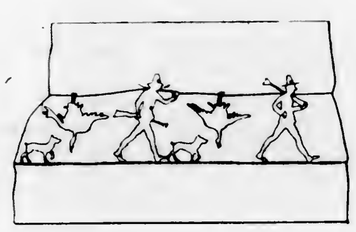
The ornamental design for an inflatable doll or similar article substantially as shown.

61,389. PAPER. CLARA H. HAVEMEYER, Springfield, Mass., assignor to Package Paper and Supply Corporation, a Corporation of Massachusetts. Filed Jan. 20, 1922. Serial No. 282. Term of patent 3½ years.



The ornamental design for paper, as shown.

61,390. PAPER. CLARA H. HAVEMEYER, Springfield, Mass., assignor to Package Paper and Supply Corporation, a Corporation of Massachusetts. Filed Jan. 20, 1922. Serial No. 283. Term of patent 3½ years.



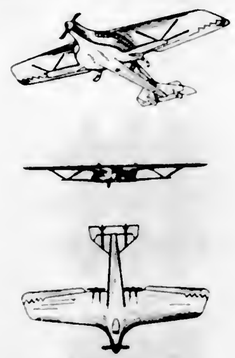
The ornamental design for paper, as shown.

61,391. PAPER. CLARA H. HAVEMEYER, Springfield, Mass., assignor to Package Paper and Supply Corporation, a Corporation of Massachusetts. Filed Jan. 20, 1922. Serial No. 284. Term of patent 3½ years.



The ornamental design for paper, as shown.

61,392. AVIATOR-OPERATED AIRPLANE. JAMES D. HILL, Scottdale, Pa. Filed Apr. 16, 1921. Serial No. 462,035. Term of patent 14 years.



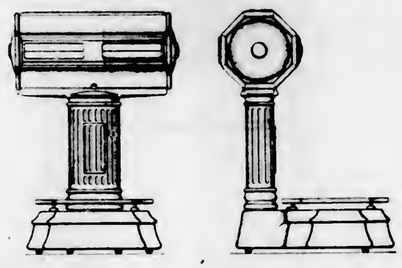
The ornamental design for an aviator operated airplane substantially as shown.

61,393. SMOKER'S STAND. AUGUST JOHNSON, Mankato, Minn. Filed Feb. 6, 1922. Serial No. 556. Term of patent 14 years.



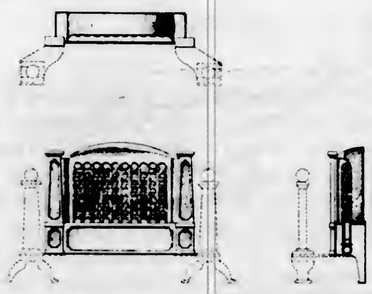
The ornamental design for a smoker's stand, as shown.

61,394. COMPUTING SCALE. GEORGE M. LUDLOW, Evanston, Ill., assignor to Sanitary Scale Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 11, 1922. Serial No. 165. Term of patent 14 years.



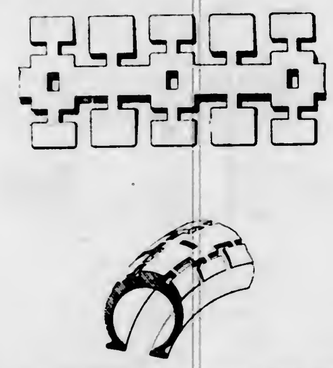
The ornamental design for a computing scale as shown.

61,395. GAS HEATER. DONALD H. MCCORKLE, Oakland, Calif. Filed Dec. 22, 1920. Serial No. 432,624. Term of patent 3½ years.



The ornamental design for a gas heater as shown.

61,396. TIRE TREAD. HAROLD D. MITCHELL, Brooklyn, N. Y., assignor to C. Kenyon Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,663. Term of patent 14 years.



The ornamental design for a tire tread substantially as shown.

61,397. FINGER RING. PHILIP PHOEL, New York, N. Y. Filed Apr. 30, 1921. Serial No. 465,837. Term of patent 3½ years.



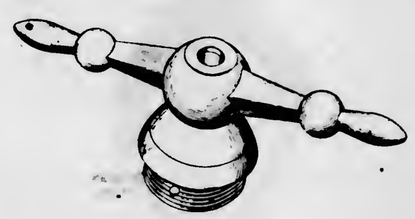
The ornamental design for a finger ring, as shown.

61,398. FINGER RING. PHILIP PHOEL, New York, N. Y. Filed Apr. 30, 1921. Serial No. 465,838. Term of patent 3½ years.



The ornamental design for a finger ring, as shown and described.

61,399. AUTOMOBILE RADIATOR CLOSURE. RICHARD PREISS, Chicago, Ill. Filed Jan. 13, 1922. Serial No. 190½. Term of patent 3½ years.



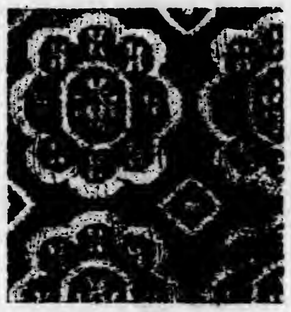
The ornamental design for an automobile radiator closure as shown.

61,400. PAPER WEIGHT. HARRY A. ROSS, Pittsburgh, Pa. Filed Mar. 25, 1922. Serial No. 1,389. Term of patent 3½ years.



The ornamental design for a paperweight, as shown.

61,401. LACE. BARNET SHAPIRO, Sea Gate, N. Y., assignor to Hightstown Mfg. Co., Inc., Hightstown, N. J., a Corporation of New Jersey. Filed Apr. 26, 1922. Serial No. 1,971. Term of patent 14 years.



The ornamental design for lace, as shown.

61,402. FINGER RING OR SIMILAR ARTICLE. CHARLES LINCOLN TROUT, New York, N. Y. Filed June 30, 1920. Serial No. 393,195. Term of patent 14 years.



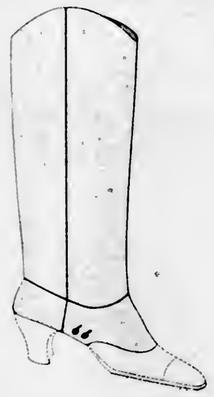
The ornamental design for a finger ring or similar article as shown.

61,403. RADIATOR-CAP ORNAMENT FOR AUTOMOBILES. JOHN TUOMEY, New York, N. Y. Filed May 28, 1921. Serial No. 473,407. Term of patent 3½ years.



The ornamental design for a radiator cap ornament for automobiles, as shown.

61,404. BOOT TOP. CHARLES TWEEDIE, Jefferson City, Mo. Filed Apr. 3, 1922. Serial No. 1,519. Term of patent 14 years.



The ornamental design for a boot top, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 22, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 98,121. (CLASS 33. GLASSWARE.) POPE CUT GLASS COMPANY INC., New York, N. Y. Filed Sept. 20, 1916.

DIAMONKUT

Particular description of goods.—Cut-Glass Articles.
Claims use since July 15, 1916.

Ser. No. 112,655. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPEVERDIAN TRADING COMPANY, East Wareham, Mass. Filed Aug. 10, 1918.



Particular description of goods.—Roasted and Ground Cereals for Use as a Breakfast Food.
Claims use since Jan. 3, 1918.

Ser. No. 123,082. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM FREIHOFER BAKING CO., Wilmington, Del. Filed Nov. 19, 1919.

Freihofer's



No claim is made to the words "Just Right" apart from the mark shown in drawing. Trade-mark consists of the word "Freihofer's," in script, and the words "Tosty Bread" on a red background carried on a blue ribbon.
Particular description of goods.—Bread.
Claims use since Feb. 1, 1919.

Ser. No. 128,263. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE AUD COMPANY, INC., Herndon, Va. Filed Feb. 11, 1920.



No claim is made to the words "Life Saving Suit" and "Trade-Mark Registered" and to the illustration appearing on the mark except as associated with the other features thereof.
Particular description of goods.—Life-Saving Suits.
Claims use since Feb. 5, 1920.

Ser. No. 130,174. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KEMP & BEATLEY, INC., New York, N. Y. Filed Mar. 25, 1920.



Particular description of goods.—Tablecloths, Doilies, and Mat Covers.
Claims use since Jan. 1, 1919.

Ser. No. 131,371. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. L. ADDEN, Mullins, S. C. Filed Apr. 20, 1920.

Ad-Tone

Particular description of goods.—Salves for Skin Diseases.
Claims use since March, 1919.

Ser. No. 131,578. (CLASS 12. CONSTRUCTION MATERIALS.) THE HEPPES-NELSON ROOFING COMPANY, Chicago, Ill., assignors to The Richardson Company, Lockland, Ohio, a Corporation of Ohio. Filed Apr. 24, 1920.

FLEX-A-TILE

Trade-mark "Flex-A-Tile."
Particular description of goods.—Prepared Roofing in the Form of Sheets, Rolls, Strips, Shingles, and Coatings; Building Board and Building Paper, Expansion Joints for Roads and Floors, Cements for Repairing and Laying Prepared Roofing, Weather and Water Proof Coatings Sold in Plastic Form for Use on and Around Roofs and Walls.
Claims use since Jan. 1, 1911.

Ser. No. 131,797. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE JACOB LAUB BAKING CO., Cleveland, Ohio. Filed Apr. 29, 1920.

PURETAN

Particular description of goods.—Bread.
Claims use since Mar. 31, 1920.

Ser. No. 132,129. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE THEOBALD FLOUR MILLS CO., Northfield, Minn. Filed May 6, 1920.



Particular description of goods.—Wheat Flour.
Claims use since about July 21, 1919.

Ser. No. 132,517. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DESCHAPELLES, COLLINS & CO., INC., New York, N. Y. Filed May 17, 1920.

DESCO

Particular description of goods.—Vegetables—Namely, All Varieties of Edible Beans in Their Natural State.
Claims use since Apr. 1, 1920.

Ser. No. 132,535. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) JENKINS VULCAN SPRING CO., Richmond, Ind. Filed May 17, 1920.



No claim is made to the pictures of the springs and the words "Quality Automobile Springs in Stock for Your Cars" apart from the rest of the mark.
Particular description of goods.—Automobile Springs of the Leaf Type.
Claims use since 1914.

Ser. No. 133,989. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) SEALRIGHT COMPANY, INC., Fulton, N. Y. Filed June 21, 1920.

SEALRIGHT

Particular description of goods.—Closure Disks for Bottles and Other Containers.
Claims use since about Nov. 15, 1918.

Ser. No. 134,477. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANLEY MORIN, doing business as Instant Carbon Remover Company, Corona, N. Y., and Instant Products Corporation, Boston, Mass. Filed July 1, 1920.

Instant

The word "Instant" is disclaimed apart from the mark shown.
Particular description of goods.—Chemical Carbon Remover and Chemical Grease and Stain Remover.
Claims use since Oct. 1, 1919.

Ser. No. 136,725. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RED STAR MILLING COMPANY, Wichita, Kans. Filed Sept. 1, 1920.



The words "Harina De Trigo" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Wheat Flour.
Claims use since July 8, 1915.

Ser. No. 137,651. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) APCO MANUFACTURING COMPANY, Providence, R. I. Filed Sept. 27, 1920.

APCO

Trade-mark "Apco."
Particular description of goods.—Antirattlers, Brake-Rod Supports, Axle Braces, License Brackets, Steering-Column Braces, Trusses, Braces, Running-Board Supports, Brake-Rod Supports, Brake Shoes, Brake Adjusters, Pedal Pads, Bow Clamps, Brake Handles, Tire Holders, Rear-View Mirrors, and Windshield Ventilators.
Claims use since 1910.

Ser. No. 137,936. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE GRAIN & MILLING COMPANY, Los Angeles, Calif. Filed Oct. 5, 1920.

GLOBE

"A1"

Particular description of goods.—Wheat Flour, Macaroni, Spaghetti, Noodles, Vermicelli, Corn Meal, Graham Flour, Whole-Wheat Flour, Health Bran, Wheat Flakes, Pastry Flour, Farina, Rolled Oats, Steel-Cut Oatmeal, Cracked Wheat, Hominy, Rye Flour, Rye Meal, Pancake Flour, Refined Vegetable Oils for Cooking and Salads, Hydrogenated Vegetable Oils for Shortening, Hominy Grits.
Claims use since 1898.

Ser. No. 141,588. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD CO., Cambridge, Mass. Filed Dec. 28, 1920.

COLLEGE

Trade-mark "College."
Particular description of goods.—Sugar Wafers.
Claims use since Oct. 21, 1916.

Ser. No. 141,722. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) K. HOEFELMAYR, doing business as K. Hoefelmayr Edelweiss Camembert Fabrik, Kempten, Bavaria, Germany. Filed Dec. 31, 1920.



Edelweiss

Fleur de Neige

Particular description of goods.—Cheese, Butter, Milk, Milk Reduced to Powder, Condensed Milk, Milk Sugar, Mixtures of Milk Powder with Malt, Coffee, Cocoa, Flour and Whey Powder.
Claims use since 1892.

Ser. No. 142,995. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed Jan. 31, 1921.

NATIONAL

Particular description of goods.—Biscuit.
Claims use since Dec. 11, 1911.

Ser. No. 143,081. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURBERRYS LIMITED, London, England. Filed Feb. 2, 1921.

BURELLA.

Particular description of goods.—Cloths of Wool, Worsted, and Hair in the Piece.
Claims use since Oct. 21, 1909.

Ser. No. 143,340. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOOTS PURE DRUG COMPANY, LTD., Nottingham, England. Filed Feb. 9, 1921.

CENTOIDS

Trade-mark "Centoids."
Particular description of goods.—Toning and Fixing Solutions, Intensifiers, Developers, All Used in Photography.
Claims use since Mar. 19, 1914.

Ser. No. 143,341. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOOTS PURE DRUG COMPANY, LTD., Nottingham, England. Filed Feb. 9, 1921.

LAUDERETTES

Particular description of goods.—Throat Tablets.
Claims use since Dec. 21, 1918.

Ser. No. 143,342. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOOTS PURE DRUG COMPANY, LTD., Nottingham, England. Filed Feb. 9, 1921.

NASOTONE

Trade-mark "Nasotone."
Particular description of goods.—Remedies for Colds, Coughs, Catarrh, and Inflammations.
Claims use since Oct. 2, 1918.

Ser. No. 143,343. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOOTS PURE DRUG COMPANY, LTD., Nottingham, England. Filed Feb. 9, 1921.

'CACHULES'

Trade-mark "Cachules."
Particular description of goods.—Remedy or Relief in Case of Seasickness, Train Sickness, and Nausea.
Claims use since Jan. 11, 1912.

Ser. No. 143,344. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOOTS PURE DRUG COMPANY, LTD., Nottingham, England. Filed Feb. 9, 1921.

Elfin

Trade-mark "Elfin."
Particular description of goods.—Deodorants.
Claims use since Jan. 18, 1917.

Ser. No. 143,345. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOOTS PURE DRUG COMPANY, LTD., Nottingham, England. Filed Feb. 9, 1921.

REDUSOIDS

Trade-mark "Redusoids."
Particular description of goods.—Obesity and Antifat Remedies.
Claims use since Apr. 29, 1915.

Ser. No. 143,360. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SOL LEVINSON, San Francisco, Calif. Filed Feb. 9, 1921.



No claim is made to a fighting or boxing glove apart from the mark shown. The trade mark consists of a facsimile signature, which in the accompanying drawing is shown on a picture of a fighting glove.
Particular description of goods.—Boxing and Fighting Gloves.
Claims use since Jan. 1, 1921.

Ser. No. 143,820. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD COMPANY, Cambridge, Mass. Filed Feb. 19, 1921.

ELI

Trade-mark "Eli."
Particular description of goods.—Sugar Wafers.
Claims use since Feb. 2, 1920.

Ser. No. 143,821. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHNSON EDUCATOR FOOD COMPANY, Cambridge, Mass. Filed Feb. 19, 1921.

TECH

Trade-mark "Tech."
Particular description of goods.—Sugar Wafers.
Claims use since Feb. 2, 1920.

Ser. No. 144,672. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FISHER FLOURING MILLS COMPANY, Seattle, Wash. Filed Mar. 12, 1921.



NINE SUN BRAND

No claim is made to the "Chinese characters" apart from the mark shown in the drawing. The word "Brand" is also disclaimed.
Particular description of goods.—Wheat Flour.
Claims use since Dec. 6, 1920.

Ser. No. 145,357. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. H. PERFECT & Co., Fort Wayne and Huntington, Ind., and Sturgis, Mich. Filed Mar. 28, 1921.

PERFECT

A P & Co

Particular description of goods.—Wheat Flour, Rolled Oats, Coffee, Tea, Corn Sirup, Molasses, Tomato Catsup, Fruit Jelly, Prepared Mustard, Olives, Applebutter, Evaporated Milk, Canned Cove Oysters, Canned Salmon, Tapioca, Rice, Macaroni, Canned Pork and Beans, Canned Fruits and Canned Vegetables, Canned Hominy, Canned Sauerkraut, Canned Mixed Vegetables.
Claims use since 1904.

Ser. No. 145,428. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALMO PRODUCTS CO. INC., New York, N. Y. Filed Mar. 30, 1921.

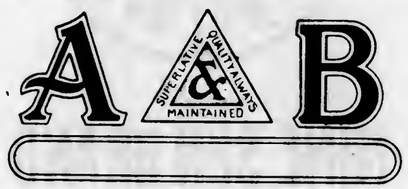
ALMO BRAND

No claim is made to the word "Brand" apart from the mark shown in drawing.

Particular description of goods.—Flavors, Extracts, and Emulsions for Food Purposes; Pie-Filling Powders, Pudding Powders, Egg-Whip Powders, Icing Pastes, Cocoa Powder, and Milk Powder.

Claims use since Jan. 1, 1919.

Ser. No. 145,488. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. AUGENBLICK & BRO., Newark, N. J. Filed Mar. 31, 1921.



The words "Superlative," "Quality Always," and "Maintained" as a part of the trade-mark are hereby disclaimed.

Particular description of goods.—Butter, Eggs, Lard, and Dressed Poultry.

Claims use since Jan. 1, 1908.

Ser. No. 146,090. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, by Nicolas Alfred Fernand George, (administrator), Montrouge, near Paris, France. Filed Apr. 12, 1921.

LION NOIR

Particular description of goods.—Furniture and Floor Polishes and Waxes, Preservatives in the Nature of Paint and Wax for Furniture, Parquet Flooring, Wainscoting, Marble, Varnished or Painted Surfaces, and Paintings; Coloring Ingredients and Waxes for Encaustic Painting.

Claims use since May, 1884.

Ser. No. 146,923. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NUTROSE COMPANY, INC., Wilmington, Del., and Philadelphia, Pa. Filed Apr. 28, 1921.

Nutrose
TRADE MARK
THE BACKBONE OF BREAD

The words "Trade-mark" and the phrase "The Backbone of Bread" are hereby disclaimed as a part of the trade-mark sought.

Particular description of goods.—Yeastlike Bread-Making Composition.

Claims use since Mar. 2, 1921.

Ser. No. 147,094. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DENNOS FOOD CO. OF PORTLAND, Portland, Oreg. Filed May 2, 1921.



No claim is made to the word "Food" apart from the mark shown in drawing. The picture on drawing is fanciful.

Particular description of goods.—Whole-Wheat Milk Food.

Claims use since March, 1921.

Ser. No. 147,129. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHULZE BAKING COMPANY, Chicago, Ill. Filed May 2, 1921.

HONEY GIRL

Particular description of goods.—Bread.

Claims use since Feb. 14, 1921.

Ser. No. 147,443. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. E. MURPHY & Co., Eagle Pass, Tex. Filed May 9, 1921.

AMERICAN



Particular description of goods.—Wheat Flour.

Claims use since December, 1919.

Ser. No. 147,661. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CLARK CAR COMPANY, Pittsburgh and Johnstown, Pa. Filed May 13, 1921.



Particular description of goods.—Dump Cars.

Claims use since April, 1914.

Ser. No. 147,923. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE GRAND JUNCTION MINING & FUEL COMPANY, Denver, Colo. Filed May 19, 1921.

CAMEO

Particular description of goods.—Bituminous Coal.

Claims use since about 1912.

Ser. No. 148,042. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass. Filed May 21, 1921.

UNION

Trade-mark "Union."

Particular description of goods.—Ink, Dye, or Stain Used in the Manufacture and Repairing of Boots and Shoes.

Claims use since 1912.

Ser. No. 148,165. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE ROGER & GALLET, Paris, France. Filed May 24, 1921.

FLEURS D'AMOUR



Particular description of goods.—Pastes and Powders for Beautifying and Preserving the Teeth, Skin, and Hair, and Perfumery.

Claims use since November, 1903.

Ser. No. 148,809. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN H. MULHOLLAND, Philadelphia, Pa. Filed June 7, 1921.

HollaBallo

Particular description of goods.—Cakes, Cakes Especially Molded for Holding and Serving Ice Cream and Frozen Desserts, Combinations of Ice Cream and Cake—Namely, Cakes Containing Exposed Ice Cream.

Claims use since May 15, 1921.

Ser. No. 149,100. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RAYMOND H. SHERMAN, Cleveland, Ohio. Filed June 13, 1921.

WHITE WAY

Particular description of goods.—Shoe Dressing.

Claims use since Mar. 15, 1921.

Ser. No. 149,719. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PEARSON PIANO COMPANY, Indianapolis, Ind. Filed June 27, 1921.

MALGO

Particular description of goods.—Varnish Healer and Restorer.
Claims use since May 5, 1921.

Ser. No. 150,733. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARTAGENA & MAYRO, New York, N. Y. Filed July 21, 1921.

TORRE DEL ORO

Particular description of goods.—Anchovies in Salt and in Olive Oil, Canned Vegetables, Olive Oil, Canned Pimentos, and Canned Artichokes.
Claims use since June 15, 1921.

Ser. No. 151,246. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALLEN FLOUR COMPANY, San Francisco, Calif. Filed Aug. 2, 1921.

EAT MORE BREAD



The representation of a loaf of bread does not form a part of the registration sought apart from the mark shown in drawing; no claim to the word "Bread" apart from the mark shown in drawing.
Particular description of goods.—Bread.
Claims use since Mar. 15, 1921.

Ser. No. 151,712. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUTH, GILLESPIE & COMPANY, INC., New York, N. Y. Filed Aug. 12, 1921.



No claim being made to the words "Olio Extra Prima Qualita, Semenza Di Cotone, Genova, Polo Artico, Polo Antar Oceano Atlanti, Oceano Pacifico, America Del Sud and America Del Nord" apart from the mark shown in the drawing.
Particular description of goods.—Cottonseed Oil for Food Purposes.
Claims use since 1920.

Ser. No. 152,027. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. D. MILLER, Millersburg, Ohio. Filed Aug. 22, 1921.

VICTORIA

Particular description of goods.—Wheat Flour.
Claims use since July, 1885.

Ser. No. 152,189. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ST. PAUL MILLING CO., St. Paul, Minn. Filed Aug. 25, 1921.

KOMO

Particular description of goods.—Wheat Flour.
Claims use since Oct. 1, 1916.

Ser. No. 152,226. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ACME CRACKER CO., Chicago, Ill. Filed Aug. 27, 1921.

Laddie

Particular description of goods.—Cakes.
Claims use since July 23, 1921.

Ser. No. 152,475. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEWFOUNDLAND FISH PRODUCTS, LIMITED, London, England. Filed Sept. 1, 1921.



The words "Newfoundland" and "Brand" are hereby disclaimed.
Particular description of goods.—Smoked Cod Fillets, Preserved Flaked Fish, Fish Paste, and Fish Sausages.
Claims use since Sept. 30, 1920.

Ser. No. 152,564. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ITEN BISCUIT CO., Omaha, Nebr. Filed Sept. 3, 1921.



Particular description of goods.—Cakes.
Claims use since June 30, 1921.

Ser. No. 152,585. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PODESTA IMPORT COMPANY, San Francisco, Calif. Filed Sept. 3, 1921.

BOB'S

Particular description of goods.—Mushrooms in Oil, Olive Oil, Canned Fish, Mushroom Sauce, Dry Mushrooms, Concentrated Tomato Paste, Chestnut Flour, Macaroni, Canned Fruits, Canned Vegetables, Jellies, Olives, Fresh Fruits, Cheese, and Antipasto—Namely, an Appetizer Prepared from Such Foods as Anchovies, Sardines, Mushrooms, Pickles, and Olives Combined with a Sauce in Different Ways of Preparing and Then Flavored and Canned.
Claims use since May 23, 1921.

Ser. No. 152,762. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILTON LIGGETT, Seymour, Iowa. Filed Sept. 9, 1921.



The illustration of the sun and its rays, and the worm are of color red.
Particular description of goods.—Chicken Feed.
Claims use since Apr. 2, 1921.

Ser. No. 152,788. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPE COUNTY MILLING COMPANY, Jackson, Mo. Filed Sept. 10, 1921.

SAILOR GIRL

Particular description of goods.—Self-Rising Flour.
Claims use since July, 1911.

Ser. No. 152,794. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FISHER FLOURING MILLS COMPANY, Seattle, Wash. Filed Sept. 10, 1921.



No claim is made to the word "Blend" apart from the mark shown in drawing.
Particular description of goods.—Wheat Flour.
Claims use since May 6, 1911.

Ser. No. 153,078. (CLASS 17. TOBACCO PRODUCTS.) ALFRED DUNHILL, London, England, assignor to Alfred Dunhill of London, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 19, 1921.



The trade-mark consists of the words "My Mixture" written in a distinctive manner and inclosed in a rectangular border of conventional foliage design.

Particular description of goods.—Smoking Tobacco.

Claims use since January, 1910.

Ser. No. 153,095. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MOTOR WHEEL CORPORATION, Lansing, Mich. Filed Sept. 19, 1921.



No claim is made for the exclusive use of the words "Steel Wheels" apart from the surroundings shown.

Particular description of goods.—Load-Carrying Wheels.

Claims use since May 21, 1921.

Ser. No. 153,131. (CLASS 43. THREAD AND YARN.) I. DANIEL & SONS, New York, N. Y. Filed Sept. 20, 1921.



Particular description of goods.—Knitting and Crocheting Artificial Silk, Threads, and Yarns.

Claims use since January, 1921.

Ser. No. 153,224. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTH ATLANTIC OYSTER FARMS, INC., South Norwalk, Conn. Filed Sept. 22, 1921.

SEALSHIPT

Particular description of goods.—Oysters in Their Natural State and Canned Oysters.

Claims use since prior to 1908.

Ser. No. 153,374. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Sept. 26, 1921.

CONY

Particular description of goods.—Petroleum and Products of Petroleum With or Without Admixture of Other Materials for Illuminating, Heating, Power, Burning, Lubricating, Greasing, Solvent, Sealing, Waxing, Waterproofing, Coating, Rust Preventing, Surface Preserving, and Tempering.

Claims use since July 15, 1921.

Ser. No. 153,399. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOMEZ & SLOAN, INC., New York, N. Y. Filed Sept. 27, 1921.

GONESLOAN

Particular description of goods.—Canned Salmon, Canned Peas, Canned Condensed Milk, Wheat Flour, Corn Flour, Maize Flour, Rye Flour; Corn Whole, Cracked, and Ground; Suncured Vanilla Beans, Coffee, and Food-Flavoring Extracts.

Claims use since February, 1919.

Ser. No. 153,571. (CLASS 39. CLOTHING.) DAVE W. SAIFER, Chicago, Ill. Filed Sept. 30, 1921.



No claim is made to the words "Shoe" and "Women's Novelty Footwear" as used in said drawing.

Particular description of goods.—Women's Footwear—Namely, Shoes and Slippers.

Claims use since August, 1921.

Ser. No. 153,619. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JAMES C. COPPOLA, trading as Pola-Gloss Manufacturing Co., Astoria, N. Y. Filed Oct. 1, 1921.

POLA-GLOSS

Particular description of goods.—Furniture Polish.

Claims use since Sept. 1, 1921.

Ser. No. 153,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. M. OTOY & CO., Los Angeles, Calif. Filed Oct. 3, 1921.

RAINBOW

Particular description of goods.—Fresh Cantaloupes.

Claims use since April, 1921.

Ser. No. 154,014. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DIXIE LABORATORIES, Atlanta, Ga. Filed Oct. 12, 1921.



"Quinine Tonic" is disclaimed apart from the mark as shown in drawing. The lining on drawing represents green color.

Particular description of goods.—Hair Tonic.

Claims use since March, 1921.

Ser. No. 154,038. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y. Filed Oct. 12, 1921.

CALSOM

FINISH

No claim is made to the word "Finish" apart from the mark shown in drawing.

Particular description of goods.—Cold-Water Wall Finish.

Claims use since January, 1883.

Ser. No. 154,120. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE BROOKS TENT & AWNING COMPANY, Denver, Colo. Filed Oct. 15, 1921.

SQUARE
UMBRELLA

No claim is made to the words "Square Umbrella" apart from the mark shown.

Particular description of goods.—Tents.

Claims use since Apr. 19, 1921.

Ser. No. 154,407. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) MAXIMILIAN N. FAULK, Philadelphia, Pa. Filed Oct. 21, 1921.



Particular description of goods.—Shirt-Waist Hangers.

Claims use since on or about Oct. 3, 1921.

Ser. No. 154,483. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CITRUS PRODUCTS COMPANY, Chicago, Ill. Filed Oct. 24, 1921.

Lemonella

Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages and Sirups and Concentrates for Making the Same.
Claims use since Sept. 25, 1921.

Ser. No. 154,485. (CLASS 39. CLOTHING.) CLOTHIER, GILES & CO. LIMITED, Yeovil, England. Filed Oct. 24, 1921.

VANGUARD

Particular description of goods.—Leather Gloves.
Claims use since Sept. 30, 1921.

Ser. No. 154,872. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GENEVA CITRUS GROWERS ASSOCIATION, Geneva, Fla. Filed Nov. 1, 1921.

LAKE HARNEY

Particular description of goods.—Fresh Citrous Fruits.
Claims use since July 1, 1921.

Ser. No. 155,046. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Nov. 5, 1921.

DE LUXE

Particular description of goods.—Canned Plums.
Claims use since Oct. 3, 1916.

Ser. No. 155,061. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) JÖNKÖPINGS OCH VULCANS TÄNDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden. Filed Nov. 5, 1921.



No claim is made to the exclusive use of the words "Made in Sweden," "Manuf. at Jönköping," or "Safety Match" apart from the mark as shown in the drawing.
Particular description of goods.—Matches.
Claims use since 1886.

Ser. No. 155,062. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) JÖNKÖPINGS OCH VULCANS TÄNDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden. Filed Nov. 5, 1921.



No claim is made to the use of the words "Famous Impregnated, Licensed Safety Matches, Made in Sweden, The World's Best Quality" apart from the mark shown in the drawing.
Particular description of goods.—Matches.
Claims use since 1905.

Ser. No. 155,090. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DISPLAY DOUGHNUT MACHINE CORPORATION, New York, N. Y. Filed Nov. 7, 1921.



No exclusive right claimed to the use of the words "Donut Oil."
Particular description of goods.—Food Oils Containing Cottonseed Oil and Corn Oil.
Claims use since Sept. 26, 1921.

Ser. No. 155,598. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DOMENICO CANDELA, New York, N. Y. Filed Nov. 19, 1921.

LUCANO

Particular description of goods.—Olive Oil.
Claims use since Sept. 17, 1921.

Ser. No. 155,845. (CLASS 5. ADHESIVES.) WILLIAM LITTELL WHITE, Philadelphia, Pa. Filed Nov. 23, 1921.

WHITESEAL

Trade-mark "Whiteseal."
Particular description of goods.—Adhesive Substance of Mucilaginous Nature.
Claims use since about Sept. 23, 1921.

Ser. No. 155,846. (CLASS 5. ADHESIVES.) WILLIAM LITTELL WHITE, Philadelphia, Pa. Filed Nov. 23, 1921.



Particular description of goods.—Adhesive Substance of Mucilaginous Nature.
Claims use since about Sept. 23, 1921.

Ser. No. 156,092. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DR. OTTO LEDERER, Paris, France. Filed Nov. 30, 1921.

PRIAPOS

Trade-mark "Priapos."
Particular description of goods.—Cupping Outfits and Parts Thereof for Producing and Sustaining Hyperemia in Various Body Parts, Aspirators and Parts Thereof for Withdrawing Blood and Secretions from the Body, Male Cuppers, and Compression Devices for Sustaining Primarily Artificially Induced Hyperemia.
Claims use since Apr. 27, 1921.

Ser. No. 156,241. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JUSTIN SCHWARZBART, Berlin, Germany. Filed Dec. 3, 1921.

NASATOR

Particular description of goods.—Mentholated Cotton.
Claims use since Dec. 1, 1912.

Ser. No. 156,244. (CLASS 39. CLOTHING.) SOREN T. SORENSEN, St. Paul, Minn. Filed Dec. 3, 1921.

School Chums

Particular description of goods.—Girls' Leather Shoes.
Claims use since Nov. 5, 1921.

Ser. No. 156,477. (CLASS 15. OILS AND GREASES.) L. M. CRANE & COMPANY, Boston, Mass. Filed Dec. 9, 1921.

EUREKA

Particular description of goods.—Lubricating Oils and Greases.
Claims use since about 1911.

Ser. No. 156,673. (CLASS 39. CLOTHING.) BEST & CO., INC., New York, N. Y. Filed Dec. 14, 1921.

Whitehall

Trade-mark "Whitehall."
Particular description of goods.—Men's and Boys' Furnishings, Undergarments, and Clothing—Namely, House Coats, Waistcoats, Bath Robes, Smoking Robes, Smoking Jackets, Drawers, Pyjamas, Dress Shirts, Undershirts, Nightshirts, Union Suits, Bathing Suits, Swimming Suits, Dressing Gowns, Sweaters, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress Suits, Golf Suits, Hunting Suits, Riding Suits, Tuxedo Suits, Walking Suits, Sack Suits, Trousers, Hats, and Caps Made Out of Textile Material, and Gloves, Sweaters, Mufflers, Bathing Suits, Swimming Suits, Drawers, Undershirts, Hats, and Caps Made Out of Knitted Material, and for Women's, Girls', and Misses' Furnishings, Undergarments, and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Golf Suits, Riding Suits, Negligees, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Sport Coats, Hats, Caps, and Coats Made Out of Textile Material, and Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Negligees, Golf Suits, Riding Suits, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath Robes, Shirt Waists, Bathing Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Hats, and Caps Made Out of Knitted Material, and for Men's, Women's, Boys', and Girls' Shoes, Boots, Slippers, Leggings, Puttees, Made Out of Leather, Rubber, Canvas, Buckskin, or Linen or Composition of Similar Materials.
Claims use since Oct. 13, 1921.

Ser. No. 157,125. (CLASS 43. THREAD AND YARN.) THE AMERICAN THREAD COMPANY, New York, N. Y. Filed Dec. 27, 1921.



Particular description of goods.—Spool Cotton, Sewing Cotton, Cotton Thread for Manufacturing Purposes, Cotton Yarn, Knitting Cotton, Crochet Cotton, Embroidery Cotton, Lace and Art Cotton, Darning Cotton, and Mending Cotton.
Claims use since 1865.

Ser. No. 157,179. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY (Incorporated in New Jersey), Bayonne, N. J. Filed Dec. 27, 1921.

GARÇA

Particular description of goods.—Axle Greases, Black Greases, Cable-Lubricating Oils, Car-Journal-Box Oils, Coach-Axle Oils, Cold-Test Cylinder Oils, Compounded Oils, Compressor Oils, Crank-Case Oils, Cream-Separator Oils, Crude Lubricating Oils, Cup Greases, Cylinder Oils, Dark Axle Greases, Dark Filtered Cylinder Oils, Dynamo Oils, Elevator Circulating-System Oils, Engine Oils, Extra-Filtered Cylinder Oils, Extra-Heavy Lubricating Oils, Extra-Heavy Turbine Oils, Farming-Implement Oils, Lubricating-Fiber Greases, Gas-Engine-Cylinder Oils, Gas-Engine-Lubricating Oils, Gas-Engine Tractor-Lubricating Oils, Gear Greases, Harvestry-Machine Oils, Heavy Engine Oils, Heavy Filtered Spindle Oils, Heavy Motor Oils, Heavy Turbine Oils, Journal Oils, Light Axle Greases, Loom Oils, Low-Pressure Cylinder Oils, Lubricating Greases; Lubricating Oils, Light, Medium, and Heavy; Machine Oils, Mine-Car Oils, Mine-Car-Motor Oils, Motor Oils, Petroleum Greases, Pitches, Railway-Car Oils, Refrigerating-Machine Oils, Road Oils, Sewing-Machine Oils, Spindle Oils, Steam-Cylinder Oils, Stone-Crusher Oils, Transmission Lubricants, Transmission Oils, Thread-Cutting Oils, Turbine Oils, Valve Oils, White Spindle Oils, Waxes (Refined), Waxes (Yellow Crude), Waxes (White Scale).
Claims use since Sept. 27, 1921.

Ser. No. 157,380. (CLASS 39. CLOTHING.) TENDICK SHOE MANUFACTURING CO., Milwaukee, Wis. Filed Dec. 31, 1921.



No claim being made to the word "Milwaukee" apart from mark shown on drawing.
Particular description of goods.—Leather Slippers.
Claims use since Nov. 1, 1920.

Ser. No. 157,438. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DWIGHT H. MILLER, doing business as The Mumsleep Company, Sacramento, Calif. Filed Jan. 3, 1922.

Mumsleep

Particular description of goods.—Antisnoring Device.
Claims use since Nov. 15, 1921.

Ser. No. 157,481. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NISIN GONICK, New York, N. Y. Filed Jan. 4, 1922.



Particular description of goods.—Poultry Tonic and Remedy Used for Molting Time, to Help Chickens Grow, for Leg Weakness, Indigestion, Diarrhea, Cholera, and Roup.
Claims use since Aug. 1, 1921.

Ser. No. 158,102. (CLASS 39. CLOTHING.) VAN BAALEN, HEILBRUN & CO., New York, N. Y. Filed Jan. 18, 1922.

Master

Particular description of goods.—Bath Robes and Lounging Robes for Men, Women, and Children, and Smoking Jackets for Men.
Claims use since Jan. 3, 1922.

Ser. No. 158,163. (CLASS 10. PAINTS AND PAINTERS' MATERIALS.) WILLIAM ZINSSER & COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 19, 1922.

BULLS-EYE

Particular description of goods.—Bronze Powders, Bronzing Liquids, Dragon's Blood, Driers, Enamels, Fillers, Floor Oils, Floor Wax, Lacquers, Linseed Oil, Dry, Paste, and Ready-Mixed Paints, Paint Colors and Colors in Oil, Paint Pigments, Polishing Oils for Finished Surfaces, Putty, Paint Sizing, Varnish Sizing, Stains, Prepared Shellacs, Turpentine, Varnishes, Varnish Gums, Varnish Powders, White Lead, Wood Cement in the Nature of Sealing Wax Colored to Match Various Woods, Wood Fillers, Zinc Oxides.
Claims use since about 1912.

Ser. No. 158,446. (CLASS 43. THREAD AND YARN.) AARON J. ROTHSTEIN, doing business as Triangle Thread Mills, New York, N. Y. Filed Jan. 25, 1922.

"HIMALAYA"

Particular description of goods.—Mercerized and Plain Cotton Thread.
Claims use since about June 1, 1913.

Ser. No. 158,655. (CLASS 38. PRINTS AND PUBLICATIONS.) STREET & SMITH CORPORATION, New York, N. Y. Filed Jan. 30, 1922.

DETECTIVE STORY MAGAZINE

Particular description of goods.—Fiction Magazines Issued Weekly.
Claims use since Oct. 15, 1915.

Ser. No. 158,670. (CLASS 15. OILS AND GREASES.) LOUIS BLAUSTEIN, doing business as American Oil Company, Baltimore, Md. Filed Jan. 31, 1922.

AMERICAN-STRATE

Particular description of goods.—Motor Oil and Greases, Auto Oil and Greases for Lubricating Purposes, Gasoline, Motor Fuel—Namely, Combinations of Gasoline and Other Elements Mixed Therewith Used in the Place of Gasoline and Kerosene.
Claims use since 1920.

Ser. No. 158,672. (CLASS 39. CLOTHING.) ENRO SHIRT COMPANY, Louisville, Ky. Filed Jan. 31, 1922.

Enro

Particular description of goods.—Dress and Outer Shirts, Undershirts, Collars, Pyjamas, and Drawers.
Claims use since Apr. 1, 1921.

Ser. No. 158,816. (CLASS 15. OILS AND GREASES.) SOLOMON D. BENOLIEL, doing business as International Chemical Co., Philadelphia, Pa. Filed Feb. 3, 1922.



No claim is made to the use of the word "Products" apart from the mark shown in drawing.
Particular description of goods.—Lubricant for Use in Connection with the Drawing, Forming, Stamping, Drilling, and in Other Ways the Working of Metal, the Metal Being Soaked in the Lubricant Prior to Placing on the Dies, Being Swabbed Therewith or Fed to the Material While Same is Being Drawn.
Claims use since January, 1921.

Ser. No. 158,887. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WILLIAM T. PALMER & COMPANY, INC., New York, N. Y. Filed Feb. 4, 1922.

BULL DOG

Particular description of goods.—Elastic Webbing.
Claims use since Jan. 1, 1922.

Ser. No. 158,950. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAMBERS L. PEIRCE, Chicago, Ill. Filed Feb. 6, 1922.

GREEN CIRCLE

Particular description of goods.—Confections—Namely, Chewing Gum and Candy.
Claims use since Jan. 25, 1922.

Ser. No. 158,952. (CLASS 33. GLASSWARE.) SCHRAM GLASS MANUFACTURING COMPANY, Hillsboro, Ill., and St. Louis, Mo. Filed Feb. 6, 1922.



Particular description of goods.—Glass Jars.
Claims use since about Jan. 1, 1922.

Ser. No. 159,056. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY L. SHERMAN, Arlington Heights, Mass. Filed Feb. 8, 1922.

PO-REK-O

Particular description of goods.—Canned Grapefruit in Cans and Glasses.
Claims use since about Aug. 1, 1921.

Ser. No. 159,086. (CLASS 39. CLOTHING.) DES MOINES GLOVE & MFG. COMPANY, INC., Des Moines, Iowa. Filed Feb. 9, 1922.



No claim is made to the exclusive use of the word "Gloves" except in connection with the other features of the mark as shown.
Particular description of goods.—Leather Gloves; Leather, Kid, Lamb, and Cape Dress Gloves; Leather Work Gloves, and Baseball Mitts.
Claims use since March, 1918.

Ser. No. 159,102. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCIS PRIMEAUX, Orange, Tex. Filed Feb. 9, 1922.



The trade-mark is a portrait of applicant.
Particular description of goods.—Medicinal Preparation for the Relief of Dysentery.
Claims use since September, 1920.

Ser. No. 159,119. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 9, 1922.

ROYAL LADY

Trade-mark consists of the words "Royal Lady."
Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, Hats, and Underwear of Textile Fabric.
Claims use since Jan. 5, 1922.

Ser. No. 159,150. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH G. GOLDENBERG, doing business as Standard Veterinary Products Company, Philadelphia, Pa. Filed Feb. 10, 1922.



No claim is made to the exclusive use of the words "Trade Mark."
Particular description of goods.—Shampoo, Liniment for Painful and Rheumatic Conditions of Human Beings and All Domestic Animals, Medicated Alcohol, and Mange Mixture.
Claims use since Jan. 1, 1920.

Ser. No. 159,229. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SARAH W. TUTTLE, doing business as Tuttle & Harmon, Burton, Ohio, assignor to Donald Robinson, Middlefield, Ohio. Filed Feb. 11, 1922. Under ten-year proviso.



Particular description of goods.—Maple Sirup.
Claims use since 1885.

Ser. No. 159,450. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WENATCHEE VALLEY FRUIT EXCHANGE, INC., Cashmere, Wash. Filed Feb. 16, 1922.

ACME

Particular description of goods.—Fresh Cherries, Peaches, Plums, Apples, Pears, Apricots, and Prunes.
Claims use since January, 1912.

Ser. No. 159,467. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) INDIANAPOLIS TENT & AWNING CO., Indianapolis, Ind. Filed Feb. 17, 1922.

WAYSIDE

Particular description of goods.—Tents and Tarpaulins.
Claims use since Mar. 9, 1921.

Ser. No. 159,548. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHELE ALBERICO, Cleveland, Ohio. Filed Feb. 20, 1922.



No claim is made to the exclusive use of the words "Apply with Feather Brush" or to the exclusive use of the words "Cancer Relief."
Particular description of goods.—Preparation for the Treatment of Cancer.
Claims use since Dec. 17, 1921.

Ser. No. 159,560. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHASE & ANDERSON, Minneapolis, Minn. Filed Feb. 20, 1922.

AGWINDE

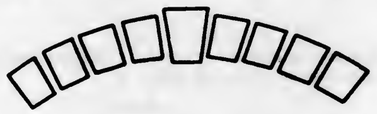
Particular description of goods.—Filler for French Pastry; Topping for Ice Cream, Cake, and Sauce.
Claims use since Feb. 7, 1922.

Ser. No. 159,734. (CLASS 39. CLOTHING.) U. S. NECKWEAR CO., Boston, Mass. Filed Feb. 28, 1922.

Ty-Rite Cravats

No claim is made to the word "Cravats" apart from the mark shown in drawing.
Particular description of goods.—Ladies' and Men's Ties.
Claims use since Oct. 1, 1921.

Ser. No. 160,013. (CLASS 39. CLOTHING.) THE KROHN-FECHHEIMER CO., Cincinnati, Ohio. Filed Mar. 1, 1922.



Particular description of goods.—Leather Boots and Shoes.
Claims use since Apr. 6, 1915.

Ser. No. 160,194. (CLASS 39. CLOTHING.) JOHANSEN BROS. SHOE COMPANY, St. Louis, Mo. Filed Mar. 4, 1922.



No claim is made to the use of the words "Arch," "Patented," or "Flexible Rigid Shank" apart from the mark as shown.
Particular description of goods.—Shoes of Leather or a Combination of Leather, Rubber, or Fabric.
Claims use since Feb. 25, 1922.

Ser. No. 160,519. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE TEXTILE MANUFACTURING CO., Chester Pa. Filed Mar. 10, 1922.



Particular description of goods.—Artificial-Silk Fiber.
Claims use since about Feb. 2, 1922.

Ser. No. 160,659. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FREDERICK J. CAVANAUGH, New York, N. Y. Filed Mar. 14, 1922.



No claim is made to the word "Trade-Mark" in the accompanying drawing. Reserving to himself all common-law rights therein applicant disclaims the words "Venise" and "Chiffon" for the purpose of this registration, except as they appear herein as a part of the mark.
Particular description of goods.—Embroidered Lace in the Piece.
Claims use since Mar. 2, 1922.

Ser. No. 160,713. (CLASS 39. CLOTHING.) LIND SHOE AND SLIPPER CO., Worcester, Mass. Filed Mar. 15, 1922.

SNUG-HUG

Particular description of goods.—Felt Slippers.
Claims use since Feb. 15, 1922.

Ser. No. 160,785. (CLASS 39. CLOTHING.) ANDERSON-DUBLIN-VARNELL CO., Knoxville, Tenn. Filed Mar. 17, 1922.

LOCUST POST

Trade-mark "Locust Post."
Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since about 1902.

Ser. No. 161,109. (CLASS 39. CLOTHING.) CAMBRIDGE RUBBER COMPANY, Cambridge, Mass. Filed Mar. 23, 1922.

VULCANETTE

Particular description of goods.—Raincoats.
Claims use since Dec. 15, 1921.

Ser. No. 161,142. (CLASS 39. CLOTHING.) PACIFIC KNITTING MILLS, INC., Los Angeles, Calif. Filed Mar. 23, 1922.

SPORTSTER

Particular description of goods.—Sweater or Knit-Goods Coat and Bathing Suits.
Claims use since Sept. 25, 1921.

Ser. No. 161,149. (CLASS 39. CLOTHING.) ROSENWALD & WEIL INC., Chicago, Ill. Filed Mar. 23, 1922.

Highland Heather

Particular description of goods.—Men's, Women's, and Misses' Overcoats, Raincoats, Suits, Golf and Sport Clothes Made of Wool, Worsted, and Knitted Materials; Men's Vests, Pants, Caps, Leggings, Smoking Jackets, and Lounging Robes.
Claims use since Jan. 1, 1917.

Ser. No. 161,238. (CLASS 39. CLOTHING.) CHAS. R. DE BEVOISE CO., Newark, N. J. Filed Mar. 25, 1922.

Sportsway

Particular description of goods.—Brassières.
Claims use since Feb. 20, 1922.

Ser. No. 161,268. (CLASS 39. CLOTHING.) LEHIGH SILK HOSIERY MILLS, INC., New York, N. Y. Filed Mar. 25, 1922.

GODDESS

Particular description of goods.—Hosiery.
Claims use since June, 1914.

Ser. No. 161,281. (CLASS 39. CLOTHING.) THE SALRUF CO., New York, N. Y. Filed Mar. 25, 1922.

FASHION-COURT

Trade-mark "Fashion Court."
Particular description of goods.—Hats and Caps for Men, Women, and Children.
Claims use since July 1, 1921.

Ser. No. 161,295. (CLASS 37. PAPER AND STATIONERY.) BLAKE, MCFALL COMPANY, Portland, Oreg. Filed Mar. 27, 1922.

TRY THE DRUG STORE FIRST

Particular description of goods.—Bond Paper for Printing, Writing, and Wrapping Purposes.
Claims use since Nov. 8, 1921.

Ser. No. 161,298. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) FRANK C. BANTER, doing business as National Specials Company, New York, N. Y. Filed Mar. 27, 1922.

NATIONAL SPECIALS COMPANY New York

The words "New York" are hereby disclaimed apart from the mark shown on drawing.

Particular description of goods.—Household Dishes.

Claims use since Nov. 15, 1921.

Ser. No. 161,496. (CLASS 39. CLOTHING.) MUTUAL CAP FRONT MFG. CO., New York, N. Y. Filed Mar. 30, 1922.

INDESTRUCTO

Particular description of goods.—Peaks or Visors for Caps.

Claims use since about December, 1921.

Ser. No. 161,556. (CLASS 39. CLOTHING.) KENILWORTH MANUFACTURING CO., INC., New York, N. Y. Filed Mar. 31, 1922.

HIKENIT

Particular description of goods.—Knickers, Bloomers, Middy Blouses, Outer Suits, and Outer Skirts for Females.

Claims use since Mar. 7, 1922.

Ser. No. 161,588. (CLASS 39. CLOTHING.) ERNEST SIMONS MFG. CO., Port Chester, N. Y. Filed Mar. 31, 1922.

ROBIN HOOD

Trade-mark "Robin Hood."

Particular description of goods.—Boys' Shirts and Boys' Blouses.

Claims use since Dec. 24, 1921.

Ser. No. 161,666. (CLASS 39. CLOTHING.) ALCONA KNITTING MILLS, San Francisco, Calif. Filed Apr. 3, 1922.

"IN-OR-OUT"

Particular description of goods.—Men's Knitted Coats for Outer Wear.

Claims use since Feb. 6, 1922.

Ser. No. 161,671. (CLASS 39. CLOTHING.) COSGROVE BROTHERS, INC., Milton and East Milton, Mass. Filed Apr. 3, 1922.

Elizabeth

Particular description of goods.—Petticoats and Bloomers.

Claims use since Mar. 18, 1921.

Ser. No. 161,697. (CLASS 39. CLOTHING.) NOVELTY SPORT HOSIERY MILLS, INC., New York, N. Y. Filed Apr. 3, 1922.

TU-WAY

Particular description of goods.—Hosiery.

Claims use since Mar. 31, 1922.

Ser. No. 161,703. (CLASS 39. CLOTHING.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Apr. 3, 1922.

RUF-IT

Particular description of goods.—Men's and Boys' Clothing, Including Overalls, Playsuits, Blouses, Work Shirts, Pants, Knickerbockers, and Rompers.

Claims use since June, 1919.

Ser. No. 161,748. (CLASS 39. CLOTHING.) J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Filed Apr. 4, 1922.

Lady-Lyke

Particular description of goods.—Corsets; Women's Underwear—Namely, Vests, Bloomers, Drawers, Princess Slips, Union Suits, Chemises, Camisoles, and Women's Nightgowns.

Claims use since Feb. 16, 1922.

Ser. No. 161,751. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SEYDEL MANUFACTURING COMPANY, Jersey City, N. J. Filed Apr. 4, 1922.

LUESIDE

Particular description of goods.—Intravenous Mercurial Preparations.

Claims use since October, 1921.

Ser. No. 161,759. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED STAR HERB MEDICINE CO., Jersey City, N. J. Filed Apr. 4, 1922.

TRADE MARK G.G.G. Star Herb

The exclusive right to the use of the words "Trade Mark" and "Herb" apart from the mark shown is hereby disclaimed.

Particular description of goods.—Certain Medicinal Herb Preparations for Lung Afflictions, Asthma, Coughs, Bronchitis; Liver, Spleen, and Kidney Diseases; Stomach Troubles, Hemorrhoids and Blood Fistula; Bladder and Urinary Diseases, Female Diseases (Whites), Rheumatic Diseases and Neuralgia, Nerve Diseases, Eczema, and Blood Impurities.

Claims use since Dec. 15, 1921.

Ser. No. 161,760. (CLASS 38. PRINTS AND PUBLICATIONS.) BERNHARD ULMANN CO., INC., New York, N. Y. Filed Apr. 4, 1922.

Everything for Art Needlework

Particular description of goods.—Initial Books, Monogram Books, Design Books, and Patterns for Art Needlework; Also Instructions and Lessons on Art Needlework, Instruction Books and Similar Publications Relating to Art Needlework; Printed Initials and Designs Forming Outlines for Embroidery and Known as Decalcomanias Issued in the Form of Books, Sheets, Leaflets, or Paper Tape.

Claims use since Aug. 8, 1921.

Ser. No. 161,835. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY C. HOSICK, doing business as Hairon Company, Toledo, Ohio. Filed Apr. 6, 1922.

HAIRON

Particular description of goods.—Preparation for Premature or Receding Baldness.

Claims use since Apr. 5, 1919.

Ser. No. 161,842. (CLASS 39. CLOTHING.) THE LARGE & ROOMY OVERALL MFG. CO., Cincinnati, Ohio. Filed Apr. 6, 1922.

CINCY DELIVERS THE GOODS

No claim to the words "Delivers the Goods."

Particular description of goods.—Men's, Boys', and Children's Overalls and Trousers.

Claims use since Feb. 10, 1921.

Ser. No. 161,859. (CLASS 39. CLOTHING.) A. STEINHARDT & BRO. INC., New York, N. Y. Filed Apr. 6, 1922.

MONEY SAVER

Particular description of goods.—Shirt Bands.

Claims use since 1919.

Ser. No. 161,897. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EDMUND E. REES, Chicago, Ill. Filed Apr. 7, 1922.

BUCKING THE LINE

No claim is made to the representation of a football apart from the mark shown in drawing.

Particular description of goods.—Game of Indoor Football.

Claims use since Feb. 8, 1922.

Ser. No. 161,914. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AUTOMOTIVE APPLIANCES MFG. CO., New Brunswick, N. J. Filed Apr. 8, 1922.

EF-FORD-LESS

Particular description of goods.—Oil Cock.
Claims use since Apr. 4, 1922.

Ser. No. 161,919. (CLASS 39. CLOTHING.) DREYFUS & COMPANY, Wilmington, Del., and Richmond, Va. Filed Apr. 8, 1922.

Molly-O

Particular description of goods.—Hosiery.
Claims use since Jan. 1, 1919.

Ser. No. 161,951. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNEST L. PATTEN, Salt Lake City, Utah. Filed Apr 10, 1922.

John D

Particular description of goods.—Hair Restorers.
Claims use since Mar. 10, 1910.

Ser. No. 161,980. (CLASS 39. CLOTHING.) THE ENSIGN SHOE CO., Belfast, Me. Filed Apr. 10, 1922.

Ensign

Trade-mark "Ensign."
Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since 1901.

Ser. No. 161,996. (CLASS 39. CLOTHING.) HODGE-FALK CORPORATION, San Francisco, Calif. Filed Apr. 10, 1922.

Superbe

Particular description of goods.—Ladies' Hats.
Claims use since July 12, 1919.

Ser. No. 162,010. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INDEPENDENT SALT COMPANY, New York, N. Y. Filed Apr. 10, 1922.

SALT RED CROSS SALT

No exclusive right to the word "Salt" is claimed apart from the mark shown.
Particular description of goods.—Salt.
Claims use since Jan. 2, 1895.

Ser. No. 162,035. (CLASS 39. CLOTHING.) SAMUEL N. MAGILL INC., Philadelphia, Pa. Filed Apr. 10, 1922.

Charmion

Particular description of goods.—Underskirts and Petticoats.
Claims use since Mar. 8, 1922.

Ser. No. 162,056. (CLASS 39. CLOTHING.) FRANCES ROSENBERG, New York, N. Y. Filed Apr. 10, 1922.

Sylphorm

Particular description of goods.—Ladies' Bloomers, Brassières, Step-Ins, Union Suits, and Combination Undergarments.
Claims use since Feb. 1, 1922.

Ser. No. 162,139. (CLASS 39. CLOTHING.) SPILTON & GLANZROCK, New York, N. Y. Filed Apr. 11, 1922.

STANCHESTER

Particular description of goods.—Men's and Boys' Suits, Overcoats, Topcoats, Trousers, Knee Pants, Vests, Capes, and Raincoats.
Claims use since Jan. 21, 1922.

Ser. No. 162,361. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ULRICH & DONALDSON, New York, N. Y. Filed Apr. 15, 1922.

TU-O-SIX TAFFETA

Trade-mark "Tu-O-Six Taffeta."
Particular description of goods.—Taffeta Cloth.
Claims use since Jan. 1, 1922.

Ser. No. 162,671. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) EMERY ART FRUIT CO., Inwood, N. Y. Filed Apr. 21, 1922.

CAME

Particular description of goods.—Artificial Fruits for Decorative Purposes in Homes and Other Places.
Claims use since Oct. 1, 1921.

Ser. No. 162,781. (CLASS 17. TOBACCO PRODUCTS.) THE TUCKETT TOBACCO COMPANY, LIMITED, Hamilton, Ontario, Canada. Filed Apr. 22, 1922.

KENO

Particular description of goods.—Cigars, Smoking Tobacco, and Cigarettes.
Claims use since about Apr. 1, 1922.

Ser. No. 162,837. (CLASS 38. PRINTS AND PUBLICATIONS.) G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Apr. 24, 1922.

WEBSTER'S NEW IDEAL

Particular description of goods.—Dictionaries Published from Time to Time.
Claims use since Nov. 6, 1913.

Ser. No. 162,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 27, 1922.

PAPILLON

Particular description of goods.—Perfumes.
Claims use since Feb. 15, 1922.

Ser. No. 162,968. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 27, 1922.

IVRESSE D'AMOUR

Particular description of goods.—Perfumes.
Claims use since Feb. 15, 1922.

Ser. No. 162,969. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 27, 1922.

BRIN D'AMOUR

Particular description of goods.—Perfumes.
Claims use since Feb. 15, 1922.

Ser. No. 162,971. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 27, 1922.

MES FLEURS

Particular description of goods.—Perfumes.
Claims use since Feb. 15, 1922.

Ser. No. 162,972. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 27, 1922.

L'ONDÉE

Particular description of goods.—Perfumes.
Claims use since Feb. 15, 1922.

Ser. No. 162,973. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 27, 1922.

DOUX BAISER

Particular description of goods.—Perfumes.
Claims use since Feb. 15, 1922.

Ser. No. 162,974. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 27, 1922.

Darling

Particular description of goods.—Perfumes.
Claims use since Feb. 15, 1922.

Ser. No. 162,975. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 27, 1922.

APRÈS TOUT

Particular description of goods.—Perfumes.
Claims use since Feb. 15, 1922.

Ser. No. 163,002. (CLASS 43. THREAD AND YARN.) WILLIAM T. PALMER & COMPANY, INC., New York, N. Y. Filed Apr. 27, 1922.



No claim is made to the word "Brand" apart from the trade-mark shown.
Particular description of goods.—Crochet Twist.
Claims use since November, 1921.

Ser. No. 163,011. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LILLIAN S. THOMAS, doing business as Froidevaux Cie., New York, N. Y. Filed Apr. 27, 1922.

ODO-R-OFF

Particular description of goods.—Deodorant.
Claims use since Feb. 15, 1922.

Ser. No. 163,012. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LILLIAN S. THOMAS, doing business as Froidevaux Cie., New York, N. Y. Filed Apr. 27, 1922.

LAJOCONDE

Particular description of goods.—Toilet Creams and Toilet Powders.
Claims use since Feb. 15, 1922.

Ser. No. 163,019. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WADSWORTH SALT COMPANY, Wadsworth, Ohio. Filed Apr. 27, 1922.

TABLE QUEEN

Particular description of goods.—Salt.
Claims use since Sept. 1, 1894.

Ser. No. 163,054. (CLASS 39. CLOTHING.) PANTHER RUBBER MANUFACTURING COMPANY, Stoughton, Mass. Filed Apr. 28, 1922.

TIGER

Particular description of goods.—Rubber Heels.
Claims use since Apr. 1, 1920.

Ser. No. 163,055. (CLASS 39. CLOTHING.) PANTHER RUBBER MANUFACTURING COMPANY, Stoughton, Mass. Filed Apr. 28, 1922.

PANCORD

Particular description of goods.—Rubber Heels.
Claims use since Mar. 15, 1922.

Ser. No. 163,056. (CLASS 39. CLOTHING.) PANTHER RUBBER MANUFACTURING COMPANY, Stoughton, Mass. Filed Apr. 28, 1922.

PANCO

Particular description of goods.—Rubber Soles and Taps.
Claims use since May 1, 1918.

Ser. No. 163,057. (CLASS 39. CLOTHING.) PANTHER RUBBER MANUFACTURING COMPANY, Stoughton, Mass. Filed Apr. 28, 1922.

LYNX

Particular description of goods.—Rubber Heels.
Claims use since Dec. 1, 1921.

Ser. No. 163,089. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JASMINE INK CORPORATION, Norfolk, Va. Filed Apr. 29, 1922.

BLUE GIRL



The drawing is lined for blue.
Particular description of goods.—Bluing.
Claims use since Mar. 15, 1922.

Ser. No. 163,100. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARINELLO COMPANY, La Crosse, Wis. Filed Apr. 29, 1922.

ERASETOR

Particular description of goods.—Wrinkle Paste.
Claims use since July 18, 1921.

Ser. No. 163,165. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAGNUM IMPORT CO., INC., New York, N. Y. Filed May 1, 1922.

MAGNUM

Particular description of goods.—Perfumes, Toilet Waters, Liquid Brilliantines, Solid Brilliantines, Face Powders, Toilet Powders, Sachet Powders, Face Rouges, Lip Rouges, and Lip Sticks.
Claims use since Mar. 1, 1922.

Ser. No. 163,183. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) RAINBO PAPER FAVOR WORKS, Chicago, Ill. Filed May 1, 1922.

RAINBO

Particular description of goods.—Toy Favors.
Claims use since Dec. 1, 1921.

Ser. No. 163,194. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. F. SHANNON, doing business as The Shannon Chemical Company, Dubois, Pa. Filed May 1, 1922.

Allwell

Particular description of goods.—Remedy for Ailments of the Mouth and Throat.
Claims use since Feb. 15, 1921.

Ser. No. 163,210. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ACHESON MANUFACTURING COMPANY, Rankin, Pa. Filed May 2, 1922.

A/M/F/G Co.

Particular description of goods.—Cocks, Ball Cocks, and Mansfield Ball Cocks.
Claims use since Nov. 4, 1921.

Ser. No. 163,278. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERMAN A. METZ, New York, N. Y. Filed May 3, 1922.

RADIO

Particular description of goods.—Dyes and Dyestuffs.
Claims use since Apr. 28, 1922.

Ser. No. 163,284. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RUBINO-DESTAFINO CO., New York, N. Y. Filed May 3, 1922.

ROYAL STAR

Particular description of goods.—Doilies, Textile Centerpieces, Table Linens, Bedspreads, Textile Carriage Covers, Towels Other Than Paper; Textile Art Work in Piece and Form Out of Which Babies', Children's, and Ladies' Dresses, Rompers, and Kimonos May be Made, and Textile Art Forms for Laundry Bags.
Claims use since Apr. 15, 1922.

Ser. No. 163,286. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REMINGTON SALT COMPANY, Ithaca, N. Y. Filed May 3, 1922.

EXCELSIOR

Particular description of goods.—Salt.
Claims use since on or about Apr. 1, 1922.

Ser. No. 163,288. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REMINGTON SALT COMPANY, Ithaca, N. Y. Filed May 3, 1922.

SUPREME

Particular description of goods.—Salt.
Claims use since on or about Apr. 1, 1922.

Ser. No. 163,289. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REMINGTON SALT COMPANY, Ithaca, N. Y. Filed May 3, 1922.

SPARKLING

Particular description of goods.—Salt.
Claims use since about January, 1902.

Ser. No. 163,334. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HY-GEN-OL LABORATORY, Spring Valley, N. Y. Filed May 4, 1922.

ALTO-DENT.

Particular description of goods.—Tooth Paste.
Claims use since Apr. 25, 1922.

Ser. No. 163,335. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HISCOX CHEMICAL WORKS, Patchogue, N. Y. Filed May 4, 1922.

LAVO

Particular description of goods.—Toilet Lotion.
Claims use since 1920.

Ser. No. 163,372. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHAS. L. BRUSH, doing business as More Candy Co., Los Angeles, Calif. Filed May 5, 1922.

GIT
COUGH DROPS

No claim being made to the words "Cough Drops" apart from the mark as shown.
Particular description of goods.—Cough Drops.
Claims use since Apr. 7, 1922.

Ser. No. 163,506. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT MILLS, Lawrence and Boston, Mass. Filed May 8, 1922.

Emprise

The word "Emprise" is printed in blue—that is, the letters are filled in in blue, outlined in gold, as indicated in the drawing, upon which trade-mark is shown.
Particular description of goods.—Cotton Piece Goods.
Claims use since Dec. 2, 1921.

Ser. No. 163,513. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FINK & ROCK, INC., New York, N. Y. Filed May 8, 1922.

DEA-REE

Particular description of goods.—Vanishing Cream, Almond Cream, Lemon Cream, Brilliantine, Cold Cream, Mud Massage, Nail-Polish Remover, and Nail Polish.
Claims use since Mar. 31, 1922, except as to nail polish, since Mar. 15, 1922.

Ser. No. 163,520. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE JOHN HUGO MANUFACTURING COMPANY, New Haven, Conn. Filed May 8, 1922.

RADIO
REX

Particular description of goods.—Toy Dog and Kennel.
Claims use since on or about Sept. 15, 1921.

Ser. No. 163,549. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LOUIS SILBERMAN & SONS, Philadelphia, Pa. Filed May 8, 1922.

S&S

Particular description of goods.—Finished Sole Leather.
Claims use since Jan. 1, 1921.

Ser. No. 163,575. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ENOLA COSMETIC CO., San Francisco, Calif. Filed May 9, 1922.

Enola

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since March, 1906.

Ser. No. 163,578. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. GROSS, doing business as Bel-Mont Laboratories, Philadelphia, Pa. Filed May 9, 1922.

KALEX

Particular description of goods.—Medicinal Preparation for the Treatment of Sore Throat and Other Diseases of a Similar Nature Affecting the Mouth and Throat of Children and Adults.
Claims use since January, 1918.

Ser. No. 163,579. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. GROSS, doing business as Bel-Mont Laboratories, Philadelphia, Pa. Filed May 9, 1922.

SPAWE

Particular description of goods.—Medicinal Preparation Used in the Treatment of Anæmia, Loss of Appetite, and Wasting Diseases, Nervous Disorders, and Run-Down Conditions of the Body, All Diseases of the Nervous System, and is Also Used as a General Tonic for Men and Women.
Claims use since January, 1918.

Ser. No. 163,580. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. GROSS, doing business as Bel-Mont Laboratories, Philadelphia, Pa. Filed May 9, 1922.

BU-SPIR

Particular description of goods.—Medicinal Preparation Used for the Treatment of Acute Chronic Kidney, Bladder, and Urinary Disorders, Chronic Bright's Disease, Rheumatism, and Pain in the Back.
Claims use since January, 1918.

Ser. No. 163,581. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. GROSS, doing business as Bel-Mont Laboratories, Philadelphia, Pa. Filed May 9, 1922.

PEP-TO-PAN

Particular description of goods.—Medicinal Preparation Used in the Treatment of Dyspepsia, Indigestion, Sick Headache, Flatulence, Sour Stomach, Intestinal Fermentation, and All Ailments of the Digestive Organs.
Claims use since January, 1918.

Ser. No. 163,603. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD WALL PAPER CO., Hudson Falls, N. Y. Filed May 9, 1922.

STANDCO
QUALITY
COLORS

No claim being made to the exclusive use of the words "Quality Colors" apart from the mark as shown in the drawing.
Particular description of goods.—Pulp Colors and Dry Colors.
Claims use since Aug. 26, 1921.

Ser. No. 163,646. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 10, 1922.

CAPSOLIN

Particular description of goods.—Counterirritants.
Claims use since Aug. 18, 1904.

Ser. No. 163,667. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOWMAN DRUG COMPANY, Oakland, Calif. Filed May 11, 1922.

Spiritol

Particular description of goods.—Rubbing Preparation for External Use.
Claims use since Apr. 15, 1922.

Ser. No. 163,720. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed May 11, 1922.

Mon Homme

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Apr. 26, 1922.

Ser. No. 163,724. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIP H. WARSHAW, New York, N. Y. Filed May 11, 1922.

BRILROSIN

Particular description of goods.—Hair Tonic.
Claims use since October, 1921.

Ser. No. 163,766. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN RINCIARI, doing business as New York Extract & Perfumery Co., New York, N. Y. Filed May 12, 1922.

First Love

Particular description of goods.—Hair Tonic.
Claims use since about August, 1919.

Ser. No. 163,817. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY F. MACHUNZE, Brooklyn, N. Y. Filed May 13, 1922.

LANOGEN

Particular description of goods.—Preparation for the Treatment of Rheumatism, Gout, Sciatica, and Kindred Ailments.
Claims use since May 5, 1922.

Ser. No. 163,846. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE AUGUST MAAG COMPANY, Baltimore, Md. Filed May 15, 1922.

TAMCO TINNED

No claim is made to the word "Tinned" apart from other features of the mark.
Particular description of goods.—Tinned Bake Pans.
Claims use since May 5, 1922.

Ser. No. 163,906. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed May 15, 1922.

Broadway

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since May 5, 1922.

Ser. No. 163,921. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) W. M. DE PARS, doing business as the Perfect Pocket Pipe Company, Paterson, N. J. Filed May 16, 1922.

PPP

Particular description of goods.—Pipes.
Claims use since Apr. 15, 1922.

Ser. No. 163,945. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) REX-HIDE RUBBER MANUFACTURING COMPANY, East Brady, Pa. Filed May 16, 1922.

REX=BLAK

Particular description of goods.—Vulcanizable Material Consisting of a Mixture of Rubber, Glue, and Carbon Black Sold in an Unvulcanized Condition and Used in the Manufacture of Rubber Products.
Claims use since Nov. 9, 1920.

Ser. No. 163,946. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) REX-HIDE RUBBER MANUFACTURING COMPANY, East Brady, Pa. Filed May 16, 1922.

Rex=Hide

Particular description of goods.—Vulcanizable Material Consisting of a Mixture of Rubber and Glue Sold in an Unvulcanized Condition and Used in the Manufacture of Rubber Products.
Claims use since Feb. 28, 1919.

Ser. No. 163,977. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GOLDEN STATE BOTTLING CO., Oakland, Calif. Filed May 17, 1922.

ORANGE MIST

Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as Soft Drink.
Claims use since Apr. 1, 1920.

Ser. No. 164,042. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HIBBEN, HOLLWEG & CO., Indianapolis, Ind. Filed May 18, 1922.



No claim is made to the word "Flax" apart from the mark shown in the drawing.
Particular description of goods.—Linen Piece Goods—Namely, Tablecloths, Napkins, Sheetings, Pillow Tubing, Toweling, Centerpieces, and Doilies.
Claims use since Mar. 1, 1922.

Ser. No. 164,245. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY-BROWN CO. INC., Glendale, Calif. Filed May 22, 1922.

H-B

Fru-Ber-ree

The word "Quality" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Fruit Beverage Sold as Soft Drink and Sirups Used in the Preparation of Same, and a Concentrate in the Nature of Fruit Sirup for Making a Nonalcoholic Fruit Beverage by Combining with Plain or Charged Water and the Nonalcoholic Fruit Beverage Sold as a Soft Drink Made Therefrom.
Claims use since Dec. 31, 1921.

Ser. No. 164,395. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim made to exclusive use of words "Casting," "Finest Japan Hard Braid Silk," or "Once Tried Always Used" apart from mark shown on drawing.
Particular description of goods.—Japan Hard Braid Silk Fishing Lines.
Claims use since July 27, 1916.

Ser. No. 164,554. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PENN RIVET CORPORATION, Philadelphia, Pa. Filed May 26, 1922.

Riv-it

Particular description of goods.—Rivets.
Claims use since Nov. 15, 1921.

Ser. No. 164,635. (CLASS 39. CLOTHING.) FOOT, SCHULZE & CO., St. Paul, Minn. Filed May 29, 1922.

GENII

Trade-mark consists of the word "Genii" surrounded by a line of oval shape.
Particular description of goods.—Children's Leather Boots and Shoes.
Claims use since Sept. 15, 1920.

Ser. No. 164,891. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

FIELD QUALITY

VESPER

Particular description of goods.—Cotton Batting.
Claims use since 1917.

Ser. No. 164,892. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

FIELD QUALITY

RUTH

Particular description of goods.—Cotton Batting.
Claims use since 1917.

Ser. No. 164,893. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

BO-PEEP

FIELD QUALITY

Particular description of goods.—Cotton Batting.
Claims use since 1916.

Ser. No. 164,894. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

FIELD QUALITY

CLIMAX

Particular description of goods.—Cotton Batting.
Claims use since 1917.

Ser. No. 164,895. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

FIELD QUALITY

AJAX

Particular description of goods.—Cotton Batting.
Claims use since 1918.

Ser. No. 165,182. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHESTER LACE MILLS, Chester, Pa. Filed June 8, 1922.



No claim is made to the exclusive use of words "Window Lace" apart from, nor except in conjunction with the mark shown in drawing.
Particular description of goods.—Lace Curtains and Nets or Curtain Lace in Piece Goods Manufactured and Sold by Us to the Trade and Public.
Claims use since Sept. 1, 1909.

Ser. No. 165,207. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) QUAKER LACE COMPANY, Philadelphia, Pa. Filed June 8, 1922.



No claim is made for exclusive use of words "Tuscan Net" except as a part of and in relation to other features of the mark, as shown in drawing. The portrait of

Quaker is fanciful. The ground color of the oval figure is solid red color, as shown in specimen of the mark as actually used, contrasting in color, and so intended, with that of the picture and the words "Tuscan Net," both of which are printed in black.

Particular description of goods.—Lace Curtains and Nets or Curtain Lace in Piece Goods Manufactured and Sold by Us to the Trade and Public.

Claims use since Oct. 1, 1920.

Ser. No. 165,310. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed June 10, 1922.

KARATEX

Trade-mark "Karatex."

Particular description of goods.—Pile Fabrics in the Piece.

Claims use since Mar. 31, 1922.

Ser. No. 165,312. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed June 10, 1922.

MARVO-VELOUR

No claim is made to the exclusive right to the use of the word "Velour" except in connection with the mark shown; trade-mark "Marvo-Velour."

Particular description of goods.—Pile Fabrics in the Piece.

Claims use since Apr. 14, 1922.

Ser. No. 165,581. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CREO-DIPT COMPANY, INC., North Tonawanda, N. Y. Filed June 16, 1922.

"CREO-DIPT"

Particular description of goods.—Nails.

Claims use since about September, 1920.

Ser. No. 166,152. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE STRONG, CARLISLE & HAMMOND COMPANY, Cleveland, Ohio. Filed June 27, 1922.

ANUM-METL

Particular description of goods.—Steam Specialties, Comprising the Valves and Seats and Other Wearing Parts of Steam Traps, Vacuum Traps, Steam and Oil Separators, Reducing Valves, and Feed-Water Regulators.

Claims use since Oct. 8, 1921.

Ser. No. 166,296. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed June 30, 1922.

Wizard

Particular description of goods.—Artificial Minnows and Fishing Lines.

Claims use since 1903.

Ser. No. 166,297. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed June 30, 1922.



Particular description of goods.—Snelled Hooks, Gut Leaders, and Artificial Flies.

Claims use since 1902.

Ser. No. 166,432. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BENEKE & KROPF MANUFACTURING COMPANY, Chicago, Ill. Filed July 3, 1922.



Particular description of goods.—Toilet Seats.

Claims use since June 10, 1922.

Ser. No. 166,439. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed July 3, 1922.

Traversine

Particular description of goods.—Woolen Piece Goods.

Claims use since May 21, 1922.

Ser. No. 166,440. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed July 3, 1922.

Purltex

Particular description of goods.—Woolen Piece Goods.

Claims use since June 1, 1922.

Ser. No. 166,441. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed July 3, 1922.

Purltwill

Particular description of goods.—Woolen Piece Goods.

Claims use since June 1, 1922.

Ser. No. 166,442. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed July 3, 1922.

Charmeen

Particular description of goods.—Woolen Piece Goods.

Claims use since May 21, 1922

Ser. No. 166,443. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed July 3, 1922.

Travertine

Particular description of goods.—Woolen Piece Goods.

Claims use since May 21, 1922.

Ser. No. 166,472. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SHOE PRODUCTS CO., INC., New York, N. Y. Filed July 3, 1922.

Green-Ej

Particular description of goods.—Satin in the Piece.

Claims use since about Apr. 1, 1922.

Ser. No. 166,631. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) S. W. BROWN COMPANY, Glendale, Calif. Filed July 10, 1922.

Green Hill

Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups Used in Preparation of Same—Namely, Root Beer, Ginger Beer, Ginger Ale, Strawberry, Raspberry, Lemon, Orange, Cherry, Grape, and Cream.

Claims use since May 16, 1922.

Ser. No. 166,667. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed July 10, 1922.

Velledge Hand-Blocked Effects

The words "Hand Blocked Effects" do not form a part of the registration sought apart from the mark shown in drawing.

Particular description of goods.—Piece Goods—viz, Cretonne.

Claims use since Oct. 1, 1921.

Ser. No. 166,668. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed July 10, 1922.

AMERICE

Particular description of goods.—Hair Nets.

Claims use since January, 1917.

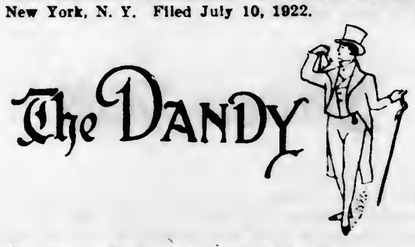
Ser. No. 166,687. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY-BROWN COMPANY, INC., Glendale, Calif. Filed July 10, 1922.

SCOTCH MIST

Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups Used in Preparation of Same.

Claims use since Feb. 1, 1922.

Ser. No. 166,706. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. W. MAGNUS & Co., New York, N. Y. Filed July 10, 1922.



The picture shown in drawing is fanciful.
Particular description of goods.—Handkerchiefs.
Claims use since 1912.

Ser. No. 166,759. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed July 8, 1922.

Satalka

Trade-mark "Satalka."
Particular description of goods.—Silk, Artificial Silk, Linen, Woolen, and Cotton Piece Goods and Combinations Thereof.
Claims use since Apr. 15, 1922.

Ser. No. 166,818. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT, HEANEY & Co. INC., New York, N. Y. Filed July 13, 1922.



Particular description of goods.—Cotton Piece Goods.
Claims use since 1912.

Ser. No. 166,819. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT, HEANEY & Co. INC., New York, N. Y. Filed July 13, 1922.



Particular description of goods.—Cotton Piece Goods.
Claims use since 1912.

Ser. No. 166,980. (CLASS 13. HARDWARE AND PLUMBING, AND STEAM-FITTING SUPPLIES.) CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed July 17, 1922.

The Rain King

Particular description of goods.—Lawn Sprinklers.
Claims use since June 1, 1922.

Ser. No. 166,992. (CLASS 45. BEVERAGES, NONALCOHOLIC.) FRUTRITE PRODUCTS COMPANY, Los Angeles, Calif. Filed July 17, 1922.

FRUTRITE

Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups Used in Preparation of Same.
Claims use since June 22, 1922.

Ser. No. 167,006. (CLASS 45. BEVERAGES, NONALCOHOLIC.) MCAVOY COMPANY, doing business as Wacker & Birk Co., Chicago, Ill. Filed July 17, 1922.



Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups Used in Preparation of Same.
Claims use since May 16, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 22, 1922.

157,842. GINGER ALE. ABNER-DRURY COMPANY, Washington, D. C.
Filed April 4, 1922. Serial No. 161,713. PUBLISHED MAY 16, 1922.

157,843. LIVER MEDICINE IN THE FORM OF CAPSULES. CHARLES D. ABSHEAR, doing business as National Laboratories, San Antonio, Tex.
Filed December 29, 1921. Serial No. 157,246. PUBLISHED MAY 9, 1922.

157,844. HANDKERCHIEFS. THE ACHESON-HARDEN CO., New York, N. Y.
Filed February 23, 1922. Serial No. 159,677. PUBLISHED MAY 30, 1922.

157,845. LIQUID GAUGES. THE AKRON-SELLS COMPANY, Akron, Ohio.
Filed December 22, 1921. Serial No. 157,015. PUBLISHED MAY 23, 1922.

157,846. SPIRITUOUS LIQUORS — NAMELY, WINE, WHISKY, BRANDY, ETHYL ALCOHOL, AND LEES USED IN THE MANUFACTURE OF DISTILLED LIQUORS. AKTIESELSKABET DE DANSKE SPRITFABRIKKER, Copenhagen, Denmark.
Filed November 8, 1921. Serial No. 155,133. PUBLISHED MAY 30, 1922.

157,847. EXPLOSIVES, BLASTING POWDER, FUSES, DETONATORS, PROJECTILES, CARTRIDGES, AND MUNITIONS. AKTIENGESELLSCHAFT LIGNOSE, Berlin, Germany.
Filed November 10, 1921. Serial No. 155,249. PUBLISHED MAY 23, 1922.

157,848. NONINTOXICATING, NONCEREAL, MALTLESS FRUIT BEVERAGE SOLD AS A SOFT DRINK AND SIRUPS USED IN THE PREPARATION OF SAME. AMERICAN BOTTLING & SODA WATER Co., San Francisco, Calif.
Filed March 9, 1922. Serial No. 160,379. PUBLISHED MAY 16, 1922.

157,849. NOBLE-METAL PRECIPITANTS. THE AMERICAN CHEMICAL WORKS, San Francisco, Calif.
Filed December 28, 1921. Serial No. 157,204. PUBLISHED MAY 9, 1922.

157,850. CORSETS, BRASSIÈRES, CORSET WAISTS, TEXTILE-FABRIC UNDERWEAR, BANDEAUX, HOSIERY, GIRDLES. AMERICAN LADY CORSET CO., Detroit, Mich.
Filed August 22, 1921. Serial No. 152,000. PUBLISHED MAY 23, 1922.

157,851. TOOTH PASTE. AMERICAN SUNDRIES COMPANY, Chicago, Ill.
Filed July 12, 1921. Serial No. 150,257. PUBLISHED MAY 23, 1922.

157,852. A COMPOUND FOR CERTAIN NAMED MEDICINAL USES. ELIZABETH M. ANGELL, Syracuse, N. Y.
Filed December 1, 1921. Serial No. 156,131. PUBLISHED MARCH 21, 1922.

157,853. A COMPOUND FOR CERTAIN NAMED MEDICINAL USES. ELIZABETH M. ANGELL, Syracuse, N. Y.
Filed December 1, 1921. Serial No. 156,132. PUBLISHED MARCH 21, 1922.

157,854. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. S. & J. ANGERT BROS., Philadelphia, Pa., and Atlantic City, N. J.
Filed April 1, 1922. Serial No. 161,613. PUBLISHED MAY 16, 1922.

157,855. KNITTED SWEATERS. ARE TEE KNITTING MILLS, Philadelphia, Pa.
Filed December 1, 1921. Serial No. 156,130. PUBLISHED MAY 16, 1922.

157,856. RAINCOATS AND SWEATERS. ARTISTIC DESIGNERS, INC., Louisville, Ky.
Filed June 13, 1921. Serial No. 149,112. PUBLISHED MAY 23, 1922.

157,857. TAPEWORM REMEDY. EMANUEL ARUNY, West New Brighton, N. Y.
Filed September 19, 1921. Serial No. 153,061. PUBLISHED MARCH 21, 1922.

157,858. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUP FOR MAKING THE SAME. MOSES ASHCROFT, trading as Moon Chuckle Products Co., Maywood and Chicago, Ill.
Filed January 3, 1922. Serial No. 157,401. PUBLISHED MAY 9, 1922.

157,859. WOOLEN, WORSTED, LINEN, VELVET, HAIRCLOTH, VENETIAN, CANVAS, AND COTTON PIECE GOODS. ASSOCIATED COMMISSION CO., INC., New York, N. Y.
Filed February 14, 1921. Serial No. 143,526. PUBLISHED MAY 16, 1922.

157,860. BEDSPREADS. AURORA BED SPREAD CO., INC., New York, N. Y.
Filed November 28, 1921. Serial No. 155,984. PUBLISHED MAY 30, 1922.

157,861. SMOKING TOBACCO. BAILEY BROS. INC., Winston-Salem, N. C.
Filed April 19, 1922. Serial No. 162,529. PUBLISHED MAY 30, 1922.

157,862. MEDICINE FOR THE TREATMENT OF HAY FEVER AND COLDS. WM. W. BAIRD, doing business as Heyfema Company, Columbus, Ga.
Filed October 31, 1921. Serial No. 154,785. PUBLISHED MAY 16, 1922.

157,863. CERTAIN NAMED TOYS. THE BARNARD TOY CO., Detroit, Mich.
Filed January 23, 1922. Serial No. 158,282. PUBLISHED MAY 30, 1922.

157,864. CERTAIN NAMED BLANKETS, COMFORTABLES, BATH-ROBE FLANNEL, AND BLANKET GOODS IN PIECE. BEACON MANUFACTURING COMPANY, Providence, R. I.
Filed January 3, 1921. Serial No. 141,752. PUBLISHED MAY 16, 1922.

157,865. FILM-CLEANING FLUID. GEORGE H. BENNETT, Kansas City, Mo.
Filed October 7, 1921. Serial No. 153,836. PUBLISHED MAY 23, 1922.

157,866. MEN'S FELT HATS. F. BERG & Co., Orange, N. J.
Filed September 29, 1921. Serial No. 153,498. PUBLISHED MAY 23, 1922.

157,867. YOUNG MEN'S AND YOUTHS' COATS, VESTS, PANTS, AND OVERCOATS. J. BLACH & SONS, Birmingham, Ala.
Filed September 9, 1921. Serial No. 152,737. PUBLISHED MAY 16, 1922.

157,868. YOUNG MEN'S AND YOUTHS' COATS, VESTS, PANTS, AND OVERCOATS. J. BLACH & SONS, Birmingham, Ala.
Filed September 9, 1921. Serial No. 152,738. PUBLISHED MAY 16, 1922.

157,869. TOOTH PASTE. JOHN J. BLACKMAN, doing business as Pepsol Company, Atlantic City, N. J.
Filed December 30, 1921. Serial No. 157,296. PUBLISHED MAY 9, 1922.

157,870. TABLE GAME PLAYED WITH DISKS AND RECEPTACLES. VERNON D. BLANK, doing business as Grinnell Games, Grinnell and Des Moines, Iowa.
Filed January 23, 1922. Serial No. 158,288. PUBLISHED MAY 23, 1922.

157,871. MEN'S WORK, DRESS, SPORT, AND NEGLIGEE SHIRTS AND BOYS' SHIRTS AND BLOUSES. Bob & BASKIND, New York, N. Y.
Filed November 23, 1921. Serial No. 155,802. PUBLISHED MAY 23, 1922.

157,872. NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUP AND EXTRACT FOR MAKING SAME. FRANK M. BONHEIM, doing business as The Frank M. Bonheim Licorice & Beverage Co., St. Louis, Mo.
Filed November 7, 1921. Serial No. 155,080. PUBLISHED MAY 23, 1922.

157,873. CHILD'S TOY VEHICLE. BYRON BRADY, Scranton, Pa.
Filed April 11, 1922. Serial No. 162,098. PUBLISHED MAY 30, 1922.

157,874. PREPARATIONS FOR THE TREATMENT OF COUGHS AND COLDS. GEORGE I. BRANOWER, doing business as Say Drug Products Co., New York, N. Y.
Filed October 22, 1921. Serial No. 154,427. PUBLISHED MAY 9, 1922.

157,875. PREPARATION FOR THE TREATMENT OF PYORRHEA. GEORGE I. BRANOWER, doing business under the name of Say Drug Products Co., New York, N. Y.
Filed October 22, 1921. Serial No. 154,428. PUBLISHED FEBRUARY 21, 1922.

157,876. MEN'S, LADIES', CHILDREN'S, AND INFANTS' HOSIERY AND UNDERWEAR OF KNITTED AND TEXTILE FABRIC. DAVID BRODINSKY, doing business as Reliable Dry Goods Co., Springfield, Mass.
Filed October 3, 1921. Serial No. 153,643. PUBLISHED MAY 23, 1922.

157,877. MEDICINES FOR CERTAIN NAMED DISEASES. RACHEL W. BROWN, Detroit, Mich., assignor to Henry H. Simons, Detroit, Mich.
Filed August 29, 1921. Serial No. 152,307. PUBLISHED MAY 30, 1922.

157,878. RAT POISON. FRANK BROSOSKY, Haywood, W. Va.
Filed February 7, 1922. Serial No. 158,972. PUBLISHED MARCH 28, 1922.

157,879. GAME BOARDS, GAME INDICATOR, GAME COUNTER, GAME PIECE, AND GAMES PLAYED WITH A COUNTER, INDICATOR, OR GAME PIECE. EDMUND BRUDER, Chicago, Ill.
Filed December 12, 1921. Serial No. 156,563. PUBLISHED MAY 16, 1922.

157,880. A COASTER CAR FOR CHILDREN. BRYAN & SANDBACH, Jersey City, N. J.
Filed November 15, 1921. Serial No. 155,386. PUBLISHED MAY 16, 1922.

157,881. CERTAIN NAMED MEDICINAL PREPARATIONS. BRYANT, FRENCH & COMPANY, Minneapolis, Minn.
Filed December 8, 1919. Serial No. 125,692. PUBLISHED DECEMBER 28, 1920.

157,882. COVER PAPER. J. W. BUTLER PAPER COMPANY, Chicago, Ill.
Filed November 22, 1920. Serial No. 139,955. PUBLISHED MAY 23, 1922.

157,883. HAIR TONIC. ALFRED R. BYLES, Myra, Tex.
Filed April 17, 1919. Serial No. 117,557. PUBLISHED FEBRUARY 10, 1920.

157,884. APPLE CIDER, GRAPE JUICE, AND FRUIT SIRUPS FOR MAKING NONALCOHOLIC, NONCEREAL, MALTLESS CARBONATED SOFT DRINKS. CALIFORNIA FRUIT BEVERAGE CO., Los Angeles, Calif.
Filed March 31, 1922. Serial No. 161,527. PUBLISHED MAY 16, 1922.

157,885. CERTAIN NAMED TOILET PREPARATIONS. JOSEPH H. CALISHER, New York, N. Y.
Filed December 11, 1919. Serial No. 125,832. PUBLISHED APRIL 27, 1920.

157,886. HAIR TONIC. SEVERINO CAPORALE, doing business as The Balbia Chemical Mfg. Co., Philadelphia, Pa.
Filed December 1, 1921. Serial No. 156,146. PUBLISHED MAY 9, 1922.

157,887. CERTAIN NAMED TOILET PREPARATIONS. CARMELA NIETO DE HERRERA E HIJOS, Habana, Cuba, and New York, N. Y.
Filed December 3, 1921. Serial No. 156,217. PUBLISHED MAY 9, 1922.

157,888. A CHEMICAL SUBSTANCE IN THE NATURE OF A FLUX. THE CARBICITE COMPANY, Chicago, Ill.
Filed December 2, 1921. Serial No. 156,186. PUBLISHED MAY 9, 1922.

157,889. COTTON PIECE GOODS. CARTER DRY GOODS Co., Louisville, Ky.
Filed February 18, 1922. Serial No. 159,498. PUBLISHED MAY 30, 1922.

157,890. CIGARS AND SMOKING TOBACCO. CAVOUR CIGAR COMPANY, New York, N. Y.
Filed December 17, 1921. Serial No. 156,865. PUBLISHED MAY 30, 1922.

157,891. POCKETKNIVES. THE CHALLENGE CUTLERY CORPORATION, Bridgeport, Conn.
Filed November 4, 1921. Serial No. 155,016. PUBLISHED MAY 30, 1922.

157,892. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE, COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed February 8, 1922. Serial No. 159,011. PUBLISHED MAY 16, 1922.

157,893. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,923. PUBLISHED MAY 16, 1922.

157,894. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,954. PUBLISHED MAY 16, 1922.

157,895. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. THE CHERRY PRIDE COMPANY, Chicago, Ill.
Filed March 28, 1922. Serial No. 161,354. PUBLISHED MAY 16, 1922.

157,896. STRAWBOARD, BOX BOARD, FIBER BOARD, PASTED CHIP BOARD, PASTED STRAWBOARD, BACKING BOARD, PLAIN CHIP BOARD, PASTED CONTAINER BOARD, AND PARTICULARLY BINDERS' BOARD. THE C. L. LABOITEAUX COMPANY, Cincinnati, Ohio.
Filed February 14, 1921. Serial No. 143,545. PUBLISHED MAY 16, 1922.

157,897. MEDICINAL PREPARATION, BEING A SPECIFIC USED FOR THE REDUCTION OF INFLAMMATIONS. ROBERT S. CLARK, Olympia, Wash.
Filed October 10, 1921. Serial No. 153,924. PUBLISHED MAY 9, 1922.

157,898. HEALING SALVE. PETER COCUZZA, Newark, N. J.
Filed September 30, 1921. Serial No. 153,536. PUBLISHED MAY 23, 1922.

157,899. HAIR NETS. N. B. COHEN, Scranton, Pa.
Filed February 15, 1922. Serial No. 159,343. PUBLISHED MAY 16, 1922.

157,900. HAIR NETS. N. B. COHEN, Scranton, Pa.
Filed February 15, 1922. Serial No. 159,344. PUBLISHED MAY 16, 1922.

157,901. HAIR NETS. N. B. COHEN, Scranton, Pa.
Filed February 15, 1922. Serial No. 159,345. PUBLISHED MAY 30, 1922.

157,902. HAIR NETS. N. B. COHEN, Scranton, Pa.
Filed February 15, 1922. Serial No. 159,346. PUBLISHED MAY 16, 1922.

157,903. HAIR NETS. N. B. COHEN, Scranton, Pa.
Filed February 15, 1922. Serial No. 159,347. PUBLISHED MAY 30, 1922.

157,904. MEN'S AND BOYS' OUTER SUITS AND TROUSERS. COHN, GOLDWATER COMPANY, Los Angeles, Calif.
Filed July 14, 1921. Serial No. 150,352. PUBLISHED MAY 23, 1922.

157,905. PHARMACEUTICAL PREPARATION USED INTERNALLY FOR PROMOTING THE GROWTH OF HAIR. HENRY COHRS, Hanover, Germany.
Filed December 3, 1921. Serial No. 156,214. PUBLISHED MAY 9, 1922.

157,906. SELENIUM COLLOIDS. COLLENE LABORATORIES INC., New York, N. Y.
Filed December 30, 1921. Serial No. 157,301. PUBLISHED MARCH 28, 1922.

157,907. BEAUTIFIER (PASTE FORM,) ROUGE, SHAMPOO, HAIR TONIC, DEPILATORY, EYEBROW PENCIL. COLONIAL DAMES BEAUTIFIER COMPANY, Los Angeles, Calif.
Filed May 9, 1921. Serial No. 147,411. PUBLISHED MAY 9, 1922.

157,908. RUGS MADE OF WOOL AND COTTON, AND CARPETS. COLONIAL RUG COMPANY, Waltham, Mass.
Filed September 28, 1921. Serial No. 153,437. PUBLISHED MAY 30, 1922.

157,909. VAGINAL SUPPOSITORIES AND A GENERAL TONIC FOR BUILDING UP THE HUMAN SYSTEM. COLTON & COLLINS, INC., Oakland, Calif.
Filed December 30, 1921. Serial No. 157,300. PUBLISHED MARCH 28, 1922.

157,910. MEDICINAL SALVE FOR THE TREATMENT OF RHEUMATISM AND KINDRED AILMENTS. ANDREW C. CONN, doing business as Eld-O-Lene Manufacturing Company, New Bedford, Mass.
Filed September 26, 1921. Serial No. 153,334. PUBLISHED MAY 23, 1922.

157,911. HAIR NETS. L. H. CONNOR, San Francisco, Calif.
Filed November 17, 1921. Serial No. 155,484. PUBLISHED MAY 30, 1922.

157,912. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. GEORGE C. COOK, doing business as The Honey Products Co., New York, N. Y.
Filed March 11, 1922. Serial No. 160,536. PUBLISHED MAY 30, 1922.

157,913. DRESSES, COATS, CLOAKS, SUITS, AND EVENING WRAPS FOR WOMEN. COPELOF, STILLMAN & CO., INC., New York, N. Y.
Filed December 3, 1921. Serial No. 156,212. PUBLISHED MAY 16, 1922.

157,914. DOLLS. COSGROVE BROTHERS, INC., Milton and East Milton, Mass.
Filed April 3, 1922. Serial No. 161,672. PUBLISHED MAY 30, 1922.

157,915. PILE REMEDY. CRAVEN & LOVE, Pittsburgh, Pa.
Filed November 4, 1921. Serial No. 155,015. PUBLISHED MAY 23, 1922.

157,916. REFRIGERATORS. GEORGE R. CRAW, Fort Wayne, Ind.
Filed March 22, 1922. Serial No. 161,032. PUBLISHED MAY 23, 1922.

157,917. WOODEN FIGURES OF ANIMALS. CRAWFORD-WILSEY CO., Lynn, Mass.
Filed March 3, 1922. Serial No. 160,117. PUBLISHED MAY 23, 1922.

157,918. COTTON PIECE GOODS. JOHN P. CROZER, doing business as Samuel A. Crozer & Son, Upland, Pa.
Filed December 20, 1921. Serial No. 156,960. PUBLISHED MAY 30, 1922.

157,919. CERTAIN ARTICLES OF CLOTHING. THE THOMAS DALEY COMPANY, Watertown, Mass.
Filed November 2, 1921. Serial No. 154,919. PUBLISHED MAY 23, 1922.

157,920. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUP FOR MAKING THE SAME. SAM DAVIS, Indianapolis, Ind.
Filed February 28, 1922. Serial No. 159,957. PUBLISHED MAY 30, 1922.

157,921. SHEEPSKIN, KID, CALF, SATIN, SILK, WOOL, AND FABRIC SHOES, SLIPPERS, AND MOCCASINS. ADRA L. DAY, doing business as Ideal Baby Shoe Company, Danvers, Mass.
Filed May 9, 1921. Serial No. 147,416. PUBLISHED MAY 23, 1922.

157,922. ACID-RESISTING GARMENTS FORMED OF RUBBERIZED CLOTH—VIZ, APRONS, SLEEVES, AND LEGGINGS. THE DEFIANCE WELDING COMPANY, Defiance, Ohio.
Filed February 24, 1920. Serial No. 128,764. PUBLISHED MAY 23, 1922.

157,923. CIGARS. DE NOBILI CIGAR CO. INC., Long Island City and New York, N. Y.
Filed February 25, 1922. Serial No. 159,791. PUBLISHED MAY 30, 1922.

157,924. TOOTH PASTE. DENTIFRUIT, INC., Chicago, Ill.
Filed December 29, 1921. Serial No. 157,265. PUBLISHED MARCH 28, 1922.

157,925. SKIN CREAMS. DERMA-MANNA CO., New York, N. Y.
Filed December 30, 1921. Serial No. 157,306. PUBLISHED MARCH 28, 1922.

157,926. TABLETS TO BE USED FOR INDIGESTION. JOHN E. DE VAN, Baltimore, Md.
Filed November 30, 1918. Serial No. 114,428. PUBLISHED MAY 23, 1922.

157,927. PLAYING CARDS. A. DOUGHERTY, New York, N. Y.
Filed March 9, 1922. Serial No. 160,395. PUBLISHED MAY 30, 1922.

157,928. FUNGICIDES USED FOR SPRAYING OR DUSTING PLANTS. THE DOW CHEMICAL COMPANY, Midland, Mich.
Filed September 28, 1921. Serial No. 153,449. PUBLISHED MAY 16, 1922.

157,929. MEDICINAL OINTMENT USED AS SUCH FOR CUTANEOUS AND SUBCUTANEOUS AFFECTIONS. EDWARD J. DREISBACH, Philadelphia, Pa.
Filed September 21, 1921. Serial No. 153,177. PUBLISHED MARCH 21, 1922.

157,930. SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed September 28, 1921. Serial No. 153,450. PUBLISHED MAY 30, 1922.

157,931. HIGH EXPLOSIVES. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed March 27, 1922. Serial No. 161,305. PUBLISHED MAY 23, 1922.

157,932. AMUSEMENT DEVICES—NAMELY, ROLLER COASTERS. EASTERN ENGINEERING COMPANY, Revere, Mass.
Filed February 11, 1922. Serial No. 159,203. PUBLISHED MAY 23, 1922.

157,933. HAIR NETS. EASTERN HAIR NET TRADING CO., New York, N. Y.
Filed August 27, 1921. Serial No. 152,241. PUBLISHED MAY 23, 1922.

157,934. KNITTED OUTER WEAR, SWEATERS, COATS, CAPES, HOCKEY CAPS, HOODS, BATHING SUITS, JERSEYS, AND SKIRTS, UNDERSHIRTS, DRAWERS, ROMPERS, AND HOSIERY. ELBRO KNITTING MILLS, Milwaukee, Wis.
Filed September 10, 1921. Serial No. 152,793. PUBLISHED MAY 16, 1922.

157,935. ELECTROLYTE COMPOUND FOR BATTERIES. THE ELECTROGENE CHEMICAL CO., Cleveland, Ohio.
Filed December 5, 1921. Serial No. 156,267. PUBLISHED MAY 9, 1922.

157,936. CERTAIN NAMED TEXTILE FABRICS. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed November 9, 1921. Serial No. 155,218. PUBLISHED MAY 30, 1922.

157,937. LEATHER GLOVES, FABRIC GLOVES, AND MITTENS. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed December 1, 1921. Serial No. 156,154. PUBLISHED MAY 16, 1922.

157,938. LEATHER GLOVES, FABRIC GLOVES, AND MITTENS. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed December 1, 1921. Serial No. 156,155. PUBLISHED MAY 16, 1922.

157,939. SILK PIECE GOODS. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y.
Filed January 28, 1922. Serial No. 158,569. PUBLISHED MAY 16, 1922.

157,940. BLANK GUMMED LABELS. ALBERT W. ENGEL, doing business as Engel Manufacturing Company, Chicago, Ill.
Filed September 8, 1921. Serial No. 152,704. PUBLISHED MAY 23, 1922.

157,941. INSECTICIDE. ENOZ CHEMICAL COMPANY, Chicago, Ill.
Filed December 27, 1921. Serial No. 157,144. PUBLISHED MARCH 28, 1922.

157,942. REMEDY FOR THE TREATMENT OF BLENNORRHEA. L'EUTERAPICA, Turin, Italy.
Filed October 10, 1921. Serial No. 153,929. PUBLISHED MAY 23, 1922.

157,943. MOTION PICTURES. EXCEPTIONAL PICTURES CORPORATION, Wilmington, Del.
Filed October 22, 1921. Serial No. 154,439. PUBLISHED APRIL 25, 1922.

157,944. SILK, FELT, CLOTH, AND FUR CAPS. EXPERT CAP MFG. CO. INC., Trenton, N. J.
Filed January 12, 1921. Serial No. 142,157. PUBLISHED MAY 16, 1922.

157,945. ANTISEPTIC MOUTH WASH FOR TREATMENT OF PYORRHEA AND DISEASES OF THE GUMS. GLENMOORE BARTHEL FEWELL, Birmingham, Ala.
Filed October 12, 1921. Serial No. 154,059. PUBLISHED JANUARY 31, 1922.

157,946. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed February 13, 1922. Serial No. 159,252. PUBLISHED MAY 16, 1922.

157,947. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed February 13, 1922. Serial No. 159,253. PUBLISHED MAY 16, 1922.

157,948. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed February 13, 1922. Serial No. 159,254. PUBLISHED MAY 16, 1922.

157,949. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed February 13, 1922. Serial No. 159,255. PUBLISHED MAY 16, 1922.

157,950. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed February 13, 1922. Serial No. 159,256. PUBLISHED MAY 16, 1922.

157,951. HEADACHE POWDERS. FOX DRUG CO., Portland, Oreg.
Filed October 17, 1921. Serial No. 154,182. PUBLISHED MARCH 21, 1922.

157,952. HOSIERY. FREEDMAN & CO., Harrisburg, Pa.
Filed November 21, 1921. Serial No. 155,675. PUBLISHED MAY 16, 1922.

157,953. WOMEN'S AND GIRLS' DRESSES. FRIEDMAN DRESS COMPANY, INC., New York, N. Y.
Filed September 24, 1921. Serial No. 153,283. PUBLISHED MAY 23, 1922.

157,954. DISINFECTANTS, INSECTICIDE, AND DEODORANT. FURMAN COMPANY, San Antonio, Tex.
Filed November 15, 1921. Serial No. 155,399. PUBLISHED MAY 9, 1922.

157,955. HAIR NETS. GALCHINSKY BROS., New York, N. Y.
Filed January 9, 1922. Serial No. 157,666. PUBLISHED MAY 30, 1922.

157,956. IRON HEADS FOR GOLF CLUBS AND IRON-HEADED GOLF CLUBS. WM. GIBSON & CO. LTD., Kinghorn, Fife, Scotland.
Filed February 18, 1922. Serial No. 159,505. PUBLISHED MAY 23, 1922.

157,957. CAPS FOR MEN, WOMEN, AND CHILDREN. THE GILSON COMPANY, Chicago, Ill.
Filed September 28, 1921. Serial No. 153,453. PUBLISHED MAY 23, 1922.

157,958. WOOLEN BLANKETS. I. GINZKEY-MAFFERSDORF, INC., New York, N. Y.
Filed February 28, 1922. Serial No. 159,963. PUBLISHED MAY 30, 1922.

157,959. WOOLEN BLANKETS. I. GINZKEY-MAFFERSDORF, INC., New York, N. Y.
Filed February 28, 1922. Serial No. 159,964. PUBLISHED MAY 30, 1922.

157,960. WOOLEN BLANKETS. I. GINZKEY-MAFFERSDORF, INC., New York, N. Y.
Filed February 28, 1922. Serial No. 159,965. PUBLISHED MAY 30, 1922.

157,961. HOSIERY. GLOTEX HOSIERY CO., New York, N. Y.
Filed November 22, 1921. Serial No. 155,747. PUBLISHED MAY 16, 1922.

157,962. CHAMPAGNES AND WINES. GOLD SEAL PRODUCTS COMPANY, INC., Urbana, N. Y.
Filed June 21, 1921. Serial No. 149,452. PUBLISHED MAY 16, 1922.

157,963. COATS, JACKETS, VESTS, WAISTCOATS, TROUSERS, KNICKERBOCKERS, OVERCOATS, TOPCOATS, AND SUITS. DAVID S. GOLDSTEIN & CO., Chicago, Ill.
Filed November 21, 1921. Serial No. 155,684. PUBLISHED MAY 16, 1922.

157,964. SILK RIBBONS AND SILK AND COTTON RIBBONS. GOLDY BROTHERS, New York, N. Y.
Filed February 1, 1922. Serial No. 158,708. PUBLISHED MAY 16, 1922.

157,965. MALT AND HOP EXTRACT FOR BEVERAGES. GOTTFRIED KRUEGER BREWING COMPANY, Newark, N. J.
Filed January 7, 1922. Serial No. 157,618. PUBLISHED MAY 16, 1922.

157,966. ARTICLES MADE OF TEXTILE—NAMELY, LINEN, CANVAS, COTTON, AND SAIL CLOTH. SAID GOODS ARE IN THE PIECE. FELIX GOULED, New York, N. Y.
Filed July 11, 1921. Serial No. 150,234. PUBLISHED MAY 16, 1922.

157,967. NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. GRAPE OLA PRODUCTS CORPORATION, New York, N. Y.
Filed December 23, 1919. Serial No. 126,371. PUBLISHED MAY 30, 1922.

157,968. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. F. GREENWOOD, INC., Paterson, N. J.
Filed March 28, 1922. Serial No. 161,358. PUBLISHED MAY 16, 1922.

157,969. NONINTOXICATING, NONALCOHOLIC, NONCEREAL, MALTLESS FRUIT BEVERAGES SOLD AS A SOFT DRINK AND SIRUPS USED IN PREPARATION OF SAME. THE HAMBURGER CO., Chicago, Ill.
Filed March 31, 1922. Serial No. 161,553. PUBLISHED MAY 16, 1922.

157,970. SPEEDOMETERS. HENNING HAMMARLUND, Svangsta, Sweden.
Filed October 14, 1920. Serial No. 138,288. PUBLISHED MAY 16, 1922.

157,971. SNOWSHOES, SKIS, SKI BINDINGS, SKI POLES, SLEDS, TOBOGGANS, HOCKEY STICKS, BASEBALLS, BASEBALL GLOVES AND MITTS. HANSCOM HARDWARE CO., Haverhill, Mass.
Filed February 16, 1922. Serial No. 159,414. PUBLISHED MAY 30, 1922.

157,972. LIQUID PREPARATION FOR CERTAIN NAMED USES. HARRY HARDEN, trading as The Famous Manufacturing Company, London, Ohio.
Filed October 29, 1921. Serial No. 154,743. PUBLISHED MAY 9, 1922.

157,973. SKIN CREAM. C. B. HARKER, STAGG & MORGAN, LIMITED, doing business as Peldo Works, London, England.
Filed October 15, 1921. Serial No. 154,145. PUBLISHED MAY 23, 1922.

157,974. A PROPRIETARY MEDICINE—NAMELY, A VITAMINE PREPARATION FOR USE AS A GENERAL TONIC. HARRELL DRUG CO., INC., Selma, Ala.
Filed December 7, 1921. Serial No. 156,387. PUBLISHED MARCH 21, 1922.

157,975. CIGARS. JOHN C. HERMAN & CO., Harrisburg, Pa.
Filed February 1, 1922. Serial No. 158,714. PUBLISHED MAY 16, 1922.

157,976. MEDICINE TO BE USED FOR TREATING BLOOD POISONING OR IMPOVERISHED BLOOD. JOSEPH M. HILLES, Bridgeport, Pa.
Filed August 18, 1921. Serial No. 151,916. PUBLISHED MARCH 21, 1922.

157,977. GOLF BALLS. JOSEPH V. HOGUE, New York, N. Y.
Filed March 15, 1922. Serial No. 160,704. PUBLISHED MAY 30, 1922.

157,978. DEVICE FOR ENABLING A PERSON TO STUDY AND PERFECT HIMSELF IN THE GAME OF GOLF. HOLMAC, INC., New York, N. Y.
Filed April 14, 1922. Serial No. 162,294. PUBLISHED MAY 30, 1922.

157,979. CARBONATED SOFT DRINKS AND SIRUPS THEREFOR. H. P. HOOD & SONS, INC., Boston, Mass.
Filed May 18, 1921. Serial No. 147,877. PUBLISHED MAY 30, 1922.

157,980. STEEL SHAFTS FOR GOLF CLUBS. THE HORTON MANUFACTURING CO., Bristol, Conn.
Filed January 6, 1922. Serial No. 157,573. PUBLISHED MAY 23, 1922.

157,981. GINGER ALE, ROOT BEER, SARSAPARILLA, BIRCH BEER, ORANGE AND LEMON SOUR. THE HUDOR CO., Buffalo, N. Y.
Filed January 19, 1922. Serial No. 158,120. PUBLISHED MAY 30, 1922.

157,982. HOSIERY. A. C. HULSE, Jr., New York, N. Y.
Filed August 20, 1921. Serial No. 151,988. PUBLISHED MAY 23, 1922.

157,983. MEN'S AND BOYS' CRAVATS. HUT NECKWEAR COMPANY, New York, N. Y.
Filed September 24, 1921. Serial No. 153,285. PUBLISHED MAY 16, 1922.

157,984. CORSETS. THERESE HYNDS, New York, N. Y.
Filed December 8, 1921. Serial No. 156,448. PUBLISHED MAY 23, 1922.

157,985. WRITING PAPER. IMPORT PAPER COMPANY, Chicago, Ill.
Filed March 8, 1922. Serial No. 160,353. PUBLISHED MAY 16, 1922.

157,986. WRITING PAPER. IMPORT PAPER COMPANY, Chicago, Ill.
Filed March 8, 1922. Serial No. 160,352. PUBLISHED MAY 16, 1922.

157,987. SALT. INDEPENDENT SALT COMPANY, New York, N. Y.
Filed December 30, 1921. Serial No. 157,318. PUBLISHED MAY 9, 1922.

157,988. NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUPS FOR MAKING THE SAME. IRONDEQUOIT FRUIT JUICE CO., Irondequoit, N. Y.
Filed January 17, 1922. Serial No. 158,042. PUBLISHED MAY 23, 1922.

157,989. CERTAIN NAMED TOILET PREPARATIONS. DANIEL JAQUET, trading as Parfums Fontanis, Neuilly sur Seine, Paris, France.
Filed August 20, 1921. Serial No. 151,989. PUBLISHED MAY 9, 1922.

157,990. SILK, SATIN, CRÊPE DE CHINE, AND TEXTILE-FABRIC UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. JOAN UNDERWEAR CORPORATION, New York, N. Y.
Filed September 8, 1921. Serial No. 152,710. PUBLISHED MAY 16, 1922.

157,991. MEDICINAL PREPARATION FOR CERTAIN NAMED USES. ALEXANDER KENDRICK JOHNSON, Nashville, Tenn.
Filed March 5, 1921. Serial No. 144,333. PUBLISHED OCTOBER 18, 1921.

157,992. GUMMED PAPER—THAT IS, PAPER COATED ON ONE SIDE WITH MUCILAGE OR GUM AND USED FOR LABELS. SAMUEL JONES & COMPANY, Newark, N. J.
Filed October 10, 1921. Serial No. 153,939. PUBLISHED MAY 16, 1922.

157,993. MATCHES. JÖNKÖPINGS OCH VULCANS TÄNDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed December 29, 1921. Serial No. 157,275. PUBLISHED MAY 30, 1922.

157,994. HAIR NETS. JORDAN MARSH COMPANY, Boston, Mass.
Filed February 8, 1922. Serial No. 159,037. PUBLISHED MAY 30, 1922.

157,995. DOLLS AND THEIR PARTS. KIMMER & REINHARDT, A. G., Waltershausen, Gotha, Germany.
Filed April 17, 1922. Serial No. 162,421. PUBLISHED MAY 30, 1922.

157,996. CIGARS. KING-FERREE CO. INC., Greensboro, N. C.
Filed January 25, 1922. Serial No. 158,426. PUBLISHED MAY 23, 1922.

157,997. TOY BANKS. LESLIE I. KING, Columbus, Ohio.
Filed March 27, 1922. Serial No. 161,320. PUBLISHED MAY 30, 1922.

157,998. CHIMNEY CLEANERS. T. G. KOHL COMPANY, Wausau, Wis.
Filed December 15, 1921. Serial No. 156,746. PUBLISHED MAY 16, 1922.

157,999. HATS FOR WOMEN. KOHN, ADLER & CO., Philadelphia, Pa.
Filed September 19, 1921. Serial No. 153,089. PUBLISHED MAY 23, 1922.

158,000. CIGARETTES. LADY NIC, INC., New York, N. Y.
Filed January 17, 1922. Serial No. 158,049. PUBLISHED MAY 30, 1922.

158,001. PHOSPHORUS. LA SOCIETE DES PRODUCTS CHIMIQUES COIGNET, Paris, France.
Filed December 30, 1921. Serial No. 157,323. PUBLISHED MAY 9, 1922.

158,002. A COMPOUND FOR CERTAIN NAMED USES. THE LIONNE COMPANY, Needham, Mass.
Filed December 13, 1921. Serial No. 156,643. PUBLISHED MARCH 21, 1922.

158,003. LAXATIVE TABLETS. ELLSWORTH LOESCH, doing business as Bowelax Co., Cleveland, Ohio.
Filed December 28, 1921. Serial No. 157,227. PUBLISHED MAY 9, 1922.

158,004. BOND PAPER. LOUISVILLE PAPER CO., Louisville, Ky.
Filed March 16, 1922. Serial No. 160,766. PUBLISHED MAY 16, 1922.

158,005. THYMOL, MENTHOL, CHLOROPHYL, ESSENTIAL OILS, AND CHEMICALS FOR THE PRODUCTION OF PERFUMES AND PERFUMING PURPOSES. JULIAN W. LYON & CO., New York, N. Y.
Filed December 30, 1921. Serial No. 157,321. PUBLISHED MAY 9, 1922.

158,006. DOLL HEADS. MCCROSKY BROS., Oakland, Calif.
Filed November 26, 1920. Serial No. 140,192. PUBLISHED MAY 30, 1922.

158,007. MIDDY BLOUSES, CHILDREN'S DRESSES, AND BOYS' WASHSUITS. MAASS & KEMPER, INC., Baltimore, Md.
Filed December 7, 1921. Serial No. 156,394. PUBLISHED MAY 23, 1922.

158,008. RAINCOATS. WARREN MACPHERSON, doing business as Cambridge Rubber Company, Cambridge, Mass.
Filed December 8, 1921. Serial No. 156,455. PUBLISHED MAY 23, 1922.

158,009. TOILET PREPARATIONS—NAMELY, PERFUMES AND TOILET WATERS. I. MAGNIN & CO., San Francisco, Calif., and New York, N. Y.
Filed October 12, 1921. Serial No. 154,040. PUBLISHED MARCH 28, 1922.

158,010. A DEVELOPER FOR PHOTOGRAPHIC PURPOSES. MALLINCKRODT CHEMICAL WORKS, St. Louis, Mo.
Filed July 14, 1921. Serial No. 150,364. PUBLISHED JANUARY 3, 1922.

158,011. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed February 25, 1922. Serial No. 159,804. PUBLISHED MAY 30, 1922.

158,012. MISSES' AND WOMEN'S TEXTILE OUTER GARMENTS COMMERCIALLY KNOWN AS DRESSES. THE MARCELLE CORPORATION, Philadelphia, Pa.
Filed December 8, 1921. Serial No. 156,459. PUBLISHED JUNE 13, 1922.

158,013. MEDICINES FOR CERTAIN NAMED USES, DENTIFRICES, AND MOUTH WASHES. JOHN E. MARRIOTT, Latrobe, Pa.
Filed November 15, 1921. Serial No. 155,414. PUBLISHED MAY 9, 1922.

158,014. CLOTHS AND STUFFS OF WOOL, WORSTED, OR HAIR. MARTIN SONS AND COMPANY, LIMITED, Lindley, Borough of Huddersfield, England.
Filed February 3, 1922. Serial No. 158,832. PUBLISHED MAY 16, 1922.

158,015. MEDICINAL PREPARATION USED IN THE TREATMENT OF DISEASES OF WOMEN. MARTIN AND NEWNOM, Flint, Mich.
Filed December 3, 1921. Serial No. 156,232. PUBLISHED MARCH 21, 1922.

158,016. WOOL OILS AND FULLING AND SCOURING OILS. MASURY-YOUNG COMPANY, Boston, Mass.
Filed July 11, 1921. Serial No. 150,246. PUBLISHED MAY 16, 1922.

158,017. PREPARATION FOR EXTERNAL APPLICATION IN THE TREATMENT OF RHEUMATISM, NEURALGIA, AND OTHER DISEASES. CHARLES H. MATSON, doing business as C. H. Matson & Co., Jersey City, N. J.
Filed October 17, 1921. Serial No. 154,233. PUBLISHED MAY 9, 1922.

158,018. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. THE MAY HOSIERY MILLS, Burlington, N. C.
Filed October 1, 1921. Serial No. 153,611. PUBLISHED MAY 23, 1922.

158,019. BLANK HOME BUDGET BOOKS PUBLISHED MONTHLY AND AT OTHER INTERVALS. THE MENTER CO., INC., New York, N. Y.
Filed February 10, 1922. Serial No. 159,160. PUBLISHED MAY 23, 1922.

158,020. MEDICINE FOR THE TREATMENT OF HEADACHE AND NEURALGIA, FOR PAINS IN LA GRIPPE, AND FOR SIMILAR ACHES AND PAINS. C. G. METCALFE, Georgiana, Ala.
Filed April 16, 1921. Serial No. 146,267. PUBLISHED MAY 30, 1922.

158,021. LADIES' BLOUSES. HENRY METELES, New York, N. Y.
Filed October 28, 1921. Serial No. 154,698. PUBLISHED MAY 23, 1922.

158,022. MEN'S AND BOYS' SUITS AND OVERCOATS. MICHAELS STERN & CO., Rochester, N. Y.
Filed December 5, 1921. Serial No. 156,307. PUBLISHED MAY 16, 1922.

158,023. MEN'S AND BOYS' SUITS AND OVERCOATS. MICHAELS STERN & CO., Rochester, N. Y.
Filed December 5, 1921. Serial No. 156,308. PUBLISHED MAY 16, 1922.

158,024. CERTAIN ARTICLES OF CLOTHING. J. A. MIGEL INC., New York, N. Y.
Filed October 3, 1921. Serial No. 153,678. PUBLISHED MAY 16, 1922.

158,025. CERTAIN ARTICLES OF CLOTHING. J. A. MIGEL, INC., New York, N. Y.
Filed October 3, 1921. Serial No. 153,679. PUBLISHED MAY 16, 1922.

158,026. CERTAIN ARTICLES OF CLOTHING. J. A. MIGEL INC., New York, N. Y.
Filed October 3, 1921. Serial No. 153,680. PUBLISHED MAY 16, 1922.

158,027. TOY DART OR ARROW. JAMES C. MILLIGAN, Pittsburgh, Pa.
Filed February 28, 1922. Serial No. 159,714. PUBLISHED MAY 23, 1922.

158,028. DRAPERIES AND UPHOLSTERIES—NAMELY, PANEL CURTAINS, SIDE CURTAINS, WINDOW CURTAINS, VALANCES, TAPESTRIES, AND TEXTILE FURNITURE COVERINGS. LESHER, WHITMAN & CO., INC., New York, N. Y.
Filed August 16, 1920. Serial No. 136,161. PUBLISHED MAY 16, 1922.

158,029. TOOTHBRUSHES, HAIRBRUSHES, SHAVING BRUSHES, BATH BRUSHES, AND VEGETABLE BRUSHES. THE MILLS BROTHERS COMPANY, doing business as The American Products Company, Cincinnati, Ohio.
Filed April 8, 1922. Serial No. 161,934. PUBLISHED MAY 23, 1922.

158,030. MALTLESS CEREAL SIRUP FOR BEVERAGES. MILWAUKEE-WAUKESHA BREWING COMPANY, Waukesha, Wis.
Filed October 28, 1920. Serial No. 138,915. PUBLISHED MAY 30, 1922.

158,031. MALT SIRUP FOR BEVERAGES. MILWAUKEE-WAUKESHA BREWING COMPANY, Waukesha, Wis.
Filed October 28, 1920. Serial No. 138,916. PUBLISHED MAY 30, 1922.

158,032. HOSIERY. MOCK & JUDSON, New York, N. Y.
Filed November 25, 1921. Serial No. 155,901. PUBLISHED MAY 23, 1922.

158,033. EMBROCATIONS KNOWN AS SPINAL MASSAGE CREAMS. MUCINE PRODUCTS COMPANY, Chicago, Ill.
Filed May 13, 1921. Serial No. 147,673. PUBLISHED MAY 9, 1922.

158,034. LINIMENT FOR CERTAIN NAMED USES. GEORGE E. MURRY, Pequea, Pa.
Filed October 17, 1921. Serial No. 154,232. PUBLISHED MAY 9, 1922.

158,035. EYE TONIC. KAZIMIERZ J. MUSZYNSKI, Buffalo, N. Y.
Filed September 3, 1921. Serial No. 152,573. PUBLISHED MARCH 21, 1922.

158,036. BATHING SUITS. MYERS MANUFACTURING CO., Los Angeles, Calif.
Filed December 1, 1921. Serial No. 156,170. PUBLISHED MAY 16, 1922.

158,037. CERTAIN NAMED MEDICINAL PREPARATIONS. NATIONAL CONSOLIDATED DRUG CO., Great Falls, Mont.
Filed July 14, 1921. Serial No. 150,368. PUBLISHED MAY 23, 1922.

158,038. GARTERS. THE NATIONAL GARTER COMPANY, Cincinnati, Ohio.
Filed September 26, 1921. Serial No. 153,363. PUBLISHED MAY 16, 1922.

158,039. MILLING CUTTERS, REAMERS, COUNTERBORES, SPECIAL METAL-WORKING SMALL TOOLS MADE TO ORDER. THE NATIONAL TOOL COMPANY, Cleveland, Ohio.
Filed January 3, 1922. Serial No. 157,439. PUBLISHED MAY 16, 1922.

158,040. WAIST UNION SUITS, UNION SUITS, UNDERSHIRTS, AND DRAWERS. NAZARETH WAIST CO., Nazareth, Pa.
Filed August 4, 1921. Serial No. 151,371. PUBLISHED MAY 30, 1922.

158,041. REMEDY FOR THE PREVENTION AND RELIEF OF SEASICKNESS. JOSEPH S. NIEDERKORN, Versailles, Ohio.
Filed December 27, 1921. Serial No. 157,167. PUBLISHED MARCH 28, 1922.

158,042. GENERAL MEDICINAL TONIC. THE NU-IRON LABORATORY INCORPORATED, Denver, Colo.
Filed September 30, 1921. Serial No. 153,562. PUBLISHED MAY 23, 1922.

158,043. A GENERAL TONIC FOR POULTRY, PIGEONS, AND TURKEYS. NU-LIFE COMPANY, Cuyahoga Falls, Ohio.
Filed August 23, 1921. Serial No. 152,089. PUBLISHED MAY 9, 1922.

158,044. HAIR TONIC. KATHARYN A. O'CONNOR, New York, N. Y.
Filed December 6, 1921. Serial No. 156,337. PUBLISHED MARCH 21, 1922.

158,045. HATS FOR LADIES, MISSES, AND CHILDREN. OGUS, RABINOVITCH & OGUS CO., Chicago, Ill.
Filed September 17, 1921. Serial No. 153,048. PUBLISHED MAY 23, 1922.

158,046. CERTAIN NAMED TOILET PREPARATIONS. CHARLES C. OLIVER, doing business as Oliver-Eaton Co., Montclair, N. J.
Filed October 18, 1921. Serial No. 154,283. PUBLISHED MAY 9, 1922.

158,047. MEN'S HATS. O'ROURKE, EUBANKS HAT CO., San Francisco, Calif.
Filed November 28, 1921. Serial No. 156,014. PUBLISHED MAY 23, 1922.

158,048. BLEACHING MATERIALS. OTTO OSTEN, Chicago, Ill.
Filed January 3, 1922. Serial No. 157,440. PUBLISHED MAY 16, 1922.

158,049. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed February 1, 1922. Serial No. 158,724. PUBLISHED MAY 16, 1922.

158,050. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed February 1, 1922. Serial No. 158,726. PUBLISHED MAY 16, 1922.

158,051. LIQUID PREPARATION FOR TREATING AND RELIEVING PAIN TO THE GUMS. BARNEY L. PALLREYESCH, doing business as Pals Chemical Company, Brooklyn, N. Y.
Filed November 15, 1921. Serial No. 155,417. PUBLISHED MAY 9, 1922.

158,052. PERFUMES, TOILET WATERS, SACHETS, AND SACHET POWDERS. PARFUMERIE HOUBIGANT, Paris, France, assignor to Houbigant, Inc., New York, N. Y., a Corporation of New York.
Filed November 12, 1920. Serial No. 139,575. PUBLISHED MAY 10, 1921.

158,053. SALVE FOR USE IN TREATMENT OF COLDS, COUGHS, INFLUENZA, AND SIMILAR AILMENTS, BURNS, INSECT BITES, AND BOILS. PARK LABORATORY COMPANY, San Antonio, Tex.
Filed January 14, 1921. Serial No. 142,268. PUBLISHED MAY 9, 1922.

158,054. SCALP TONIC. HARRY A. PARRISH, doing business as The Pyramid Products Co., Berkeley, Calif.
Filed August 17, 1921. Serial No. 151,887. PUBLISHED MAY 30, 1922.

158,055. SHEETINGS. PELZER MANUFACTURING COMPANY, Pelzer, S. C.
Filed February 2, 1922. Serial No. 158,799. PUBLISHED MAY 16, 1922.

158,056. SWEATERS. THE PENNSYLVANIA KNITTING MILLS, Philadelphia, Pa.
Filed August 18, 1921. Serial No. 151,924. PUBLISHED MAY 16, 1922.

158,057. CHILDREN'S KNIT UNDERWEAR. THE PERRY KNITTING COMPANY, Perry, N. Y.
Filed August 17, 1921. Serial No. 151,886. PUBLISHED MAY 16, 1922.

158,058. MEDICINAL FOOD PRODUCT FOR USE AS A GENERAL TONIC. THE PHYTAMIN CORPORATION, Wilmington, Del., and New York, N. Y.
Filed December 27, 1921. Serial No. 157,171. PUBLISHED MAY 9, 1922.

158,059. MEDICINAL FOOD PRODUCT FOR USE AS A GENERAL TONIC. THE PHYTAMIN CORPORATION, Wilmington, Del., and New York, N. Y.
Filed December 27, 1921. Serial No. 157,172. PUBLISHED MAY 9, 1922.

158,060. GAMES OF THE TABLE-BOARD TYPE IN WHICH A SERIES OF COMBINATIONS OF NUMBERS OR OTHER SYMBOLS ARE CAUSED TO APPEAR BY SHAKING THE GAME. PIROXLOID PRODUCTS CORPORATION, New York, N. Y.
Filed November 16, 1921. Serial No. 155,445. PUBLISHED MAY 30, 1922.

158,061. OUTER GARMENT FOR WOMEN AND GIRLS, ADAPTED TO BE WORN EITHER AS A DRESS OR AS KNICKERBOCKERS. VIRGINIA POPE, New York, N. Y.
Filed November 1, 1921. Serial No. 154,887. PUBLISHED MAY 23, 1922.

158,062. EXPLOSIVE POWDERS, NITRATED (GUN) COTTON, DYNAMITE, DETONATORS, ELECTRIC DETONATORS, SAFETY FUSES, CARTRIDGES, FIREARMS, EQUIPMENTS, AND PROJECTILES. POUDERRIES REUNIES DE BELGIQUE SOCIETE ANONYME, Brussels, Belgium.
Filed May 31, 1921. Serial No. 148,453. PUBLISHED MAY 16, 1922.

158,063. MEDICINAL CAPSULES FOR HAY FEVER, ASTHMA, CATARRH, AND BRONCHIAL AND THROAT AFFECTIONS. EARL W. RAHN, Cleveland, Ohio.
Filed October 31, 1921. Serial No. 154,845. PUBLISHED MARCH 21, 1922.

158,064. AN ANTISEPTIC DEODORANT POWDER. D. G. REEDER, doing business as Reeder Manufacturing Company, Atlanta, Ga.
Filed October 27, 1921. Serial No. 154,663. PUBLISHED MAY 9, 1922.

158,065. MALTLESS FLAVORING SIRUPS USED IN THE PREPARATION OF SOFT DRINKS. J. L. REESE INC., Albany, N. Y.
Filed March 15, 1921. Serial No. 144,787. PUBLISHED MAY 30, 1922.

158,066. CIGARS. REID, MURDOCH & Co., Chicago, Ill.
Filed December 16, 1921. Serial No. 156,803. PUBLISHED MAY 30, 1922.

158,067. CIGARS. REID, MURDOCH & Co., Chicago, Ill.
Filed December 16, 1921. Serial No. 156,805. PUBLISHED MAY 30, 1922.

158,068. RAT, MICE, AND SQUIRREL POISON. BLAIR B. REILLY, doing business as Cyclone Rat Destroyer Company, Audubon, Iowa.
Filed December 27, 1921. Serial No. 157,177. PUBLISHED MAY 9, 1922.

158,069. ASH RECEIVERS AND TRAYS. RELIANCE METAL SPINNING & STAMPING CO. INC., Brooklyn, N. Y.
Filed January 19, 1922. Serial No. 158,150. PUBLISHED MAY 30, 1922.

158,070. SHOE SOLES AND HEELS MADE OF RUBBER OR OF COMPOSITION RUBBER. THE REPUBLIC RUBBER CORPORATION, Youngstown, Ohio.
Filed January 6, 1921. Serial No. 141,925. PUBLISHED MAY 23, 1922.

158,071. HYDRAULIC JACKS. C. W. REYNOLDS, New York, N. Y.
Filed November 18, 1921. Serial No. 155,573. PUBLISHED MAY 16, 1922.

158,072. PREPARATION FOR THE REMOVAL OF SUPERFLUOUS HAIR. A. J. RICHARDSON, Crafton Borough, Pa.
Filed October 3, 1921. Serial No. 153,693. PUBLISHED MAY 9, 1922.

158,073. MEN'S DRESS SHIRTS. GEORGE A. RIPLEY, doing business as Ripley Shirt Manufacturing Company, Dallas, Tex.
Filed December 2, 1921. Serial No. 156,190. PUBLISHED MAY 16, 1922.

158,074. COMBINATION CAMISOLE AND DRAWERS. ELLA L. ROBERTS, Los Angeles, Calif.
Filed July 2, 1921. Serial No. 149,979. PUBLISHED MAY 23, 1922.

158,075. CHILDREN'S FROCKS AND ROMPERS FOR OUTERWEAR. DOROTHY MEYERS ROBLES, Los Angeles, Calif.
Filed October 3, 1921. Serial No. 153,691. PUBLISHED MAY 16, 1922.

158,076. BINDERS, BLANK BOOKS, CLIP BOARDS, COPY CLOTHS, VARIOUS PAPERS AND TABLETS, AND FASTENERS, TRAIN ORDERS, WAYBILLS, FILE BACKS AND FOLDERS, AND METAL FILE BOXES. ROCKWELL-BARNES COMPANY, Chicago, Ill.
Filed December 16, 1921. Serial No. 156,808. PUBLISHED MAY 30, 1922.

158,077. DRESSES, PETTICOATS, BLOUSES, SHIRT WAISTS, AND APRONS. ROSEBUD MFG. CO., New York, N. Y.
Filed December 15, 1921. Serial No. 156,751. PUBLISHED MAY 30, 1922.

158,078. MALT EXTRACT. M. C. ROSENFELD COMPANY, doing business as Standard Malt Product Co., Boston, Mass.
Filed May 18, 1921. Serial No. 147,892. PUBLISHED MAY 16, 1922.

158,079. LINIMENT—THAT IS, AN ALCOHOLIC RUB. THE ROSSVILLE COMPANY, Lawrenceburg, Ind.
Filed July 15, 1921. Serial No. 150,409. PUBLISHED MAY 9, 1922.

158,080. WAXED PAPER, WRAPPING PAPER, CREPE PAPER, TISSUE PAPER, AND TOILET PAPER. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 18, 1921. Serial No. 142,423. PUBLISHED MAY 30, 1922.

158,081. NONALCOHOLIC MALT, CEREAL BEVERAGE SOLD AS SOFT DRINK. J. W. SAPPINGTON, doing business as The Two & Three Quarters Company, Fort Worth, Tex.
Filed November 26, 1920. Serial No. 140,211. PUBLISHED MAY 16, 1922.

158,082. STYLOGRAPHIC INK PENCILS. HENRY A. SCHMIDT, College Point, N. Y.
Filed March 14, 1921. Serial No. 144,744. PUBLISHED MAY 23, 1922.

158,083. GINGER ALE. JOHN Z. SCHONHOFF, trading as Lord Baltimore Bottling Company, Baltimore, Md.
Filed March 7, 1922. Serial No. 160,306. PUBLISHED MAY 16, 1922.

158,084. MALT EXTRACTS TO BE USED FOR BEVERAGE PURPOSES. SCHRUMM-SCHRUMM CO., Chicago, Ill.
Filed January 23, 1922. Serial No. 158,337. PUBLISHED MAY 23, 1922.

158,085. MEDICINAL TONIC FOR TREATMENT OF RHEUMATISM. SHARP & DOHME, Baltimore, Md.
Filed December 24, 1921. Serial No. 157,111. PUBLISHED MARCH 28, 1922.

158,086. MEDICINAL PREPARATION FOR THE TREATMENT OF CERTAIN NAMED DISEASES. SHEPARD'S PHARMACEUTICAL COMPANY, St. Louis, Mo.
Filed December 27, 1921. Serial No. 157,182. PUBLISHED MARCH 28, 1922.

158,087. WOOL, WOOL AND COTTON, AND WOOL AND SILK MIXTURE FABRICS IN THE PIECE. SHLIVEK BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed February 13, 1922. Serial No. 159,289. PUBLISHED MAY 16, 1922.

158,088. WOOL, WOOL AND COTTON, AND WOOL AND SILK MIXTURE FABRICS IN THE PIECE. SHLIVEK BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed February 13, 1922. Serial No. 159,291. PUBLISHED MAY 16, 1922.

158,089. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y.
Filed February 27, 1922. Serial No. 159,832. PUBLISHED MAY 30, 1922.

158,090. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y.
Filed February 27, 1922. Serial No. 159,834. PUBLISHED MAY 30, 1922.

158,091. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y.
Filed February 27, 1922. Serial No. 159,837. PUBLISHED MAY 30, 1922.

158,092. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y.
Filed February 27, 1922. Serial No. 159,838. PUBLISHED MAY 30, 1922.

158,093. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y.
Filed February 27, 1922. Serial No. 159,839. PUBLISHED MAY 30, 1922.

158,094. NONCEREAL, NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. E. & H. SILVERMAN, doing business as The First Aid Syrup Co., Hazleton, Pa.
Filed February 20, 1922. Serial No. 159,621. PUBLISHED MAY 16, 1922.

158,095. HAIR NETS. SITROUX IMPORTING COMPANY, Inc., New York, N. Y.
Filed January 28, 1922. Serial No. 158,584. PUBLISHED MAY 30, 1922.

158,096. TOOTHBRUSHES. E. T. SLATTERY COMPANY, Boston, Mass.
Filed April 5, 1922. Serial No. 161,707. PUBLISHED MAY 23, 1922.

158,097. TOY BICYCLE. SMITH MANUFACTURING CO. INC., Ellensburg, Wash.
Filed March 14, 1921. Serial No. 144,751. PUBLISHED MAY 16, 1922.

158,098. CERTAIN MEDICINES FOR STOCK, HORSES, DOGS, AND POULTRY. DR. SMITH'S STOCK-VIGOR REMEDIES COMPANY, Atlanta, Ga.
Filed December 29, 1921. Serial No. 157,283. PUBLISHED MAY 9, 1922.

158,099. A MEDICAL COMPOUND FOR TREATING COLDS, COUGHS, HAY FEVER, CATARRH, ETC. SNUFFO COMPANY, Chicago, Ill.
Filed November 12, 1921. Serial No. 155,323. PUBLISHED MARCH 28, 1922.

158,100. CARBON REMOVER OF A CHEMICAL NATURE. SOLVENO CHEMICAL CO., Wilmington, Del.
Filed August 22, 1921. Serial No. 152,041. PUBLISHED MAY 9, 1922.

158,101. NONALCOHOLIC, MALTLESS, CELERY-TONIC BEVERAGE. MAX SOPSHIN, doing business as Split Rock Bottling Works, Mount Vernon, N. Y.
Filed March 30, 1922. Serial No. 161,510. PUBLISHED MAY 30, 1922.

158,102. WATER AND OTHER LIQUID SPRAYING SYSTEMS AND PARTS OF SAID SYSTEMS. SPRAY ENGINEERING COMPANY, Boston, Mass.
Filed October 21, 1921. Serial No. 154,421. PUBLISHED MAY 16, 1922.

158,103. NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUPS AND EXTRACTS FOR MAKING SAME. STANDARD BOTTLING COMPANY, LIMITED, Medicine Hat, Alberta, Canada.
Filed December 16, 1921. Serial No. 156,809. PUBLISHED MAY 30, 1922.

158,104. NONALCOHOLIC, MALTLESS BEVERAGE AND AN EXTRACT FOR MAKING THE SAME. STAR EXTRACT WORKS, New York, N. Y.
Filed March 29, 1922. Serial No. 161,456. PUBLISHED MAY 16, 1922.

158,105. OINTMENT FOR CERTAIN NAMED USES. ABRAHAM M. STEIN, Los Angeles, Calif.
Filed October 11, 1921. Serial No. 153,996. PUBLISHED MARCH 21, 1922.

158,106. FIREMEN'S HEAVY DUCK NIGHT COATS, FIREMEN'S DUCK NIGHT PANTS, DUCK HUNTING COATS, AND WHITE DUCK PACKERS' FROCKS. ST. JOSEPH TENT & AWNING CO., St. Joseph, Mo.
Filed October 8, 1921. Serial No. 153,702. PUBLISHED MAY 23, 1922.

158,107. GLOVES, LEATHER AND FABRIC. STEINBERGER BROS. LOBL CO., New York, N. Y.
Filed September 27, 1921. Serial No. 153,411. PUBLISHED MAY 23, 1922.

158,108. LIQUID MASSAGE PREPARATION FOR CERTAIN NAMED PURPOSES. C. A. STUART, Kansas City, Mo.
Filed October 28, 1920. Serial No. 138,928. PUBLISHED MAY 9, 1922.

158,109. FEZES. SUPREME PYRAMID ANCIENT EGYPTIAN ORDER OF SCIOTS, San Francisco, Calif.
Filed June 6, 1921. Serial No. 148,770. PUBLISHED MAY 23, 1922.

158,110. CONDENSING LENSES USED IN MOTION-PICTURE, SPOTLIGHT, STEREOPTICON, AND PHOTOGRAPHIC APPARATUS. SUSSFELD, LORSCH & SCHIMMEL, New York, N. Y.
Filed March 4, 1922. Serial No. 160,211. PUBLISHED MAY 30, 1922.

158,111. HOSIERY. TAMOR BROTHERS, New York, N. Y.
Filed September 10, 1921. Serial No. 152,815. PUBLISHED MAY 23, 1922.

158,112. SULPHUR INOCULATED WITH BACTERIA. TEXAS GULF SULPHUR COMPANY, New York, N. Y.
Filed December 24, 1921. Serial No. 157,114. PUBLISHED MAY 23, 1922.

158,113. SULPHUR AND SULPHUR INOCULATED WITH BACTERIA. TEXAS GULF SULPHUR COMPANY, New York, N. Y.
Filed December 24, 1921. Serial No. 157,116. PUBLISHED MAY 23, 1922.

158,114. CIGARETTES. HOMER THEOCARIDIS, New York, N. Y.
Filed March 4, 1922. Serial No. 160,214. PUBLISHED MAY 30, 1922.

158,115. COTTON PIECE GOODS. TILTON & KEELER INC., New York, N. Y.
Filed January 21, 1922. Serial No. 158,268. PUBLISHED MAY 16, 1922.

158,116. CENTRIFUGAL DRYING MACHINES, ALSO KNOWN AS HYDRO-EXTRACTORS. TOLHURST MACHINE WORKS, Troy, N. Y.
Filed October 18, 1921. Serial No. 154,289. PUBLISHED MAY 16, 1922.

158,117. CERTAIN NAMED MACHINERY. TREADWELL ENGINEERING COMPANY, Easton, Pa.
Filed October 20, 1921. Serial No. 154,891. PUBLISHED MAY 16, 1922.

158,118. GRAY COTTON BLANKETS. TREMONT & SUFFOLK MILLS, Lowell, Mass.
Filed February 23, 1922. Serial No. 159,733. PUBLISHED MAY 30, 1922.

158,119. GLAND TABLETS. ELMER C. TREUTING, San Francisco, Calif.
Filed November 2, 1921. Serial No. 154,932. PUBLISHED MARCH 28, 1922.

158,120. NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. A/S TUBORGS FABRIKKER, Hellerup, near Copenhagen, Denmark.
Filed February 2, 1922. Serial No. 158,805. PUBLISHED MAY 30, 1922.

158,121. SMOKING AND CHEWING TOBACCO, CIGARS, CIGARETTES, AND SNUFF. "TURMAC" TURKISH-MACEDONIAN TOBACCO CO., Arnhem, Netherlands.
Filed February 11, 1922. Serial No. 159,227. PUBLISHED MAY 30, 1922.

158,122. SMOKING AND CHEWING TOBACCO, CIGARS, CIGARETTES, AND SNUFF. "TURMAC" TURKISH-MACEDONIAN TOBACCO CO., Arnhem, Netherlands.
Filed February 11, 1922. Serial No. 159,228. PUBLISHED MAY 30, 1922.

158,123. CIGARETTES. NELLIE F. TURNER, New York, N. Y.
Filed March 8, 1922. Serial No. 160,372. PUBLISHED MAY 30, 1922.

158,124. EMBALMING FLUID. UNDERTAKERS SUPPLY COMPANY, Chicago, Ill.
Filed December 27, 1921. Serial No. 157,191. PUBLISHED MARCH 28, 1922.

158,125. BLACK AND GALVANIZED SHEETS. UNITED ALLOY STEEL CORPORATION, New York, N. Y., and Canton, Ohio.
Filed November 1, 1921. Serial No. 154,894. PUBLISHED JANUARY 3, 1922.

158,126. HAIR NETS. UNITED STATES HAIR NET CO., Chicago, Ill.
Filed November 30, 1921. Serial No. 156,121. PUBLISHED MAY 23, 1922.

158,127. ENVELOPES. UNITED STATES ENVELOPE COMPANY, Springfield, Mass.
Filed January 12, 1922. Serial No. 157,861. PUBLISHED MAY 16, 1922.

158,128. PLAYING CARDS. THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio.
Filed March 21, 1922. Serial No. 161,020. PUBLISHED MAY 30, 1922.

158,129. CERTAIN MACHINES AND PARTS THEREOF AND TOOLS USED IN THE MANUFACTURE OF BOOTS AND SHOES. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed December 17, 1921. Serial No. 156,870. PUBLISHED MAY 16, 1922.

158,130. ANILIN COLORS AND DYES, DENTIFRICES, TOOTH PASTE AND POWDER, PERFUMES, DISINFECTANTS, AND INSECT-EXTERMINATORS. THE UNITED STATES AND SOUTH AMERICA CORPORATION, New York, N. Y.
Filed April 24, 1920. Serial No. 131,612. PUBLISHED MAY 10, 1921.

158,131. LIQUIDS FOR CHARGING AND RECHARGING BATTERIES. URADIA COMPANY, Houston, Tex.
Filed October 1, 1921. Serial No. 153,629. PUBLISHED MAY 23, 1922.

158,132. OINTMENT FOR SPRAINS, BRUISES, RHEUMATISM, NERVOUSNESS, AND OTHER AFFLICTIONS. ETHEL VAN BOSKIRK, South Bend, Ind.
Filed December 29, 1921. Serial No. 157,287. PUBLISHED MARCH 28, 1922.

158,133. HOSIERY. VAN RAALTE COMPANY, INC., New York, N. Y.
Filed November 28, 1921. Serial No. 156,037. PUBLISHED MAY 16, 1922.

158,134. VEILS, HAIR NETS, SILK PIECE GOODS, COTTON PIECE GOODS, WOOLEN PIECE GOODS, AND LACE CURTAINS. V. VIVAUDOU, INC., New York, N. Y.
Filed February 6, 1922. Serial No. 158,957. PUBLISHED MAY 16, 1922.

158,135. CHAMPAGNE WINES. WALBAUM, GOULDEN & CO., Reims, France.
Filed October 19, 1921. Serial No. 154,340. PUBLISHED MAY 23, 1922.

158,136. CHAMPAGNE WINES. WALBAUM, GOULDEN & CO., Reims, France.
Filed October 19, 1921. Serial No. 154,341. PUBLISHED MAY 23, 1922.

158,137. HAIR TONICS AND HAIR DRESSINGS. GEORGE G. WALDRON, New York, N. Y.
Filed December 31, 1921. Serial No. 157,395. PUBLISHED MARCH 28, 1922.

158,138. GOLF BALLS. JOHN WANAMAKER, NEW YORK, New York, N. Y.
Filed July 20, 1921. Serial No. 150,716. PUBLISHED MAY 30, 1922.

158,139. MEN'S AND YOUNG MEN'S OVERCOATS. WILLIAM H. WANAMAKER, Philadelphia, Pa.
Filed November 2, 1921. Serial No. 154,944. PUBLISHED MAY 23, 1922.

158,140. WRAPPING PAPER. WAXTWELL PAPER COMPANY, Grand Rapids, Mich.
Filed February 20, 1922. Serial No. 159,640. PUBLISHED MAY 16, 1922.

158,141. ARTIFICIAL FISHING BAITS. THE WEBER LIFELIKE FLY CO., Stevens Point, Wis.
Filed February 8, 1922. Serial No. 159,069. PUBLISHED MAY 30, 1922.

158,142. LIQUID DISINFECTANTS, ANTISEPTICS, AND PURIFIERS. WEST DISINFECTING COMPANY, New York, N. Y.
Filed April 16, 1921. Serial No. 146,283. PUBLISHED MAY 23, 1922.

158,143. PREPARATION FOR THE SCALP TO BE USED AS A TONIC AND FOR PROMOTING THE GROWTH OF HAIR. MARY LIZZIE WHITFIELD, trading as Madam D. W. Whitfield, Americus, Ga.
Filed August 27, 1921. Serial No. 152,293. PUBLISHED MAY 9, 1922.

158,144. SMOKERS' PIPES. WALTER W. WIDOR, Omaha, Nebr.
Filed March 24, 1922. Serial No. 161,216. PUBLISHED MAY 23, 1922.

158,145. MALT EXTRACTS. ALBERT WIRLICH, doing business as the Premier Malt Sales Corp., New York, N. Y.
Filed December 11, 1920. Serial No. 140,971. PUBLISHED MAY 16, 1922.

158,146. KNITTED FABRICS IN THE PIECE. THE WILEY-BICKFORD-SWEET CO., Worcester, Mass.
Filed July 18, 1921. Serial No. 150,579. PUBLISHED MAY 16, 1922.

158,147. CERTAIN NAMED TOILET PREPARATIONS. WILLIAMS & FREDERICK INC., New York, N. Y.
Filed December 29, 1921. Serial No. 157,290. PUBLISHED MAY 9, 1922.

158,148. ANTISEPTIC AND ALTERATIVE. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed December 31, 1921. Serial No. 157,394. PUBLISHED MARCH 28, 1922.

158,149. A TONIC DIURETIC FOR THE KIDNEYS AND BLADDER. CARROLL E. WOOD, Roanoke, Va.
Filed November 14, 1921. Serial No. 155,378. PUBLISHED MARCH 21, 1922.

158,150. HOSIERY. H. H. WOOD & COMPANY, Laconia, N. H.
Filed November 21, 1921. Serial No. 155,720. PUBLISHED MAY 16, 1922.

158,151. DUSTING BROOMS, DUSTING BRUSHES, AND WOOL DUSTERS. WOOLEATHER CORP., Salem, Mass.
Filed November 4, 1921. Serial No. 155,037. PUBLISHED MAY 16, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

AUGUST 22, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

158,152. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEPHEN H. BROOKS, Cleveland, Ohio. Filed June 17, 1921. Serial No. 149,262.

UNDERWRITERS

Particular description of goods.—Fire-Extinguishing Liquid.
Claims use since May 1, 1919.

158,153. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAPELL SALT COMPANY, Salt Lake City, Utah. Filed Feb. 23, 1922. Serial No. 159,694.

CAPELL

Particular description of goods.—Salt (Sodium Chloride).
Claims use since Dec. 31, 1916.

158,154. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CLAUSS-BROSKER CO., Elizabeth, N. J. Filed Apr. 25, 1922. Serial No. 162,869.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Aug. 3, 1920.

158,155. (CLASS 39. CLOTHING.) THE COMER MANUFACTURING COMPANY, Dayton, Ohio. Filed Sept. 23, 1921. Serial No. 153,240.

COMER

Particular description of goods.—Raincoats, Cravenettes, Gabardines, Bath Robes, and Ladies' Skirts.
Claims use since the fall of 1914.

158,156. (CLASS 39. CLOTHING.) ELLSWORTH & THAYER MFG. CO., Milwaukee, Wis. Filed Oct. 10, 1921. Serial No. 153,926.

KANTRYP

Particular description of goods.—Leather or Fabric Gloves.
Claims use since 1905.

158,157. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. G. FETTEROLF COMPANY, Philadelphia, Pa. Filed Apr. 26, 1922. Serial No. 162,922.

Fetterolf Quality Wilton

Particular description of goods.—Wool Rugs and Carpets.
Claims use since May 1, 1914.

158,158. (CLASS 32. FURNITURE AND UPHOLSTERY.) LOUIS R. GANS, Brooklyn, N. Y. Filed Mar. 10, 1922. Serial No. 160,495.

"PAY CASH—PAY LESS"
HOWARD

Particular description of goods.—Certain Named Household and Porch Furniture.
Claims use since Jan. 2, 1920.

158,159. (CLASS 45. BEVERAGES, NONALCOHOLIC.) FRANK HARWELL, Atlanta, Ga. Filed Aug. 30, 1921. Serial No. 152,368.

ORANGE COLA

Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since April, 1921.

158,160. (CLASS 39. CLOTHING.) HILLMAN & ISRAEL, New York, N. Y. Filed Dec. 14, 1921. Serial No. 156,685.

Stunning

Particular description of goods.—Ladies' Sweaters.
Claims use since May, 1921.

158,161. (CLASS 32. FURNITURE AND UPHOLSTERY.) OTTAWA CUSHION CO., Ottawa, Ill. Filed June 3, 1922. Serial No. 164,940.

"Pretty Soft"

Particular description of goods.—Porch-Swing Cushions and Pads, Chair Cushions and Pads, Piano-Bench Pads, Boat and Canoe Cushions, Church-Pew Cushions, Tumble Mats, Gymnasium Mats, Auto Seat Cushions and Back Cushions.
Claims use since Apr. 2, 1920.

158,162. (CLASS 39. CLOTHING.) PACIFIC KNITTING MILLS, Los Angeles, Calif. Filed Oct. 3, 1921. Serial No. 153,690.

BEAUTY
Ribstitch

Particular description of goods.—Men's, Women's, and Children's Bathing Suits and Sweater Coats.
Claims use since Sept. 9, 1920.

158,163. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE PERFECTION MATTRESS & SPRING CO., Birmingham, Ala. Filed Feb. 2, 1922. Serial No. 158,796.

BABY
PERFECTION MATTRESS

Particular description of goods.—Mattresses.
Claims use since 1919.

158,164. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE PERFECTION MATTRESS & SPRING CO., Birmingham, Ala. Filed Feb. 2, 1922. Serial No. 158,797.

PERFECTION
SPRING

Particular description of goods.—Bed Springs.
Claims use since 1919.

158,165. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE PERFECTION MATTRESS & SPRING CO., Birmingham, Ala. Filed Feb. 2, 1922. Serial No. 158,798.



Particular description of goods.—Mattresses.
Claims use since 1919.

158,166. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER, HALSEY CO., New York, N. Y. Filed June 20, 1922. Serial No. 165,774.

995 FRANKLIN

No 1

Particular description of goods.—Bleached Cotton Duck.
Claims use since April, 1908.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE ELLIS, JEFFERY, AND MADDOCKS.

Decided August 10, 1922.

1. EXAMINATION OF APPLICATIONS—CASES MADE SPECIAL—SHOWING REQUIRED.

Where an applicant delays filing his application in this country more than the twelve months permitted by the International Convention, his application will be made "special" only upon a sworn showing that the foreign patent will issue by a certain date and that the foreign Patent Office will not postpone its issuance beyond that date.

2. SAME—SAME—SAME.

The mere showing that the British patent will not issue until March 25, 1923, is not a sufficient compliance with the rule. It must be shown that the British office will not give a further extension.

ON PETITION.

SEED-SOWING MACHINE.

Mr. David P. Wolhaupter for the applicants.

ROBERTSON, *Commissioner:*

Applicant petitions that their application be advanced in the order of examination under rule 63(*f*), which rule relates to the examination of applications filed in this country more than twelve months after filing in a foreign country. (289 O. G., 237.)

For several years past the work of this Office has been increasing at an unprecedented rate. It has received during the past twelve months over 88,000 mechanical applications, 17,000 trade-mark applications, and several thousand design and reissue applications, over 111,000 in all. It is beyond the capacity of the Office to handle this volume of business, and hence eight of the forty-nine examining divisions have fallen over a year behind in making official actions. It is manifestly unfair for one application to be taken out of its place and shoved ahead of thousands of others filed many months before it. Therefore, applications of American citizens are made "special" *only* upon the most rigid *sworn* showing. Nevertheless before rule 63 (*f*) was amended foreign applicants could neglect to file their American applications during the twelve months allowed after filing at home, and then have their applications in this country made special as a matter of course, with the result that thousands of applications of American citizens would be shoved out of turn in order that the applications of foreign citizens might be acted upon expeditiously. If this happened only in a few cases a year, it could be tolerated; but since there are a great many of these cases, and since the work of some of the Examiners is blocked by these delayed foreign applications (heretofore made special as a matter of course), the Office has been compelled to establish the rule that in case the foreign applicant delays filing his case more than the twelve months permitted by the International Convention his case can be made "special" only upon a *sworn* showing that the foreign patent will issue by a certain date and that the foreign Patent Office will not postpone its issuance beyond that date. This may seem a hardship to the foreign applicant, and also involve him in some expense, but American applicants must undergo similar hardship and expense in preparing affidavits to make the special showing required in order to have their cases given advanced action. If the foreign applicant elects to delay filing for more than the twelve months allowed, he should not complain if this Office declines to penalize its own citizens by delaying action on their cases to attend to the demands of foreigners.

This Office has information that in some countries the delay in issuing the patent may be easily accomplished. For example, it is stated that in Great Britain arrangements can be made at the proper time whereby the issuance of the patent may be delayed as much as 25 months upon the payment of a fine. Delays in the United States Patent Office may be easily obtained, and if there are any countries where the rules are so hard and fast that delays are forbidden it may be that such foreign Patent Office may have to change its rules so as to make it possible for their citizens to obtain delay of the issuance in the home country to thereby protect their interests in this country.

The present petition shows that the foreign patent will not issue until March 25, 1923. This is not sufficient compliance with the rule. It must also be shown that the British office will not give a further extension. There is sufficient time for applicants' attorney to write or cable for this verified showing, and the petition is therefore denied without prejudice to its renewal upon the filing of the required sworn statement.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Third Circuit.

STASO LAMINATED SLATE CO. *v.* STOWELL MFG. CO.

Decided February 28, 1922; rehearing denied May 10, 1922.

[280 Fed. Rep., 107.]

1. PATENTS—COMMERCIAL SUCCESS NOT ALWAYS INDICATIVE OF INVENTION.
   Commercial success, though often indicative of invention, is not always so, as it may be due to other causes.
2. SAME—NO. 1,007,146, FOR PREPARED ROOFING, HELD ANTICIPATED.
   The Schroder patent, No. 1,007,146, for a prepared roofing with a protective coating of crushed slate applied by rolling, *Held* invalid, because anticipated.

APPEAL from the District Court of the United States for the District of New Jersey; Charles F. Lynch, judge.

Suit by the Staso Laminated Slate Company against the Stowell Manufacturing Company. From a decree for defendant, plaintiff appeals. Affirmed.

Mr. Charles Neave and *Mr. Charles C. Gillson* for the appellant.

Mr. J. Edgar Bull and *Mr. George F. Scull* for the appellee.

Before WOOLLEY and DAVIS, Circuit Judges, and THOMPSON, District Judge.

DAVIS, *Cir. J.:*

This is an appeal from the district court, holding Patent No. 1,007,146, issued to Edward J. Schroder, October 31, 1911, and owned by the complainant, invalid. The patent is for a prepared roofing, which consists of a body portion having a coating of adhesive waterproofing material, such as asphalt, and an outer protective coating of crushed slate. The alleged novelty in this patent is twofold: Material and method of application—crushed slate, applied by rolling in contact with an adhesive coating of asphalt. Ground slate had been used in the John's patent (1872) No. 125,574. Crushed slate is superior to other kinds of slate and material, it is claimed, because slate laminates when crushed and the laminæ when rolled and pressed together match and overlap one another so as completely to cover the asphalt coating and give a smooth surface and uniform color which cannot be obtained with a gravel, sand or other crystalline covering. This result cannot be secured, it is contended, by the use of ground or powdered slate because it has no laminæ to match and overlap one another.

[1] The enterprise of the patentee and his assignee was commercially successful. The roofing has been applied in large quantities, both in the form of sheets or roll roofing and shingles. Commercial success is often indicative of invention, but it is not always so for it may be due to other causes. The disclosures of the patent, however, seem patentable and the patent is valid unless anticipated.

[2] The defendant in its answer alleges that the patent is invalid because Edward J. Schroder was not the original and first inventor; that A. C. Hall was the inventor of substantially the construction described and claimed in the patent which had been in public use or on sale in the United States more than two years before the application for the Schroder patent.

The defendant refers to the roofing called "slateoid," manufactured by the Trinidad Asphalt Manufacturing Company of St. Louis. This word was registered as a trade-mark by the company July 27, 1906. It appears by undisputed evidence that Mr. A. C. Hall was employed by the Staso Mills, or Staso Milling Company, of Boston, Mass., as its superintendent from March, 1906, until some time in 1913. That company in March, 1906, was manufacturing slate dust which was used in making paint and linoleum. This dust had to be screened, and it occurred to Hall that the larger screenings would make a good material for roofing. He sent samples to various roof manufacturers, among whom was the Trinidad Asphalt Manufacturing Company. It approved the material and ordered two carloads.

The factory of the Staso Company was thereupon equipped for crushing slate ordered by the Trinidad Company. Eight carloads were shipped to that company. The Staso Company called the material "torpedo slate." The Trinidad Company made and sent samples of "slateoid" to the Staso Company, and these samples were, Hall testified, like the material manufactured by the complainant and submitted to him at the trial. By original records the Trinidad Company showed that it manufactured and sold 9,394 squares of "slateoid" before September 9, 1908, which was two years before the application for the Schroder patent. A "square" is 100 square feet. This was enough, according to the uncontradicted testimony, to cover 1,657 average-sized houses.

On March 21, 1907, Frank W. Torpening, secretary and treasurer of the Trinidad Company, filed an application for a patent on the "slateoid" roofing made by that company. In his specification he said:

> After the bond layers have been applied to the body sheet I apply to the bond layer which is to be at the upper side of the roofing sheet when in use, for instance, the bond layer 2, a surfacing 4 of crushed slate which is embedded into the bond layer and packed firmly therein by a rolling operation.

Claim 2 contains:

> A roofing sheet comprising a pliable body, a nonhardening bond applied to said body, and a layer of crushed slate embedded in said compound, substantially as set forth.

This application was rejected by the Patent Office on the ground that the substitution of crushed slate for other material did not constitute invention. We have in this application, filed three and one-half years before the Schroder application, the identical material, crushed slate, applied in identically the same way, by rolling. These facts are undisputed and seem to be undisputable.

Complainant disposes of the Trinidad Roofing by saying that it was only an experiment and a complete failure; that its manufacture was abandoned, and therefore it should not be held as an anticipation. We think that these conclusions are not a reasonable interpretation of the evidence. Substantially the same roofing was successfully manufactured, out of the same material, by the same method as described in the Schroder patent, more than two years before his application. We agree with the conclusion of the learned judge of the district court that the patent was anticipated and is invalid.

The decree of that court is accordingly affirmed.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

782,739, E. Fischer, C-C Dialkyl-barbituric acid and process for making same, suit filed June 30, 1922, U. S. D. C., N. D. Ill.. Doc. 2819, *E. A. Merck et al.* v. *The Abbott Laboratories et al.*

796,402, L. E. Curtis, Machine for expanding metal, suit filed July 24, 1922. U. S. D. C., N. D. Ohio (E. Div.), Doc. 760, *Northwestern Expanded Metal Co.* v. *Youngstown Pressed Steel Co.*

812,554, A. Einhorn, Alkamin esters of para-aminobenzoic acid, suit filed June 23, 1922, U. S. D. C., N. D. Ill., Doc. 2787, *The Chemical Foundation, Inc.* v. *The Abbott Laboratories et al.*

891,163, H. L. Guenther, Can capping and compressing machine, suit filed June 30, 1922, U. S. D. C., N. D. Ill., Doc. 2818, *Farbwerke vormals Meister Lucius & Bruning* v. *The Abbott Laboratories et al.* Same, suit filed July 8, 1922. U. S. D. C., S. D. Calif. (S. Div.), Doc. G 9 Eq., *Angelus Sanitary Can Machine Co., Inc.* v. *Pacific Closing Machine Co.*

905,664, H. C. Curnow, Combined jar cap and opener, suit filed March 2, 1922, U. S. D. C., D. N. J., Doc. 3479, *Bead Chain Mfg. Co.* v. *Handycap Co.*

924,664, 978,889, 1,056,548, 1,057,154, 1,053,396, K. and C. Imhoff, Sewage-treatment apparatus, suit filed June 23, 1922, U. S. D. C., N. D. Ill., Doc. 2786. *The Chemical Foundation, Inc.* v. *Pacific Flush Tank Co. et al.*

935,222, E. Olsson, Guns with recoiling barrel, suit filed July 28, 1922, U. S. C. of Claims, D. C., Doc. B–154. *E. Olsson* v. *United States.*

978,889. (See 924,664.)

990,210, B. R. Myers, 1,135,186, A. N. Jeavons, Casing for springs, suit filed July 6, 1922, U. S. D. C., S. D. Ohio (E. Div.), Doc. 223, *A. N. Jeavons* v. *The Reliable Spring Oiler Co.*

1,053,396. (See 924,664.)

1,056,548. (See 924,664.)

1,057,154. (See 924,664.)

1,075,171, A. Thiele and G. Wichmann, Process of manufacture of 2-phenylquinolin-4-carboxylic acid, suits filed June 23, 1922, and June 29, 1922, U. S. D. C., N. D. Ill., Doc. 2788 and 2817, *The Chemical Foundation, Inc. and Chemische Fabrik Auf Aktien* v. *The Abbott Laboratories, Inc., et al.*

1,135,186. (See 990,210.)

1,140,649, 1,140 650, L. V. Aronson, Toy talking mechanism, suits filed March 7, 1922, and April 21, 1922, U. S. D. C., D. N. J., Doc. 3488 and 3549, *L. V. Aronson* v. *The Toy Devices, Inc., et al.*

1,167,608, P. Winsor and C. Corliss; 1,223,223, 1,319,311, C. H. Tomlinson, Electric and other couplings, suit filed June 5, 1922, U. S. D. C., N. D. Ill. (E. Div.), Doc. 2753, *The Tomlinson Coupler Co.* v. *Van Dorn Coupler Co.*

1,170,513, W. T. Charles, Fire extinguishers, suit filed June 12, 1922, U. S. D. C., N. D. Ill., Doc. 2776, *W. T. Charles* v. *Fire Gun Mfg. Co.*

1,177,079, P Agrillo, Chains, suit filed June 12, 1922, U. S. D. C., N. D. Ill., Doc. 2779, *Victory Belt Co.* v. *G. H. Tyler & Co. et al.*

1,181,979, W. F. Traub, Stoves, suit filed June 17, 1922, U. S. D. C., N. D., Ill., Doc. 2782, *A. W. Traub* v. *C. M. Eberhardt et al.*

1,223,223. (See 1,167,608.)

1,319,311. (See 1,167,608.)

1,353,659, W. J. Longtin, Stockings, suit filed June 21, 1922, U. S. D. C., N. D. Ill., Doc. 2784, *Allen Hosiery Co.* v. *Carson, Pirie Scott & Co.*

1,390,758, M. J. Callahan, Thermostatic control for dampers for unit ventilators, suit filed Mar. 8, 1922, U. S. D. C., D. N. J.. Doc. 3490, *M. J. Callahan* et al. *v.* J. J. Nesbitt.

1,415,232, C. Ellis, Process of cracking oil under pressure, suit filed July 3, 1922, U. S. D. C., S. D. Ohio (E. Div.), Doc. 222, *Standard Oil Co.* v. *Pure Oil Co.*

T. M. 125,674, 127,292, 97,501, The Pierce Arrow Motor Car Co., Motor vehicles. suit filed July 21, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 399–C, *The Pierce Arrow Motor Car Co.* v. *E. H. Baker Corporation.*

T. M. 127,292. (See 125,674.)

Re. 15,381, original No. 1,188,048, D. F. Curtin, Blanks for paper cups, suit filed July 21, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 400–C, *The Vortex Mfg. Co. et al.* v. *F. N. Burt Co. Ltd.*

Des. 50,059, G. T. Dunkin, Lighting post, suit filed July 25, 1922, U. S. D. C., W. D. Wash. (S. Div.), Doc. 156 E, *G. Cutter Co.* v. *City of Hoquiam, Wash.*

Des. 60,878. H. S. Pardee, Radiator cap, suit filed June 12, 1922, U. S. D. C., N. D. Ill., Doc. 2778, *Miller & Pardee, Inc.*, v. *Advance Products Corp. et al.*

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 19, 1922.

Omnia Chemical Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of S. Pfeiffer Mfg. Co., 3947 Laclede Avenue, St. Louis, Mo., for registration of a trade-mark and trade-marks registered February 14, 1905, and October 31, 1905, No. 44,182 and No. 47,235, respectively, to the Omnia Chemical Co., of New York, N. Y., and a notice of such declaration sent by registered mail to said Omnia Chemical Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Omnia Chemical Co., its

assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 4, 1922.

Samuel Broom and Otto L. Meyer, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Rogers Bros. & Co., of 649 Broadway, New York, N. Y., for registration of a trade-mark and trade-mark registered July 28, 1896, No. 28,667, to Samuel Broom and Otto L. Meyer, of 44 White Street, New York, N. Y., and a notice of such declaration sent by registered mail to Samuel Broom and Otto L. Meyer at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Samuel Broom and Otto L. Meyer, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., Aug. 11, 1922.

S. F. Myers & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Roland A. Geell, of No. 15 Maiden Lane, New York, N. Y., for registration of a trade-mark and trade-mark registered November 5, 1895, No. 27,193, to S. F. Myers & Co. of 48 and 50 Maiden Lane, New York, N. Y., and a notice of such interference sent by registered mail to said S. F. Myers & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said S. F. Myers & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

Halla Dagger Medicine Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Charles Cramer, of Gardner, Kans., for registration of a trade-mark and trade-mark registered October 12, 1915, No. 106,153, to Halla Dagger Medicine Company, of Great Falls, Mont., and a notice of such declaration sent by registered mail to Halla Dagger Medicine Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Halla Dagger Medicine Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

Knox Manufacturing Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Dupuis Chemical Co., of Los Angeles, Calif., for registration of a trade-mark and trade-mark registered January 19, 1920, No. 72,330, to Knox Manufacturing Co., of 709 South Los Angeles Street, Los Angeles, Calif., and a notice of such declaration sent by registered mail to Knox Manufacturing Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Knox Manufacturing Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

George W. Caldwell, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Charles F. Hamel, of 1910 Cherry Street, Toledo, Ohio, for registration of a trade-mark and trade-mark registered August 16, 1904, No. 43,203, to George W. Caldwell, 44 North Street, Middletown, N. Y., and a notice of such declaration sent by registered mail to Caldwell at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Caldwell, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

David F. Halsted, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Cooper, Coate & Casey Dry Goods Co., of Seventh and Los Angeles Streets, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered April 17, 1900, No. 34,481, to David F. Halsted, of 70 and 72 Franklin Street, New York, N. Y., and a notice of such declaration sent by registered mail to David F. Halsted at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Halsted, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN.
First Assistant Commissioner.

Patents Nos. 1,427,062 to 1,427,765.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 301—No. 5. TUESDAY, AUGUST 29, 1922. Price—$5 per year.

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Trade-Marks	204—No.	158,167 to No.	158,370, inclusive.
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Prints	21—No.	6,272 to No.	6,292, inclusive.
Reissues	5—No.	15,437 to No.	15,441, inclusive.
T. M. Renewals	19		
Total	1042		

Adverse Decisions in Interference.

PATENT No. 1,381,195.

On July 25, 1922, a decision was rendered that Harry H. Ide was not the first inventor of the subject matter covered by claims 1, 2, 3, 4, 5, and 26 of his Patent No. 1,381,195, subject, "Telephone system," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,339,071.

On July 17, 1922, a decision was rendered that Charles H. Shipman was not the first inventor of the subject matter covered by claims 2 and 3 of his Patent No. 1,339,071, subject, "Operating means for direction indicators," and no appeal having been taken within the time allowed such decision has become final.

Rule 194.

All payments of money required for Office fees must be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks should be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. Letters containing money should be registered. In no case should money be sent with models.

Important Information.

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

Original specification. (Facsimile at present time.)

File-wrapper. (File-wrapper only.)

File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)

File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

Assignment. (Give the liber and page of the record as well as the name of the inventor.)

Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

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The stock of the following publications is held for sale by the Patent Office, and orders for same should be addressed to the Commissioner of Patents:

Weekly Index—Annual subscription	$1.00
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Weekly edition—Annual subscription	2.00
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Weekly edition—Annual subscription	2.50
Single numbers	.05
Manual of Classification of the German Patent Office, (translated,) paper cover	1.00
Index to German Classification	1.00
Definitions of Revised Classes and Subclasses, edition of 1912, (Bulletins 1 to 27, inclusive)	.50
Bulletins, excepting Nos. 28, 29, and 30, (now out of print,) published since 1912, each	.10

Other publications than those above named, exclusive of printed copies of patents, trade-mark registrations, etc., formerly held for sale by the Patent Office, have been transferred to the Superintendent of Documents, Government Printing Office. Orders for such publications should NOT be sent to the Patent Office, but to the Superintendent of Documents, to whom all remittances for such publications should be made payable.

Printed copies of specifications and drawings of patents, trade-mark registrations, etc., will be furnished by the Patent Office, as heretofore.

Condition of Applications Under Examination at Close of Business August 19, 1922.

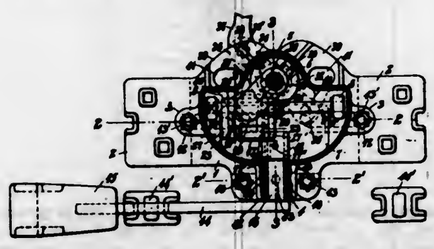
(Total number of applications waiting action, excluding Trade-Mark division, 68,385; Trade-Mark division, 8,064. Oldest new case, May 19, oldest amended, Apr. 18, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application awaiting office action. New.	Oldest amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Dec. 24	*Feb. 7	978
126	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics: Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	Aug. 26	July 21	1,865
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 9	*Aug. 19	979
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Oct. 15	*June 10	1,413
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 31	Oct. 14	1,174
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Nov. 3	*Mar. 15	1,401
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Nov. 19	Dec. 3	2,244
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*May 16	*July 1	924
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	July 1	*June 25	1,115
285	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	*Jan. 27	*May 18	1,091
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 28	*Mar. 7	781
122	12. PIERCE, F. P., Machine Elements	*Feb. 3	*May 8	1,146
329	13. NIXON, O. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	July 18	*June 2	1,611
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	July 25	*Apr. 14	1,214
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 3	Sept. 28	1,745
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Aug. 29	Aug. 18	2,430
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Sept. 26	*Mar. 13	1,417
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	July 14	July 1	2,421
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Aug. 17	*Jan. 13	1,188
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Mar. 14	*Mar. 9	1,510
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Oct. 22	*Apr. 13	907
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Dec. 19	*Apr. 11	658
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Aug. 4	Nov. 25	794
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 8	*Mar. 30	1,243
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*May 3	*May 2	488
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 8	*Jan. 24	1,083
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Oct. 7	Apr. 19	2,051
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 28	Oct. 14	1,644
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Nov. 25	*June 8	646
152	30. SULLIVAN, M. E., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Feb. 6	*May 22	1,460
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 29	Nov. 1	2,046
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Oct. 10	*Apr. 24	975
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Dec. 27	*Mar. 1	915
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Apr. 15	*Apr. 15	567
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 30	*Apr. 26	1,059
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 21	*Feb. 17	1,833
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Oct. 4	Oct. 26	1,861
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 27	Oct. 24	1,781
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 6	June 21	2,141
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Sept. 1	Dec. 10	2,535
125	41. BROWN, J. T., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Mar. 10	*Apr. 1	880
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Oct. 5	Aug. 8	1,967
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Oct. 12	Oct. 4	1,171
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 14	Oct. 13	1,413
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Jan. 5	*Feb. 11	1,297
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 26	Dec. 5	1,272
261	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Nov. 1	*Mar. 15	1,189
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	May 19	Apr. 18	2,843
	49.	June 9	July 6	1,049
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.	Sept. 12	*Jan. 30	5,781
	Trade-Marks	*Jan. 19	*May 1	2,266
	Designs	*Aug. 10	*Aug. 16	17
	Labels and Prints			

PATENTS

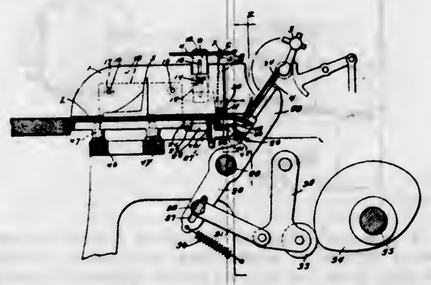
GRANTED AUGUST 29, 1922.

1,427,082. SWITCH STAND. FRANK C. ANDERSON, Cincinnati, Ohio. Filed June 10, 1922. Serial No. 567,386. 23 Claims. (Cl. 246—411.)



1. In a switch-stand, mechanism comprising a lever and a crank coaxially connected in radial alinement, a rack above and engaged by said crank, an intermediate crank operatively related to said rack thereabove, a direct switch-throwing crank coaxially connected with said intermediate crank, and means operatively supporting said mechanism.

1,427,083. DELIVERY MECHANISM FOR ENVELOPE-MAKING MACHINES. ADDISON E. AUGUSTINE, Hackensack, N. J., assignor to Chester Machine Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 5, 1919. Serial No. 342,673. 15 Claims. (Cl. 271—87.)



1. A delivery mechanism for envelope-making machines comprising a receiving table, a pusher for delivering the envelopes upon the table, means to operate the pusher, and an envelope retaining stop arranged to be operated directly by said pusher.

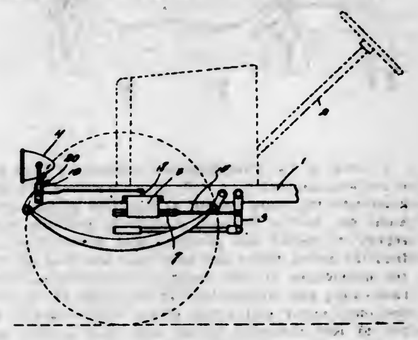
1,427,084. BRAKE. PER AUGUST ANDERSON, New York, N. Y. Filed Oct. 24, 1919. Serial No. 332,938. 2 Claims. (Cl. 188—77.)

1. A bracket for supporting a brake-band in operative position, comprising a substantially flat bracket member provided with a plurality of apertures extending therethrough for the accommodation of bolts whereby said bracket is fastened in place, and a brake-band member extending transversely from said bracket-member and having an integral connection with a fractional part of one edge of the latter, said brake-band member having a curved form corresponding approximately to the curve of the brake-band which it is intended to support and being slotted to receive resilient devices whereby the



brake-band is mounted upon said brake-band member, the latter being further provided with an aperture for the accommodation of a strop-screw whereby the resilient action of the resilient devices is arrested.

1,427,085. AUTOMOBILE HEADLIGHT. JOSÉ ANTONIO AYALA, Caracas, Venezuela. Filed June 6, 1921. Serial No. 475,367. 5 Claims. (Cl. 240—62.)

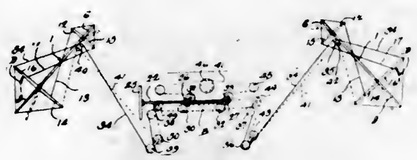


1. In combination with a motor vehicle and its steering mechanism, a centrally arranged headlight thereon, means for moving the same about a vertical axis when the steering mechanism is actuated, such means including means for compensating for the different degrees of movement of the front wheels turning towards the right and left.

1,427,086. AIRPLANE. MILTON F. BABCOCK, Buffalo, N. Y. Filed July 7, 1919. Serial No. 309,030. 3 Claims. (Cl. 244—29.)

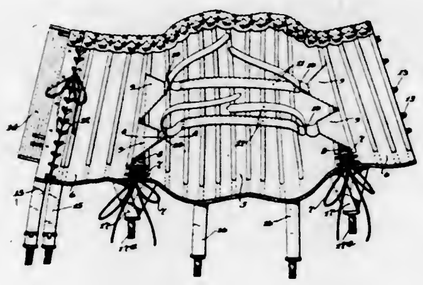
1. In an airplane, an aerofoil comprising an intermediate portion and front and rear marginal portions, box ribs carried by said intermediate portion in spaced

relation to each other, hinges carried by said box ribs and connected to said front and rear marginal portions for hingedly connecting said portions to the intermediate portion of the aerofoil, arms carried by said front and rear marginal portions and projecting above and below the same, and connecting wires connecting the downwardly extending arms of said front and rear marginal



portions to the upwardly extending arms of the opposite portions, whereby said marginal portions may be moved synchronously in the same direction, controlling means operatively connected to certain of said arms and arranged whereby said marginal portions may be synchronously operated to provide uniform curvature throughout the span of the aerofoil.

1,427,087. CORSET WITH ABDOMINAL SUPPORT. EMMA BOOBAR, Minneapolis, Minn. Filed Dec. 24, 1919. Serial No. 347,158. 5 Claims. (Cl. 2—73.)



1. A corset of the kind described comprising back and front sections connected at their upper portions but with gaps between the edges thereof at the sides of the corset adjacent the bottom thereof, said front sections being separately connected and provided with a lacing at the front of the corset, upper and lower tabs attached directly to the side edges of said front sections and spanning said side gaps and overlapping the side edges of the back section, and upper and lower straps intermediately attached to and extended across said back section and adjustably connected to said tabs.

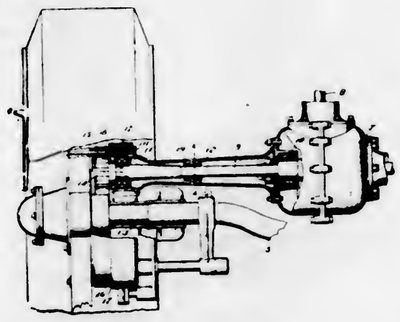
1,427,088. REVERSIBLE WINDOW. FRANK WM. BOWLER, Chicago, Ill. Filed Aug. 2, 1920. Serial No. 400,759. 4 Claims. (Cl. 20—42.)

1. A window construction comprising a stationary frame, a pair of sash carrying casings mounted therein for sliding movement, each in its vertical plane, glass holding sashes pivotally mounted in said sash carrying casings, a dummy sash arranged for sliding movement in a vertical plane between said sash carrying casings, a second dummy sash arranged for sliding movement in a vertical plane contiguous to the outer of said sash carrying casings, said dummy sashes being slidable independently of the sash-carrying frames and being formed to extend inwardly beyond the inner edges of said sash



carrying casings, whereby the window is weatherproofed and the revolvable sashes are prevented from being revolved when the dummy sashes are in certain positions.

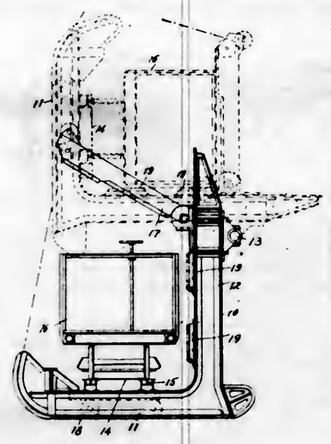
1,427,089. AXLE FOR MOTOR VEHICLES. ROBERT J. BURROWS, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a Corporation of Michigan. Filed Feb. 27, 1920. Serial No. 361,851. 4 Claims. (Cl. 74—7.)



4. A motor vehicle axle comprising a dead axle member, a differential housing, jack shafts having bearings at their inner end portions in said differential housing, rigid members connected with said differential housing and supported at their outer ends by said dead axle member, tubular intermediate bearings for said jack shafts carried by said members, bearings for said jack shafts carried by the outer end portions of said members, and pinions carried by said jack shafts outside of the latter bearings.

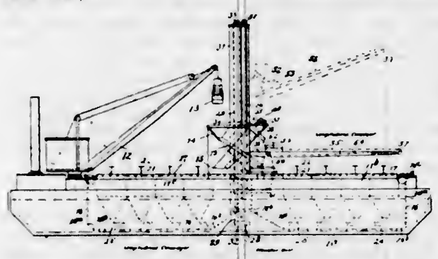
1,427,090. CAR BLOCKING FOR CAR-DUMPER CRADLES. ARTHUR F. CASE, Cleveland, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 19, 1919. Serial No. 283,631. 4 Claims. (Cl. 214—52.)

1. In a car dumper, a tilting cradle adapted to be turned about an axis to dump the contents of a car, and comprising a bottom portion on which the car is adapted to be run, and an upright side portion which supports the car during a portion of the tilting movement, the side of the cradle having a plurality of detachable car-blocking units spaced over the face of the same,



each unit comprising an oval-shaped frame secured to the cradle and containing yieldable thrust-resisting material.

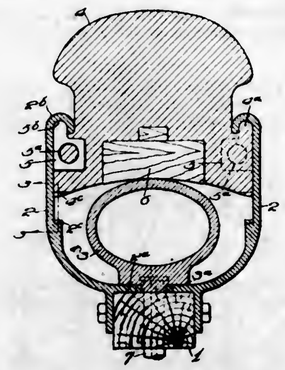
1,427,091. FUELING BARGE. ARTHUR F. CASE, Cleveland, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 26, 1919. Serial No. 299,832. 12 Claims. (Cl. 214—12.)



1. A fueling barge having a series of storage hoppers, a conveyor having a portion extending over the hoppers so that it may deliver fuel thereto, and having a portion extending beneath the hoppers so that it may carry fuel therefrom, means for supplying the fuel to the upper part of said conveyor so that it may be delivered to the hoppers, and means for receiving the fuel from the lower part of said conveyor and delivering the same to a boat to be fueled comprising a cross conveyor to which the fuel is delivered by the first-named conveyor, and an elevator for receiving the fuel from the cross conveyor.

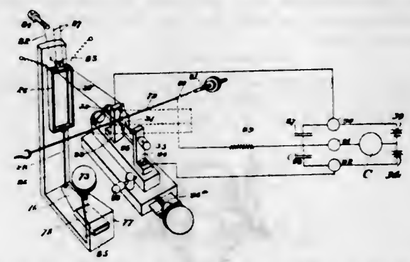
1,427,092. VEHICLE-WHEEL TIRE. MELVILLE CLARK, Chicago, Ill.; Elizabeth B. Clark, executrix of said Melville Clark, deceased, assignor, by mesne assignments, of one-half to William Annan Taylor, Chicago, Ill., and one-half to Charles S. Burton, Oak Park, Ill. Filed Feb. 27, 1918, Serial No. 219,378. Renewed Feb. 10, 1922. Serial No. 535,612. 2 Claims. (Cl. 152—10.)

2. A vehicle wheel tire comprising in combination with lateral guards secured at opposite sides of the felly; a cushioning tread member positioned between the guards and extending from guard to guard, the guard and the tread member having interlocking circumferentially-extending tongue-and-groove features of which those of the guard are exterior to those of the tread for retaining the tread between the guards against radial escape; the tread member being free to creep about the wheel axis between the guards relatively thereto, the guards and their interlocking features being closely fitted to the tread member to frictionally resist and retard such relative creeping movement; the guards having each an inwardly-projecting annular shoulder facing outwardly from the axis, and a tread member having at each side an



inwardly-facing annular shoulder for seating on the shoulder of the guards when the tread is forced radially inward under said load at a certain distance, said shoulders of the guard and tread member respectively, being corrugated for engaging one with the other, to resist the creeping movement of the tread about the felly; a pneumatic tube or air spring enclosed by the guards and the tread member, and forming an inner seat and track for the creeping movement of said tread member, and means for securing the air spring against creeping around the axis.

1,427,093. MOVING COIL RELAY. KENWRICK CECIL COX, Norfolk Island, South Pacific. Filed Sept. 17, 1917. Serial No. 191,889. 6 Claims. (Cl. 200—110.)



6. In a relay having a movable coil and a movable contact tongue connected therewith, a supporting base mounted beneath said tongue, and a pivoted block having stationary contacts normally in alinement with said contact tongue, mounted on said base and adapted to be swung to one side and thereby move the stationary contacts out of alinement with said contact tongue.

1,427,094. ELECTRIC HEATER. PAUL DANIEL, Boundbrook, N. J. Filed Aug. 27, 1920. Serial No. 406,352. 5 Claims. (Cl. 219—38.)

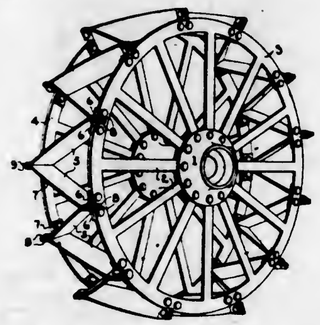
1. In a heater the combination of a supporting flange having a central opening, a casing extending through the opening, an extension connected to the casing and supported in the flange, a conductor rod in the extension, a

heating coil in the casing in connection with one end of said rod, an electric insulating material in the casing and



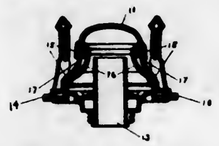
extension imbedding said coil and rod and a wire for electric current connected to the rod outside of said extension.

1,427,095. FARM-TRACTOR WHEEL. JOB DE CAMP, Van Wert County, near Grover Hill, Ohio. Filed Oct. 17, 1921. Serial No. 508,225. 4 Claims. (Cl. 301—52.)



1. In a traction wheel, the combination of a hub, a tread portion, and connecting means between the hub and tread portion, said tread portion comprising a pair of spaced annular rings, and diagonally-disposed bars provided with lugs extending outwardly from the ends of said bars, the lugs of adjacent bars being connected together, other lugs located below and extending in opposite directions from the first-mentioned lugs upon opposite sides of the bars and connected with the annular rings, the first-mentioned lugs extending beyond the second-mentioned lugs and supported upon the peripheries of the annular rings.

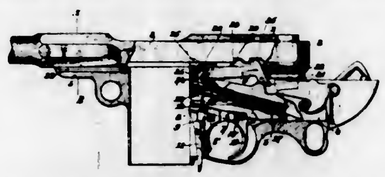
1,427,096. FLAME SPREADER. EDWARD F. DRAKE, Danbury, Conn. Filed Oct. 7, 1921. Serial No. 506,051. 1 Claim. (Cl. 67—72.)



The combination with an oil burner dome, of baffle plates having ears adapted for bendable engagement with the ends of the dome slot and the dome base, said plates being bowed lengthwise, their lower edges slotted, their upper portion perforated at each side and provided with bearing lips.

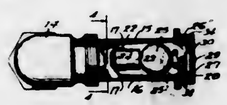
1,427,097. AUTOMATIC PISTOL. FIDEL FEEDERLE, Oberndorf-on-the-Neckar, Germany, assignor to Waffenfabrik Mauser, Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Filed June 17, 1921. Serial No. 478,349. 14 Claims. (Cl. 42—4.)

1. In an automatic pistol, a movable barrel, an obturating member adapted to slide in a prolongation of the said barrel, a lock-housing, a removable lock-frame in the said lock-housing, a movable interlocking block in the said frame adapted to couple the barrel and the obturating member to each other, a trigger guard, a



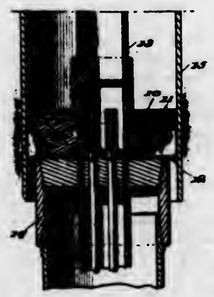
downwardly extending projection on the said lock-frame, and a vertically movable member at the front of the trigger normally engaged with the said downwardly extending projection to secure the lock-frame in the lock-housing.

1,427,098. AUTOMATIC VALVE. EDMOND J. FORTIER, Kankakee, Ill. Filed June 17, 1920, Serial No. 389,654. Renewed Feb. 10, 1922. Serial No. 535,811. 2 Claims. (Cl. 251—121.)



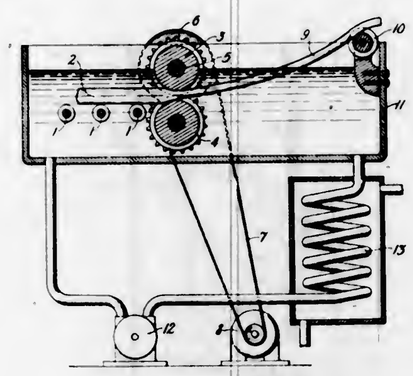
2. In a water system, a waste pipe provided with a trap and a normally closed automatic valve operatively connected with said waste pipe and positioned above the level of said trap, said valve comprising a substantially horizontal casing open at its outer end, a circular valve seat, means for holding said circular valve seat against the outer end of said valve casing, a ball valve disposed within said valve casing and adapted for engagement with said valve seat to close the outer end of said valve casing, and an inclined guide mechanism disposed within said valve casing for normally guiding said ball valve into closed position, whereby said ball valve is normally moved by gravity into closed position and is moved by suction into open position.

1,427,099. COLLAPSIBLE EXPANSION GASKET. LOUES FRIEDMAN, Muncie, Ind., and DAVID WALLACE, Tulsa, Okla. Original application filed Mar. 27, 1922, Serial No. 546,948. Divided and this application filed Mar. 29, 1922. Serial No. 547,887. 2 Claims. (Cl. 288—1.)



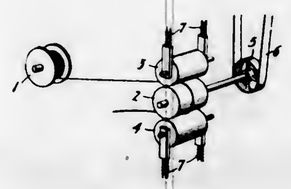
1. A collapsible expansion gasket for disposition within, and ready removal from, well casings, consisting of an annular body formed of soft rubber, having recesses in its outer contact surface adapting it to readily yield when in closely interfitting relation within a well casing.

1,427,100. METHOD OF WORKING METALS. OLIVER C. GILBERT, New York, N. Y. Filed July 1, 1918. Serial No. 242,811. 16 Claims. (Cl. 148—12.)



1. The process of increasing the tensile strength of a mass of non ferrous metal which consists in changing the physical form of the metal by external stresses and in compensating for the heat generated by said stresses simultaneously with said changes in physical form to maintain the metal below the annealing point during such operations.

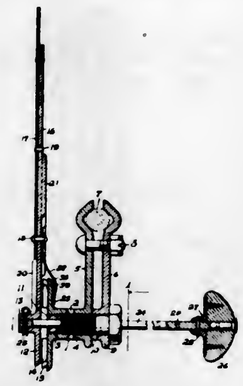
1,427,101. PROCESS FOR WORKING METALS. OLIVER C. GILBERT, New York, N. Y. Filed June 28, 1919. Serial No. 307,466. 2 Claims. (Cl. 80—37.)



2. That process of working tinsel which consists in drawing the material over a drum so as to keep it in a taut and slightly stretched condition while it is in engagement with a path on the surface of the drum, said path consisting of a series of successive circumferential points, and subjecting it, while in such a taut and slightly stretched condition, to the pressure of two idling rollers cooperating with the said drum at two circumferentially spaced points.

1,427,102. AUTOMOBILE DIRECTION SIGNAL. STANLEY D. GOSSARD, Blair, Nebr. Filed Oct. 27, 1921. Serial No. 510,943. 4 Claims. (Cl. 116—51.)

1. An automobile direction signal, comprising a discal semaphore support having a central threaded aperture, an axially-standing flange around said aperture and radial notches through said flange, a tubular attaching screw bolt disposed in said threaded aperture to engage a sub-support disposed between the bolt head and said semaphore support, an operating shaft of greater length than said tubular bolt, and disposed to slide endwise and revolve therein, a radial semaphore arm rigidly mounted on a projecting end of said shaft to releasably seat in any

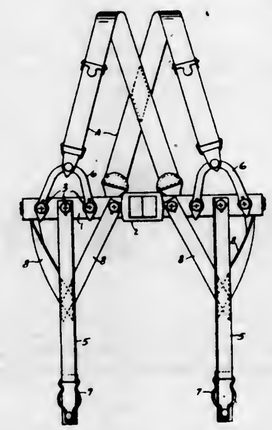


of said radial notches, and a spring connected to yieldingly retain said semaphore arm seated in said notches.

1,427,103. METHOD OF PRODUCING SMALL FORM PIECES, ESPECIALLY BUTTONS, FROM CALCINED GYPSUM, CEMENT, OR THE LIKE. ARTHUR HAENICKE, Berlin-Tempelhof, Germany, assignor to Carl Wilhelm Schulz, Berlin, Germany. Filed July 19, 1920. Serial No. 397,543. 2 Claims. (Cl. 25—155.)

1. The method of producing small form-pieces, especially buttons, from calcined gypsum, cement or the like, which consists in pressing the material in dry condition into an appropriate mold, lifting the still dry form-piece out of the mold and spraying the same with a suitable liquid for the purpose of effecting the setting of the material.

1,427,104. GARMENT SUPPORT. THRASHER HALL, Detroit, Mich. Filed Sept. 26, 1921. Serial No. 503,347. 2 Claims. (Cl. 241—4.)



1. A garment support, comprising a belt, a plurality of fasteners circumferentially spaced equidistant upon said belt, shoulder embracing means having tabs detachably engaging certain of said fasteners, and hose supporters

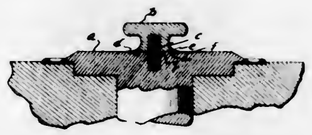
having strips detachably engaging certain of said fasteners astride the tabs of said shoulder embracing means and interchangeable therewith upon said fastenings.

1,427,105. HOSE COUPLING. ALEXANDER H. HANDLAN, Jr., St. Louis, Mo. Filed Oct. 16, 1919. Serial No. 331,238. 1 Claim. (Cl. 284—19.)



A coupling of the character described comprising a section having a valve pocket therein and a valve seat adjoining said pocket, a ball valve in said pocket, the portion of said pocket adjoining said valve seat being relatively small and approximately equal in diameter to the ball valve, said pocket having an enlarged portion permitting flow of fluid around the valve when the latter occupies its open position, guiding ribs in said enlarged portion having their edges flush with the wall of the relatively small portion of the pocket and in continuation thereof, said relatively small portion of the pocket and said guiding ribs forming an elongated guideway for guiding said ball valve in a straight line to and from the valve seat, and a section engageable with the first mentioned section and having a projecting valve-unseating plunger whereby said ball valve is displaced from said relatively small portion of the pocket and held at the guiding ribs in said enlarged portion.

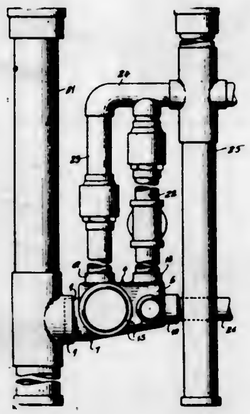
1,427,106. PERMUTATION LOCK. ARTHUR F. JACOBSON, Detroit, Mich. Filed June 10, 1921. Serial No. 476,378. 5 Claims. (Cl. 70—53.)



1. In a permutation lock, a numeral disk provided with a tapped central opening and a knob provided with a tapped central opening at its back, and a threaded fragile stud for holding the knob to the numeral disk.

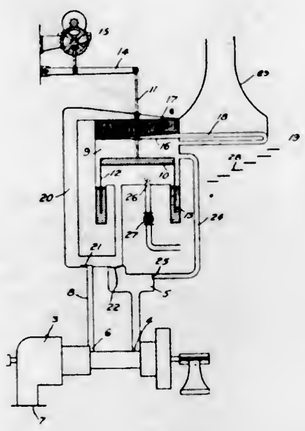
1,427,107. WASTE AND VENT PIPE FITTING. BENJAMIN KAPLAN, New York, N. Y. Filed Dec. 21, 1921. Serial No. 523,967. 3 Claims. (Cl. 4—21.)

1. A waste and vent fitting consisting of an elongated hollow body provided with outlet openings at each end by which pipes are joined to the fitting, the top wall of the fitting being made parallel to the axis of the fitting and the bottom wall being sloped downwardly from one end to the other end, one of the aforesaid end openings being offset from the other opening, the said body provided with



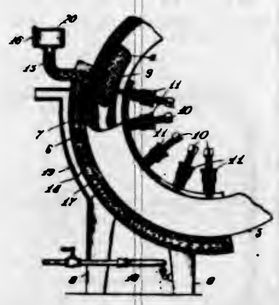
suitable pipe ducts by which connection is established with a vent pipe, and provided with right and left hand pipe ducts by which connection is established with bathtub, water, and sink fixtures.

1,427,108. POWER-DEVELOPING APPARATUS. ALEXANDER T. KASLEY, Swissvale, Pa. Filed May 8, 1918. Serial No. 233,330. 10 Claims. (Cl. 60—40.)



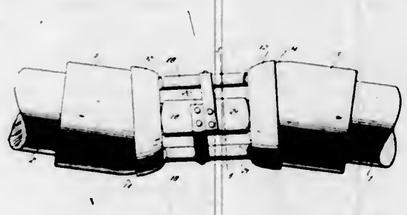
1. In combination in a power developing apparatus, a compound engine, means for delivering motive fluid to said engine and means for periodically withdrawing a portion of the motive fluid from the working passages of said engine after it has partially expanded, and means for delivering heat to the fluid so withdrawn and for returning the fluid to the inlet of the engine.

1,427,109. APPARATUS FOR VULCANIZING RUBBER ARTICLES. MAHLON O. KASSON, Chicago, Ill. Filed Dec. 5, 1921. Serial No. 519,833. 5 Claims. (Cl. 18—18.)



1. In a vulcanizing apparatus, the combination of a mold having a chamber open to the atmosphere, a liquid having a boiling point higher than the vulcanization temperature in said chamber, and means for heating said liquid to furnish the heat of vulcanization.

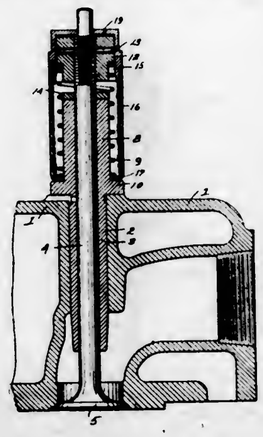
1,427,110. UNIVERSAL COUPLING OR JOINT. JOHN KNIGHT, Boundbrook, N. J., assignor to The John Knight Company, Inc., Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 17, 1921. Serial No. 437,655. 11 Claims. (Cl. 64—91.)



1. A coupling embodying a shaft provided at its end with a plurality of symmetrical cut-out portions, a spindle provided with a combined tooth and ball shaped ends, and a sleeve embracing the shaft and spindle and having an interior of uniform cross section throughout its entire length and said cross section being complementary to the shaft and the spindle ends, and all parts of the spindle ends which are in contact with the interior of the sleeve being curved to permit of articulation between the parts.

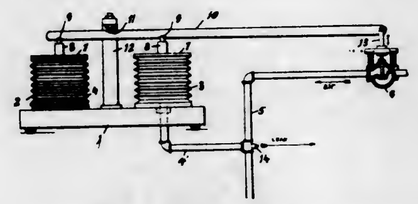
1,427,111. VALVE MECHANISM. HANS L. KNUDSEN, Milwaukee, Wis. Filed Jan. 26, 1918. Serial No. 213,847. 2 Claims. (Cl. 137—139.)

1. A valve mechanism comprising a valve seat, a valve adapted to cooperate therewith, a stem rigidly connected to said valve, an elongated guide surrounding said stem, a relatively stationary cylinder located adjacent the outer end of said stem, a piston operating in said cylinder to cushion the closing movement of said valve, and a cushioning member interposed between said piston and said guide



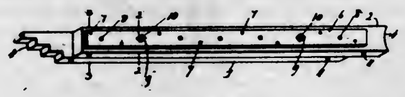
to cushion and limit the motion of said valve in the opening direction.

1,427,112. PRESSURE REGULATOR. ADOLPH W. LISSAUER, North Tarrytown, N. Y., assignor to W. L. Fleisher & Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 10, 1922. Serial No. 542,595. 5 Claims. (Cl. 236—92.)



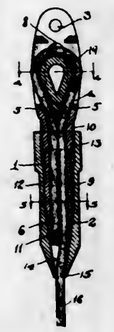
1. An apparatus of the class described, comprising a pair of expansible vessels, disposed to be subjected to the same temperature changes, one of the vessels being adapted to enclose a volatile liquid, a conduit connected to the other vessel, a valve on said conduit, means for permitting a constant leak from said conduit between the second mentioned vessel and the valve, and motion transmission means from the vessels to the valve, substantially as and for the purposes set forth.

1,427,113. BRAKE ADJUSTER FOR AUTOMOBILES, TRUCKS, AND THE LIKE. WILLIAM FRANK MARCH, Philadelphia, Pa. Filed Aug. 11, 1919. Serial No. 316,758. Renewed Jan. 21, 1922. Serial No. 530,999. 2 Claims. (Cl. 33—143.)



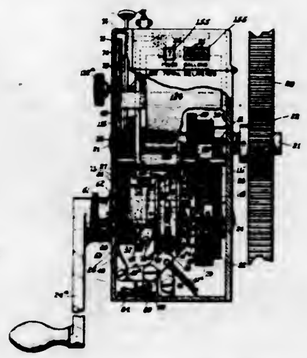
1. As a new article of manufacture a brake band adjuster for automobiles consisting of two members adjustable upon each other one of said members having steps formed upon the end thereof the other member having a curved end.

1,427,114. LOCK-WIRE TURNBUCKLE. WYATT MARTIN, Cleveland, Ohio, assignor of one-half to Cumming Cox. Filed June 17, 1918. Serial No. 240,442. 2 Claims. (Cl. 24—124.)



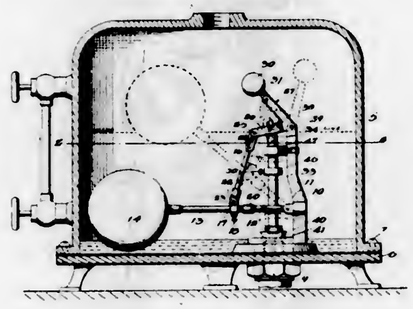
2. In a device of the character described, the combination of a chuck member having a lower split portion provided with two cable receiving apertures, and a slotted upper portion having inclined grooves in communication with such apertures, the exterior of such chuck member being apertured, a bobbin adapted to receive the cable thereabout and being pointed to wedge the cable in such inclined grooves, and a clamping member interiorly threaded and adapted to engage over said lower split threaded portion to clamp said cable in such apertures, said clamping member having a centrally placed aperture adapted to receive the extending portion of said cable and maintain it in alignment with the device.

1,427,115. LIQUID-MEASURING APPARATUS. JOHN F. MILLIGAN, New York, N. Y., assignor to Liquid Measuring Devices Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 17, 1916. Serial No. 84,840. 10 Claims. (Cl. 221—103.)



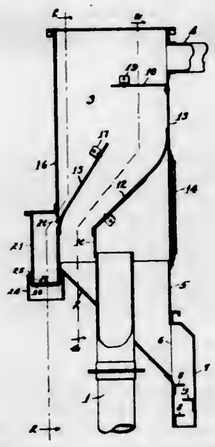
1. A liquid measuring apparatus embodying therein a driven shaft operatively connected with a pump, a driving shaft, independently operative connections between said shafts whereby said driven shaft may be turned in one direction, to cause the pump to deliver liquid and in the opposite direction to restore the pump to normal, manually operative means whereby one of said connections may be set to actuate the pump, and automatically acting means whereby said last named connection may be made inoperative to cause the pump to deliver only a predetermined volume of liquid comprising a measuring wheel, operative connections between said wheel and said driven shaft, a movable member through which said connections may be made operative or inoperative, a cam carried by said measuring wheel adapted to operatively engage said movable member, and means whereby said cam may be adjusted circumferentially of said wheel to vary its operative moment.

1,427,116. STEAM TRAP. GEORGE ANDREW MOLIQUE, Wood River, Ill. Filed May 13, 1921. Serial No. 469,283. 5 Claims. (Cl. 137—103.)



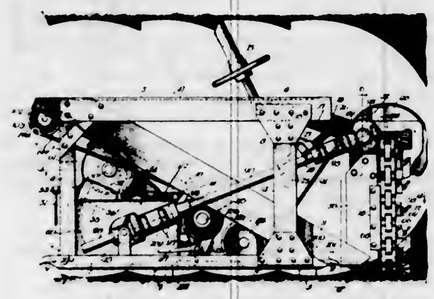
1. A steam trap comprising a standard, a valve having a stem slidably associated with the standard, a float having a pivoted arm, a link adjustably connected to said arm and having its upper end formed with a slot, a bell-crank having a branch provided with a pin slidable in said slot whereby the upward movement of said link engages the lower end of said slot with said pin for operating said bell-crank, a second link connected to said stem and having a slot, a second pin connected to said branch and slidable within said slot, and a weight connected to said bell-crank for elevating the valve.

1,427,117. SEPARATOR. EDWARD J. MOORE and RAYMOND H. MOORE, Cleveland, Ohio, assignors to The W. W. Sly Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 22, 1919. Serial No. 319,084. 11 Claims. (Cl. 83—54.)



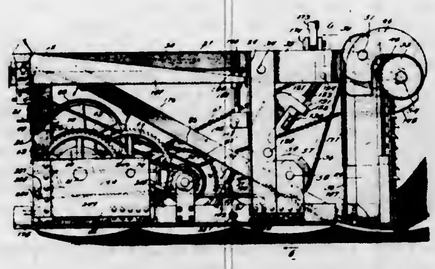
3. In a separator, the combination of a casing having an inclined bottom and a discharge opening above the lower end of such bottom, a pipe communicating with said casing above said bottom, means forming about the delivery end of said pipe and with said bottom an open-bottomed chamber above said outlet, means forming within said casing a second chamber communicating at its bottom with the first chamber and extending upwardly therefrom having a discharge outlet, and an outlet from said casing above the second chamber.

1,427,118. MINING AND LOADING MACHINE. EDMUND C. MORGAN, New York, N. Y. Filed Sept. 30, 1914. Serial No. 864,211. Renewed Oct. 4, 1920. Serial No. 414,556. 227 Claims. (Cl. 262—28.)



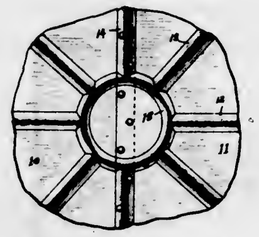
1. The combination with a frame, of cutting mechanism mounted thereon, means for operating said cutting mechanism in a vertical direction to cut a solid core of material from a mine wall, and apparatus comprising flexible means connected to said frame and adapted to be moved into the kerf cut by said cutting mechanism and engage the cut material directly for removing the same rearwardly.

1,427,119. MINING AND LOADING MACHINE. EDMUND C. MORGAN, New York, N. Y. Filed July 15, 1915, Serial No. 39,986. Renewed Oct. 30, 1920. Serial No. 420,821. 62 Claims. (Cl. 262—28.)



2. The combination with cutting mechanism, of means for operating the same, a frame for said cutting mechanism, a rope frictionally connected to said frame, winding apparatus connected to one end of said rope, a conveyer belt connected to the other end of said rope, and power mechanism connected to the other end of said belt.

1,427,120. REINFORCED STEEL PLATE. ROY A. NELSON, Chicago, Ill. Filed Aug. 11, 1919. Serial No. 316,539. 1 Claim. (Cl. 189—46.)

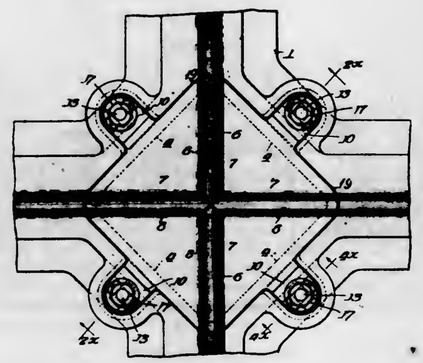


A sheet metal plate formed with an endless corrugation in its central portion with corrugations radiating therefrom to points adjacent the outer edges of said plate, the radiating corrugations being of substantially the same height as the central corrugation.

1,427,121. HEAT TREATMENT OF MANGANESE STEEL. WESLEY G. NICHOLS, Chicago, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Sept. 18, 1920. Serial No. 411,250. 5 Claims. (Cl. 148—13.)

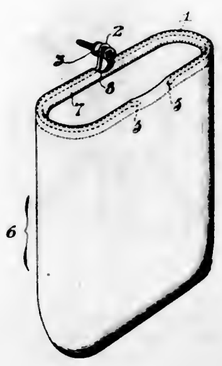
1. An improvement in the art of heat treating manganese steel castings, which consists in subjecting such castings to heat, the maximum temperature of which never exceeds the critical temperature for such castings.

1,427,122. INSERTED-CENTER RAILWAY CROSSING. WESLEY G. NICHOLS, Chicago, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Jan. 25, 1922. Serial No. 531,527. 7 Claims. (Cl. 246—460.)



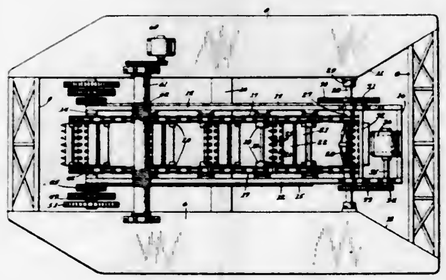
1. In a railway crossing, a frame, a crossing insert mounted in said frame, cushioning means adapted to absorb loads imposed on said insert, and means independent of said cushioning means for floating said insert.

1,427,123. BAG HOLDER. PHILIP W. PULIG, Philadelphia, Pa. Filed Oct. 20, 1921. Serial No. 508,916. 2 Claims. (Cl. 83—26.)



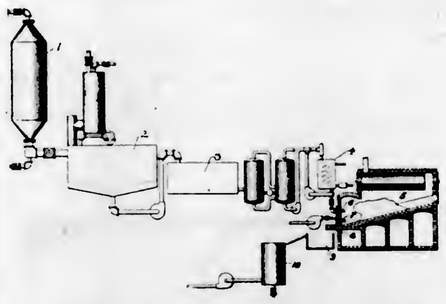
1. A bag holder comprising a single strand of wire bent to form an elongated loop with opposed substantially straight sides and rounded ends, the terminals of the strand terminating in closely spaced relation centrally of one of the straight sides, and an off-set at the other straight side of the holder directly opposite the terminals formed by bending the wire to produce an open sided eyelet, whereby the holder may be enclosed within the interrupted hem around the mouth of a bag by inserting one end in the interrupted portion and working the hem completely around the holder and around the eyelet, the latter being adapted to protrude through the interrupted portion of the hem for suspension upon a peg.

1,427,124. FLUID-CURRENT MOTOR. PAUL REINBERGER, Cleveland, Ohio. Filed Oct. 15, 1921. Serial No. 507,810. 1 Claim. (Cl. 37—11.)



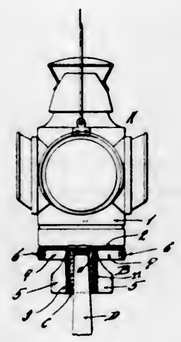
A motor comprising a pair of floats with a passage between, a triangular frame pivoted at its front end in said passage, and chain belts carrying paddles, traveling around said frame, said paddles comprising hinged sections permitting the paddles to fold upon contact with the ground, the outer sections of the paddles being provided with teeth to dig into the bed of a stream.

1,427,125. PROCESS OF FIBER LIBERATION. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Feb. 21, 1921. Serial No. 446,574. 8 Claims. (Cl. 92—11.)



1. The process of digesting cellulosic material for the production of cellulose fiber, which comprises cooking the raw material in a sulphurous acid solution of a soluble sulphate.

1,427,126. LAMP AND METHOD OF MAKING BASES THEREFOR. GEORGE H. ROLFES, St. Louis, Mo., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 7, 1920. Serial No. 415,354. 3 Claims. (Cl. 240—50.)



1. A lamp comprising a body, a base secured to said body, said base being provided with a mold member, a hollow adapter comprising a metal core cast in said mold member, the outer face of said adapter being in direct contact with the walls of said mold member so as to secure the adapter thereto, and said adapter being provided with an opening for the reception of a lamp supporting member.

1,427,127. ANTIFOULING METAL FOR PROJECTILES. STANISLAS ROUSSEAU and WILLIAM YOXALL, East Alton, Ill., assignors to Western Cartridge Company, a Corporation of New Jersey. Filed Mar. 7, 1921. Serial No. 450,423. 5 Claims. (Cl. 102—28.)

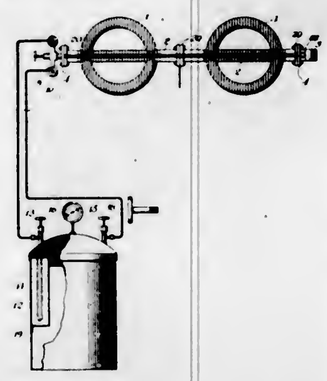
5. An improved composition of a suitable alloy to be rolled and drawn for bullet jackets and projectile bands of sufficient hardness to prevent disruption in the bore, and a small percentage of a suitable lubricating metal, such as tin, substantially as described and for the purposes set forth.

1,427,128. CLOSURE FOR GLASSES FOR PRESERVED FRUITS AND THE LIKE. HEDWIG SCHWIEGER, NÉE KIPP, Hanover, Germany, assignor to Heinrich Geering, Basel, Switzerland. Filed June 24, 1920. Serial No. 391,558. 2 Claims. (Cl. 215—38.)



1. In a closure for glasses for preserved fruits and the like, in combination, a lid having a tapered depression therein with a small orifice in its cup-shaped bottom, a soft-rubber stopper of corresponding formation in said depression having a narrow central slot-opening therein, and an opener for an eventual insertion in the slot-opening of said stopper consisting of an annular handle and a blade-like member having a central bore with a lateral port therein, substantially as and for the purpose set forth.

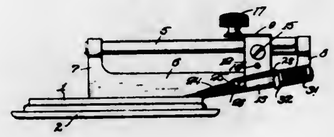
1,427,129. HYDROCARBON-GAS GENERATOR AND BURNER. HARRY C. SILLETT, Kansas City, Mo. Filed Feb. 27, 1920. Serial No. 361,816. 3 Claims. (Cl. 158—36.)



1. Fuel feeding apparatus, comprising main and auxiliary containers of fuel under fluid pressure, the latter housing a U-tube with a submerged orifice to admit the fuel, and an opening above the surface to admit the pressure fluid; a burner, including communicating conduits and an entrance piece at one end of the conduits curved over into the direction of the top of the conduits, a vaporizing pipe connected to the main container, with means by which it is supported in alinement above the conduit, including an adjustable nozzle directed into said entrance for the discharge thereinto of gas into which fuel oil in the pipe is converted; a pipe leading from the vaporizing pipe to the auxiliary container, and a double valve for controlling the fuel pipes.

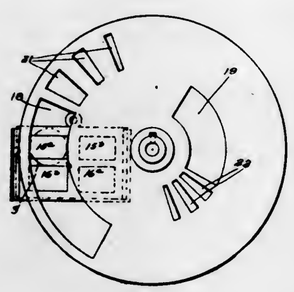
1,427,130. BLADE-SHARPENING MECHANISM. CHARLES A. STRAND, Chicago, Ill. Filed Sept. 27, 1920. Serial No. 413,012. 6 Claims. (Cl. 51—159.)

1. In a blade-sharpening device of the class described, the combination of a hone, a pivoted supporting member operatively connected with and movable longitudinally with respect to the hone and adapted to be swung in a plane transverse to the direction of relative movement of said supporting member longitudinally of the hone, an inclined bearing on the free end of said pivoted longitudinally movable supporting member and normally inclined with respect to the blade-engaging surface of the hone, a pair of operatively connected inclined invertible blade-clamping jaws having opposed lower blade-engaging margins extending transversely with respect to the hone and the path of relative movement of said pivoted supporting member longitudinally of the hone, and adapted



to support an inclined blade between said jaws in transverse relation to and in frictional engagement with the surface of the hone, an inclined axial supporting stem fixed to one of said jaws and extending at an angle with respect to the lower blade-engaging margins of the jaws and mounted in and in freely rotative engagement with said inclined bearing, and operating means on said axial stem and operatively connected with the other one of said jaws, for securing said invertible jaws in clamping engagement with a blade located therebetween.

1,427,131. CINEMATOGRAPH COLOR PROJECTOR. HESTER STEWART and REGINALD KILLICK, London, England. Filed Feb. 15, 1922. Serial No. 536,809. 19 Claims. Cl. 88—164.)

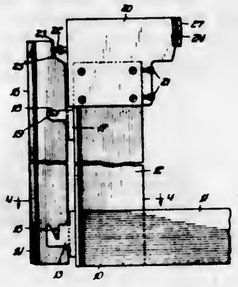


1. An apparatus for color cinematograph projection comprising a projector, means mounted in optical relation to the projector lens for dividing rays of image-bearing light into a plurality of beams, a color filter in the path of each beam, and movable means in operative relation to said projector for gradually interrupting said beams in predetermined alternate succession, said filters being colored to correspond to the color conditions prevailing during the filming of the picture.

1,427,132. PRECISION MEASURING INSTRUMENT. WILLIAM E. SWARTOUT, Chicago, Ill. Filed June 24, 1921. Serial No. 479,998. 13 Claims. (Cl. 33—93.)

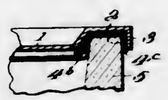
1. An instrument having two side edges angularly placed relative to one another, a straight edged member fulcrumed on said instrument adjacent to one of said edges, and measuring means mounted on said instrument

for accurately indicating the angularity between said straight edged member and the other of said edges, said measuring means being provided with a yielding member



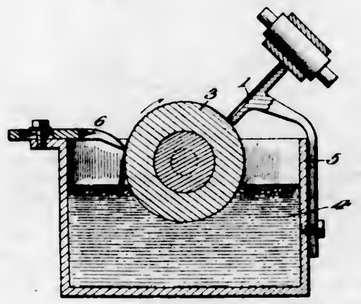
abutting said straight edged member, said measuring means being provided with means for visually indicating said angularity.

1,427,133. HERMETIC SEAL FOR CONTAINERS. THOMAS LUCIEN TALIAFERRO, Chicago, Ill. Filed June 21, 1920. Serial No. 390,501. 9 Claims. (Cl. 215—40.)



1. A hermetic sealing member for containers consisting of a plastic material having permanent sponge-like cells throughout the inner body portion thereof.

1,427,134. PROCESS OF FORMING SEALING MEMBERS FOR CONTAINERS. THOMAS LUCIEN TALIAFERRO, Chicago, Ill. Filed June 21, 1920. Serial No. 390,502. 3 Claims. (Cl. 113—80.)



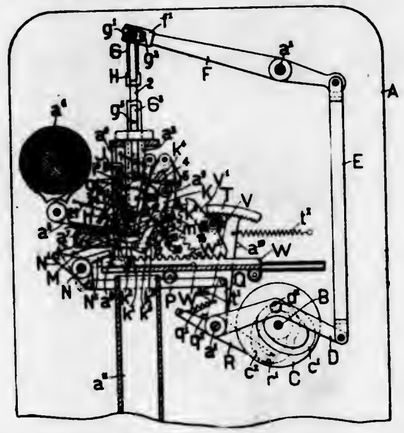
1. The process of forming a sealing member for containers consisting in providing a plastic mass including a plastic base and a volatile solvent, shaping said mass to the general form for sealing and subjecting said shaped mass to heat sufficient to cause permanent, visible sponge-like cells to form throughout the entire body portion of the mass and leaving the surface of the mass substantially continuous.

1,427,135. GAME. FRED TENNEY, Doncaster, England. Filed Dec. 22, 1919. Serial No. 346,628. 6 Claims. (Cl. 46—57.)



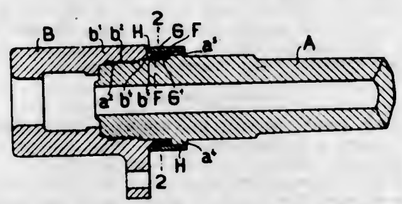
1. A game apparatus comprising a stationary board, and a rotatable disc mounted on said board and having a concave upper surface, said board having an annular channel concentric with said disc and pockets in the bottom of said channel spaced away from the edge of said disc and adapted to receive a ball thrown off from the surface of said disc.

1,427,136. AUTOMATIC STAMP-DELIVERY MACHINE. HERMANN THUN, Essen-on-the-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 6, 1920. Serial No. 428,800. 8 Claims. (Cl. 216—33.)



1. In a stamp delivery machine, a driving element, a moistener, two systems of connections interposed between said driving element and said moistener whereby when a letter to be posted has been introduced one of said systems will move said moistener over the adhesive surface of the stamp while the other system keeps said moistener out of the path of the stamp to be issued when a letter is not inserted.

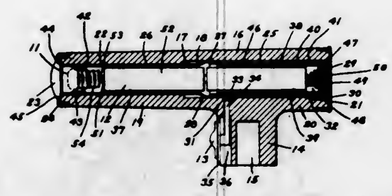
1,427,137. GUN BARREL WITH BREECH PIECE SCREWED ON A-TUBES. JOHN VOLLMER, Essen, Germany. Original application filed Nov. 19, 1920, Serial No. 425,106. Divided and this application filed June 28, 1921. Serial No. 481,028. 4 Claims. (Cl. 89—16.)



1. A gun barrel comprising an A-tube, a breech-piece, said breech-piece being provided with an annular extension,
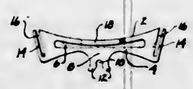
said A-tube being provided with a collar, said annular extension and collar being opposed and shaped to receive a multiplicity of wedges.

1,427,138. UMBRELLA-HANDLE LIGHTING DEVICE. LUDWIG WALICKI and CHARLES BORER, New Britain, Conn. Filed Nov. 16, 1921. Serial No. 515,660. 3 Claims. (Cl. 240—8.4.)



1. An umbrella-handle lighting device comprising a handle body having a bore that extends therethrough from end to end, a unit housed in said bore and comprising a tubular housing structure, a battery extending along the interior of said structure, a lamp bulb at one end of the said structure, and an inner sleeve opposed to said structure, and an insulating sleeve intermediate said inner sleeve and structure, means connecting said structure and one of the terminals of said bulb, means connecting said inner sleeve with the other terminal of said bulb, and a circuit closing device operative to interconnect said inner sleeve and tubular housing structure.

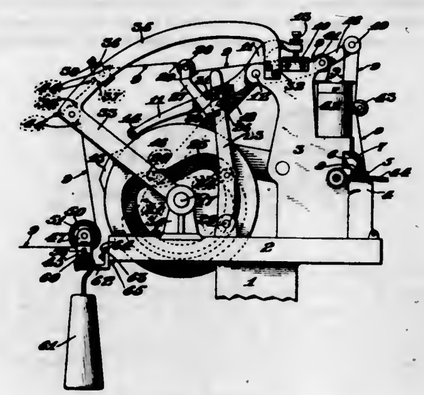
1,427,139. NECKTIE SUPPORTER. CHARLES R. WHEELER, Greene, N. Y. Filed Mar. 14, 1921. Serial No. 452,033. 5 Claims. (Cl. 2—84.)



1. A necktie holder comprising a horizontally elongated frame including longitudinal bars, said frame having at its ends upwardly and outwardly inclined slots open at their upper ends to receive the band of a tie, means carried by one of the longitudinal bars of said frame for supporting said frame upon a collar button, the other bar of said frame being offset somewhat to the front of said aforementioned bar when the frame is supported upon the collar button, whereby the upper loop of a four-in-hand tie may be carried by said forwardly offset bar in front of said first mentioned bar.

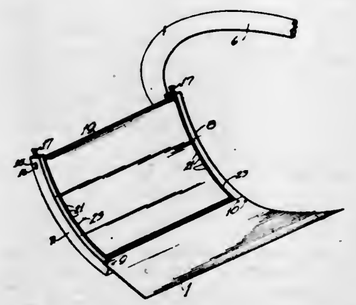
1,427,140. SEWING MACHINE. JOHN L. WHEELER, St. Louis, Mo., assignor to Simplex Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 23, 1917. Serial No. 203,516. 4 Claims. (Cl. 112—59.)

1. In a sewing machine, stitch-forming mechanism, a thread-meshing and take-up mechanism operating in conjunction with said stitch-forming mechanism, a tension device through which the thread passes between the source of thread supply and said thread-measuring mechanism,



and a pressure device for said tension device including a lever having a weight in a predetermined fixed position thereon.

1,427,141. PLOW. RAY H. WILSON, New Holland, Ill. Filed Mar. 16, 1921. Serial No. 452,833. 1 Claim. (Cl. 97—23.)

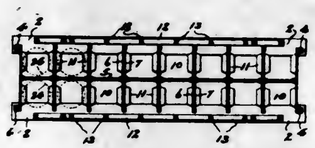


In a plow, a pair of parallel moldboard frame members, each having a rigid connection at its lower end with the upper edge portion of the plow share, said frame members being fashioned with parallel longitudinally extending guide grooves in their inner faces adjacent to the upper edge thereof and with longitudinally extending guide shoulders offset outwardly from their inner faces along the lower edges thereof, a pair of transversely disposed parallel rollers rotatably supported between the frame members adjacent to the upper and lower ends thereof, an endless apron passed around said rollers, and spaced transverse slats secured to the inner side of said apron and arranged with their opposite ends in position to slidably engage the said guide grooves and in sliding contact with the inner faces of said guide shoulders.

1,427,142. RACK. FREDRICK J. WOLFF, Newark, and ARNOLD H. WEGENER, Hoboken, N. J. Filed Jan. 8, 1921. Serial No. 435,803. 1 Claim. (Cl. 211—14.)

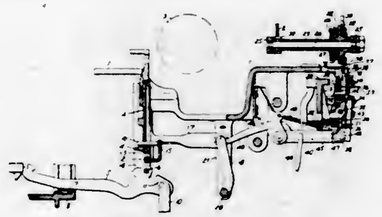
In a device of the kind described, a pair of laterally spaced bottom bars, a pair of laterally spaced top bars, partition members supported between said top and bottom bars to provide a plurality of vertical compartments, a sliding gate member in front of said compartments, said gate member comprising interconnected horizontal bars

and vertical bars, said vertical bars being spaced apart at a distance equivalent to the width of said compartments and disposed when said gate member is closed midway between the sides of said compartments, upwardly projecting brackets secured to the upper horizontal bar of said gate member, said top bars having longitudinal



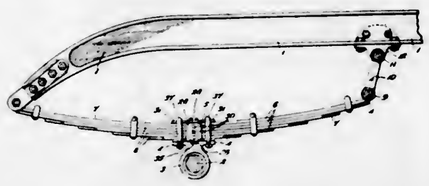
slots through which said brackets project, rollers journaled in connection with said brackets to ride on said top bars, guide lugs projecting downwardly from the lower horizontal bar of said gate member, said bottom bars having longitudinal slots in which said guide members ride, and means for securing said gate member in closed position.

1,427,143. TYPEWRITING MACHINE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Sept. 3, 1918. Serial No. 252,377. 15 Claims. (Cl. 197—82.)



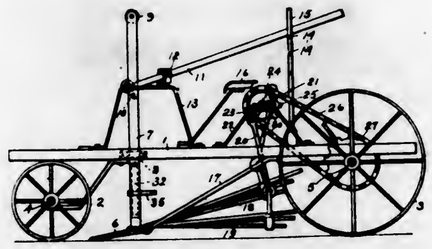
1. In the carriage escapement of a typewriting machine, the combination with an escapement rack, of a normally engaged stepping dog, a normally disengaged dog, means for adjusting said disengaged dog to vary the extent of drop, and means for arresting said stepping dog earlier in its stepping motion when said disengaged dog is adjusted for a long drop than when adjusted for a shorter drop or for no drop.

1,427,144. VEHICLE SPRING AND CLIP THEREFOR. GEORGE E. WYNNE, Lenoir, N. C., assignor of twenty per cent to W. B. Lindsay and twenty per cent to W. L. Lenoir, both of Lenoir, N. C. Filed Feb. 1, 1921. Serial No. 441,661. 5 Claims. (Cl. 267—53.)



3. A vehicle spring clip comprising a base member provided with a depending boss and with rigid angularly disposed side members each of which is provided with a slot and with a perforation; a top plate member adapted to engage said side members; and means adapted to coact with said perforations and said top member to temporarily hold all of said members in place upon a spring, substantially as described.

1,427,145. POTATO DIGGER. FRANC A. YANTZ, Burlington, Vt. Filed May 25, 1921. Serial No. 472,340. 5 Claims. (Cl. 55—111.)



1. In a potato digger the combination with a frame mounted on wheels and adapted to be drawn over a row of potatoes, of a plow adapted to lift the potatoes, brace rods secured to the plow and pivoted at their rear ends to the frame, screen rods pivoted to the plow and extending rearward therefrom and means for supporting their rear ends, vertical bars secured to the plow and extending upwardly therefrom, a cross bar connecting the vertical bars, a lifting lever pivoted at its forward end to said cross bar and means for locking it to prevent depression of the plow, and means carried by one of the vertical bars for sweeping the potato tops to one side.

4. In a potato digger the combination with a frame mounted on wheels and adapted to be drawn over a row of potatoes, of a plow adapted to lift the potatoes, brace rods secured to the plow and pivoted at their rear ends to the frame, screen rods pivoted at their forward ends to the plow and extending rearward therefrom, vertical bars secured to the plow and extending upward therefrom and means connected with said vertical bars for raising the plow and holding it against depression, and means in rear of the screen rods for delivering the potatoes to one side of the path of movement of the machine.

1,427,146. TIRE-PRESSURE METER. ADOLPHUS A. ANDERSON, Hagerman, Tex. Filed Jan. 6, 1922. Serial No. 527,373. 2 Claims. (Cl. 116—34.)

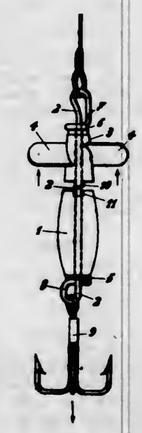
2. In an automatic pressure meter of the character described, the combination of a main tube attached to the valve stem of a pneumatic tire tube, a longitudinally expansible flexible tube within the said main tube, a valve mounted on the movable end of the said expansible tube, means to normally hold the valve in closed position, a rocker arm pivotally mounted and engageable with the stem of the said valve, a spring trip member carried by the said rocker arm, an adjustable nut mounted in the tube and adapted to be longitudinally movable for setting the valve to various pressures, a trip pin carried by the adjustable member, and adapted to engage the rocker arm when excessive pressure occurs, and an annular lip adapted to engage the low pressure trip member when a low pressure occurs, either of the said trip members

being adapted to operate the rock arm for moving the valve stem to open the said valve, a signal whistle and



means mounted in the body of the whistle to be actuated by the air escaping from the tube for sounding the said whistle.

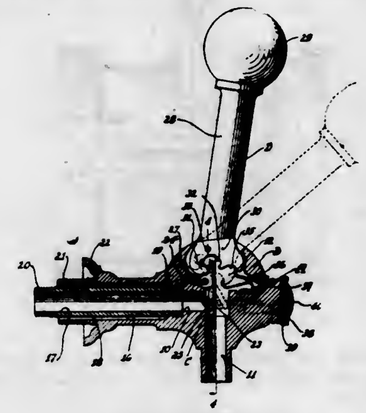
1,427,147. ARTIFICIAL BAIT. WILHELM BARSCH, Lucerne, Switzerland. Filed Sept. 16, 1919. Serial No. 324,168. 1 Claim. (Cl. 43—47.)



An artificial bait comprising two loose body parts one of which being a head provided with fins and the other being a back part heavier than the head both rotatably mounted on a common wire pin and axially displaceable thereon, the wire pin forming at each end an open eyelet to receive on one end the line, on the other the fish hook, the two body parts being provided one with a tooth the other with a corresponding groove to work substantially as described and for the purpose set forth.

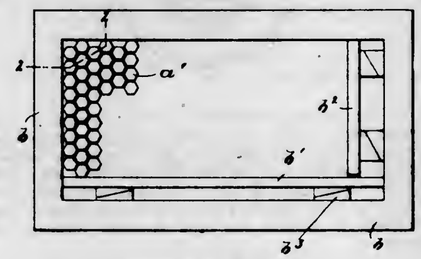
1,427,148. FAUCET FOR SODA FOUNTAINS. FREDERICK W. A. BROCKMILLER, St. Petersburg, Fla. Filed Apr. 22, 1921. Serial No. 463,672. 3 Claims. (Cl. 251—125.)

1. A faucet comprising a body having a valve seat, a flap valve arranged to fit upon the seat including a body having a transversely extending hinged barrel arranged adjacent to its upper end, a pivot pin arranged through the barrel for supporting the valve, an operating member for the valve including a lever, a head formed on the lower end of the lever, a pivot pin extending through



the head for rockably supporting the lever and head, a cam on said head arranged to engage the flap valve above the hinged barrel, and a leaf spring engaging the head on the opposite side thereof from the cam for normally holding the cam in engagement with the flap valve.

1,427,149. ARTIFICIAL COMB AND THE ART OF PRODUCING THE SAME. WALTER G. COOK, Watertown, Mass. Filed Nov. 17, 1919. Serial No. 338,701. 8 Claims. (Cl. 6—10.)



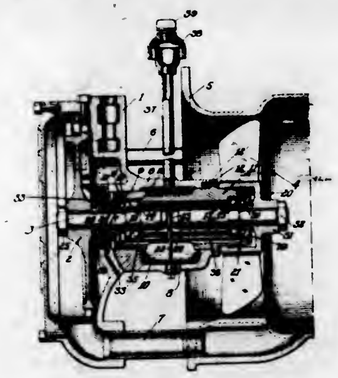
1. The process of producing artificial honey combs which consists in forming the material selected for the comb into a cellular comb-like structure by molding it between suitable dies and then dis-integrating the die material itself so as to separate the dies from the comb structure without tearing or breaking the cell-walls substantially as described.

4. A die for forming honey combs comprising opposed members of soluble material compressed to a suitable degree of hardness and cohesion to form a molding agent for producing a comb-like structure out of an interposed body of plastic material.

1,427,150. TURBINE-DRIVEN BLOWER. FRANK H. C. COPPUS, Worcester, Mass., assignor to Coppus Engineering and Equipment Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 2, 1920. Serial No. 400,746. 12 Claims. (Cl. 230—11.)

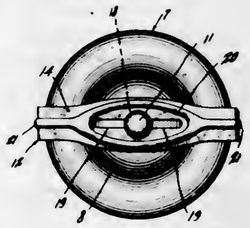
8. In mechanism of the class described, the combination with a shaft provided with a fan and a casing

provided with a reservoir for lubricant, of a sleeve providing bearings for said shaft and insertible, with



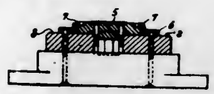
said shaft, into said reservoir, and means for admitting air to said reservoir from beyond the zone of suction of said fan.

1,427,151. JAR CLOSURE. ORIN C. DAVIS, Manistee, Mich. Filed Dec. 1, 1921. Serial No. 519,203. 3 Claims. (Cl. 215—91.)



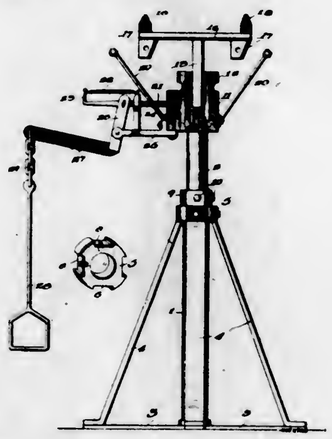
1. A jar closure comprising a cover having a boss provided with a head; and a yoke journaled and held on the boss beneath the head, the yoke having an opening receiving the boss and of less diameter than the head, the yoke being equipped with a slot communicating with the opening and providing for a distortion of the yoke sufficiently to permit the head to pass through the opening.

1,427,152. METAL CONTAINER AND THE LIKE. ALFRED BERTHOLD ANDREAS FICH, Copenhagen, Denmark. Filed Sept. 20, 1920. Serial No. 411,490. 4 Claims. (Cl. 113—15.)



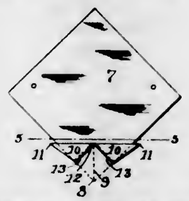
1. An apparatus for producing weakened lines in metal tin plate comprising a die; and an edgewise disposed steel strip inserted in said die, said strip having a working edge rectangular throughout and projecting beyond the pressing face of said die, said rectangular working edge being entirely free from any adjacent members so as to insure that the entire edge will act upon the metal plate worked upon and will exert a compressing action, as distinguished from a displacing action, along the lines to be weakened in said plate.

1,427,153. MOTOR STAND. CHARLES VIGUS FISHER, Muncie, Ind. Filed Mar. 31, 1920. Serial No. 370,209. 3 Claims. (Cl. 29—89.)



1. A device of the character specified comprising a sectional post, the sections being adjustable vertically with respect to each other, means for holding the sections in adjusted position, a block connected with the uppermost section, and a motor supporting bracket adjustably connected with the block, normally active means for holding the bracket in adjusted position with respect to the block, and a treadle for releasing said means.

1,427,154. FLEXIBLE SHINGLE. ALBERT ABBE GRISWOLD, Providence, R. I., assignor of one-half to John Francis Chevalier, Brookline, Mass. Filed Feb. 14, 1921. Serial No. 444,970. 4 Claims. (Cl. 108—8.)



1. A flexible shingle having two oppositely disposed turned under fastening flaps with ends which protrude beyond the edges of the shingle, said fastening flaps being adapted to go under the edges of shingles previously laid, for the purpose as described.

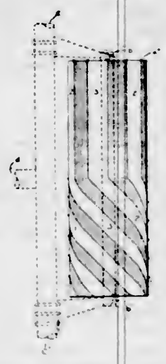
1,427,155. COLLAPSIBLE ARBOR. HIRAM L. HAVEN, Lexington, Mass. Filed July 20, 1921. Serial No. 486,143. 5 Claims. (Cl. 279—7.)



1. An arbor comprising in combination, a casing adapted to be mounted on the live spindle of a lathe; a one-piece work-holding member located within said casing and having a threaded contractible and expansible work-receiving portion projecting beyond the outer end

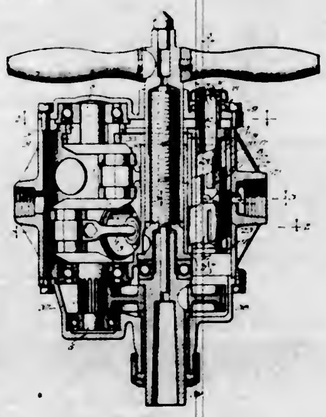
of said casing; a plug mounted within said work-holding member and secured against longitudinal movement with reference to said casing; and means for moving said work-holding member longitudinally in either direction within the casing, said casing, said work-holding member and said plug each being provided with coacting cam faces which serve to contract the work-receiving portion of the work-holding member upon movement of said member in one direction, and to expand said portion upon movement of said member in the opposite direction.

1,427,156. GAME. THOMAS H. JOHNSON, Philadelphia, Pa. Filed Nov. 7, 1919. Serial No. 336,386. 5 Claims. (Cl. 46—59.)



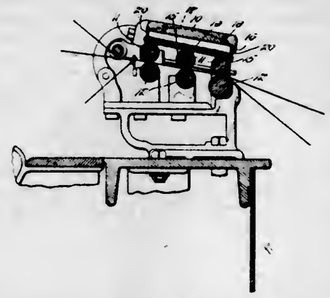
1. In a game, the combination of a rotatable target, a plurality of divisions on said target, distinguishing features on said divisions, said divisions and distinguishing features being positionally changeable with reference to the axis of rotation of said target.

1,427,157. FLUID-PRESSURE MOTOR. WILLIAM H. KELLER, MAX MAXIMILIAN, and ALBERT SCHINKEL, Grand Haven, Mich., assignors to William H. Keller, Inc., Grand Haven, Mich., a Corporation of Michigan. Filed Apr. 15, 1918. Serial No. 228,570. 17 Claims. (Cl. 121—33.)



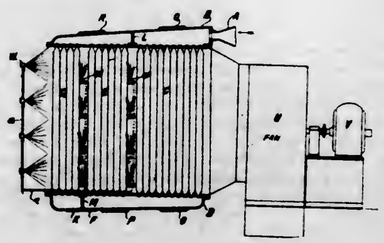
1. A motor having, in combination, two cylinders arranged at an angle to each other, a casing located in the angle between the cylinders, means providing passageways connecting said casing to both of the cylinders, said casing having two diametrically opposite inlet ports, a sleeve extending concentrically within said casing and forming an annular chamber in the casing, said sleeve having two exhaust ports therein, two segmental valve members mounted in said annular chamber, each of said valve members having an inlet port and an exhaust port adapted to register alternately with one of said passageways, the inlet ports of the valve members being arranged to communicate with the respective inlet ports of the casing, and the exhaust ports of the valve members being arranged to communicate with the respective exhaust ports of said sleeve, and means for oscillating said valve members.

1,427,158. TOP-ROLL CLEARER BOARD AND APRON CLIP FOR DRAWING FRAMES. ARTHUR H. LAMBERT and JOSEPH DUBOIS, Biddeford, Me. Filed Mar. 23, 1921. Serial No. 454,738. 5 Claims. (Cl. 19—139.)



5. A clearer board for the top rolls of drawing frames and aprons mounted upon the under face thereof, the aprons at their forward ends being held spaced a greater distance from the face of the board than at their rear ends and the distance between the forward and rear ends of the aprons being greater than the distance between the forward and rear faces of the forward and rear rolls respectively whereby to cause the apron to extend down over the front roll.

1,427,159. AIR-COOLED OR EVAPORATIVE SURFACE CONDENSER. JAMES MACLEOD, Glasgow, Scotland, assignor of one-half to Hugh Reid, Glasgow, Scotland. Filed Feb. 28, 1921. Serial No. 448,700. 3 Claims. (Cl. 257—39.)



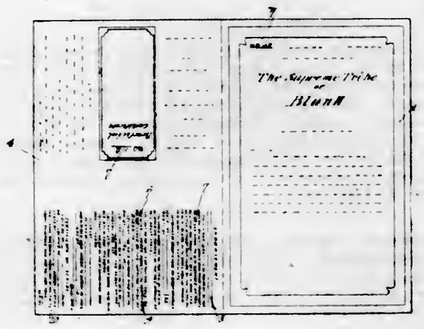
1. A condenser having surface heat-exchanging tubes or elements in groups, the rows of tubes or elements of each group being staggered with relation to the rows of elements of an adjacent group, means for passing a cooling medium successively over the tubes or elements of said groups, and means for spraying evaporative liquid on the elements of the first group traversed by the cooling medium.

1,427,160. HOOK-SWITCH MECHANISM. RAY H. MANSON, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 19, 1917. Serial No. 202,739. 7 Claims. (Cl. 179—178.)



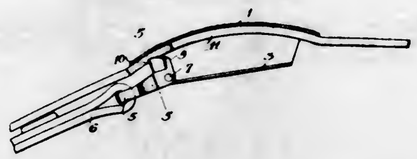
6. In a telephone instrument, a support, a hook switch mounted thereon, a switch lever therefor, having a plurality of operative positions and a normal position, a latch for retaining said lever in one of its operative positions, a pin on said support on which said latch is rotatably mounted, said latch including a hook extending vertically from said pin and a member integral with said hook extending in one direction to close a portion of the open side of the hook to provide a constricted entrance to said hook.

1,427,161. CERTIFICATE. EDWIN MAHLON MASON, Crawfordsville, Ind., assignor to The Supreme Tribe of Ben Hur, Crawfordsville, Ind. Filed Aug. 8, 1918. Serial No. 248,968. 1 Claim. (Cl. 283—54.)



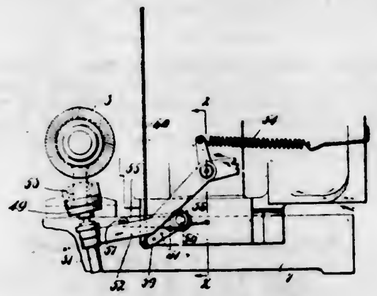
The combination in a single paper, of an insurance certificate having an identifying character and a draft having a duplicate of said character, said draft adapted to be removed from the certificate and presented to a bank for payment like an ordinary draft, there being means for indicating the points along which the draft is to be separated from the certificate, said certificate containing a statement of certain conditions upon which the payment of the insurance is dependent, said conditions including a promise to pay a definite specified portion of the insurance as a death benefit immediately upon the death of the insured and without other proof of death than the affidavit of the beneficiary verified by the certificate of the agent of the payor, the said draft being drawn for the amount of said death benefit and payable upon the death of the insured, there being arranged upon the back of the draft, and within the area to be removed from the certificate, an affidavit and a certificate, said affidavit to be executed by the beneficiary prior to presentation for payment and setting forth that the conditions of the certificate have been complied with, and said certificate to be signed by the agent of the payor prior to presentation of the draft for payment and vouching for the truthfulness of the facts in the certificate.

1,427,162. BELT BUCKLE. EDWIN S. MIX, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Mar. 30, 1922. Serial No. 548,169. 2 Claims. (Cl. 24—191.)



1. A belt buckle comprising a buckle frame having a clamping surface thereon, and a pivoted clamping member having a rib for cooperation with the clamping surface on the buckle frame, said rib extending in the direction of the axis of rotation of the clamping member and having a surface which gradually increases its distance from the axis of rotation of the clamping member and also gradually shifts about said axis of rotation.

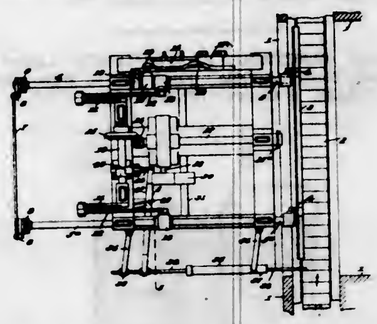
1,427,163. BLADE-SHARPENING MACHINE. WILLIAM E. NICKERSON, Cambridge, Mass., assignor to Gillette Safty Razor Company, Boston, Mass., a Corporation of Delaware. Original application filed Nov. 19, 1917. Serial No. 202,708. Divided and this application filed Oct. 28, 1919. Serial No. 334,081. 5 Claims. (Cl. 51—263.)



1. Means for applying dressing to a grinding wheel, comprising a stick of dressing paste, a holder to which the stick is secured at one end, and a support in which the holder is detachably mounted for rotation on an axis extending lengthwise of the stick.

1,427,164. LEER FEEDER. RAYMOND W. NIVER, Elmira, N. Y., assignor to Thatcher Manufacturing Company, Elmira, N. Y., a Corporation of New York. Filed Feb. 3, 1922. Serial No. 533,792. 25 Claims. (Cl. 198—24.)

19. In a leer feeder, the combination of a continuously moving carrier adapted to transport articles transversely of the entrance passage of a leer, means movable transversely across the carrier toward and from the leer and adapted to transfer articles from the carrier and longitudinally of said passage when moving toward the leer, a stop preventing articles being positioned in the path of said transfer means while the latter is moving across the carrier toward the leer, said stop being automatically rendered inoperative as soon as the operative member of



the transfer means has passed over the carrier toward the leer, and means for effecting vertical movement of the operative member of the transfer means during its movement away from the leer.

1,427,165. CLOSURE FOR ENVELOPES OR SIMILAR WRAPPERS. LUIS ARNAVAT OLIVÉ, Barcelona, Spain. Filed Oct. 6, 1919. Serial No. 328,783. 2 Claims. (Cl. 229—78.)



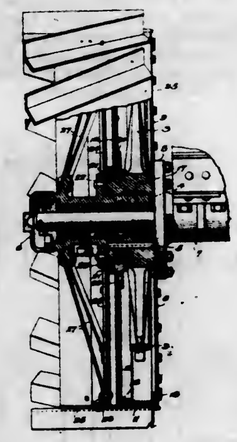
1. A clasp comprising a member having a flexible central arm and a pair of side arms which converge to one end of the central arm, the opposite end of said central arm being widened, said widened end having side flanges and a locking tongue between and spaced from said side flanges, and a second member having attaching means and also having a casing to receive the widened end of the central arm of the first named member and a locking tongue in said casing for engagement with the first named locking tongue.

1,427,166. TANK OR STORAGE RECEPTACLE. WILLIAM H. PARTON, Huron, S. Dak., assignor of one-half to Wear-Ever Tank & Paint Co., Huron, S. Dak. Filed Oct. 14, 1920. Serial No. 416,786. 4 Claims. (Cl. 220—5.)



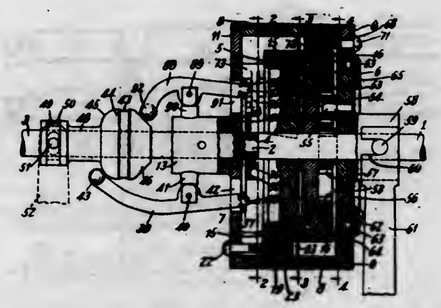
4. In an expansible tank having a foundation, forming the bottom, built of hard mineral material in the ground, a central post placed firmly in the ground and extending upwardly through said bottom to the top of the tank, a cylindrical wall around the edge of said bottom, said wall comprising a plurality of corrugated sheet metal sections having overlapping edges provided with elongated holes and bolts engaging in said holes to draw the edges together, a packing of porous material being inserted between the edges of said sections and between said bottom and post on the one hand and said bottom and the sides on the other hand.

1,427,167. TRACTION WHEEL. HUGH PARTRIDGE, Jacksonville, Fla., assignor to Partridge Tractor Company, Inc., Jacksonville, Fla., a Corporation of Florida. Filed Feb. 7, 1920. Serial No. 356,870. 3 Claims. (Cl. 74—7.)



1. The combination with a traction wheel having a hub and a relatively wide rim, a toothed gear wheel keyed to the hub and a pinion meshing with said gear wheel, of a guard concentric to said traction wheel and arranged wholly within the space bounded by the inner surface of the rim of the traction wheel and the planes of the opposite edges of said rim, said guard enclosing said gear wheel and pinion and comprising peripherally connected inner and outer plates, the inner plate having openings to accommodate said hub and pinion and the outer plate having an opening to accommodate said hub.

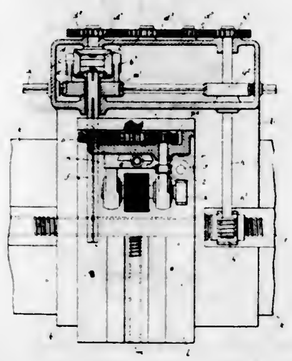
1,427,168. REVERSIBLE CLUTCH. RUDOLPH PINDER, Medford, Mass. Filed Nov. 23, 1920. Serial No. 426,080. 11 Claims. (Cl. 74—59.)



1. A clutch member having, in combination, a pair of shafts, a pair of clutch members mounted upon one of said

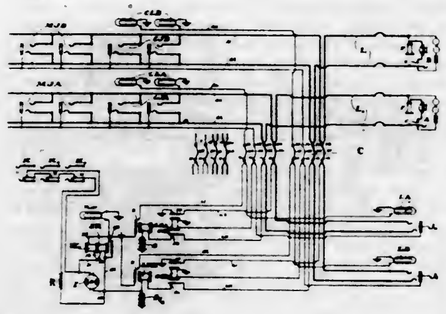
shafts, one of said clutch members being fast to said shaft and the othed clutch member being loose thereon, means interposed between said last named clutch member and said shaft adapted to rotate said clutch member in a reverse direction upon said shaft, an outer clutch member fast to the other of said shafts and comprising a casing surrounding said first and second named clutch members, a pair of clutch rings, one of said clutch rings being located between said first and second named clutch members and the outer clutch member, means to hold one end of each of said clutch rings in fixed relation to said outer clutch member and means to cause said clutch rings to frictionally engage the clutch member located therein.

1,427,169. MILLING SCREW THREADS. GEORGE RICHARDS and LESLIE NEWMAN BURT, London, and JAMES EDWARD FREEBORN, Walthamstow, England. Original application filed Apr. 8, 1920, Serial No. 372,315. Divided and this application filed Feb. 1, 1921. Serial No. 441,666. 3 Claims. (Cl. 10—154.)



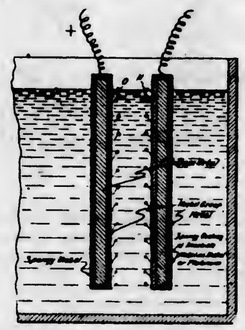
3. In a screw-thread milling machine wherein a cutter of the "hob" type is employed, the combination, with a saddle-traversing worm-shaft, of a cutter-spindle driving shaft, the two shafts being coupled together by way of a differential speed-gear.

1,427,170. TELEPHONE-EXCHANGE SYSTEM. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 5, 1917. Serial No. 205,599. 12 Claims. (Cl. 179—54.)



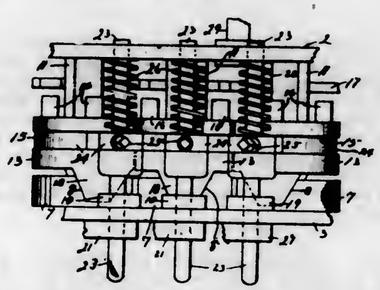
5. In a telephone system, the combination with a plurality of multiply connected switchboard lamps, of a resistance unit and a source of current in the common circuit thereof, an intermittent shunt for the said resistance unit, and a manual switch for varying the quantitative value of the said resistance unit.

1,427,171. ELECTROLYTIC APPARATUS. ALBERT W. SMITH, Cleveland, Ohio. Filed Nov. 8, 1920. Serial No. 422,638. 8 Claims. (Cl. 204—4.)



1. Apparatus for the electrolytic decomposition of water comprising, in combination, a pair of electrodes consisting of metals from the nickel group in the periodic table having their faces covered by spongy coatings of metals unaffected by the electrolyte.

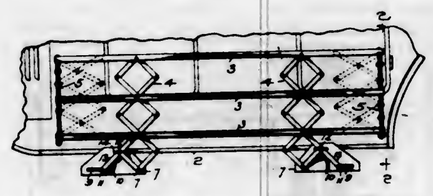
1,427,172. LACE-BRAIDING MACHINE. EDWIN LEROY SMITH, Philadelphia, Pa., assignor to Oscar Branch, Philad lphia, Pa. Filed July 1, 1921. Serial No. 481,761. 4 Claims. (Cl. 96—12.)



4. In a device of the character stated, a bottom plate, a locking block having oppositely disposed V shaped notches and a central recess, a fixed post the lower end of which is threaded and adapted to pass through the locking block and the bottom plate, a collar formed integral with said post adjacent its lower end, said collar registering with the recess in the locking block, and a nut on the threaded end of said post for securely fastening the latter and the locking block upon the bottom plate.

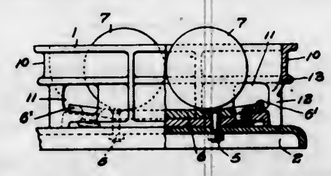
1,427,173. LUGGAGE RACK. FRANK M. STOLL, Denver, Colo. Filed Dec. 15, 1920. Serial No. 430,916. 5 Claims. (Cl. 224—29.)

3. A collapsible luggage rack comprising in combination with the running board of an automobile, brackets extending below the edge thereof, lazy tong uprights movably connected to the brackets, parallel rails pivotally connected to the uprights and spaced to fall upon each



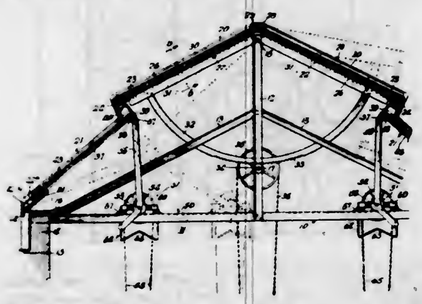
other when said uprights are in a folded condition, and means on the brackets engaging with the uprights for locking the latter in their extended position.

1,427,174. ROLLER SIDE BEARING. ARNOLD STUCKI, Pittsburgh, Pa. Filed June 23, 1921. Serial No. 479,777. 3 Claims. (Cl. 64—64.)



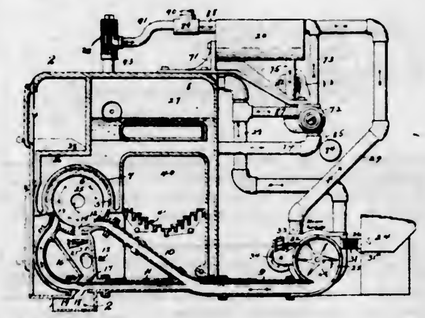
1. A side bearing for lower bolsters of railway cars, comprising a housing having its bottom forming a bearing surface transverse to the bolster and provided with side and end walls or barriers, said bearing surface being inclined upwardly at its ends and level intermediate its ends, and a pair of free rolls in said housing and resting on said bearing surface and normally arranged to rest upon the level intermediate portion of the bearing surface.

1,427,175. VENTILATING SKYLIGHT. JOSEPH SYLVAN, Cicero, Ill. Filed Dec. 17, 1921. Serial No. 523,019. 15 Claims. (Cl. 108—16.)



4. A ventilating skylight comprising in combination with a frame structure, including frame bars, upper and lower panel sections on said frame structure, means providing a hinged connection between the bottom margin of said lower panel section and said frame structure about which said lower panel section may be swung, an operating device mounted on and capable of being moved along one of said frame bars, and means connecting said operating device with the inner margin of said lower panel section.

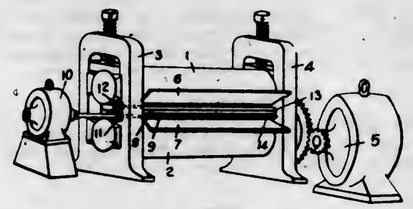
1,427,176. STEAM GENERATOR. JOHN TAYLOR, Pocatello, Idaho. Filed Mar. 20, 1920. Serial No. 367,384. 6 Claims. (Cl. 110—28.)



1. The combination with a furnace and boiler of a fuel feeding means operated by boiler pressure and means operable upon increase of boiler pressure beyond a predetermined point to admit boiler pressure to the exhaust line of the pressure operated fuel feeding means to retard the same.

5. In a device of the character described the combination of a circular fine fuel burning combustion chamber and water spaces some of which constitute a water jacket for said combustion chamber, a second combustion chamber lying at one side of the first named combustion chamber, and provided with grates for coal or wood, and a cinder trap in the rear of the first named combustion chamber and communicating with the last named combustion chamber there being a port formed in the rear wall of the first named combustion chamber and communicating with said cinder trap.

1,427,177. MACHINE FOR SEPARATING STICKERS ON THE OPENING FLOORS OF TIN MILLS. JOSEPH CARL TIMBERLAKE, Wheeling, W. Va. Filed Jan. 24, 1921. Serial No. 439,640. 5 Claims. (Cl. 29—17.)



5. A sheet separating apparatus comprising frame members, pulling rollers extending between said frame members and supported thereby, said rolls being spaced apart to afford a passage between them, revolving shafts extending between said frame member at one side of said rolls and approximately opposite said passage, beaters carried by said shafts for interposition between partially separated sheets of a pack to complete the separation of the sheets as they are drawn between the rolls, and guides, between which the beaters are positioned, extending between said frame members and supported thereby.

1,427,178. PROPELLER. WALLACE RUPERT TURNBULL, Rothesay, New Brunswick, Canada. Filed Mar. 13, 1919. Serial No. 282,255. 7 Claims. (Cl. 170—163.)

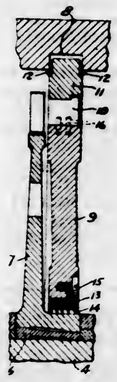
1. A propeller comprising a hub, tapered spindles carried by the hub, the said spindles being in radial align-

ment, blades rotatably mounted on the spindle and having radial recesses in which the spindles are mounted, means on the outer ends of the spindles for preventing endwise



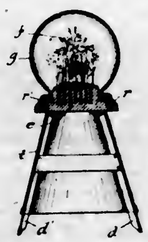
displacement of the blades, anti-friction means between the blade and the last said means for reducing friction, an arcuate rack, and means coacting with the rack for rotating the blades to alter the pitch of the propeller.

1,427,179. DIAPHRAGM FOR STEAM TURBINES. CARL R. WALLER, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a Corporation of New Jersey. Filed Jan. 3, 1921, Serial No. 434,416. Renewed July 3, 1922. Serial No. 572,679. 5 Claims. (Cl. 253—78.)



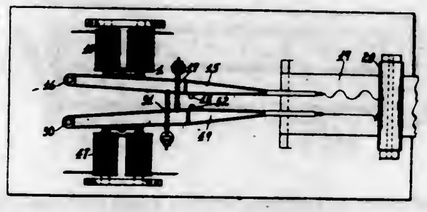
1. A turbine having a casing with a groove for a diaphragm, a diaphragm having an annular seat on each side thereof, and a non-corrodible metallic liner mounted on each seat, each liner engaging one of said seats.

1,427,180. PERPETUAL-FLOWER URN. ISAAC T. WELCH, Council Bluffs, Iowa. Filed Dec. 16, 1921. Serial No. 522,961. 3 Claims. (Cl. 47—18.)



1. In a memorial urn; a transparent, truncated globe; a flange on said globe; a parted, flanged ring encircling the neck of said globe over the flange of said globe; a base engaging said ring against the flange of said globe; and artificial flowers or other decorative work attached to said base and extending into the said truncated globe.

1,427,181. SOUNDING APPARATUS. LESTER L. WESTLING, Alameda, Calif. Filed July 19, 1920. Serial No. 397,460. 2 Claims. (Cl. 181—0.5.)

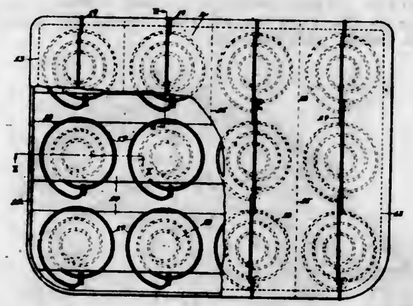


1. A sounding apparatus including a vibrating body whose period of vibration is known, means for transmitting sound through a sound medium, through which medium the speed of sound is known, means for recording the vibrations of said vibrating body, and means for recording the sound of said sound transmitter and the echo of said sound through said medium from a reflecting surface.

1,427,182. PHARMACEUTICAL COMPOUND. HERMANN WEYLAND, HANS HAHL, and RUDOLF BERENDES, Elberfeld, Germany, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Filed Aug. 8, 1921. Serial No. 490,698. 1 Claim. (Cl. 167—9.)

The herein-described new pharmaceutical compound being a condensation product obtained from toluene, sulfur and aluminium chlorid; being a yellowish oil boiling at from 150 to 230° C. under a pressure of 3 mm. containing from 23 to 25 per cent sulfur; and being a valuable remedy against scabies, substantially as described.

1,427,183. SPRING SEAT. ABE WILK, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 13, 1918. Serial No. 228,351. 12 Claims. (Cl. 155—25.)

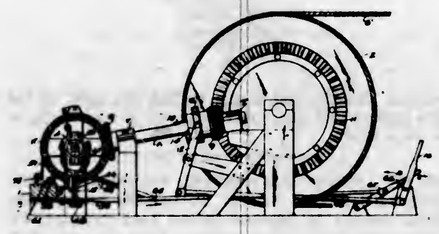


1. In a device of the class described, the combination of springs and a fabric covering for said springs, strips of fabric stitched at intervals to said first fabric forming receptacles, closed at their two ends and opened at their sides to receive the end coils of the springs, said coils being inserted through the open sides of the receptacles when the covering is assembled on the springs.

1,427,184. CLUTCH AND BRAKE CONTROL MECHANISM. JACOB E. WINTERS, Taft, Calif. Filed Apr. 20, 1920. Serial No. 375,353. 2 Claims. (Cl. 192—17.)

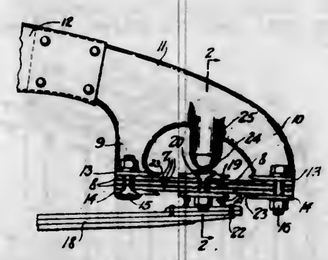
1. A brake and clutch mechanism comprising a shaft, a driving gear loosely mounted on said shaft, a second

shaft having mounted on one end a pinion gear engaging the driving gear and on the other end a slidably mounted pinion gear adapted to engage and disengage a master gear fastened to a band wheel and rotatably supported by a shaft, a drum fixed on the first mentioned shaft, and clutch friction bands, each extending contiguous with either half of the periphery of said drum and covering part of the width of the drum, one end of each band being connected to either portion of a U-shaped member and the other end of each band being connected similarly to a second diametrically opposed U-shaped



member, said U-shaped members having a shank rotatably journaled in the driving gear, a collar slidably mounted on the first mentioned shaft and having means for rotating said shank, said collar having an actuating lever, a brake friction band extending contiguous with the periphery of the remaining portion of the drum, one end of the brake band being anchored to a fixed element and the other end being fixed to a rocker arm fastened to said element, and the slidably mounted pinion gear having actuating means for engaging and disengaging said master gear.

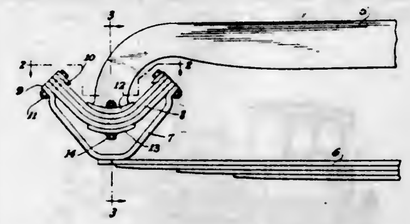
1,427,185. SPRING SUSPENSION. HARVEY W. BELL, Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del., a Corporation of Delaware. Filed July 10, 1920. Serial No. 395,266. 12 Claims. (Cl. 267—54.)



1. The combination with the supporting members of a vehicle body, of a coupling between said two members and comprising a flexible link rigidly secured and fixedly held at its opposite ends to one of said members and a connection between the other member and the intermediate portion of the flexible link between the rigidly held ends thereof.

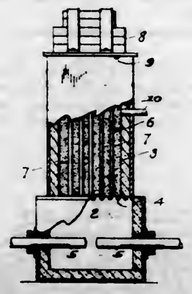
1,427,186. SPRING CONNECTION. HARVEY W. BELL, Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del., a Corporation of Delaware. Filed Feb. 4, 1921. Serial No. 442,437. 8 Claims. (Cl. 267—52.)

1. The combination with two relatively movable parts of a vehicle, of a yoke secured at its intermediate portion to one of said members, a bowed flexible link rigidly secured at its opposite ends to the arms of the yoke and



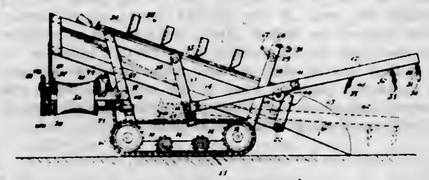
means for rigidly securing the other member to the body of said bowed link.

1,427,187. PROCESS OF REDUCING TUNGSTIC OXIDE TO TUNGSTEN METAL. WARREN F. BLEECKER, Boulder, Colo., assignor to The Tungsten Products Company, Boulder, Colo., a Corporation of Colorado. Filed July 8, 1920. Serial No. 394,630. 3 Claims. (Cl. 75—17.)



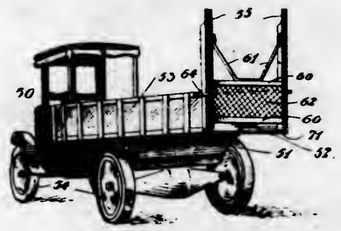
1. The herein described method of reducing tungstic oxides to metallic tungsten consisting in applying heat interiorly of a mass of tungstic oxides in the presence of a suitable reducing agent, said mass having artificially produced voids or passages for the circulation of gases.

1,427,188. STREET-CLEANING APPARATUS. HERBERT A. BOLDT, Buffalo, N. Y. Filed July 10, 1920. Serial No. 395,188. 5 Claims. (Cl. 198—10.)



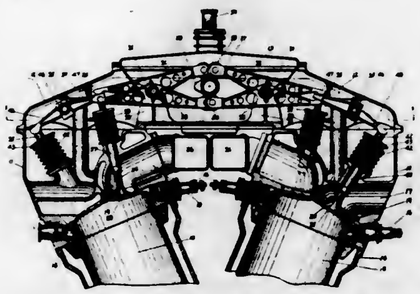
1. A street cleaning apparatus comprising a frame, an endless belt elevator, a scoop pivoted to said frame in front of said elevator, a crank journaled on said frame, a vertically oscillating lever pivoted centrally to said crank, a link pivoted at opposite ends to the rear end of said oscillating lever and to the said frame, and a shovel plate connected to the front end of said oscillating lever and positioned at all times in substantially the same angular position.

1,427,189. LOADING AND UNLOADING APPARATUS FOR TRUCKS. VICTOR L. J. BOURGEOIS, Montreal, Quebec, Canada, assignor of one half to Nazaire Dubois, Montreal, Quebec, Canada. Filed Dec. 4, 1920. Serial No. 428,352. 35 Claims. (Cl. 214—85.)



1. The combination with a truck, including channeled members at the rear portion thereof, of a frame hinged to the rear of said truck, and foldable from operative to inoperative position within said channeled members attached to the truck, latches for locking the frame within the said channeled members, and a strip attached to one of the foldable portions of the frame, forming an end gate for said truck.

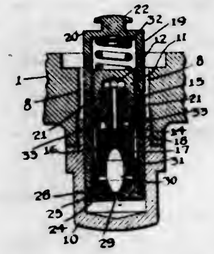
1,427,190. LUBRICATING SYSTEM. GARNET C. BROWN, Dayton, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 27, 1919. Serial No. 279,574. 5 Claims. (Cl. 184—6.)



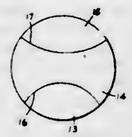
4. In a lubricating system for engines, a plurality of substantially parallel hollow shafts, a conduit extending across one end of the engine and having ports located adjacent the ends of the parallel shafts, ports formed in the ends of the hollow shafts and adapted to register with the ports in the conduit for admitting lubricant to the hollow shafts, said conduit being positioned above the horizontal plane of some of the safts and below the horizontal plane of the other shafts, and an oil supply pipe communicating with the conduit.

1,427,191. PRESSURE REGULATOR. WORTHY C. BUCKNAM, Jersey City, N. J., assignor, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 5, 1919. Serial No. 342,633. 7 Claims. (Cl. 50—23.)

1. A pressure-regulator having a body, a diaphragm, an inlet nozzle projecting away from the diaphragm, and a movable seat cooperative with the nozzle, a bridge in the body on the middle of which the nozzle is supported, and a stirrup comprising a bifurcated body having interrupted screwthreads on the ends of its limbs, a detachable end member having screw-threads to engage said interrupted threads, and means to lock the ends of the limbs against springing away from the screw-threads on the end member.

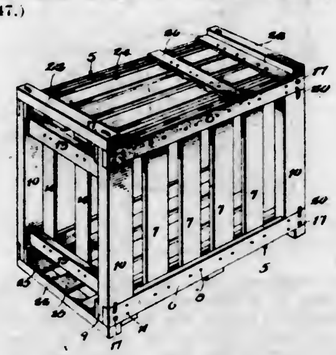


1,427,192. TRIFOCAL LENS AND PROCESS OF MAKING THE SAME. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind., a Corporation. Filed Oct. 24, 1921. Serial No. 509,069. 10 Claims. (Cl. 88—54.)



1. A trifocal lens formed of a single piece of glass having a near vision portion, a distance portion, and a near-distance portion intermediate said near vision and distance portions, with the lines of joinder of said portions being curved in directions opposite to each other, substantially as set forth.

1,427,193. CRATE. JESSE COBB, Laredo, Tex. Filed July 27, 1921. Serial No. 487,840. 5 Claims. (Cl. 217—47.)



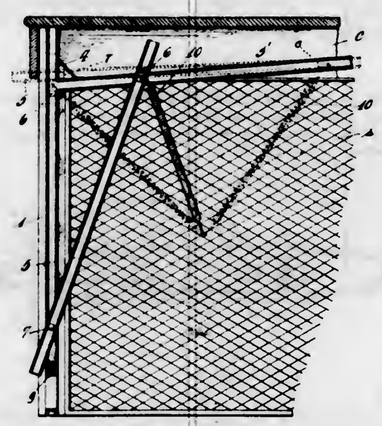
1. A crate having side walls, end walls arranged between and inwardly of the ends of the side walls, U-shaped pivot pins having branches extending through said end walls and having connecting portions extending through the end portions of the side walls, said pivot pins also being provided with branches flatly engaging the outer sides of the side walls, and cross beams arranged at the ends of said side walls and projecting beyond the longitudinal edges of the same to form rests.

1,427,194. NUT LOCK. ROBERT L. COCHRANE, Chicago, Ill., assignor to National Lock Washer Company, Newark, N. J., a Corporation of New Jersey. Continuation of application Serial No. 464,076, filed Apr. 26, 1921. This application filed Nov. 29, 1921. Serial No. 518,627. 3 Claims. (Cl. 151—36.)



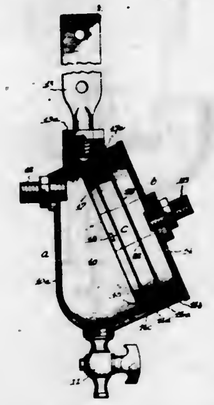
1. A spring lock washer having in plan the shape of a split ring, the ends of the washer being deflected in opposite directions with the body portion intermediate such ends formed into a series of interconnected synergetic curves, the crests of said curves and one end of the body being in one plane on one side of the medial horizontal plane of the washer and the crests of the curves and the end of the washer on the opposite side of said medial plane being likewise in one plane, the planes being all parallel.

1,427,195. GATE FOR COVERED VEHICLES. ALVIN DAVID DALY, Tucson, Ariz. Filed Jan. 7, 1922. Serial No. 527,698. 1 Claim. (Cl. 296—45.)



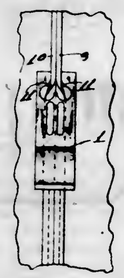
The combination with a vehicle body cover having a way therein, posts upon the opposite sides of said way, a gate for said way, of vertical channeled strips secured to the inner sides of said posts, substantially horizontally extending channeled strips formed integral with and communicating with the upper portions of said vertical strips, said vertical strips each having an opening therein at points slightly above the connection to the horizontal strips, oppositely disposed pivot pins arranged on the upper and lower ends of the several sides of said gate and adapted to be received in the channels of said vertical and longitudinal strips, rubber stops closing the lower ends of the channels of said vertical strips and adapted to retain said gate in a vertical position within the vehicle body cover way, the pivot pins upon the lower end of said gate being adapted to be inserted within the openings in the vertical strips and rest upon the upper walls of the horizontal strips for retaining the gate in its open position, a coil spring connected to said gate and adapted to apply pressure thereto when the gate is in its open or closed position, substantially as and for the purpose specified.

1,427,196. MEANS FOR FILTERING GASOLINE. HUGH A. DEEKS, Moose Jaw, Saskatchewan, Canada. Filed Jan. 31, 1920. Serial No. 355,492. 7 Claims. (Cl. 210—165.)



1. In means for filtering gasoline, a casing having an end-wall adapted to extend in an approximately vertical plane and having its opposite end open with the plane of the open end inclined to such end wall, and with the direction of increase in distance between such planes extending toward the bottom of the casing, and a removable unit mounted within and closing such open end, said end wall and said unit respectively carrying the inlet and outlet for gasoline, said unit carrying successive filter media between such inlet and outlet with the several media extending in spaced-apart planes substantially parallel to the plane of the casing open end.

1,427,197. SEAM-GUIDING PRESSER FOOT. GEORGE F. EGAN, Chicago, Ill. Filed June 14, 1920. Serial No. 388,775. 3 Claims. (Cl. 112—235.)



1. A seam guiding presser foot comprising a member having needle slots, a guideway, the walls of which are bevelled at their upper inner ends, apertures having a portion of their lower walls bevelled communicating with said guideway and a flap spreading nose in the center line of the guideway.

1,427,198. SOUND BOX. ELMER FLETCHER, Chicago, Ill., assignor, by direct and mesne assignments, to Fletcher-Wickes Company, a Corporation of Illinois. Filed Nov. 2, 1917. Serial No. 199,807. 3 Claims. (Cl. 274—27.)

1. In a sound box, the combination of a case having a fixed back-wall provided with a centrally disposed outlet

connection, a diaphragm in the box, operating means for the diaphragm, and an intermediate wall integral with the case and spaced from the diaphragm and the back-wall, having its central portion imperforate and a series

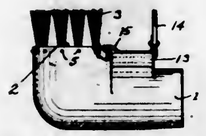


of openings adjacent its periphery disposed in entirety outwardly of the outlet connection to prevent direct passage of any sound from the diaphragm into the outlet connection, the diaphragm being insertable and removable through the front of the case.

1,427,199. LOTION. ISAAC O. FOOTE, Sidney, Iowa. Filed July 14, 1919. Serial No. 310,563. Renewed Jan. 28, 1922. Serial No. 532,501. 1 Claim. (Cl. 167—9.)

A composition of matter comprising substantially equal parts of water, witch hazel extract and a mixture of equal parts of alcohol and spirits of camphor, together with smaller proportions of resorcin, Epsom salts, salt petre and carbolic acid.

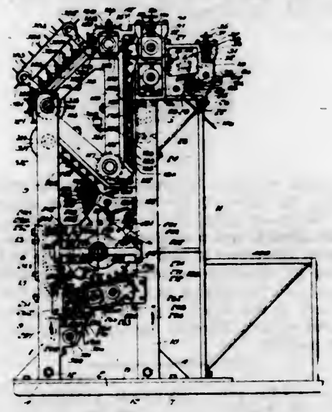
1,427,200. VACUUM-CLEANER NOZZLE. AUGUST C. FRANK, Hayward, Calif. Filed Sept. 29, 1920. Serial No. 413,503. 1 Claim. (Cl. 15—155.)



A vacuum cleaner nozzle comprising a tube having an opening on one side, a series of brushes partially around the side opening, a channel member secured to the nozzle for holding each bunch of bristles and a spring for holding the bristles in the channel members.

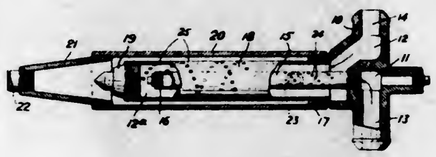
1,427,201. DECORTICATING-MACHINE. HERBERT F. FREULER and CHARLES L. MORRILL, Berkeley, Calif., assignors to Interstate Fibre Company, Ltd., Honolulu, Territory of Hawaii, a Corporation of the Territory of Hawaii. Filed June 4, 1919. Serial No. 301,626. 44 Claims. (Cl. 19—20.)

20. The combination with a machine for removing the cuticle and cutis from fibrous stock, including a pair of feed rollers, of an attachment for said machine comprising a pair of feed rollers arranged in advance of the first mentioned feed rollers, pulp-stripping means interposed



between said first and second feed rollers and over which the stock is drawn, means for splitting the pulp after being stripped from said stock.

1,427,202. LIQUID-FUEL BURNER. RADCLYFFE FURNESS, Jenkintown, and MARTIN G. BITTEL, North Glenside, Pa. Filed Dec. 9, 1920. Serial No. 429,359. 6 Claims. (Cl. 158—73.)

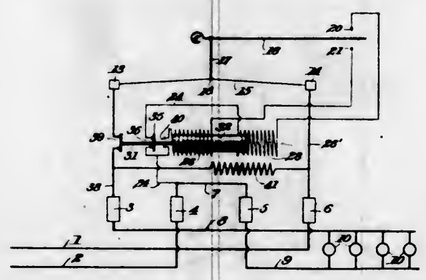


1. A fuel burner having an annular liquid chamber, means for delivering liquid fuel under pressure thereto, a fluid supply within the liquid chamber for injecting fluid under pressure into the liquid fuel stream within the liquid chamber to foam the liquid, an annular mixing chamber surrounding the liquid fuel chamber and concentric therewith, means for supplying under pressure an atomizing fluid to the mixing chamber, and means for causing jets of foam to be directed into the mixing chamber into the path of the fluid moving therethrough.

1,427,203. CURRENT-LIMITING DEVICE. BENJAMIN E. GETCHELL, Greensburg, Pa., assignor to Railway and Industrial Engineering Company, Greensburg, Pa., a Corporation of Pennsylvania. Filed Aug. 25, 1917. Serial No. 188,256. 2 Claims. (Cl. 177—347.)

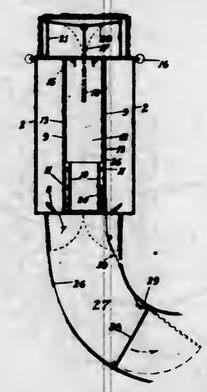
1. In a current-limiting device, the combination with a main circuit, of a thermal elements responsive to current flowing in said circuit, said element consisting of a "hot wire" fixed at its ends, a switch member to which the middle of the hot wire is mechanically and electrically connected, a pair of contacts arranged to be engaged by said switch member, means in the main circuit including a switch for increasing the resistance of the circuit and

auxiliary circuits connected with said contacts and including each said switch member and a portion of said hot wire, one of said auxiliary circuits including means



for opening the said main circuit switch and the other auxiliary circuit including means for closing the said main circuit switch.

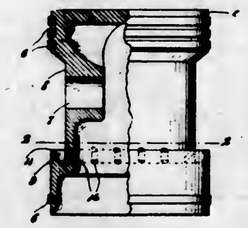
1,427,204. FLYTRAP FOR USE WITH LIVE STOCK. JOHN W. GIBBONS, Merced Falls, Calif., assignor of one-half to Timothy Carlon, La Grange, Calif. Filed Nov. 5, 1920. Serial No. 421,857. 4 Claims. (Cl. 119—156.)



1. A fly trap for live stock comprising a shed through which the stock passes, a fly-trapping enclosure on top of the shed arranged to receive the flies from the shed therein, doors at the entrance end of the shed normally open to allow the stock to pass into the shed, a platform in the shed onto which the animal steps and arranged to move automatically from the entrance to the exit end of the shed with the weight of the animal thereon, and means actuated by the movement of the platform for automatically closing said doors.

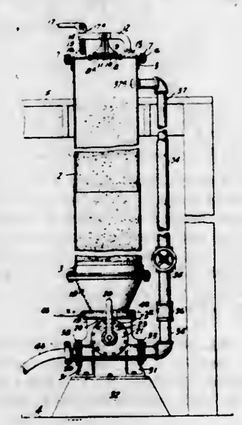
1,427,205. PISTON. HUGO B. GRANT, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 414,564. 5 Claims. (Cl. 74—108.)

1. A piston of the type described comprising a hollow body provided with wrist-pin bearings, and having in its outer surface an annular depression completely encircling the same circumferentially, and located in the plane of the wrist-pin bearings, an encircling oil-retaining groove at



the bottom of the depression opening thereinto, and means for maintaining a constant oil level in the groove.

1,427,206. SAND-BLAST APPARATUS. JOHN E. GREEN, Johnstown, Pa. Filed Oct. 9, 1916. Serial No. 124,648. 4 Claims. (Cl. 51—12.)

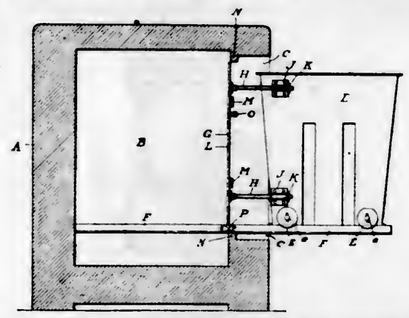


4. A sand blast apparatus comprising in combination, a sand hopper having an outlet, a valve body having a chamber into which said outlet discharges, a sliding gate for shutting off the hopper outlet from said chamber, said valve body having a hollow interior, means connecting the interior of said valve body and said hopper with a source of fluid pressure, a discharge conduit in communication with the interior of said valve body, a rotatable valve mounted in said valve body for controlling the flow of sand from said chamber, and means for rotating said valve to discharge accumulations of sand within said valve body.

1,427,207. REFRIGERATOR. GUSTAV J. GRUENDLER, Clayton, Mo. Filed Nov. 9, 1921. Serial No. 514,005. 7 Claims. (Cl. 62—66.)

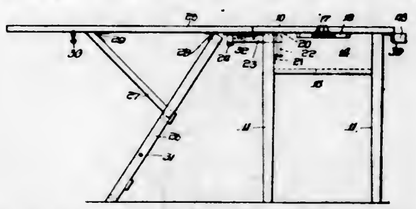
1. In a refrigerator having an ice chamber therein with an opening in the wall thereof, an ice container adapted to be moved into or out of said chamber through said opening, a shield adapted to be carried by said container, means slidably mounted on said container for carrying said shield whereby the distance separating said shield

and said container may be increased or decreased, and said shield arranged to engage the sides of said opening



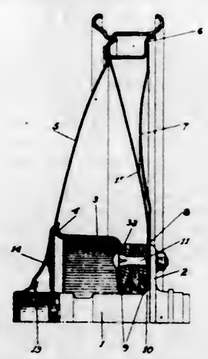
whereby said opening is closed when said container is moved out of said chamber.

1,427,208. COMBINATION TABLE. JOHN L. HAPPY, Chicago, Ill. Filed Oct. 30, 1918. Serial No. 260,245. 4 Claims. (Cl. 68—10.)



2. In a device of the class described, the combination of a table, an ironing board, a pivot secured to said table under its top for supporting said board, a leg for supporting the outer end of said board, whereby said board may be swung under the top of said table when not in use or to extend from said table when in use as desired, and a bracket mounted at one end on said pivot and pivotally connected at its other end to said board.

1,427,209. DISK-WHEEL CONSTRUCTION. GEORGE E. HARVEY, Buffalo, N. Y., assignor to Harvey Rim & Wheel Company, Buffalo, N. Y. Filed Oct. 3, 1921. Serial No. 505,039. 4 Claims. (Cl. 301—63.)



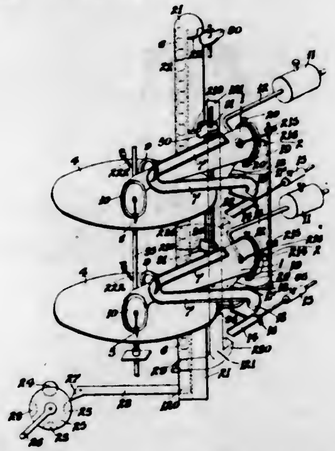
1. A disk wheel structure including inner and outer disks, a shell adapted to fit over a hub, the outer disk being fixed to the rim-edge of the shell but the inner disk being spaced inwardly of the shell, and filler members between the shell and inner disk.

1,427,210. APPARATUS FOR AGITATING FLUID MASSES. BENTON A. HOOK, Escondido, Calif. Filed Mar. 29, 1920. Serial No. 369,649. 1 Claim. (Cl. 259—18.)



In a cooking apparatus, a kettle, a steam pipe extending into the kettle, a conical tube with its larger end contiguous to the outlet of said pipe, a spider connecting the tube and the pipe to permit ready inflow of the substance in the kettle into the tube when steam is discharged from the pipe, and an elbow attached to the end of the tube for directing the discharge.

1,427,211. GRAMOPHONE AND LIKE SOUND-REPRODUCING INSTRUMENT. JOHN JOFEH, London, England. Filed Jan. 5, 1922. Serial No. 527,262. 10 Claims. (Cl. 274—10.)

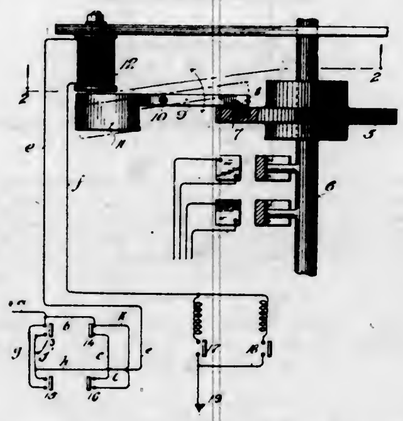


2. A sound reproducing instrument having means for lowering the stylus on to its records comprising a ball adapted to roll down a pivoted inclined guide-way fixed on the pivoted tone arm, the guide-way being arranged in such a manner that the ball can roll down it from the delivery to the discharging end, and provided with a stop arranged to arrest the ball at a position where its weight will lower the stylus into operative engagement with the record, mechanism being provided for releasing the stop when the sound box arrives at a predetermined position.

1,427,212. DOOR-CONTROLLED LOCKING MECHANISM FOR VEHICLES. ERNEST KELLER, Woodhaven, N. Y., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed June 13, 1919. Serial No. 304,031. 8 Claims. (Cl. 180—82.)

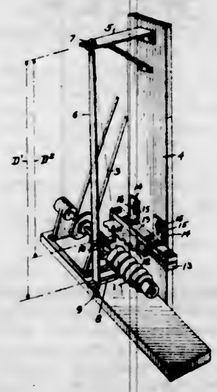
1. In a locking mechanism for vehicles, a controller for the propelling power thereof, a lock for said controller

operating when in action to lock said controller in off position, electrical devices for controlling said lock, and switches controlled by the doors on the vehicle, said



switches being arranged in parallel and associated in the circuit of said electrical devices for independently operating the same.

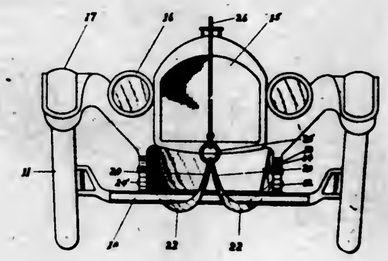
1,427,213. LATHE. JOHN S. LAPP, Le Roy, N. Y., assignor to Lapp Insulator Company, Le Roy, N. Y., a Corporation of New York. Filed Sept. 15, 1919. Serial No. 323,809. 5 Claims. (Cl. 142—7.)



1. The combination with a rotatable work spindle, of a tool holder supported at one end by a universal joint, a cutting tool carried by said holder, a templet and means carried by said holder between said joint and said tool for co-operating with said templet in controlling the movement of said tool.

1,427,214. VEHICLE-LIFTING MEANS. ARTHUR D. LIGHTNER and EDWARD HOLMES, Toledo, Ohio, assignors to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed May 13, 1918. Serial No. 234,197. 12 Claims. (Cl. 294—82.)

1. A device for lifting automobiles, comprising two members converging at one end to a point and the other end of each member extending under the front axle and engaging the lower edge thereof; hooks on the last

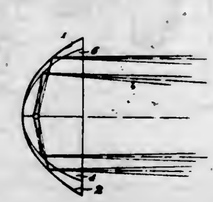


mentioned ends of said members adapted for hooking over the springs of said automobile; and detachable means for connecting the converging ends together.

1,427,215. PROCESS OF MANUFACTURE OF DIALKYLSULPHATES. LEON LILIENFELD, Vienna, Austria. Filed Jan. 10, 1921. Serial No. 436,381. 5 Claims. (Cl. 260—98.)

1. A process of producing dialkyl sulfate by means of sulfuric anhydrid which comprises causing sulfuric anhydrid to act upon aliphatic alcohols in the presence of a substance which is active as a dehydrating agent in such mixture, but which will not cause the decomposition of dialkyl sulphate.

1,427,216. REFLECTOR FOR AUTOMOBILE HEADLAMPS. WILLIAM F. LITTLE, Nepperhan Heights, N. Y. Filed Feb. 25, 1922. Serial No. 539,171. 4 Claims. (Cl. 240—41.)

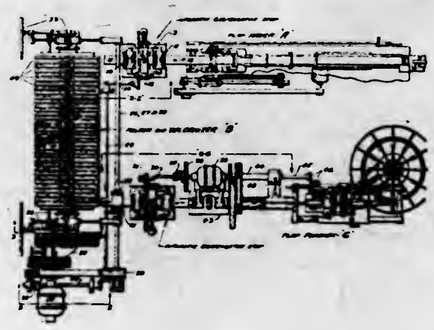


1. A reflector for automobile head lamps comprising hyperbolic sections, one of said sections projecting a central beam of high candle-power, and two of said sections projecting oblique bands of light of less illumination, said bands overlapping each other, merging with a central beam and extending obliquely downward and outward to illuminate the sides of the road, substantially as set forth.

1,427,217. MOLDING MACHINE. ROBERT MCCLENATHEN, Akron, Ohio, assignor to Kelly-Springfield Tire Company, Akron, Ohio, a Corporation of New Jersey. Filed Jan. 31, 1922. Serial No. 533,087. 17 Claims. (Cl. 18—6.)

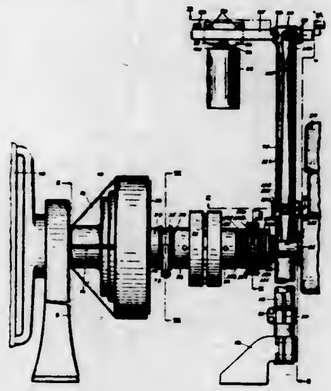
1. A molding and vulcanizing machine of the character

described, comprising revolubly associated vulcaniser drums having alined grooves, endless pressure members



conformable to and coacting with said grooves, and means for exerting selective tension on the pressure members.

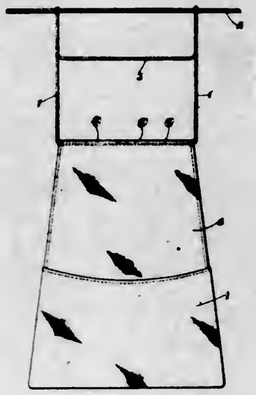
1,427,218. ENGINE-TESTING APPARATUS. WILLIAM R. MCCULLA, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 4, 1918. Serial No. 215,415. 43 Claims. (Cl. 265—1.)



5. In an apparatus for testing mechanisms including a shaft, a power testing apparatus, driving connections between said shaft and said apparatus, a member mounted on said shaft and having opposing abutments, a pair of annular bearings mounted on said member between said abutments, a thrust ring interposed between said annular bearings, and means for applying a predetermined thrust to said thrust ring.

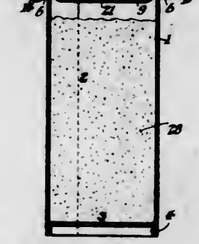
1,427,219. CLOTHESPIN BAG. MARY A. MABON, St. Louis, Mo. Filed Feb. 7, 1921. Serial No. 443,032. 3 Claims. (Cl. 150—1.)

1. A device of the character described, comprising a section of wire bent to form a supporting frame having its upper and lower ends relatively rigid, and including a horizontal bag suspending part at its lower end; and a bag swinging from said suspending part composed of a rear wall in connection with said suspending part extending to the bottom of the bag, and a front wall having its side and bottom edges secured to the side and bottom edges of the rear wall and having its upper end normally spaced from the rear wall by gravity alone



when the device is suspended, and the walls of the bag being freely foldable in any direction throughout their length and width.

1,427,220. MUNITION CASING. VICTOR MAUCK, Norristown, Pa. Filed Feb. 28, 1918. Serial No. 219,674. 2 Claims. (Cl. 220—57.)

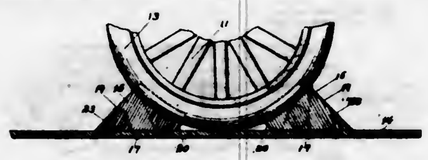


1. In a munition casing, the combination with a tubular shell; of a closure for said shell including a lid, a rigid yoke having arms overhanging said lid, with hooks at their outer ends, one of said arms having a slot extending through it, and its hook pivotally engaged in said slot; all of said hooks being adapted to directly detachably engage said shell.

1,427,221. TANNING HIDES AND SKINS. ERNEST WYNDHAM MURRAY, Sheffield, England, assignor, by mesne assignments, to Pyrotan Leather Corporation, Wilmington, Del., a Corporation of Delaware. Filed Feb. 11, 1919, Serial No. 276,339. Renewed May 16, 1922. Serial No. 561,418. 3 Claims. (Cl. 149—5.)

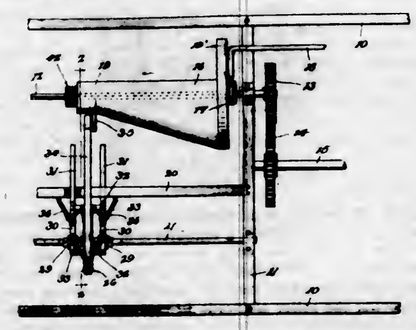
3. A method of tanning hides and skins which comprises alternately subjecting the hides to agitation in contact with a solution including a soluble aluminum salt and a soluble pyrophosphate, and retaining them in a quiescent condition while still in contact with the solution until the temperature is reduced, and thereby preventing the temperature from exceeding 107° Fahrenheit.

1,427,222. WHEEL BLOCK. JOHN C. MILLER, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed July 22, 1918. Serial No. 246,225. 2 Claims. (Cl. 188—32.)



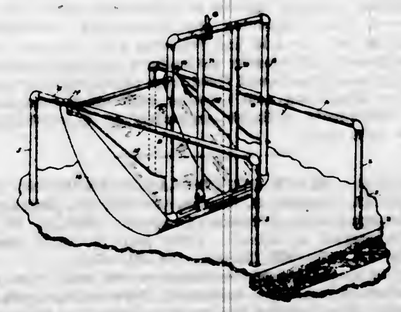
1. A wooden block for blocking a vehicle wheel, said block having a plane surface forming a base for said block, an end face making an acute angle with said base whereby the block may be readily nailed to a flooring, and a third face shaped to conform to and adapted to engage the outer surface of a vehicle tire.

1,427,223. TRANSMISSION. OLIN P. MILLER, Woodland, Ga. Filed Jan. 12, 1922. Serial No. 528,745. 5 Claims. (Cl. 74—14.)



1. In a transmission, a drive shaft, a driven shaft, a ratchet mechanism associated with the driven shaft, a longitudinally tapered driving cam fitted slidably upon the driving shaft and constrained to rotate therewith, said cam being provided at its ends with portions concentric to the driving shaft, and a reciprocatory bar having one end bearing constantly upon the circumferential surface of the cam and at its opposite end co-operating with the ratchet mechanism.

1,427,224. STALL. EDWARD HOPKINS MOFFATT and WILLIAM HENRY MOFFATT, Toronto, Ontario, Canada. Filed Oct. 24, 1921. Serial No. 510,041. 2 Claims. (Cl. 119—27.)



1. A stall comprising side members, a stanchion pivotally supported by said side members and adjustable in longitudinal relation thereto, and a manger secured at one end to the lower end of said stanchion and at its other being provided with lateral extensions slidable along said side members.

1,427,225. RETAINING CAGE FOR MULTIPLE-ROW BALL BEARINGS. FREDERICK E. MUELLER, Mount Vernon, N. Y., assignor to The Norma Company of America, Long Island City, N. Y., a Corporation of New York. Filed May 28, 1921. Serial No. 473,376. 6 Claims. (Cl. 64—59.)



6. A retaining cage for double row ball bearings comprising an annular cage body having spaced openings for the protrusion of the balls therethrough and provided with circumferentially continuous side flanges and an intermediate circumferentially continuous flange constituting a separator between the ball rows, each of said flanges being provided with spaced ball receiving depressions to yieldably hold the balls against relative circumferential movement while permitting of their free individual rotation and apertures in said flanges of less diameter than the ball receiving depressions and in concentric relation therewith.

1,427,226. MOLD AND METHOD OF TREATING SAME. HUBERT A. MYERS, Toledo, Ohio, assignor to The Hubert A. Myers Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 30, 1920. Serial No. 406,900. 9 Claims. (Cl. 22—189.)

4. The method of treating molds to prevent pitting of the mold and the casting, which consists in heating the mold and while hot rubbing zinciferous material over the face and into the pores of the casting surface of the mold, the mold being heated.

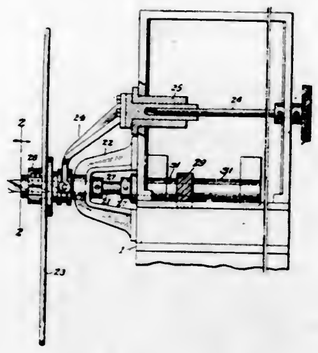
1,427,227. LIQUID-FUEL BURNER. DAVID J. NYSEWANDER, Toledo, Ohio. Filed Sept. 10, 1918. Serial No. 253,479. 1 Claim. (Cl. 158—58.)



In a liquid fuel heater, a member having an annular chamber and a solid core portion, the chamber being connected with the source of fuel supply, a burner so located below the member to cause the flame of the burner to impinge on the solid core portion and connected with the outlet of the chamber of the said member for heating the fuel supply to the said member, a plurality of burners connected at a point intermediate

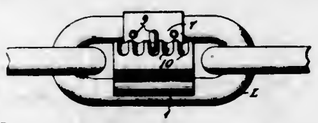
the first named burner and the said member, a short gas pipe closed at one end connected intermediate the first named burner and the chamber and intermediate the chamber and the last named burner and forming a closed chamber communicating with the pipe into connecting the first named burner and the said member with the last named burners.

1,427,228. SHUTTER MECHANISM FOR MOVING-PICTURE MACHINES. NICHOLAS POWER, Brooklyn, N. Y., assignor to Nicholas Power Company, New York, N. Y., a Corporation of Delaware. Filed June 6, 1916, Serial No. 102,071. Renewed Jan. 21, 1922. Serial No. 531,003. 4 Claims. (Cl. 88—19.3.)



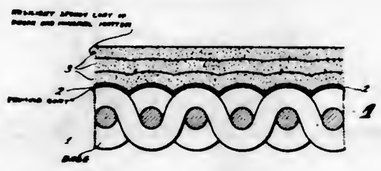
1. In a moving picture machine the combination of a casing, a shutter shaft supported therein and projecting beyond the front wall of said casing, a spiral cam on said shutter shaft, a shutter mounted thereon for rotation with the shaft and longitudinal movement thereon and means for effecting longitudinal movement of the shutter comprising a nut supported in said casing for axial movement in parallelism with said shutter, a connection between said nut and said shutter and a screw threaded in said nut projecting through said casing and beyond the rear wall thereof whereby the shutter may be adjusted by the rotation of the screw.

1,427,229. CONVEYER CLEAT. FRANK M. ROBBINS and JOSEPH SHERMAN HARTLEY, Chattanooga, Tenn., assignors to Ross-Meehan Foundries, Chattanooga, Tenn., a Corporation of Tennessee. Filed Jan. 30, 1922. Serial No. 532,746. 11 Claims. (Cl. 198—176.)



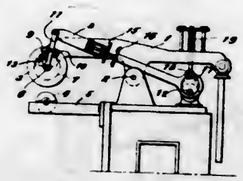
1. A conveyer cleat comprising a main section provided with a link receiving surface, a dovetail seat formed on said main section, a member for holding a link on said surface and provided with dovetail surfaces cooperating with said dovetail seat, and means for locking said member to said main section, said means comprising malleable lugs on one of said parts and cooperating recesses on the other of said parts.

1,427,230. INSULATING MATERIAL. FREDERICK SALATHE, Jr., Santa Barbara, Calif. Filed Aug. 9, 1919. Serial No. 316,504. 11 Claims. (Cl. 91—68.)



8. An insulating material, comprising a base, a coating carried by the base, said coating comprising a non-fibrous mineral and a resilient spongy binder, said mineral being greatly in excess of the binder.

1,427,231. ELECTRIC SEAM-WELDING MACHINE. EDMUND SCHRÖDER, Berlin, Germany. Filed Mar. 15, 1920. Serial No. 366,176. 10 Claims. (Cl. 219—6.)



1. In an electric seam welding machine, the combination of a roller electrode, a mandrel shaped electrode, and a circuit for the two, with means for moving the work piece with its overlapped seam edges through between these electrodes and along the mandrel electrode, means for moving the roller electrode in company with the work piece intermittently, means for a return movement of the roller electrode, means for pressing the latter against the seam of the work piece, and means for closing the said circuit on the return movement of the roller electrode, substantially as set forth.

1,427,232. COMPOSITION AND SUBSTANCE FOR USE IN CONCENTRATION OF ORES AND METHOD OF PRODUCING SAME. ALFRED SCHWARZ, Joplin, Mo., assignor to Metals Recovery Company, New York, N. Y., a Corporation of Maine. Filed Mar. 6, 1917, Serial No. 152,586. Renewed June 1, 1922. Serial No. 565,128. 3 Claims. (Cl. 252.)

1. The method of producing agents and compositions for use in the concentration of ores, which comprises disintegrating selective agents by extraction first with an aqueous alkali, removing any unextracted constituents, treating with an acid and removing any separated solid constituents, and thereby obtaining a solution containing soluble constituents and freed from constituents insoluble in the alkali and acid together with other components or constituents utilizable separately or in combination with each other.

1,427,233. SHAFT CUTTING AND CENTERING MACHINE. ALBERT H. SEGLER, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 18, 1919. Serial No. 311,757. 134 Claims. (Cl. 29—27.)

1. In a machine of the character set forth, the combination of means for supporting the work, a device for cutting off an end of the work, a device for forming a center-hole therein, means operating automatically for actuating said devices in succession to effect the cutting

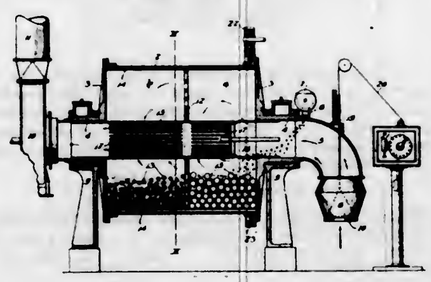
off of the end of the work and the forming of a center-hole therein and means operating automatically to discontinue the movement of said devices after each successive operation thereof.



50. In a machine of the character set forth, the combination of work-holding means constructed and arranged to support the work therein with the ends of the work accessible for operation thereon at the opposite ends of said work-holding means, and comprising a pair of members relatively movable toward and away from each other and having rotatable parts at which the work is engaged, means for rotating said rotatable parts in any position of the relative adjustment of said members, and means located at opposite ends of said work-holding means for operating on the ends of the work.

100. In combination, a reciprocable member, a second, threaded, rotatable member having threaded engagement with said first-named member, a third member arranged in alined condition with said second member and rotatable therewith, said members being relatively movable longitudinally, means controlled by the position of said third member operating when in one position to effect rotation of said second member in one direction and when in another position to effect rotation of the latter in the opposite direction, and means operated by said first-named member for effecting the shifting of said third member to effect reversal of said second member.

1,427,234. PULVERIZING MILL. DANIEL V. SHERBAN, Canton, Ohio. Filed Dec. 23, 1921. Serial No. 524,524. 5 Claims. (Cl. 83—9.)

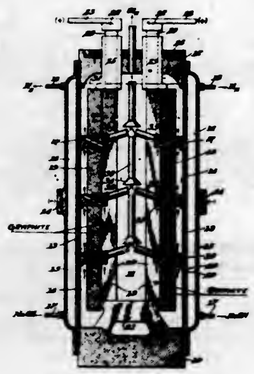


1. A grinding mill consisting of a rotatable drum provided with grinding balls and a central axially arranged suction screen having a continuous uninterrupted receiving cavity from one end to the other.

1,427,235. CONCENTRATION OF ORES. GUY E. SHERIDAN and GEORGE G. GRISWOLD, Jr., Butte, Mont. Filed Jan. 10, 1922. Serial No. 528,277. 6 Claims. (Cl. 83—85.)

1. The process of concentrating by flotation an ore containing sulfides of iron together with one or more other metallic sulfides which comprises treating the ore with a cyanide and an alkaline salt and subjecting the so treated ore to a flotation operation in which the flotation of the iron sulfide is in large part inhibited.

1,427,236. ELECTROLYTIC METHOD AND APPARATUS. JOSEPH J. SHERWOOD, St. Louis, Mo., assignor to Hooker Electrochemical Company, New York, N. Y., a Corporation of New York. Filed Mar. 20, 1920. Serial No. 367,568. 8 Claims. (Cl. 204—58.)



1. The hereindescribed electrolytic method comprising electrolysing a solution yielding a gaseous product, diverting the evolved gas from the active electrode face at a point or points intermediate the top and bottom thereof; and simultaneously supplying fresh electrolyte directly to the active electrode face intermediate the top and bottom thereof, whereby interference of the inflowing electrolyte with the diversion of the gas is avoided.

1,427,237. PROCESS OF SETTING TACKS IN PORCELAIN TEETH. IZUMI SHIKUSAWA, Chigusa Machi, Japan. Filed July 27, 1918. Serial No. 247,079. 2 Claims. (Cl. 32—9.)

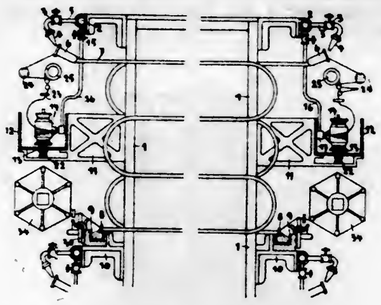


1. The process of making an artificial tooth provided with anchoring tacks projecting from its rear face, which consist in first molding the body of the tooth in a double mold with an inclosed core of material destroyable by the heat used in baking the tooth, to leave a transverse elongated slot in the back of the tooth having an intermediately located enlargement, a plurality of headed tacks in the slot introduced through the enlargement, and locating the headed ends of the tacks at opposite ends of the slot, and then anchoring the tacks in the tooth by material susceptible to solidification.

1,427,238. DEVICE FOR THROWING WASHING AND REELING SPOOLED ARTIFICIAL SILK. RUDOLF SINKWITZ, Copits, Germany, assignor to Wilhelm Kaufmann, Dresden-A, Saxony, Germany. Filed Jan. 30, 1922. Serial No. 532,830. 5 Claims. (Cl. 117—2.)

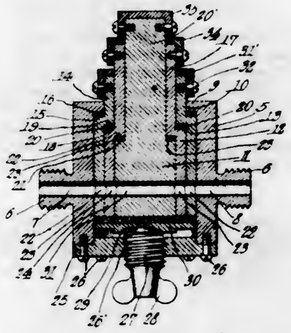
1. An improved device for throwing, washing and reeling spooled artificial silk comprising in combination a twisting spindle, a spool upon said spindle upon which the artificial thread is wound, a long washing conduit through which the thread is assisted, on being drawn therethrough, by the flow of the washing liquid, so as to

relieve tension on the thread, means for guiding the thread from the spool to the inlet orifice of said washing con-



duit, and a reel at the end of said washing conduit upon which the thread is wound.

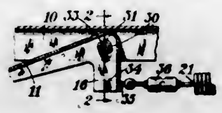
1,427,239. COMBINATION VALVE DEVICE. HARRY O. SPENCER, Cincinnati, Ohio. Filed Nov. 30, 1921. Serial No. 518,978. 2 Claims. (Cl. 251—6.)



1. A combination valve device comprising, a casing having inlet and outlet openings, said casing being provided at one end with an inwardly extending flange forming a main opening and a shoulder, a tubular valve rotatively mounted within the casing and having openings adapted to register with the inlet and outlet openings, said tubular valve being provided at one end with a reduced tubular extension extending through the main opening and forming a shoulder arranged beneath the first named shoulder, packing disposed between said shoulders, a valve rotatable within the tubular valve and having an opening adapted to register with the openings of the tubular valve, said valve having a reduced portion extending through the tubular extension of the tubular valve and having a shoulder arranged beneath the interior shoulder of the tubular valve, packing disposed between the last named shoulders, means for indicating a combination whereby the valves may be shifted to a position to bring all of the openings into registration, a follower plate arranged beneath said valves, a packing plate arranged between the follower plate and valves, and adjustable means to move the follower plate toward the valves.

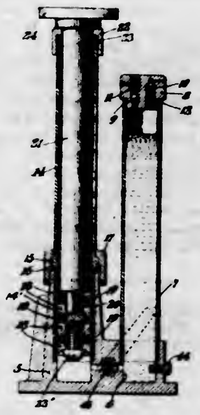
1,427,240. SPRING SUSPENSION OF VEHICLES. JOSEPH REGINALD MONTAGUE STANFIELD, Cardiff, Wales, assignor of one-half to John Fifield Adye, Brentwood, Dinas Powis, Wales. Filed Jan. 5, 1922. Serial No. 527,147. 4 Claims. (Cl. 280—104.)

1. A spring-suspension for vehicle frames comprising in combination a plurality of wheel-carrying levers mounted each to swing in a vertical plane and disposed lengthwise of the frame, a plurality of springs each having one end connected to the free end of one of said levers, and an anchorage comprising an equalizing member jour-



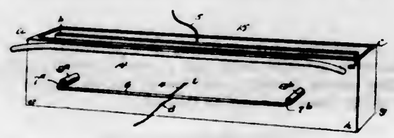
nalled in the frame and disposed transversely of the longitudinal direction of the frame between its ends, which equalizing member carries radial arms terminating one at each side of the frame and anchored to the free ends of the springs.

1,427,241. JACK. FREDERICK R. SUNDERMAN, Newburgh, N. Y., assignor to Sunderman Corporation, Newburgh, N. Y., a Corporation of New York. Filed Feb. 25, 1920. Serial No. 361,290. 4 Claims. (Cl. 138—9.)



1. A jack having in combination a base member, an oil reservoir, a jack cylinder seated on said base member and provided with a circumferential boss, a nut and lead packing for holding the cylinder tightly seated on said base and a pump for forcing oil from the reservoir to said cylinder through said base.

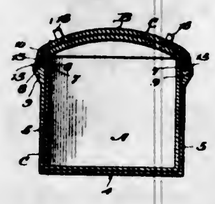
1,427,242. SAFETY DEVICE FOR MOTOR VEHICLES. MORRIS SWARTZMAN, Brooklyn, N. Y. Filed Sept. 28, 1921. Serial No. 503,819. 1 Claim. (Cl. 293—34.)



A device of the character described, comprising a four-walled frame with two holes in one rectangle or wall and two other holes similarly placed in the opposite rectangle or wall, a plate fitting into the frame said plate having holes corresponding to and placed similarly to the holes of the frame, two short rods held together by a long rod said short rods running through the holes of the frame and plate thereby supporting the plate, two hollow tubes enclosing and supporting said short rods, two curved metal strips on the frame covering up the protruding

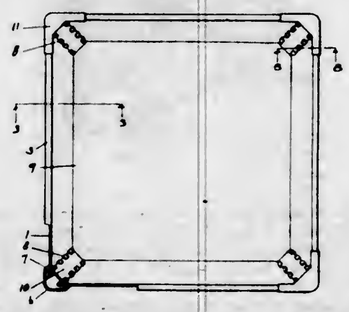
ends of said short rods, means for pulling the short rods out of the holes, means for allowing the short rods to spring back into the holes, and means for pulling up the plate from the ground to its normal position.

1,427,243. BURIAL VAULT. CLARANCE W. THOMPSON and WILLIAM J. QUIGLEY, Wilmington, Del., assignors to Riverview Cemetery Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 15, 1921. Serial No. 492,614. 2 Claims. (Cl. 72—7.)



1. A vault comprising a bottom, a wall substantially perpendicular thereto having a groove in its upper edge and having an outer surface declining outwardly immediately below said groove, an abutment on the outside of said wall below said groove, and a cover having a protuberance arranged to be received by said groove and a depending flange arranged to abut said abutment at its end and to abut said outer surface on its inner side, said inner side of the flange being at a greater distance from said outer surface in its lower than in its upper portion.

1,427,244. METAL RECEPTACLE. FRED W. TOBEY, Grand Rapids, Mich. Filed June 27, 1921. Serial No. 480,810. 8 Claims. (Cl. 220—80.)



1. In a receptacle, the combination of the side walls provided with inturned flanges at their lower edges and with outwardly projecting beads at their upper edges, said side walls having a series of slots adjacent their vertical edges, angled corner uprights having inturned flanges on their vertical edges provided with the tongues engaging the slots of said side walls, a bottom resting on the bottom flanges of said side walls, bottom and side wall locking strips disposed behind said tongues to retain the side walls thereon, the tongues being folded upon said strips, and channeled corner irons embracing the upper ends of said corner uprights and locking strips and clamped upon the beads of adjacent side walls.

1,427,245. NONREFILLABLE CONTAINER. AURELE VERMEULEN, Los Angeles, Calif. Filed Oct. 13, 1920. Serial No. 416,639. 4 Claims. (Cl. 215—7.)

1. A container formed with an enlargement surrounding the orifice portion thereof; there being means adapted to close the orifice of said container; a sealing device having a portion thereof embedded in said enlargement and pro-



jecting from the under surface of said enlargement and over the means adapted to close the orifice.

1,427,246. EXPANDED WOOD LATH. JOHN A. WALLER, Highland Park, Ill. Filed Nov. 22, 1919. Serial No. 340,031. 2 Claims. (Cl. 72—116.)



1. A wood lath consisting of a board having therein two series of parallel saw cuts, one series arranged angularly relative to the other series and joined at their proximate ends by a connective rib, said saw-cuts expanded to form strips of lath, and transverse spacers for holding said strips of lath spaced apart having integral grip portions engaged with portions of said board.

1,427,247. RACK. EDWARD B. WESTON, Dayton, Ohio, assignor to The Weston Paper and Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 17, 1920. Serial No. 352,089. 4 Claims. (Cl. 211—14.)

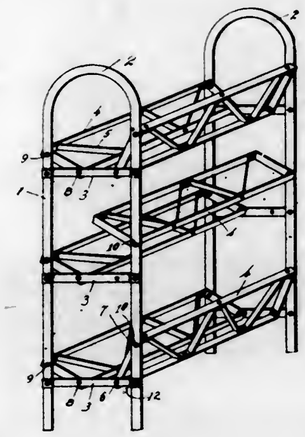


3. In a rack comprising single side standards and a single top cross bar, the combination with the top bar, of a shelf member for mounting on said bar, said shelf having ears depending therefrom, and interspaced to straddle said bar, and a bolt for removably mounting said shelf on said bar.

1,427,248. DISPLAY RACK. EDWARD B. WESTON, Dayton, Ohio. Filed Apr. 22, 1922. Serial No. 556,067. 3 Claims. (Cl. 211—14.)

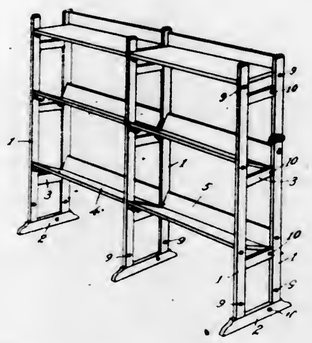
1. In a display rack, metallic end standards with horizontal cross braces to brace and strengthen the standards,

and a pair of similar rectangular metallic frames for each shelf section with similarly spaced bolt holes for each cross brace and similarly spaced bolt holes for the end standards, located above the points of attachment



of the cross braces, whereby the shelf members may be secured at a substantial angle to each other to hold the packages displayed in tilted position and all shelves may be interchanged.

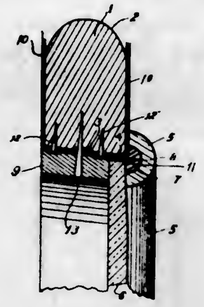
1,427,249. DISPLAY RACK. EDWARD B. WESTON, Dayton, Ohio. Filed Apr. 22, 1922. Serial No. 556,069. 6 Claims. (Cl. 211—14.)



1. In a display rack, the combination of side standards provided with bolt openings triangularly arranged, a series of shelves comprising a main supporting section and a back section, and means for securing same together in angular relation, with means for securing the main shelves in the standards in horizontal or angled position, as desired.

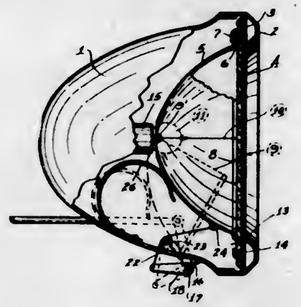
1,427,250. METAL-FACED AUTOMOBILE CURTAIN LIGHT. GEORGE WHOMES and FRANCIS H. WHOMES, Los Angeles, Calif. Filed Oct. 27, 1920. Serial No. 419,893. 5 Claims. (Cl. 296—145.)

2. In a curtain light, a finish ring having an annular concavity, a compressible gasket in said concavity, and a stay fixed to the ring and projecting from said concavity



for the purpose of attaching the ring to the frame for holding a pane.

1,427,251. LIGHT-PROJECTION REGULATING MEANS. ARTHUR CHARLES WOOD, Mansfield, Ohio, assignor, by mesne assignments, to The Mansfield Lamp and Manufacturing Company. Filed Jan. 7, 1921. Serial No. 435,719. 3 Claims. (Cl. 240—44.)

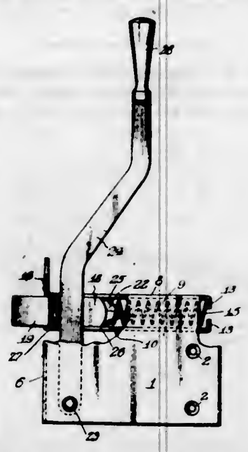


1. In a lamp for motor cars, a parabolic casing, a ring surrounding said parabolic casing and secured thereto, a reflector divided at its horizontal axis having its upper portion fixedly secured to the ring and having its lower portion hingedly connected to the rear end of the upper portion at its horizontal axis, and adapted to be tilted rearwardly from its normal position, yielding means secured to the casing and adapted to press against the hinged portion of the reflector maintaining it in normal position to form a complete reflector, as and for the purpose described.

1,427,252. DOOR-LATCH DEVICE. WILLIAM H. APPLEBY, Windsor, Ontario, Canada. Filed Jan. 19, 1920. Serial No. 352,520. 1 Claim. (Cl. 292—173.)

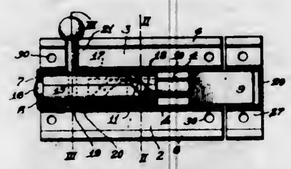
A door latch device made from a blank cut to provide a side wall, an end wall, a lug, and walls which are bent to form a housing longitudinally of the upper edge of said side wall, said housing walls having bent portions affording an end abutment, said housing walls having lever slots, a lever extending through the lever slots against said side wall, a spring in said housing against the end abutment thereof, a latch slidable in said housing and having a notch through which said lever extends, said latch having a conical end extending into an end

of said spring, a handle spindle extending through said side wall and adapted for oscillating said lever to shift



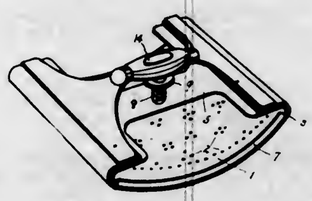
said latch in said housing, and a handle on each end of the spindle so that the latch may be operated from either side of the door.

1,427,253. BOLT FASTENER. WILLIAM H. APPLEBY, Toronto, Ontario, Canada. Filed Mar. 5, 1921. Serial No. 450,071. 4 Claims. (Cl. 292—140.)



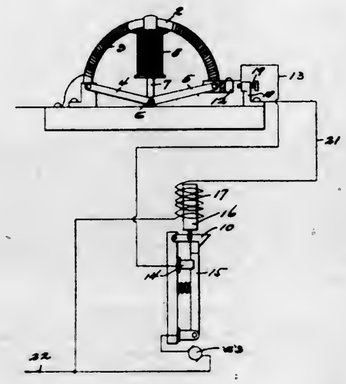
1. A bolt fastener comprising a housing having a transverse slot, a bolt having a shank in said housing, with said bolt of such configuration as to prevent its rotation in said housing, a barrel in said housing receiving said bolt shank and adapted to reciprocate said bolt shank when said barrel is turned, and means extending through the slot of said housing to facilitate turning said barrel.

1,427,254. LETTER-REPRODUCING DEVICE. JOHN PHIL. BANNIGAN, Utica, N. Y., assignor of two-thirds to Frederick B. Adams and David J. Goldstein, both of Utica, N. Y. Filed Aug. 6, 1920. Serial No. 401,684. 6 Claims. (Cl. 101—125.)



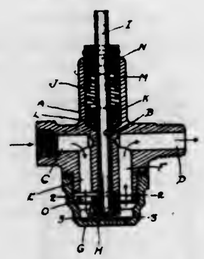
1. In a letter reproducing device, a frame having a circular base, an absorbent cloth and stencil adapted to cover said base, means for permitting the passage of ink through said frame to said cloth, the free ends of said frame being bent to form a horizontal plane, a floating plate, a handle disposed in longitudinal position relative said frame, and having brackets with plane surfaces, and a bolt for forcing the ends of said plate against the ends of said frame, whereby to clamp the ends of said cloth and stencil in place between the floating plate and the plane surfaces of the brackets.

1,427,255. ELECTRIC-CIRCUIT-PROTECTING DEVICE. SYDNEY NORTON BARUCH, San Francisco, Calif. Filed Nov. 11, 1919. Serial No. 337,346. 19 Claims. (Cl. 175—294.)



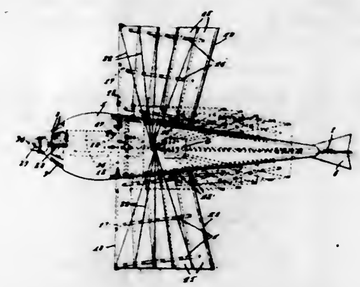
1. A protective device for an electric circuit comprising a switch having a stationary and a movable element, a thermal responsive device having a part free to move, an electromagnetically responsive device having a portion free to move, said part and said portion being attached to said movable element.

1,427,256. VALVE. FREDERICK C. BLANCHARD, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 25, 1920. Serial No. 419,216. 5 Claims. (Cl. 251—84.)



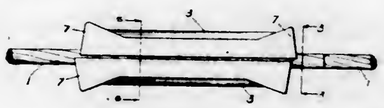
1. A valve comprising a casing having inlet and outlet passages communicating with a common chamber, a rotary disk having an aperture for registration with one of said passages, a seat for said disk comprising an annular portion surrounding the passage controlled thereby, and annularly spaced bearings for holding the disk in the plane of said seat, a stem for revolving said disk passing out from said casing, and means for resiliently holding said disk to its seat.

1,427,257. HYDROAEROPLANE. JENKIN W. BOWEN, STANLEY M. HART, and JOHN E. BOWEN, Pueblo, Colo. Filed Jan. 3, 1922. Serial No. 526,627. 6 Claims. (Cl. 244—2.)



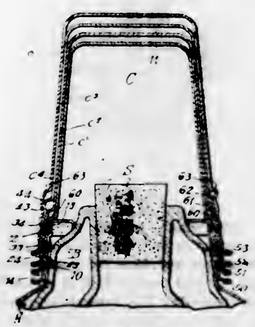
1. The combination with a body adapted to be sealed and having longitudinal channels in the sides thereof, of a series of lapping wing sections at each side of the body, each section of each series being pivotally mounted within the adjacent channel, connections between the sections of each series, means operated from within the body for simultaneously swinging all of said sections backwardly and inwardly thereby to fold them against the sides of the body and within the channels.

1,427,258. WIRE OR CABLE COUPLING. FRANK L. BURNS and FREDERICK J. TESSIN, Three Rivers, Mich. Filed Apr. 3, 1922. Serial No. 548,915. 3 Claims. (Cl. 24—136.)



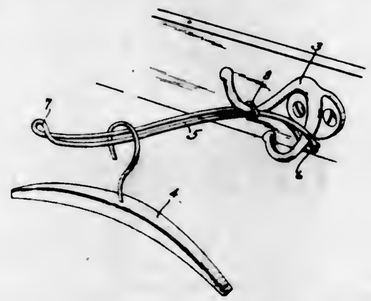
1. A rod or wire coupling comprising a pair of coacting coupling members, each having an inwardly tapered dovetailed rib at one end and an alined inwardly tapered dovetailed slot at the other end, the slot of one member being adapted to receive the rib of the coacting coupling member and each having a longitudinal wire clamping channel at the sides of its rib and groove.

1,427,259. BOTTLE CAP. FREDERICK A. BURTON, New York, N. Y. Filed Jan. 27, 1922. Serial No. 532,176. 3 Claims. (Cl. 215—13.)



1. A cap for thermos bottles which comprises a number of cup members adapted to telescope on each other and having interlocking screwthreaded portions, said screwthreaded portions being enlarged or offset from the walls of the cups to prevent interference of the screwthreads with the surfaces of the cups.

1,427,260. SUPPLEMENTAL CLOTHES HANGER. MILDRED H. CATLIN, Minneapolis, Minn. Filed Apr. 1, 1922. Serial No. 548,833. 2 Claims. (Cl. 45—13.)



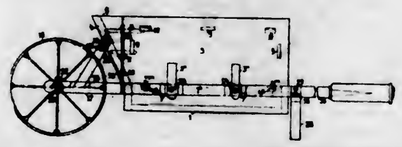
1. A supplemental clothes hanger adapted for application to an ordinary clothes hook and, when applied, forming an approximately horizontal outward extension therefrom, said hanger being made of wire bent to form parallel rods with connected downturned inner and connected upturned outer ends, and a short cross bar connecting said rods and adapted to rest on the top of a closet hook when the downturned inner end thereof is placed against the lower portion of said hook.

1,427,261. REMOVABLE HEEL. HENRY J. CHAMPAGNE, Pittsfield, Mass. Filed Oct. 19, 1920. Serial No. 418,094. 2 Claims. (Cl. 36—36.)



1. A detachable heel for shoes or boots comprising a member adapted to be secured against a lift and provided with an external flange having screw threads thereon, a detachable heel member having a circular flange embedded and interlocked thereto for screw threaded engagement with the first flange, each of said members being provided with registering flanges having screw threads therein and a screw plug threaded in said registering flanges, the threads of said registering flanges being of different direction than the threads of the first flanges.

1,427,262. WHEELBARROW. JOSEPH CHARRIOT, Paris, France. Filed Dec. 5, 1918. Serial No. 265,367. 2 Claims. (Cl. 280—52.)



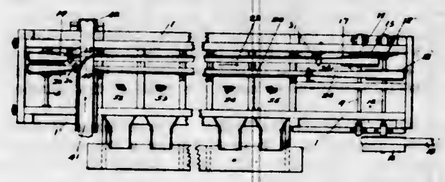
1. A wheel-barrow comprising a box-like body, with a detachable end section, a detachable wheel, detachable

fork members and detachable combined handles and legs all adapted when detached to be enclosed within the box like body and detachable side portions adapted to form a lid or closure for the box like body.

1,427,263. PAPER FELT. ALBERT L. CLAPP and CHESTER B. CLAPP, Danvers, Mass. Filed Sept. 18, 1920, Serial No. 411,072. Renewed Jan. 28, 1922. Serial No. 532,502. 3 Claims. (Cl. 92—39.)

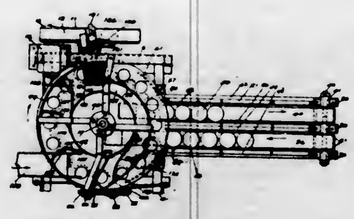
1. A compressible resilient soft felt suitable for gun wads, capable of compression to about 90% of its bulk by a pressure of about 10 pounds to the square inch, and comprising wool or cowhair, paper stock, and cotton fibers in homogeneous admixture and felted relation.

1,427,264. GRADER. CHARLES J. CLEAR, Vancouver, Wash. Filed Nov. 11, 1919. Serial No. 337,298. 10 Claims. (Cl. 130—32.)



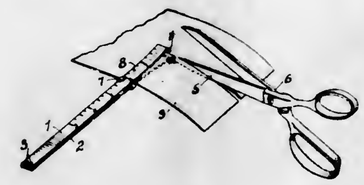
1. In a machine for grading articles by size, the combination with driving mechanism, of a pair of flat, endless belts having cooperative longitudinally divergent and transversely downwardly convergent working faces, and means disposed against the back of each belt so as wholly to support its working face in true cooperative relationship to the other belt.

1,427,265. FILLING MACHINE. CHARLES J. CLEAR, Vancouver, Wash. Filed Nov. 11, 1919. Serial No. 337,299. 6 Claims. (Cl. 226—96.)



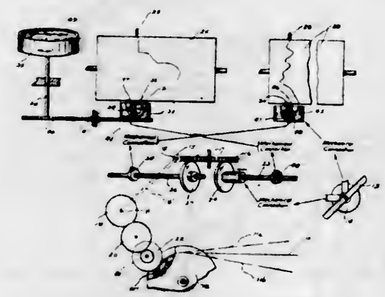
1. In a filling machine, the combination of means for delivering containers in regular order, a track for receiving the containers from said delivery means, means for moving the containers in regular order over said track, a movable table above said track having a series of filling openings, said container moving means being adapted to move the containers with each container constantly in registry with a filling opening until it has been filled, and a stationary fill-distributing frame above said table, said frame having a plurality of compartments having communicating openings, and means for directing any surplus fill from the final compartment to fill openings approaching the first compartment of the series without removing material from the table.

1,427,266. GAUGE FOR MARKING AND CUTTING STRIPS. LILLIAN M. DABNEY, Rosedale, Kans. Filed May 12, 1921. Serial No. 468,842. 2 Claims. (Cl. 33—186.)



1. In a gauge of the kind described, two parallel members fastened together at one end, one member adjacent to its free end having a transverse groove, the other member at its free end having an inwardly extending transverse flange adapted to enter said groove, and a gauge member engaging and slidable longitudinally on said members, substantially as set forth.

1,427,267. TOPOGRAPHIC RECORDER. DIMITRI SENSAUD DE LAVAUD, New York, N. Y. Filed Aug. 27, 1920. Serial No. 406,445. 21 Claims. (Cl. 234—8.)

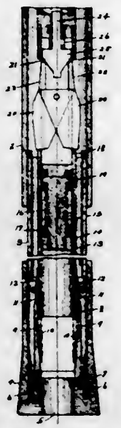


1. In a surveying instrument the combination comprising means for measuring distance traversed, means for measuring the azimuth, means for measuring the vertical angle, means for automatically making simultaneously a plurality of records of said measurements at given points of a course, and operating means for the recording means including a reel, a cable wound on the reel and adapted to have its free end attached to an object fixed in the field to be surveyed, and operative connections between the reel and the recording means.

1,427,268. CORE-TAKING DEVICE. REDUS D. DODDS, Houston, Tex. Filed Sept. 18, 1920. Serial No. 411,059. 4 Claims. (Cl. 255—72.)

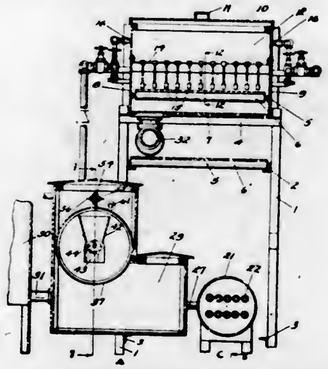
1. A sample taking device, including a tubular stem, a core-forming bit attached thereto provided with a central passageway, a core barrel within the stem, releasable means anchoring said barrel within said stem, separate core-engaging dogs depending from the barrel, said dogs being internally toothed, and aligned with said passageway, through which the core formed by said bit passes into said stem, and means for contracting said core-en-

gaging dogs, and holding the same against the core during the withdrawal of the barrel from said stem, said core en-



gaging dogs and barrel being rotatable relative to the anchoring means.

1,427,269. LYEING SECTION OF PEELING MACHINES. SAMUEL J. DUNKLEY, Kalamazoo, Mich., assignor to Dunkley Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Jan. 28, 1919. Serial No. 273,596. 10 Claims. (Cl. 146—14.)



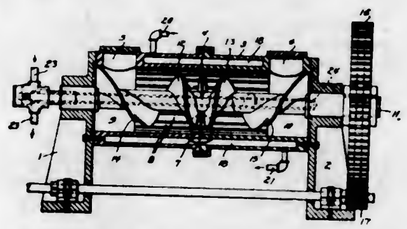
9. In a lye or disintegrating means, the combination with a suitable casing, a nozzle spray extending into and secured to said casing comprising a cylindrical bore with axial jet outlet directed into the casing, and a nipple connected to deliver the solution tangentially to the cylindrical bore, coacting as specified.

1,427,270. PEELING APPARATUS AND PROCESS. SAMUEL J. DUNKLEY, Kalamazoo, Mich., assignor to Dunkley Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Jan. 28, 1919, Serial No. 273,595. Renewed Feb. 6, 1922. Serial No. 534,593. 25 Claims. (Cl. 146—14.)



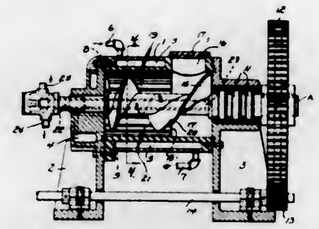
20. The process of peeling peaches or similar fruit consisting in subjecting the surface to the action of a highly heated mist from a lye solution, and spraying the said fruit when the peel thereon has become disintegrated, as specified.

1,427,271. MIXING MACHINE. ERNST EGER, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed May 13, 1921. Serial No. 469,118. 6 Claims. (Cl. 18—2.)



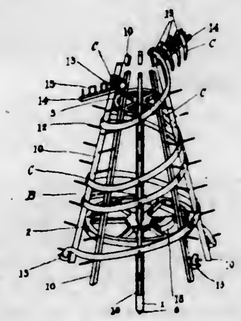
1. A mixing machine for compounding plastics having in combination, a chamber substantially circular in cross section throughout, means whereby it may be charged and discharged, and a rotor in said chamber, said rotor having blades coiled oppositely about its axis for working the material in contrary axial directions adjacent the rotor and in opposite directions adjacent the walls of the chamber.

1,427,272. MIXING MACHINE. ERNST EGER, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed May 13, 1921. Serial No. 469,119. 22 Claims. (Cl. 18—2.)



1. A machine for mixing plastic materials having in combination, a container and means movable within the container for working material in a substantial oval orbit lengthwise the container.

1,427,273. HOSE DRAINING AND DRYING REEL. EDWARD P. ENDLICH, Cumberland, Wis. Filed Apr. 25, 1921. Serial No. 464,334. 4 Claims. (Cl. 242—86.)



3. A rotary hose reel for carrying a plurality of hose having end couplings, comprising a conic reel, an arm extending laterally at the top of the reel, means carried by said arm in engagement with the couplings of said hose for removably attaching the hose to the arm, and hose supporting pins extending from the surface of the reel, said pins arranged to describe a plurality of interspaced spirals for the purpose set forth.

1,427,274. PORTABLE STANCHION. JOHN F. EVERS, Denison, Iowa. Filed Apr. 27, 1921. Serial No. 464,800. 1 Claim. (Cl. 119—99.)



A stanchion of the character described embodying a pair of end frames, means for connecting said frames to each other, a rack carried by the top of one of said frames, a second rack carried by the side portion of said frame, a lever pivoted to said frame and provided with means for engagement with the upper rack, a lever pivoted to the opposite frame and provided with means for engagement with the second mentioned rack, a pulley carried by the connecting means of the frames, a pulley carried by the second mentioned lever, and a cable engaged with said pulleys one end of said cable being secured to an animal's head, the opposite end of said cable being secured to a support, said cable being tightened upon movement of the second mentioned lever.

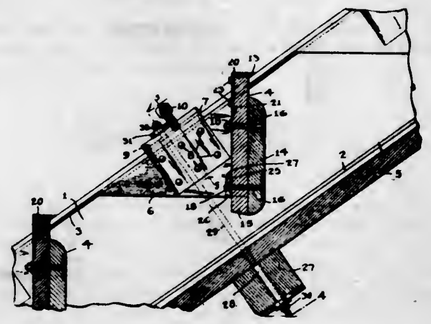
1,427,275. AUTOMOBILE BUMPER. ROLLIE B. FAGBOL, Oakland, Calif. Original application filed Nov. 12, 1917, Serial No. 201,474. Divided and this application filed Mar. 31, 1921. Serial No. 457,324. 18 Claims. (Cl. 293—55.)



4. A vehicle bumper, comprising an impact member adapted to extend across the frame of the vehicle, and characterized by having its terminal end portions looped rearwardly and means secured to said impact member intermediate the looped portions for supporting said member on the vehicle.

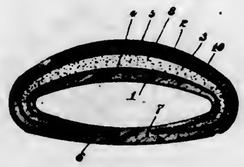
1,427,276. STAIR CONSTRUCTION. HERMAN L. FIELDBLET and JOHN ROBERT O'DONNELL, New York, N. Y. Filed Feb. 1, 1921, Serial No. 441,646. Renewed July 17, 1922. Serial No. 575,758. 17 Claims. (Cl. 25—118.)

1. In concrete stair construction, the combination of strings having inwardly disposed flanges, said strings constituting part of the form-work and eventually entering into the permanent construction, riser-forms support-



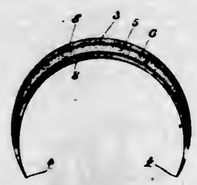
ed by and between said strings, and a floor-form also supported thereby.

1,427,277. SELF-HEALING TUBE. EDWARD FETTER, Baltimore, Md. Filed Dec. 31, 1921. Serial No. 526,229. 2 Claims. (Cl. 152—13.)



1. A pneumatic tube composed of elastic rubber having a pocket in the wall thereof, a stratum of raw unvulcanized rubber lining the pocket and a puncture sealing composition in said pocket.

1,427,278. SELF-HEALING TUBE. EDWARD FETTER, Baltimore, Md. Filed Feb. 9, 1922. Serial No. 535,195. 4 Claims. (Cl. 152—13.)

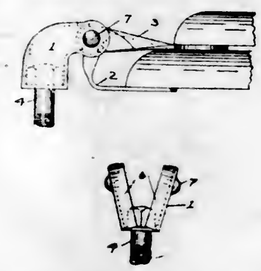


2. A puncture healing cover for the treads of inner tubes of pneumatic tires consisting of a sack shaped to cover the tread and puncture healing plastic material in the sack.

1,427,279. HINGE. VICTOR FILONOWICZ, Saginaw, Mich. Filed Dec. 14, 1921. Serial No. 522,386. 2 Claims. (Cl. 4—18.)

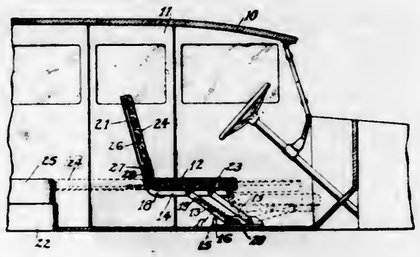
1. In a hinge of the class described, a base-member formed of a single piece of metal comprising an apertured bottom portion and oppositely flanged substantially

L-shaped wings bent up from said bottom, the edges of said flanges secured together, a bolt received in the



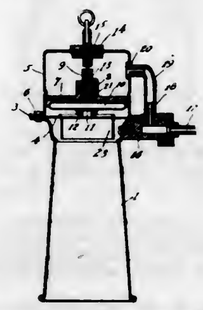
aperture of said bottom, the head of said bolt engaged by the sides and flanges of said wings, and leaf hinges pivoted to the outer ends of said wings.

1,427,280. AUTOMOBILE SEAT. FRANK GAHM, Streator, Ill. Filed Nov. 30, 1921. Serial No. 518,899. 2 Claims. (Cl. 155—15.)



1. In an automobile or other vehicle, a rear seat, a front seat comprising an underframe and a hinged back normally in upright position but adapted to be swung forwardly or rearwardly to horizontal position, cushions for said underframe, back and rear seat, said back having two hinges, one located below the upper level of the front cushion and permitting rearward swinging of the back to horizontal position and the other located above the upper level of said cushion and permitting the back to swing forwardly to horizontal position, and means for securing the back in either upright or rearward position, the cushions on said seats and back forming a cot in said latter position.

1,427,281. PNEUMATIC HORN. WALTER A. GARRATT, Covington, Ky. Filed Aug. 31, 1921. Serial No. 497,201. 6 Claims. (Cl. 116—138.)



5. In a sounding device, the combination of a resilient diaphragm, a bellows device made up of disk members secured together at the edges, an air conduit communicating with the inside of the said bellows, a valve for one of the disks of the bellows device, said valve adapted to seat against the resilient diaphragm, and means for creating a partial vacuum within the bellows device through the air conduit whereby the bellows device will contract, the valve will be unseated, the vacuum destroyed and the valve will return to its seat.

1,427,282. VENTILATED FIRE DOOR. WAINWRIGHT B. GERVAIS, Oak Park, Ill., assignor to Variety Fire Door Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 3, 1921. Serial No. 512,467. 5 Claims. (Cl. 189—46.)

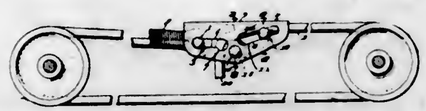


1. In a hollow metallic fire door, the provision of upper and lower perforate enclosing members, the perforations in the upper member being upwardly embossed to form a dam around each of the perforations.

1,427,283. METHOD OF WORKING QUICK-CURING COMPOUNDS. WILLIS A. GIBBONS, New York, N. Y., assignor to American Rubber Company, a Corporation of Massachusetts. Filed Mar. 31, 1921. Serial No. 457,501. 3 Claims. (Cl. 18—53.)

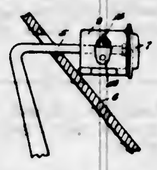
1. That method of compounding or mechanically manipulating vulcanizable rubber compositions containing accelerating substances which either or both shorten the duration of cure or lessen the temperature required, which consists in, maintaining the rubber softened to prevent substantial vulcanization while mechanically working the composition.

1,427,284. ROPE OR CABLE CONNECTOR AND GRIP. LEOPOLD C. GIERYNSKI and CASIMIR BOHDANOVICZ, New Britain, Conn. Filed Mar. 1, 1922. Serial No. 540,263. 5 Claims. (Cl. 24—136.)



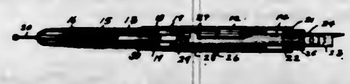
1. A coupling and gripping device comprising a U-formed body, to one end of which one end of a rope or cable is permanently attached, said body at its other end having cammed slots inclined relatively to one wall of the body, a clinching or gripping member movably mounted in said slots, and adapted to clamp the other end of said rope between it and said wall of the body, a pulley journaled in the side walls of the body and over which one end of the rope engages, when pulling the rope to cause the gripping members to clamp against the rope.

1,427,285. CLUTCH-PEDAL LOCK. AUGUST K. GOEHRING, Clay Township, St. Joseph County, Ind. Filed Oct. 8, 1919. Serial No. 329,288. 1 Claim. (Cl. 70—128.)



The combination with the shank of a lever extending through an aperture in an inclined member disposed at an acute angle to the shank and extending downwardly and outwardly, said shank being provided with a right angularly disposed foot engaging tread, of a lever lock for said lever, said lock comprising two substantially rectangular shaped plates formed from spring material and hingedly connected together at their lower edges, and adapted to frictionally hold the shank, a staple carried by one of said rectangular shaped members and extending through an aperture in the other member and adapted to receive a lock, said rectangular shaped members being vertically disposed, and having their hinged points horizontally disposed, one end of the hinged side of the plates engaging the pedal, the other end of the hinged side engaging the inclined member and the upper outer corners of the plates engaging the tread of the lever.

1,427,286. DENTAL HANDPIECE. ROBERT E. GRAVES, Houston, Tex. Filed July 26, 1921. Serial No. 487,003. 6 Claims. (Cl. 32—15.)



1. A dental hand piece including an outer sleeve, an inner sleeve fitted into one end of the outer sleeve, and having a limited lengthwise movement relative thereto, a shaft in the inner sleeve, one end of which has a flared socket, a chuck formed to fit into said socket, a collar connected to the chuck and moveable lengthwise, on the shaft, and actuating means carried by the inner sleeve and on opposite sides of said collar whereby the chuck may be moved in either direction in the socket by a corresponding movement of the inner sleeve, and a locking device carried by one sleeve and arranged to be engaged with the other sleeve to lock them against relative lengthwise movement.

1,427,287. RAIL JOINT. LOUIS GASOSKO, Auburn, N. Y. Filed May 12, 1922. Serial No. 560,336. 3 Claims. (Cl. 238—251.)



1. A rail joint of the class described, comprising two fish plates adapted to engage opposite sides of the webs of two adjoining perforated rail ends, bolts passed through one of said fish plates, dove-tailed ends on said bolts adapted to be passed through the perforations in said rail ends into engagement with sockets in the second of said fish plates, said sockets communicating with upper recesses, means slidably held in these recesses for engaging the dove-tailed ends of said bolts by engagement with the rail head when said second fish plate is hammered home, and means for locking said second fish plate automatically to the rail head and the flange upon the engagement of said bolts and said sliding means.

1,427,288. PAINT PACKAGE. JOHN W. HASBURG, Chicago, Ill. Filed June 10, 1921. Serial No. 476,405. 2 Claims. (Cl. 206—46.)



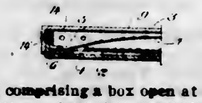
1. A package comprising a box open at the top, a palette lying in the bottom of the box, a cover for said palette comprising a member flat at the margins and raised in the center, said cover having at its edges flanges projecting above the top of the box when said palette and cover are assembled in the box, and a lid for said box adapted to engage with and rest upon said flanges.

1,427,289. PAINT PACKAGE. JOHN W. HASBURG, Chicago, Ill. Filed June 10, 1921. Serial No. 476,406. 1 Claim. (Cl. 206—46.)



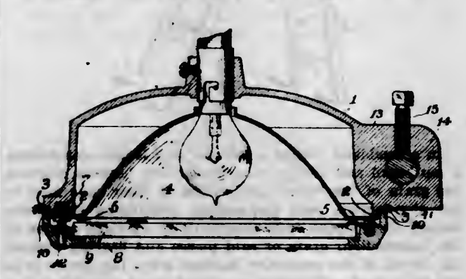
A package comprising a box open at the top, a palette lying in the bottom of the box, a cover for said palette comprising a member having flat marginal portions and a raised central portion, a follower overlying the flat marginal portions of said cover and having flanges projecting upwardly beyond the upper edge of the box, and a lid telescoped upon the box and bearing against said flanges.

1,427,290. PAINT PACKAGE. JOHN W. HASBURG, Chicago, Ill. Filed June 10, 1921. Serial No. 476,407. 3 Claims. (Cl. 206—46.)



1. A package comprising a box open at the top, a palette lying in the bottom of the box; covering means for the palette including a shallow transparent dome-like central part, a part resting on the marginal portions of the palette, and upwardly-directed flanges or walls secured to the inner face of the sides of the box; and a lid for said box.

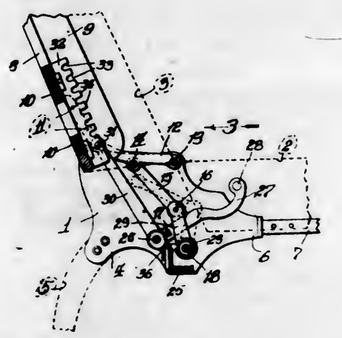
1,427,291. LAMP. ELLSWORTH A. HAWTHORNE, Bridgeport, Conn. Filed Apr. 28, 1922. Serial No. 557,087. 2 Claims. (Cl. 240—41.)



1. In a lamp of the character described, a body portion having a flat rim which merges into an angular seat, said

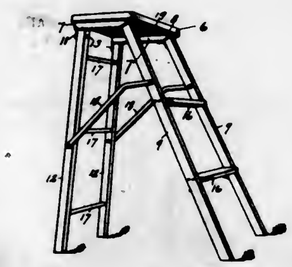
rim having formed in its face a plurality of threaded sockets, a reflector having a straight peripheral flange adapted to seat against the face of the rim and provided with elongated perforations which register with said sockets, bushings exteriorly and interiorly threaded and having flanged heads, said bushings driven into said sockets with said heads impinged against the reflector flange, and a closure having a glazing and secured to the lamp body by screws driven into said bushings, said closure having at its periphery an angular lip seating firmly against the surfaces of said seat with a gasket therebetween.

1,427,292. ATTACHMENT FOR RECLINING CHAIRS. JOHN J. HOGAN, St. Louis, Mo. Filed Sept. 17, 1921. Serial No. 501,350. 4 Claims. (Cl. 155—152.)



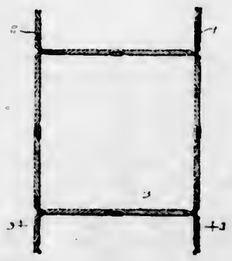
1. In a reclining chair, a back rest therefor, a pair of oppositely disposed members angularly extended from said back rest, each of said members being pivoted to the chair, a link connected to each of said members, a lever connected to each of said links, and resilient means cooperable with each of said levers.

1,427,293. FOLDING STEPLADDER STOOL. JOHN F. HOLLIDAY, Washington, Ind., assignor to Hincher Manufacturing Company, Washington, Ind., a Corporation of Indiana. Filed June 1, 1921. Serial No. 474,145. 1 Claim. (Cl. 228—2.)



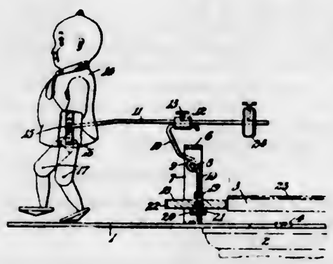
In a combined folding stool and step ladder, comprising a top board and step section, under-side battens crossing the grain of the board and beveled at their ends next to the step-section, said step-section comprising side-pieces having their upper ends substantially at right angles to the longitudinal grain of said pieces and bearing against the bevels of the respective battens when the device is in use as a stool and ladder, a pair of legs having their upper ends substantially at right angles to the longitudinal grain of the legs, leaf hinges connecting the side pieces and legs with the respective battens, a leaf of each leg hinge being between the end of the leg and batten when the device is in operative position with the joint of the hinge at the end of the batten and approximately under the rear edge of the top board, steps connecting said side-pieces, and braces pivotally connecting the side-pieces and legs.

1,427,294. ROOF LADDER. HORACE W. HUGHES, Houlton, Me. Filed Jan. 18, 1922. Serial No. 530,024. 3 Claims. (Cl. 228—40.)



1. A wire ladder comprising side members, a plurality of substantially looped wire members disposed on and extending between said side members, and having portions thereof extending along said side members, portions of adjacent pairs of said looped members being twisted upon each other to form rungs, and the portions of the said looped members extending along the side members being twisted thereon.

1,427,295. MECHANICAL TOY. PERCY THOMAS JACKSON and GEORGE FREDERICK PICKETT, Bexley Heath, England. Filed Mar. 11, 1922. Serial No. 543,070. 10 Claims. (Cl. 46—40.)

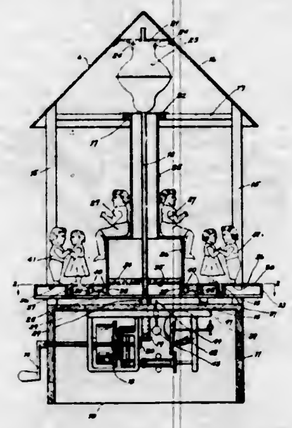


1. A mechanical toy comprising in combination a platform, means for securing said platform to a sound reproducing instrument, a support carried by said platform, a tilting carrier pivotally mounted in said support, an articulated figure pivotally supported on said carrier, and a carrier-actuating rotating member mounted on said carrier and adapted to swing successively into and out of engagement with a rotating part of said instrument other than the record and transmit motion to said carrier and figure.

1,427,296. MECHANICAL TOY. WOJCIECH JAKUBIEC, Garfield, N. J. Filed Oct. 25, 1921. Serial No. 510,312. 2 Claims. (Cl. 46—27.)

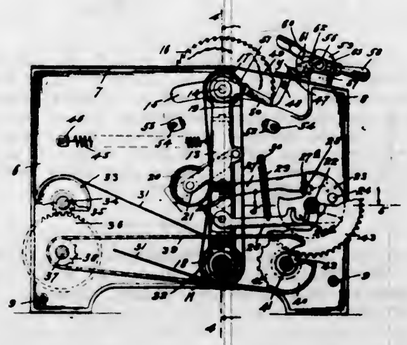
1. A toy comprising a structure having a motor containing base, roof supporting posts fixed on said base,

brace bars connecting said posts, a hollow column depending from the braces, an enlarged cylindrical base at the bottom of said column, forming a seat on which figural objects are mounted, a central shaft extending into the base, a hollow annular platform fixed to the shaft, bevel



gears, mounted in the platform, on a vertical axis, figural objects secured to the gears, a bevel drive gear secured adjacent the lower end of said column, and gear trains communicating motion between said bevel gears, and said drive gear.

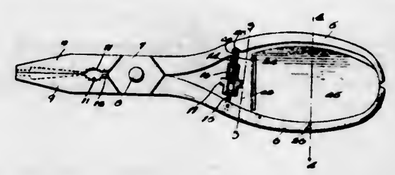
1,427,297. LUMBER CUT-OFF MACHINE. CHARLES JOHNSON, Minneapolis, Minn. Filed May 14, 1921. Serial No. 469,731. 8 Claims. (Cl. 143—46.)



1. In a machine of the kind described, the combination with a saw and a vibratory support therefor, of means for vibrating said support and saw comprising reversely acting driving dogs connected to said support, and a crank-equipped shaft alternately operative on said dogs to oscillate said saw support.

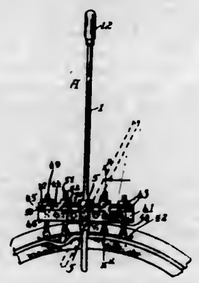
1,427,298. PLIERS. HARRY H. JONES, Holland, Oreg. Filed Mar. 11, 1921. Serial No. 451,595. 3 Claims. (Cl. 294—36.)

1. A tool comprising a pair of handles having their forward portions pivotally connected and formed with jaws, a link pivotally connected to one of said handles, a coupling connected to said link, a second link connected to said coupling and having a transversely extending pin, one of said handles being formed with sockets to



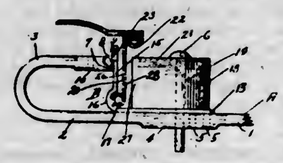
receive the ends of said transversely extending pin, whereby the second named link is detachably connected to the handles having the sockets.

1,427,299. FENDER RIM AND WIRED-EDGE TOOL AND THE LIKE. HOMER R. KENNEDY, Los Angeles, Calif., assignor to Gussie M. Kennedy, Los Angeles, Calif. Filed Mar. 4, 1920. Serial No. 363,196. 15 Claims. (Cl. 81—15.)



1. In a device of the character described, the combination of means for engaging the wired edge of a fender, and means for engaging the top surface of the fender cooperating with said first named means, whereby by a manual operation of the device kinks are removed and the metal re-crimped about the wire of the wired edge and indentations removed from the surface of the fender; said first named means including a lever arm having an edge-gripping returned end portion, and said second named means including a pressure block.

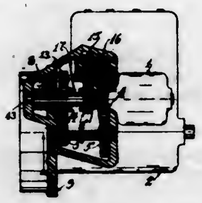
1,427,300. FENDER RIM AND WIRED-EDGE TOOL AND THE LIKE. HOMER R. KENNEDY, Los Angeles, Calif., assignor to Gussie M. Kennedy, Los Angeles, Calif. Original application filed Mar. 4, 1920, Serial No. 363,196. Divided and this application filed Feb. 14, 1921. Serial No. 444,700. 6 Claims. (Cl. 81—15.)



6. A sheet metal tool, comprising a lever arm, a rim die and a pressure block adjustably held to said lever arm, and between which rim die and pressure block a

fender rim may be disposed, said rim die including two arms bent at angles, there being a slot in said rim die whereby adjustment of the rim die with relation to the lever arm may be effected.

1,427,301. GEARING FOR ENGINE STARTING AND LIGHTING GENERATORS. AUSTEN J. KLONECK, New York, N. Y. Filed May 16, 1917. Serial No. 168,981. 5 Claims. (Cl. 290—31.)



1. A device of the character set forth, comprising an engine, a gear connected with said engine, a dynamo electric machine adapted for operation as a generator or as a motor, a shaft in connection with said dynamo electric machine, a gear mounted thereon and movable in an axial direction, means for occasioning a sliding of said second mentioned gear comprising spiral shaped teeth on said first and second mentioned gears, said two mentioned gears engaging with one another for driving said dynamo electric machine as a generator, and speed reduction gearing arranged between said engine gear and said dynamo electric machine adapted for an automatic engagement by means of the sidewards sliding operation of said spiral teeth of said meationed gears when the dynamo electric machine operates as a motor.

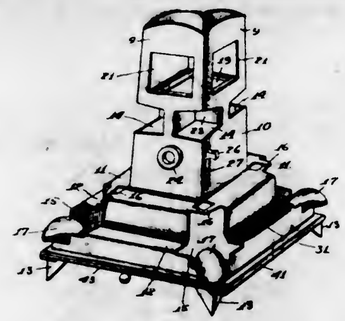
1,427,302. TIRE FOR VEHICLES. AUSTEN J. KLONECK, New York, N. Y. Filed June 9, 1917. Serial No. 173,824. 6 Claims. (Cl. 152—1.)



1. A tire for vehicles including a plurality of layers of fabric and rubber composition forming a tubular opening therein, said tire comprising means at the base for attaching the same upon a wheel, a plurality of layers of rubber cemented fibre attached upon the traction part of said first mentioned layers, wire fabric attached around said first mentioned layers, and layers of fabric and rubber attached to the sides of the first and second mentioned layers adapted for connecting said first and second mentioned layers.

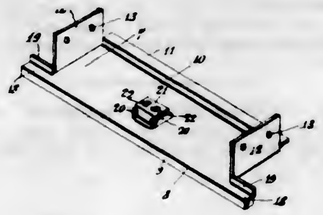
1,427,303. SMOKER'S UTENSIL. SIGMUND F. KOHN, New York, N. Y. Filed May 19, 1920. Serial No. 382,665. 10 Claims. (Cl. 131—61.)

10. A smoker's utensil side blank constructed so as to be bent transversely intermediate its ends to form one side of the comparatively wide base of the utensil and the corresponding side of the comparatively narrow body thereof, said blank having partially severed portions



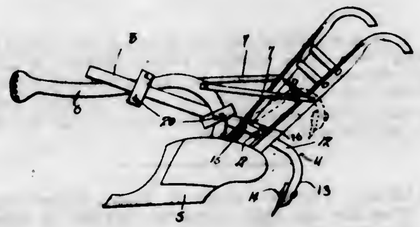
adapted to be bent at an angle with respect to said blank, said blank being further provided with projections and perforations along certain edges.

1,427,304. WEATHERPROOF WINDOW SILL. ATLAS C. LANGFORD, Jackson, Tenn. Filed Sept. 23, 1919. Serial No. 325,615. 1 Claim. (Cl. 189—75.)



In combination with a window frame, a sill comprising a metallic plate extending the full width of the frame and inclined to the horizontal, an elevated marginal flange bent from the inner longitudinal edge of the plate to overlap the inner sill of the frame, flanges bent upwardly from each end of the plate adapted to extend within the jamb of the frame, and means securely fastening the flanges to the latter.

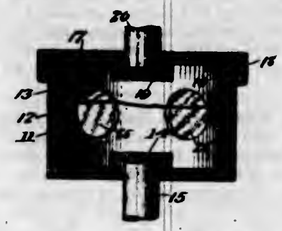
1,427,305. SUBSOILER ATTACHMENT FOR PLOWS. JOSEPH PLEASANT LITTLE, Statesville, N. C. Filed June 16, 1919. Serial No. 304,565. 1 Claim. (Cl. 97—32.)



A sub-soiler attachment for plows, comprising a bar bent upon itself intermediate its ends to form side arms

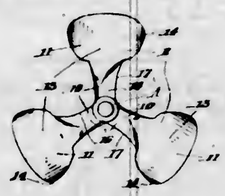
which are in contact with each other, the arms of the bar being provided with a plurality of apertures, and being offset laterally, the arms carrying a pivot element, the double-armed construction of the bar serving to reinforce the bar at the place where it is offset laterally and at the place where the apertures are formed, and serving, also, to afford an increased bearing for the pivot element; a U-shaped standard comprising legs between which the arms of the bar are received, the legs being mounted to swing for adjustment on the pivot element; a removable securing device carried by the legs of the standard and so located as to be mounted in any of the apertures in the arms; a share carried by the standard; a combined spacing and suspension means disposed between the legs of the standard and separating the legs sufficiently to prevent them from binding on the arms of the bar; and means for securing the bar to the beam of a plow.

1,427,306. CARBURETOR FLOAT. JOSEPH O. LUTHY, San Antonio, Tex. Filed Feb. 5, 1920. Serial No. 356,488. 5 Claims. (Cl. 137—104.)



3. A float comprising a cup-shaped body portion having a core of fibrous material provided with openings at or about the water level when the float is in operative position in the tank, an imperforate coating of celluloid on said body portion, a cover secured to the body portion, and valve stem sections secured in the body and cover portions.

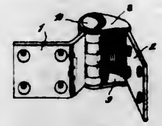
1,427,307. PROPELLER. ROY C. MACKENNEY, St. John, New Brunswick, Canada. Filed Nov. 25, 1918. Serial No. 264,050. 1 Claim. (Cl. 173—159.)



A propeller blade comprising an inner and outer part, the inner part being set with a helical twist at 25 to 30 per cent less pitch than the outer part pitch basis, the driving side of the outer part being flat and at right angles to the axis of the hub of the propeller, thereby causing the pitch to expand as it nears the top of the blade, and the front face of the blade being convex and tapering off to a sharp cutting edge.

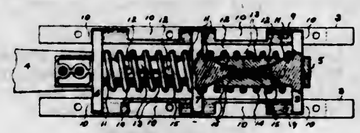
1,427,308. AUTOMOBILE DOOR HINGE. HENRY J. MASTENBROOK, Lakewood, Ohio, assignor to The Coach Builders Hardware Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 10, 1919. Serial No. 343,838. 3 Claims. (Cl. 16—135.)

2. A hinge of the class described comprising an inner and an outer plate, the outer end portion of the latter plate being turned about a given axis through a number of degrees and terminating thereheyond in knuckles that are concealed by such portion, the inner plate terminating in knuckles interengaging with those of the former plate, top and bottom plates carried by the outer end of one of the former plates and between which the corresponding por-



tion of the other plate is adapted to repose when the hinge is in closed position, said plates having apertures in axial alignment with the knuckles of the plates, and a pintle extending through said apertures and knuckles.

1,427,309. FRICTIONAL-DRAFT GEAR FOR RAILROAD CARS. ALONZO C. MATHER, Chicago, Ill. Filed Mar. 19, 1921. Serial No. 453,781. 1 Claim. (Cl. 213—64.)



The combination in a friction draft device of a pair of oppositely disposed followers, a pair of wedges one of which is associated with each of said followers, a pair of laterally movable oppositely positioned wedge blocks each having oppositely directed wedge faces engaging the wedge faces of the follower wedges, and a coil spring expanding between the opposing faces of the followers surrounding the wedge blocks and in frictional contact with their outer surfaces.

1,427,310. HOISTING APPARATUS. GEORGE F. MEYERS, New York, N. Y. Filed Sept. 10, 1920. Serial No. 409,373. 12 Claims. (Cl. 254—86.)

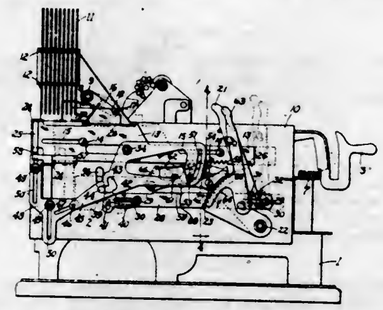


1. An automobile hoisting apparatus comprising a carrying frame, lifting members mounted on said frame adjacent opposite ends thereof for rocking movement in a vertical plane, a drive shaft mounted on the frame in position to be engaged and operated by the automobile drive wheels, and operative connections between said shaft and the lifting members for rocking the latter in a direction to raise the carrying frame and supported automobile.

1,427,311. CASH-REGISTERS TAB-ACTUATING MECHANISM. FREDERICK EDWARD MILLER, St. Louis, Mo., assignor to St. Louis Cash Register Company, Incorporated, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 2, 1920. Serial No. 400,595. 12 Claims. (Cl. 235—23.)

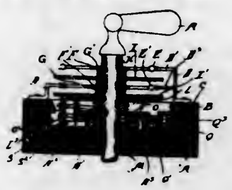
1. In a machine of the class described, a plurality of indicating tabs, lifting means adapted to be positioned beneath any one of said tabs, an operating handle adapted to raise said lifting means, means for locking said handle against movement and means for releasing said locking means simultaneously with the positioning of the lifting means.

8. In a machine of the class described, indicating tabs, registering mechanism including a pinion, a gear segment for actuating said pinion, a tab raising element, a member



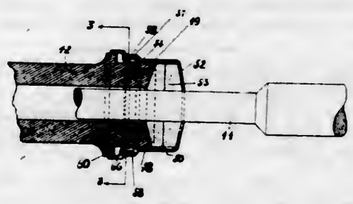
adapted to position said segment and element, a selective handle for setting said member, and an operating handle for positively actuating said element and segment.

1,427,312. ELECTRIC SWITCH. ROBERT H. MILLER, Detroit, Mich., assignor to Detroit Stove Works, Detroit, Mich., a Corporation of Michigan. Filed May 12, 1917. Serial No. 168,155. 3 Claims. (Cl. 200—66.)



1. In an electric switch, the combination with a base, of a stem rotatively carried by said base, a plurality of contacts rotatable about the axis of said stem, corresponding stationary contacts carried by said base and successively engageable by the rotative contacts, a plate stationary upon the base having stops thereon corresponding to the stationary contacts, mechanism selectively engageable with said stops for holding the rotative contacts in their various positions, said mechanism being releasable by said stem, a spring for actuating a snap movement of a rotative contact in either direction stressed by initial rotation of the stem prior to releasing of the locking mechanism, and a pin rotatively actuable by the stem engaging in a slot of the stop-carrying plate to limit rotation of the stem in either direction.

1,427,313. LOCKING NUT. ALFRED B. MORSE, South Easton, Mass. Filed May 6, 1921. Serial No. 467,239. 4 Claims. (Cl. 151—2.)



1. An improved locking device comprising a rotatable multi-recessed socket, a spring ring stationary with respect thereto and provided with a portion adapted to be engaged by one of said recesses.

1,427,314. AIRCRAFT. GEORGE FRANCIS MYERS, New York, N. Y., assignor to Myers Aircraft Corporation, a Corporation of Delaware. Original application filed July 9, 1909, Serial No. 506,817. Divided and this application filed Dec. 6, 1916. Serial No. 135,339. 9 Claims. (Cl. 244—14.)



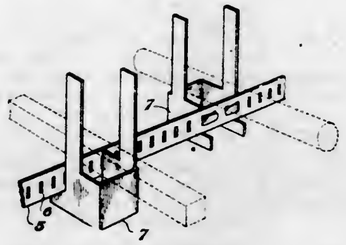
1. In an aeroplane, the combination of aero sustaining surfaces, a main body or car carried thereby, said car being of elongated, cylindrical form and extending in the direction of travel and having a tapered rear end, a motor and air propeller for driving the machine at sustaining speed through the air, and a radiator for said motor mounted on the car and closely embracing a closed portion of the exterior thereof, said radiator and car thereby presenting a substantially continuous uninterrupted surface in the fore and aft direction for the purpose set forth.

1,427,315. METHOD OF FORMING AN ARTICLE OF SHEET METAL. WILLIAM H. NEEDHAM, Worcester, Mass., assignor to Boston Pressed Metal Company, Worcester, Mass., a Corporation of Maine. Filed Sept. 10, 1919. Serial No. 322,807. 2 Claims. (Cl. 113—51.)



1. The method of forming an article from sheet metal, which consists in taking a sheet metal blank, drawing the same to the form of an open cup, successively reducing the cylindrical diameter of the cup, adjacent the open end only, and finally forcing the reduced portion axially against the bottom of the cup and simultaneously shaping the latter to form a ball-seat.

1,427,316. BAR SPACER. CHESTER J. O'BRIEN, Chicago, Ill. Filed June 3, 1920. Serial No. 386,211. 13 Claims. (Cl. 72—122.)



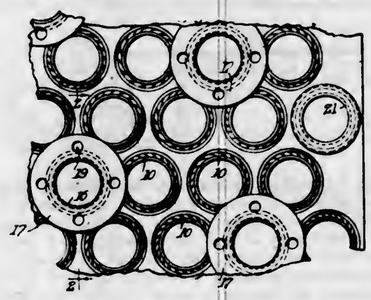
1. In a concrete reinforcing bar spacer, an upright strip with spaced perforations therein, and means engaging the perforations disposed alternately and entirely on opposite sides of the strip and resting on edge for supporting it in an upright position with the lower edge of the strip at a distance above the bottom of the concrete form.

1,427,317. AIR-LIFT SYSTEM. JOHN OLIPHANT, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 19, 1919. Serial No. 283,592. 8 Claims. (Cl. 103—84.)



1. In an air lift pump, in combination, an elbowed riser having a restriction at the elbow outlet, and a pump member extending longitudinally thereof through said restriction.

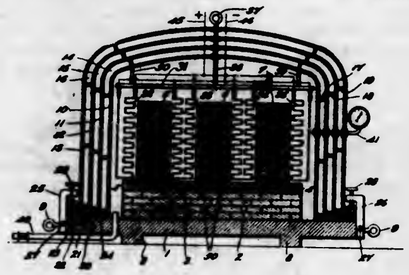
1,427,318. CONDENSER. FRANK E. PAYNE, Chicago, Ill. Filed Nov. 28, 1921. Serial No. 518,151. 5 Claims. (Cl. 285—46.)



4. A condenser having a tube sheet with a large number of openings therethrough, tubes the ends of which are received within said openings, the outer ends of said openings being screw-threaded, metallic packing pressed between said tube ends and said screw threads to engage the latter and resist movement as the tube expands and contracts, and a plurality of ferrules screwed into certain of said openings, and each having a portion which restricts outward movement of the tube in the same opening and having an extension overlying the ends of all the adjacent tubes to restrict outward movement of the latter, whereby a smaller number of ferrules is required than the number of tubes.

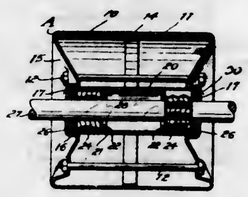
1,427,319. APPARATUS FOR ANNEALING THIN STEEL SHEETS. SAMUEL PEACOCK, Wheeling, W. Va., assignor, by mesne assignments, to Wheeling Steel & Iron Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Nov. 9, 1920. Serial No. 422,814. 2 Claims. (Cl. 148—16.)

1. In an apparatus for annealing thin sheets of steel, the combination of a metal base plate; a mass of refractory non-heat conducting material carried by said base plate; means for supporting said steel sheets in packs on said mass; a heat insulating cover comprising a plurality of metal members spaced apart and provided with air spaces between them; enclosing said mass and packs of sheets; means to form an airtight joint between said base plate and said cover; means to exhaust the air from



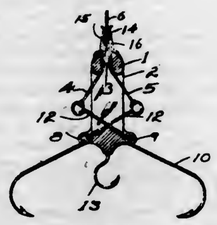
around said packs; and electric heating means for heating said packs to an annealing temperature, substantially as described.

1,427,320. WHEEL. WILLIAM E. PHILIPS, Cleveland, Ohio, assignor to The Stearns Conveyor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 2, 1921. Serial No. 457,847. 22 Claims. (Cl. 301—5.)



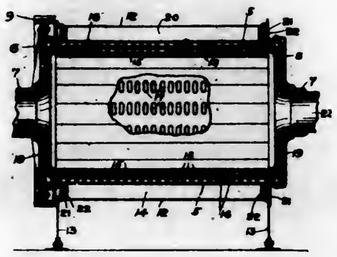
1. A hollow wheel comprising connected sheet metal members, each member having a disk-like web and an outwardly extending cupped portion formed at the hub, said cupped portions having their peripheral walls extending for some distance parallel with the axis of the wheel and a sleeve seated in the two cupped portions and contacting with the inner periphery thereof.

1,427,321. TRAP FOR FISH. HENRY PODOLSKY, San Francisco, Calif. Filed Mar. 24, 1921. Serial No. 455,081. 1 Claim. (Cl. 43—89.)



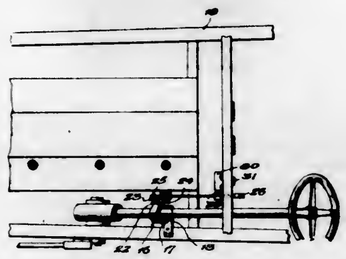
A trap for fish comprising a weighted hook, pivoted hooks carried thereby, means to cause the pivoted hooks to stand normally away from the weighted hook, a line connecting the upper portion of the pivoted hooks with the main fishing line, spring retaining means to hold the pivoted hooks extended from the weighted hook and in a fixed position with respect to the main line when swinging freely or adapted to release the pivoted hooks and allow them to swing toward each other when a fish engages the weighted hook.

1,427,322. DRY-PULVERIZING APPARATUS. RALPH E. H. POMEROY, Canton, Ohio. Filed June 30, 1920. Serial No. 393,147. 25 Claims. (Cl. 83—9.)



1. A pulverizing apparatus, comprising a rotatable casing having air inlet openings in its periphery, and a feeding inlet for the material an outlet for the air and pulverized material, mechanism for rotating said casing, and means for producing a current of air inward through said openings and outward through said outlet for carrying off the pulverized material.

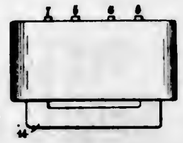
1,427,323. LOCK FOR AUTOMOBILES. WILLIAM S. PORTLOCK, Sr., Norfolk, Va. Filed Nov. 30, 1920. Serial No. 427,378. 3 Claims. (Cl. 70—90.)



1. The combination with a vehicle steering mechanism comprising a rotatable post of an angularly shaped split nut fixedly secured to said post, a contractible spring-metal band encircling said nut having one end held in fixed position and the other end free, said band being normally expanded to permit rotation of said post, a bell-crank lever having one arm connected to the free end of said band, a reciprocable operating rod operable from the driver's seat and connected to the other end of said lever, a lock, and means on the operating rod adapted to be engaged by the lock bolt to hold the operating rod in fixed position when it is moved to cause the band to bind the post, said band self-releasing said post when the lock bolt is thrown to release said rod.

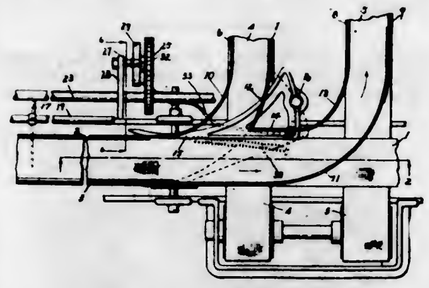
1,427,324. PROCESS FOR MANUFACTURING ELECTRIC TRANSFORMERS OF SMALL POWER. CHARLES MARIE EDOUARD PRIESTLEY, Paris, France, assignor to Société Vedovelli Priestley & Co., Paris, France. Filed Feb. 11, 1913. Serial No. 747,672. 1 Claim. (Cl. 175—21.)

A process of manufacturing electromagnets consisting in disposing the coils, terminals and core of the magnet within a mold, with the core and terminals projecting partly beyond the interior surface of the mold, injecting molten insulating material into the mold under pressure, so as to completely fill the interior thereof and thereby surround the coils and the portions of the core and terminals within said interior; and maintaining the pressure



on the injected material during solidification, whereby said coils, core and terminals are mechanically joined together by the solidified mass.

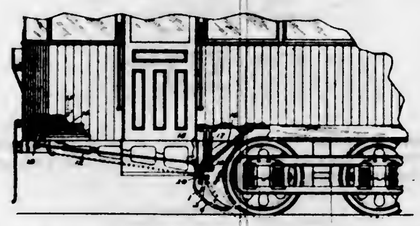
1,427,325. CONVEYER. BAUNNIE W. QUICK, Battle Creek, Mich., assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Filed Nov. 22, 1919. Serial No. 339,908. 6 Claims. (Cl. 198—81.)



1. In a structure of the class described, the combination of a main conveyer comprising a bottom belt and coacting side members, a pair of receiving conveyers disposed transversely of said main conveyer and comprising bottom belts and coacting side members, the upper reaches of the receiving conveyer belts being disposed below and transversely of the upper reach of the main conveyer belt, there being curved guide members extending from the side members of the main conveyer to the outer side members of the receiving conveyers, the front ends of the inner side members of said receiving conveyers being curved forwardly, a switch member pivotally mounted between said receiving conveyers to swing across the main conveyer to guide the articles on to the first receiving conveyer or to swing across and close the first receiving conveyer, a stop member mounted on a rock shaft at the side of the main conveyer to swing across the same in advance of said switch, a cam shaft provided with a cam for actuating said rock shaft, a switch actuating lever, a switch actuating cam, driving connections therefor to said stop member actuating cam shaft, a link support to be actuated by said switch actuating cam connected to said switch actuating lever, a link connecting said switch actuating lever to said switch, and a spring acting on said switch to yieldingly hold it in one position.

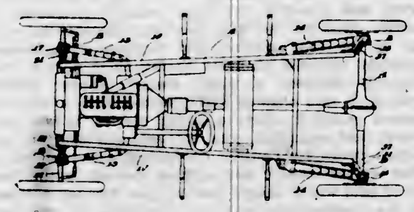
1,427,326. BRAKE MECHANISM. WILLIAM FRANCIS RAFFERTY, Toronto, Ontario, Canada. Filed Sept. 29, 1920. Serial No 413,633. 1 Claim. (Cl. 188—36.)

In brake mechanism, brake members comprising wedge shaped blocks, substantially arch shape in longitudinal section, said blocks being provided on their under sides with rail gripping studs and rail flanges and on their top sides being provided with wheel flange grooves, rods rigidly connecting the enlarged top ends of said brake members, a yoke secured to said rods, a rod pivoted centrally of said yoke and extending into the car, an operating lever pivoted to said rod and adapted on operation to move said brake members to and from their operative positions, vertically slotted brackets supported above said brakes, slotted links carried by said brake members and slidable in said brackets for guiding said



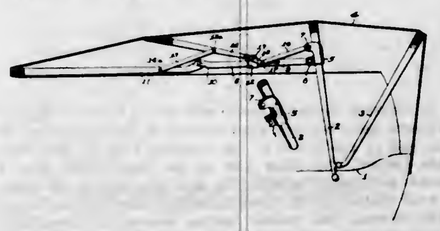
brake members in movement to and from their operative positions, the slots in adjacent ends of said brackets and said links having lateral extensions and a spring secured to the connections between said brakes and to the car body and exerting upward and rearward pressure on said brakes.

1,427,327. SHOCK ABSORBER. RAYMOND RAGSDALE, Porterville, Calif. Filed Mar. 8, 1920. Serial No. 363,955. 4 Claims. (Cl. 267—29.)



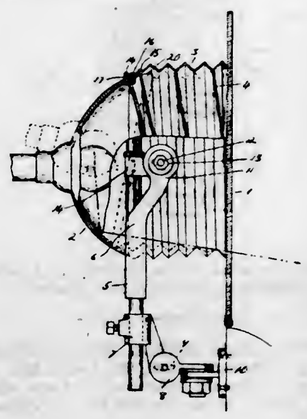
2. The combination with a vehicle chassis including a frame, front and rear axles, and leaf springs connecting the axles with the frame, of a shock absorber for the chassis including coil springs arranged in direct alignment with the axles at the point of attachment of the leaf springs thereto, brackets secured to the springs, an axle, coil springs secured to the brackets, laterally extending supporting arms secured to the vehicle frame and receiving the upper terminals of the coil springs, and bolts extending through the frame, and the attaching brackets and supporting arms.

1,427,328. VEHICLE TOP. EDGAR A. RATHBUN, Pontiac, Mich. Filed Jan. 31, 1921. Serial No. 441,235. 5 Claims. (Cl. 296—116.)



5. In a vehicle top framework, an articulation of bows, side arms and members permitting of the framework being raised and lowered, wherein a bow is pivotally mounted on a side arm, a connecting member having an end slidably supported adjacent the pivot of the bow, and a locking member pivotally connected to the bow and to said connecting member with the locking member so disposed that said bow may hold said connecting member against sliding relative to said side arm.

1,427,329. SPOTLIGHT. EDWARD W. REIBER, Adrian, Mich., assignor to The Reiber-Kolz Company, Adrian, Mich., a Corporation of Michigan. Filed Nov. 1, 1920. Serial No. 420,900. Renewed Jan. 20, 1922. Serial No. 530,729. 7 Claims. (Cl. 240—7.)



1. The combination with a transparent member, of a projector facing said member and movable relative thereto, a guard for enclosing the light rays from said projector to said transparent member, and a support for said projector having a universal pivotal connection arranged forward of said projector.

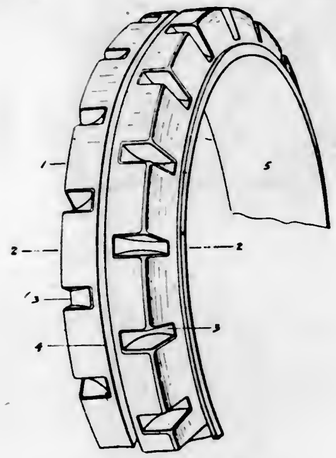
1,427,330. MANUFACTURE OF HOLLOW ARTIFICIAL TEXTILE ARTICLES. JULES ROUSSET, Nogent-sur-Marne, France. Filed May 8, 1922. Serial No. 559,491. 4 Claims. (Cl. 18—54.)

1. In the manufacture of hollow, artificial textile articles, the steps of incorporating in a spinnable viscous solution a substance which will give off gas bubbles in the articles after the latter have left the spinning head; and then spinning the resultant solution to form the articles.

1,427,331. RESILIENT VEHICLE TIRE. FREDERICK W. SHERWOOD, Brooklyn, N. Y., assignor to Kelly-Springfield Tire Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 21, 1920. Serial No. 432,306. 7 Claims. (Cl. 152—1.)

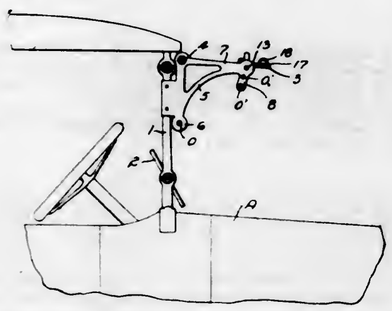
2. A resilient unitary tire structure formed on a metallic rim and having a transversely flat traction surface of greater width than its radial depth, a median channel of substantial depth in the tread adapted to divide the surface thereof into counterpart resilient members whereby lateral resiliency is obtained and whereby the resilient media of the opposed tread elements under lateral displacement in the zone of road contact will tend to constrict the channel, a plurality of traction notches in the opposite edges of the tire in spaced and

staggered relation with complementary opposed notches, said notches being in open intersection with the traction



surface and the sides of the structure and terminating short of intersection with the central channel.

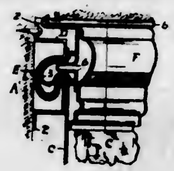
1,427,332. SUN SHIELD FOR AUTOMOBILES. WILLIAM F. SPRENGNETHER, St. Louis, Mo., assignor of one-half to Richard Pirkenson, St. Louis, Mo. Filed May 20, 1921. Serial No. 471,210. 2 Claims. (Cl. 296—95.)



2. A sun-shield for automobiles provided with brackets mounted on both sides at the front of the automobile, a shield pivotally mounted between said brackets, spring-controlled rods mounted on the shield and projecting outwardly from the ends thereof, said rods being adapted to enter openings in the brackets for holding the shield in position, means interposed between the rods for holding them against movement, and a lock for said holding means.

1,427,333. MEANS FOR HANGING WALL COVERINGS. JOHN D. STEPHENS, Pittsburgh, Pa. Filed Aug. 4, 1919, Serial No. 315,061. Renewed Jan. 28, 1922. Serial No. 532,504. 7 Claims. (Cl. 20—74.)

1. Means for hanging flexible wall coverings, comprising a molding adapted to be secured to the wall and provided with a longitudinally extending recess adapted to receive the edge of the wall covering, and a plurality of locking members provided with rearwardly bellied resilient portions adapted to be sprung into said molding



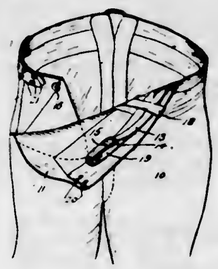
recess to enable the wall covering to be stretched and secured in place by the insertion of said locking members at intervals along said molding.

1,427,334. BOOKMARKER. GEORGE W. STONE, Moberly, Mo. Filed Mar. 29, 1922. Serial No. 547,942. 2 Claims. (Cl. 116—119.)



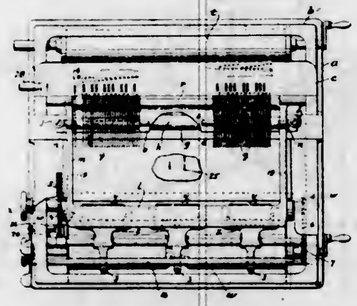
2. A line guide and place marker comprising an elongated body member adapted to rest on a sheet, downwardly and inwardly extending flanges carried by the opposite edges of the body member adjacent the outer edge of the body member and forming wedge shaped oppositely disposed channels having their narrow ends outwardly disposed, a wedge shaped member slidably mounted in said channel and provided with a centrally disposed enlarged aperture, a lug carried by the body member and extending into the enlarged aperture and forming means for limiting the inward movement of the wedge shaped member and a flange carried by the inner face of said wedge shaped member and forming a clamping jaw cooperating with the underface of the body member.

1,427,335. TROUSERS-SUPPORTING DEVICE. LUDWIG T. STRUCK, Washington, D. C. Filed July 20, 1921. Serial No. 486,033. 1 Claim. (Cl. 2—143.)



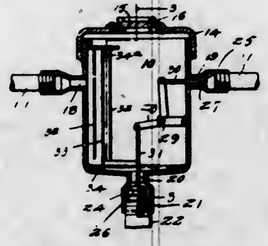
A trousers having a front wall which is free from the trousers body on one side thereof, a band attached at one end to the inside of the trousers body on the other side thereof, the other end of the band being free, a buckle adjustably mounted on said free end of the band, a hook carried by the trousers body on the first-mentioned side thereof, the buckle having means for detachable engagement thereof with the hook, and a separable connection between the free end of the fall and the first-mentioned side of the trousers body.

1,427,336. MACHINE FOR MAKING PERFORATED MUSIC ROLLS. ALBERT SUEHY, Jr., and ERNEST W. HOPPER, Philadelphia, Pa. Filed Jan. 6, 1921. Serial No. 435,405. 17 Claims. (Cl. 164—111.)



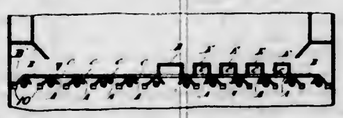
1. A machine for making perforated music rolls comprising a series of punches corresponding to the notes of a piano, punch actuating means, and a series of selectors corresponding to the punches adapted to be positioned manually to effect an operative connection between the punches and the punch actuating means, those selectors corresponding to the black keys of the piano keyboard and those corresponding to the white keys being differentiated from each other by differences in their length.

1,427,337. GAS RECLAIMER. HALDER E. TRACY, Middletown, Ohio. Filed May 2, 1921. Serial No. 466,349. 6 Claims. (Cl. 123—119.)



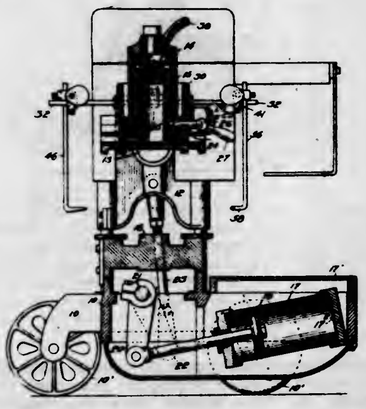
2. An oil reclaimer for explosion engines having a reservoir provided with inlet and outlet ports for communication respectively with a crank case and a suction line exposed to sub-atmospheric pressure, a drain port for communication with the crank case to permit reclaimed oil to return to said crank case, a baffle arranged in the reservoir between said inlet and outlet ports for intercepting oil spray, and connected valves for respectively controlling said outlet port and drain port and respectively movable from and toward their seats by sub-atmospheric pressure in the suction line.

1,427,338. ROTARY FURNACE GRATE. LÉON TRÉFOIS, Brussels, Belgium. Filed Mar. 4, 1920. Serial No. 363,329. 3 Claims. (Cl. 126—182.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A rotary furnace grate comprising a plurality of concentric perforated grate rings, said rings being provided with downwardly projecting means for discharging ashes therefrom, mechanism for rotating adjacent rings in opposite directions relatively to each other, and an auxiliary grate over each perforation in said grate rings and movable with its respective grate ring in a circular path through the under surface of the fire bed, said auxiliary grate comprising a foraminous casing having an end opening which faces the direction of rotation thereof.

1,427,339. MOLDING MACHINE. HENRY TSCHERNING, Freeport, Ill., assignor to Arcade Manufacturing Company, Freeport, Ill., a Corporation of Illinois. Filed Feb. 7, 1921. Serial No. 443,057. 8 Claims. (Cl. 22—32.)



4. The combination with a flask-supporting inverting head of a molding machine, of transverse shafts mounted in the head to move bodily in parallel vertical planes, flask engaging members carried by said shafts, respectively, and means for manually raising and lowering said shafts with respect to the head.

1,427,340. SELF-LUBRICATING LEAF SPRING. WILLIAM H. WOODMAN, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 13, 1919. Serial No. 323,589. 5 Claims. (Cl. 267—50.)

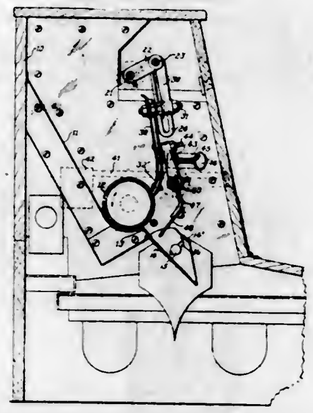


1. A self-lubricating spring comprising a plurality of superimposed spring-leaves and layers of fibrous material impregnated with a hardened phenolic condensation product containing a lubricant disposed between the leaves.

1,427,341. FEEDER. LESLIE I. ZIEGLER, Indianapolis, Ind., assignor to Nordyke & Marmon Company, Indianapolis, Ind., a Corporation of Indiana. Filed Aug. 12, 1920. Serial No. 403,105. 4 Claims. (Cl. 83—44.)

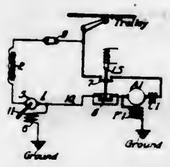
1. A feeder comprising an inclined hopper wall, a rotatable drum arranged in conjunction with the lower part of said wall, a gage plate associated with said drum

in opposition to the hopper wall and provided with a lower edge lying at a greater angle to the roller than the upper part of the gage plate, means for pivotally suspending said gage plate, means for vertically adjusting the suspension means, a rock shaft arranged materially



below the suspension means, a pressure arm carried by the rock shaft and engaging the gage plate to urge it toward the roller, yielding means for holding said pressure arm in contact with the gage plate, and a baffle plate suspended in the line of delivery from the roller.

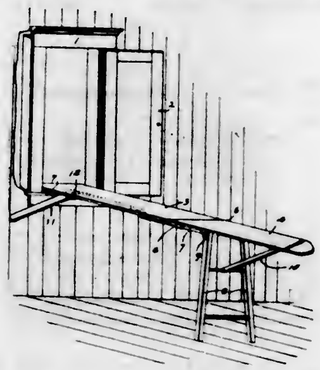
1,427,342. SYSTEM OF CONTROL. BASCUM O. AUSTIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1919. Serial No. 328,847. 21 Claims. (Cl. 172—179.)



2. In a system of control, the combination with a main dynamo-electric machine, of a controlling device therefor, a switch for effecting certain main-machine connections, an auxiliary dynamo-electric machine for actuating said device, and means governed by said switch for regulating the operation of said auxiliary machine.

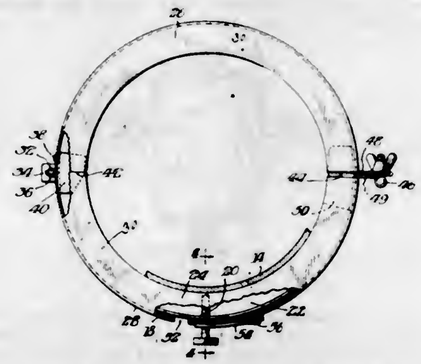
1,427,343. CABINET IRONING BOARD. WILLIAM P. BALLARD and WILLIS D. PERRY, Imbler, Oreg. Filed Aug. 11, 1921. Serial No. 491,484. 3 Claims. (Cl. 68—10.)

1. An ironing board comprising inner and outer sections having their abutting ends beveled and disposed so that the beveled end of the outer section underlaps the beveled end of the inner section, a reinforcing plate secured to the under side of the inner secton and overlapping the



joint formed between the two sections, and links pivotally connecting the outer section to said reinforcing plate.

1,427,344. WEATHER-PROTECTING RING FOR STREET LAMPS. WILLIAM G. BARCLAY, Chicago, Ill., assignor to Erick Blaine Thelin, Chicago, Ill. Filed Mar. 20, 1920. Serial No. 367,526. 1 Claim. (Cl. 240—115.)

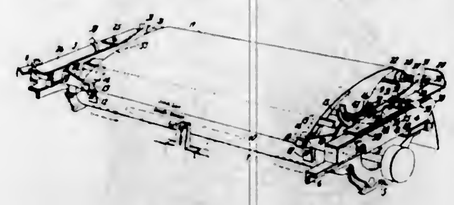


A protecting ring for globes of street lamps comprising two abutting segments, each segment having two separate walls only at right angles to each other, one of said parts being an inwardly turned horizontal top flange and the other a downwardly turned vertical flange, a hinge between two opposite segment ends permitting horizontal swinging of one segment with reference to the other, a fastening device for the other two segment ends and means in the side flanges of the segments for detachably securing the device to the globe fastenings.

1,427,345. TYPEWRITING MACHINE. HARRY BATES, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 25, 1919. Serial No. 279,121. 12 Claims. (Cl. 197—180.)

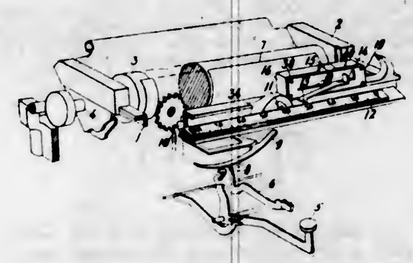
1. In a front-strike typewriting machine, the combination with a traveling carriage and a revoluble platen therein, of a flexible device adapted to screen the part of a work-sheet above the printing point on the platen, and so positioned as to permit the typist seated at the machine to read the written line at the printing point, a

mounting for said device pivoted at the rear of the carriage, a spring normally tending to swing the device clear of the carriage on its mounting to ineffective position,



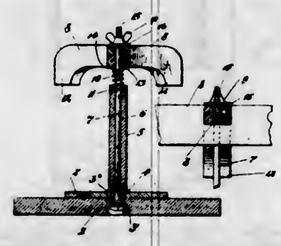
and detaining means adapted to hold the device against said spring in either of two screening positions to permit the typist to have a more or a less extended view of the written work-sheet.

1,427,346. TYPEWRITING MACHINE. HARRY BATES, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 16, 1919. Serial No. 331,037. 8 Claims. (Cl. 197—190.)



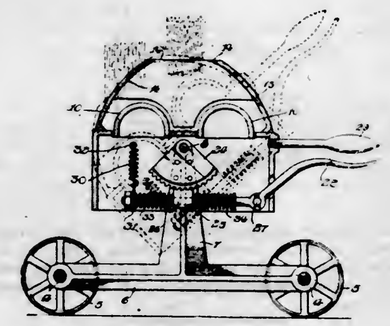
1. In a typewriting machine, the combination with a traveling platen carriage and a scale, of a pointer on the carriage adapted to indicate letter-spaces on the scale, a second pointer on the carriage adapted to indicate letter-spaces on the scale, a spring normally tending to draw said second pointer along the carriage, and an escapement device adapted to permit the second pointer to be drawn along.

1,427,347. CAN HOLDING AND SEALING DEVICE. JOHN BAUDER, Cincinnati, Ohio. Filed Sept. 20, 1921. Serial No. 502,084. 5 Claims. (Cl. 53—1.)



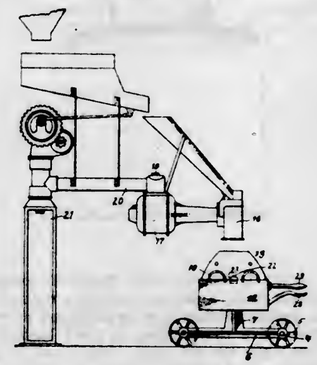
1. In a device of the character described, a base, an upwardly extending hollow post attached thereto, a rod extending through said hollow post, a spring around said rod at the top of the post, arms, said arms resting upon the top of said spring, the rod passing therethrough and means for exerting pressure upon the spring by forcing said arms downwardly.

1,427,348. MOLDING APPARATUS FOR FOUNDING. ELMER O. BEARDSLEY, Chicago, and WALTER F. PIPER, Oak Park, Ill., assignors to The Beardsley & Piper Company, Chicago, Ill., a Corporation of Illinois. Filed July 21, 1921. Serial No. 486,545. 14 Claims. (Cl. 22—36.)



1. In apparatus for making moulds, the combination of a support, a flask on said support and means for sustaining the flask so the flask may be tilted relatively to a constant direction of projected sand so that such sand will be projected into the flask at different angles and will be packed in undercut or otherwise inaccessible spaces in the flask.

1,427,349 METHOD OF FILLING MOLDS FOR FOUNDING. ELMER O. BEARDSLEY, Chicago, and WALTER F. PIPER, Oak Park, Ill., assignors to The Beardsley & Piper Company, Chicago, Ill., a Corporation of Illinois. Filed July 21, 1921. Serial No. 486,546. 4 Claims. (Cl. 22—197.)
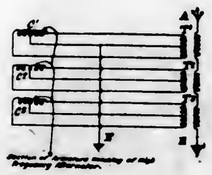


1. That improvement in making molds which consists in projecting sand in a constant direction, and tilting a flask into different positions relatively to the line of projection and projecting the sand directly into undercut and otherwise inaccessible spaces in the flask.

1,427,350. RADIOTELEGRAPHIC COUPLING. JOSEPH BETHENOD, Paris, France. Filed Sept. 2, 1919. Serial No. 321,259. 1 Claim. (Cl. 250—17.)

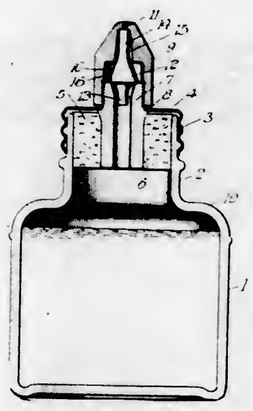
A radio-telegraphic station comprising, in combination, a high frequency alternator in which the armature winding is divided into several sections not comprising between their ends any direct electric connection, each of

these sections being connected directly to one of the primary windings of a complex of transformers magnetically independent of each other, the central point of each section of the alternator and the central point



of each primary winding being earthed and the secondary windings of these transformers being connected in a suitable manner to the transmitting antenna, the number of the transformers being equal to that of the sections of the armature.

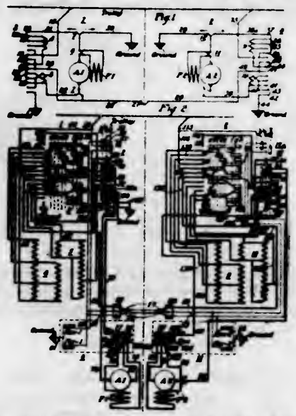
1,427,351. CONTAINER FOR MERCURY. WALTER H. BOWMAN, Chicago, Ill., assignor to Goldsmith Bros. Smelting & Refining Co., Chicago, Ill., a Corporation of West Virginia. Filed Feb. 1, 1922. Serial No. 533,271. 2 Claims. (Cl. 215—74.)



1. A receptacle of the class described comprising an open-mouthed body, a stopper having a central aperture, a tubular element fitting said aperture and provided with a shoulder above the stopper, a cover having threaded engagement with the receptacle and arranged to engage the shouder on said tubular element, a hollow cap having threaded engagement with the upper end of said tubular element, said cap being provided with a perforation, and a valve in said cap adapted to seat at both the said perforation in the cap and at the end of said tubular element.

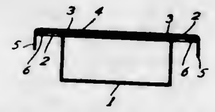
1,427,352. SYSTEM OF CONTROL. WILLIAM G. BROOKS, Chicago, Ill., and LYNN G. RILEY, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 28, 1919. Serial No. 341,017. 8 Claims. (Cl. 172—179.)

1. A system of train-control for a plurality of vehicles comprising a driving motor on each vehicle, and means for effecting series-parallel operation and reversal of said motors, said means embodying a single train-line



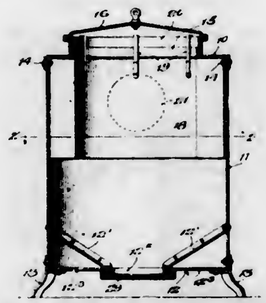
conductor carrying motor current and a plurality of relatively small-capacity conductors.

1,427,353. BAG LOCK. WILLIAM L. CALIGAN, Waterbury, Conn., assignor to Robert N. Bassett Company, Inc., Derby, Conn., a Corporation of Connecticut. Filed Apr. 11, 1922. Serial No. 551,733. 2 Claims. (Cl. 70—2.)



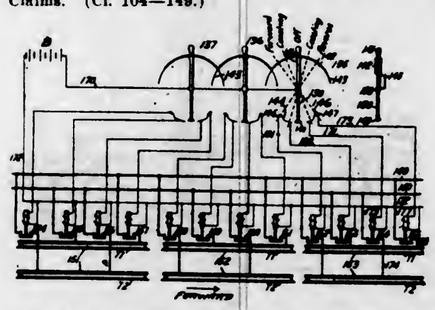
1. In a bag lock the combination of a lock having a top plate, a face plate enclosing said top plate and having adjacent to its ends, lugs formed integral therewith and bent over so as to engage the lower face of said top plate and hold it in position, and additional lugs adapted to secure the combined lock casing and face plate to a bag frame.

1,427,354. STOVE. RONALD ELISON CAMPBELL, Columbia, S. C. Filed Jan. 10, 1920. Serial No. 350,586. 3 Claims. (Cl. 126—65.)



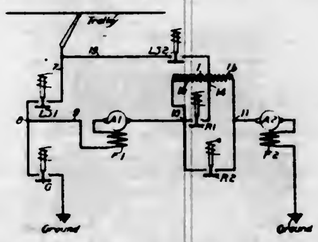
1. In a stove of the class described, in combination, a combustion chamber elongated in horizontal cross section, such chamber having an opening in its top for the introduction of fuel and a longitudinal central slot or opening in its bottom for the removal of ashes, two flat fuel supporting plates extending longitudinally of said chamber one on each side of said opening and inclined downwardly toward the same, and an elongated sliding door for controlling the passage of ashes through said opening.

1,427,355. SYSTEM OF CONTROL. ANDREW H. CANDEE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 13, 1917. Serial No. 196,411. 23 Claims. (Cl. 104—149.)



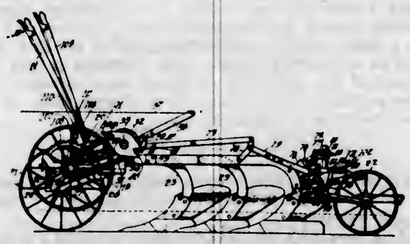
1. In a system of control, the combination with a plurality of independent distribution-circuit sections, of a plurality of switching devices corresponding to the respective sections for reversing the polarity thereof individually, and means for preventing the relative reversal of polarity of predetermined sets of sections.

1,427,356. SYSTEM OF CONTROL. ANDREW H. CANDEE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1919. Serial No. 328,842. 7 Claims. (Cl. 172—179.)



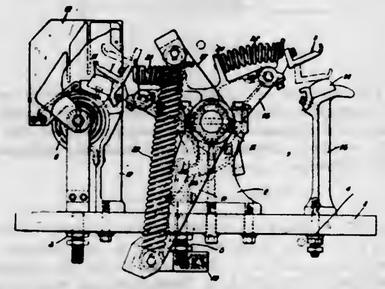
1. In a system of control, the combination with a plurality of dynamo-electric machines and an accelerating resistor, of means comprising five switches for effecting series-parallel operation of the machines including unequal exclusions of resistor sections during series operation and equal distribution of the resistor in the motor circuits for parallel operation.

1,427,357. PLOW. ROBERT C. CAUGHEY, Dixon, Ill., assignor, by mesne assignments, to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed July 31, 1915, Serial No. 42,965. Renewed Nov. 12, 1921. Serial No. 514,824. 8 Claims. (Cl. 97—55.)



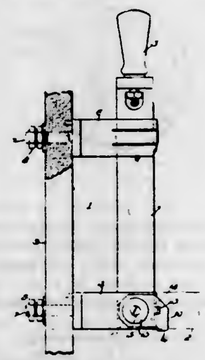
1. In a power lift plow, the combination of a multiple beam plow frame, a forward and downward projecting toggle crank rotatably mounted in said frame, a ground wheel journaled on the swinging end of said crank, a member rotatably mounted on said crank on an axis parallel with and spaced apart from the crank axis and the wheel axis, driving means connecting said wheel and member and including a clutch mounted on and swinging with said crank for effecting successive, intermittent, unidirectional rotary movements of said member, and means operated by said member for swinging it and rotating said crank in said frame to effect relative vertical movement of said wheel and the front end of said frame.

1,427,358. CIRCUIT INTERRUPTER. GEORGE L. CHRISTMAN, Swissvale, and JOHN B. MACNEILL, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1918. Serial No. 254,223. 6 Claims. (Cl. 200—2.)



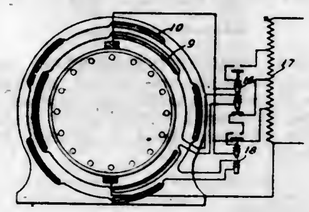
1. A switch comprising stationary contact members, a movable operating member and asynchronously movable co-operating contact members for said stationary contact members movably mounted on said operating member to permit the engagement of one of said movable contact members with its co-operating stationary contact member before the disengagement of another of said movable contact members from its co-operating stationary contact member.

1,427,359. KNIFE-BLADE SWITCH. GEORGE L. CHRISTMAN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 30, 1920. Serial No. 355,047. 8 Claims. (Cl. 200—169.)



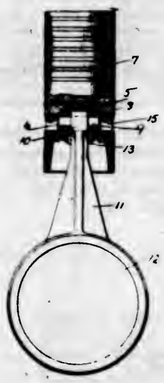
3. In a knife-blade switch, the combination with a knife-blade member and a pivot terminal member therefor, of a member secured to said terminal member and having a stirrup portion extending across the path of the blade member to position the latter.

1,427,360. SINGLE-PHASE DYNAMO-ELECTRIC MACHINE OF THE INDUCTION TYPE. LEWIS WARRINGTON CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,447. 6 Claims. (Cl. 172—274.)



2. The method of accelerating an induction motor which comprises actuating the accelerating switching apparatus in accordance with the development of the forwardly rotating components of the harmonic components of the fundamental primary field.

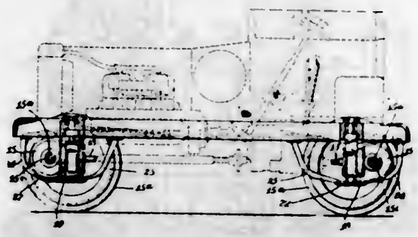
1,427,361. KNUCKLE-JOINT CONNECTION. FREDERICK F. COUCH, New Brunswick, N. J., assignor, by mesne assignments, to Brunswick-Kroeschell Company, New Brunswick, N. J., a Corporation of New Jersey. Filed July 6, 1921. Serial No. 482,649. 5 Claims. (Cl. 74—108.)



1. A knuckle joint connection for pistons and rods comprising a cylindrical knuckle loosely received in a transverse bore in the piston, and a pin passed through one end of the rod and received in a bore formed in the knuckle at right angles to the longitudinal axis of the knuckle.

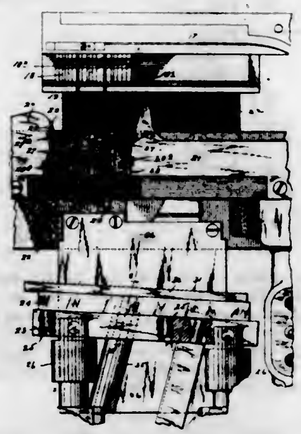
1,427,362. AXLE MOUNTING FOR VEHICLES. FRED H. COZZENS, New York, N. Y. Filed July 22, 1920. Serial No. 398,194. 3 Claims. (Cl. 180—50.)

1. In a vehicle, in combination, a vehicle frame, an axle, an upper thrust bearing on the upper side of the axle, a kingpin fitted to the thrust bearing and connecting the same to the frame, a lower thrust bearing on the underside of the axle, a riding shoe below the lower thrust



bearing, means carried by the vehicle frame to support the riding shoe, and a kingpin connecting the lower thrust bearing and the riding shoe.

1,427,363. MEANS FOR CASTING ITALIC TYPE. GEORGE L. CURLE, Minneapolis, Minn. Filed Apr. 7, 1920. Serial No. 371,999. 4 Claims. (Cl. 199—50.)

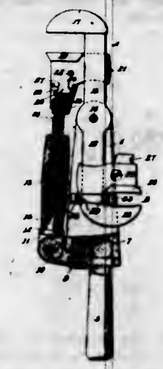


1. In a linotype machine, the combination with a mold, of vise jaws associated with the mold and having matrix engaging faces that are oblique to the mold, and a space band justification bar having a supplemental shifting section formed with serrated driving surfaces that are at a right angle to the oblique faces of the said jaws, and an oblique bar shifting guide operative on said supplemental bar section to cause the same to move on a line parallel to the oblique faces of said jaws, in the line justifying action.

1,427,364. WRENCH. JOHN DOBRZANSKI, Mollenawer, Pa. Filed Mar. 8, 1922. Serial No. 542,088. 6 Claims. (Cl. 81—53.)

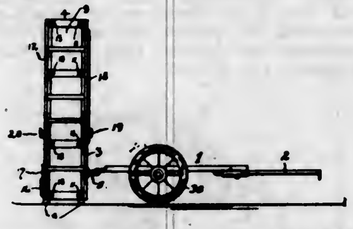
1. A wrench of the class described including a supporting structure, a pair of oppositely extending rigidly connected wrench units revolubly mounted on said supporting structure and each including a shank having a slidable

adjustable inner jaw and a rigid outer jaw, a single adjusting means carried by said supporting structure, and



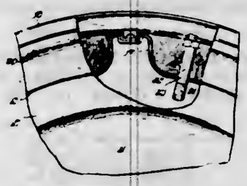
means to operatively connect either one of said adjustable inner jaws to said adjusting means.

1,427,365. VEHICLE TRAILER. ELIZABETH J. DOUGLAS, Crete, Nebr. Filed Aug. 8, 1921. Serial No. 490,452. 2 Claims. (Cl. 296—23.)



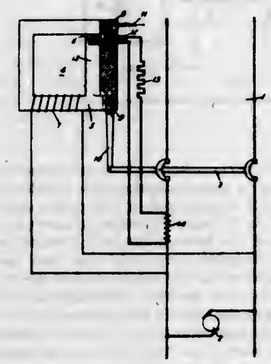
1. In combination, a chassis provided with wheels, a box including a bottom, an end plate provided with shoes and rigidly mounted upon the bottom, a pair of side plates, and a cover, said box being mounted between its ends upon and normally supported by the chassis and adapted to have a swinging movement to an upright position to dispose the shoes of its end-plate upon the ground, the side-plates having such a connection with the bottom that they may be swung into line with the bottom, and said cover having such a connection with one of the side-plates that it may be swung into line with the pair of side-plates and said bottom.

1,427,366. DISK WHEEL. GEORGE H. FORSYTH, Chicago, Ill. Original application filed Nov. 26, 1918, Serial No. 264,253. Divided and this application filed Feb. 21, 1921. Serial No. 446,862. 3 Claims. (Cl. 301—63.)



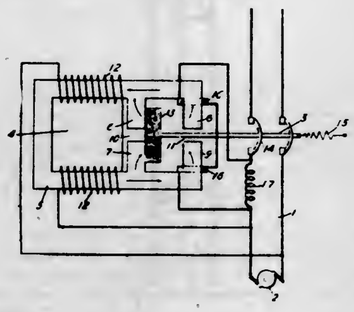
3. The combination of a wheel having a disk body, a felly, a tire-carrying rim, and a tire having a valve stem, the disk body having formed therein a depression spaced from the felly and extending across the median plane of the wheel and including the valve stem axis, that part of the disk body forming the upper wall of the depression apertured and the valve stem extending therethrough into the pocket to render the same accessible.

1,427,367. CIRCUIT INTERRUPTER. CHARLES LE G. FORTESCUE, Pittsburgh, and FREDERIC C. HANKER, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 17, 1918. Serial No. 258,554. 22 Claims. (Cl. 175—294.)



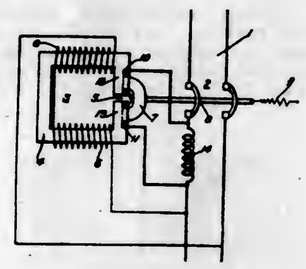
12. In an electric circuit, the combination with a circuit interrupter, of an electromagnet comprising a core member and an armature member, means for energising the core member and means disposed around the armature member for deflecting the magnetic flux therefrom in anticipation of a sudden overload on the circuit.

1,427,368. CIRCUIT INTERRUPTER. CHARLES LE G. FORTESCUE and JOHN B. MACNEILL, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 17, 1918. Serial No. 258,555. 17 Claims. (Cl. 175—294.)



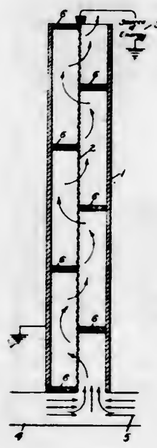
1. In a circuit interrupter, the combination with a movable contact member, of an actuating electromagnet therefor comprising a core member having two magnetic paths, a shunt winding for energising the core member, an armature for normally completing the circuit of one magnetic path, and a controlling winding associated with the other path for so energising the same as to shift the flux thereto and permit the armature to complete the circuit thereof.

1,427,369. CIRCUIT INTERRUPTER. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 17, 1918. Serial No. 258,579. 7 Claims. (Cl. 175—294.)



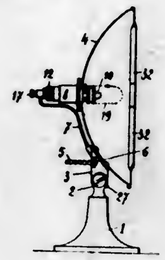
1. In an electric circuit, the combination with an interrupter, of a magnetizable core member having an air gap therein, a potential winding for energizing the core member, an armature directly connected to the movable member of the interrupter and adapted to normally complete the magnetic circuit of the core member, and a winding connected to the circuit and so disposed around portions of the core member, circumferentially of those portions of its surface which are engaged by the armature, as to deflect the magnetic flux of the core member through the air gap to permit the interrupter to be opened quickly, under predetermined conditions.

1,427,370. APARATUS FOR ELECTRICAL PRECIPITATION. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 15, 1919. Serial No. 277,349. 6 Claims. (Cl. 183—7.)



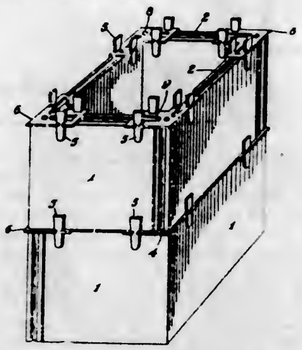
1. In a device for electrically precipitating suspended particles from fluid streams, an electrode formed as a treating chamber, a foraminous ionizing electrode positioned therein, and stream-directing means comprising a plurality of baffles so arranged that the fluid stream is brought into ionizing relation with the ionizing electrode several times during its passage through the treating chamber.

1,427,371. RADIATOR FOR GAS HEATING BY INCANDESCENCE. ANDRÉ GARBARINI, Courbevoie, Seine, France. Filed Apr. 22, 1922. Serial No. 556,111. 6 Claims. (Cl. 126—92.)



1. A radiator for gas heating by incandescence comprising: a parabolic mirror; a device to carry this mirror; a gas mantle of the inverted type disposed at the focus of the parabolic mirror; a burner with refractory nozzle fixed at the middle of the mirror; lugs on the said refractory nozzle; claws on the mantle holding ring to engage the said lugs; elastic means to hold the claws exactly flatwise against the lugs of the nozzle.

1,427,372. FIREPROOF WALL. WILLIAM GERAERDTS, New York, N. Y. Substitute for abandoned application Serial No. 221,596, filed Mar. 11, 1918. This application filed Oct. 18, 1921. Serial No. 508,458. 2 Claims. (Cl. 72—103.)



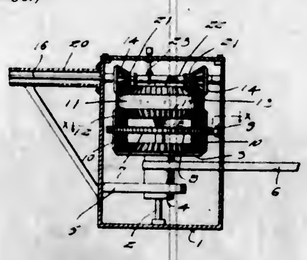
1. A device for joining partition blocks and like structural members, consisting in an anchor member adapted to be inserted between such structural members and to project beyond the surfaces thereof and having raised portions to space the structural members apart and having openings in its parts which project beyond the surfaces of the structural members, and clamping members adapted to be held in said openings and to bear against the surfaces of the adjacent structural members.

1,427,373. MULTIPLE SOUND-RECORD TABLET. CHARLES H. GILL, Chicago, Ill. Filed Dec. 10, 1919. Serial No. 343,945. 4 Claims. (Cl. 274—42.)



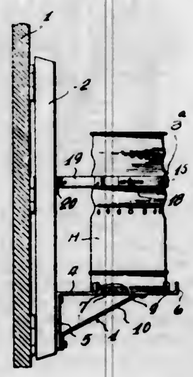
2. In a multiple sound record tablet, the combination of a central supporting disk, a central and internally threaded opening through said supporting disk, two separate record carrying disks provided with central openings through them, circular depressions in said record carrying disks surrounding said openings through said disks, circular plates adapted to fit into said depressions and threaded collars upon each of said plates adapted to secure one of said record carrying disks upon each side of the said central supporting disk.

1,427,374. GEARING. ERNEST GLASS, Reading, Pa. Filed Aug. 8, 1921. Serial No. 490,622. 4 Claims. (Cl. 74—54.)



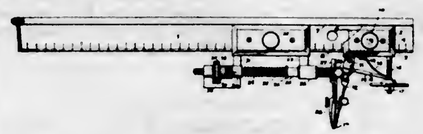
1. In gearing of the character specified, a drive shaft, means for imparting an intermittent reverse rotary movement to the drive shaft, a gear wheel rotatable with the drive shaft, a rotary member in axial line with the drive shaft, a ratchet clutch between the rotary member and drive shaft, a gear element having toothed engagement with said rotary member and gear wheel, a rotary support for the gear element loosely mounted in axial line with the rotary member and gear wheel and a ratchet connection for holding said support stationary on the rotation of the drive shaft in one direction and during the slipping action of the clutch connection between the said rotary member and drive shaft.

1,427,375. HEATER SUPPORT. RANSOM E. GOVE, Fond du Lac, Wis. Filed Oct. 3, 1921. Serial No. 504,932. 1 Claim. (Cl. 248—20.)



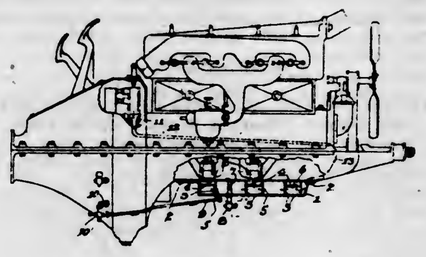
A supporting bracket for car heaters comprising a pair of parallel horizontal bars bent downwardly at their rear ends for attachment to a support, the front ends of said bars being bent upwardly to form heater folding fingers, and a pair of crossed bars whose end portions extend outwardly across said horizontal bars, said crossed bars being secured to said horizontal bars and having their ends bent upwardly to form additional heater holding fingers.

1,427,376. TRAMMEL POINT. HENRY S. GRACE, San Francisco, Calif., assignor to J. J. McDonald, San Francisco, Calif. Filed Nov. 17, 1920. Serial No. 424,651. 2 Claims. (Cl. 33—159.)



1. In a beam compass, the combination of a beam, a stationary point carried thereby, a movable point, and means for regulating the distance of the second point from the first point, which means comprises a holder slidable upon the beam, bearings carried by the holder, a bar movable longitudinally in the bearings and having one end portion thereof formed angular in cross section, one of said bearings being of angular form to receive the angular portion so as to prevent turning of said bar, said bar being provided with screw threads at its other end portion, an adjusting nut turned on the screw threaded portion of the bar, means for preventing longitudinal movement of the nut, said bar where angular being graduated on one face, every one-thirty-second of an inch, on another face every one-sixteenth of an inch, and on another face, one-sixty-fourth of an inch, said screw-threaded portion having forty screw threads to the inch and a cylindrical portion on the nut on which there are twenty-five graduations.

1,427,377. OIL PAN. GLENN F. GRAVES, Centralia, Kans. Filed Aug. 8, 1921. Serial No. 490,794. 4 Claims. (Cl. 184—13.)



1. The combination of an oil pan having a plurality of transverse partitions arranged in pairs, elevated arcuate floors arranged between and supported by said adjacent pairs of partitions, and a drain pipe having its open mouth level with the top of said partitions, said partitions and floors having openings to permit passage of oil.

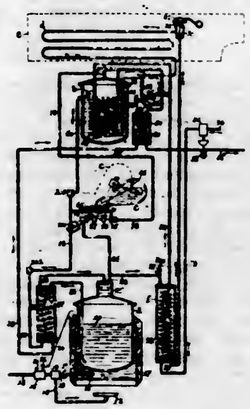
1,427,378. COMPOSITION OF MATTER PRODUCED FROM CORNCOBS. PAUL GRUBER and HARRISON C. BASHIOUM, Pittsburgh, Pa.; said Bashioum assignor to said Gruber. Filed Oct. 18, 1920. Serial No. 417,710. 11 Claims. (Cl. 106—36.)

1. A composition of matter used as a substitute for lumber comprising a pulp produced from corncobs, and a casein binder, pressed into shape and dried.

1,427,379. REFRIGERATING APPARATUS. CHARLES W. HAPGOOD, Boston, Mass. Filed Nov. 22, 1916. Serial No. 132,889. 14 Claims. (Cl. 62—5.)

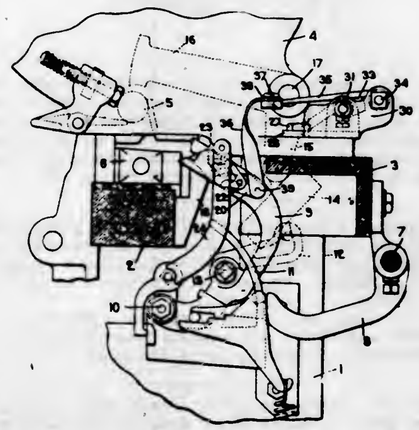
1. In a refrigerating system, in combination, a generator, an absorber separate from said generator, an ex-

pansion chamber between said generator and absorber and connected therewith for the flow of refrigerant from the generator to the absorber through said expansion chamber, and an expansion valve governing the flow of refrigerant to the expansion chamber and responsive to temperature changes in the refrigerated space means for connecting said generator with said absorber for the flow of weak liquor from said generator to said absorber, a vessel connected with absorber and with said generator for the in-



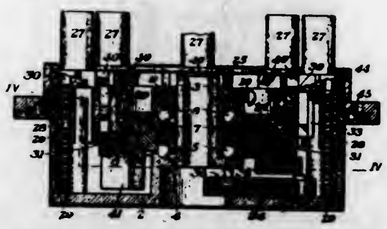
termittent flow of strong liquor from the absorber to the said vessel and from said vessel to said generator, means for controlling said intermittent flow of strong liquor, means for connecting said vessel with said absorber and generator for the passage of fluid pressure from said generator to said vessel and from said vessel to said absorber, and equalizing valves controlling said fluid pressure and arranged to have either of said valves closed before the other is opened.

1,427,380. FILLING CLAMPING AND PARTING MEANS FOR LOOMS. HENRY J. HEDLER, Occum, Conn., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 16, 1921. Serial No. 485,383. 6 Claims. (Cl. 139—85.)



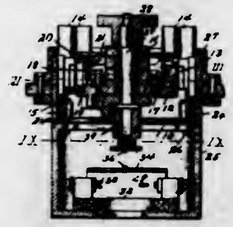
1. An automatic filling replenishing loom comprising a frame, a lay, a magazine for the supply of fresh filling carriers, means for transferring a fresh filling carrier from the magazine to the lay, a support movable toward and from the lay, filling clamping and parting means mounted on the support, an actuator movably mounted on the frame and moved by or through the operation of the transferring means, and a flexible connector extending between and attached to the actuator and the filling clamping and parting means to effect the operation of the latter upon the operation of the transferring means.

1,427,381. PERMUTATION MECHANISM. JESSE B. HELLER, Wilkinsburg, Pa., assignor, by mesne assignments, to National Motor Control Co., a Corporation of Delaware. Filed June 2, 1919. Serial No. 301,319. 11 Claims. (Cl. 70—54.)



1. Permutation mechanism, comprising a driven member, actuating members, co-operative devices between the actuating members and the driven member for moving the driven member step by step to its operative position when actuated in proper order, and means for moving the driven member backward step by step when any one of said actuating devices is moved out of order, substantially as described.

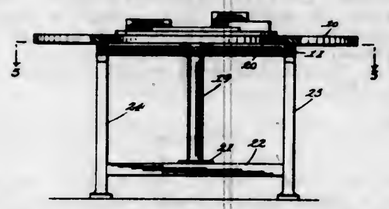
1,427,382. PERMUTATION LOCK. JESSE B. HELLER, Lakewood, Ohio, assignor to National Motor Control Co., a Corporation of Delaware. Filed Feb. 28, 1920. Serial No. 362,167. 6 Claims. (Cl. 70—54.)



1. A permutation lock, comprising a spindle, a combination wheel on the spindle, a return wheel, means for moving the combination wheel step-by-step from zero when operated in a prearranged order and for operating the trip wheel, actuating connections between the trip wheel and combination wheel, a latch device for the spindle, and means actuated by the combination wheel when moved a predetermined distance from zero to release said latch, substantially as described.

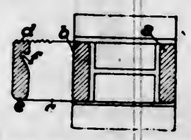
1,427,383. TABLE. ALBERT HEMSHEWSKI, Coal Valley, Ill., assignor of one-fifth to Egnaty Shumilo, Neffs, Ohio. Filed Sept. 15, 1920. Serial No. 410,354. 1 Claim. (Cl. 45—26.)

A table of the character described comprising a round top plate having a central opening, a square support for said top plate, cross-braces connecting the sides of said square support, a central supporting ring, a bearing carrying said ring and provided with an opening formed at the inner meeting ends of said braces, an auxiliary table plate, a leg secured to the underside of said auxiliary table plate, legs for said square support, lower braces for said legs adapted to have the lower end of said leg of the



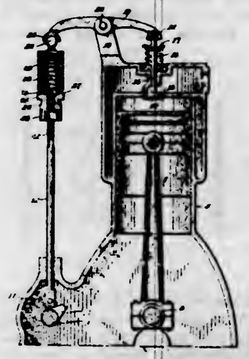
auxiliary table journaled therein, said auxiliary table adapted to carry dishes and to be gripped by hand at its periphery projecting above the top plate for rotating said auxiliary table and the dishes thereon for bringing any of said dishes in front of a person at the round top plate.

1,427,384. WALL-CLIMBING DEVICE. CARL HENNEKING, Magdeburg, Germany. Filed Oct. 30, 1920. Serial No. 420,805. 2 Claims. (Cl. 228—46.)



1. A wall-climbing device consisting of a building stone formed of stoneware and having a U-shaped front portion of rectangular cross-section integral therewith and adapted to project from the wall thereby to provide a foot rest and handle.

1,427,385. VALVE-OPERATING MECHANISM. HARRY W. HERMAN, Cleveland, Ohio. Filed Mar. 2, 1920, Serial No. 362,765. Renewed Feb. 16, 1922. Serial No. 537,122. 6 Claims. (Cl. 123—90.)

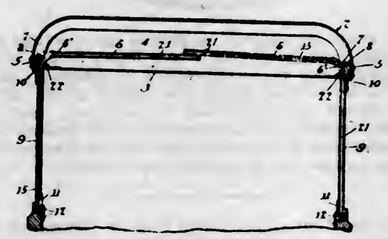


1. In a valve operating mechanism for engines, a slidably mounted push rod, an operating cam for said push rod, a pivotally mounted operating lever, a spring seated valve having a slidably mounted stem pivotally associated with one end of said operating lever, an inverted cup pivotally associated with the other end of said operating lever, a sleeve adjustable longitudinally on one end of said push rod and snugly slidably telescoped into said cup, and a compression spring within said sleeve yieldingly maintaining constant contact between the push rod and its said operating cam.

1,427,386. PROCESS FOR THE TREATMENT OF WASTE SULPHURIC ACID. SIEGFRIED HILPERT, Bonn-on-the-Rhine, Germany, assignor to Himself and Deutsch Luxemburgische Bergwerks-Und Hütten Aktiengesellschaft, Bochum, Germany. Filed July 9, 1921. Serial No. 483,605. 3 Claims. (Cl. 260—7.)

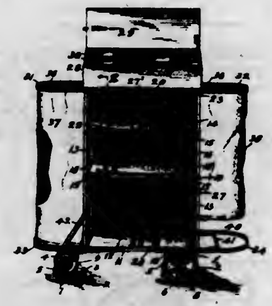
1. Process for the recovery of resinous products from the waste occurring in the purification of the light oils of coal tar by sulphuric acid consisting in dissolving the resinous constituents in an aromatic hydrocarbon.

1,427,387. VEHICLE. JAMES ENSLEY HIXSON, Los Angeles, Calif., assignor to Martin A. Leach, Los Angeles, Calif. Filed Mar. 3, 1919. Serial No. 280,506. 3 Claims. (Cl. 296—140.)



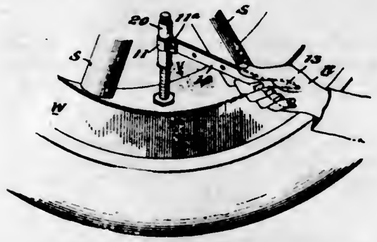
1. In a vehicle, the combination of a body, a top frame for the body, guides in the top fastened at their outer ends to the side members of the frame and extending crosswise thereof, the outer end portions of the guides being curved downwardly adjacent the frame side members, other guides alined with the curved ends of the first named guides and secured at their upper ends to the frame side members and at their lower ends to the body, rods extending beneath the first guides parallel with the side members of the frame and secured to said members and spaced therefrom, a lining fastened at its side margins to the rods and at its end margins to the end members of the frame, and curtains shiftable between the guides and through the spaces between the frame side members and rods.

1,427,388. SERVICE WAGON. WILLIAM V. HOLLEY, New York, N. Y., assignor to New York Bath Manufacturing Co., a Corporation of New York. Filed Mar. 9, 1920. Serial No. 364,587. 3 Claims. (Cl. 280—50.)



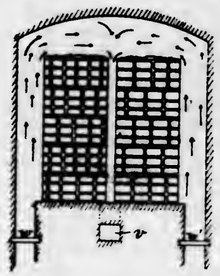
1. A service wagon having a wheeled box like frame and extension frames having curved outer sides secured to the respective ends of the frame and extending in the direction of travel of the wagon, and receptacles removably secured to the extension frames and depending therefrom.

1,427,389. MEANS FOR SUPPORTING AND OPERATING TIRE-PRESSURE GAUGES AND THE LIKE. ELLWOOD J. HORNE, Womelsdorf, Pa. Filed Aug. 20, 1921. Serial No. 494,011. 10 Claims. (Cl. 81—1.)



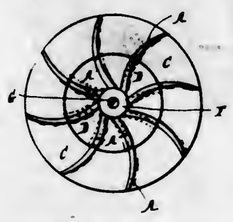
1. Means for manually supporting and operating a tire pressure gauge comprising a body length formed with an adjustable loop at one end thereof for detachably mounting a tire pressure gauge and formed at the opposite end thereof to provide jaws, the said body length providing means for manually applying a tire pressure gauge mounted in said loop end thereof, and the jaws providing means to aline the gauge with a valve stem.

1,427,390. APPARATUS FOR USE IN ANNEALING OR OTHERWISE TREATING METALS. ALFRED HOWGATE, Keighley, England. Filed Feb. 25, 1920. Serial No. 361,172. 4 Claims. (Cl. 266—5.)



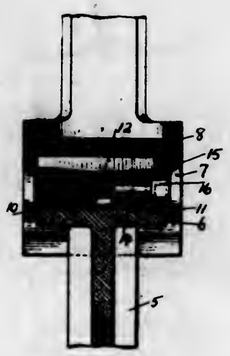
1. In the annealing of metals, a pan for the reception of the articles to be treated, detachable framework supported by said pan, and refractory material supported by said detachable framework.

1,427,391. CONSTRUCTION OF ROTARY FAN OR TURBINE WHEEL. STUART OTTO JOHNS, Island Bay, Wellington, New Zealand, assignor to The New Zealand Flusher Company Limited, Wellington, New Zealand. Filed Mar. 7, 1921. Serial No. 450,330. 2 Claims. (Cl. 258—139.)



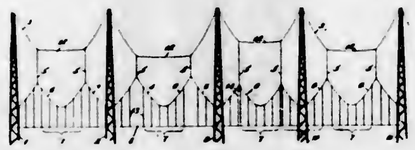
1. A fluid pressure actuated turbine wheel or fan, characterized by having its vanes or blades each made with its length divided into two portions relatively adjustable with respect to the planes of their pressure receiving surfaces, substantially as and for the purposes herein specified.

1,427,392. KNUCKLE-JOINT CONNECTION. WALTER JONES, New Brunswick, N. J., assignor, by mesne assignments, to Brunswick-Kroeschell Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Aug. 10, 1921. Serial No. 491,105. 2 Claims. (Cl. 74—108.)



1. A knuckle joint connection for pistons and rods comprising a cylindrical head having a longitudinal slot received within a transverse bore in the piston, said head having tapered holes tapering toward the middle of the head, a cone in each tapered hole, and a screw connecting the cones whereby they may be drawn toward each other to expand the head to take up lost motion between it and the transverse bore in the piston.

1,427,393. CATENARY-SUSPENSION SYSTEM. OSMUND M. JORSTAD, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 7, 1920. Serial No. 428,854. 12 Claims. (Cl. 191—41.)

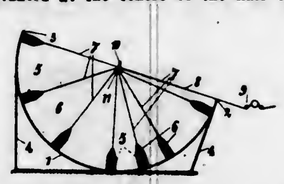


1. A conductor-suspension system comprising a plurality of supporting structures and a messenger cable supported thereby and constructed of a series of undulate sections of substantially identical form but of predetermined lengths to compensate for the distances between said supporting structures.

1,427,394. WARPER'S CREEL. GASTON JOURDAIN, Paris, France. Filed June 1, 1921. Serial No. 474,104. 3 Claims. (Cl. 28—32.)

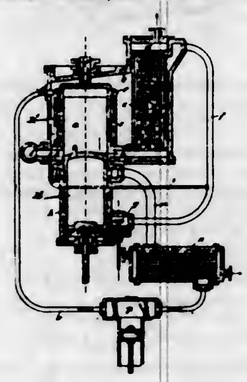
1. A creel for the reception of warp cops and other forms of wound yarn to be warped upon a beam or the like, said creel comprising a semi-cylindrical casing, cop spindles arranged on the inner face thereof, the axes

of the spindles coinciding with radii of the half cylinder, and a comb situated at the centre of the half cylinder



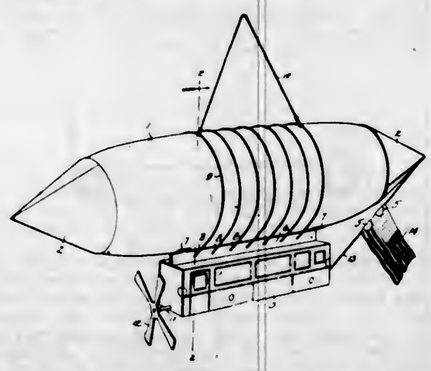
through which all the yarns from the cops or the like must pass to the warping frame.

1,427,395. COMBUSTION MOTOR. ALVIS KASCHTOFSKY, Prague-Smichov, Czecho-Slovakia, assignor of one-half to R. A. Fensl, Harris County, Tex. Filed Oct. 28, 1920. Serial No. 420,221. 4 Claims. (Cl. 60—14.)



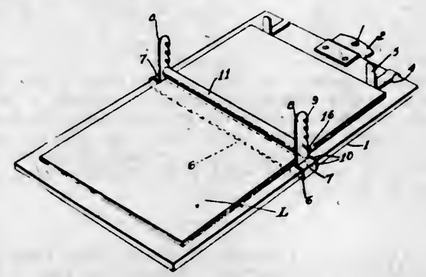
1. A method of utilising the waste heat of internal combustion engines consisting in vaporising the engine fuel prior to its introduction into the engine, utilising the expansive power of the vaporized fuel to drive an expansion engine, condensing the fuel after its passage through the expansion engine, and introducing a portion of said fuel while in its vaporized condition into the internal combustion engine.

1,427,396. TOY AIRSHIP. BOYD B. KEITH, Mansfield, Ohio. Filed Sept. 23, 1920. Serial No. 412,168. Renewed Nov. 25, 1921. Serial No. 517,812. 8 Claims. (Cl. 244—4.)



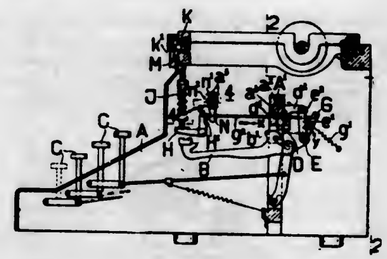
1. A toy airship, comprising an elongated balloon, cones on the ends of the balloon, an imitation car suspended from the balloon, a cord connecting the balloon and car, and a suspension device connected to the cord.

1,427,397. LETTER FILE. FRED M. KILFOYLE, Storrs, Utah. Filed Mar. 13, 1922. Serial No. 543,396. 3 Claims. (Cl. 129—28.)



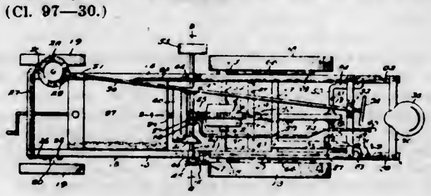
1. A letter file including a board, standards adjustable along the sides of the board, and an eccentrically mounted gripping roll adjustably supported by the standards.

1,427,398. TYPEWRITING MACHINE. KARL AUGUST LEHMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 14, 1921. Serial No. 507,754. 3 Claims. (Cl. 197—112.)



1. In combination with the type lever actuating devices of a typewriting machine, type levers actuated by said devices, a universal bar normally displaced by said type levers on actuation of the latter by said devices, and an independent dual control means for locking said bar and type levers, one of said control means being an automatic margin adjuster and the second of said control means being a manually controlled device for locking at will said bar and type levers whether said first control is actuated or not.

1,427,399. TRACTOR. HANS LINDNER, Woodsboro, Tex. Filed Sept. 15, 1920. Serial No. 410,439. 1 Claim. (Cl. 97—30.)



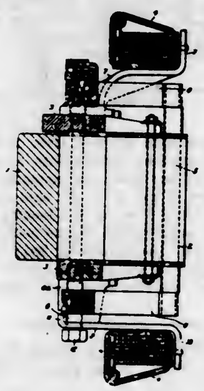
The combination with a wheeled frame, of depending bars connected with the frame and provided at their lower ends with inwardly extending horizontal portions, a lower transverse horizontal bar having its ends arranged beneath the inwardly extending portions and provided at its forward edge with an upstanding flange projecting above said portions, an upper transverse horizontal bar arranged upon said portions in spaced relation to the lower bar, bolts passing through the upper and lower bars and said

inwardly extending portions serving to connect them, an apertured plate adapted for insertion between said upper and lower bars and provided at its rear end with apertured knuckles, a bolt passing through the upper and lower bars and through the aperture in said plate, a coupling sleeve formed U shape in cross section and provided at its forward end with an apertured knuckle positioned between the first named knuckles, a pivot element passing through the apertured knuckles, a plow beam having its forward end arranged within the sleeve and secured therein, a bail pivoted to the frame and connected with the plow beam, and diagonal braces arranged upon opposite sides of the depending bars connected therewith.

1,427,400. PROCESS OF PRODUCING SALICYL ALDEHYDE. CHAUNCEY C. LOOMIS, New York, N. Y., assignor to Semet-Solvay Company, Solvay, N. Y., a Corporation of New York. Filed June 23, 1921. Serial No. 479,811. 3 Claims. (Cl. 260—137.)

1. The process of producing salicyl aldehyde which consists in forming the aldehyde in the presence of an alkali-metal sulfite or bisulfite in such excess as to convert the aldehyde as formed into a sulfite or bisulfite addition product and after the completion of the reaction distilling off the aldehyde from the addition product.

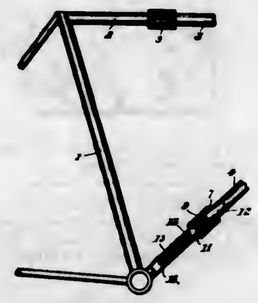
1,427,401. COIL SUPPORT FOR DYNAMO-ELECTRIC MACHINES. WILLIAM K. MCAFEE, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 13, 1917. Serial No. 196,383. 8 Claims. (Cl. 171—252.)



1. In a dynamo-electric machine, the combination with a core member provided with a coil, of a plurality of coil supporting members for said coil, one of said supporting members being formed in two parts and comprises a base portion attached to one side of said core member and a portion disposed intermediate said coil and said core member and adapted to engage said coil at one end and to be fastened to said base portion at the other end.

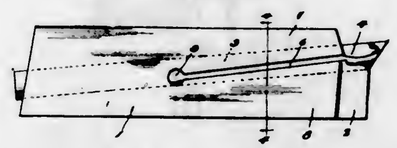
1,427,402. BICYCLE. FRANK A. MALEC, Pawtucket, R. I., assignor of one-half to Wincenty Kochan, Central Falls, R. I. Filed Oct. 3, 1921. Serial No. 506,028. 1 Claim. (Cl. 208—106.)

A bicycle of the type described comprising frame bars formed of connected sections, the connection including a sliding internally threaded sleeve carried by one section adapted for threaded engagement with the end of the other section, the latter section having a tapered socket in the end thereof, a plunger rod having a tapered end



resiliently mounted in the first named section and adapted to be moved into the socket in the other section.

1,427,403. TOOL HOLDER. TREVILLIE O. MARTIN, Jackson, Tenn. Filed Nov. 30, 1920, Serial No. 427,381. Renewed May 12, 1922. Serial No. 560,447. 2 Claims. (Cl. 29—96.)



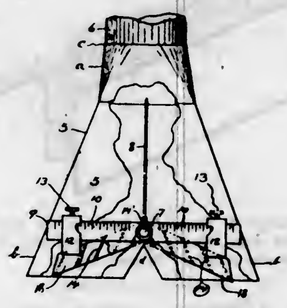
1. A tool holder comprising a shank provided with a tool-receiving socket extending from end to end thereof with its axis inclined with relation to the planes of the upper and under faces of the shank, the said shank being formed with a transverse longitudinally extending slot opening through the opposite walls of the socket, the said slot extending non-parallel to the axis of the socket with its inner end located substantially in the plane of the bottom wall of the socket.

1,427,404. SHEET-METAL VESSEL. VICTOR MAUCK, Norristown, Pa. Filed June 5, 1919. Serial No. 302,019. 7 Claims. (Cl. 220—73.)



1. A sheet metal vessel comprising an outer shell of circular form; a closure for the end of said shell, comprising a plate having a flange fitted to said shell; means limiting the relative position of said shell and closure plate, comprising an inwardly extending annular bead on said shell; a reinforcing ring formed of a split sheet metal tube fitted in said closure plate, and containing sealing means; the edges of said shell and closure plate being closed over said ring, and said sealing means filling the interstices at the joint between said edges and said ring.

1,427,405. PROPORTIONAL-FEED REGULATOR. LLOYD E. MAXEY, Wichita, Kans. Filed Feb. 14, 1922. Serial No. 536,577. 9 Claims. (Cl. 193—31.)



9. In combination, a housing having an intake leg and two discharge legs, an upright valve plate within the housing and mounted on a horisontal shaft located between the discharge legs, a graduated beam and a retarding device mounted on said shaft, pivotal supports for said shaft, opposed weights adjustable on the arms of said beam, and a stream-receiving and valve-actuating device comprising a hollow frame of greater length than width, centrally mounted on said shaft and valve-plate so as to actuate the latter, and two series of impact-plates fixedly mounted in each arm of said frame, the impact-plates of either series being outwardly and downwardly inclined from a vertical plane passing through the line of the shaft.

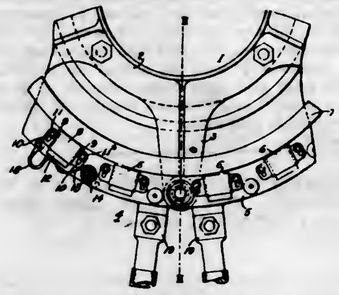
1,427,406. TROUSERS SUPPORTER. RAYMOND S. MILLER, Stockton, Calif. Filed July 19, 1921. Serial No. 485,826. 2 Claims. (Cl. 241—7.)



1. A trousers supporter comprising a strip adapted to be fixed to and depend downwardly from the top of the trousers, a strap adapted at its upper end for connection to the shirt of the wearer, and a combined pivotal and releasable connection between the strip and strap adjacent their lower ends.

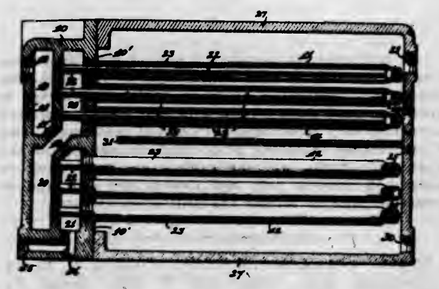
1,427,407. CURRENT-COLLECTING DEVICE. CHESTER B. MILLS, East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 26, 1918. Serial No. 264,235. 3 Claims. (Cl. 171—324.)

1. In a current-collecting device, a collector ring, a brush carrier adapted to hold a plurality of brushes in engagement with said ring, and means for longitudinally
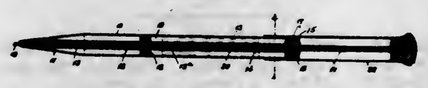


adjusting said carrier and said brushes as a unit, and means for radially adjusting said individual brushes.

1,427,408. OIL HEATER. BERNARD S. NELSON, New Orleans, La., assignor to A. M. Lockett & Co. Ltd., New Orleans, La., a Corporation of Louisiana. Filed Mar. 22, 1920. Serial No. 367,673. 2 Claims. (Cl. 257—238.)



1. An apparatus for exchanging heat comprising a single piece head having inner and outer walls having threaded apertures therethrough and formed with partition members extending between said walls and having threaded apertures therethrough concentric with each of the apertures in the inner wall of the head, tubes extending from the head consisting of outer pipes each sealed at one end and having their other ends threaded into the apertures in the inner wall of the head, and inner concentric pipes having their inner ends threaded into the apertures in said partition members and their outer ends provided with integrally formed and outwardly projecting ears whereby they will be maintained concentric with the outer tubes throughout their length, and a shell extending over the tubes fastened to the inner wall of the head and provided with inlet and outlet openings.

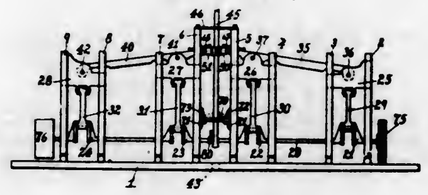
1,427,409. PENCIL. WALTER R. NOE, New York, N. Y. Filed May 10, 1920. Serial No. 380,021. 1 Claim. (Cl. 120—18.)



A pencil of the kind described comprising a barrel having a tapering exit end, a plug located in the inlet end of said barrel, an internally screw-threaded tube extending lengthwise of said barrel and having its exit end permanently fixed therein in registry with the exit

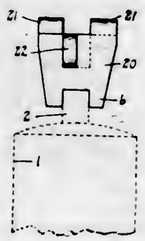
end of said barrel, said tube having its inlet end held in said plug and being arranged to contain an active lead, a cap movably fitted upon said barrel to complete the predetermined contour of said pencil, a screw-threaded rod fixed within and extending lengthwise of said cap and arranged to screw into said tube, and a stem forming an axial extension of said rod and of smaller diameter than said tube, said stem being adapted to be moved lengthwise thereof, by the action of said rod, to advance the active lead in said tube.

1,427,410. WELL-BORING DEVICE. LEWIS W. NORRIS, Oakland, Calif. Filed Aug. 31, 1920. Serial No. 407,148. 4 Claims. (Cl. 255—6.)



1. A well drill rig including a pair of gripping levers, jaws on the ends of said levers adjacent the drill, two slidably mounted cross heads on which each lever is pivoted, a crank shaft formed with four cranks, a pitman connecting each cross head with one of said cranks, two of said cranks extending at an angle in advance of the other two cranks whereby said levers are swung to cause said jaws to grip and elevate the drill and to cause the jaws to release the drill when elevated.

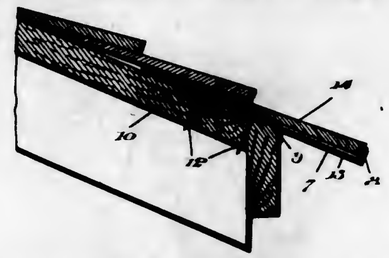
1,427,411. COLLAPSIBLE TUBE. CHARLES H. PAYNE, Cincinnati, Ohio. Filed Apr. 7, 1921. Serial No. 459,248. 2 Claims. (Cl. 91—67.4.)



1. A collapsible tube provided with a narrow wide mouth and a detachable wide thin closure device stamped out of sheet metal for said mouth.

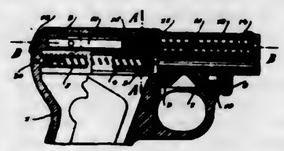
1,427,412. EDGE SUPPORT FOR ROOFS. ORSLOW PETERSEN, Cedar Falls, Iowa. Filed Feb. 24, 1921. Serial No. 447,527. 5 Claims. (Cl. 108—1.)

4. An edge support for roofs comprising a strip to extend along an edge of a roof frame with one edge portion overlapping said frame to be secured thereon, and having an upturned flange at its opposite edge for the abutment of the edge of the roofing resting on said strip, said strip having transverse corrugations for stiffening it and providing grooves under the roofing extending across the edge of the roof frame, said strip having



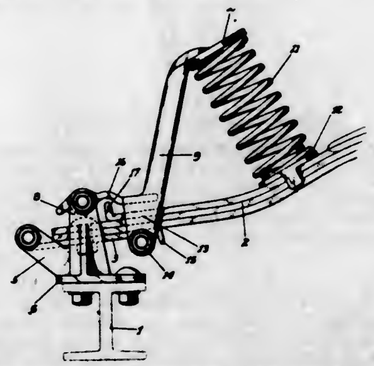
spurs downstruck therefrom between its edges to bear against the edge of the roof frame, and also having drain apertures adjacent to said flange.

1,427,413. AUTOMATIC PISTOL. NICOLAS PIEPER, Liege, Belgium. Filed July 8, 1919. Serial No. 309,443. 5 Claims. (Cl. 42—3.) (Granted under the provisions of the act of Mar. 3, 1921. 41 Stat. L., 1313.)



1. In an automatic pistol, in combination, a stock having a receiver therein for a reciprocable bolt, said receiver having an opening in its forward end for the insertion or withdrawal of the bolt and having longitudinal slots in its side walls, a barrel removably secured to said stock in advance of said receiver, a reciprocable bolt in said receiver, elements movable with said bolt and extending latterly through said longitudinal slots, and a locking member connected to one of said elements and adapted to engage the stock when the barrel is removed to prevent the escape of the bolt from the receiver, said member being manually movable relatively to said bolt and stock, to permit the bolt to be removed from said receiver.

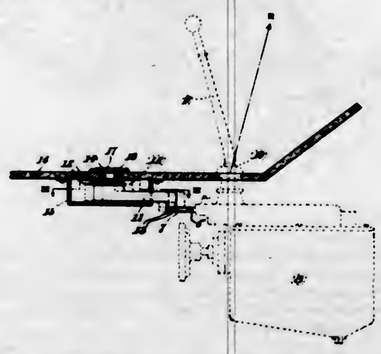
1,427,414. SHOCK ABSORBER. RAYMOND RAGSDALE, Porterville, Calif. Filed Feb. 11, 1922. Serial No. 535,696. 4 Claims. (Cl. 267—17.)



1. A shock absorber comprising a base member adapted to be fixed onto the axle of a vehicle, a plate pivotally

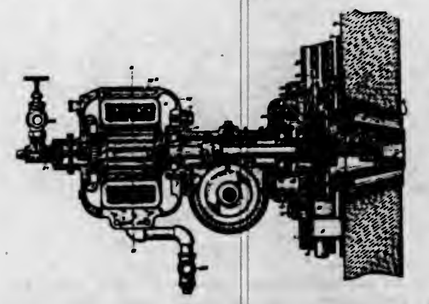
mounted to one end of the base above the axle and projecting in the direction of the vehicle spring, the adjacent end of the latter being adapted to be secured onto the plate, an arm pivoted to the base above the plate and extending thence over said spring, a compression spring between the upper end of said arm and said vehicle spring, and a transverse bearing member attached to the arm intermediate its ends and extending under the plate and on which the free end of the latter rests.

1,427,415. GEAR-SHIFT INDICATOR. ANTHONY RAICH, Kemmerer, Wyo. Filed Dec. 1, 1921. Serial No. 519,238. 6 Claims. (Cl. 116—114.)



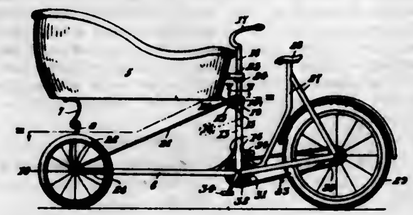
4. In combination with the horizontal sliding gear shifting bars of a motor vehicle change speed mechanism, means operatively connected to said rods for visibly indicating the position of the gears, said indicating means comprising a pair of indicator elements each rigidly connected to and movable with one of said rods, said indicator elements including horizontal overlapping plates with indicia thereon, and the uppermost plate having an opening therethrough between its indicia through which the indicia of the lower plate is adapted to be exposed.

1,427,416. ELECTRIC MOTOR. WILLIAM RUTH RAY, San Francisco, Calif. Original application filed Sept. 25, 1916, Serial No. 122,014. Divided and this application filed Oct. 22, 1919. Serial No. 332,395. Renewed Jan. 18, 1922. Serial No. 530,229. 3 Claims. (Cl. 172—36.)



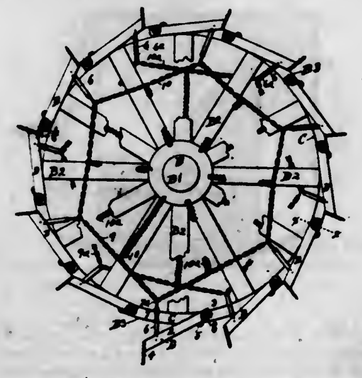
1. In an electric motor, a housing, said housing being split to permit contraction and expansion of the same, bolts passing through the housing adjacent the split portion to permit contraction and expansion of the housing, a field ring within the housing adapted to be secured by the contraction of the housing, a jacket formed exterior of the housing terminating at the split portion of the housing, and a pair of pipes connected with the jacket terminating points to permit circulation of a cooling medium through the jacket.

1,427,417. VELOCIPEDE. STEVE RICKEY, Moosehorn, Manitoba, Canada, assignor of one-half to Steve Chorny, Moosehorn, Manitoba, Canada. Filed Sept. 15, 1921. Serial No. 500,731. 1 Claim. (Cl. 208—45.)



A device of the class described comprising a horizontal frame bar with a transverse steering axle centrally pivoted to the forward end thereof upon a vertical axis, a hollow post extending upwardly from said horizontal bar and rigid with the latter substantially midway between the ends of the same, a steering post journaled in said upright tubular post, a body, flexible means between the axle and the body for resiliently supporting the forward end of the latter at a desired elevation above the horizontal frame bar, means interposed between the steering post and the rear end of the body for supporting said rear end of the body at the desired elevation and for permitting free rotation of the steering post, means connecting said steering post with the opposite end portions of the axle for effecting swinging movement of the latter upon rotation of said steering post, a seat, means supporting said seat above the horizontal frame bar rearwardly of the steering post, a supporting wheel situated in the plane of the longitudinal axis of the body and journaled at the rear end of said horizontal frame bar, manually operable means for rotating the rear supporting wheel including pedals actuatable by an occupant of said seat, said means for supporting the rear end of the body including an annular flange upon the steering post, a forked bracket fixed to the rear end of the body and partially embracing the steering post and resting upon said annular shoulder, and a spring attached to the rear end of the body and to the upright tubular post for yieldingly maintaining the forked bracket in engagement with the steering post.

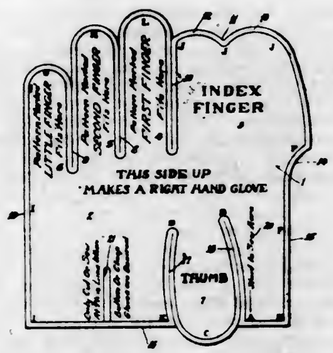
1,427,418. GROUTER FOR TRACTOR WHEELS. JOHN F. ROBERTS, Fresno, Calif. Filed Aug. 17, 1921. Serial No. 492,977. 6 Claims. (Cl. 301—45.)



6. In combination with a traction wheel having a rim, a plurality of pairs of outward projections around said rim equidistant apart, one projection of each pair being on each side of the rim, a plurality of grouters, each grouter constructed with two arms, having hooks at one end and a baffle blade at the other end, said arms being tied

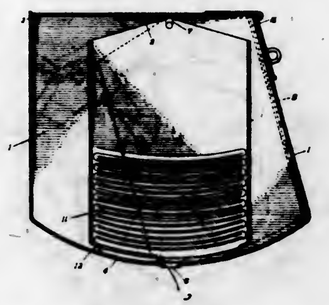
together so that the hooks on the grouter arms can pivotally engage a pair of the projections said arms being rigidly tied together, upright guides attached to the arms adapted to pass on each side of the rim as the grouter swings on said pivotal projections, two endless chains of uniform length attached to the grouters, the alternate grouters being attached to different chains, said chains being of such length that when one grouter is swung from the periphery of the wheel within the fixed limitation, all the other grouters attached to the same chain will be drawn against the periphery of the wheel, substantially as described.

1,427,419. GLOVE PATTERN. WILLIAM ALBERT RUDDELL, Asbury Park, N. J. Filed July 6, 1921. Serial No. 482,813. 5 Claims. (Cl. 33—12.)



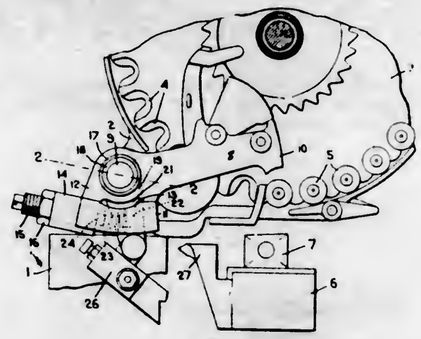
1. A glove pattern comprising a plurality of parts having the marginal contours of the component blank members of the glove which they represent and provided at intervals adjacent their margins with symbols having an established sequence and indicative of the manner in which the members cut by the aid of the pattern parts are to be assembled and their margins progressively united to complete the glove.

1,427,420. TOWEL DISPENSER. FREDERICK L. SARGENT, Burlingame, Calif. Filed Nov. 7, 1921. Serial No. 513,381. 7 Claims. (Cl. 211—29.)



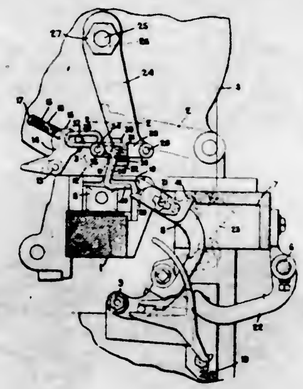
1. A paper towel dispenser comprising a casing having a dispensing slot in the bottom thereof; a towel container pivotally mounted within the casing and arranged to oscillate above said dispensing slot, said container being adapted to receive a plurality of interfolded towels, the free end of the lowermost towel normally extending outwardly through the slot; and means for supporting the towels within the container to permit oscillating movement thereof when said towel is withdrawn through the slot.

1,427,421. TRANSFER MECHANISM FOR LOOMS. ALFRED E. STAFFORD, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 24, 1920. Serial No. 360,892. 7 Claims. (Cl. 139—85.)



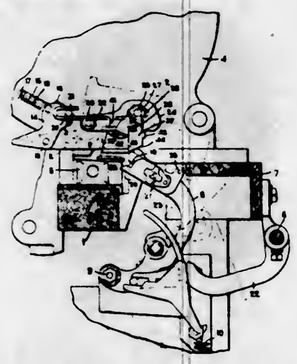
1. An automatic filling replenishing loom comprising a transferrer, means operable by the movement of the lay to positively actuate the same including a compression spring acting to permit said transferrer to yield upon encountering an abnormal obstruction.

1,427,422. FILLING CLAMPING AND PARTING MECHANISM FOR LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 14, 1921. Serial No. 469,509. 4 Claims. (Cl. 139—85.)



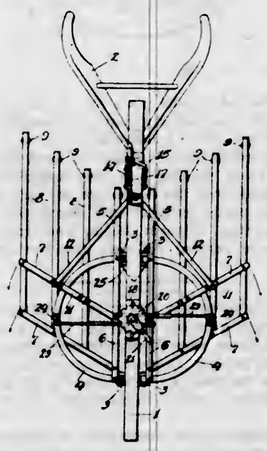
1. An automatic filling replenishing loom comprising a lay, a replenishing magazine for the fresh filling carriers, means for transferring a fresh filling carrier from the magazine to the lay, a filling clamping and parting device movable into position to receive the running filling when the lay is in position for transfer, an actuator actuated by or through the transfer of the fresh filling carrier from the magazine to the lay to actuate the filling clamping and parting device to clamp and part the filling extending from the filling carrier to be abandoned, and a yieldable support for the actuator whereby the actuator may yield upon the occurrence of an abnormal resistance.

1,427,423. FILLING CLAMPING AND PARTING MECHANISM FOR LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 20, 1921. Serial No. 509,078. 4 Claims. (Cl. 139—85.)



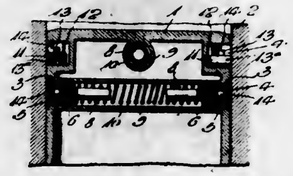
1. An automatic filling replenishing loom comprising a lay, a replenishing magazine for the fresh filling carriers, means for transferring a fresh filling carrier from the magazine to the lay, a filling clamping and parting device movable into a position to receive the running filling when the lay is in position for transfer, the said filling clamping and parting device having an instrumentality to be engaged by an actuator to effect the closing of the clamping and parting device, an actuator, located out of the path of movement of said actuator engaging instrumentality during the positioning movement of said clamping and parting device, actuated by or through the transfer of the fresh filling carrier from the magazine to the lay and having means to engage and actuate said instrumentality to effect the closing of said clamping and parting means, and a gravity switch-cam mounted on said magazine, located in the path of said actuator engaging instrumentality and acting upon said actuator engaging instrumentality to open said clamping and parting means the positioning movement thereof.

1,427,424. CULTIVATOR. DEWITT W. STRICKLAND, Tylertown, Miss. Filed May 27, 1921. Serial No. 473,213. 3 Claims. (Cl. 87—10.)



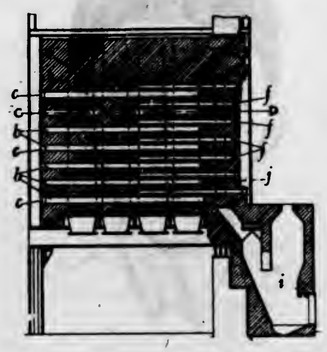
1. In a cultivator, the combination with a main beam, of arcuate supporting bars hinged to the sides of the beam, gangs of cultivators carried by said bars, arcuate racks pivoted at their outer ends to the said supporting bars and extending upwardly and inwardly over the beam, a housing upon the beam through which the said racks pass, a locking plate fixed upon said housing, a pinion rotatably fitted in the housing and said locking plate between and meshing with said racks, said locking plate having a circular edge concentric with said pinion, an operating lever connected with said pinion, and a latch carried by the lever to engage any one of the notches in the locking plate.

1,427,425. PISTON AND PISTON RING. MICHAEL H. SULLIVAN, Poughkeepsie, N. Y. Filed June 6, 1921. Serial No. 475,543. 9 Claims. (Cl. 74—109.)



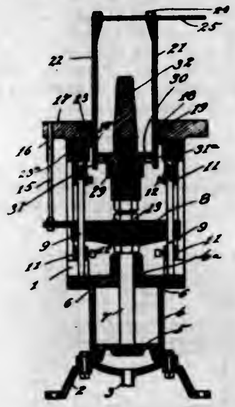
1. The combination with a piston having a ring groove: of a piston ring in said groove diametrically split into two semi-circular relatively movable sections, and a single coiled spring extending diametrically across said piston and acting on the centers of said ring sections to force them into uniform contact with the cylinder wall.

1,427,426. HEATING OR VERTICAL RETORTS FOR THE DISTILLATION OF CARBONACEOUS MATERIALS. WILLIAM WILD, Blackpool, England, assignor of one-half to West's Gas Improvement Company Limited, Manchester, England. Filed June 5, 1920. Serial No. 386,851. 1 Claim. (Cl. 202—9.)



In means for the distillation of carbonaceous materials, in combination, a row of vertical retorts, superposed horizontal combustion chambers disposed around the said retorts for heating the latter, each row of retorts being heated in any one horizontal plane by two chambers arranged at its opposite sides, gas inlets to said chambers at one end of the row of retorts, air supply conduits extending along the whole horizontal length of the combustion chambers to adjacent said gas inlets, further air supply conduits extending along a portion only of the horizontal length of the combustion chambers and each entering one of the latter at a point between its ends, and a waste gas outlet from each combustion chamber at the end thereof opposite to the gas inlet, as set forth.

1,427,427. CORE-MAKING MACHINE. FRED ZOLL, Birmingham, Ala. Filed Mar. 18, 1921. Serial No. 453,206. 3 Claims. (Cl. 22—10.)



1. In a machine for making cores, the combination with a driven piston, of a cylindrical element, and a reciprocating element therein, comprising in part a vent plunger or the like, driven by said piston, a closable filling opening in the cylinder element for sand, and means for opening the cylinder element laterally for removal of completed cores, said machines having means for adjustably limiting the stroke of the piston.

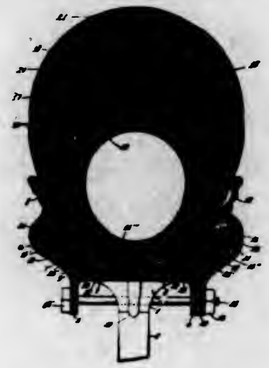
1,427,428. EXHIBITING DEVICE. ADELBERT AMES, Jr., Tewksbury, Mass. Filed Oct. 3, 1919. Serial No. 328,086. 10 Claims. (Cl. 40—125.)



1. An exhibiting device comprising an opaque pictorial surface having an opening therein for the transmission of light therethrough, and a fixed opaque element, constituting an apparent continuation of said pictorial surface and having a superficial area less than that of the opening arranged behind and spaced substantially from the plane of said surface to co-act with said opening whereby to obstruct the passage of a portion of the light normally transmitted therethrough.

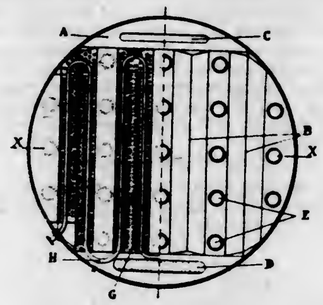
1,427,429. VEHICLE WHEEL. ANDRES BALAGUER, Marianao, Habana, Cuba. Filed May 6, 1919. Serial No. 295,232. 1 Claim. (Cl. 152—10.)

A tire comprising a pneumatic cushion, layers of reinforcing and cushioning material extending therearound, a solid annular cushion of crescent shaped cross-section on the outer periphery of said layers, reinforcing and cushioning layers extending around said pneumatic cushion, said first named layers and said solid cushion, beads,



reinforcing and cushioning layers extending around said beads and also around the second named layers, and a solid annular tread cushion of crescent shaped cross-section on the periphery of the outermost of the third named layers.

1,427,430. DISTILLING AND RECTIFYING COLUMN. EMILE AUGUSTIN BARBET, Paris, France. Filed Sept. 22, 1920. Serial No. 411,924. 4 Claims. (Cl. 195—13.)



3. An improved column plate for distilling and rectifying apparatus, comprising a plate, a plurality of parallel elevations, extending substantially across the plate, chimneys extending from the plate between said elevations to a point above the level of the elevations, elongated hoods arranged over the chimneys in each of the portions of the plate between said elevations, perforated plates connecting adjacent hoods and resting on the elevations, and cooling coils on the perforated plates.

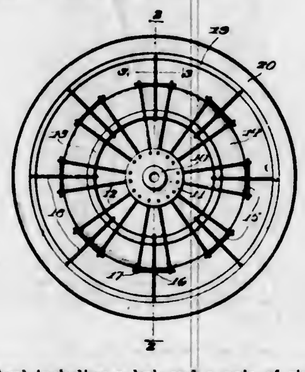
1,427,431. COMPOUND OF THE ACRIDINE SERIES AND A PROCESS OF MAKING THE SAME. LOUIS BENDA, Mainkur, near Frankfort-on-the-Main, Germany, assignor to Leopold Cassella & Co. Gesellschaft mit beschrankter Haftung, a Corporation of Germany. Filed July 14, 1921. Serial No. 484,781. 3 Claims. (Cl. 260—36.)

1. A process for the production of new acridine derivatives by treating 3.6-diamino-10-alyklacridinium compounds with formaldehyde in the presence of diiute mineral acids, at ordinary temperature.

1,427,432. ACRIDINIUM COMPOUNDS AND A PROCESS OF MAKING THE SAME. LOUIS BENDA, Mainkur, near Frankfort-on-the-Main, Germany, assignor to Leopold Cassella & Co. Gesellschaft mit beschrankter Haftung, a Corporation of Germany. Filed July 14, 1921. Serial No. 484,782. 8 Claims. (Cl. 260—36.)

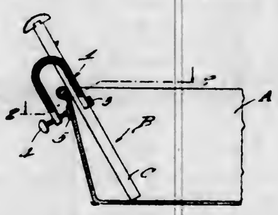
3. As new substance the product obtained by treating the readily soluble salts of 3,6-diamino-10-methylacridinium with tannin in the presence of acid-binding agents, forming a bright orange-yellow colored powder, absolutely tasteless, suitable for lake colors, which in cold water dissolves extremely difficultly, whereas in hot water and alcohol the solubility is somewhat better.

1,427,433. AUTOMOBILE WHEEL. EDGAR A. BERG, Grand Forks, N. Dak. Filed Dec. 22, 1921. Serial No. 524,213. 1 Claim. (Cl. 152—46.)



A wheel including a hub and a pair of rims of different diameters disposed concentrically outward of the hub, a pneumatic tire carried on the inner rim, a circular series of peripherally notched plates disposed on the outer tread face of the tire, a series of radial yokes having their bight portions embracing the tire and plates and with their arms engaged in certain of the said notches, and a series of yokes having their bight portions embracing the tire and inner rim, the arms of the first yokes being secured to the hub, the arms of the second yokes being secured to the outer rim.

1,427,434. WASHBOARD CLAMP. FREDERICK CHARLES BOHRI, Los Angeles, Calif. Filed June 16, 1921. Serial No. 478,118. 1 Claim. (Cl. 68—29.)



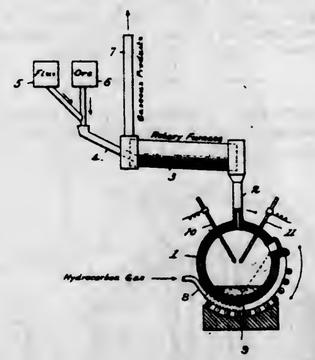
A wash board clamp comprising a substantially U-shaped yoke, the arms of which are intended to straddle the side of a tub or the like, the inner arm having an integral laterally disposed jaw at its lower end designed to engage one of the side-pieces of the board, the remaining arm having a projection on its lower end extending in the same direction and in parallelism with said jaw, and a binding screw extending through said projection for engagement with the tub.

1,427,435. COMBINED CUP PROTECTOR AND CASING CLEANER FOR PUMP PLUNGERS. JOHN L. BOSTIC, Wainwright, Okla., assignor of one-half to Invader Oil Corporation, Muskogee, Okla. Filed May 19, 1921. Serial No. 470,994. 4 Claims. (Cl. 103—63.)



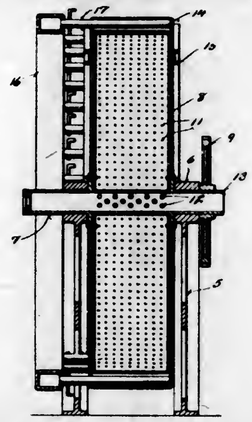
1. A device of the class described comprising a combined coupling and conduit designed to be permanently installed in a pump plunger between the traveling valve cage and cup-carrying tube, and a cleaning device carried by said coupling.

1,427,436. ELECTRIC-FURNACE CONSTRUCTION. WALTER E. F. BRADLEY, Nyack, N. Y. Original application filed July 17, 1918, Serial No. 245,368. Divided and this application filed July 22, 1918, Serial No. 246,123. Renewed Jan. 25, 1922. Serial No. 531,822. 4 Claims. (Cl. 204—64.)



4. An ore reduction apparatus comprising in combination an electric furnace of the tilting type provided with suitable electrodes and having an inlet through which the charge is received and an outlet through which the slag and reduced charge may be poured, a rotary drum furnace having suitable communication with the electric furnace inlet for delivering materials into the furnace and receiving gaseous products therefrom, a carbon tuyère independent of said electrodes and disposed in position to be covered by a molten charge in the electric furnace in the receiving and reducing position, and to be removed therefrom in the pouring position, and means for supplying a reducing gas to said tuyère.

1,427,437. PAPER-DRYING MACHINE. PETER BERUBE, Milwaukee, Wis., assignor of one-half to Alfred A. Jenss, Milwaukee, Wis. Filed Mar. 8, 1921. Serial No. 450,616. 3 Claims. (Cl. 34—48.)

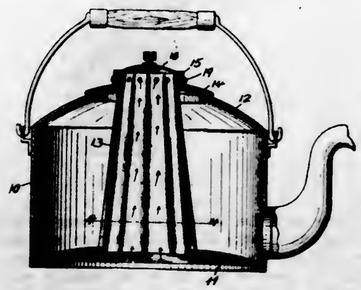


1. A paper drying machine comprising a hollow perforated roller around which the paper passes, a housing enclosing the periphery of said roller, a hot air supply pipe in communication with the interior of said housing for discharging hot air onto the outer surface of the paper as it passes around said roller and a rotatable hollow perforated core on which said roller is carried, whereby the moisture may be drawn from the paper through the perforations in the roller and core while the hot air is discharged onto its outer surface.

1,427,438. ART OF PREPARED MEATS. EMIL O. BRICKMAN, Chicago, Ill., assignor to Illinois Meat Company, a Corporation of Illinois. Filed Aug. 9, 1920. Serial No. 402,317. 6 Claims. (Cl. 99—11.)

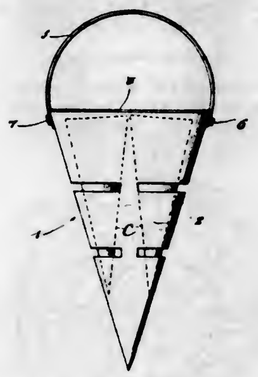
1. A prepared meat comprising a plurality of meat pieces fastened together by sheets of edible cementing material interposed between adjacent surfaces.

1,427,439. KITCHEN UTENSIL. HELEN SELINA BRITTON, Castleton Hill, N. Y. Filed Feb. 23, 1921. Serial No. 447,036. 2 Claims. (Cl. 53—8.)



1. A kitchen utensil comprising a container having an opening in its bottom and top walls, a tapering flue having its walls vertically corrugated and its lower end secured to the bottom wall of the container in registration with the opening in said bottom wall, a closure for the opening in the top wall of said container, said closure having an opening to receive the upper end of said flue, said flue and edge of said closure having registering openings, a second closure mounted on said upper end of the flue for rotation thereon and having openings for registration with said first mentioned registering openings, and a pin and slot connection between the second closure and the flue to limit rotation of said second closure.

1,427,440. ICE-CREAM-CONE CARRIER. PETER BROWN, Hampton, Va. Filed Nov. 18, 1920. Serial No. 424,981. 5 Claims. (Cl. 229—6.)

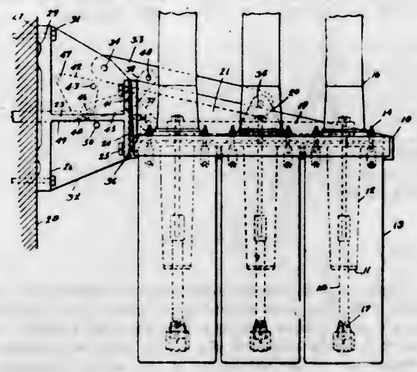


3. An ice cream cone carrier comprising a container provided with a plurality of bowed strips for partially surrounding a cone and holding it in place against the body of the container.

1,427,441. PROCESS OF FIXING SYNTHETICAL NITRIC ACID. MAX BUCHNER, Hanover-Kleefeld, Germany. Filed Apr. 6, 1921. Serial No. 459,205. 10 Claims. (Cl. 23—1.)

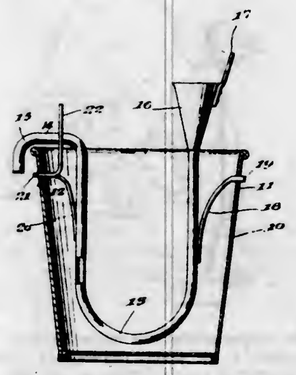
1. Process of fixing synthetic nitric acid, comprising reacting therewith on a sulphide of a metal whose bydroxide is alkaline.

1,427,442. OIL SWITCH. GORDON CAMERON, Wollaston, Mass., assignor to Sears B. Condit, jr., Brookline, Mass. Filed Aug. 2, 1918. Serial No. 247,930. 6 Claims. (Cl. 200—150.)



4. An electric switch having operating mechanism including an operating member arranged for movement in one direction to close the switch and in the opposite direction to open the switch, a second member arranged to be connected with said first member in a plurality of angularly different positions also arranged for connection with an operating rod in a plurality of angularly different positions with respect thereto, whereby to actuate said first member in the same direction to operate the switch from all positions of said operating rod.

1,427,443. MILK-COOLING DEVICE. DAVID A. COOK, Lamont, Iowa. Filed Apr. 22, 1921. Serial No. 463,670. 2 Claims. (Cl. 257—78.)



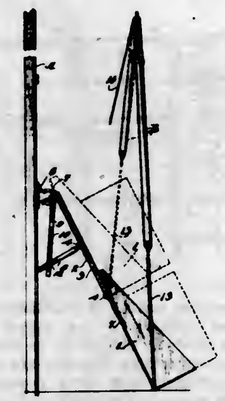
2. In a milk cooling device the combination with a receptacle having openings adjacent the upper end, a U-shaped pipe disposed vertically in the receptacle, said pipe being arranged to receive a cooling medium therethrough, a handle carried by the upper end of one of the legs of the pipe, a flexible arm secured to said leg and having a lug journaled in one of said openings, and a second resilient arm carried by the other leg of the pipe and formed with a lug journaled in the other opening whereby the pipe is capable of rocking movement in the liquid in the receptacle, and ready removal from the receptacle upon flexing the last-named arm to release the lug from the opening.

1,427,444. PROCESS FOR PRODUCING MAGNESIUM CARBONATE. CARL CRAMER, Zurzach, Switzerland, assignor to the Firm Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Filed June 12, 1922. Serial No. 567,739. 8 Claims. (Cl. 23—13.)

1. The process of producing carbonates of magnesium by mutual decomposition of ammonium carbonate with soluble magnesium salts, which comprises submitting the mixture to agitation.

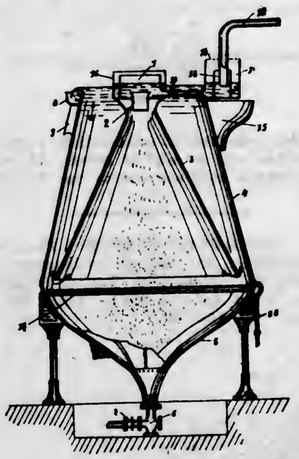
1,427,445. APPARATUS FOR ICING REFRIGERATORS AND ICE BOXES. OSCAR B. CURRAN, Garden City, Mo., assignor of one-fourth to W. G. Merrifield and one-fourth to M. L. Merrifield, both of Garden City, Mo. Filed June 1, 1921. Serial No. 474,094. 7 Claims. (Cl. 214—120.)

1. In loading apparatus for refrigerators, the combination with a support, of a receiving chute the lower end of which is adapted to coact with the ground surface in loading position, connecting means intermediate the upper end of the chute and the wall of the support holding said chute in rigid extension with its body upwardly inclining in alinement with said means, and hoisting means connected with the chute the initial movement of which shifts the chute on to the connecting means and thereafter



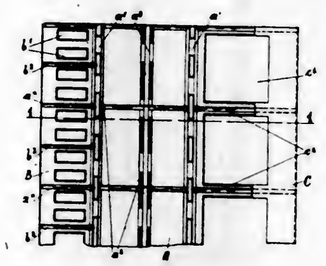
tilts the chute and said means to position the bottom of the chute at a downward inclination for discharging its contents.

1,427,446. DECANTATION APPARATUS. JOSEPH DENOËL, Lemberg, Belgium. Filed July 7, 1920. Serial No. 394,534. 1 Claim. (Cl. 210—58.)



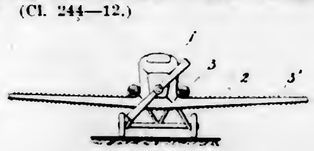
A decantation apparatus comprising an inverted funnel placed in a casing, a tank arranged above the entrance neck of the funnel and opening into said neck, a jacket surrounding said tank and forming around the tank a passage for the escape of the air, a horizontal pipe connecting the bottom of said tank with the bottom of a second tank into which opens the supply pipe for the liquid to be purified, baffles arranged in said second tank, means for evacuating continuously a current of the heavier portion of the liquid at the bottom of the casing, and means for discharging a current of the clear liquid at the upper end of the casing, said casing being of conical shape so that the lowest velocity reached by the liquid at the bottom end of the funnel is maintained during the ascending movement of the clear liquid between the funnel and the casing.

1,427,447. SUPPORTING PLANE. CLAUDIUS DORNIER, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,553. 3 Claims. (Cl. 244—31.)



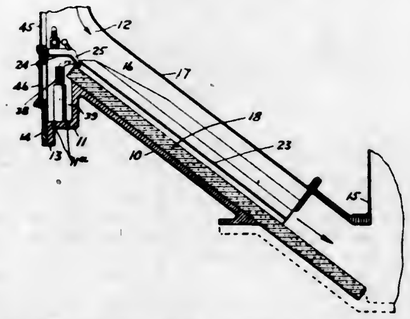
1. In a supporting surface in combination, a main supporting portion forming a box girder and separate front and rear portions adapted to be fixed thereto and serving mainly for guiding the air, said front and rear portions being formed each of a pressed sheet metal frame bent into shape and adapted to be connected with said main portion by its free edges.

1,427,448. FLYING-MACHINE COVER. CLAUDIUS DORNIER, Friedrichshafen, Germany, assignor to Zeppelin-Werke Lindau, Gesellschaft mit beschrankter Haftung, Lindau-Reutin, Germany, a German Corporation. Filed Mar. 31, 1921. Serial No. 457,541. 3 Claims. (Cl. 244—12.)



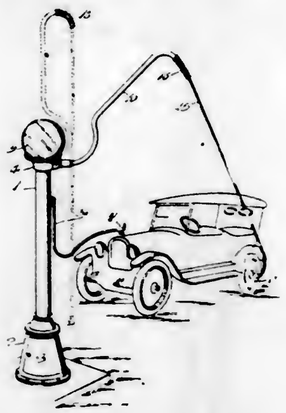
1. In a flying machine in combination, a pair of supporting surfaces and a pair of covers, adapted to be rolled up, attached with one end to the supporting surface bases.

1,427,449. LIQUID-FUEL BURNER. FRANCIS I. DU PONT, Wilmington, Del., assignor to Delaware Chemical Engineering Co., Wilmington, Del., a Corporation of Delaware. Filed Apr. 13, 1921. Serial No. 460,997. 16 Claims. (Cl. 158—91.)



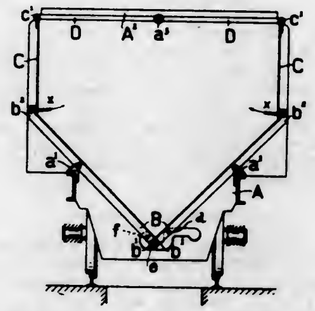
6. A liquid fuel burner having a casing, a sloping hearth therein of fireproof material, a plurality of longitudinal channels on the surface of the hearth, a division plate in the casing dividing the casing into a combustion chamber and an air chamber, said division plate having openings for feeding air from the air chamber to the combustion chamber, means for feeding air to the air chamber, means for feeding oil to each of the channels on the hearth at the upper end thereof, and means for controlling said feed.

1,427,450. AIR-SUPPLY STATION. ARNO A. EWALD, Oakfield, Wis. Filed Feb. 9, 1920. Serial No. 357,475. 15 Claims. (Cl. 299—77.)



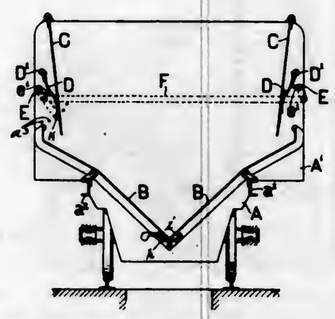
1. An air supply station for motor vehicles comprising the combination of air supply connections terminating in a flexible length of hose provided at its outer end with a valved head adapted to fit a tire nipple, a movable supporting member for the other end of said length of hose adapted to swing over a vehicle canopy and carry the hose to positions convenient for tire inflating operations, and means for automatically retracting said supporting member and hose to a normal position of suspension at one side of the path of vehicle travel said hose also constituting means for manipulating the supporting member from normal position.

1,427,451. SELF-DUMPING VEHICLE. FRITZ FINCKH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 3, 1920. Serial No. 428,112. 4 Claims. (Cl. 105—260.)



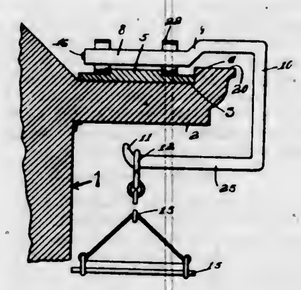
1. In an automatic self-dumping vehicle, a bottom portion comprising two doors swingingly mounted on the vehicle frame and adapted to open centrally and automatically by the weight of the lading, and side walls movably connected to the upper edges of the said doors, so that each of the side walls is swung into approximate parallelism with its connected door in the course of its motion.

1,427,452. VEHICLE DISCHARGING FROM THE BOTTOM. FRITZ FINCKH, Essen-on-the-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 6, 1920. Serial No. 428,736. 5 Claims. (Cl. 105—250.)



1. A vehicle discharging from the bottom having bottom doors opening automatically under the action of the weight of the load, movable side walls and means for establishing a sliding contact between said side walls and said bottom doors on the discharging movement of said parts.

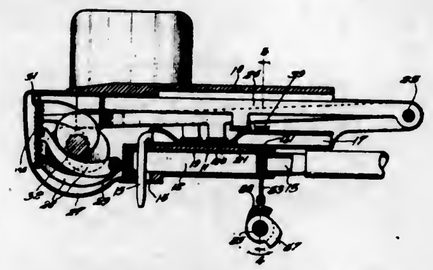
1,427,453. SCAFFOLD HANGER. JAMES C. FLEMING, Denver, Colo. Filed Apr. 16, 1920. Serial No. 374,427. 1 Claim. (Cl. 304—17.)



In a device of the class described, a truck comprising a back bar, a front bar, end bars connecting the front and back bars, rotatable members journaled on the front and back bars and spaced inwardly from the end bars, the truck being open, longitudinally of the truck, between the rotatable members, the end bars being extended to form arms including approximately horizontal portions extended beneath the truck and of sufficient length to permit the adjustment of a scaffold therealong, transversely of the truck.

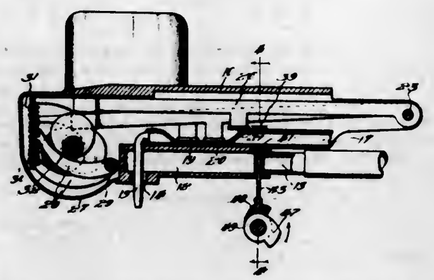
1,427,454. ART OF PRODUCING ORNAMENTAL SURFACES. MAJOR E. GATES, Terra Cotta, Ill. Filed Apr. 28, 1920. Serial No. 377,341. 23 Claims. (Cl. 91—45.)

1. In the art of coating surfaces, the method which consists in discharging against the object to which the coating is to be applied, a plurality of streams of separated bodies of coating fluid directed against said object



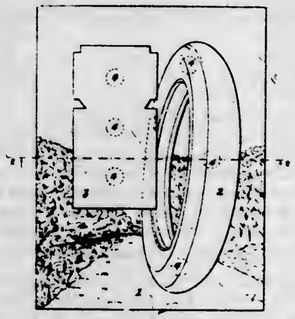
and maintaining a predetermined measured flow of such bodies to said object.

1,427,455. FLUID-CONTROLLING DEVICE. MAJOR E. GATES, Terra Cotta, Ill. Filed Apr. 28, 1920. Serial No. 377,342. 56 Claims. (Cl. 91—45.)



17. In an apparatus of the character set forth, the combination of a plurality of conduits, means for causing fluids to flow through said conduits, and means, operating automatically, to cause variations in the flow of the fluids relative to each other.

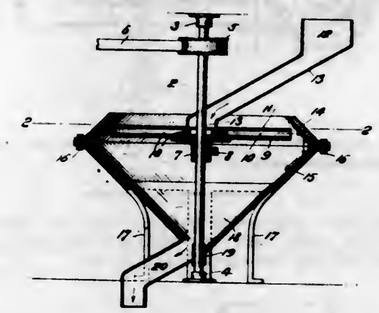
1,427,456. METHOD OF PRODUCING PICTURES WITH EXAGGERATED PERSPECTIVE. BUAS E. GIFFEN, New York, N. Y., assignor to The Martin V. Kelley Company, New York, N. Y., a Corporation of Ohio. Filed Oct. 12, 1920. Serial No. 416,503. 1 Claim. (Cl. 95—5.)



A method of producing pictures with exaggerated perspective comprising making a suitable background picture,

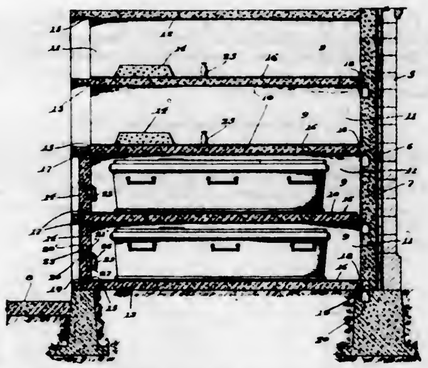
making a cut out object picture on an enlarged scale with relation to the background scale, mounting it on the background picture and spaced therefrom, illuminating the assembled pictures so that the object picture casts a shadow on the background and finally photographing the composite picture.

1,427,457. CENTRIFUGAL DECORTICATOR. SAMUEL H. GILLESPIE, Morristown, N. J. Filed June 17, 1921. Serial No. 478,262. 2 Claims. (Cl. 146—3.)



1. In a device of the class described, means for projecting a nut, an inclined surface at an angle to the direction of movement of the nut which is adapted to receive the impact of the nut and crack the same and a second inclined surface intersecting the path of rebound from the first surface and adapted to receive the nut with a glancing blow from the first inclined surface and separate the meat from the shell.

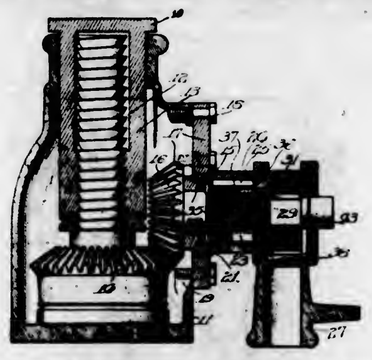
1,427,458. BURIAL CRYPT. ROBERT E. GLASS, Columbus, Ohio. Filed Oct. 27, 1920. Serial No. 420,058. 3 Claims. (Cl. 72—7.)



1. The combination with an hermetically sealed crypt, of an open-mouthed disinfectant container therein, and a U-shaped filling duct leading into the crypt from its exterior and having the ends of its legs disposed in the same plane and extending in opposite directions, one of the said ends being arranged to receive disinfectant and the other end being arranged in filling relation to the container.

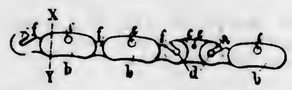
1,427,459. JACK. JOHN B. HASTY, San Bernardino, Calif., assignor to Lovejoy Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Oct. 2, 1918. Serial No. 256,585. 6 Claims. (Cl. 254—103.)

1. In a jack the combination of elevating mechanism, a ratchet manipulating device for operating said elevating mechanism and comprising a ratchet wheel and a tooth movable into engagement therewith, and means having longitudinal movement with respect to the axis of said ma-



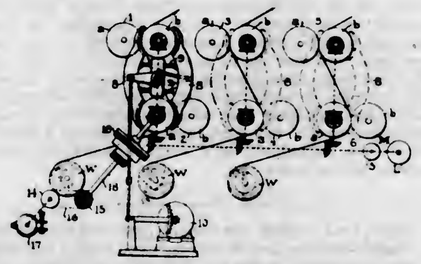
nipulative device proportionate to the rotation of said axis for causing engagement beneath the tooth when the elevating mechanism arrives at predetermined position to lift the tooth out of position for engagement with the ratchet.

1,427,460. POWER-TRANSMITTING BELT. JAMES ALBERT HAWKESWORTH, London, England, assignor to The Graton & Knight Manufacturing Company, Worcester, Mass. Filed July 27, 1921. Serial No. 487,835. 3 Claims. (Cl. 74—64.)



1. A power-transmitting belt of the link type composed of non-metallic friction-producing links and metal connecting links, in which the coupling means consist of pivot pins which are formed with rebated portions and are mounted rotatably in sockets formed transversely in the non-metallic friction-producing links, and hooks which are formed on the end portions of the metal connecting links and are adapted to be detachably engaged with the said rebated portions of the pivot pins.

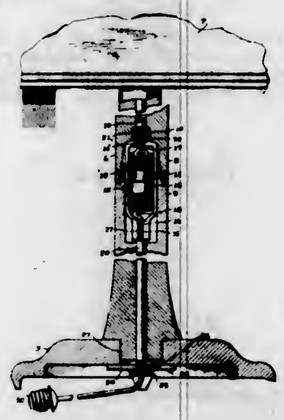
1,427,461. BRAKING SYSTEM FOR PRINTING PRESSES AND OTHER MACHINES. CLARK T. HENDERSON, Youngstown, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Original application filed July 3, 1916, Serial No. 107,298. Patent No. 1,252,902, dated Jan. 8, 1918. Divided and this application filed Aug. 1, 1917. Serial No. 183,837. 12 Claims. (Cl. 101—247.)



1. In a braking system for a printing machine or the like supplied from a roll, in combination, braking means for the machine and control means for the supply roll to

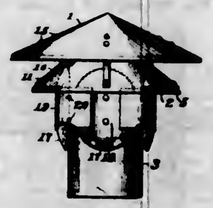
subject the latter to slow down with the machine in a given relation, said control means including normally inactive means dependent for action upon braking of said machine.

1,427,462. LAMP STAND. EMIL HERBECK, New York, N. Y. Filed Mar. 5, 1921. Serial No. 449,717. 9 Claims. (Cl. 240—81.)



1. In a lamp structure a post consisting of separable sections, a coupling member secured to one of the sections and having a screw threaded connection with the companion section, said coupling member having a seat for a separable electrical connector and having a slot at the screw threaded connection aforesaid for the passage of conductor wires.

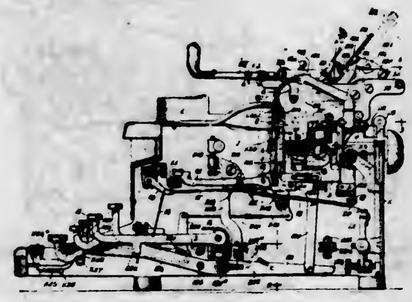
1,427,463. VENTILATOR. ROBERT HERDLICKA, Chicago, Ill. Filed June 30, 1921. Serial No. 481,525. 6 Claims. (Cl. 98—4.)



2. A ventilator of the class described including a vertical pipe, a conical member or portion supported above the pipe in spaced relation with the same, deflecting plates secured to the exterior of the vertical pipe and dished to form grooves or channels and connecting plates secured to the deflecting plates at the side portions thereof and spaced from the vertical pipe to form channels or passages for the air, said connecting plates having their side portions projecting over the deflecting plates and cooperating therewith to catch the air and produce upward currents of the same.

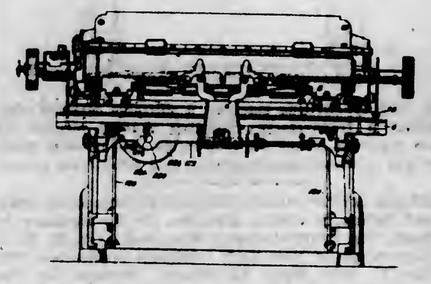
1,427,464. TYPEWRITING MACHINE. EDWARD B. HESS and LEWIS C. MYERS, Brooklyn, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed May 11, 1920. Serial No. 380,601. 58 Claims. (Cl. 197—60.)

1. A typewriting machine comprising: framing, a platen, normally forwardly recumbent type bars in front of the platen, a transversely movable carriage having a rearwardly extending overhanging portion, a monorail support for the carriage directly beneath the platen and in rear of the type-bars, a transversely extending guide rod carried by the overhanging portion, supporting means on



the framing in which said rod slides, a shiftable carriage mounted on the transversely movable carriage and supporting the platen, two parallel pairs of arms, one pair carried by the transverse guide rod and another pair pivotally supported in said overhanging portion, both pairs pivotally connected with the shiftable carriage.

1,427,465. TYPEWRITING MACHINE. EDWARD B. HESS and LEWIS C. MYERS, Brooklyn, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed May 11, 1920, Serial No. 380,601. Divided and this application filed June 28, 1920. Serial No. 392,265. 11 Claims. (Cl. 197—62.)

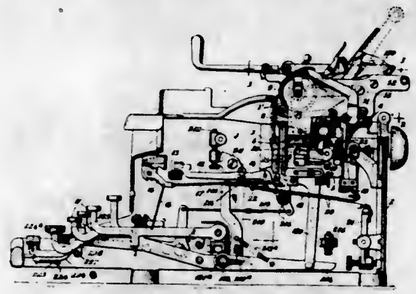


1. In a typewriting machine: a spring barrel shaft extending longitudinally of the machine, a spring barrel at the forward end of the shaft, a shaft supporting bracket in rear of the spring barrel, and a shift rail extending transversely of the machine in front of the spring barrel and having an opening for removal of said shaft that registers with its axis when the shift rail is in one of its two positions.

1,427,466. TYPEWRITING MACHINE. EDWARD B. HESS and LEWIS C. MYERS, Brooklyn, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed May 11, 1920, Serial No. 380,601. Divided and this application filed July 8, 1920. Serial No. 394,672. 15 Claims. (Cl. 197—73.)

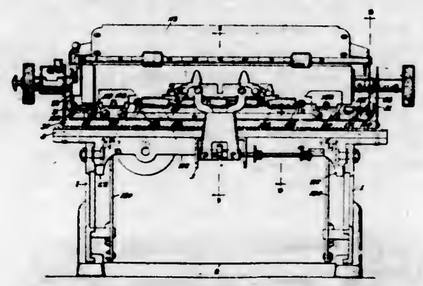
1. In a typewriting machine, a shift mechanism including two shift key levers, a tie rod connecting said levers at a point intermediate their ends; in combination

with a pivotal support, for the levers, in rear of the tie rod, and arms for the shift mechanism, mounted on the



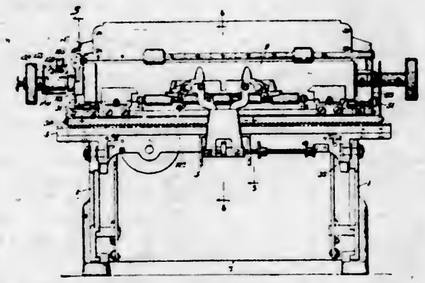
pivotal support independently of the levers and actuated by the latter.

1,427,467. TYPEWRITING MACHINE. EDWARD B. HESS and LEWIS C. MYERS, Brooklyn, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed May 11, 1920, Serial No. 380,601. Divided and this application filed Aug. 19, 1920. Serial No. 404,534. 13 Claims. (Cl. 197—60.)



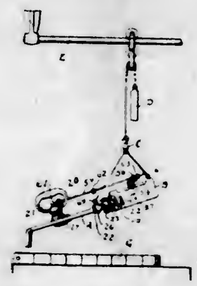
1. In a typewriting machine, a shiftable carriage comprising: a transversely extending channel member of sheet material, means for reinforcing said channel member, and a bumper stop seated in said reinforcing means.

1,427,468. TYPEWRITING MACHINE. EDWARD B. HESS and LEWIS C. MYERS, Brooklyn, N. Y., assignors to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed May 11, 1920, Serial No. 380,601. Divided and this application filed July 27, 1920. Serial No. 399,376. 2 Claims. (Cl. 197—114.)



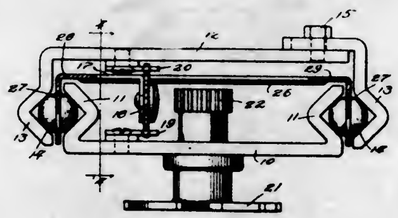
1. In a typewriting machine: a rotatable platen and platen shaft, a shiftable carriage mounting the platen, a transversely traveling carriage mounting the shiftable carriage, a ratchet rotatable with the platen, an arm mounted loosely on the platen shaft, a ratchet pawl carried by said arm, a line space advancing lever pivoted on the transversely traveling carriage, and a link between the pawl carrying arm and the line space advancing lever connected to the latter at a point substantially midway between the upper and lower case position of said link.

1,427,469. POWER TONGS. AUSTIN D. HOEFFLINGER, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 5, 1920. Serial No. 371,412. 12 Claims. (Cl. 294—88.)



1. In a device of the class described, a power operated tongs comprising pivoted jaws adapted to grip the work, a handle at the pivot point of the jaws, power operated means for imparting angular motion to the jaws, and a valve-controlling member adjacent the handle, adapted to be actuated to control the power operated means.

1,427,470. PLATEN-CARRIAGE MECHANISM FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed June 12, 1920. Serial No. 388,420. 2 Claims. (Cl. 197—69.)



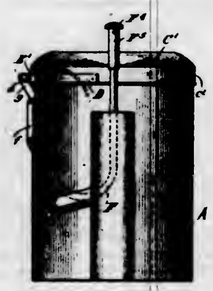
1. In a typewriter, a platen carriage support comprising a frame plate having laterally projecting guideways at the opposite edges thereof, a platen carriage comprising a plate arranged parallel with said frame plate and having laterally projecting guideways overlapping the guideways on said frame plate and forming ball races therewith, a ball retainer comprising a sheet metal frame interposed between said plates and having offset flanges projecting between said guideways for engaging roller bearings in said ball races, oppositely disposed racks supported by said parallel plates, and a gear wheel for engaging said racks journaled on said sheet metal frame and arranged parallel with the roller engaging flanges thereof so that the rollers in said ball races will be constrained to travel a distance equal to half the relative movement between said parallel plates.

1,427,471. SUSPENSION-BRIDGE CABLE. JAMES FORREST HOWE, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Oct. 6, 1921. Serial No. 505,820. 3 Claims. (Cl. 117—52.)



1. A large cylindrical suspension bridge cable composed of a plurality of individual units laid side by side in parallel relation to the axis of the cable and to each other, each of said units being composed of a plurality of strands, and each of said strands being composed of a plurality of single wires, said units and said strands being laid up spirally around core members, and suitable seizing for holding said units together.

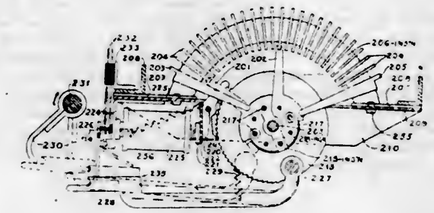
1,427,472. GARBAGE CONTAINER. CHARLES C. HUBER, Rochester, N. Y. Filed May 21, 1921. Serial No. 471,300. 17 Claims. (Cl. 220—36.)



12. A garbage container comprising a concrete body, a cover hinged thereon, a pair of curved arms fixedly connected to the cover, one for actuating it and the other for controlling its movement, a U-shaped tube embedded in the body, operating means movable endwise in said tube and cooperating with said curved actuating arm, a vertical tube embedded in said body, and a spring actuated plunger arranged in said vertical tube and cooperating with said curved controlling arm.

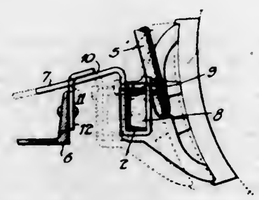
1,427,473. AUTOMATIC TELEPHONE SWITCH AND SYSTEM. DAVID S. HULFISH, Toronto, Ontario, Canada. Filed Dec. 8, 1917. Serial No. 206,189. 27 Claims. (Cl. 179—18.)

1. In combination, an electrical switch, magnets for said switch, means for propelling said switch controlled by said magnets, a prime mover supplying power for restoring said switch, and mechanical means operated by



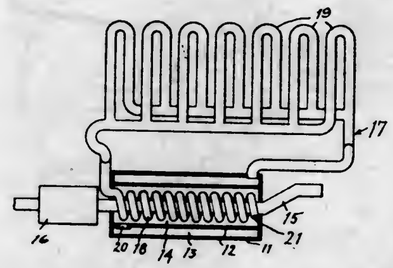
said prime mover independent of electromagnets for preventing the energization of said magnets during the restoration of the switch.

1,427,474. BRAKE-BEAM SUPPORT. CHARLES F. HUNTOON, Chicago, Ill. Filed July 11, 1921. Serial No. 483,834. 5 Claims. (Cl. 188—213.)



3. In a railway car, a brake beam provided with brake-shoe heads at its ends, hanger supports for the beam, a spring plank, an additional support and guide clamped to the brake beam, said additional support and guide being movable with the brake beam and projecting therefrom to be slidable over the spring plank.

1,427,475. AUTOMOBILE HEATER. SHIRO ISHIMATSU, Los Angeles, Calif. Filed Apr. 26, 1921. Serial No. 464,622. 1 Claim. (Cl. 237—123.)



In an automobile heating system, the combination with the motor exhaust tube and muffler, of a cylindrical casing disposed on the exhaust tube and concentric therewith and having its forward end adjacent to the muffler,

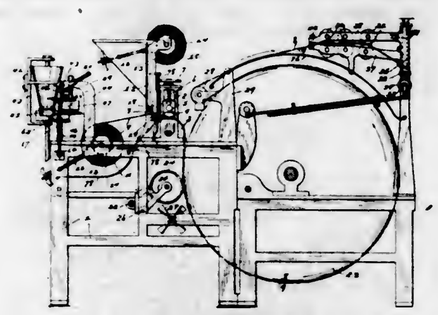
a cylindrical wall within the casing and forming outermost and innermost annular intercommunicating chambers concentric with the motor exhaust tube, radiator pipes located at a higher level than the cylindrical casing, a coil of pipe encircling the motor exhaust tube and within the innermost annular chamber, said coil having one end extending from the casing adjacent to the muffler and the opposite free end in open communication with the inner chamber, a conduit connecting the coil of pipe with the radiator pipes, and a conduit connecting the radiator pipes and the outermost annular chamber, the said coil of pipe, intercommunicating chambers, conduits and radiator pipes being arranged for a continuous circulating air passage.

1,427,476. COT. LANE JOHNSON, Ingram, Pa. Filed Feb. 1, 1921. Serial No. 441,549. 3 Claims. (Cl. 5—5.)



1. A collapsible folding cot comprising when set up two end frames each including a horizontal strut and legs pivotally connected to its outer ends, a supporting fabric arranged between and connected to said struts and having end portions projecting beyond the struts, one of said ends being provided with openings at and intermediate of its ends to receive anchoring pins, and an anchor provided with pin openings at and intermediate of its ends adjustably connected to the other of said cot ends whereby the fabric may be spread and held taut after the cot is set up and pins extending through the pin openings driven into the ground.

1,427,477. ADHERENTLY UNITING WEBS OF FABRIC. FRANK J. KAUFMANN and WILLIAM N. MARSDEN, Amsterdam, N. Y., assignors, by mesne assignments, to The Equitable Trust Company of New York, trustee, New York, N. Y., a Corporation of New York. Filed Sept. 3, 1919. Serial No. 321,387. 7 Claims. (Cl. 154—37.)



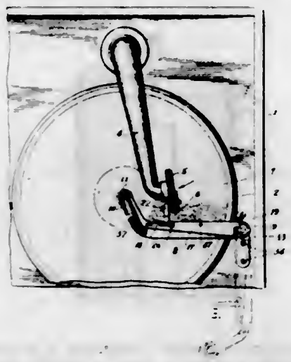
3. In a machine for adherently uniting a plurality of webs of fabric and in combination, a pair of pressure-rolls; means for feeding the webs to said rolls; an adhesive-powder-distributor in advance of said rolls arranged to distribute adhesive powder between neighboring surfaces of said webs; and atomizing means in advance of said rolls for combining moisture with said adhesive powder.

1,427,478. MOP HEAD. DUNCAN KENNER, New Orleans, La., assignor to Dry Hand Mop Company, New Orleans, La., a Corporation. Filed June 15, 1921. Serial No. 477,763. 5 Claims. (Cl. 15—120.)



1. In a mop-head, a hollow cylindrical ferrule, longitudinal ribs thereon and a stranded textile covering surrounding one end of the ferrule and fastened thereto with the strands parallel to said ribs.

1,427,479. AUTOMATIC START AND STOP ATTACHMENT FOR PHONOGRAPHS. SAMUEL KOHN, New York, N. Y. Filed Feb. 2, 1921. Serial No. 441,852. 17 Claims. (Cl. 192—116.)



1. In combination with two moving members, a unitary structure adapted for pivotal movement across the face of one of the moving members, and means rendered operative by the stopping of the other moving member to render a brake operative to stop the first moving member.

16. In a start and stop mechanism, the combination with a rotating element and a swinging element, of a brake normally restraining movement of the rotating element, an arm pivoted adjacent the rotating element for radial movement above the latter, means carried by the arm to move the brake to inactive position while the arm is being moved radially to operating position and to hold the brake in such position during the normal movement of the swinging element, a revolnble member propelled by the rotating element, a tripping lever, means

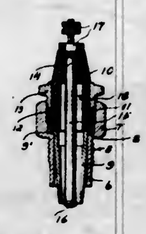
for bodily advancing the tripping lever during part of the normal movement of the swinging element, the said tripping lever being adapted for inoperative engagement with the revoluble member so long as it is being bodily advanced, and for operative engagement with the revoluble member when such bodily advance ceases to render the brake active to stop the rotating element.

1,427,480. SHOCK ABSORBER. JOSEPH KONIGSBERG, New York, N. Y., assignor to Lena Konigsberg, New York, N. Y. Filed Jan. 22, 1921. Serial No. 439,208. 1 Claim. (Cl. 155—9.)



In an automobile, a suitable support, a seat thereon, and shock absorbing means interposed between the support and the opposite ends of the seat, permitting a limited rocking movement of the seat longitudinally of the automobile, said means including pairs of members, one member of a pair being provided with a tapered lug and the other member having a flaring socket for receiving said lug.

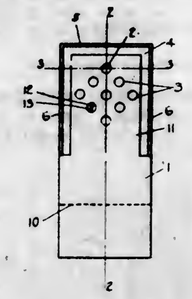
1,427,481. SPARK PLUG. FRANK KRAEMER, Milwaukee, Wis. Filed Aug. 25, 1919. Serial No. 319,823. 2 Claims. (Cl. 123—169.)



1. A spark plug comprising a centrally bored metallic casing, an insulating body secured in said casing and having a counterbore in the inner end thereof extending substantially the length of the casing and a central bore in the outer end of the body communicating with said counterbore, a tubular electrode secured within said casing and having its outer end projected therefrom and its inner end counterbored to substantially form a continuation of the counterbore in said insulating body, and a second electrode positioned within said insulating body and extended through said tubular electrode with its inner end terminating adjacent the outer end thereof and spaced therefrom to define a spark gap.

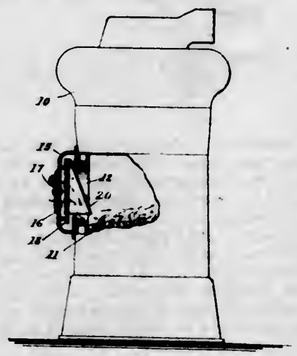
1,427,482. GAME APPARATUS. FELIX THEODORE HIOB DANIEL KRAUTH, New York, N. Y. Filed June 14, 1921. Serial No. 477,377. 1 Claim. (Cl. 46—61.)

A game board comprising a flat surface of a given width at one end and of restricted width for about half its length at the other end, and having grooves at each side of the restricted portion extending approximately to said given width, said grooves extending also across the restricted end, a premium pocket disposed



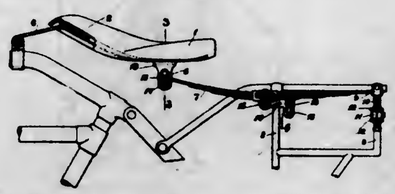
adjacent the restricted end, and a plurality of combined penalty and premium pockets of a size to receive two marbles disposed on the restricted portion.

1,427,483. FURNACE ATTACHMENT. WILLIAM H. KURTZ, Bloomfield, N. J. Filed Oct. 9, 1919. Serial No. 329,459. 3 Claims. (Cl. 110—175.)



1. In a boiler, the combination of a fire-door, and a baffle plate thereon, with a deflector comprising an inclined main deflecting wall and side walls, means along the free edges of said side walls adapted to engage the ends of said baffle plate, and means on said deflector adapted to engage with said baffle plate for supporting the same upon said baffle plate, substantially as specified.

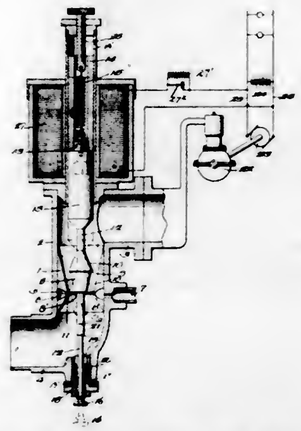
1,427,484. CYCLE, MOTOR-CYCLE, AND ANALOGOUS SADDLE. ARTHUR HILLSTEAD LAWRENCE, Birmingham, England, assignor to J. B. Brooks and Company Limited, Birmingham, England. Filed July 19, 1921. Serial No. 485,954. 5 Claims. (Cl. 208—100.)



1. A motor-cycle, cycle and analogous saddle comprising a saddle top, a link connecting the front of the

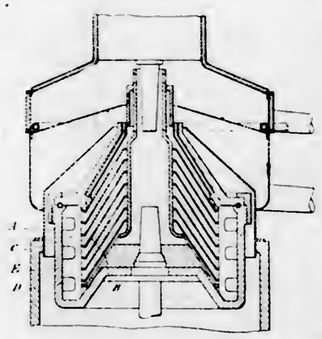
said top to the top-tube of the machine, a pair of compensated cantilever laminated leaf springs, means for connecting the forward ends of the springs to the rear of the saddle top, and stops upon a suitable part at the rear of the machine against which the rear ends of the springs abut.

1,427,485. GOVERNING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. JOHN F. LINDBERG, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,495. 13 Claims. (Cl. 290—40.)



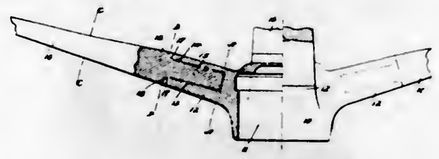
1. A carburetor having a Venturi tube formed with a liquid fuel inlet whose discharge end is at the narrow portion of the bore of said tube; and an air valve in the bore of the tube, and adjustable axially of the tube and into positions in which it is upon both sides of the discharge end of said liquid fuel inlet, in combination with an internal combustion hydro-carbon engine to which fuel is supplied through the carburetor; a generator of electricity driven by the engine; a load circuit supplied by the generator; and an electro-magnet connected with the load circuit and in closing relation to said valve.

1,427,486. SUPPORTING STRIP FOR CONICAL LINER PLATES IN THE BOWL OF CENTRIFUGAL SEPARATORS. HANS OLOF LINDGREN, Stockholm, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a Corporation. Filed May 24, 1922. Serial No. 563,409. 2 Claims. (Cl. 233—40.)



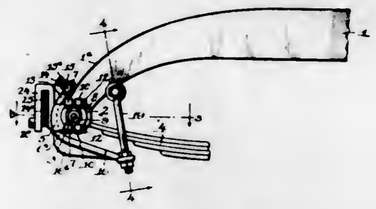
1. Bowls of centrifugal separators having conical liner plates and supporting strips provided at the wall of the bowl, characterized by the strips being provided with grooves adapted to allow equalizing of the deposit of mud in the annular space between the liner and the wall of the bowl.

1,427,487. STEERING-WHEEL CONSTRUCTION. EDWARD J. LOBDELL, Jr., Onaway, Mich., assignor to The American Wood Rim Company, Onaway, Mich., a Corporation of West Virginia. Filed Jan. 20, 1922. Serial No. 530,677. 11 Claims. (Cl. 74—33.)
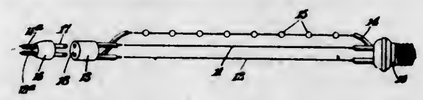


1. The method of securing wooden spokes to malleable metal hubs provided with one piece radiating sockets having open outer ends which consists in inserting in a socket the end of a wooden spoke which closely and tightly fits the interior surfaces of said socket and then applying pressure to opposite wall portions of said socket at its end sufficient to cause relative movement of said wall portions towards each other compressing the enclosed end of the wooden spoke and reducing the cross sectional size of the socket at its outer end portion.

1,427,488. BUMPER-SUPPORTING BRACKET. WILLIAM R. MCGOWEN, Chicago, Ill. Filed Mar. 3, 1922. Serial No. 540,693. 9 Claims. (Cl. 293—55.)



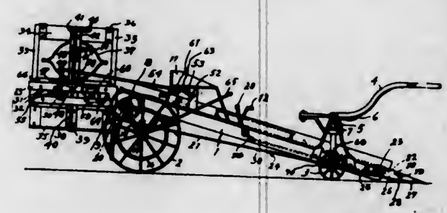
4. A bumper supporting bracket adapted to be attached at the end of a vehicle frame member and comprising a body portion abutting against the end of said frame member and clamped to a nut mounted on the end of a spring bolt extending transversely through the end of said frame member, an arm integral with said body portion extending rearwardly beneath said frame member, a bolt extending transversely through the end of said arm, and an endwise adjustable member connecting said bolt with the frame member.

1,427,489. LIGHTING SET. LEON B. MANSON, Brooklyn, N. Y., assignor to Franco Electric Corporation, a Corporation of New York. Filed Mar. 30, 1921. Serial No. 457,091. 3 Claims. (Cl. 240—10.)



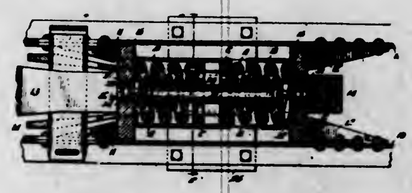
1. In a Christmas tree lighting set, the combination with a quick attachable connector, of a pair of leads in contact therewith, a second connector in contact with said leads, and a plurality of lamps joined in series and connected to one side of the leads within the first mentioned connector and to the other lead within the second mentioned connector.

1,427,490. TRAY-STACKING MACHINE. GENTARO MATSUSHITA, Fresno, Calif. Filed Jan. 8, 1921. Serial No. 435,933. 3 Claims. (Cl. 214—6.)



1. In a tray-piling machine, the combination with an inclined platform, of traction wheels supporting the platform at the rear thereof, truck wheels supporting the forward end of the platform, a conveyor moving on the platform and actuated by the movement of the traction wheels, a fixed shaft disposed at the forward end of the platform, tray-gathering forks pivotally mounted on the fixed shaft, spring means for maintaining the forks in contact with the ground, means for limiting the depth to which the forks penetrate the ground, means for aligning the trays with the conveyor prior to their delivery from the forks to the conveyor, means for stacking the trays as they are delivered from the conveyor, and means for dropping the stacked trays when a full stack is attained.

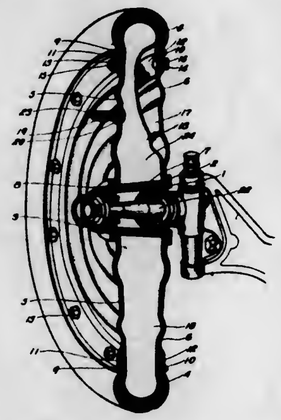
1,427,491. TANDEM DRAFT GEAR FOR RAILWAY CARS. MANUEL J. MENDES, Mexico, Mexico, assignor to William H. Miner, Chazy, N. Y. Filed July 11, 1921. Serial No. 483,666. 5 Claims. (Cl. 213—42.)



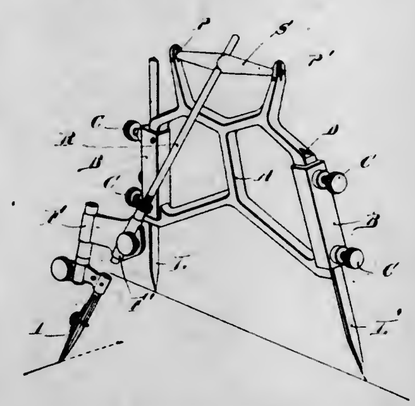
1. In a tandem shock absorbing mechanism, the combination with front and rear main followers; of two alined and relatively movable casings, each in engagement at its outer end with a main follower; tandem arranged shock absorbing units within said casing; a pair of centrally disposed, detachable, intermediate followers interposed between said shock absorbing units, each of said intermediate followers being engaged by one of the casings and slidable with respect to the other casing, each casing being slotted at its inner end to accommodate one of said followers; and means, adjustable as to length, attached at one end to one main follower and at the other end to the other main follower, said means extending between said main followers, through the centers of the shock absorbing units and through the intermediate followers.

1,427,492. WHEEL. WILLIAM F. MUEHL, Kansas City, Mo. Filed July 8, 1921. Serial No. 483,161. 1 Claim. (Cl. 152—29.)

A wheel comprising a hub, a shoe having spaced inner edges, webs connecting the hub to the spaced inner edges of the shoe, the webs having circular corrugations concentric with the hub, and an inflatable tube within the space confined by the hub, the webs and the shoe.



1,427,493. ARC-DESCRIBING INSTRUMENT. FORREST H. MURRAY, Cambridge, Mass. Filed July 3, 1920. Serial No. 393,891. 9 Claims. (Cl. 33—27.)



1. In an arc-describing instrument, a frame adapted for angular movement about an axis, an arm, adapted to carry a line-drawing instrument, mounted in pivotal relation to the frame, the said arm and frame being relatively adjustable to vary the angle between the pivotal axis of the arm and the axis of angular movement of the frame.

1,427,494. CABLE SPLICE. JOHN A. NEWBERRY, Huntington, W. Va. Filed Sept. 17, 1919. Serial No. 324,259. 2 Claims. (Cl. 173—263.)

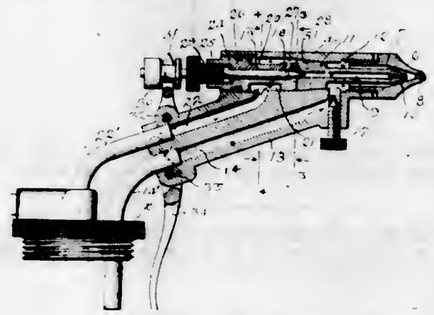
2. The herein described cable splicing clamp comprising a single piece of flexible material embodying a body portion of rectangular formation and having its side walls parallel, said body portion being formed at one end and midway between the side edges with a tapered integral tongue and formed in its opposite end with an inwardly tapered longitudinally disposed slot in longitudinal alinement with said tongue, the tongue and the slot being

co-extensive one with the other in both length and width, whereby when the body portion is flexed around the cable,



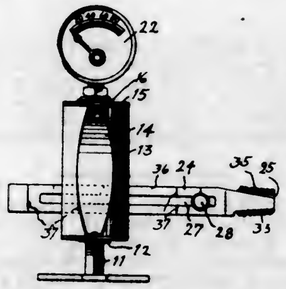
the tongue will be snugly received in the slot and the completed splice will be devoid of all open joints or seams.

1,427,495. PAINT SPRAYER. HARVEY O. NORRIS, Dayton, Ohio. Filed June 20, 1921. Serial No. 478,922. 6 Claims. (Cl. 91—45.)



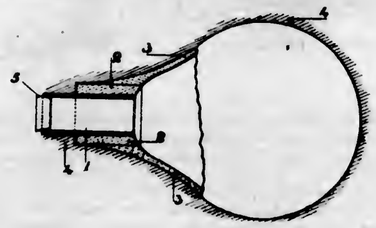
6. In an air brush sprayer, the combination with a reservoir, of a sprayer head comprising a barrel, a discharge nozzle at the extremity thereof, a jet nozzle concentrically located within the barrel to afford thereabout a concentric passage communicating with the discharge nozzle, a supply conduit for liquid leading from the reservoir to said passage, an adjustable closure member for said liquid supply conduit, a supply conduit for fluid under pressure leading to the barrel in the rear of the jet nozzle, a valve controlling the escape of fluid under pressure through the jet nozzle to induce a flow of liquid through said conduit to the concentric passage and thence through the discharge nozzle, and means for manually actuating the valve.

1,427,496. DENTAL PRESSURE GAUGE. IWAO ONO, Los Angeles, Calif. Filed Aug. 27, 1921. Serial No. 496,102. 9 Claims. (Cl. 265—22.)



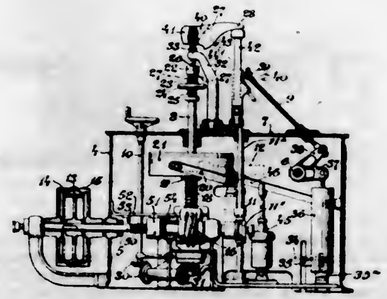
1. The combination with a standard, of a cylindrical body member supported by the standard, said body member having oppositely disposed apertures, an inner cylindrical casing revolubly mounted within the body member, a plunger working within the casing, a fluid pressure gauge mounted on the upper end of the revolubly casing and in communication with the chamber formed by the plunger and inner casing, fulcrum bars extending transversely through the body member and disposed in said apertures, a tiltable fulcrum bar disposed between the first-named fulcrum bars, a bearing member associated with the plunger and engaging with the tiltable fulcrum member, and a fulcrum bolt passing through said fulcrum bars, and adjustable relative thereto and relative to the bearing member on the plunger.

1,427,497. BULB FOR PNEUMATIC WARNING HORNS. JAMES FREDERICK SMITH, Birmingham, England. Filed Sept. 26, 1921. Serial No. 503,439. 3 Claims. (Cl. 116—139.)



3. A bulb for pneumatic warning horns comprising a hollow body part the mouth of which is moulded and vulcanised upon a thick rubber neck part which is separately formed and permanently secured upon a central tube forming the means for connecting the bulb to the horn.

1,427,498. LASTING MACHINE. MARIUS METHILTUS SØRENSEN, Vallerod, near Rungsted, Denmark. Filed July 11, 1919. Serial No. 310,097. 3 Claims. (Cl. 12—7.)

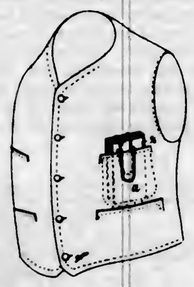


1. A lasting-machine for lasting with tension thread, including a lower system, an upper stem, a load for the upper stem, a thread-clamp on the latter stem, and means for moving the lower stem up to lift the upper stem against the load, to permit the thread to be secured to the clamp in an elevated position and for moving the lower stem down so that the load will become effective to stretch the thread.

1,427,499. POCKET GUARD. GEORGE B. SPEAR, Paterson, N. J. Filed Aug. 9, 1920. Serial No. 402,152. 3 Claims. (Cl. 2—151.)

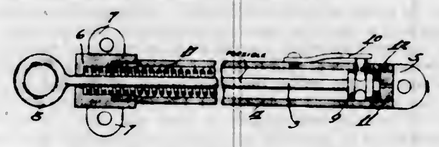
3. A pocket guard including, in combination, a one-piece U-shaped wire support adapted to be secured to a wall of the pocket and having opposite bearings in the

legs thereof, and a wire retainer formed U-shaped and having its extremities journaled in said bearings, said



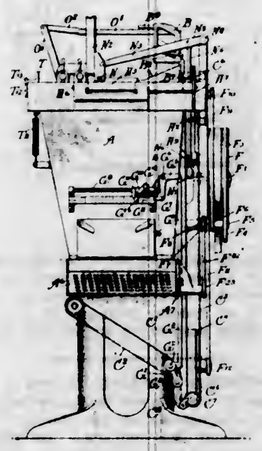
retainer being bent to form an inverted hook adapted to hook over the articles to be retained in the pocket.

1,427,500. AUTOMATICALLY-RELEASING ANCHORING DEVICE FOR AERIAL VEHICLES. MILES C. ST. JOHN, Chicago, Ill. Filed Aug. 2, 1920. Serial No. 400,706. 5 Claims. (Cl. 244—2.)



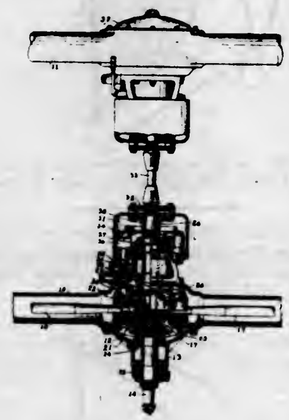
1. The combination with an aerial vehicle, of a casing secured thereto, flexible anchoring means normally carried in the casing and adapted to be withdrawn therefrom, and resilient means in the casing and a part on the flexible means contacting with said resilient means only after a lost motion.

1,427,501. TYPOGRAPHICAL COMPOSING, CASTING, AND DISTRIBUTING MACHINE. JOHN S. THOMPSON, San Francisco, Calif., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,476. 91 Claims. (Cl. 199—11.)



1. In a typographical machine, the combination of a matrix magazine, means for releasing the matrices therefrom, and mechanism for assembling the released matrices in line, the said mechanism including elevating means for carrying the matrices to their place of assemblage.

1,427,502. AXLE. VIGGO V. TORBENSEN, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 4, 1920. Serial No. 401,114. 2 Claims. (Cl. 180—22.)



1. In axle construction, the combination of a housing having openings at the front and rear, a differential carrier arranged in one of said openings and having a shaft mounted therein, a gear on the inner end of said shaft, a differential mounted in said carrier and having a gear meshing with the first-mentioned gear, and a cover for the other of said openings having a shaft mounted therein, the latter shaft having a gear at its inner end meshing with said differential gear.

1,427,503. TOOTH CLEANING AND POLISHING BUR. CHARLES H. WAKE, Los Angeles, Calif. Filed Feb. 5, 1921. Serial No. 442,794. 2 Claims. (Cl. 32—10.)

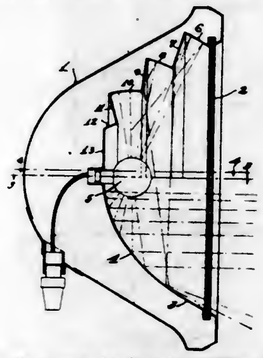


1. An article of the class described comprising an elongated member tubular throughout its length and having a beveled end, the other end of the member constituting means for receiving a porte polisher, said member comprising coarse flexible rubber mixed throughout the thickness and length of its walls with a finely comminuted abrasive.

1,427,504. LIGHT-CONTROLLING DEVICE. JOHN WHYTE, Chicago, Ill., assignor to Warner-Patterson Company, a Corporation of Illinois. Filed July 20, 1921. Serial No. 486,124. 1 Claim. (Cl. 240—41.)

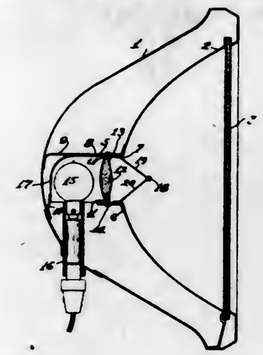
In a headlight, a reflector comprising a lower half of parabolic shape, and an upper half comprising spherical

segments whose centers are on the axis of said parabola at or behind the focus, and conical surfaces between said



segments, the cones having a common vertex at said focus, and a lamp situated substantially at the focus.

1,427,505. HEADLIGHT. JOHN WHYTE, Chicago, Ill., assignor to Warner-Patterson Company, a Corporation of Illinois. Filed July 20, 1921. Serial No. 486,125. 6 Claims. (Cl. 240—41.)



2. In combination, a lamp, a lens for bringing the light from said lamp to a focus, a small complete spherical mirror at said focus, and a parabolic mirror whose focus is at said spherical mirror.

1,427,506. URETHANE OF THE TRICHLOROETHYLIC ALCOHOL. RICHARD WILLSTÄTTER and WALTHER DUISBERG, Munich, and TÜRGEN CALLSEN, Elberfeld, Germany, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Aug. 11, 1921. Serial No. 491,514. 1 Claim. (Cl. 260—106.)

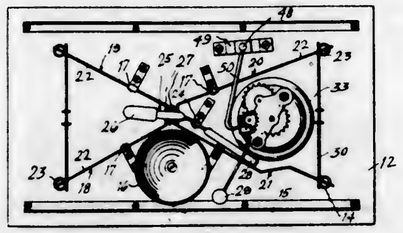
As a new article of manufacture the urethane of trichloroethylic alcohol, having most probably the formula:

$$CCl_3—CH_2O—CO.NH_2$$

forming when crystallized from ligroin white needles melting at from 64–65° C., being easily soluble in alcohol and ether; soluble with difficulty in cold water; and adapted for being used in medicine as soporific.

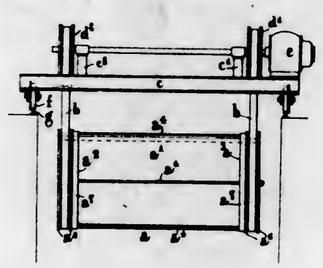
1,427,507. ALARM FOR STRONG BOXES. JUNJI YANO, Los Angeles, Calif. Filed July 22, 1921. Serial No. 486,883. 2 Claims. (Cl. 116—99.)

1. The combination with a strong-box base plate having a plurality of apertures, of a bell on the upper side of the base-plate, a plurality of brackets projecting upwardly from the base-plate, tiltable levers pivotally connected to the brackets and having relatively long and short arms, plungers pivotally connected to the long arms of the tiltable levers and projecting normally through the apertures in the base-plate, springs having their middle part connected to the base-plate and their extremities bearing upon the tiltable levers adjacent to the plungers, a spring-actuating mechanism mounted on the base-plate and having a key-winding shaft, a bell-hammer operated



by the spring actuating mechanism and arranged to strike the bell, a rock-lever bracket mounted on the base-plate, a rock-lever pivotally connected to the rock-lever bracket, a weighted arm of said rock-lever projecting over the ends of said tiltable levers, the opposite arm of the rock-lever being arranged as a detent for the bell-hammer, a stop lever for the bell-hammer, a shaft for the stop-lever adapted to be actuated by a key, barrel sockets for the key shafts, and a plurality of blind barrel sockets adjacent to the first-named sockets.

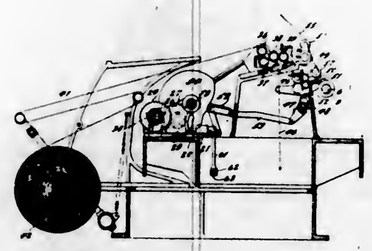
1,427,508. MOLDING OF OBJECTS BY MEANS OF CENTRIFUGAL FORCE. HERBERT PAUL AMPHLETT and EDWIN LANDSEER JONES, Victoria, London, England, assignors to The Hume Pipe and Concrete Construction Company, Limited, London, England. Filed Mar. 14, 1922. Serial No. 543,742. 8 Claims. (Cl. 22—65.)



1. Apparatus for carrying out a continuous process of molding objects by centrifugal force comprising in combination an elevated trackway, a plurality of bogies thereon, a plurality of molding casings and means on each bogie for rotatably suspending one of said casings.

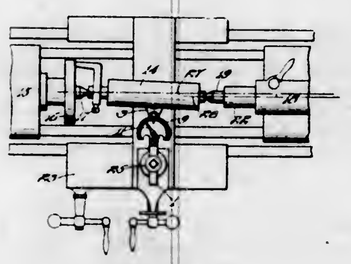
1,427,509. WINDING MACHINE. JAMES C. ANDERSON, East Orange, N. J., assignor to Varley Duplex Magnet Company, a Corporation of New Jersey. Filed June 18, 1920. Serial No. 389,864. 16 Claims. (Cl. 242—10.)

1. In a winding machine, the combination of a winding spindle, mechanism for winding strand material in successive superposed layers thereon to form a helix and mechanism for winding sheet material between the layers



and for varying the number of turns thereof between the adjacent layers of the same helix.

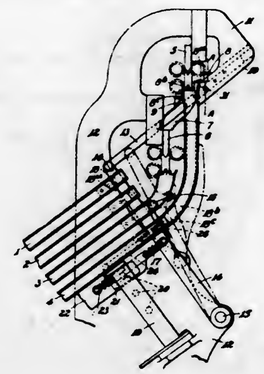
1,427,510. TAPER ATTACHMENT FOR LATHES. WILLIAM AVERY, Foxboro, Mass. Filed June 16, 1921. Serial No. 478,150. 11 Claims. (Cl. 33—181.)



1. A taper finder for indicating the degree of taper of an article, comprising an elongated holder, a graduated scale and indicator mounted on said holder, a movable straight edge member mounted on said holder, a spring which normally retains the straight edge at a certain angle with relation to the axis of the holder, and means connecting said movable member with said indicator, whereby when said straight edge is pressed against a tapered surface and the holder is maintained with its longitudinal axis at right angles to the longitudinal axis of said tapered article, the said indicator will be moved to indicate on the scale the degree of taper.

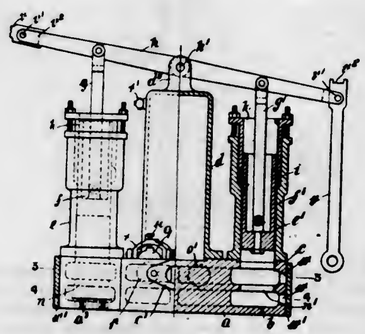
1,427,511. DISTRIBUTING MECHANISM OF TYPOGRAPHICAL COMPOSING AND CASTING MACHINES. JOHN ERNEST BILLINGTON, Altrincham, England, assignor to Linotype and Machinery Limited, London, England. Filed Apr. 5, 1921. Serial No. 458,817. 30 Claims. (Cl. 199—40.)

1. In a machine such as described, the combination with a plurality of magazines adapted to contain matrices of respectively different fonts, and a smaller plurality of distributors having a variable co-operating function, of adjustable font selecting mechanism associated with the distributors, and means adapted to automatically



vary the font-selecting function of the distributors simultaneously with the variation of their co-operating function.

1,427,512. PUMP AND THE LIKE. FRANCIS ARTHUR JAMES BROWN, Clifton, England. Filed Feb. 2, 1921. Serial No. 441,825. 4 Claims. (Cl. 103—170.)

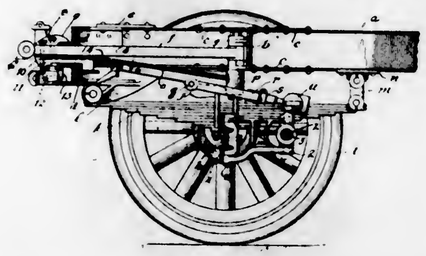


1. Apparatus for raising or forcing fluids, semi-fluids and other substances, comprising a casing having two chambers superposed one above the other and each divided into two divisions, one of the divisions of the lower chamber being connected to a source of supply of the material under treatment and communicating with one of the divisions of the upper chamber through a port, whilst one of the divisions of the upper chamber is connected on the one hand to a delivery pipe and on the other hand communicates through a port with one of the divisions of the lower chamber, a pump for forcing the material through said chambers and ball valves of unequal weight for controlling the passage of the material through the said ports, for the purpose set forth.

1,427,513. TRAILER STEERING GEAR. ORRA E. BYRON, Louisville, Ky. Filed Oct. 16, 1919. Serial No. 331,016. 10 Claims. (Cl. 280—33.5.)

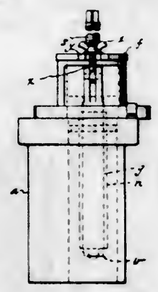
1. In a trailer, the combination of a chassis frame, an axle and wheels, springs supporting the chassis frame upon the axle, and steering gear comprising a steering

lever swivelled to the chassis frame and having upper and lower parts joined together by a knee, and a lower steering lever swivelled upon a vertical pivot upon the axle, and a universal joint between the upper and lower



levers located in the middle of the vehicle when the wheels are parallel with the axis of the chassis frame and substantially on the level of the springs.

1,427,514. CYLINDER-REAMING TOOL. ALFONSE CALLEBERT, Jackson, Mich., assignor to Rex Machine Tool Co., Jackson, Mich., a Corporation of Michigan. Filed Feb. 2, 1921. Serial No. 441,773. 7 Claims. (Cl. 77—2.)



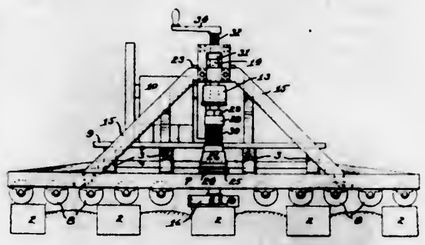
1. In a tool for the purpose specified, the combination of a body, a hollow guide sleeve depending from the body, a cutter-carrying sleeve rotating on said guide sleeve, a cutter carried on the sleeve, and means for driving the cutter-carrying sleeve, said means extending through the hollow sleeve and engaging the end of the cutter-carrying sleeve remote from the said body.

1,427,515. IODINE FUMIGATOR. WESTERN L. CAPELL, Omaha, Nebr. Filed Aug. 3, 1920. Serial No. 401,024. 3 Claims. (Cl. 128—184.)



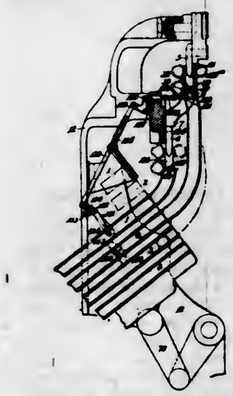
1. In a device of the character described, a closed container, a tube extending through said container and provided with air inlet and air outlet openings positioned at the lower and upper portions of said tube, respectively, the tube being divided into inlet and outlet portions communicating with the respective openings, and means for causing air to flow through said tube from the inlet end thereof.

1,427,516. RAILWAY-TIE-ADZING MACHINE. FRANK V. CARMAN, Oakland, Calif. Filed Dec. 27, 1921. Serial No. 524,951. 3 Claims. (Cl. 144—133.)



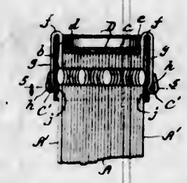
1. A railway-tie adzing machine comprising a carriage adapted to be moved along a railway track; a substantially vertically disposed rotatable shaft, carrying at its lower end a cutter head adapted to hew across the ties as the carriage advances; a laterally rocking, rotary bearing for supporting the lower portion of the shaft on the carriage, and in which the shaft is vertically movable, said bearing consisting of a rocking block mounted on the carriage and a collar fixed upon the shaft above and rotatably supported on the block; a second collar adjustably mounted on the shaft above the first collar; a spring between said collars to normally hold the shaft up and lift its cutter head above the ties; and a vertically and laterally adjustable thrust bearing associated with the top of the shaft, to vertically adjust and to tilt the shaft and cutter head.

1,427,517. DISTRIBUTING MECHANISM OF TYPOGRAPHICAL COMPOSING AND CASTING MACHINES. ROBERT DUDLEY CARTER, Broadheath, England, assignor to Linotype and Machinery Limited, London, England. Filed May 4, 1921. Serial No. 466,845. 17 Claims. (Cl. 199—40.)



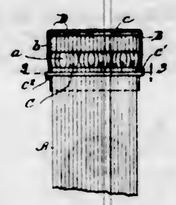
1. In a machine such as described, the combination with a column of magazines adapted to contain matrices of respectively different fonts, two distributors adapted to distribute matrices simultaneously to two adjacent magazines, and magazine-moving means adapted to bring the magazines successively into operative relationship with the distributors, of a font-selector bridge adapted to determine the level at which matrices pass a given point in their path towards the distributors, and means controlled through the operation of the magazine-moving means adapted to move the bridge to different operative positions.

1,427,518. BUNDLED WIRE. SPENCER C. CARY, Brooklyn, N. Y., assignor to Cary Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed June 14, 1922. Serial No. 568,115. 8 Claims. (Cl. 216—59.)



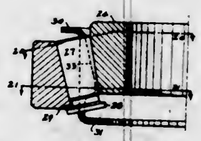
5. Bundled wire the end portion of which is encased by a cap, said cap being provided with a groove, and a retainer for some of the wires, said retainer occupying said groove of the cap.

1,427,519. BUNDLED WIRE. SPENCER C. CARY, Brooklyn, N. Y., assignor to Cary Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed June 14, 1922. Serial No. 568,116. 11 Claims. (Cl. 206—59.)



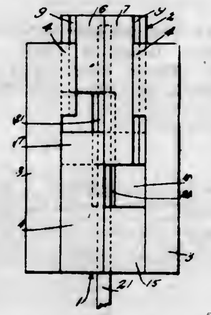
9. Bundled wire comprising pieces assembled in parallel relation, a slitted cap fitted upon an end portion of the bundle, and a fastening member extending within the bundle and wrapped upon the slitted portion of said cap.

1,427,520. ROLLER BEARING. LYMAN W. CLOSE, Toledo, Ohio, assignor to The Rock Bearing Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 19, 1922. Serial No. 530,396. 5 Claims. (Cl. 64—62.)



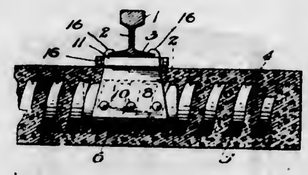
5. The hereindescribed method of permanently assembling a series of tapered rollers, having flanges on their smaller ends, with the outer race member of a roller bearing and a cage that is provided with end flanges and roller-spacing bridging members connecting said flanges forming roller spaces therebetween, said members having wings along their opposite edges projecting inwardly, which consists in first inserting the rollers in the roller spaces on the outside of the cage with the larger end of the body of the rollers in narrower end of said spaces, swinging the flanged ends of the rollers through said spaces to a position inwardly of their final position, positioning the outer race member, moving the flanged ends of the rollers outwardly into contact with the rolling surface of the outer race member and with the roller flanges engaging a side face of said member, and then closing said wings around the rollers to retain them in position.

1,427,521. UPSETTING DIES. WILLIAM L. CLOUSE, Tiffin, Ohio, assignor to The National Machinery Co., Tiffin, Ohio. Filed Feb. 27, 1920. Serial No. 361,735. 3 Claims. (Cl. 78—61.)



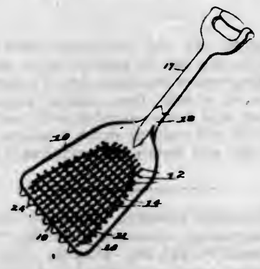
1. An upsetting device for forging machines including opposed guide plates, a pair of contacting stationary gripping dies interposed between the plates at one end and having stock receiving grooves in their meeting faces, an extension on one of the dies, opposed movable gripping dies slidably engaging the guide plates and having opposed stock receiving grooves in their meeting faces terminating in end walls constituting thrust faces for engaging one end of the stock, and an extension upon one of the movable dies for lapping and slidably engaging the extension on the opposed stationary die.

1,427,522. RAILWAY TIE. GEORGE W. DALLIMORE, Oakland, Calif. Filed Feb. 14, 1922. Serial No. 536,425. 6 Claims. (Cl. 238—87.)



2. The combination in a concrete railway tie and a tubular core therein, of spaced rail bearings secured to said core, cushion members within said core beneath said bearings, and means for fastening rails to said rail bearings.

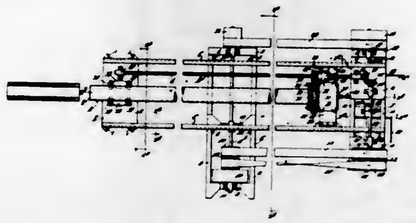
1,427,523. SHOVEL OR SCOOP. ELLA WOODNUTT DOYLE, Atlanta, Ga. Filed Jan. 13, 1921. Serial No. 437,064. 3 Claims. (Cl. 83—60.)



1. A shovel blade formed with a relatively large central opening, a grid applied to the said blade over the said

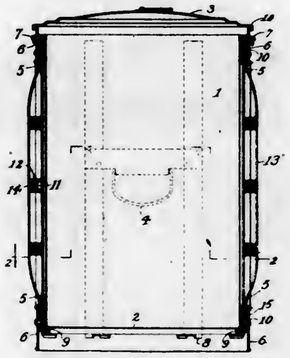
opening and provided with anchoring projections passing through the blade and secured, and a reenforcing plate extending beneath the forward edge of the blade and held thereto by certain of the said projections.

1,427,524. APPARATUS FOR SEPARATING CEMENTED WELL CASINGS. ROBERT W. EDENS and SIMON EDWARD CLEVER, Fullerton, Calif. Filed Sept. 7, 1920. Serial No. 408,601. 10 Claims. (Cl. 255—46.)



1. An apparatus of the class described combining a frame, a tool carriage slidable on the frame, a tubular tool rotatable on the carriage, means for rotating the tool, means for translating the carriage, and means associated with the carriage and adapted to render the carriage translating means ineffective when said carriage reaches the end of its operating stroke.

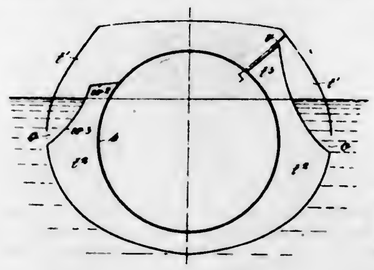
1,427,525. DISPOSAL CAN. CHARLES H. FELTEN, West Hoboken, N. J. Filed Dec. 28, 1920. Serial No. 433,690. 4 Claims. (Cl. 220—12.)



1. In a disposal can, the combination with a can, of a frame in which said can is adapted to be secured, said frame embodying supporting rings, frame elements secured at each end to one of said rings, resilient strips extending outwardly from said frame, supplemental resilient means cooperating with said resilient strips, means in said frame to support a can, and means for locking said can in said frame.

1,427,526. MARINE VESSEL. HERMANN GUSTAV CARL FRAHM, Brahmsallee, Hamburg, Germany. Filed June 23, 1920. Serial No. 391,240. 2 Claims. (Cl. 114—125.)

1. A submarine comprising an inner air-tight shell, an outer shell spaced therefrom and having apertures therein below the water line and partitions disposed symmetrically on each side of the longitudinal axis of the submarine between said shells, each partition extending inwardly from a point just below the apertures in the outer shell in a substantially continuous curve to a point above the

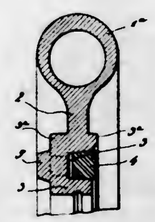


water line and thereafter turning abruptly inwardly against the inner shell in such a manner that a pocket like water chamber is formed between said partition and outer shell, said chamber being spaced from said inner shell.

1,427,527. PROCESS OF CANDY MAKING. FRANK C. GEPHART, New York, N. Y., assignor to Huyler's, New York, N. Y., a Corporation of New York. Filed May 5, 1921. Serial No. 467,149. 4 Claims. (Cl. 107—54.)

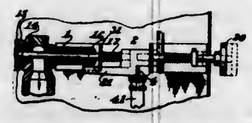
1. The process of making candies having coated centers, which consists in forming the candies, providing an opening in the shell for the escape of a part of the center to relieve the pressure, and thereupon closing said opening.

1,427,528. CORE FOR FORMING AUTOMOBILE TIRES. ALEXANDER GERMAN, Akron, Ohio. Filed Sept. 4, 1920. Serial No. 408,141. 3 Claims. (Cl. 18—45.)



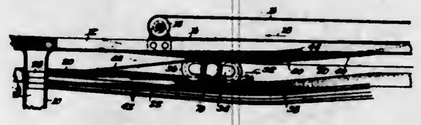
1. A core of the character described comprising, a plurality of separate sections circular in cross section and having inwardly extending portions provided in one side thereof with grooves, which, in the assembled condition of the sections, provide an annular channel, an annular locking ring adapted to be forced into and out of said channel by a substantially direct movement axial of the completed core and a lug formed upon the opposite face of each of said extensions having its outer face spaced from the radial axis of the core a distance approximately equal to the radius of the sections whereby deformation of said sections during application of said ring is prevented.

1,427,529. COIN-CONTROLLED AIR VALVE. MCLAIN GIBBS and JAMES H. DAVIS, Everett, Wash. Filed Sept. 24, 1919. Serial No. 325,956. 3 Claims. (Cl. 299—80.)



1. In combination, a valve normally closed, an outlet hose attached to said valve, means for locking said valve in open position, said means including a pivoted lever adapted to support the end of said hose to be thereby depressed to release the locking means.

1,427,530. MEANS FOR STEADYING PAPER CARRIED BY SMUT-SHEET MACHINES. JAMES E. GILBERT and GLENN W. HARRIS, Chicago, Ill., assignors to Gilbert Slip-Sheeting Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1920. Serial No. 362,534. 5 Claims. (Cl. 34—11.)



1. In mechanism of the class described, a suitable frame, a flexible print sheet support, movable from a position outside the machine to a position where it is stretched approximately horizontally across the machine, means carrying the print sheet support to said stretched position and withdrawing from under said print sheet support and in substantial contact therewith, a track guiding said print sheet support moving mechanism so shaped that in withdrawing the print sheet support it is given a minimum amount of agitation by the passage of said supporting mechanism.

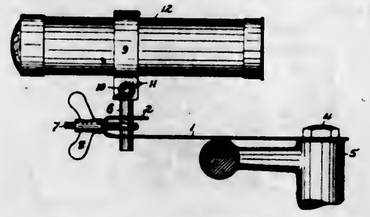
1,427,531. COLLAR FASTENER. JOHN GUSSETT, Bridgeport, Conn. Filed Nov. 5, 1921. Serial No. 512,999. 1 Claim. (Cl. 24—101.)



A collar fastener comprising a longitudinally curved body having a top edge which in its entirety lies in a single plane and merges on a smooth curve into a tongue, said tongue being parallel with and arranged transversely of said body, said top edge of said body being constructed to lie closely adjacent to the button hole of a shirt band, the material of said fastener constituting said smooth curve lying in said button hole, and the material of the longitudinally curved body lying in its entirety within said shirt band, whereby when said body is between the folds of a shirt band and said tongue is inserted through said button hole, upward pressure against said tongue will be resisted by the engagement of said top edge against one of said folds.

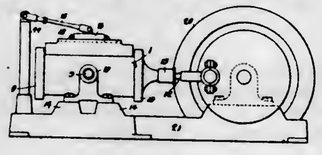
1,427,532. LAMP BRACKET FOR BICYCLES. CARL W. HAMBROCK, Fort Wayne, Ind. Filed May 9, 1921. Serial No. 467,975. 1 Claim. (Cl. 240—52.)

In a device of the class described, a spring bar having a hooked end; an eye bolt the stem of which extends through the front end of the hook and provided with a nut; a lamp post extending through the hook and the eye-



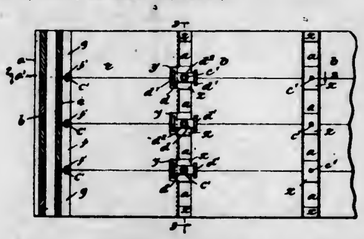
bolt; and a clamp pivotally mounted on the top of the lamp post.

1,427,533. OSCILLATING VACUUM PUMP. BERTRAM GEORGE AIKEN HARKNESS and HEINRICH FRANZ VOSSELER, Stratford, Taranaki, New Zealand. Filed Mar. 29, 1920. Serial No. 369,713. 5 Claims. (Cl. 230—37.)



1. In a pump, an oscillating cylinder provided with a valve seat, a piston reciprocally mounted in the cylinder, said cylinder having ports extending from the valve face to the opposite extremities of the cylinder, a hollow valve movable on said valve face, and a link pivotally connected at one end at a point removed from the axis of movement of the cylinder and connected at its opposite end with the valve whereby the latter is moved across the valve seat co-incident with the oscillation of the cylinder.

1,427,534. CONSTRUCTION OF HOLLOW WALLS FOR BUILDINGS. HERBERT V. KENT, London, England. Filed July 8, 1919. Serial No. 309,415. 6 Claims. (Cl. 72—16.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

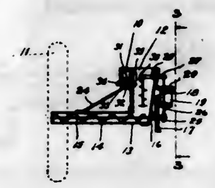


1. A wall for buildings comprising slabs forming the outside of the wall, other slabs forming the inside of the wall, uprights for supporting the slabs, projections upon said uprights engaging the ends of the outer slabs, bolts projecting from said uprights, clamps secured by nuts upon the bolts for securing the outer slabs to the uprights, spacing means for maintaining the inner slabs in spaced relationship to the outer slabs, and means upon the aforesaid bolts for holding the inner slabs against the spacing means.

1,427,535. SAND DISTRIBUTOR FOR MOTOR VEHICLES. GEORGE B. LAMPING and JAMES A. DU LANEY, Seattle, Wash. Filed May 9, 1921. Serial No. 468,072. 6 Claims. (Cl. 291—23.)

1. Sand distributing apparatus for motor vehicles comprising a sand receptacle, a tubular conduit extending

outwardly from said sand receptacle to a point near a wheel of said vehicle, a conveyor screw in said conduit, a motor for rotating said screw and means arranged to be actuated by the application of the brakes of said vehicle for closing a circuit to said motor.



3. A sander for motor vehicles comprising a sand receptacle, apparatus for discharging sand from said sand receptacle, electrical devices for actuating said sand discharging apparatus and means for automatically closing a circuit to said electrical devices in response to a sudden check in the speed of movement of said motor vehicle.

1,427,536. GOLF TRAINING, EXERCISING, AND PRACTICING APPARATUS. EUGENE MCLEAN LONG, New York, N. Y. Filed Dec. 18, 1920. Serial No. 431,538. 4 Claims. (Cl. 46—4.)



1. A mat with elastic, aligned tabs arising therefrom which are spaced to be struck successively by a golf club for the purpose of indicating the proper direction of a golf stroke and practicing this stroke.

1,427,537. ARTIFICIAL HOLE FOR INDOOR GOLF PUTTING. EUGENE MCLEAN LONG, New York, N. Y. Filed Apr. 7, 1921. Serial No. 459,280. 3 Claims. (Cl. 46—4.)



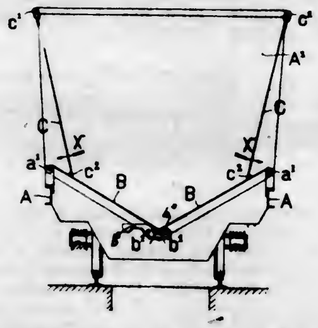
1. In a device of the class described a set of filaments arranged to form an enclosure and means for supporting the same composed of a flat base with ears connecting corresponding portions of the filaments.

1,427,538. GOLF-PRACTICING APPARATUS. EUGENE MCLEAN LONG, New York, N. Y. Filed July 23, 1921. Serial No. 487,046. 4 Claims. (Cl. 46—4.)



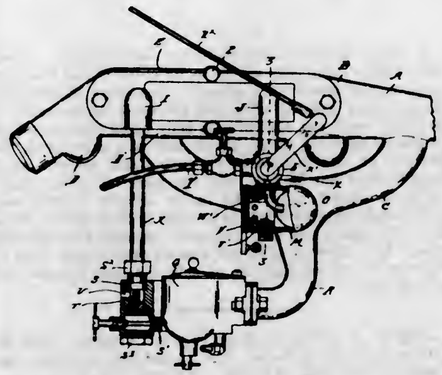
1. In an apparatus of the class described, a mat having a plurality of tabs arising therefrom and a line adjacent to the tabs to indicate the direction and position of the stroke when the tabs are properly hit.

1,427,539. SELF-DISCHARGING CAR. RUDOLF LORENZ, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Feb. 9, 1921. Serial No. 443,649. 2 Claims. (Cl. 105—260.)



1. A self-discharging car having bottom flaps suspended on fixed parts of the car and movable side walls partaking of the discharging movement of said bottom flaps and suspended on fixed parts of the car, the lower edges of said side walls resting upon the corresponding bottom flap at points lying nearer to the middle plane of the car than the points at which the corresponding bottom flaps are suspended.

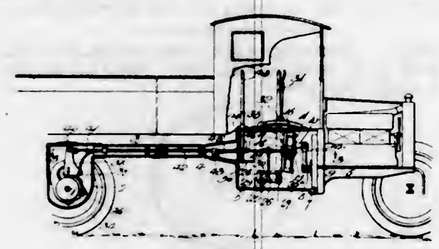
1,427,540. FUELIZING MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. WILLIAM MARTIN, Detroit, Mich. Filed Apr. 4, 1921. Serial No. 458,484. 5 Claims. (Cl. 123—122.)



1. A manifold comprising an exhaust portion having an opening in the side thereof and an intake portion

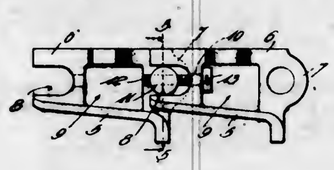
integral with said exhaust portion, a cover for said opening provided with an integral inwardly projecting retort portion, the latter being in the form of an open ended tube having hollow walls, and integral inlet and outlet connections to said retort, the former being connected to a source of liquid fuel and the latter being connected to the intake manifold.

1,427,541. AUTOMOBILE TRANSMISSION. SAMUEL S. MORTON, Philadelphia, Pa. Filed June 27, 1921. Serial No. 480,699. 15 Claims. (Cl. 74—53.)



1. A transmission mechanism comprising a pivotally mounted operating member having a pair of parallel guideways extending across and from opposite sides of its pivotal axis, a pair of shoes slidably engaged with said guideways respectively, means for adjusting said shoes oppositely along said guideways, a pair of shaft-driving intermittent grip devices spaced from said operating member, connecting rods between said shoes and said intermittent grip devices respectively, and means for oscillating said operating member.

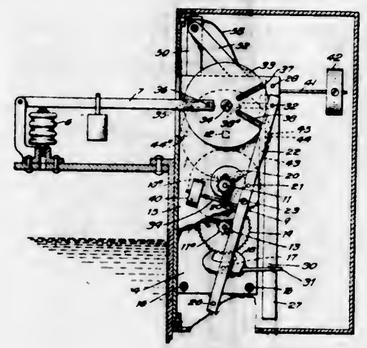
1,427,542. ENDLESS-TREAD CHAIN. SAMUEL S. MORTON, Philadelphia, Pa. Filed Aug. 1, 1921. Serial No. 489,056. 3 Claims. (Cl. 305—10.)



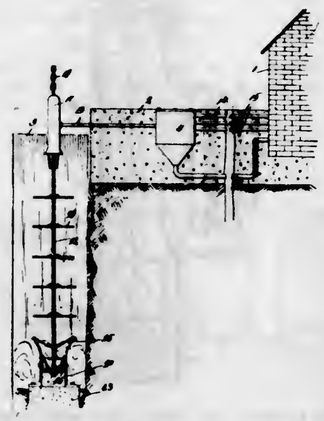
1. An endless tread chain comprising a plurality of overlapping links each having a longitudinal slot in one end, a pivot pin carried by the other end of each of said links and slidably received in the slot of the next adjacent link, and screw-threaded adjusting devices acting on each pivot pin and reacting on the next link engaged by said pivot pin, for adjusting the pin in its receiving slot.

1,427,543. ELECTRIC-ALARM TRANSMITTER. JAMES D. NELSON, Cincinnati, Ohio. Filed June 4, 1917. Serial No. 172,565. 5 Claims. (Cl. 177—382.)

1. An electric signal transmitter consisting of a signal sending mechanism, a transmitter tripping trigger operatively connected therewith, means responsive to variations in conditions within a system to be supervised, adapted to release the trigger to trip the transmitter, and a second means adapted to return the trigger to and retain it in its normal position to permit operation of the condition responsive means.



1,427,544. ENDLESS-CHAIN MOTOR. SADAMA ORIOKA, Palama, Honolulu, Territory of Hawaii. Filed Sept. 4, 1920. Serial No. 408,259. 2 Claims. (Cl. 253—20.)



1. A device of the class described comprising a casing, a cog wheel in said casing, a chain trained over said cog wheel, hinged paddles secured on said chain, a pair of spaced guides mounted below the casing, a cog wheel journalled between said guides and adapted to have said chain trained thereover, said guides provided with curved ends diverging from each other at their upper ends for closing the hinged paddles as they pass therebetween in the manner and for the purpose specified.

1,427,545. DEVICE FOR OPENING CANS AND DISCHARGING THEIR CONTENTS. JAMES S. ORR, Pocatello, Idaho. Filed Aug. 9, 1920. Serial No. 402,192. 3 Claims. (Cl. 226—93.)

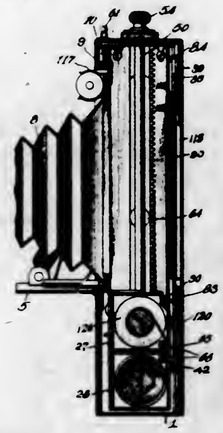
1. A device for charging batteries, comprising a cylin-

drical body to receive and somewhat closely encompass a can or container; a funnel attached to the lower end



of said body and having an elongated tube; and a perforate spreader at the lower end of the tube.

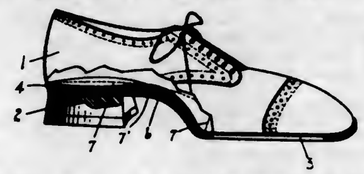
1,427,546. CAMERA. WILLIAM A. PETERS, Chicago, Ill., assignor, by mesne assignments, to International Patent Licensing Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 28, 1920. Serial No. 399,578. 45 Claims. (Cl. 95—32.)



1. In a camera, the combination with a pair of film spools, of a holder for said spools, manually operable means for simultaneously moving both spools with respect to the holder, and stop means engaging the respective spools to latch the same in spaced relation when moved in one direction by said manually operable means; said stop means including a multi-edged member carried by said holder and equipped with a plurality of stops disposed upon the edges thereof, and auxiliary stop elements associated with the said spools, the said member being rotatable to bring each of its respective edges into operative alinement with the said auxiliary stop elements.

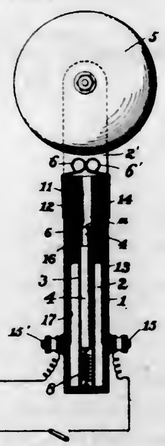
1,427,547. INNERSOLE FOR BOOTS AND SHOES. JOSEPH PIETZUCH, Cincinnati, Ohio. Filed Dec. 30, 1921. Serial No. 525,973. 2 Claims. (Cl. 36—71.)

1. In a shoe, a one-piece sole of substantially the same length as the shoe permanently fixed to and forming part of said shoe, said sole being split in a plane substantially parallel to the upper and lower faces of said sole to form a pocket, said split extending from one side edge portion of the sole to a position adjacent to but



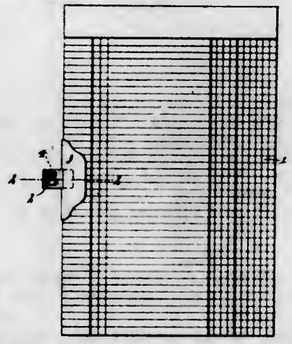
spaced from the opposite side edge of the sole in order to form a freely movable flap to permit access to said pocket, and a pad removably arranged in said pocket.

1,427,548. ELECTRIC BELL. EDUARDO RABONI, New York, N. Y. Filed July 21, 1919. Serial No. 312,309. 1 Claim. (Cl. 177—7.)



In combination, a bell, an electro-magnetic coil, a circuit therefor, a sliding insulated core within the coil, an interrupter consisting of two members in the path of the core normally in contact with each other and closing the circuit through the coil, but breaking the circuit when the insulated core is projected between them on its way to the bell, and means for returning the core to normal position after striking the bell.

1,427,549. INDEX TAB. JAMES H. RAND, North Tonawanda, N. Y. Filed Sept. 19, 1918. Serial No. 254,721. 2 Claims. (Cl. 40—23.)



1. An index tab, comprising a one-piece clip consisting of a doubled piece of flexible material containing a single

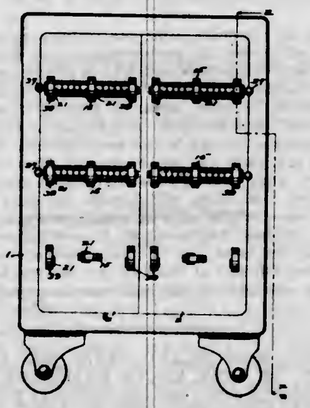
thickness and provided in its fold with an opening, and a doubled strip of transparent material passing through said opening and having its side portions secured to the inner sides of the clip flaps, said strip projecting beyond the fold of the clip and its side walls being separated, whereby said side walls and the adjacent edge of the object to which the tab is attached form a transparent open-ended pocket for an index-slip.

1,427,550. JAWED TOOL. JOHN HENRY RIDINOS, Coal City, Ill. Filed Apr. 9, 1921. Serial No. 459,906. 3 Claims. (Cl. 294—45.)



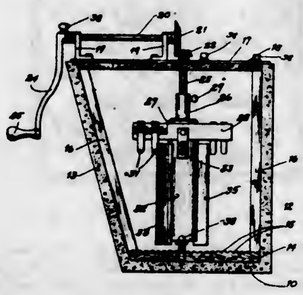
1. A jawed tool, comprising pivotally connected handled jaws, one of said jaws being spaced from the other and provided with a reduced bearing extending thereto, said reduced bearing being provided with a transverse recess at its end and a transverse opening, and a rocking jaw having an opening receiving said reduced portion and provided with a transverse fulcrum portion seated in said groove, and an attaching pin extending through said rocking jaw and said opening of said reduced bearing portion.

1,427,551. COMBINATION LOCK. WILLIAM J. H. RUSCHMEYER, Toledo, Ohio. Filed Dec. 22, 1921. Serial No. 524,128. 8 Claims. (Cl. 70—53.)



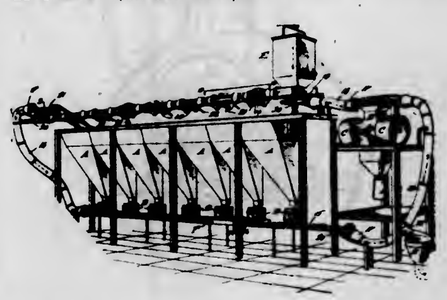
1. In a combination lock, a locking means, a plurality of adjustable elements for controlling the locking means, a removable tubular member for containing an explosive, and locked in position by the adjusted elements and unlocked from the elements when the elements are positioned in a predetermined arrangement relative to each other.

1,427,552. WASHING MACHINE. JOSEPH H. SAUTER, New York, N. Y. Filed Oct. 17, 1921. Serial No. 508,294. 3 Claims. (Cl. 259—134.)



1. A washing machine comprising the combination with a tub having a corrugated bottom, of a frame removably engaged in said tub, a cylindrical element rotatable on a vertical axis in the tub, flexible vanes extending lengthwise of said element in opposed lateral relation, a bar extending transversely across the top of said element, a spindle engaging said bar axially of said element, said spindle being rotatably guided in one of the frame members, a pintle on the lower end of said cylindrical element, said pintle resting in the bottom of the tub, and means for manually rotating said spindle.

1,427,553. CONVEYER. ALBERT G. SCHWINGER, Niagara Falls, N. Y. Filed Nov. 1, 1921. Serial No. 512,110. 18 Claims. (Cl. 198—184.)

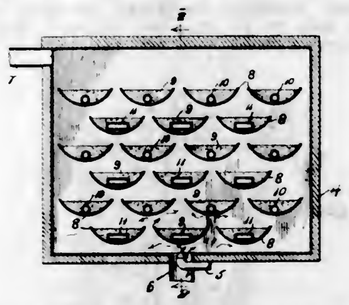


8. In a conveyer, the combination of an endless belt of foraminous material, means for driving said belt, means for shaping said belt at certain points in its flight to substantially tubular shape to enclose material placed therein, means for opening said tubular shaped portions at certain points above said conveyer for discharging material therefrom, and means for opening said tubular shaped portions at other points to receive material to be conveyed.

1,427,554. CATALYZING APPARATUS. JAMES McCONN SELDEN, Pittsburgh, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 22, 1918. Serial No. 223,990. 3 Claims. (Cl. 23—24.)

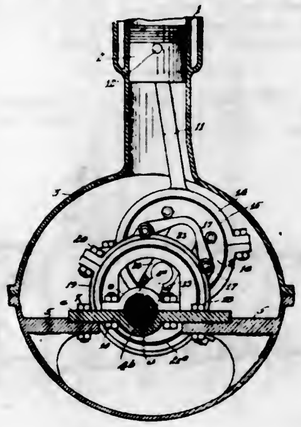
3. In catalysing apparatus, the combination with a casing, of means for introducing vapors to be catalysed

into the lower portion thereof, means for introducing an oxidising agent into the lower portion of the casing, means for permitting the oxydized materials to escape from the upper portion of the casing, rows of catalyst holding troughs located one above the other within the



casing, the troughs of the different rows being disposed in staggered relation, conduits located in the troughs and adapted to be covered by the catalyst placed therein, and means for supplying a temperature modifying medium to the conduits.

1,427,555. EXPLOSIVE ENGINE. HOMER E. SHEPARD, Rochester, N. Y., assignor, by direct and mesne assignments, to Daniel B. Suter, Rochester, N. Y. Filed Mar. 3, 1921. Serial No. 449,522. 7 Claims. (Cl. 121—117.)



1. An explosive engine comprising a cylinder, a piston, a piston rod, a crank shaft, and a rotary member mounted to turn about an axis parallel with but out of alinement with the axis of turning of the cank shaft, said rotary member having the piston rod turning thereon about an axis out of alinement with the axis of turning of said rotary member and said rotary member also having a sliding connection with the crank shaft at a point out of alinement with the axis of turning of said crank shaft.

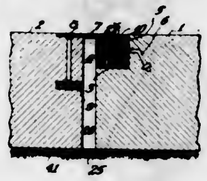
1,427,556. IMPACT TOOL. WILLIAM H. SHORTELL and FRANK L. SUTLIFFE, West Haven, Conn., assignors to Millers Falls Company, Millers Falls, Mass., a Corporation of Massachusetts. Filed Mar. 24, 1921. Serial No. 455,025. 2 Claims. (Cl. 145—46.)

2. An impact tool comprising an elongated body member having an acting end and a cylindrical portion at its opposite end, and a cap member initially formed separate from the body having a solid end forming a head and a socket which receives the cylindrical end of the body, the



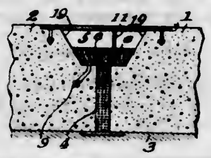
cap and body being positively interlocked and prevented from having relative longitudinal movement by radially deflected portions of the engaging surfaces of said parts.

1,427,557. EXPANSION JOINT. FRANCIS P. SMITH, Rye, N. Y. Filed Sept. 1, 1921. Serial No. 497,762. 9 Claims. (Cl. 94—18.)



1. An expansion joint for concrete structures and the like which comprises, in combination, two members having overlapping faces extending in the plane of movement of said members and which members are shaped to form a recess of constant volumetric capacity between said overlapping faces which said capacity is unvaried by the relative movement of the overlapping faces, and a mass of viscous waterproof material packed in and substantially filling said recess.

1,427,558. EXPANSION JOINT. FRANCIS P. SMITH, Rye, N. Y. Filed Sept. 14, 1921. Serial No. 500,476. 11 Claims (Cl. 94—18.)

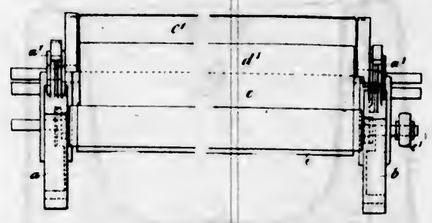


1. In an expansion joint for concrete pavements and similar structures the combination of two adjacent slabs spaced apart a distance sufficient to permit the maximum predetermined expansion of said slabs without producing compression between them, a suitable foundation on which said slabs may slide, and a body of viscous waterproof material located in the space between the adjacent ends of said slabs, the upper adjacent edges of said slabs being cut away to form an enlarged space extending partway down the crevice left between the slabs, which enlarged space is of a capacity such that a quantity of the viscous material which will fill it, and the crevice below it, when the slabs are in their maximum condition of expansion will also at least fill the said crevice when the same is enlarged by the maximum contraction of said slabs.

1,427,559. METHOD AND MEANS FOR ATOMIZING MORE OR LESS VISCID MATERIALS. ASBJORN SONSTHAGEN, Essex, and EDMUND HENRY HARBERD, London, England. Filed Mar. 25, 1920. Serial No. 368,738. 12 Claims. (Cl. 83—91.)

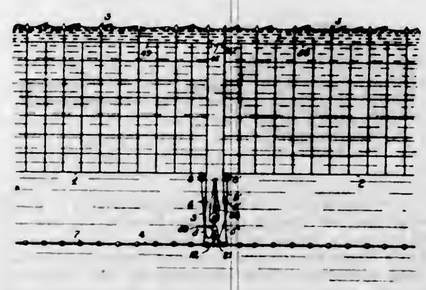
1. Means for atomizing more or less viscid material comprising a plurality of moving surfaces, in the form of

rollers, hoppers supplying the material to said rollers, means for forming films of the material on the surfaces of the rollers, a brush moving at a high speed having bristles contacting with the films but not with the rollers



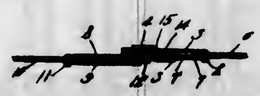
to remove said films, and from which bristles the material is projected by centrifugal force and means engaging said bristles prior to their contact with the material whereby a sharp flicking action is imparted to said bristles as they contact with the material.

1,427,560. MEANS FOR DETECTING SUBMARINE BOATS. ELMER A. SPERRY, Brooklyn, N. Y. Filed June 7, 1917. Serial No. 173,276. 17 Claims. (Cl. 114—240.)



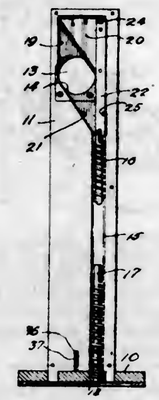
1. An apparatus for indicating the presence of underwater craft including a signalling buoy, adapted to be anchored under water, a weight secured thereto, a snare adapted to be engaged by said craft, and means brought into operation by said snare for releasing said weight from said buoy.

1,427,561. GARMENT FASTENER. WILLOUGHBY J. STARN, Doylestown, Ohio, assignor of one-fourth to Glenn A. Landis, Doylestown, Ohio. Filed Apr. 23, 1921. Serial No. 463,790. 2 Claims. (Cl. 24—201.)



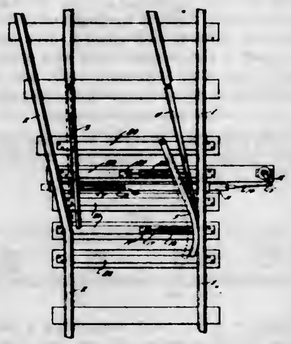
1. A separable fastener comprising disks having slots, each disk being distorted in one direction to form a bridge at the end of the slot, and being distorted in an opposite direction to form seats at the sides of the slots, the slots being in registration, the bridges being in registration, and the seats being in registration; and a member embodying a neck and a head, the neck being received in the bridge of one disk, and the head being received in the seats of the other disk, the head being insertable by way of the slots.

1,427,562. POULTRY DECAPITATOR. LOUIS SUTHER, Hubbard County, Minn. Filed June 2, 1922. Serial No. 565,363. 3 Claims. (Cl. 17—30.)



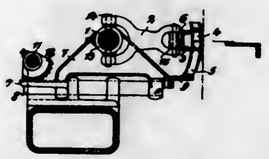
1. A decapitating device including a standard having a head receiving opening, a stationary knife blade mounted at the side of the opening, a guillotine knife mounted in the standard and spring urged downwardly across the opening, a detent for engagement with the knife to hold the same elevated, and a foot operated means for releasing the detent.

1,427,563. RAILWAY SWITCH. HJALMAR TANTTILA, Chicago, Ill., and JOHN SOROLA, Crosby, Minn., assignors of one-third to Peter Holappa, Chicago, Ill. Filed Dec. 5, 1921. Serial No. 520,202. 1 Claim. (Cl. 246—320.)



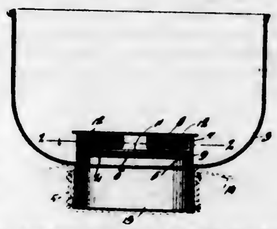
The combination with the rails of the main line, one of which is intersected by a pivotal rail, which forms a continuation of the main line rail, of a rod transversely slidable thereunder, switch rails, the one adjacent said pivotal main line rail being a continuation of said main line rail, the other being pivotally connected to the remaining switch rail, a guide rail lying adjacent to said last mentioned switch rail and having its upper end pivoted in juxtaposition with said pivotal switch rail, a spring buffer normally holding the free end of the pivotal rail of the main line in position to close the main line, a retraction spring connected with and normally holding he remaining switch point and guide rail against the main line so as to close that rail of the main line, abutments on said rod engaging said buffer and said pivotal switch rail, and means for shifting said rod to open said main line.

1,427,564. SHUTTLE EMBROIDERY MACHINE. EMIL VERAS, Chemnitz, Germany, assignor to Maschinenfabrik Kappel Aktiengeeellschaft, Kappel, Chemnitz, Germany, a Company of Germany. Filed Aug. 25, 1921. Serial No. 495,209. 4 Claims. (Cl. 112—95.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



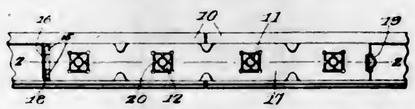
1. In a shuttle embroidery machine, a curved shuttle race inclined to the longitudinal axis of the machine, a shuttle within said race, an oscillatory driving shaft fixed against axial displacement, a longitudinal member carried by said shaft, and adapted to drive the shuttle and means for longitudinally displacing said longitudinal member in relation to the driving shaft.

1,427,565. STRAINER. DAVID D. WALKER, Grand View, Idaho. Filed Aug. 5, 1920. Serial No. 401,485. 3 Claims. (Cl. 210—159.)



1. A milk strainer including a body provided with an opening, a screening element arranged over the opening, a cap detachably holding said element over said opening, said cap having a closed upper end and openings in its side, a spout depending from said body, and a clamping ring for securing a screening element over the spout.

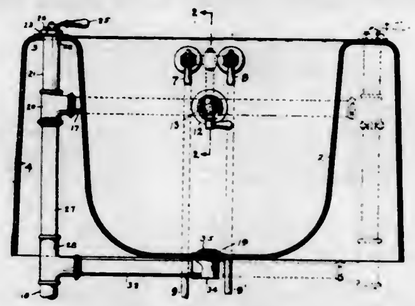
1,427,566. NUT LOCK. WALTER M. WEAR and WILLIAM L. DRAKE, Dewar, Okla. Filed Aug. 30, 1921. Serial No. 496,825. 1 Claim. (Cl. 151—59.)



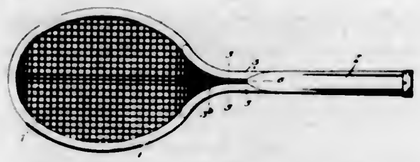
A nut lock for a rail joint comprising a pair of elongated plates hinged together at one end, the other end of one of the plates having a tongue arranged to be bent around into embracing engagement with the adjacent end of the other plate, the first plate having bolt receiving openings, and tongues on its upper and lower edge portions at points between the openings and embracing the upper and lower edge portions of the other plate, the other plate having nut receiving openings and triangular tongues at the sides of the said openings engaging with the side faces of the nuts, said tongues having their outer ends bent into engagement with the outer faces of the nuts.

1,427,567. WASTE AND OVERFLOW ATTACHMENT FOR BATHTUBS. LEON B. YEISER, Cleveland, Ohio. Filed May 29, 1919. Serial No. 300,695. Renewed Mar. 20, 1922. Serial No. 545,343. 7 Claims. (Cl. 4—24.)

1. A bath tub having separate waste and overflow openings and outlet fittings therefor each having separate discharge pipes connected thereto and the overflow fitting being rotatably clamped opposite its opening, a single vertical waste pipe having fittings with which said discharge pipes are connected, and a valve within said vertical pipe adapted to control the outflow of waste water therefrom.

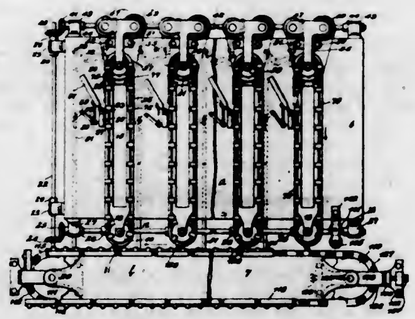


1,427,568. TENNIS RACKET. WILLIAM TYLER ALDRICH, Chicopee, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of Massachusetts. Filed May 10, 1921. Serial No. 468,307. 2 Claims. (Cl. 46—24.)



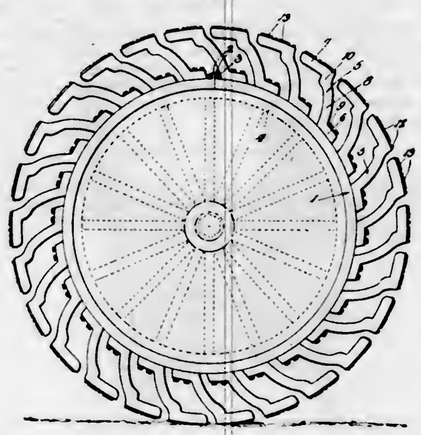
1. In a tennis racket, a bow substantially oval in shape, a wedge inserted between the strips forming the bow and glued thereto, a reinforcing strip located at the base of the oval as a binder for the bent form and outside laminations of wood extending to the inner edge of the reinforcing strip and sealing the jointure of said strip to the throat piece.

1,427,569. PRINTING MACHINE. ANDREW ALEXANDER, New York, N. Y. Filed Feb. 23, 1921. Serial No. 447,093. 15 Claims. (Cl. 101—259.)



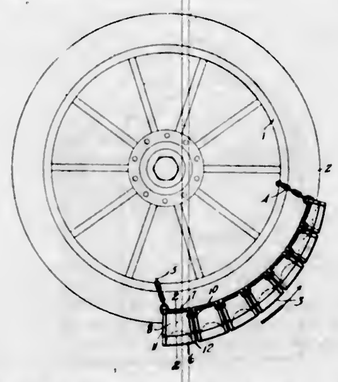
1. In a printing machine a plurality of sets of parts, each comprising a perpendicular rotatable device, adapted for supporting a spool and winding a sheet of paper thereon, a support for the paper to be wound, arranged in spaced relation to the winding device and substantially parallel thereto, and a platen for supporting the section of the sheet of paper between the spool and the support as the paper moves from the support to the spool, and a single type carrier cooperating with all of the platens to print the sheets supported by them.

1,427,570. RESILIENT VEHICLE WHEEL. ADELBERT AUSTIN, Greenwood, N. Y. Filed Mar. 31, 1921. Serial No. 457,390. 1 Claim. (Cl. 152—8.)



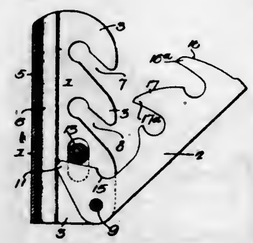
In a device of the class described, the combination of a rim, and a plurality of resilient tread members arranged in a circumferential series about the rim and each comprising an attaching base secured to the rim, a shoe member, and a resilient shank connecting the base and the shoe member, the shank being curved uniformly to within a short distance of the shoe and then curved reversely providing a recessed portion adjacent the end of an adjacent shoe.

1,427,571. MUD SHOE. GEORGE O. BAIRD, Shreveport, La. Filed Dec. 28, 1921. Serial No. 525,453. 2 Claims. (Cl. 152—14.)



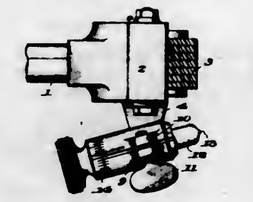
1. A mud shoe of the character described, comprising a plurality of articulated sections, means associated with the outer sections for securing the sections to an automobile tire, each of said sections comprising a metallic box open on one side and at both ends, said box having a central bracing web bracing the bottom and the sides of the box, and a one piece filler provided with a slot at the bottom thereof for accommodating said bracing web, said filler fitting in said box.

1,427,572. CHAIN FASTENER. PERCY J. BAKER, Malvern, Pa. Filed May 19, 1920. Serial No. 382,468. 6 Claims. (Cl. 24—242.)



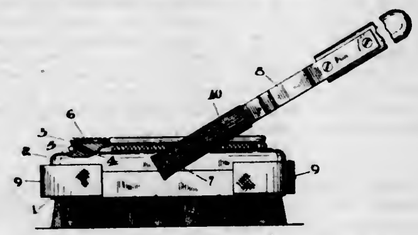
1. In a fastener, the combination with a body member comprising two substantially parallel side portions having oppositely disposed recesses therein, of a retaining member pivotally secured to said body and adapted to be inserted between the said side portions from the recessed side thereof to close said recesses, an arm upon said retaining member projecting beyond the edges of said side portions opposite the recessed edges thereof when said retaining member is in the recess-closing position, and resilient means at the outer end of said arm for engaging the edges of the side portions to prevent accidental withdrawal of said retaining member.

1,427,573. WHEEL DRESSER. CONRAD BIRGBAUER, Detroit, Mich. Filed May 16, 1919. Serial No. 297,464. 2 Claims. (Cl. 125—37.)



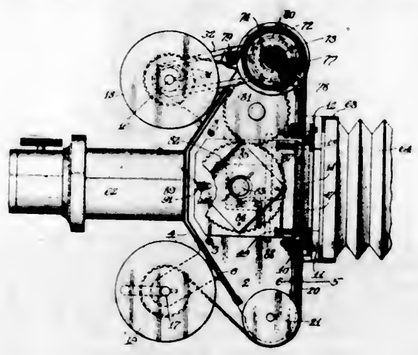
1. In a wheel dressing tool wherein a rotary dresser and a diamond mounting are supported so that either may be used;—a holder for the rotary dresser, and means at the side of said holder for supporting the diamond mounting, said means permitting of the diamond mounting being swung in an arc and moved to and from a wheel.

1,427,574. WAXER AND POLISHER. HARRY L. BRAUN, Toronto, Ontario, Canada. Filed June 7, 1921. Serial No. 475,841. 4 Claims. (Cl. 15—114.)



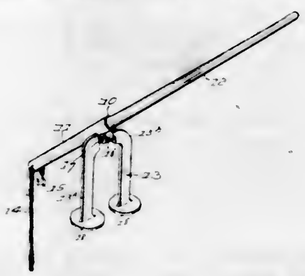
1. In a waxer and polisher, the combination of a metal weight adapted at one side to carry a floor finishing tool; the other side of said weight having a plane surface formed thereon; a layer of cork applied to said plane surface; and a bail-shaped handle on which the metal weight is rotatably mounted to permit either side of the weight being turned lowermost.

1,427,575. PICTURE-PROJECTING MACHINE. JOSEPH W. BRENKERT and KARL S. BRENKERT, Detroit, Mich. Filed Nov. 21, 1919. Serial No. 339,551. 2 Claims. (Cl. 88—18.)



1. In a film picture projecting machine, a casing, a cog feed mechanism at one end of said casing for shifting the film, comprising a rotary spindle, a film engaging roll thereon, a spring pressed cam-engaged pin in said roll for intermittently engaging the film, means for rotating said spindle and causing the pin to engage and feed the film, a shutter in said casing, and means in said casing extending under said film engaging roll adapted to move said shutter in timed relation to the movement of the film.

1,427,576. POST AND BRUSH PULLER. STEPHEN O. BRYANT, Bethany, Mo. Filed Aug. 18, 1921. Serial No. 493,285. 2 Claims. (Cl. 254—132.)



1. A pulling or lifting apparatus having a support, a lever fulcrumed upon the support and a grapple carried by one end of the lever, said support having a transverse bearing pin and the lever consisting of a socket member and a handle member for detachably engaging the socket member, said socket member being provided at the end opposite to the grapple with a depending bearing sleeve engaged with the fulcrum pin.

1,427,577. BIFOCAL LENS. LUCIAN W. BUGBEE, Indianapolis, Ind. Filed May 28, 1921. Serial No. 473,346. 6 Claims. (Cl. 88—54.)



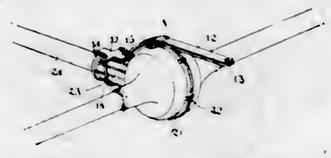
1. A bifocal lens formed of two pieces of glass, and a glass cement securing said pieces of glass to each other which has a lower melting point than said pieces of glass.

1,427,578. PRODUCTION OF COLOR PICTURES. CHARLES W. R. CAMPBELL, Germiston, and FRANK G. A. ROBERTS, Parktown, Johannesburg, Transvaal, South Africa. Filed Nov. 20, 1915. Serial No. 64,328. 1 Claim. (Cl. 88—16.4.)



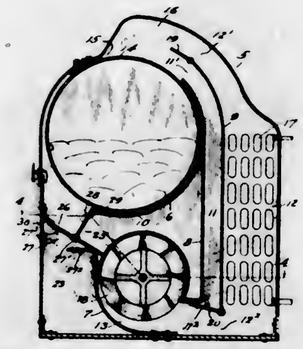
The combination of means for continuously moving a film, groups of lenses movable with the film, the lenses of each group being disposed transversely of the length of the film, a fixed lens cooperating with the movable lenses to compensate for the movement thereof, and color filters for the movable lenses.

1,427,579. TRAILER HITCH FOR AUTOMOBILES. IRA BENJAMIN CESSNA, Hoisington, Kans. Filed Dec. 15, 1921. Serial No. 522,534. 3 Claims. (Cl. 280—33.44.)



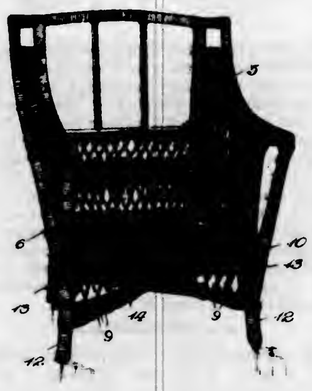
1. A trailer hitch for automobiles having a differential housing and a roller bearing housing extending forwardly from the differential housing and forming an annular shoulder at its forward end, said hitch consisting of a bar apertured at its rear end and having a downturned forward end engaging the said shoulder, and a clip connected to the bar and embracing the roller bearing housing, said bar having portions intermediate its ends engaged by the fastening means of the differential housing.

1,427,580. CLOTHES-DRYING MACHINE. CHARLES W. COLLINS, Seattle, Wash. Filed Feb. 14, 1922. Serial No. 536,528. 7 Claims. (Cl. 34—5.)



2. In a clothes drying machine, comprising a casing having a drying chamber, a power driven fan, a chamber provided for said fan within the casing, two air delivery passages extending from the fan chamber to the drying chamber, an air heating coil provided in one of said passages, said drying chamber having an exhaust passage and a passage for the return of air to the fan chamber, and regulating means for said passages whereby said fan serves to drive air through the drying chamber and selectively through the medium of the air delivery passage containing said coil and through the return passage, or through the air delivery passage which is unprovided with a coil and said exhaust passage.

1,427,581. REED FURNITURE. JOHN J. CROFT, Atlanta, Ga., assignor to Capital City Chair Company, Atlanta, Ga., a Corporation of Georgia. Filed Apr. 10, 1922. Serial No. 551,226. 2 Claims. (Cl. 155—191.)



1. In reed furniture, a frame comprising front and rear upright members forming leg, side, arm, and back members, separate sections of reed extending between said back members, and separate sections of reed extending between said back members and said side and arm members, a bottom secured between said members adapted to receive a cushion, and a section of reed extending across the front of the frame and above the plane of the bottom whereby to form a guard for the front edge of the cushion and to hold the same in place.

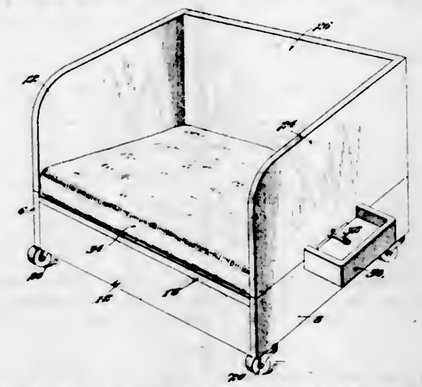
1,427,582. GUN-CLEANING DEVICE. JAMES HENRY CUMPSTON, Dallas, Tex. Filed Dec. 14, 1921. Serial No. 522,274. 5 Claims. (Cl. 42—91.)



1. A gun cleaning device, including a rod threaded and longitudinally split adjacent its tip, whereby to facilitate the anchoring of a cloth patch, means facilitating the winding of a patch around said rod, and said means including a split sleeve of greater internal diameter than the external dameter of the rod.

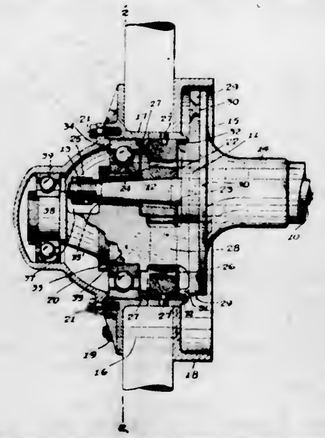
1,427,583. FLOOR CART. GEORGE R. DAVIS, Marlboro, Mass. Filed Sept. 16, 1921. Serial No. 501,169. 2 Claims. (Cl. 155—167.)

1. A floor-cart comprising a rectangular base frame, a kneeling-floor supported thereby forming a hollow bottom to said frame, folding splash-boards on three sides of said frame, a cushion receivable on said floor when the splash-boards are raised and within the hollow bottom when the splash-boards are folded down, a soap holder hinged on said frame for folding thereagainst when the



cart is to be transported, and means for retaining the soap-holder in position to hold soap when the cart is in use.

1,427,584. VEHICLE WHEEL DRIVE. JULIAN F. DENISON, New Haven, Conn. Filed Apr. 18, 1918. Serial No. 229,268. 11 Claims. (Cl. 74—7.)



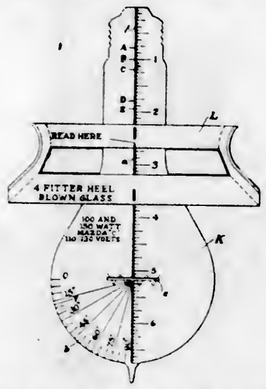
1. In a device of the class described, the combination with a driving axle having one end tapered and adapted normally to receive a wheel so as to drive the wheel directly from the axle, a pinion fixed to the axle in spaced relation to its free end, a wheel provided with a hub having an internal gear meshing with the pinion to be driven thereby, an axle housing spaced from the free end of the axle and disposed to one side of the wheel, of a bearing member constituting an extension from said housing projecting through the internal gear and disposed parallel to but in spaced relation to the free end of the axle whereby the axle is free to vibrate without interference from the bearing member and a bearing between the extension and the wheel.

1,427,585. [WITHDRAWN.]

1,427,586. GAUGE FOR ELECTRIC LAMPS AND ACCESSORIES. HENRY D'OLIER, Jr., Bridgeport, Conn. Filed May 24, 1920. Serial No. 383,868. 32 Claims. (Cl. 33—180.)

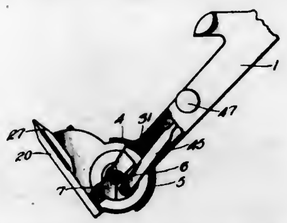
1. A lamp templet gauge comprising a thin plate approximately conforming in contour to the longitudinal sec-

tional contour of a specified incandescent electric lamp and having marked thereon a centrally disposed longitudinal



scale extending downward from the top of the lamp contour, said scale having means thereon to indicate the position of a light center.

1,427,587. HAIR CLIPPER. FORREST FUGITT, Chillicothe, Mo., assignor of one-half to Bernard G. Brown, Chillicothe, Mo. Filed May 27, 1921. Serial No. 472,979. 4 Claims. (Cl. 30—1.)



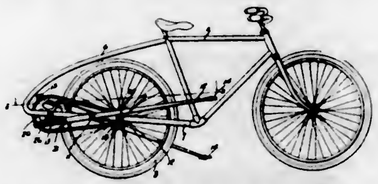
1. A hair clipper comprising a handle and a head, means for articulating the head to the handle whereby the head may swing on an arc with respect to the handle, means for determining the extent of movement of said head with respect to said handle, said means comprising manually actuated push rods, and connections between the push rods and the head.

1,427,588. COMBINATION FURNITURE. NELSON J. GREENISON, New York, N. Y. Filed Aug. 31, 1921. Serial No. 497,081. 3 Claims. (Cl. 228—2.)



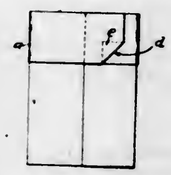
2. As an article of combination furniture, a ladder, and a shoe-shining box, said box being carried by the ladder in such a manner as to provide one of the steps thereof in one position.

1,427,589. BICYCLE PROPELLING MEANS. NELSON J. GREENISON, New York, N. Y. Filed Oct. 4, 1921. Serial No. 505,360. 1 Claim. (Cl. 208—19.)



In a bicycle, a frame having a rearwardly-extending portion projecting beyond the rear wheel thereof, a sprocket mounted in such rearwardly-extending portion, cranks carried by the sprocket, a plurality of levers pivotally connected to the frame in such a manner that the forward end of each of said levers is longer than the rear end thereof, said levers being immovably carried with respect to the frame, a slot provided in the rear end of each of said levers and adapted to receive its respective crank of the sprocket, a sprocket carried by the rear wheel of the bicycle, and a chain passing around said sprockets whereby upon operation of the levers about their pivotal point the first-mentioned sprocket will be rotated and through the medium of said chain will drive the second-mentioned sprocket and the rear wheel of the bicycle.

1,427,590. COMBINED LETTER SHEET AND ENVELOPE. WILLIAM G. GAUBER, Milwaukee, Wis. Filed Sept. 27, 1919. Serial No. 326,961. 1 Claim. (Cl. 229—92.5.)



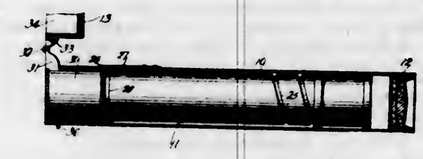
A letter sheet for purposes of communication, in which the message appears upon one side of the sheet and the superscription upon the reverse side of the top margin thereof, the right margin of the sheet being folded on the sheet and the lower part of the sheet over the message so as to conceal the latter, the lower edge of such lower part resting on the sheet at a line somewhat removed from the top edge thereof, the top margin being folded over the said line so as to expose the superscription, the side margins folded into overlapping position, with the said top margin forming a band around one end of the completely folded sheet, one end of the said band being inserted in the pocket formed by the said band in the other end thereof, and the closure being completed by an inverted seal constituted by a double folded corner of the overlapping top marginal portion.

1,427,591. BELT BUCKLE. THEODORE BERNARD HAFERTEP, Chicago, Ill. Filed Feb. 11, 1921. Serial No. 444,141. 2 Claims. (Cl. 24—73.)



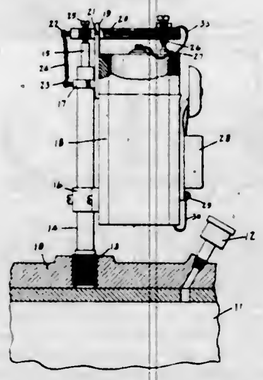
1. A belt buckle having side members, and a spring clamping member extending from the forward end of one of said side members, said clamping member extending at right angles to said side member, and then being bent parallel with said side member.

1,427,592. TELESCOPE. HENRY W. HALES, Ridgewood, N. J. Continuation of application Serial No. 225,200, filed Mar. 28, 1918. This application filed Sept. 20, 1920. Serial No. 411,583. 1 Claim. (Cl. 88—32.)



A telescope including an objective and eye piece section, a recessed cap provided with a dark lining secured to said eye piece section and normally closing the same to guard against the entry of foreign substances, said recessed cap being adapted when the telescope is in use to be moved to a position at which the same will lie substantially parallel to the end of said eye piece section whereby to act as a blinder for the non-observing eye of the user.

1,427,593. BEARING ALARM. HOWARD L. HENDERSON, Terre Haute, Ind. Filed Oct. 18, 1921. Serial No. 508,539. 1 Claim. (Cl. 177—311.)



The combination with a bearing having a rotatable shaft therein, of means for indicating the over-heating thereof comprising a self contained unit and including a tubular supporting member mounted in said bearing, an expansion bar mounted in said member and extending outwardly therethrough, a battery box mounted upon said supporting member having an electric battery therein, a circuit including said battery, an electric bell mounted on said box, and a circuit closer comprising a lever pivoted intermediate its ends on mounting means supported by said member and having a contact post on the end thereof, yielding means on the opposite site end for normally maintaining said contact post in circuit breaking position, and adjustable means on said lever in position to be engaged by said bar for tilting said lever about its pivot point and causing said post to make contact and complete said circuit whereby the alarm will be sounded upon the expansion of said bar.

1,427,594. TIMER. JOHN A. HOLM, Albany, N. Y., assignor to Blublaze Motor Specialties Corp., Long Island City, N. Y., a Corporation of New York. Filed Dec. 10, 1918. Serial No. 266,142. 1 Claim. (Cl. 200—19.)

An ignition timer comprising a housing, an insulating annulus fitted therein, a plurality of spaced fixed contacts mounted in said annulus, a shaft extending into said housing, a collar fixed on the end of said shaft and having a flange at one end formed with a series of

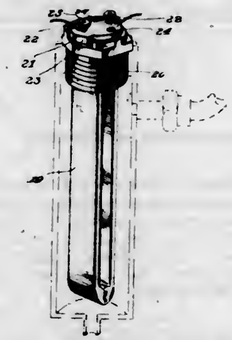


radial notches, an arm carrying a movable contact and provided with a sleeve fitting over said collar and having a finger to engage said notches in the collar.

1,427,595. PROCESS OF PRODUCING BUTYL ALCOHOL AND ACETONE BY FERMENTATION. GEORGE D. HORTON, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 6, 1919. Serial No. 322,186. 21 Claims. (Cl. 260—135.)

21. The process of producing acetone and butyl alcohol which comprises fermenting a sterilized grain mash with the hereinbefore described *Bacillus aceto-butylicum* without positively excluding sterilized air from said mash.

1,427,596. ELECTRIC WATER HEATER. ANSEL C. HULBERT, San Francisco, Calif. Filed June 11, 1921. Serial No. 476,783. 8 Claims. (Cl. 219—41.)

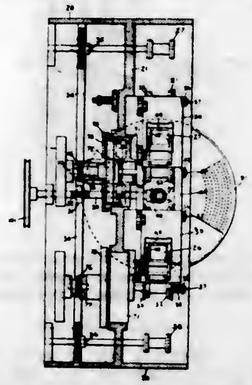


1. An electrical heating element comprising a connecting supporting plug, having terminal connectors, a U-shaped metal tube having its ends soldered or brazed to said plug, and a helically coiled resistance wire extending through said tube, and having its ends joined to said terminal connectors.

1,427,597. FILM-FEEDING MEANS FOR MOTION-PICTURE MACHINES. JOHN ROY HUNT, Indianapolis, Ind., assignor to International Moving Picture & Film Company, Nashville, Tenn., a Corporation. Filed June 16, 1919. Serial No. 304,686. 3 Claims. (Cl. 74—41.)

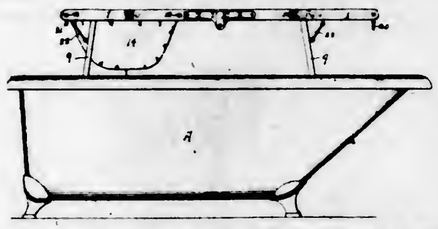
3. A film feeding means for a machine for projecting colored motion pictures, including a film feeding sprocket, a constantly rotating cam having an internal periphery with an outwardly projecting V-shaped portion, a block within the internal periphery with an outward V-shaped projection opposite the internal periphery at its V-shaped portion so as to leave a V-shaped passageway, a shaft

on which the sprocket wheel is secured, a cross bar secured on said shaft with a pin at each end thereof, the two pins adapted to engage the internal periphery



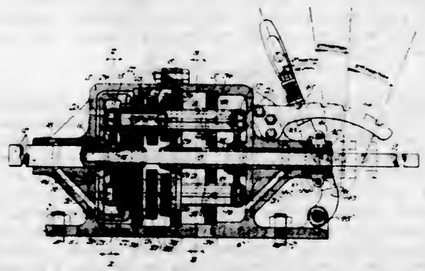
of the cam, so that when they pass through the V-shaped passageway during the rotary movement of the cam the feeding sprocket shaft will be given a continuous half revolution.

1,427,598. COLLAPSIBLE BATH AND DRESSING TABLE. WILLIAM J. JACKSON, Detroit, Mich. Filed Feb. 28, 1921. Serial No. 448,556. 3 Claims. (Cl. 45—116.)



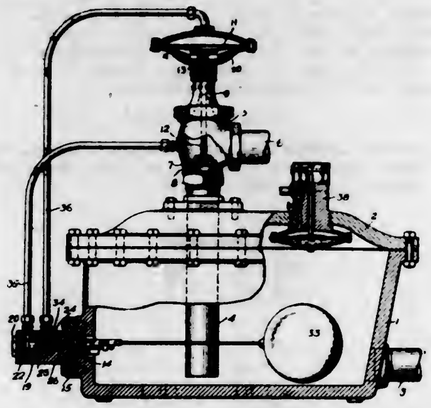
1. In a collapsible bath tub and dressing table, a pair of frame members each consisting of two parts hinged together, cross rods connecting the frame members, a bath tub of fabric mounted on two cross rods on one side of the hinges, and a table extending from one end of the frame to beyond the hinges and having its ends attached to parallel cross rods.

1,427,599. REDUCING GEARING. EMIL G. JOHANSON, Rockford, Ill. Filed Apr. 17, 1922. Serial No. 553,699. 8 Claims. (Cl. 74—84.)



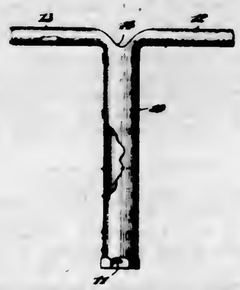
1. In speed reducing mechanism, the combination of a stationary case, a high speed shaft extending into one side of the case, a low speed or driven shaft extending into the other side of the case, a pinion fixed to the high speed shaft, an internal gear-wheel secured to the low speed shaft, a rotatable carrier in the case, planetary longitudinally adjustable pinions on the carrier driven by the pinion on the high speed shaft, stationary internal gears for meshing with the adjustable planetary gears respectively, a driving connection between the planetary gears and the internal gear on the low speed shaft, and means for adjusting the planetary gears longitudinally to bring them into engagement with the stationary internal gears respectively.

1,427,600. TRAP. HENRY WILLIAM JUSTUS, Napanoch, N. Y. Filed Mar. 17, 1921. Serial No. 453,163. 5 Claims. (Cl. 137—103.)



5. In a trap of the character described, the combination with an outlet valve, a diaphragm casing, and a diaphragm in said casing controlling the movement of the valve, of means connecting the trap and the diaphragm whereby pressure within the track causes the movement of the diaphragm, a valve controlling communication with the diaphragm casing, a float operating said last-mentioned valve, and said last-mentioned valve having a spiral passage connecting the diaphragm casing and the outlet of the trap when said valve is in position to close direct communication between the trap and the diaphragm casing.

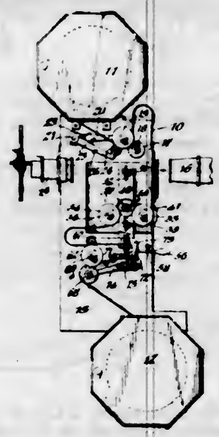
1,427,601. WRENCH. WALTER R. KAHNS, Brooklyn, N. Y., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 9, 1921. Serial No. 521,079. 2 Claims. (Cl. 81—121.)



2. A wrench comprising a hollow cylindrical body open at both ends providing an unobstructed passage way

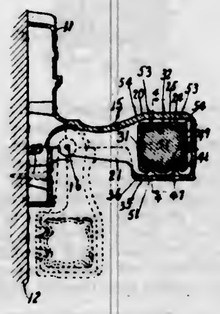
therethrough, with integral right angle extensions at one end, its other end being provided with a head interiorly shaped to engage a nut.

1,427,602. FILM-ACTUATING MECHANISM FOR PICTURE MACHINES. FRANK H. KAISER, Buffalo, N. Y. Filed Dec. 4, 1919. Serial No. 342,418. 15 Claims. (Cl. 88—18.)



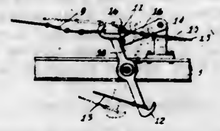
1. A mechanism for feeding a picture film comprising two main toothless feed rollers the opposing sides of which are spaced apart, an intermediate toothless gripping roller which has its axis offset from a line connecting the axes of said main rollers and has its opposite sides facing the opposing sides of the main rollers, means for yieldingly pressing said intermediate roller between said main feed rollers, said film being gripped between the opposite peripheral portions of said intermediate roller and the opposing sides of said main rollers, the gap between the main feed rollers being less than the diameter of said intermediate rollers.

1,427,603. CASKET HANDLE. FRANK J. KALLMEYER, Cincinnati, Ohio, assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 7, 1919. Serial No. 288,105. 3 Claims. (Cl. 16—112.)



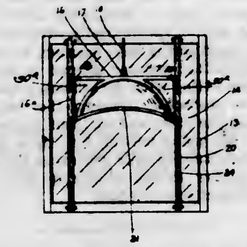
1. In a casket handle, the combination of a pivoted arm, said arm having an opening, and a bar received in said opening, a portion of the wall of said opening indented inwardly into said bar by pressure to form a protuberance at the inner face of said portion, and an indentation at the outer face of said bar with the wall of said indentation surrounding said protuberance.

1,427,604. HARNESS RETRACTOR. ADOLPHUS H. LANDRY, Lowell, Mass. Filed Nov. 18, 1920. Serial No. 424,888. 1 Claim. (Cl. 139—88.)



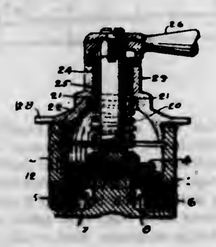
A harness retractor of the character described, including a plurality of harnesses, a frame supporting said harnesses, a plurality of levers pivoted to said frame above said harnesses, connecting means extended between said levers and said harnesses, means retracting the motion of said harnesses against the pull of said levers, a shaft journaled to said frame extending parallel to the axis of the levers, a crank arm rigidly secured to each end of said shaft, a rod extending parallel to said shaft and secured to said crank arms, and a hand operated wheel rigidly secured to the end of the shaft for operating the same and move said rod against said levers to force the same into an aligned position with respect to each other and thereby evening the harnesses with respect to each other.

1,427,605. VISION SHIELD FOR VEHICLES. LEROY LAWSON, Tipton, Ind. Filed May 5, 1921. Serial No. 467,181. 2 Claims. (Cl. 20—40.5.)



1. The combination of a window, a shield therefor, including two parallel sides, a pair of guides secured to said window in spaced and parallel relation and at opposite sides of the shield, guiding means on each of the parallel sides of said shield and seated in and slidable in said guides, means for sliding the shield in said guides in one direction, and other means for sliding said shield in the opposite direction.

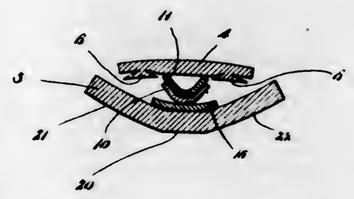
1,427,606. MIXING VALVE. PATRICK T. LEAHY, Cleveland, Ohio. Filed Sept. 29, 1919. Serial No. 327,187. Renewed Mar. 6, 1922. Serial No. 541,587. 2 Claims. (Cl. 251—88.)



1. A mixing valve comprising an open body having a side outlet and a flat inner bottom surface provided with

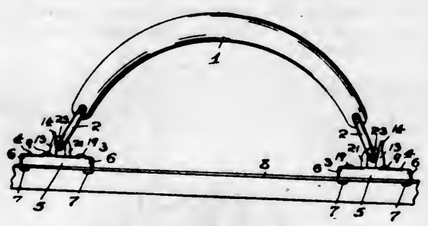
a pair of separate intake ports, a valve disk having openings adapted to register with said ports and provided with a lug at one side on its top, a valve stem in separable engagement with said disk having a notched flange adapted to receive and engage said lug, a cap detachably engaged with said body adapted to support said stem, a compression spring sleeved upon said stem between said cap and the flange on the stem, and an operating handle for said stem.

1,427,607. SHOE. THOMAS C. LLOYD, Portsmouth, Ohio, assignor to Irving Drew Company, Portsmouth, Ohio, a Corporation of Ohio. Filed Aug. 17, 1921. Serial No. 492,996. 1 Claim. (Cl. 12—142.)



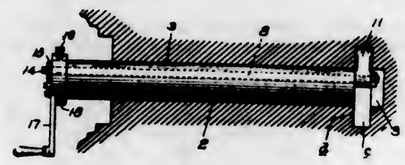
A boot or shoe having a plurality of separate shank stiffening members, one secured to the insole and the other to the outsole, the stiffening member secured to the insole being comprised of a spring base member secured at each end to the insole, and an underlying stiffening plate U-shaped in cross section substantially throughout its length and secured to said spring base member, a rigid stiffening plate of predetermined contour secured to the face of the outsole and cooperating with the stiffening member secured to the insole to produce a structure that imparts rigidity to the shank of the shoe, and of itself assists in forming the outsole at the shank portion into three planes, one of said planes being substantially central of the other planes, which other planes extend angularly from the central plane to the respective sole edges.

1,427,608. BAG HANDLE AND HANDLE FASTENER THEREFOR. WILLIAM A. LOTZ, Newark, N. J., assignor to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed May 18, 1921. Serial No. 470,512. 8 Claims. (Cl. 190—58.)



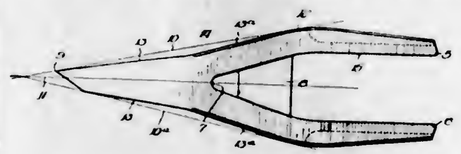
1. In combination with a bag-frame-handle provided at its ends with handle-loops, handle-fasteners adapted to be secured upon a bag-frame, each handle fastener comprising a chambered box, a loop-receiving carrier-member non-separably secured within each box and having a carrier-post extending above said box, said posts being formed with curved receiving members with which the ends of the handle are detachably connected, the latches connected with said fasteners adapted to be brought into engagement with said receiving-members.

1,427,609. MINING TOOL. ALBERT L. MCDONALD, Woodlawn, Pa. Filed Nov. 11, 1920. Serial No. 423,245. 7 Claims. (Cl. 255—76.)



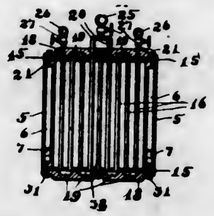
1. A mining tool consisting of a hollow cylindrical rotatable barrel provided with an eccentrically mounted laterally extensible cutter on one end thereof.

1,427,610. DIPPER-TOOTH POINT WITH HOLLOW SURFACES. WALTER S. MCKEE, Chicago, Ill. Filed Oct. 23, 1919. Serial No. 332,658. 5 Claims. (Cl. 37—56.)



1. A dipper tooth point having a narrow front portion and a relatively wide rear portion, the top and bottom surfaces diverging at acute angles to the central plane of the tooth from the front end to an intermediate point, and diverging at greater angles to the central plane from that point to the wider portion of the tooth.

1,427,611. CONDENSER AND COOLER. HARRY EDWIN MACCAMY, Los Angeles, Calif., assignor to Southwestern Condenser Company, Los Angeles, Calif., a Corporation of California. Filed June 3, 1920, Serial No. 386,332. Renewed June 3, 1922. Serial No. 565,744. 4 Claims. (Cl. 257—230.)



1. In a device of the class described, a plurality of units comprising a body having a passage therethrough, tubes disposed crosswise through the passage in the body, cover plates having a number of return pockets to form end communications between adjacent tubes and having a number of inlets and outlets each pair of inlets and outlets embracing a number of return pockets so as to form a tube unit between each pair of inlets and outlets, means whereby the several units may be connected in parallel to common inlet and outlet manifolds, and independent means for controlling the flow of cooling fluid through each unit.

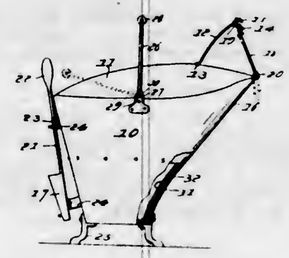
1,427,612. DIFFERENTIAL GEARING FOR AUTOMOBILES. IRA M. MARCY, Chattanooga, Tenn., assignor of one-half to Alex N. Levine, Chattanooga, Tenn. Filed Nov. 12, 1921. Serial No. 514,698. 2 Claims. (Cl. 74—100.)

1. In a differential for automobiles and for all motor driven vehicles using a differential gear, a main driving gear, wheel sections on opposite sides of the main driving gear, disks fixed to the ends of said axle sections in parallel relation to the main driving gear, lugs on the main



driving gear, pins slidable through said discs to move into the path of said lugs, and means to selectively move said pins through the respective disks into and out of the path of said lugs.

1,427,613. COAL HOD. JULIA A. MARTIN, Knoxville, Tenn. Filed June 26, 1920. Serial No. 392,132. 1 Claim. (Cl. 220—2.)



A coal hod having a cover provided at its forward end with a hinged lid having a latch carrying handle for securing the same in its closed position and a supporting rod pivotally connected with the free edge of the lid and terminally forked to engage the upper edge of the hod wall while maintaining the lid in open position.

1,427,614. RELEASABLE SELF-FASTENING BUTTON. MAX MENKIN, New York, N. Y. Filed Mar. 16, 1921. Serial No. 452,662. 3 Claims. (Cl. 24—108.)



1. A separable fastener comprising a body having a back wall provided with a central opening, the edge of which is arranged in the plane of the body of the back wall, a resilient element carried by said body and having a part traversing said opening at one side of its axial center line, and a shank provided with a plurality of annular grooves substantially equal in width to the thickness of said wall, said grooves being adapted to receive the edges of said wall, and said shank being adapted to be projected through said opening to coact with said part of the resilient element and place said element under tension whereby upon the release of the body, said element in returning to its normal condition acts to shift the body to an eccentric position relative to the shank and engage the edge of the opening in said back wall in a groove in the shank to thereby lock the parts of the fastener together.

1,427,615. PROCESS OF PRODUCING EDUCATIONAL PHOTOGRAPHS. CHARLES FREDERIC MERRIAM, Trenton, N. J. Filed Aug. 12, 1920. Serial No. 402,948. 1 Claim. (Cl. 283—1.)



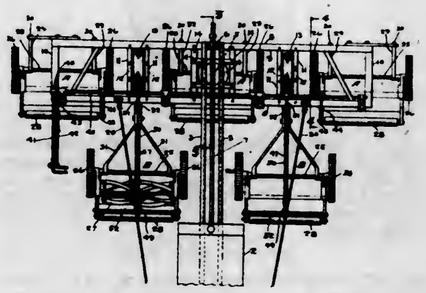
The method of forming a book from photographs for illustrating a plot or event, comprising staging the successive scenes in the plot or event for moving picture purposes, taking a still photograph of each principal scene while the scene is being photographed for a moving picture film, adding headings to each photograph, giving a synopsis of the events staged, and then assembling said still photographs in book form in the proper sequence to present the successive events in their proper sequence.

1,427,616. BUNG-FLANGE BLANK. GEORGE A. MOORE, Detroit, Mich., assignor to Detroit Range Boiler & Steel Barrel Company, Detroit, Mich., a Corporation of Maine. Filed July 13, 1921. Serial No. 484,308. 3 Claims. (Cl. 29—148.2.)



1. Two members adapted to be welded together, one of said members overlapping the other and having a rim or bead along an edge, which bead is adapted to be melted so it will attach itself to the other member.

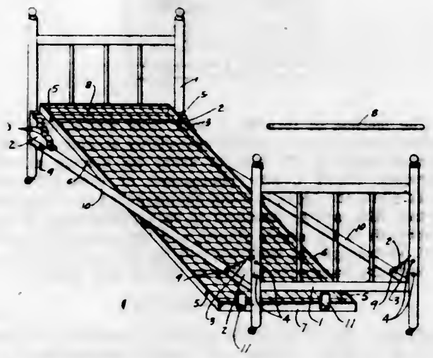
1,427,617. LAWN MOWER. GARDNER E. MOREHOUSE, Moline, Ill., assignor to Toro Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 13, 1921. Serial No. 477,308. 3 Claims. (Cl. 56—7.)



1. In a machine of the class described, the combination, with a main or traction frame, of a forwardly located and laterally extending draft frame, having a fifth wheel connection with said main frame, a pair of supporting wheels for said draft frame, one located at either side of the fifth wheel connection, whereby the weight of the draft frame and the forward part of the main frame is carried by said supporting wheels, and a series of lawn

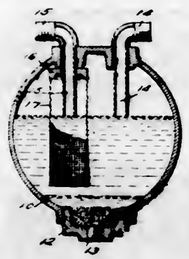
mower units independently connected with said draft frame, and arranged to be drawn thereby but without sustaining any of the weight of said draft frame and main frame.

1,427,618. BED. RICHARD MORRIS, Gwinn, Mich. Filed May 21, 1921. Serial No. 471,409. 1 Claim. (Cl. 5—12.)



An adjustable hospital bed, comprising a bed frame and a spring frame, both having transversely aligned holes at each end; triangular and notched elevator blocks adapted to be secured to the top sides of the side bars of the bed frame at the head or foot; and two corss rods adapted to lockingly pass through the holes in the two frames, or to be withdrawn from engagement with the holes in the side bars of the bed frame and positioned in the notches of the triangular blocks.

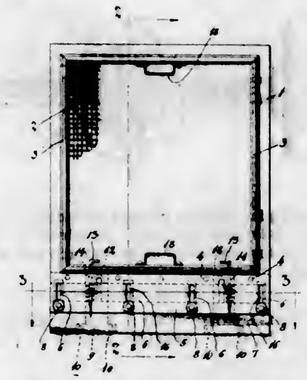
1,427,619. AIR-TRAP GASOLINE STRAINER. ROBERT M. MUELLER, New York, N. Y. Filed Nov. 24, 1919. Serial No. 340,178. 5 Claims. (Cl. 210—165.)



2. In a device of the character described comprising a casing, an inlet and an outlet pipe in communication with said casing having the outlet and inlet ends of said respective pipes terminating in a common plane slightly above the center of the casing, and a drain in the bottom of said casing.

1,427,620. SCREEN FRAME. FRANK MUSHALL, Chicago, Ill. Filed Nov. 12, 1921. Serial No. 514,677. 3 Claims. (Cl. 156—14.)

2. A device of the character described comprising a frame for supporting a screen or the like, a rectangular plate carried at one end of said frame substantially the same length thereof, and arranged to overlap the outer edge of said frame, said plate having a plurality of transverse slots therethrough, a movable bar disposed adjacent one side of said frame, a plurality of screws carried by said bar, and arranged to extend one through each of said slots in said plate, said screws having enlarged heads thereon for preventing said screws for moving out of said slots, a plurality of compression

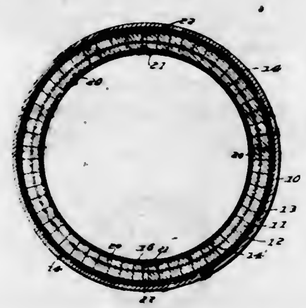


springs disposed intermediate said frame and said bar, and a plurality of flaps each of which is secured at one end to one of said screws for closing the opening left by said slots.

1,427,621. INSULATING COMPOSITION. JERAY NAJARIAN, Hartford, Conn. Filed Feb. 19, 1921. Serial No. 446,459. 1 Claim. (Cl. 106—12.)

A mixture of the class described comprising gum mastique, incense of commerce, asbestos, gum tragacanth, rag ashes and the white of eggs.

1,427,622. TIRE. VINCENT NAVE, Providence, R. I. Filed June 9, 1920. Serial No. 387,569. 1 Claim. (Cl. 152—5.)

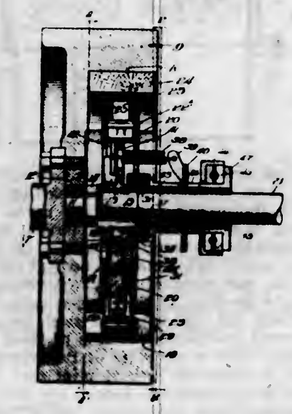


The combination with a tire rim and outer casing, of a filler disposed within the casing, a frictional band engaging the inner surface of the filler and disposed in surrounding relation to the rim, clamping bands disposed against the outer faces of the casing adjacent the rim, and transverse bolts connecting the clamping bands on opposite sides of the outer casing, the said bolts passing through the casing, and through the filler just above the plane of the frictional band.

1,427,623. FRICTION CLUTCH. GUSTAVE C. NELSON, Moline, Ill., assignor to The Berg & Beck Company, Moline, Ill., a Corporation of Illinois. Filed Nov. 14, 1919. Serial No. 337,940. 15 Claims. (Cl. 192—75.)

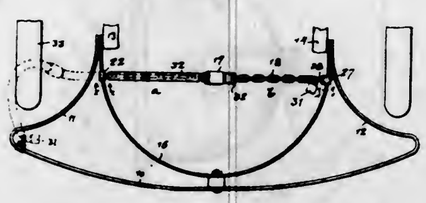
1. The combination of a driving element provided with a clutch chamber, and a driven element, of clutch mech-

anism mounted on the driven element within said chamber and comprising a support rigidly mounted on the driven element, a plurality of shoe heads each pivoted at one end to the support, means for simultaneously adjusting the pivoted ends of all of said heads, friction shoes



in said heads, a toggle collar movable longitudinally of the driven element, and toggle levers pivoted to the collar and connected to the other ends of the shoe heads to move the shoes radially of the driven element into or out of operative engagement with the driving element.

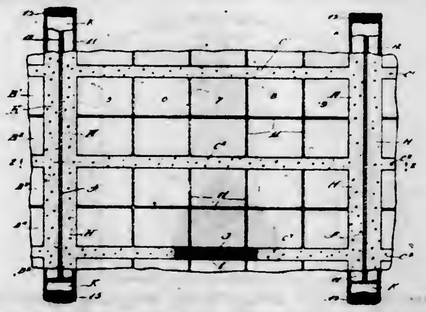
1,427,624. VEHICLE ACCESSORY. RICHARD T. NEWTON, New York, N. Y. Filed Aug. 25, 1919. Serial No. 319,561. 6 Claims. (Cl. 188—31.)



1. The combination with a vehicle bumper susceptible of deflection toward the vehicle body under impact strains, of a chain arranged transversely of the vehicle in the plane of the bumper and between the latter and the vehicle body, and adapted to be engaged by the bumper on deflection of the latter and to form a substantially rigid stop limiting the deflection of the bumper toward the vehicle body.

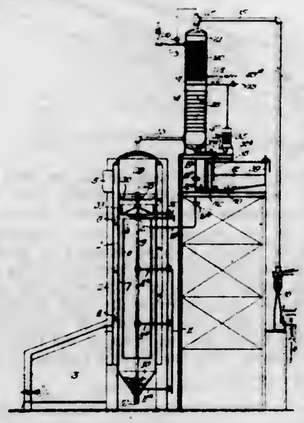
1,427,625. FLOOR CONSTRUCTION. THOMAS G. NICHOLSON, Chicago, Ill. Filed Dec. 6, 1920. Serial No. 428,659. 5 Claims. (Cl. 72—66.)

1. A floor construction wherein is combined spaced I-beams, an arch extending between each two I-beams, each arch consisting of a transversely arranged concrete beam below which is a channel tile, in association with a row of tile blocks, each the same in form as the others, the tile row being arranged transversely between the I-beams in parallel and adjacent relation to the concrete beam, and a skew of concrete disposed between the



end tiles of the row and the proximate I-beam, the ends of the concrete beam uniting with the skew, substantially as described.

1,427,626. PROCESS AND APPARATUS FOR CATALYZING OILS AND REVIVIFYING THE CATALYST. ERNEST V. OWEN, Chicago, Ill., assignor to The Hoover Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1922. Serial No. 548,460. 20 Claims. (Cl. 196—26.)

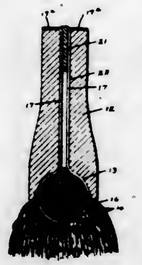


1. The method of treating oil to produce low boiling hydrocarbon which consists in flowing the oil to be treated together with aluminum chloride hydrocarbon catalyst, through a catalyzing chamber, separating the oil from the catalyst and returning it to the catalyzing chamber alongside a wall thereof, and applying heat to the returning body of oil, on a side thereof that is remote from the catalyzing chamber; the oil in the catalyzing chamber being maintained at a temperature favorable to catalyzation, and vapors being removed.

1,427,627. MOP. FREDERICK W. PENDERGAST, Cambridge, Mass. Filed June 14, 1921. Serial No. 477,369. 2 Claims. (Cl. 15—229.)

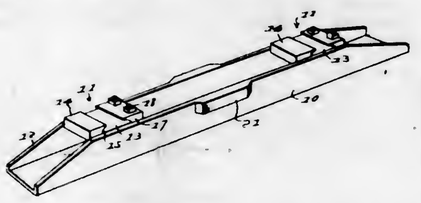
1. A mop comprising a one piece handle having a cavity in its inner end and bored to form a passage extending from the bottom of the cavity to the exterior of the handle at a distance from the socket, a bundle of mop filaments arranged side by side, and a flexible wire binder including a neck portion bent to form a loop, embracing

the cntral portion of said bundle, and end portions extending from the cavity through said passage to the exterior of the handle and bent outside the handle to en-



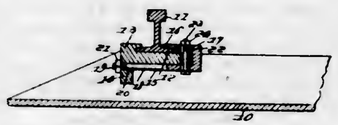
gage the external surface of the latter and anchor the binder to the handle, said end portions being under tension and confining the neck portion and the central portion of the bundle in the cavity.

1,427,628. CROSSTIE. EDWARD H. PHILLIPS, Fort Mill, S. C. Filed Aug. 29, 1921. Serial No. 496,432. 1 Claim. (Cl. 238—62.)



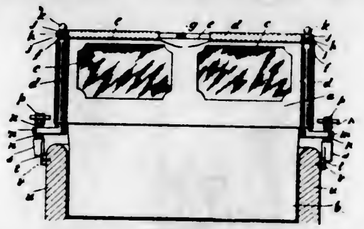
A railway tie of channel iron having its side flanges connected by webs flush with the upper edges of said flanges to form spaced rail seats disposed adjacent opposite ends of the tie, the bottom of the tie between said rail seats being formed with an opening to permit the entrance of ballast and the flanges in the region of said opening being provided with laterally extending reinforcing enlargements both horizontally and vertically of greater thickness than the thickness of the side flanges and disposed adjacent the top edges of the latter and in overlapping relation with the bottom portions of the tie adjacent said opening.

1,427,629. RAIL FASTENER. EDWARD H. PHILLIPS, Fort Mill, S. C. Filed Jan. 7, 1922. Serial No. 527,645. 3 Claims. (Cl. 238—332.)



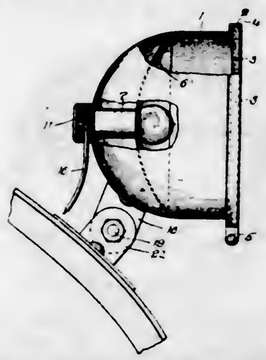
1. A hollow tie having a bridge piece forming a rail seat and provided at one side with a clip for overhanging engagement with one edge of a rail foot, and a clamp arranged in straddling relation with the opposite edge of the bridge piece with its upper jaw extended to form a clip for overhanging engagement with the opposite edge of said rail foot and with its lower jaw extended to form a bolt extending through a depending ear of the bridge piece and engaged by an adjusting nut, a vertical tie bolt being arranged to connect the jaws of the clamp.

1,427,630. WIND SCREEN FOR MOTOR CARS. WILLIAM PITKIN, London, England. Filed Apr. 3, 1922. Serial No. 549,277. 5 Claims. (Cl. 296—85.)



1. A wind screen for vehicle seats, comprising a rectangular sheet of flexible material having an opening fitted with transparent material and having supporting tubes along its horizontal top and vertical sides, a horizontal removable rod extending through the tube at the top of the screen, two detachable vertical rods extending through the side tubes of the screen respectively, and detachably supporting at their upper ends the ends of the horizontal rod, and having at their lower ends supporting cranks, two socket brackets provided with means for securing them to the sides of the vehicle and each containing a removable vertical pivot pin, the vertical pivot pins being arranged to support the vertical rods by passing through pivot holes in the ends of the cranks of the vertical rods, and each end of the horizontal rod being detachably and rigidly connected to the top of one of the vertical rods so that when either pivot pin is removed from its socket bracket the screen will be supported in the horizontal position from the other socket bracket.

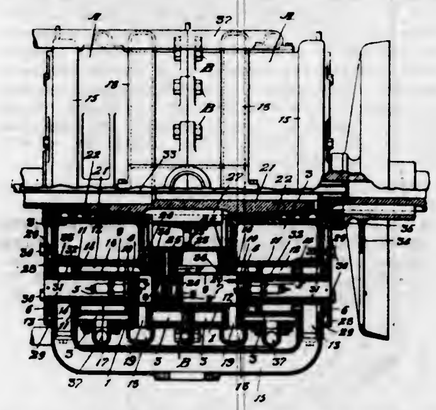
1,427,631. VEHICLE LAMP. EDWARD S. PRESTON, Chicago, Ill., assignor to Edmunds & Jones Corporation, a Corporation of New York. Filed Oct. 15, 1921. Serial No. 507,852. 5 Claims. (Cl. 240—7.)



1. A lamp comprising a casing and a reflector housed thereby, the reflector and the rear of the casing having alined apertures, an anchoring tube extending through the said alined apertures and equipped at each end with a groove, the said groove being respectively entered by the aperture walls of the reflector and the casing, and a lamp-socket having its shell housed by and clamped to the said tube.

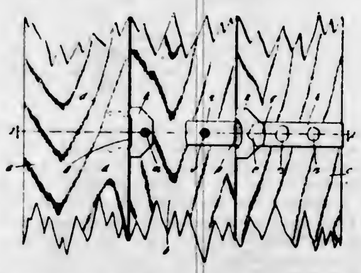
1,427,632. INTERNAL-COMBUSTION ENGINE. CHARLES ROGER PRYOR, Garfield, Md., assignor of one-half to Worth B. Stottlemyer, Waynesboro, Pa. Filed Aug. 8, 1919. Serial No. 316,152. 4 Claims. (Cl. 123—58.)

2. An internal combustion engine, comprising a casing, stationary pistons fixed in the ends of the casing, a reciprocating cylinder movable at its ends on the pistons, said cylinder composed of two members, said members having adjacent screw threaded closed ends constituting pressure surfaces, a ring screwed onto the ends of the cylinder members and coupling them together, a laterally projecting pin supported in said ring, a shaft, a cam on



the shaft and with which the pin engages, annular compression chambers around the outside of the pistons, plungers on tne ends of the cylinder movable in said compression chambers, and ports in the walls of each cylinder member registering with a compresson chamber at predetermined position of the cylinder member.

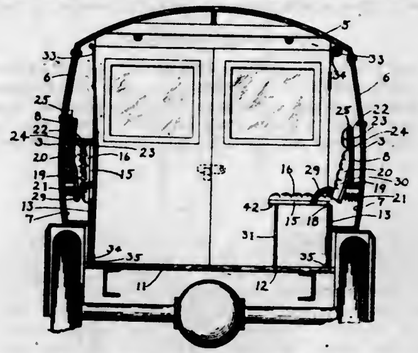
1,427,633. PACKING CASE. HENRY HAROLD READ, London, England. Filed Nov. 12, 1921. Serial No. 514,749. 4 Claims. (Cl. 217—69.)



1. A packing case of the kind set forth wherein the contiguous edges of boards forming the sides or ends of the case are connected together by means of angle plates in each of which one branch is disposed between the contiguous edges of two adjacent boards and is secured to the edge face of one of said boards whilst the other branch is secured to one face of the contiguous board.

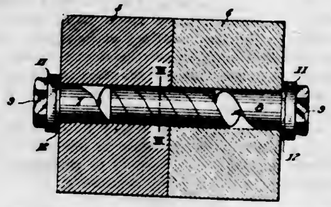
1,427,634. CONVERTIBLE VEHICLE BODY. WILLIAM REINHARDT, New York, N. Y. Filed July 6, 1920. Serial No. 394,303. 8 Claims. (Cl. 296—1.)

1. In a convertible vehicle body adapted for use as a delivery or pleasure carrier and provided with outer and inner side-walls disposed so as to form a space therein-between and uprights forming a frame structure for said body; a plurality of collapsible seats disposed between said uprights, each of which comprises an upholstered seat member hingedly secured to said inner wall, an upholstered back rest member secured at its upper end to said outer wall, an expansion spring attached at one end to said outer wall and at its other end to the lower portion of said back rest member, an upholstered head rest member hingedly attached to the upper portion of said back rest member, means attached to the inner surface of said outer walls and said head rest member, for



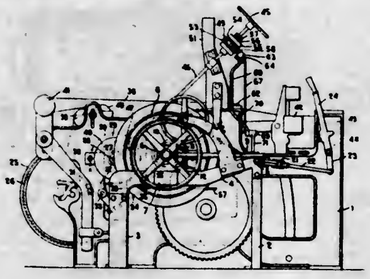
facilitating said head rest member being locked in operative position, means provided at said uprights and said seat member for facilitating the suspension of the latter, and legs swingably attached to said seat member, substantially as described.

1,427,635. BOLT. THOMAS C. RESTAK, East Rochester, Pa. Filed Dec. 24, 1921. Serial No. 524,682. 5 Claims. (Cl. 85—1.)



1. A bolt of the class described comprising a pair of sections each including a shank formed spirally with the convolutions of the same spaced and having an integral head on one end thereof, said spiral shanks being adapted to be threaded one onto the other with the shanks thereof intertwined and means to automatically lock the shanks in intertwined relation against separating movement.

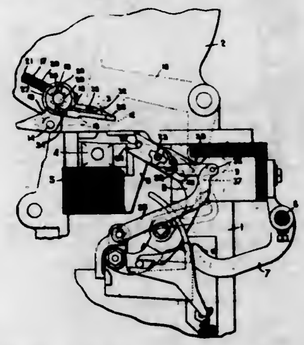
1,427,636. WARP-TENSION-LOCKING MECHANISM FOR LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 3, 1921. Serial No. 434,753. 12 Claims. (Cl. 139—59.)



5. In a loom comprising a warp beam and frictional means for applying tension upon the warp and stop

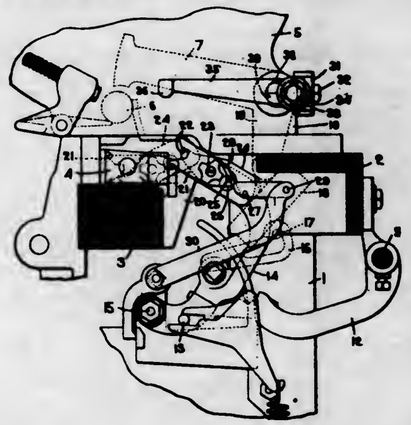
mechanism for arresting the operation of the loom, means automatically operable by said stop mechanism to lock said tension applying means when said stop mechanism is actuated to stop the loom and to release said locking means after said mechanism is actuated to start the loom.

1,427,637. FILLING CLAMPING AND PARTING MECHANISM FOR LOOMS. ALONSO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 14, 1921. Serial No. 469,599. 3 Claims. (Cl. 139—85.)



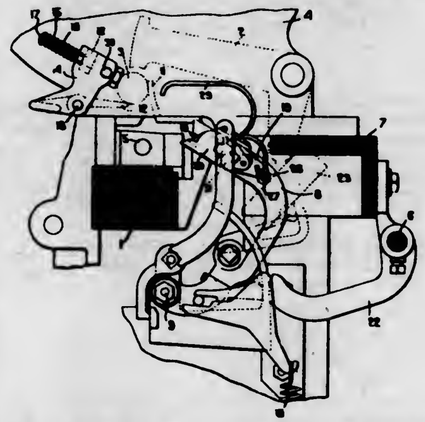
1. An automatic filling replenishing loom comprising a lay, a replenishing magazine for the fresh filling carriers, means for transferring a fresh filling carrier from the magazine to the lay, a filling clamping and parting device movable into position to receive the running filling when the lay is in position for transfer, a filling carrier support moved by a fresh filling carrier upon its transfer from the magazine to the lay, and a striker arm movable with the support and acting to close the filling clamping and parting device when in operative position and yieldingly movable with respect to the support upon the occurrence of an abnormal resistance.

1,427,638. FILLING CLAMPING AND PARTING MEANS FOR LOOMS. ALONSO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 23, 1921. Serial No. 494,526. 2 Claims. (Cl. 139—85.)



1. An automatic filling replenishing loom comprising a magazine to contain a supply of fresh filling carriers, a pivotally mounted transferrer arm acting when actuated to swing downwardly and transfer a fresh filling carrier from the magazine to the lay, a shuttle feeler movable toward and from the lay and acting when moved to its rearward position to effect the actuation of the transferrer arm, filling clamping and parting means including a movable blade mounted on the shuttle feeler, a bracket secured to and movable with the transferrer arm, a rigid actuator arm projecting rearwardly over the movable blade when in its rearward operative position and pivotally mounted on the bracket and means permitting the actuator arm to yield upwardly and turn on its pivotal mounting upon the occurrence of any abnormal resistance, the said actuator arm, upon the actuation of the transferrer arm, striking the movable blade and moving it to closed position.

1,427,639. FILLING CLAMPING AND PARTING MECHANISM FOR LOOMS. ALONSO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Sept. 23, 1921. Serial No. 502,662. 2 Claims. (Cl. 139—85.)



1. An automatic filling replenishing loom comprising a lay, a replenishing magazine for the fresh filling carriers, means for transferring a fresh filling carrier from the magazine to the lay, a filling clamping and parting device, a support for the filling clamping and parting device moveable toward and from the lay and acting to position the filling clamping and parting device to receive the running filling when the lay is in position for transfer, a moveable filling carrier support moved by the filling carrier upon its discharge from the magazine to the lay, a resilient actuator lever fulcrumed transversely of and on the support for the filling clamping and parting device and having one arm extending forwardly and engaging at its end the moveable member of the filling clamping and parting device and having the other arm extending rearwardly and beneath the filling carrier support when the parts are in rearward operative position whereby upon transfer taking place the actuator lever will be moved by the filling carrier support to operate the filling clamping and parting device to clamp and part the filling and will yield upon the occurrence of an abnormal resistance.

1,427,640. FEEDER. EMMIT D. RICHARDSON, Cawker City, Kans. Filed Oct. 5, 1920. Serial No. 414,890. 1 Claim. (Cl. 214—83.)

A feeder, including a body portion, an axle, wheels attached to the outer ends of said axle, uprights extending between and engaging said body portion and axle respectively and extending below the latter, braces extending between the lower ends of the uprights and the body portion of the feeder, draw beams extending from certain of said uprights beyond one end of the body



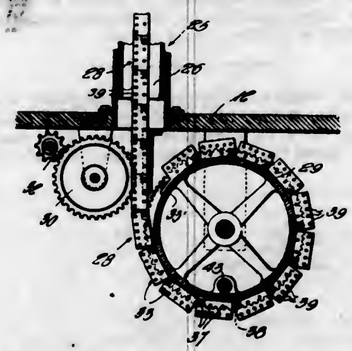
portion of said feeder, and counter braces extending between the body of said feeder to a point adjacent the outer ends of said draw beams.

1,427,641. STEERING MECHANISM. GERHARD RIESNER, Melrose, Minn. Filed June 23, 1921. Serial No. 479,865. 3 Claims. (Cl. 280—33.6.)



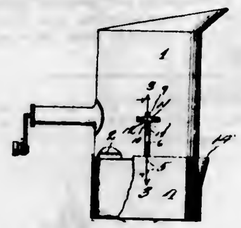
1. In a device of the class described, a transverse head member adapted to be coupled to the machine to be moved and having diverging side members, segmental plates in spaced relation and connected to the free ends of said diverging members, a draft tongue pivotally coupled to said transverse member and extending between said spaced segmental plates and movable laterally between the same, a lever member pivoted at one end relative to said tongue, a keeper device loosely engaged by said lever member, and links connected respectively to said keeper device and to said diverging members.

1,427,642. HOISTING CHAIN. WARREN P. RICKARD, Plymouth, Mass. Filed Oct. 20, 1921. Serial No. 509,153. 1 Claim. (Cl. 227—20.)



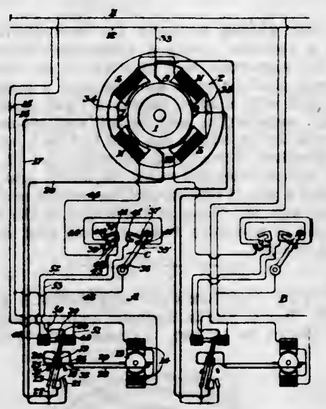
A flexible hoisting chain composed of a plurality of relatively short links which are H-shaped in cross section to provide channels, a plurality of transversely disposed pins arranged in one of said channels and connected to the side walls thereof to form teeth for cooperation with the teeth of a gear or the like, and blocks arranged in the remaining channel, one end of each of the blocks extending beyond one end of the respective link and being apertured, the remaining end of said block terminating short of the opposite end of the link and forming a space in which the extended end of the block of the adjoining link is received.

1,427,643. FLOUR-SIFTER ATTACHMENT. CORA RUDE, Volin, S. Dak. Filed Nov. 5, 1920. Serial No. 421,905. 2 Claims. (Cl. 83—60.)



1. The combination with a culinary sifting device having a screen in the bottom thereof, of a detachable receptacle carried by said sifter and disposed below the lower end thereof, said receptacle at diametrically opposite walls thereof being provided with upwardly extending spring arms having recesses adjacent their upper ends, the upper portions of the spring arms extending outwardly and upwardly and forming guiding means for guiding the lower end of the sifter into place within the opening of the detachable receptacle, members carried by the sifter and adapted to be received by the recesses of the spring arms, a spout carried by the detachable receptacle and so positioned that when the detachable receptacle is in place, material which is forced through the sifter may be poured from the detachable receptacle without detaching the detachable receptacle.

1,427,644. ELECTRIC-ELEVATOR-CONTROL SYSTEM. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Nov. 7, 1919. Serial No. 336,846. 2 Claims. (Cl. 172—152.)



1. In an electrical system in combination, a multi-voltage generator having a plurality of pairs of poles, a plurality of pairs of brushes associated, one pair with each pole pair, separate load circuits subject to reversal of power interchange with the generator connected each across a separate and distinct pair of said brushes, means for controlling each said load circuit independently of the others for frequent and rapid interchange of energy between the circuits.

1,427,645. PROCESS OF MANUFACTURING VEGETABLE PROTEID SUBSTANCES. SADAKICHI SATOW, Sendai, Japan. Continuation of application Serial No. 131,468, filed Nov. 15, 1916. This application filed Aug. 20, 1918. Serial No. 250,633. 5 Claims. (Cl. 99—11.)

2. In the production of refined vegetable proteids, the process which consists in extracting with a liquid vegetable

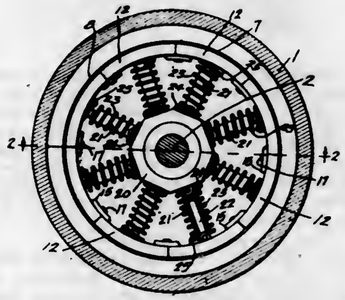
proteid containing material, then centrifuging and then filtering the extract, then fractionally precipitating the filtered liquid to remove the foreign matter therefrom, then filtering the fractionally precipitated liquid to secure a clarified transparent clear solution, and finally separating the refined vegetable proteids from the resulting clear transparent liquid.

1,427,646. FLAG HOLDER. CHRISTIAN SELISNIK, Cleveland, Ohio. Filed June 20, 1921. Serial No. 479,069. 3 Claims. (Cl. 46—40.)



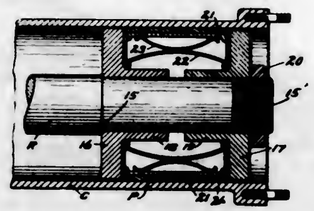
1. A flag waving device of the class described comprising a platform having a transverse elongated slot, means for supporting said platform at an elevated position, said platform being provided with a socket at one end of said slot, a figure having a rigid depending pin rockingly engaging in said socket and supporting the figure upon the platform, a flag staff in fixed relation to the figure extending through the transverse slot of the platform to points above and below the latter, said flag staff comprising a pair of telescopically-associated sections relatively movable for changing the length of the flag staff, and means to releasably retain the flag staff sections in adjusted relation.

1,427,647. AUTOMATIC EXPANSIBLE PACKING HEAD. RAY C. SHARP, Anaheim, Calif. Filed Apr. 28, 1921. Serial No. 465,297. 2 Claims. (Cl. 74—109.)



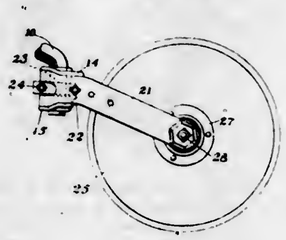
1. A packing head comprising a piston rod, a sleeve upon the rod and having an end flange adapted to fit loosely within a cylinder and forming one end of the head, a disc adapted to fit loosely within the cylinder and mounted upon the piston rod against the sleeve, nuts upon the piston rod below the sleeve and above the disc, a peripheral strip fitting between the disc and the end flange and having overlapping tapering ends, a packing ring around the peripheral strip and adapted to fit the cylinder, arcuate members mounted within the peripheral strip and having tongue and recess connections, bars overlapping the tongue and recess connections, lugs projecting from the arcuate members into the bars, a second sleeve rotatably mounted upon the first sleeve, tubes pivoted to the second sleeve, pins pivoted to the arcuate members and mounted telescopically in the tubes, and coil springs mounted around the tubes between the arcuate members and the second sleeve, the tensions of said springs being exerted to press the packing against the wall of the cylinder and so that by removing the disc the second sleeve may be rotated to release the tension of the springs so that the head may be removed from the cylinder.

1,427,648. EXPANSIBLE PACKING HEAD. RAY C. SHARP, Los Angeles, Calif. Filed Nov. 26, 1921. Serial No. 517,939. 4 Claims. (Cl. 74—109.)



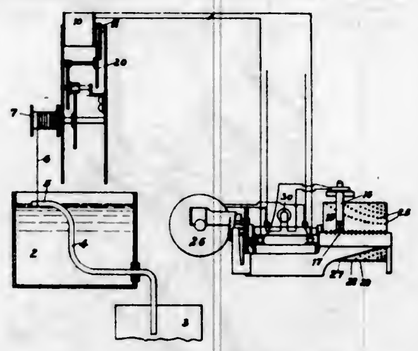
1. A piston head comprising a pair of discs, an expansible packing ring between the discs, two annular series of leaf springs arranged between the discs, with the springs of one series arranged in contacting relation with the springs of the other series, and one of said discs being movable to effect an expansion of one set of springs to cause a radial expansion of the packing ring through the medium of the other set of springs.

1,427,649. MEANS FOR MOUNTING COLTERS. WALTER H. SILVER, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Sept. 10, 1920. Serial No. 409,428. 14 Claims. (Cl. 97—43.)



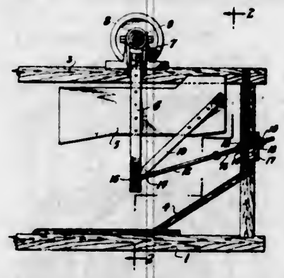
1. A colter fork comprising a sleeve-shaped bracket having a lateral projection, means for holding said bracket rotatably in position, arms formed by a bar bent upon itself about said bracket, and a bolt passing through said arms and lateral projection on the bracket for securing said parts rigidly together.

1,427,650. WATER-TREATING APPARATUS. CHARLES H. SPANGLER, Reading, Pa., assignor, by direct and mesne assignments, to Metropolitan Edison Company, Reading, Pa., a Corporation of Pennsylvania. Filed Aug. 24, 1920. Serial No. 405,637. 4 Claims. (Cl. 210—30.)



1. In an apparatus for treating boiler-feed water, a chemical liquid reservoir having an adjustable delivery conduit; means for adjusting said conduit comprising an electromagnet; and an electromagnetic circuit closing mechanism comprising relatively adjustable contacts.

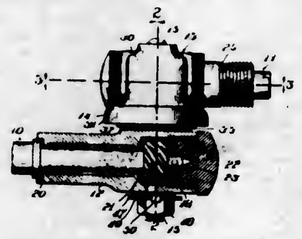
1,427,651. COAL JIG. JOHN J. STEINBACH, Scranton, Pa., assignor to Wilmot Engineering Company, Hazleton, Pa., a Corporation of Pennsylvania. Filed May 5, 1920. Serial No. 379,007. 2 Claims. (Cl. 83—80.)



1. In a jig structure, the combination of a tank, a rotatable shaft supported above said tank, said shaft being provided with eccentrics, bars supported upon and suspended from the said eccentrics and extending into the said tank, a jig pan rigidly secured to intermediate portions of said bars, holding and guiding rods having adjustable connection at their outer ends to a wall of the said tank, the said rods extending inwardly and downwardly, and having connection at their inner ends with portions of the said bars a distance below the said jig pan and the inner portions of said holding and guiding rods having pivotal connections with the outer portions thereof, substantially as described.

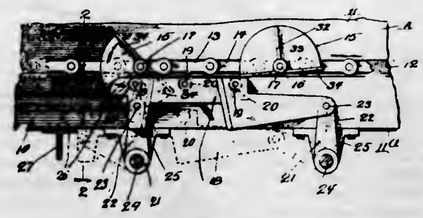
1,427,652. SHAFT-CONNECTING SWIVEL AND GEARING. FRANKLIN W. STEWART, Chicago, Ill. Filed June 14, 1919. Serial No. 304,096. 6 Claims. (Cl. 64—92.)

6. In a swivel joint for geared shafting, the combination of meeting shell sections each having a barrel, driving and driven shafts mounted in the shaft-barrels and connections including a shaft extending through and retaining the meeting shell sections, said shell sections



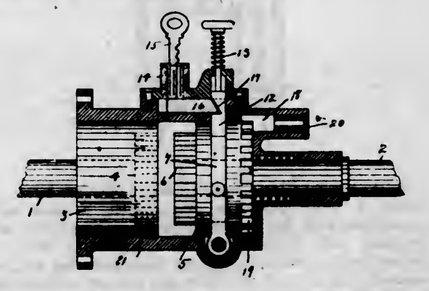
having opposed, enlarged, plain bearing surfaces disposed at an oblique angle to the axis of the connection-shaft and interfitting to give lateral and longitudinal pressure between the surfaces and make the bearing self-centering.

1,427,653. DUMPING MECHANISM FOR CONVEYERS. PAUL B. STREICH, Joliet, Ill., assignor to Union Machinery Company, Joliet, Ill., a Corporation of Illinois. Filed Sept. 19, 1921. Serial No. 501,778. 6 Claims. (Cl. 214—62.)



1. Dumping mechanism for swinging buckets of an endless conveyer, comprising a vertical and a horizontal rib on each bucket, a stud supporting bracket, having an active and an inactive position, and a plurality of spaced buckets engaging studs supported thereby, when in active position, in horizontal alignment with each other, and in the path of movement of said vertical ribs of the buckets, the foremost stud being spaced away from the next adjacent one sufficiently to permit the horizontal ribs of the buckets to swing down in front thereof when the vertical rib is engaged and swung out of vertical position by the foremost stud, whereby said second mentioned stud may invert the bucket when the latter is moved past it.

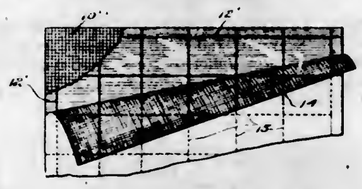
1,427,654. AUTOMOBILE LOCK. WILLIAM C. THIELL, Baltimore, Md. Filed July 13, 1920. Serial No. 395,818. 1 Claim. (Cl. 192—114.)



An automobile lock comprising a clutch casing, a drive shaft comprising two sections each projecting into said

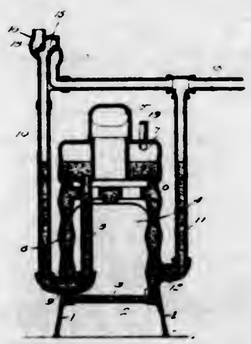
clutch casing, a clutch face fixed to the end of one of the sections of said drive shaft and having internal gear teeth, a clutch face slidably mounted on the other section of said drive shaft and having an annular recess therein and external gear teeth, a shaft mounted in said casing at right angles to the drive shaft and having two arms projecting therefrom, a roller on the end of each of said arms and projecting into said recess in the slidable clutch face, a lever to operate said last named shaft to throw the slidable clutch face into or out of engagement with the other clutch face, a bolt adapted to project into the recess in the slidable clutch face, a spring to hold the said bolt normally out of engagement with the slidable clutch face, and a lock to hold the bolt in the slidable clutch face.

1,427,655. FLOOR COVERING. WILLIAM G. THOMAS, Jr., Newark, N. J., assignor to Safepack Mills, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 14, 1918. Serial No. 257,982. Renewed Jan. 28, 1922. Serial No. 532,498. 4 Claims. (Cl. 154—49.)



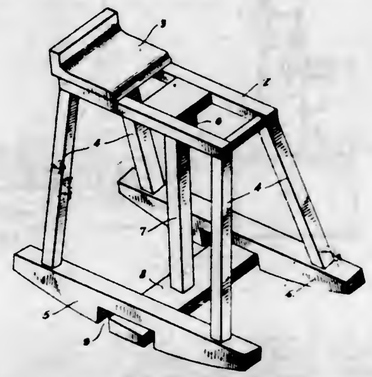
1. A floor covering, composed of a base layer of paper, a layer of asphaltic pitch binder applied thereto with a net work of reinforcing filaments in criss-cross relation embedded in said binder, and a top surface layer of relatively heavy paper resistant of pitch impregnation applied to said pitch layer with a print surface impressed thereon, said layers being held together to constitute a unitary floor covering by said pitch binder.

1,427,656. PROCESS AND APPARATUS FOR PRODUCING AND MAINTAINING A VACUUM. THOMAS TIBBETTS, Ellicott City, Md., assignor of three-fourths to John C. Tibbetts, Ellicott City, Md. Filed Dec. 24, 1917. Serial No. 208,597. 9 Claims. (Cl. 230—16.)



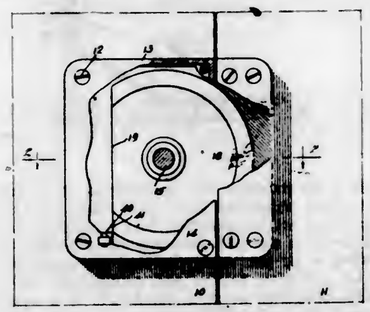
3. In a device for maintaining a vacuum in a container, a boiler having a steam dome, a tube having connection with the bottom of the steam dome and being provided with a connecting arm extending above the steam dome, a container having communication with said connecting arm near the upper end thereof, a check valve for permitting the passage of air from the container into the connecting arm, but preventing the reverse flow of the air, and a check valve carried by said connecting arm near the top thereof, for permitting the exit of air from the connecting arm and for preventing the entrance of air into the connecting arm from the outer atmosphere.

1,427,657. TRAVELING TOY. JOACHIM TORRES-GARCIA, New York, N. Y. Filed May 13, 1921. Serial No. 469,087. 2 Claims. (Cl. 46—22.)



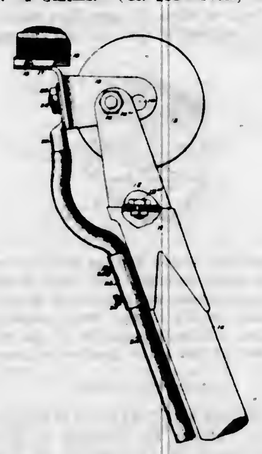
1. A traveling toy, comprising a body provided with rockers, a depending member pivoted to said body between said rockers, and normally occupying a position at one side of its pivotal point, the member being adapted to swing to the opposite side of said pivotal point when the body is rocked in one direction, and means carried by the depending member and adapted to engage the rockers for limiting said swinging movement, said means being also adapted to engage the floor on the reversal of the rocking movement of the body.

1,427,658. CLOSURE FASTENER. HENRI VENTRE, New York, N. Y. Filed Apr. 22, 1921. Serial No. 463,511. 1 Claim. (Cl. 292—207.)



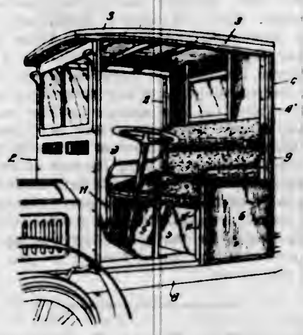
A closure fastener comprising a housing, a keeper provided with a curved slot substantially T-shaped in cross section, a latch member rotatably mounted in the housing, said latch member comprising a substantially circular member having a flat side, the curved portion of the body of said latch member having oppositely disposed continuous flanges adapted to be received within the T-shaped slot of the keeper to prevent relative movement of the housing relative to the keeper, and a sliding latch member adapted to be moved into the path of the rotating latch member and engage the flat side thereof to limit the rotating movement of the latch member relative to the keeper and the housing, substantially as described.

1,427,659. TROLLEY HARP. JAMES GROVER VINSON, Graham, Ky., assignor of one-half to Robert L. Coleman, Graham, Ky. Filed Mar. 4, 1922. Serial No. 541,075. 4 Claims. (Cl. 191—59.1.)



1. In a trolley, a fitting adapted to be mounted on a trolley pole, a bracket mounted on said fitting to lie transverse to the axis of the pole, a trolley wheel mounted in said bracket forward of the connection between said bracket and said fitting, and a brush holder carried by said bracket rearward of the trolley wheel.

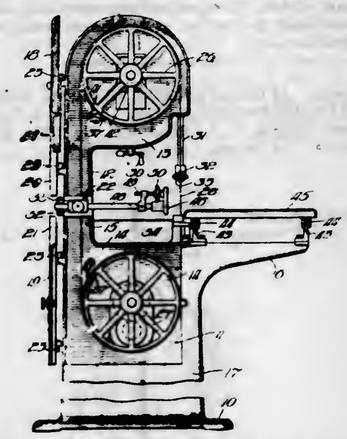
1,427,660. AUTOTRUCK CAB. DANIEL W. VOLTZ, EDWARD C. VOLTZ, and GEORGE E. HAMMEL, Chicago, Ill., assignors to Voltz Brothers, Chicago, Ill., a Corporation of Illinois. Filed June 16, 1921. Serial No. 477,890. 4 Claims. (Cl. 296—102.)



4. A truck cab comprising a permanent front, a door post detachably secured to said front, a seat post, an extension post detachably secured to the seat post and to the top of the cab, a door hinged to the door post on the front of the cab, and interlocking means on the door and said extension post.

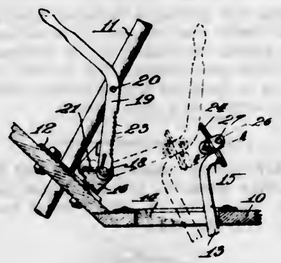
1,427,661. MEAT CUTTER. FRED G. WALKER, Chicago, Ill., assignor to Jones Superior Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1920. Serial No. 356,324. 2 Claims. (Cl. 143—17.)

1. In a machine of the kind described, the combination of a framework casing forming two connected and enclosed chambers, a wheel in each chamber, a band saw extending around and between the two wheels and disposed in part in open space between the chambers, a door in the casing between the wheel chambers, and an adjustable saw



gauge mounted on the door adapted to be moved away from the saw when the door is opened, substantially as described.

1,427,662. LOW-GEAR LOCK AND THEFT-PREVENTING DEVICE FOR AUTOMOBILES. HARRY L. WARD and HARRY E. WARD, Long Beach, Calif. Filed Jan. 26, 1921. Serial No. 440,175. 1 Claim. (Cl. 70—128.)



In combination, a fixedly sustained bracket, a lever pivoted on the bracket and including a rack portion, a plate adapted for clamping to a gear shifting pedal, an arm formed on the plate, a tooth on said arm adapted to engage said rack portion, means for urging the lever to a position in which the rack portion disengages said tooth, a stop on the bracket for defining the urged position of said lever, and means engaging said arm and lever for locking the rack portion in engagement with said tooth.

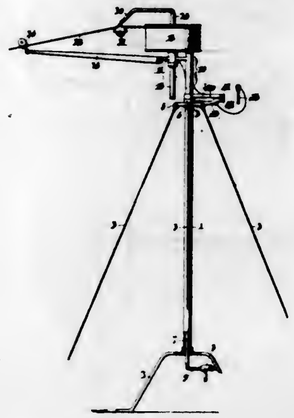
1,427,663. FOLDING SHELF, SHUTTER, AND THE LIKE. ARCHIBALD JOHN WARE, Birmingham, England, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Filed Aug. 24, 1921. Serial No. 494,775. 8 Claims. (Cl. 248—18.)



2. In a folding shelf, a pair of brackets rigidly secured to any suitable supports, T-shaped recesses in said brack-

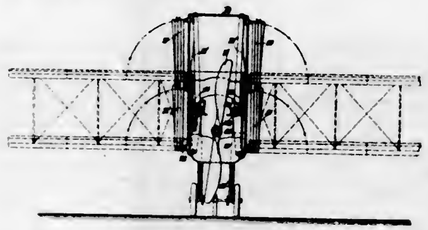
ets, pivotal projections on said shelf, said projections being of oblong cross section and being adapted to fit in one part of said T-shaped recesses when the shelf is in the horizontal position so as to prevent rotation of the said projections.

1,427,664. APPARATUS FOR GUIDING INDEPENDENTLY-MOVING ELEMENTS. HERBERT I. WASHBURN, Laurel Springs, N. J. Filed Aug. 21, 1917. Serial No. 187,495. 20 Claims. (Cl. 97—81.)



1. Apparatus for guiding a tethered moving element comprising a tether post element, a tether and means, actuated by angular movement of the tethered element about said tether post element, for varying the length of tether so as to limit the moving element, when at the extreme of its tether, to a spiral course.

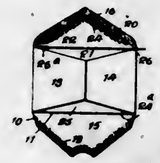
1,427,665. AIRPLANE. JOHN A. WEIS and FREDERICK J. KNORR, New York, N. Y.; said Knorr assignor to said Weis. Filed Aug. 10, 1920. Serial No. 402,618. 36 Claims. (Cl. 244—12.)



1. In an airplane, a plane shiftable from a normal and extended operative to an inoperative position, devices for shifting said plane from its normal and extended operative position to its inoperative position, and means for operating the said devices automatically upon the alighting of the airplane.

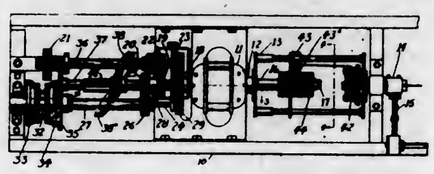
1,427,666. SAFETY ENVELOPE AND OPENER. WILLIAM WEISS, Bayonne, N. J. Filed Dec. 29, 1920. Serial No. 433,821. 4 Claims. (Cl. 229—80.)

1. A safety envelope, comprising an outer member and a separate inner member, the outer member having a substantially rectangular front section with side flaps, a lower flap and upper flap, all folded upon the front section, and the inner member consisting of an approximately rectangular body section with a flap, said inner member being arranged within the outer member so that its body section lies upon and is held to the front section of the outer member under its flaps and the flap of the inner member lapping upon the side flaps under the lower flap of the outer member so that the top flap of the outer



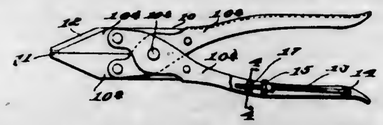
member overlaps the lower flap as well as overlapping the flap of the inner member, said flaps being sealable whereby a separate sheet when inserted in the envelope between the body section of the inner member and the overlapping flaps will be inaccessible if the folded edge of the upper flap of the outer member be severed.

1,427,667. SPINNING AND BALLING MACHINE. LOUIE E. WHITCOMB, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Nov. 26, 1920. Serial No. 426,400. 5 Claims. (Cl. 118—52.)



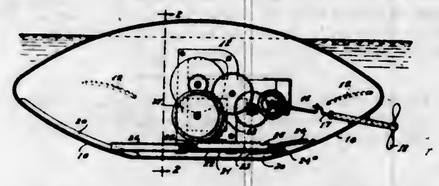
1. A balling and spinning machine comprising the combination with spinning mechanism producing twine at a constant speed, of balling mechanism comprising means for tensioning and guiding the twine and means for winding the twine in a cop, including a flyer and spindle driven at differing rotative speeds by driving means connected to both, means permitting increase in the rotative speed of the spindle as the cop is being formed, and means for reciprocating the spindle during rotation, including means governed by change in rotative speed of the spindle for slowing its rate of reciprocation as its rotative speed is increased; said means including a differential transmission having gears driven from the flyer and spindle respectively and connected to the reciprocating means for the spindle by gearing driven at a speed governed by the difference in the respective speeds of said gears.

1,427,668. PLIERS. FRANCIS H. WILLIAMS, Boston, Mass. Filed Sept. 14, 1920. Serial No. 410,230. 4 Claims. (Cl. 249—43.)



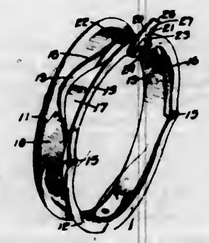
1. A hand tool of a pliers type having clamping jaws with corner extremities beveled off at one side thereof and with an edge of one jaw extending backward a substantial distance from such beveled corner, also beveled off to afford clearance for an operating tool.

1,427,669. TOY SUBMARINE. EDWARD B. WILSON and PERCY H. BEAT, Bridgeport, Conn. Filed June 29, 1921. Serial No. 481,264. 2 Claims. (Cl. 46—39.)



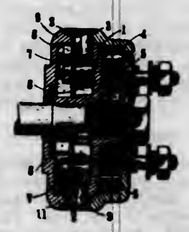
1. In a submarine boat, driving mechanism set to propel said boat in a plane approximately coinciding with the longitudinal horizontal plane of the boat, and means for shifting the center of gravity of said boat to alternately maintain the same in horizontal and oblique positions, a spring motor mounted in a frame secured to the boat and including a segment of a gear, a guide-way secured to the lower portion of the motor frame, a weight and rack slidable in said guide-way and adapted to be engaged by the segment and moved longitudinally of the boat to tilt the same, and a spring for returning the weight and rack when disengaged by the segment, whereby the boat will level itself to be driven directly forward and at the same time rise in said body of water.

1,427,670. DEMOUNTABLE RIM FOR VEHICLE WHEELS. EDWARD G. WILAM, Taylor, Pa. Filed Jan. 20, 1922. Serial No. 530,620. 5 Claims. (Cl. 301—35.)



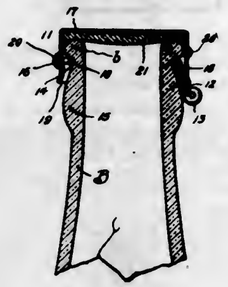
1. A demountable rim for vehicle wheels comprising a channeled member having radially extending flanges and a web connecting them, a complemental member carrying a portion of one side flange and parts of said web, a lug on said body member projecting through said complemental member, and means for engaging the lug to hold the parts in operative position, substantially as set forth.

1,427,671. MAGNETO-ELECTRIC MACHINE. ARTHUR PRIMROSE YOUNG, Kenilworth, England. Filed Nov. 15, 1920. Serial No. 424,062. 6 Claims. (Cl. 123—149.)



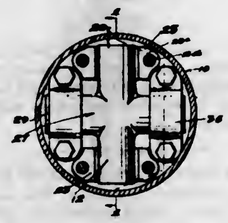
1. An impulse starter for an internal combustion engine in which the charge is ignited by a spark produced by a magneto electric machine comprising in combination a disc member rigidly secured to the shaft of the magneto, a cup shaped member surrounding the disc member and resiliently secured thereto, said cup shaped member being also rigidly secured to the engine shaft, and a third member rigidly secured to the frame of the magneto, a pivoted pawl carried by the disc member, a stop on the third member engaged thereby and means for automatically withdrawing the pawl in a radial direction from engagement with the stop when the engine shaft has been rotated through a predetermined angle.

1,427,672. BOTTLE CLOSURE. CHARLES ZEHNBAUER, Jersey City, N. J. Filed Sept. 1, 1921. Serial No. 497,793. 3 Claims. (Cl. 215—44.)



1. The combination with a bottle neck having a continuous bead and a smooth seat next below said bead, of a split ring applied around said bead and seated in said seat and having radial projections extending laterally therefrom, and a cap embracing the beaded portion of the neck and having a plurality of spiral grooves to receive the respective ring projections.

1,427,673. UNIVERSAL PISTON-ROD CONNECTION. GEORGE P. ALLEN, Los Angeles, Calif. Filed Oct. 11, 1920. Serial No. 416,236. 2 Claims. (Cl. 74—108.)

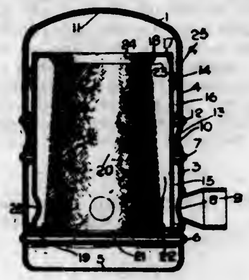


1. The combination with a piston head having sets of internally arranged integrally formed depending convergent webs and coaxially spaced bearings formed on the ends of respective sets of said webs, of a cruciform bearing block having a pair of its arms journaled in said bearings and a connecting rod having a bifurcated end that engages the other pair of arms of said bearing block.

1,427,674. DUST COLLECTOR. WILLIAM THOMAS BLANEY, Peterborough, Ontario, Canada. Filed Apr. 10, 1922. Serial No. 551,175. 3 Claims. (Cl. 183—67.)

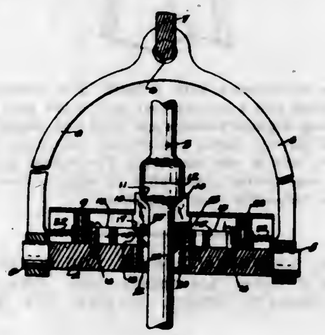
1. A dust collector comprising an outer casing, having an outlet orifice adapted to be connected to a suction source and an inlet orifice through which the outer air is adapted to pass, an inner casing spaced apart from the outer casing to form an interspace, an annular dividing wall extending across such interspace between the outlet

and inlet orifices, a cylindrical screen supported within the inner casing and into one end of which the air from



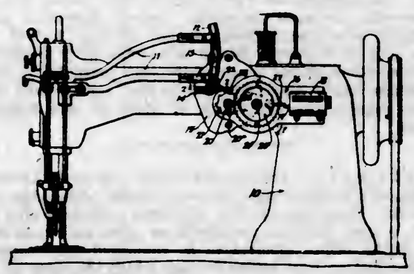
the inlet orifice is adapted to be drawn so as to pass through the walls thereof to the outlet orifice at the opposite side of the aforesaid dividing wall.

1,427,675. AUTOMATIC SUCKER-ROD ELEVATOR. WALTER W. H. BURNETTE, Fillmore, Calif., assignor of one-half to Robert F. Fitz, Los Angeles, Calif. Filed Aug. 17, 1920. Serial No. 404,226. 4 Claims. (Cl. 294—91.)



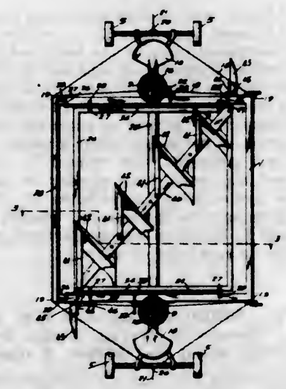
1. An elevator comprising a plate having a bore and a radial slot extending from said bore, axially movable jaws adapted to be engaged by a rod within said bore, and locking rods adapted to be projected across said slot by the movement of said jaws.

1,427,676. MEASURING ATTACHMENT FOR SEWING MACHINES. STEVEN C. COPOLL, Los Angeles, Calif. Filed June 27, 1921. Serial No. 480,877. 6 Claims. (Cl. 234—91.)



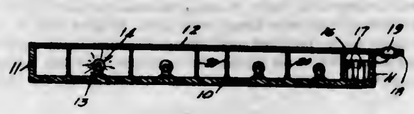
4. In a hemstitching machine, including a rocker arm, a cam for vibrating the rocker arm and laterally shifting one end of the latter at intervals, counting mechanism, and means operable by the lateral movement of the rocker arm for actuating the counting mechanism, said means including a ratchet wheel, and a pawl carried by the rocker arm and associated with the ratchet wheel in such manner that it is actuated to rotate the ratchet wheel only when the rocker arm is shifted laterally.

1,427,677. REVERSIBLE PLOW. CHARLES B. CULBERTSON, Pasadena, Calif. Filed Apr. 11, 1921. Serial No. 460,800. 4 Claims. (Cl. 97—50.)



1. A reversible plow comprising a rectangular main frame, a rectangular secondary frame fitting in the main frame, a longitudinal shaft mounted in the main frame and extending through the secondary frame at its center and forming a pivot for the secondary frame, a diagonal member mounted in the secondary frame, plow shares mounted upon the diagonal member and extending in opposite directions, and means for raising the main frame to raise the plow shares so that they can be reversed.

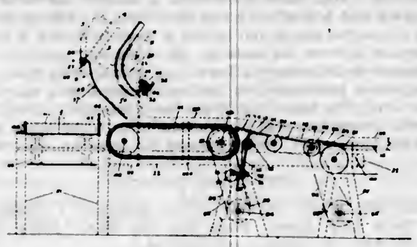
1,427,678. ILLUMINATED ADVERTISING DEVICE. FRANK D. CUMMINGS, Los Angeles, Calif. Filed Aug. 3, 1921. Serial No. 489,462. 2 Claims. (Cl. 40—132.)



1. In an illuminated signal device, a housing having a translucent section forming a cover for the housing, said section being marked to represent streets and business institutions of the definite section of a given district in a city, electric lamps arranged in respective association with the marked portions of the cover section, and electric circuits for said lamps and which circuits each include a normally open switch, all business institutions of a kind being specially indicated by concurrently displayed signs when a selected switch of a given index as to kind of institution, is closed.

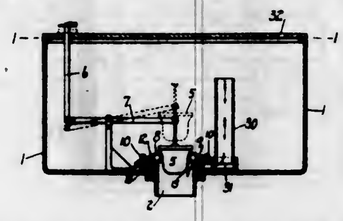
1,427,679. APPARATUS FOR HANDLING BREAD. GUSTAV BERNHARD EGGERT, Saginaw, Mich., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich., a Corporation of New York. Filed Nov. 30, 1921. Serial No. 518,876. 16 Claims. (Cl. 198—30.)

1. An apparatus for handling bread, comprising a device for automatically righting the loaves as soon as they have been tipped from their pans, means for automatically allineating the righted loaves, and a cooling conveyer



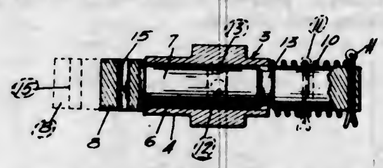
carrying the righted and allineated loaves to the store room.

1,427,680. VALVE. ANDREW J. ENGLISH, Cincinnati, Ohio, assignor to George J. Uckotter, Cincinnati, Ohio. Filed Sept. 26, 1918. Serial No. 255,868. 1 Claim. (Cl. 251—167.)



A valve seat formed of a one piece coiled spring in annular shape and capable of expanding and contracting, combined with a flexible material enveloping the same and extending materially outward therefrom to allow play for the spring.

1,427,681. OIL-GAUGE VALVE. JOHN E. EVANS, Los Angeles, Calif., assignor of one-half to Earl H. Goodwin, Los Angeles, Calif. Filed Sept. 15, 1921. Serial No. 500,860. 2 Claims. (Cl. 137—139.)

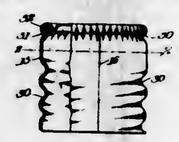


1. A valve comprising a body having a duct formed therein, a stem mounted for sliding movement in the body and transversely of the duct, said stem being formed at a point intermediate its ends with an annular channel, a head formed on one end of the stem, said stem being capable of occupying one extreme position in which the channel is in registration with the duct, and another extreme position in which the head engages the body and the channel is disposed substantially exteriorly of the body to allow of the cleaning thereof, and resilient means on the stem and engaging the body for normally urging the stem to the second extreme position.

1,427,682. CORK SUBSTITUTE AND PROCESS OF MANUFACTURE. EMMA E. GRAHAM, Seattle, Wash. Filed Jan. 14, 1920. Serial No. 351,440. 5 Claims. (Cl. 92—1.)

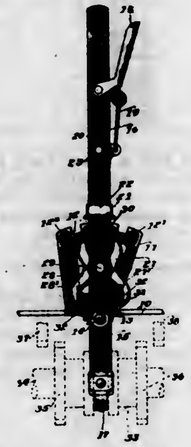
1. The process of treating wood to render the same resilient which consists in immersing said wood in a solution consisting of water and bicarbonate of soda, then immersing it in a solution consisting of water and wood-ash lye which penetrates the same, the temperature of the solutions and said wood during its treatment being maintained at approximately one hundred and eighty degrees Fahrenheit.

1,427,683. CLOSURE. EUGENE L. GREENEWALD, Washington, D. C. Filed Apr. 5, 1916. Serial No. 89,078. 27 Claims. (Cl. 215—44.)



1. A bottle or jar closure comprising a body having a thread at one end consisting of a helically extending series of spot beads, and a cover part secured to the other end of said body.

1,427,684. LEVER. ALBERT GRIEVES, Springfield, Ohio, assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Aug. 13, 1917. Serial No. 185,940. 14 Claims. (Cl. 74—89.)



1. In a lever, the combination of two sections having a common pivot, and means pivotally carried by one of the sections tending to longitudinally align the other section therewith.

1,427,685. ROTARY CORE DRILL FOR OIL WELLS. PAUL C. HILL, Cement, Okla. Filed Dec. 9, 1921. Serial No. 521,128. 1 Claim. (Cl. 255—72.)

In a well drill as characterized, a hollow drill stem, a drill bit carried at the lower end of said stem, a straight sectional tubular sample taking device mounted vertically of said drill bit, the lower of the sections of said device being removably secured in said drill bit and having its lower end projecting for a distance below the lower end edge thereof and the upper of the sections being

removably secured in said drill bit and extending upwardly from the same within said drill stem and in alignment



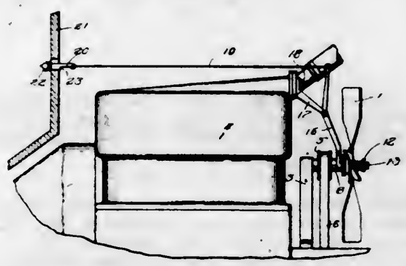
with the said lower sections, and a hinged closure at the free end of the upper of the sections of said device.

1,427,686. SAFETY RAZOR. PAUL J. JACCARD, New York, N. Y. Filed Dec. 15, 1921. Serial No. 522,647. 6 Claims. (Cl. 30—12.)



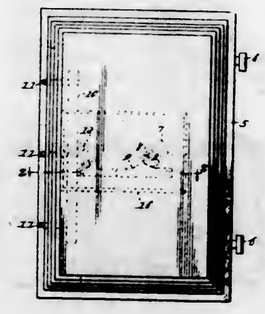
1. The combination with a safety razor having a cutting-blade and members for supporting the same with its edge guardedly presented, of an auxiliary blade similarly supported and having means for stretching the skin in advance of the edge of the cutting-blade.

1,427,687. DISCONNECTIBLE FAN FOR AUTOMOBILES. JOHN E. JOHNSON, De Kalb, Ill., assignor to Johnson Fan Co., Chicago, Ill., a Copartnership composed of C. O. Nelson, John E. Johnson, and Ernest E. Johnson. Filed Oct. 8, 1920. Serial No. 415,682. 3 Claims. (Cl. 123—171.)



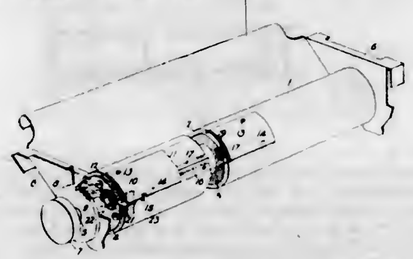
1. In a combination with the bolted top water connection of the engine casing and the radiator cooling fan and hub of an automobile, a stationary shaft on which the fan hub is freely rotatable, an engine driven pulley freely rotatable on the shaft, the fan hub and pulley having normally interlocked, clutch faces, a spring on the outer end of the shaft engaging the fan hub for normally holding the clutch faces interlocked, a bracket apertured to receive said bolt of the water connection for affixing same to the engine casing and having a depending part, a lever pivoted between its ends to the depending part of the bracket and having its lower end arranged in front of the pulley and straddling the fan hub for sliding same on the shaft, the upper end of the lever extending above the water connection, and means connected to the upper end of the lever and to the dashboard for operating the lever.

1,427,688. SAFE AND VAULT. MICHEAL J. KERLEY, Sioux City, Iowa. Filed Apr. 30, 1921. Serial No. 465,646. 2 Claims. (Cl. 109—6.)



1. In a safe or vault door having a locking bar, spurs carried by the locking bar, and a container for a poisonous element located in proximity to the spurs to be fractured by the spurs upon abnormal movement of the locking bar.

1,427,689. TYPEWRITING MACHINE. ALFRED G. F. KUHOWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 7, 1919. Serial No. 329,014. 8 Claims. (Cl. 197—136.)

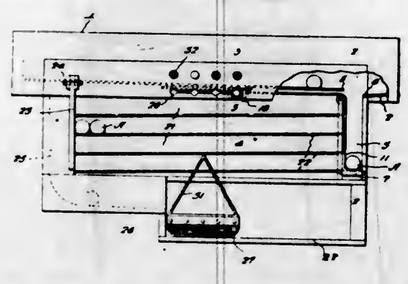


1. The combination with a platen, of a resilient plate secured thereto, and having one edge pressing against said platen to clamp a work-member thereagainst, and means to control the position of the clamping edge of said plate, comprising a cam-member pivotally supported at one end of said platen and normally flush with the surface of the platen, and at a point intermediate the ends of said platen, said cam-member lying in a depression in said platen, and being so formed that when turned from its normal position, it will be effective to engage said plate, and move the clamping edge to ineffective position.

1,427,690. PROCESS FOR THE MANUFACTURE OF MOLDED ARTICLES FROM CELLULOSE ETHERS. GUSTAV LEYSIEFFER, Troisdorf, near Cologne, Germany. Filed Jan. 7, 1921. Serial No. 435,731. 2 Claims. (Cl. 18—48.)

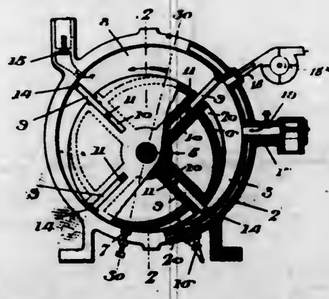
1. The process for the manufacture of highly heat-proof molded articles from cellulose-ethers, which consists in treating cellulose-ether with a quantity of a highly volatile solvent which just suffices to make the said cellulose-ethers to swell up to their largest extent, rolling the said substance into thin leaves at a temperature above the boiling point of the solvent, reducing the cooled leaves into a fine powder and pressing the said powder in molds heated beyond the melting point of the cellulose-ether into the desired article.

1,427,691. ATTACHMENT FOR POOL TABLES. JAMES H. MCCOOL, Ellsworth, Kans. Filed Jan. 11, 1921. Serial No. 436,451. 8 Claims. (Cl. 46—12.)



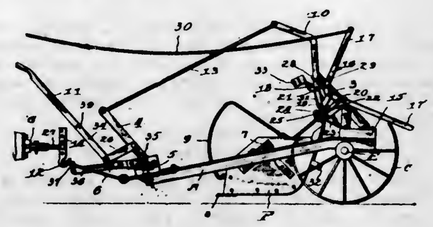
1. A ball racking attachment for pool tables comprising a plurality of compartments, an end compartment having communication with all of said first named compartments, and an elevator adjustable in said end compartment to guide balls into any one of said first named compartments, said first named compartments having ball supports therein inclining towards the outlet ends of the compartments, a hinged gate at the outlet ends of said compartments and adapted to normally restrain movement of balls out of the compartments.

1,427,692. INTERNAL-COMBUSTION ROTARY ENGINE. THOMAS C. MAHON and JULIUS P. BURNES, North Vancouver, British Columbia, Canada. Filed Sept. 26, 1919. Serial No. 326,492. 3 Claims. (Cl. 123—16.)



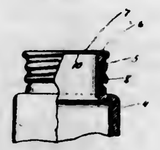
1. An internal combustion rotary engine having a driving head eccentrically mounted to rotate within a cylinder, which head is provided with vanes radially projecting from it and adapted to sweep the eccentric space between the driving head and the bore of the cylinder, means controlled by the ends of the vanes for controlling the admission of a charge of gaseous fuel and air between each pair of vanes whereby that indrawn charge may be compressed as the vanes approach the smaller dimension of the eccentricity, means for igniting the compressed charge after the leading vane has passed the smaller dimension of the eccentricity, means controlled by the end of each vane for exhausting the products of combustion, means controlled by the ends of the vanes for exhausting the residue of the products of combustion and for admitting a scavenging charge of external air through the space between each pair of vanes, and means for cutting off the inflow of external air whereby a partial vacuum may exist in the space between each pair of vanes as the leading vane of each space approaches the fuel inlet.

1,427,693. EARTH SCRAPER. ARTHUR R. MISKIN, Ucon, Idaho. Filed July 9, 1921. Serial No. 483,545. 10 Claims. (Cl. 214—73.)



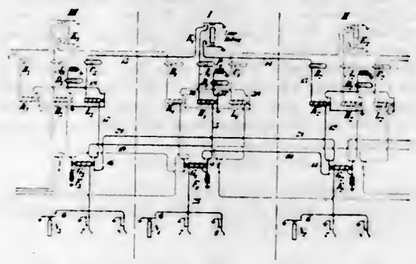
1. In an earth scraping machine, the combination, with a main frame carrying the scraping element and having running supports at its rear while its front end is free to move toward and from the surface of the ground, of a draft connection secured to the front end of the said frame, a draft attachment to which the draft connection is secured, fixed vertically, a lever pivotally supported on the front portion of the frame, a link between the said lever and the draft connection arranged so that the swinging of the lever causes the front portion of the frame to rise or fall, and a lock for the draft connection when the frame is in raised position.

1,427,694. CLOSURE FOR BOTTLES, JARS, AND OTHER RECEPTACLES. JOHN H. MONTGOMERY, New York, N. Y. Filed Dec. 24, 1919. Serial No. 347,119. 6 Claims. (Cl. 215—43.)



1. A bottle or the like receptacle provided exteriorly adjacent its mouth with a holding portion, and having a closure comprising an outside skirted cap with its top covering the mouth of the receptacle, the skirted portion provided with a holding portion cooperative with the exterior holding portion of the receptacle, and a secondary skirted cap of hydrated cellulose shrunk onto the portion of the receptacle which is covered by the closure and which is compressible between and relatively to the outer cap and the covered portion of the receptacle, the top of the secondary cap sealing the mouth of the receptacle and its skirt constituting a packing between the receptacle and the skirt of the outside cap.

1,427,695. SWITCHBOARD CALL-SIGNAL APPARATUS AND CIRCUITS. ROBERT W. MORRIS, Roslyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 15, 1919. Serial No. 282,831. 21 Claims. (Cl. 179—54.)



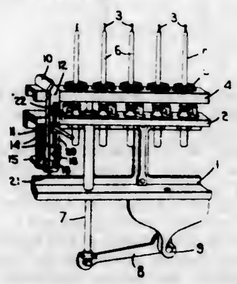
1. In a switchboard having a number of positions arranged in a designated order, the combination of means for indicating a call only at the first free position of said order with means for causing an indication of said call at a predetermined position of said number when all the positions are busy.

1,427,696. COTTER-PIN ATTACHMENT. ANTHONY W. PERMENTO, San Francisco, Calif. Filed May 7, 1919, Serial No. 295,441. Renewed July 6, 1921. Serial No. 482,873. 5 Claims. (Cl. 74—8.)



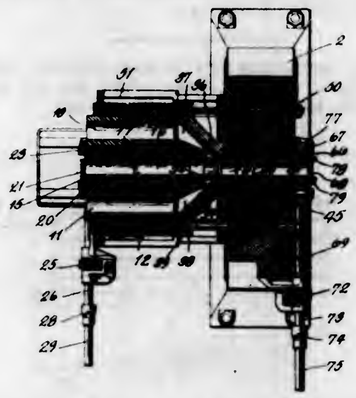
1. In combination with a bolt having a hole therethrough and a nut on the bolt, a projection borne by one of said parts and intersecting the plane of said hole, and a cotter pin having similar concave and convex parts the inner convex parts of one leg of the pin being receivable in the inner concave parts of the other leg of the pin upon compressing the legs, said projection being formed to project into one of the outer concave parts of one of the legs of the pin upon expansion of the legs.

1,427,697. BUNCH-BUILDING ATTACHMENT FOR SPINNING FRAMES. CLARENCE A. PIERCE, Lowell, Mass. Filed May 21, 1921. Serial No. 471,418. 4 Claims. (Cl. 242—43.3.)



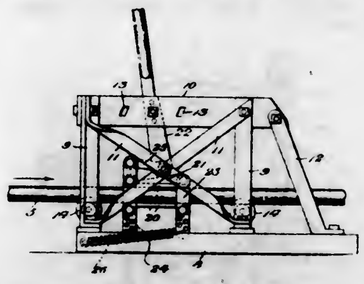
1. In a spinning frame, the combination with a spindle rail, of a ring rail movable toward and from the spindle rail, and a bunch-building attachment adapted to be temporarily applied to the spindle rail and ring rail, said attachment comprising two arms movable toward and from each other and between which the spindle rail and the ring rail are received, and a spring device acting on said arms and holding them yieldingly in engagement with said rails, said arms having a limited separating movement.

1,427,698. LEAD-CABLE-COVERING PRESS. ROUVIME POLIAKOFF, New York, N. Y. Filed Feb. 1, 1921. Serial No. 441,686. 27 Claims. (Cl. 207—4.)



1. An improved lead cable covering press comprising a passage for the cable extending in a substantially horizontal direction and having a lead space about one portion thereof in communication with the passage, a plurality of cylinders in communication with the space at substantially opposite points, pistons moving in said cylinders, means to supply lead in a molten state to said cylinders, and a common means for simultaneously moving said pistons, substantially as described.

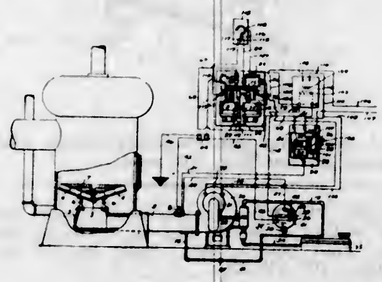
1,427,699. GAS-PIPE-MANIPULATING APPARATUS. WILLIAM RICHTER, Leavenworth, Kans. Filed June 21, 1921. Serial No. 479,297. 1 Claim. (Cl. 254—29.)



An apparatus for pushing and pulling pipes, comprising a main frame having base bars, uprights, upper spaced portions with transverse apertures and braces, and also comprising extensions on the base bars and braces between said extensions and the upper portion of the frame at one end of said portion, anti-friction rollers mounted in the lower portion of the frame and arranged in spaced relation, and a lever fulcrumed on the upper portion of the frame and equipped at its lower portion with means constructed and arranged to grip

a pipe on movement of the lever in one direction and to release the pipe on movement of the lever in the opposite direction; the said means comprising jaws or plates, bars connected thereto, a connection between one pair of bars and the lever, and a retractile spring between the other pair of bars and the frame.

1,427,700. OIL-BURNING HEATING SYSTEM. LEWIS L. SCOTT, St. Louis, Mo. Filed Apr. 30, 1921. Serial No. 465,835. 19 Claims. (Cl. 158—28.)



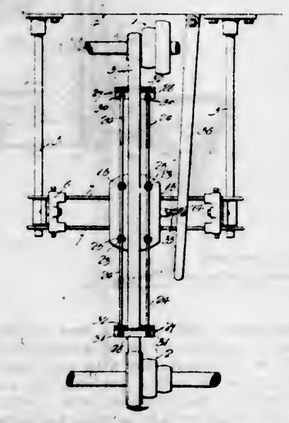
1. In an oil burning heating system, means for projecting air and sprayed liquid fuel into a zone of ignition, means for igniting the fuel, a thermostat located in proximity to the zone of combustion and in the path of one of the combustion supporting elements, and means associated with said thermostat and rendered operative thereby upon projection of said fuel without ignition to render inoperative said fuel projecting means.

1,427,701. FLUID ENGINE. CHARLES P. SALGER, Philadelphia, Pa. Filed Sept. 27, 1920. Serial No. 413,010. 5 Claims. (Cl. 121—129.)



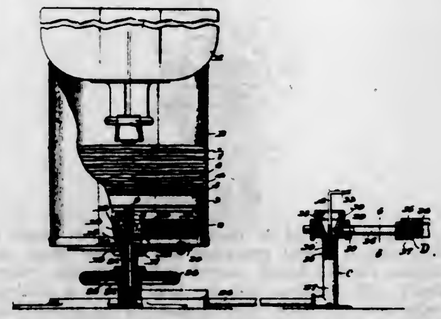
1. In a fluid pressure engine, a tubular casing having inner tubular members whose confronting ends are disposed away from each other and which divide the interior of the casing into two compartments, the casing and the tubular members having inlet and outlet openings which align, and the casing having a fluid intake passage communicating with its intake ports, a tubular valve arranged for slidable movement between the inner and outer members of the casing and having an inturned flange received between the tubular inner members of the casing, a plunger having oppositely disposed heads and carrying a piston rod which projects through a packing box in one of the compartments, and the heads of the plunger being in the path of engagement with the flange of the valve whereby the intake and outlet ports of the valve are successively brought into register with the intake and outlet ports of the respective compartments of the casing.

1,427,702. BELT SHIFTER. CLINTON E. SCHRYVER, Chicago, Ill. Filed Jan. 31, 1921. Serial No. 441,426. 8 Claims. (Cl. 64—4.)



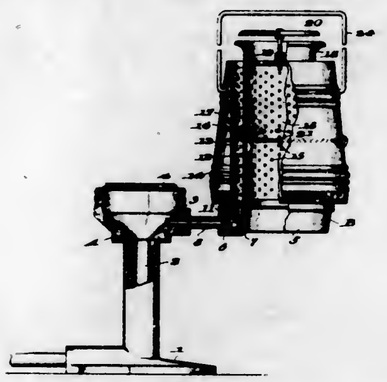
1. The combination with a pair of cooperating step pulleys and a belt passing therearound, of a stationary guide disposed between said pulleys, a block slidably mounted for longitudinal adjustment upon said guide, a hub member turnably mounted upon said block, belt keepers carried by said hub member and disposed adjacent said pulleys, said keepers receiving portions of said belt adjacent said pulleys, and yieldable means for normally maintaining said hub member in the position where said keepers are disposed opposite corresponding steps on said pulleys, said means permitting said hub member to yield out of its normal position and to automatically restore it to normal position when moved out of the same, and means for sliding said block along said guide.

1,427,703. HEATING SYSTEM FOR BROODERS, INCUBATORS, AND THE LIKE. HENRY M. SHEER, Quincy, Ill. Filed May 7, 1921. Serial No. 467,722. 9 Claims. (Cl. 158—37.)



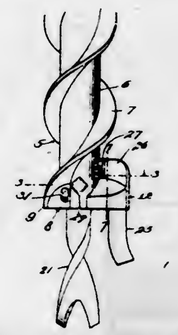
1. A heater comprising a burner adapted to burn a liquid fuel, a reservoir consisting of upper and lower compartments, a hollow nipple extending from the upper compartment to the lower compartment, a float arranged in the lower compartment, and a thermostatically controlled valve carried by said float adapted to close the opening in the nipple, when the oil has reached a predetermined level.

1,427,704. BURNER FOR OIL-HEATING SYSTEMS. HENRY M. SHEER, Quincy, Ill. Filed June 15, 1921. Serial No. 477,761. 10 Claims. (Cl. 158—86.)



6. A fuel burner comprising a base having a central opening and an annular oil groove surrounding said opening, a well in communication with said annular groove, spaced perforated cylinders surrounding said annular groove, a deflector-cap provided with openings adapted to receive the upper end of the inner perforated cylinder, a damper for said openings, a converging shell surrounding the outer perforated cylinder, means for securing the shell and cylinder together, means for securing the shell to the burner base, a hollow support for said burner base, and an oil feed extending horizontally from said hollow support communicating with the well adjacent said annular groove, whereby oil may be fed to the groove.

1,427,705. EXPANDING AUGER. FRANKLIN B. SPRY, Plymouth, Pa. Filed Dec. 30, 1921. Serial No. 525,866. 3 Claims. (Cl. 255—69.)



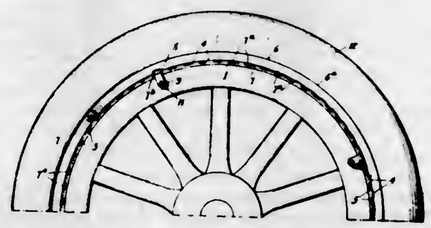
1. In an auger of the class specified, a stem having a head with a lateral projection and a spiral flange extending the full length thereof and terminating coincidently with the head end, the head having a straight socket and the lateral projection and head also having a lateral socket intersecting the straight socket at right angles and partially formed exteriorly of the stem in the said projection, the exterior part of the socket having a rear bracing wall of considerable vertical extent and a front shorter bracing wall, a main screw bit with a straight shank removably fitted in the straight socket, an expansible cutter having a right angular arm removably fitted in the lateral socket, the shank of the screw bit and the arm of the expansible cutter having interfitting corrugations for adjustment of the said cutter, and means for securing the bits against movement in the head.

1,427,706. TYPOGRAPHICAL SLUG. LOUIS C. TINSLEY, New York, N. Y. Original application filed May 16, 1921, Serial No. 470,126. Divided and this application filed Jan. 12, 1922. Serial No. 528,735. 4 Claims. (Cl. 101—396.)



1. A cast metal slug, comprising sections fragilely connected adjacent their type faces.

1,427,707. TIRE RIM. JOHN ANDREW VILLOCHI, Easton, Pa., assignor of one-half to Louis J. Villochi, Easton, Pa. Filed June 2, 1920. Serial No. 385,927. 1 Claim. (Cl. 152—21.)



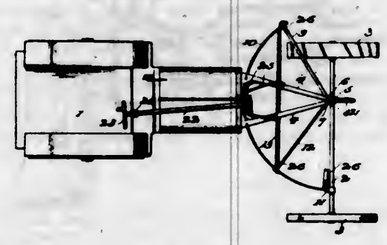
In a sectional rim, an annular rim member formed at one side with a tire retaining flange, a circumferential channel in the outer face of said rim member the external side wall of said channel having discontinuous portions forming spaced lugs, a locking ring formed with a tire retaining flange constituting its outer face and provided with spaced lugs on its inner face fitting between the spaced lugs on the rim member, said channel being so shaped as to accommodate said ring lugs behind said rim lugs within said channel when said ring is rotated, and locking means for said ring comprising spaced lugs having wedge shaped ends coacting against the inner circumferential surface of said ring.

1,427,708. BALLOON FABRIC AND THE LIKE. WILLIAM ARTHUR WILLIAMS, Edinburgh, Scotland, assignor to The North British Rubber Company, Limited, Edinburgh, Scotland. Filed Apr. 23, 1919. Serial No. 292,232. 1 Claim. (Cl. 154—46.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



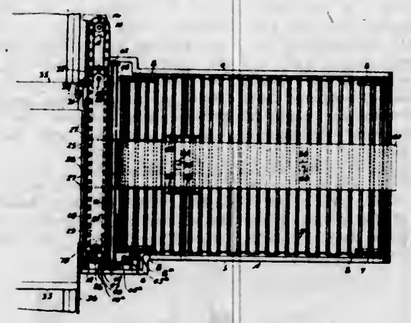
A balloon envelope fabric comprising a coloured outer textile ply, a coloured intermediate ply cemented thereto, an interior textile ply and a gas retaining membrane between the intermediate and interior plies.

1,427,709. TRACTOR COUPLING. ALBERT YORK, Garfield, Kans. Filed June 6, 1919, Serial No. 302,270. Renewed Jan. 21, 1922. Serial No. 531,006. 1 Claim. (Cl. 280—97.)



The combination of a tractor, a supporting guide on the under side of the tractor at the front end thereof, an axle in advance of and transversely to the tractor, a support secured to and extending forwardly from the front end of the tractor and having a pivotal connection with the axle, a rack connected rigidly with and disposed in rear of the axle concentric with said pivotal connection of the support and passing through the supporting guide on the tractor, a steering rod on the side of the tractor, a shaft mounted on the front end of the tractor, a pinion on said shaft meshing with said rack, a sprocket on said shaft, a sprocket on the steering rod, and a chain trained around said sprockets.

1,427,710. ATTACHMENT FOR MEAT-SLICING MACHINES. CARL T. ZOCHER, Oakland, Calif. Filed Apr. 13, 1921. Serial No. 461,096. 23 Claims. (Cl. 17—24.)



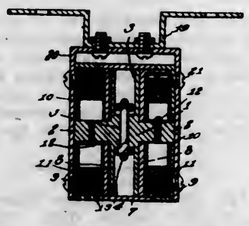
1. The combination with a cutting knife and a meat supporting table movable laterally with relation thereto, of a frame supported adjacent the movable side of the table, an endless chain, sprocket wheels in the frame supporting said chain, means for transmitting movement from the meat supporting table to the chain to cause the same to travel in unison, an endless belt disposed in vertical alignment with and located above the latter, means actuated by the chain for transmitting movement to the belt in one direction, means carried by the belt for receiving the meat when sliced, an endless receiving belt, means for removing and transferring the meat slices from the first named belt to the receiving belt, and means actuated by the meat sliced transferring means for imparting an intermittent movement to the receiving belt.

1,427,711. FOUNTAIN PEN. GEORGE BARTLE, SAMUEL GLICKMAN, and LEON JACOVITZ, New York, N. Y. Filed July 19, 1921. Serial No. 485,874. 6 Claims. (Cl. 120—47.)



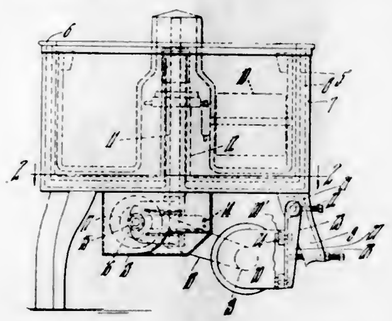
6. A reservoir pen comprising a body provided with inner and outer tubular extensions separated by a partition, a barrel closed at one end secured at its other end to said body, which surrounds the inner tubular extension forming therewith an ink reservoir, said tubular extension being in communication at its upper end with said ink reservoir, said partition being provided with a passage communicating with said inner tubular extension and with the atmosphere at a point remote from the nib of said pen and another passage communicating with said outer tubular extension and said ink reservoir, an apertured feed device in said outer tubular extension and a nib having a hole in registry in the aperture of said feed device secured between said feed device and the wall of said outer tubular extension.

1,427,712. CHALK HOLDER. LOUIS L. S. BASHORE, Marine City, Mich. Filed Nov. 15, 1921. Serial No. 515,351. 4 Claims. (Cl. 46—8.)



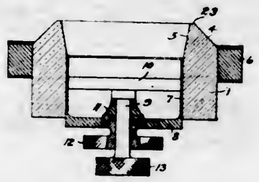
1. A device of the class described including a reel, a ring surrounding the reel, flanged disks seated in the ends of the ring, screw caps engaging the flanges on the disks, trunnions extending from the reel and journaled within the disks and caps, springs housed between the disks and caps and secured to the trunnions and flanged disks at their respective ends, a chalk holding device, and a flexible connection between said device and the reel, there being an opening within the ring in which said flexible connection is slidably mounted.

1,427,713. MOTOR SUPPORT. ALONZO LINTON BAUMAN, Springfield, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Filed Mar. 12, 1921. Serial No. 451,933. 4 Claims. (Cl. 64—52.)



1. In combination, a frame, a driven element mounted therein, a motor, a flexible driving connection between the motor and said element, pivotal supporting means mounted in said frame, arms loosely mounted on said means in spaced relation, and means for rigidly securing the motor to said arms, the latter being movable toward or away from one another on said pivotal supporting means to adapt them to various motors.

1,427,714. ILLUMINATING DEVICE FOR MICROSCOPES. WILLIAM A. BECK, Dayton, Ohio, assignor to St. Mary College, Society of Mary, Province of Cincinnati, Dayton, Ohio. Filed Nov. 15, 1919. Serial No. 338,320. 14 Claims. (Cl. 88—40.)

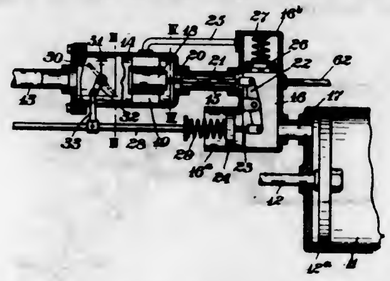


1. An illuminating device of the character described, comprising a light transmitting medium to be arranged alongside of the object under examination, and having a portion adapted to project above the plane of said object, said portion having its outer surface inclined to reflect the light toward the inner surface thereof, and having said inner surface inclined to refract the light toward said object.

1,427,715. AIR BRAKE. DELLNO BERGER, Madison Township, Franklin County, Ohio. Filed Nov. 13, 1920. Serial No. 423,957. 6 Claims. (Cl. 303—22.)

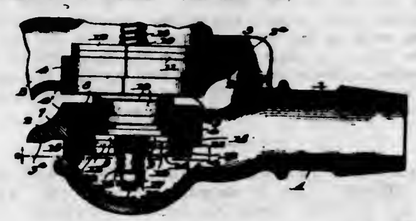
1. In an air brake means for predetermining and fixing the amount of braking pressure to be applied including in combination a chamber communicating with the brake cylinder, means in said chamber actuated by the pressure admitted, a valve for cutting off the pressure admitted actuated by said means, adjustable yielding means resisting the actuation of said pressure actuated means and means connected with said adjustable yielding means for retarding the admission of pressure to said chamber.

2. In an air brake for a car, a conductor for air pressure between a reservoir and the brake cylinder, and a conductor for the release of pressure from the brake cylinder provided with a retaining valve, a governor



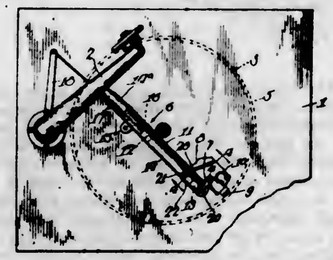
actuated by the motion of the car wheels for holding the first named conductor in open condition and the second named conductor closed.

1,427,716. TRAIN-PIPE COUPLING. CHARLES A. BLUHM, Michigan City, Ind. Filed Dec. 21, 1920. Serial No. 432,295. 5 Claims. (Cl. 251—84.)



1. A pipe coupling comprising a coupler member constructed to have interlocking connection with a duplicate member, a valve arranged in the passage of the coupler member comprising a stationary body member provided with ports at the lower end thereof, a rotatable member open at its upper end and provided with ports at the lower end, an actuating arm extending laterally of the rotatable member and outside of the coupling member, whereby the ports of the rotatable member and the stationary member may be brought into and out of registry.

1,427,717. AUTOMATIC STOP FOR TALKING MACHINES. JOSEF BRANDSTETTER, Rochester, Minn. Filed Mar. 23, 1918. Serial No. 224,175. 25 Claims. (Cl. 192—116.)

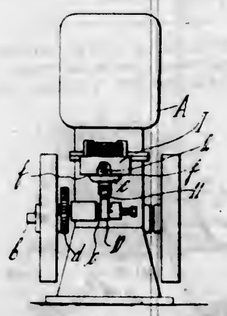


1. An automatic stop for talking machines or the like having, in combination with a record rotator, a reproducing element, and a brake arranged to be swung into operative engagement with the rotator, pressure-fluid-actuated controlling means operatively connected with said brake and said reproducing element for rendering said brake inoperative during inward motion of said reproducing element.

19. In a talking machine, in combination, a record-carrying element, a reproducing element, and means operated upon changes of fluid pressure and actuated by said reproducing element, adapted to permit rotation of said record-carrying element only during continuous inward motion of said reproducing element.

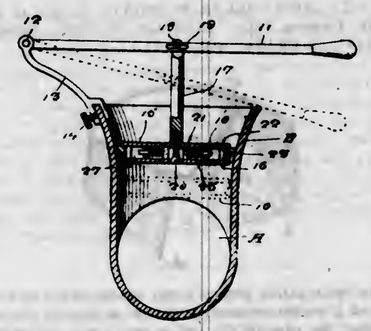
25. In combination with the record rotator and the reproducing element of a talking machine, an automatic non-set stop comprising means normally operative to stop the motion of said rotator, and fluid controlled means governed by the velocity of said reproducing element and independent of its position for controlling the operation of said stopping means.

1,427,718. ACTUATING MECHANISM FOR MAGNETOS. PHELPS BROWN, Springfield, Mass. Filed June 25, 1920. Serial No. 391,712. 12 Claims. (Cl. 123—149.)



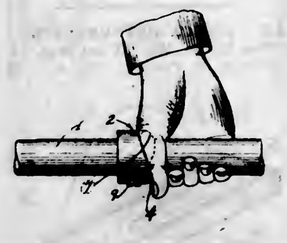
1. In a magneto, a movable armature, an actuating cam, and a cam follower therefor, a driving member with relation to which the cam is free to turn, a device on the cam and a device on said member to drive the cam from the latter by abutment, and means forcing said follower against the cam; the latter having a part which, when engaged by said follower, will, by the force of said means, move the cam ahead of its driving member and permit a rapid movement of the follower without disengagement from the cam.

1,427,719. ATTACHMENT FOR FOOD GRINDERS. HERMAN F. BRUCK, Galion, Ohio. Filed Apr. 7, 1922. Serial No. 550,392. 4 Claims. (Cl. 17—20.)



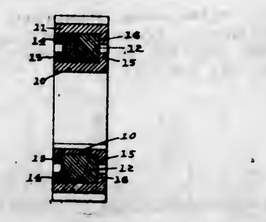
1. A feed attachment for food grinders comprising a clamp detachably engageable upon an edge of the feed portion of a grinder, a lever pivoted upon said clamp, a follower designed to pass within the feed portion of the grinder, and a connection between the follower and the lever, said follower including upper and lower supporting plates and a plurality of radially movable spring-pressed shoes slidable therebetween.

1,427,720. WHEELBARROW HANDLE. HERBERT M. CASWELL, Oatman, Ariz. Filed Nov. 9, 1921. Serial No. 513,959. 2 Claims. (Cl. 280—52.)



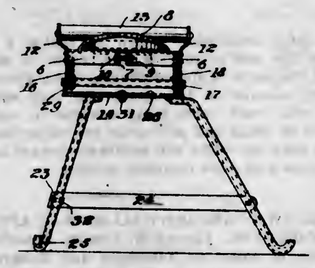
1. A wheelbarrow having abutment elements on the handles thereof, said abutment elements having concavities in the rear edges of said elements at the bases and upper portions of the same.

1,427,721. NOISELESS GEAR WHEEL. MARTIN O. CHRISTENSON, Minneapolis, Minn. Filed Apr. 17, 1922. Serial No. 554,258. 6 Claims. (Cl. 74—28.)



1. In a gear wheel, a hub, a rim spaced from the hub and provided with teeth, an intermediate annular element engaging the hub and rim, and an annular element pressed over the hub, in intimate engagement therewith, and engaging the intermediate element.

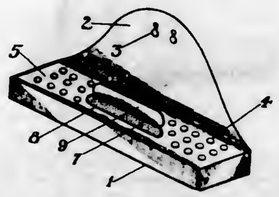
1,427,722. SWIVELING TEETER. ARTHUR B. CHRISTOPHER, St. Louis, Mo., assignor, by mesne assignments, to Metallic Industries, Inc., a Corporation of Delaware. Filed Feb. 14, 1920. Serial No. 358,563. 9 Claims. (Cl. 46—22.)



1. In a teeter or see-saw, the combination of a center plate, means for supporting the same in a substantially horizontal position, a substantially horizontal elongated

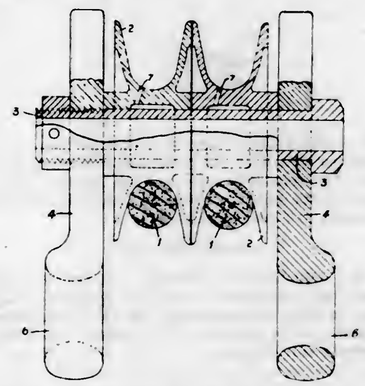
upper frame comprising two separated bars, a substantially vertically disposed strap secured to each side bar and extending downwardly therefrom; a bar forming a trunnion extending transversely of the upper frame, secured to said vertical straps, and ears projecting up from the center plate at opposite sides thereof and having sockets open on their upper side rotatably supporting the ends of said trunnion, said ears lying adjacent to the faces of said straps respectively and preventing lateral movement of the upper frame on the center plate.

1,427,723. INSECT EXTERMINATOR. PETER B. CLAUSEN, New Lisbon, Wis. Filed Sept. 14, 1921. Serial No. 500,652. 4 Claims. (Cl. 43—131.)



1. An insect exterminator including a receptacle, a removable cover fitted thereto, said cover having openings in the top, means therebeneath between which and the cover to receive an absorbent medium, and an absorbent medium held between the cover and said means with one edge extending downwardly into the receptacle.

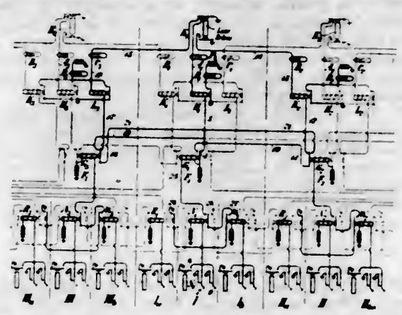
1,427,724. SLING FOR HANDLING CARGO AND OTHER GOODS. JAMES RICHARD CLAY, Blundellsands, England. Filed Feb. 18, 1921. Serial No. 446,013. 2 Claims. (Cl. 294—74.)



1. A sling, comprising a pair of cables, a plate secured to the end portion of each cable, a spindle for securing the plates in spaced relation and a grooved wheel rotatably mounted on the spindle for each end portion of the cable, each cable being adapted to encircle the article to be slung and pass over the respective grooved wheel so that the cables will be drawn toward each other as they pass under the rotatable member.

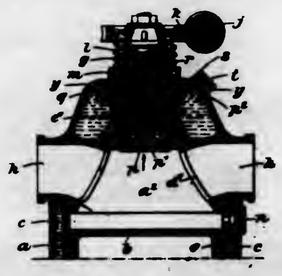
1,427,725. SWITCHBOARD CALL-SIGNAL APPARATUS AND CIRCUITS. LESTER W. COOPER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 15, 1919. Serial No. 282,854. 19 Claims. (Cl. 179—54.)

19. In a switchboard having a number of groups of positions arranged in a designated order, the combination of means for indicating a call only at the first group having a free position with means for causing an indication



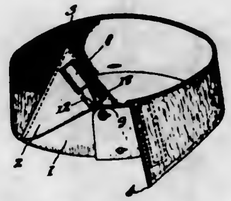
of said call at a predetermined group when all the positions of all the groups are busy.

1,427,726. VALVE GEAR WITH ROTARY VALVES. MARCEL ECHARD, Neuilly-sur-Seine, France. Filed June 28, 1920. Serial No. 392,437. 2 Claims. (Cl. 123—190.)



1. In a piston operated engine, the combination of a power cylinder having a non-cylindrical circular seat, a revoluble valve fitted against the said seat, a compensating piston rigidly connected with the said valve, the said piston having formed therein a small cylindrical recess, an auxiliary cylinder having the said compensating piston slidable therein, an end portion provided upon the said cylinder, an auxiliary piston slidable in the said recess of the compensating piston, and a liquid occupying the space between the end of the said auxiliary cylinder, the said auxiliary piston and the compensating piston.

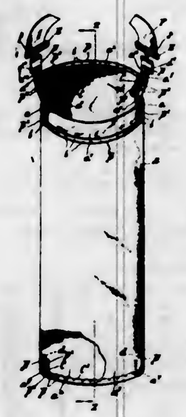
1,427,727. SOFT-COLLAR SUPPORT. VICTOR H. FAIRLESS, Trenton, Tenn. Filed Apr. 23, 1921. Serial No. 463,745. 2 Claims. (Cl. 2—71.)



2. In combination with a collar having inner and outer folds, of a pocket secured to the inner face of the outer fold near the edge of the collar and being closed at its sides and bottom and open at its top portion, a retaining strap also secured to the inside face of the outer fold of the collar in spaced relation to said pocket, and a strip of celluloid folded upon itself and having the folded

end lying in and supported by said pocket and with the inner free end portion extending within said strap, the outer free end portion of the strip lying outside of the strap and adapted to slidingly receive a necktie, substantially as described.

1,427,728. COTTON AND PEA PICKER SACK. VICTOR H. FAIRLESS, Trenton, Tenn. Filed May 26, 1921. Serial No. 472,702. 2 Claims. (Cl. 150—2.)



1. In a harvester's equipment the combination with a four way sack comprising a body portion in the form of a tube provided at each end with a pair of oppositely disposed flaps, with a pair of oppositely disposed tabs provided between each pair of flaps, said flaps and tabs being provided with eyelets adapted to receive lacings of a shoulder strap, and fastening means for detachably connecting said tabs to said shoulder strap, substantially as and for the purposes described.

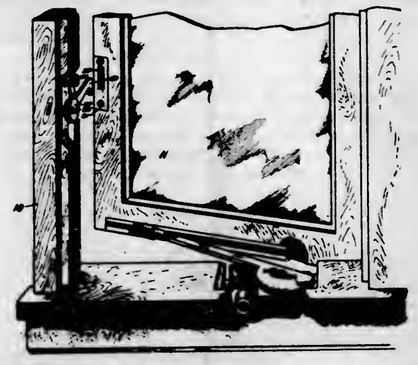
1,427,729. PENCIL. HOWARD L. FISCHER, St. Paul, Minn. Filed May 13, 1921. Serial No. 469,295. 12 Claims. (Cl. 120—18.)



11. A pencil comprising a casing, a threaded member means fixed to the ends of said threaded member adapted to space it in said casing to form a circular magazine thereabout, said spacing means on the outer end of said threaded member being adapted to detachably secure said threaded member in said casing, an operating member, having a lead carrier, adapted to extend through said threaded member, an engaging head formed on said operating member, an eraser recess formed on said engaging head, a cap adapted to removably engage said head to conceal the eraser, and a locking sleeve adapted to engage said head, secured to said rear spacing means on said threaded member.

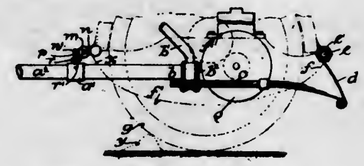
1,427,730. WINDOW FASTENER OR LATCH. FREDERICK FOURNIER, San Francisco, Calif. Filed Feb. 25, 1920. Serial No. 361,127. 2 Claims. (Cl. 292—240.)

1. A latch structure comprising a lock plate, a keeper plate disposed in a plane at right angles thereto, and having an opening therethrough, a circular lock cam eccentrically pivoted upon the lock plate and swinging in a plane parallel thereto, a lever member for rotating said cam, a lock finger having a circular opening through which the cam extends, said finger moving in a plane parallel to the face of the lock plate and adapted to project through the opening in the keeper plate, a downwardly extending hook formed at the outer end of said frame, a wedge face formed on the lower edge of the finger near its pivotal



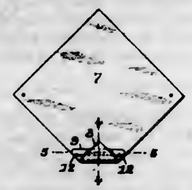
mounting, and a lug on the lock plate, cooperating with the eccentric movement of the lock cam, whereby rotation of said cam will cause the hooked end of the finger to move upwardly and forwardly through the opening in the keeper plate, thereafter lowering until its hooked end engages the keeper plate, and then drawing toward the lock plate.

1,427,731. REAR-DRIVE CHASSIS FOR MOTOR CYCLES. THOMAS GORDON, Perth, Western Australia, Australia. Filed Aug. 21, 1920. Serial No. 405,191. 3 Claims. (Cl. 180—33.)



1. In motor cycles of the motor wheel type, a rear fork having a leaf spring extending rearwardly from each side, a cross bar carried by the ends of said leaf springs, a motor wheel unit within said fork pivotally mounted at its rear end upon said cross bar, and a universal joint connecting the forward end of said motor wheel unit to said fork.

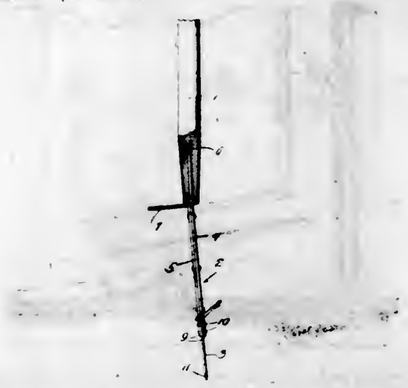
1,427,732. FLEXIBLE SHINGLE. ALBERT ABBE GRISWOLD, Providence, R. I., assignor of one-half to John Francis Chevalier, Brookline, Mass. Filed Dec. 27, 1920. Serial No. 433,382. 2 Claims. (Cl. 108—8.)



1. A flexible shingle having a bent under flap and a transverse fastening member secured wholly between the

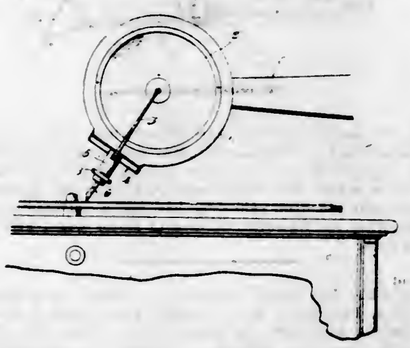
flap and the body of the shingle, for the purpose as described, the bent under flap holding the fastening member in place, between the flap and the body of the shingle.

1,427,733. HAY CUTTER. ANTONIO GROFF, Ridgway, Colo. Filed July 14, 1921. Serial No. 484,728. 1 Claim. (Cl. 30—8.)



A hay cutter comprising a handle having a centrally disposed socket formed in its lower end, a pair of metal bars secured together between their ends, the upper end of one bar being pointed and extending into the socket in said handle and the corresponding end of the other bar being bent out at right angles from said first bar to provide a foot-piece and a shoulder for the lower end of the handle to rest on, and a cutting blade secured between the lower ends of said bars.

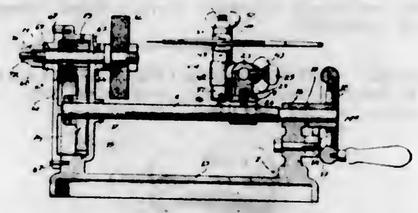
1,427,734. PHONOGRAPHIC APPARATUS. CHARLES C. GUERNSEY, East Barrington, N. H. Filed Apr. 5, 1919. Serial No. 287,719. 3 Claims. (Cl. 274—38.)



1. In sound reproduction apparatus, a sound-vibration transmitting element formed from bone which has been subjected to a preparatory treatment without depriving it of the natural fluids present in its canals.

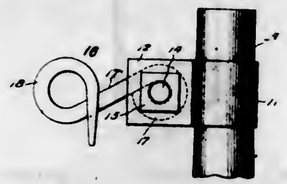
1,427,735. SCISSORS-GRINDING MACHINE. STEPHEN O. HEINDL, Chicago, Ill., assignor of one-half to Ernest Zeitz, Chicago, Ill. Filed Sept. 24, 1921. Serial No. 503,029. 12 Claims. (Cl. 51—92.)

1. In a grinding machine, the combination with a rotatable grinding element, of means for moving the work transversely of said element comprising a traveling carriage, a work clamp mounted on said carriage comprising an oscillatory stem, a pair of jaws held against rotation



on said stem, and spring means acting upon said stem to rotate it in a direction to carry the work toward the periphery of the grinding wheel.

1,427,736. CLIP. CLARENCE J. HENDRICKS, Fertile, Minn. Filed Sept. 13, 1920. Serial No. 409,872. 1 Claim. (Cl. 24—230.5.)



A hook formed from a single piece of material having one end rounded upon itself to provide an eye, having an inclined intermediate portion and the opposite end thereof being bent in a reverse direction to provide an open loop and terminating in an upwardly inclined extension projecting over and beyond the inclined intermediate portion thereof.

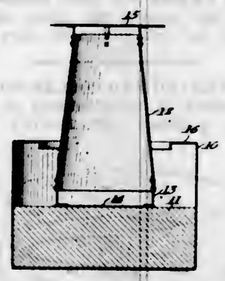
1,427,737. EXTENSION-RAIL CLAMP. WILLIAM F. HENKE, Norwood, Ohio, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 3, 1922. Serial No. 565,665. 5 Claims. (Cl. 238—10.)



1. In combination with a permanent track terminating with a pair of wedge ends, a pair of rails mating with the sides of said wedge ends, and a clamping member for each rail having opposing jaws adapted to engage with the flanges of said ends and rails respectively.
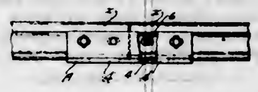
1,427,738. BURNER CONSTRUCTION. WILLIAM E. HOKE, St. Louis, Mo. Filed Jan. 10, 1922. Serial No. 528,175. 5 Claims. (Cl. 158—97.)

2. A burner comprising a fuel container open at its top, a tube of considerable length a portion of which extends above the container and another portion of which extends a considerable distance into the container, the arrangement being such that the tube portion in the container forms a separating wall between the flame and the air drawn in through the top causing the air to pass



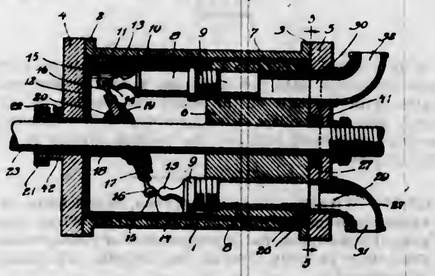
downwardly along the wall of the container and allowing it to pass toward the central region only relatively close to the surface of the fuel.

1,427,739. RAIL JOINT. FRANK E. HUSS and WALTER W. MOMBER, Belleville, Ill. Filed May 29, 1922. Serial No. 564,437. 1 Claim. (Cl. 238—197.)



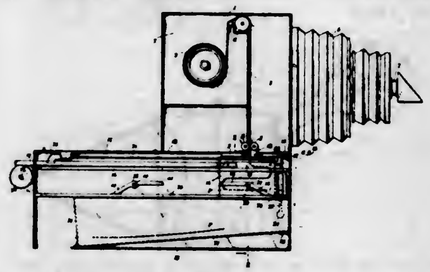
A rail joint, comprising a stationary member provided with a base plate having an integral rail engaging member at one side of the rails, a removable rail engaging member at the opposite side of the rails, portions on said rail engaging members bearing against the underside of the heads of the rails and so formed that they are adapted to be drawn inwardly towards the webs of the rails to compensate for wear on said portions and rail heads, depending devices on said removable rail engaging member projecting downwardly into holes in the base plate and terminating flush with the underside of the base plate, laterally-projecting portions on said devices having inclined top faces that bear against co-operating inclined faces on said base plate, and means for drawing said rail engaging members inwardly towards the webs of the rails so as to compensate for the wear on the rail head engaging portions of same and to cause the depending devices on the removable rail engaging member to exert upward pressure on the base plate in a direction tending to hold it tightly against the underside of the base flanges of the rails.

1,427,740. PUMP. ROBERT H. JOHNSON, Washington, D. C. Filed Nov. 1, 1921. Serial No. 512,145. 4 Claims. (Cl. 103—44.)



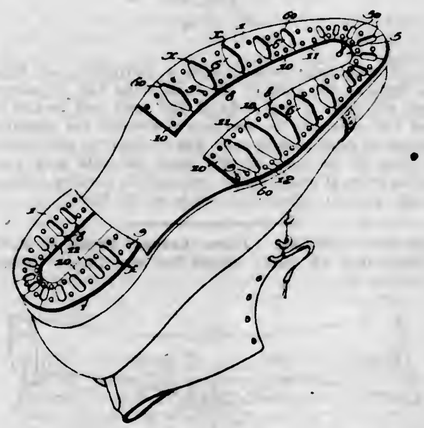
1. A pump comprising a casing, a drum rotatably mounted therein and having a number of concentric cylinders, pistons mounted to reciprocate in said cylinders, means to cause movement of the pistons upon rotation of the drum, an end wall for the casing abutting against the drum and having separated channels therein communicating alternately with the adjacent end of the cylinders, said end wall also having inlet and outlet ports in communication respectively with the separated channels, and a movable partition associated with the end wall and yieldably pressed against the drum, substantially as described.

1,427,741. PHOTOGRAPHIC DEVELOPING AND FIXING APPARATUS. FRANK E. JONES, Mission Hills, Kans., and CHARLES A. SCHWAB, Ferguson, Mo., assignors to Cameragraph Company, Kansas City, Mo., a Corporation of Delaware. Filed Nov. 4, 1921. Serial No. 512,954. 10 Claims. (Cl. 95—90.)



1. In a machine of the class described embodying means for feeding an exposed portion of a sensitized strip, the combination of a reciprocable developing tank movable into a position to receive the exposed portion of the strip from said feeding means and also movable to withdraw such exposed portion of the strip therefrom, means for severing the exposed and developed portion of the strip from the remainder thereof, and a relatively stationary fixing tank located below the reciprocable developing tank to receive the exposed and severed portion of the strip.

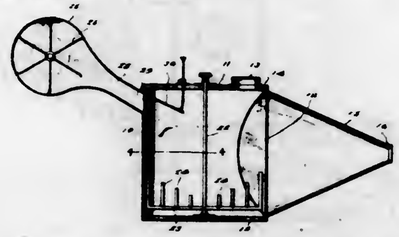
1,427,742. METAL SHOE SOLE AND HEEL PROTECTOR. JOHN H. KINDSVATER, Wichita, Kans. Filed Oct. 16, 1920. Serial No. 417,409. 3 Claims. (Cl. 36—73.)



1. A tread protector plate comprising opposite members for foot wear comprising a body shaped to the

contour of the shoe tread surface, the opposite members of which have a series of spaced and relatively transversely disposed openings and apertures adjacent the said relatively transversely disposed openings for receiving the nails for fastening the plate to the shoe sole and heel, the outer ends of the relatively transversely disposed openings being extended to near the rim edge of the plate whereby to produce portions that split across from the holes to the rim edge as the plate is worn on the shoe and thereby reduce the protector plate to a series of uniform individual protector sections adapted to flex with the shoe sole or heel to which the plate may be attached.

1,427,743. DEVICE FOR DUSTING TREES WITH DRY SULPHUR. CHARLES A. LANO, Selma, Calif., assignor of one-half to Newton D. Hursh, Oakland, Calif. Filed Aug. 23, 1921. Serial No. 494,668. 3 Claims. (Cl. 43—148.)



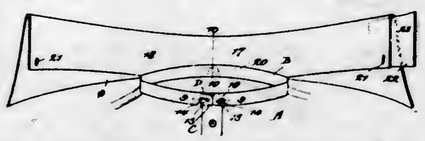
1. A device of the class described, comprising a hopper having an opening in the wall thereof, a screen mounted on the said opening, an agitator and means for mounting the latter in the lower portion of the hopper, means for introducing air under pressure to the casing, means for regulating the pressure, and means for controlling the direction in which the air current is discharged, said means last mentioned comprising a hinged element movable to a variable extent in the path of the air current.

1,427,744. SHIRT AND NECKBAND CONSTRUCTION. JAMES LAYDEN, Brooklyn, N. Y. Filed May 14, 1921. Serial No. 469,513. 6 Claims. (Cl. 2—41.)



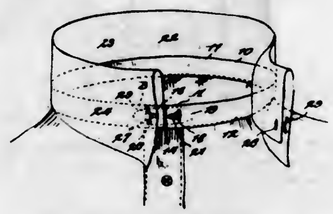
1. A neck band formed with a multiplicity of folds, the folds at the ends of the band being less in number than the folds in the body of the band and formed so that the ends may be overlapped whereby the combined number of folds in said ends will be equal to the number of folds in the body of said band, the said neck band having vertical slots therein arranged in parallel relation to the vertical edges of the ends of the band.

1,427,745. COLLAR. JAMES LAYDEN, Brooklyn, N. Y. Filed May 14, 1921. Serial No. 469,514. 6 Claims. (Cl. 2—69.)



1. A neck band provided respectively at its opposite ends with slots, a fastener detachable from the neck band and provided with tongues adapted to be passed through and exposed from said slots, and a collar having a flap between its ends and freely engageable with the neck band at the back of the latter, the said collar having slots at its ends engageable with said tongues.

1,427,746. NECKBAND AND COLLAR HOLDER. JAMES LAYDEN, Brooklyn, N. Y. Filed May 14, 1921. Serial No. 469,515. 2 Claims. (Cl. 24—73.)



1. A neck band closing means and collar holder comprising a plate having ends adapted for extension between the folds of a neck band adjacent to the ends of said band, and tongues carried by said plate and pressed outward therefrom, said tongues extending toward each other and arranged on the same horizontal line, as and for the purpose set forth.

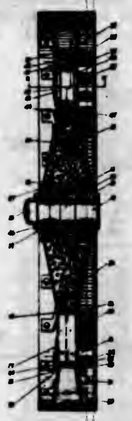
1,427,747. METAL WHEEL. JOSEPH LEDWINKA, Philadelphia, Pa., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 17, 1919. Serial No. 297,842. 10 Claims. (Cl. 301—6.)



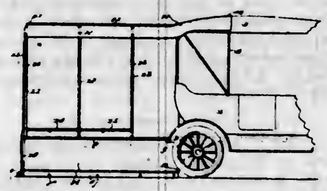
1. In a wheel structure, a hub, a rim, a pair of wheel discs connecting said hub and rim, a driving gear concentric with the axis of the wheel and carried by said wheel, said wheel discs being provided with registering openings positioned adjacent the toothed surface of the driving gear.

1,427,748. WHEEL. JOSEPH LEDWINKA, Philadelphia, Pa., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 17, 1919. Serial No. 297,843. 15 Claims. (Cl. 301—6.)

1. In a wheel structure, a hub, a rim, a pair of wheel discs spaced from each other throughout a portion of their extent, a filler portion of heavy material surrounding the hub, and bracing means separate from the wheel discs and positioned between the outer circumferential portions thereof and the inner surface of the tire.

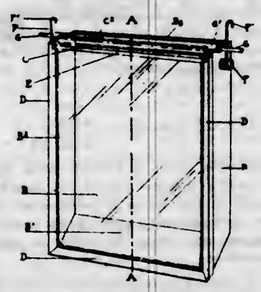


1,427,749. AUTOMOBILE ATTACHMENT. JOHN W. LEECH, Salina, Kans. Filed Aug. 17, 1921. Serial No. 492,072. 11 Claims. (Cl. 296—23.)



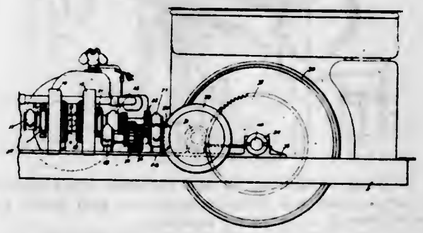
1. An attachment for motor vehicles comprising telescopic bars, means for securing one of the bars beneath the body of the machine, top supporting bows carried by and slidably engaged with the other bar, and a top cover connected with said bows and with the top of the vehicle.

1,427,750. PHOTOGRAPHIC APPARATUS. GEORGE A. LEWIS and ROBERT I. LEWIS, Lynn, Mass. Filed Jan. 13, 1921. Serial No. 437,054. 5 Claims. (Cl. 88—24.)



1. A device of the kind described, comprising a box constructed to contain a liquid and having a front glass plate, a secondary glass plate for pressing a print against said front glass plate, said box being formed with a bottom which is inclined downwardly towards the front of the box to automatically position the bottom edge of the secondary glass plate in close relation to the front glass plate, and a pressing means at the top of the box for pressing the top edge of the secondary glass close to the front glass.

1,427,751. ROAD ROLLER. ANDREW W. AITKEN, Springfield, Ohio, assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio, a Corporation of Ohio. Filed May 16, 1921. Serial No. 469,928. 5 Claims. (Cl. 94—50.)



1. In a machine of the character described, a driven roll, a motor having its shaft arranged parallel with the axis of said roll, transmission mechanism receiving motion from said motor shaft and rotatable upon axes arranged at right-angles to the axes of said motor shaft and roll comprising a bevelled pinion, a bevelled gear in mesh with said bevelled pinion, a spur pinion connected with said bevelled gear, the axes of said bevelled gear and spur pinion being parallel with the axis of said roll, and a spur gear connected with said roll and meshing with said spur pinion.

1,427,752. COLLAR. RICHARD BAER, New York, N. Y. Filed Sept. 24, 1919. Serial No. 326,037. 10 Claims. (Cl. 2—69.)



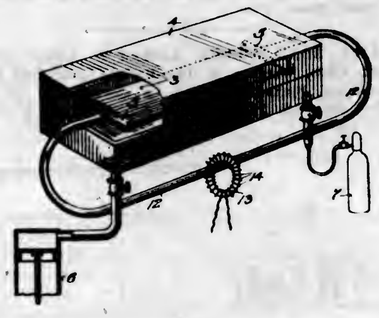
1. In combination with a collar of the kind described relatively rigid stays on the front portion of the collar adjacent to its free ends, and means directly engageable with said stays and independent of said front portion of the collar for connecting said stays to each other across the ends of the collar when in normal wearing position.

4. In combination with a collar of the kind described, relatively rigid stays on the front portion of the collar adjacent to its free ends, each free end of the collar having at its inner side an interrupted pocket adapted to removably receive a stay and with an intermediate part of the stay exposed, and a loop adapted to be secured about the said exposed intermediate portion of one stay and having a hook adapted to detachably engage the exposed portion of the other stay for detachably connecting the stays.

1,427,753. METHOD OF ANNEALING METAL. EDWARD G. BUDD and JOSEPH LEDWINKA, Philadelphia, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 6, 1916. Serial No. 118,715. 4 Claims. (Cl. 148—10.)

1. The method of annealing metal which consists in enclosing the part to be annealed and removing there-

from the oxidising effect of the surrounding medium, and including the same in series in the secondary circuit of

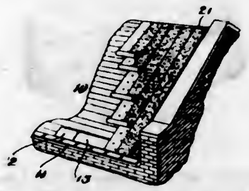


an electrical transformer to heat the same to an annealing temperature, and finally cooling such part before exposure thereof to oxidizing influences.

1,427,754. PERMEABLE SHEET MATERIAL AND PROCESS OF MAKING SAME. WILLIS A. GIBBONS, New York, and HERMAN W. RITTER, Brooklyn, N. Y., assignors to American Rubber Company, a Corporation of Massachusetts. Filed Mar. 31, 1921. Serial No. 457,502. 29 Claims. (Cl. 18—50.)

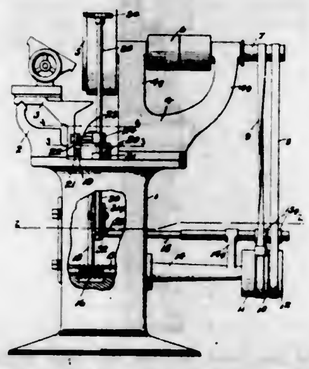
1. An artificial pliable and air-permeable sheet material of plastic-bound unwoven and unfelted fibers.

1,427,755. BUILT-UP ROOFING. WILLIAM A. HARRIS, Brookline, Mass., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 21, 1918. Serial No. 259,090. 1 Claim. (Cl. 108—7.)



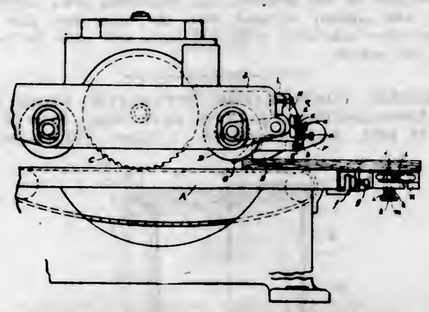
A method for forming a continuous roof covering, which consists in assembling upon a roof a plurality of separate longitudinally-extended sheets each having on its upper surface a longitudinal zone, less than one-half the width of the sheet, covered with asphalt, and a layer of crushed mineral adherent thereto and terminating with an inner shoulder longitudinal of the sheet, and a parallel unsurfaced zone extending from the edge of the sheet to said shoulder; securing that part of the sheet having the uncoated zone to the roof support by fasteners passing through an uncoated portion of the sheet overlaid thereby; applying a layer of plastic asphalt to the surface of each uncoated zone; lapping the top-surfaced portion of each sheet upon the plastic asphalt on the freshly coated portion of the preceding sheet, with the edge of the top-surfaced zone of each sheet abutting the inner shouldered edge of the top-surfaced zone of the preceding sheet; and pressing said overlapping sheets together and permitting the asphalt to set, whereby the whole roof covering constitutes a single sheet secured by concealed fasteners and having its exposed face covered and protected by the crushed mineral, substantially as described.

1,427,756. REVERSING CONTROL FOR GRINDING MACHINES. AUGUST CHARLES KRULL, Grand Rapids, Mich., assignor, by mesne assignments, to Machinery Company of America, Big Rapids, Mich., a Corporation of Michigan. Filed Dec. 5, 1921. Serial No. 519,893. 5 Claims. (Cl. 74—98.)



1. In a grinding machine, a hollow pedestal, a work table mounted for reciprocation, means for driving the work table including shiftable belts for changing the direction of operation of said driving means, a vertically positioned rod passing into the upper end of the pedestal, means connected with the rod and operable by the movement of the table for partially turning it back and forth at predetermined stages in the movement of the table, a shifting rod operatively connected with the belts, and connections between said vertical rod and shifting rod for operating the shifting rod on turning the vertical rod, substantially as described.

1,427,757. STOCK-POSITIONING MECHANISM. GEORGE S. MACDOWELL, New York, and HIRAM A. PERKINS, Rochester, N. Y., assignors to American Wood Working Machinery Company, Rochester, N. Y., a Corporation of Pennsylvania. Filed Mar. 3, 1921. Serial No. 449,570. 14 Claims. (Cl. 143—168.)



1. The combination with a woodworking machine, of a positioning device against which is engaged a side edge of the stock as the latter is positioned for feeding, and means for automatically moving the positioning device out of engagement with the stock as the latter is fed into the machine.

1,427,758. DEVICE FOR FEEDING FLUID, SEMI-FLUID, AND PLASTIC SUBSTANCES. FRANK MCLAUGHLIN, Toronto, Ontario, Canada. Filed Oct. 12, 1920. Serial No. 416,550. 7 Claims. (Cl. 221—79.)

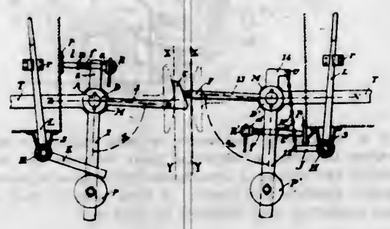
4. In a device of the class described, a stem like member, a turnable cylinder surrounding such member, a

piston having threaded engagement with the cylinder and adapted to bind on such stem-like member by the aforesaid turning movement, and resilient means compressed



by the longitudinal movement of the cylinder during such turning movement and binding action and adapted to carry the cylinder together with the piston longitudinally in the opposite direction to the stem.

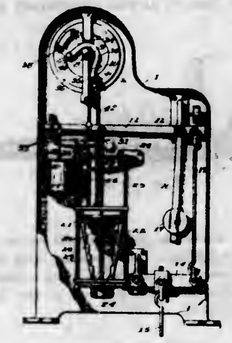
1,427,759. AUTOMATIC COUPLING DEVICE FOR RAILWAY CARS. CHARLES ANDRÉ MARIE RIBÉRA and FERNAND ALFRED SERRE, Nimes, France. Filed Aug. 8, 1921. Serial No. 489,616. 4 Claims. (Cl. 213—45.)



1. An automatic coupling device for railroad cars comprising in combination on each vehicle a hook and a ring respectively co-operating with the corresponding ring and hook of the other vehicle, a horizontal shaft supported by the said vehicle about which the said hook and ring are adapted to pivot independently from each other, a counterweight for each of said hook and ring and an arm connecting each of the latter with said counterweight, the coupling operation being effected under the action of the counterweights.

1,427,760. SCALE. HERMAN DE WITT RIDGE, Chicago, Ill. Filed Sept. 27, 1915. Serial No. 52,770. 19 Claims. (Cl. 265—62.)

1. In a scale, a dial having graduations marked thereon and a series of circumferentially-spaced openings therein arranged adjacent the graduations, an indicating hand co-operating with the dial to indicate weights, a disc rotatably mounted behind said dial and bearing series of numerals arranged to be displayed serially through said openings, load-offsetting means connected and arranged to actuate the indicating hand, including a scale beam, a series of counterpoise weights arranged to be serially connected to said scale beam, means for normally supporting said weights independently of the scale beam,



and means for moving said disc to increase the numerals shown through the openings in said dial as the counterpoise weights are connected to the scale beam.

1,427,761. MILLING MACHINE. WILLIAM SCHMID, Kalamazoo, Mich. Filed Apr. 10, 1919. Serial No. 288,919. 30 Claims. (Cl. 10—154.)



1. In a structure of the class described, the combination of a frame, a work spindle mounted thereon for axial movement, a master feed screw for said spindle, a return crank for said spindle, a return stop on said frame, a driven worm gear splined to said spindle, a driving worm, a support for said driving worm adjustable to engage and disengage said worms, a dog for holding said support in its work engaging position, a catch for holding said support in worm disengaging position, a control disk splined upon said spindle, a control member rotatably mounted at the side of said control disk, said disk having a pair of spaced pins thereon limiting the movement of said control member relative to said disk, said control member being adapted to release said dog at the end of the forward movement of the spindle disengaging said worms and on the return of the spindle to disengage said support retaining latch and coact with said return stop on said frame, a cutter adjustable to and from working position, means for actuating said cutter to working position, a return spring for said cutter, a cutter control dog for holding it in working position, a trip member for said cutter control dog rotatably mounted at the side of said control disk, said control disk being provided with an actuating pin for said trip member, and a catch on said cutter control dog for said driving worm support.

1,427,762. TOBACCO PIPE. FREDRICK W. SMITH, Minneapolis, Minn. Filed Oct. 16, 1919. Serial No. 330,974. 5 Claims. (Cl. 131—12.)

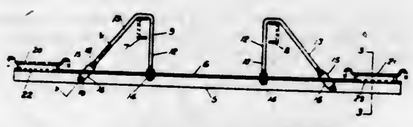
2. In a tobacco pipe, the combination with a bowl having a tubular shank, of a stem having a sleeve-like

extension telescoped within said shank and rotatable therein, said stem extension having a plug and peripheral ports both inward and outward thereof, said shank closely fitting said extension peripherally, except for a small internal channel at the top thereof with which the



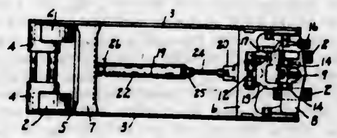
ports of said extension are adapted to be aligned when the pipe is in condition for smoking, and a filtering material in the inner end of said stem extension through which the smoke must be passed to the inner ports of said stem extension.

1,427,763. AUTOMOBILE BODY BRACE. FRANK M. STOLL, Denver, Colo. Filed Aug. 29, 1919. Serial No. 320,698. 2 Claims. (Cl. 280—163.)



1. A brace for vehicle bodies, comprising a bar of metal adapted to extend transversely under the vehicle, means tying said bar to the chassis frame, and the opposite extremities of said bar having integral parts cut out of same and bent upwardly at right angles adapted to engage with the under side of the running boards of the vehicle.

1,427,764. LIFTING TRUCK. WILLIAM STUEBING, Jr., and HERMAN A. VAN GUELPEN, Cincinnati, Ohio, assignors to The Stuebing Truck Company, a Corporation of Ohio. Filed Mar. 16, 1920. Serial No. 366,359. 2 Claims. (Cl. 188—96.)



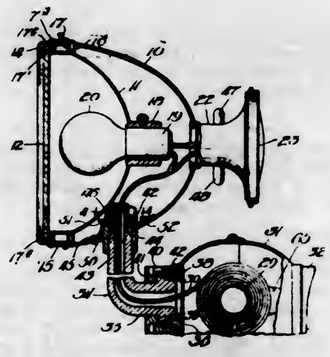
1. In a lifting truck check mechanism, a cylinder, a piston located therein, a piston rod extending into said cylinder and connected to the piston, said cylinder and piston rod suitably connected to allow the piston rod to operate forward and backward, a collar on said piston rod and a spring arranged around said piston rod and between the collar and the piston, a passage way extending through the piston rod and connected by a by-pass to the space in the cylinder ahead of the piston and a passage way through said piston, a valve located in rear of the piston, having a small by-pass leading to the passage way through the piston, said parts so arranged that when a load or great pressure is on the piston, the liquid in the cylinder will pass through the openings in the piston and valve slowly to form a retarding cushion and when the pressure is slight against the piston, the liquid will pass through the by-pass and opening in the piston rod, by reason of the spring holding the piston back of the by-pass in the piston rod.

1,427,765. METHOD OF TREATING ORES BY VOLATILIZATION. HARAI R. LAYNG, San Francisco, Calif.; Hattie F. Layng, administratrix of said Harai R. Layng, deceased. Filed Nov. 4, 1919. Serial No. 335,647. 9 Claims. (Cl. 75—17.)

1. The process of volatilising elements from an ore or mixture which consists of heating the ore or mixture so rapidly as to prevent the occurrence of harmful reactions for the purpose of volatilising the element or compounds thereof.

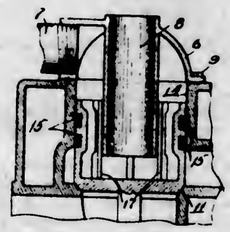
REISSUES.

15,437. SPOT LAMP. ERNST G. K. ANDERSON, Chicago, Ill., assignor, by mesne assignments, to Appleton Electric Co., Chicago, Ill., a Corporation of Illinois. Filed July 9, 1921. Serial No. 483,602. Original No. 1,309,714, dated July 15, 1919, Serial No. 129,763, filed Nov. 6, 1916. 8 Claims. (Cl. 240—7.)



3. A spot lamp comprising a lamp casing, a bracket member therefor, a universal joint between the bracket member and casing, a detachable connection between said bracket member and casing, a cord take-up reel and a lamp conductor cord windable on said reel.

15,438. POPPET VALVE. CHESTER T. BANOS, Chicago, Ill. Filed July 14, 1922. Serial No. 575,068. Original No. 1,414,495, dated May 2, 1922, Serial No. 364,088, filed Mar. 8, 1920. 5 Claims. (Cl. 123—177.)



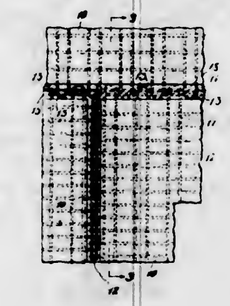
5. In an internal combustion engine, a valve chest, valves therein, a conduit for each of said valves, leading from outside the valve chest to the face of its valve opposite the seat thereof, and a conduit from said valve chest to the carbureter, whereby the valves are cooled by a stream of air and warm air is introduced into the carbureter.

15,439. HINGED-SHINGLE STRIP. GEORGE B. FERGUSON, New Bedford, Mass. Filed July 7, 1922. Serial No. 573,486. Original No. 1,410,903, dated Mar. 28, 1922, Serial No. 472,714, filed May 26, 1921. 7 Claims. (Cl. 108—7.)



1. A folding shingle strip composed of a long integral strip having spaced slots extending inwardly from one side edge thereof and spaced at their inner ends from the opposite side edge of the strip and a coating of asphalt and crushed slate applied to one side of the strip and terminating at points alined with the slots and between the inner ends of the latter and said opposite side edge of the strip whereby to provide uncoated hinging parts about which the strip may be folded to cause the shingles to be superimposed upon each other.

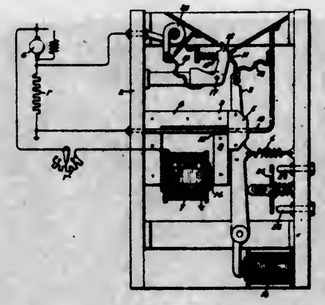
15,440. BUILDING CONSTRUCTION. FRED LICHTENBERG and MICHAEL M. MCCARTHY, Yonkers, N. Y. Filed Apr. 22, 1921. Serial No. 463,613. Original No. 1,348,018, dated July 27, 1920, Serial No. 330,161, filed Oct. 13, 1919. 6 Claims. (Cl. 72—40.)



6. A building unit comprising a slab formed of cement-like material, metallic reinforcing means embedded in the slab and projecting from its edges between the inner and outer sides thereof, and a sheet of backing material on one side of said slab and projecting from the edges thereof to form a backing for plastic material applied to the projecting reinforcing means.

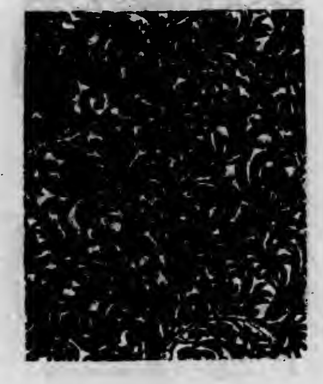
15,441. CIRCUIT INTERRUPTER. JOHN F. TRITLE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 11, 1921. Serial No. 483,955. Original No. 1,323,798, dated Dec. 2, 1919, Serial No. 214,805, filed Feb. 1, 1918. 24 Claims. (Cl. 200—94.)

18. An interrupter for electric circuits comprising a switch member biased to the open position, an electro-magnet for holding the same in closed position, means whereby upon an increase in the current in the controlled circuit above a predetermined value the holding effect of the flux of said magnet is decreased without materially effecting the density thereof to permit the switch member to interrupt the electric circuit in accordance with its bias, and means cooperating with the first mentioned means for varying the effect thereof responsively to the rate of increase of the said current, whereby the switch member is permitted to interrupt the electric circuit at the said predetermined value when the rate of increase of the said current is substantially normal and is permitted to interrupt the electric circuit at a substantially different value of current when the rate of increase of the said current is abnormal.



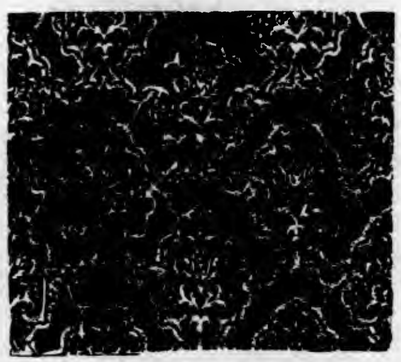
DESIGNS.

61,405. WALL COVERING IN RAISED RELIEF. HARRY T. ABOLIN, Wood Ridge, N. J., assignor to Lincrusta-Walton Company, Hackensack, N. J., a Corporation of New Jersey. Filed May 17, 1922. Serial No. 2,286. Term of patent 14 years.



The ornamental design for a wall covering in raised relief as shown.

61,406. WALL COVERING IN RAISED RELIEF. HARRY T. ABOLIN, Wood Ridge, N. J., assignor to Lincrusta-Walton Company, Hackensack, N. J., a Corporation of New Jersey. Filed May 17, 1922. Serial No. 2,287. Term of patent 14 years.



The ornamental design for a wall covering in raised relief as shown.

61,407. WALL COVERING IN RAISED RELIEF. HARRY T. ABOLIN, Wood Ridge, N. J., assignor to Lincrusta-Walton Company, Hackensack, N. J., a Corporation of New Jersey. Filed May 17, 1922. Serial No. 2,288. Term of patent 14 years.



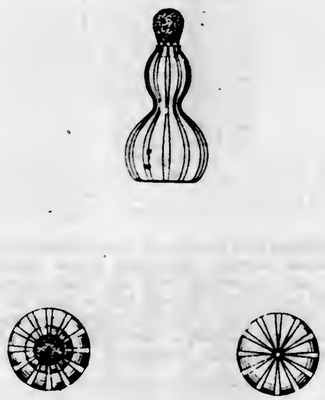
The ornamental design for a wall covering in raised relief as shown.

61,408. LIGHTING FIXTURE. GEORGE CAWTHRON, Redwood, Calif. Filed Jan. 24, 1922. Serial No. 342. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

61,409. BOTTLE. RENÉ EYBEN, New York, N. Y. Filed June 22, 1921. Serial No. 479,657. Term of patent 3½ years.



The ornamental design for a bottle substantially as shown and described.

61,410. SPOON. EMIL FUCHS, New York, N. Y., assignor to Cartier, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 3, 1922. Serial No. 903. Term of patent 3½ years.



The ornamental design for a spoon, as shown.

61,411. LAMP SHADE OR SIMILAR ARTICLE. WILLIAM H. FULPER, Flemington, N. J. Filed Mar. 9, 1921. Serial No. 450,967. Term of patent 14 years.



The ornamental design for a lamp shade or similar article, substantially as shown.

61,412. FLOOR LAMP. JOSEPH GERCHGALL, Chicago, Ill. Filed Jan. 6, 1922. Serial No. 69. Term of patent 14 years.



The ornamental design for a floor lamp as shown.

61,413. PAPER OR SIMILAR ARTICLE. FERNAND JAVAL, Paris, France. Filed Apr. 7, 1922. Serial No. 1,616. Term of patent 14 years.



The ornamental design for paper or similar article, substantially as shown.

61,414. THERMOMETER. ANTHONY KROGH, Springfield, Ohio, assignor to The Chaney Manufacturing Company, Springfield, Ohio, a Corporation of Ohio. Filed Jan. 10, 1922. Serial No. 153. Term of patent 14 years.



The ornamental design for a thermometer as shown.

61,415. JUG. JOSEPH L. KLEIN, St. Louis, Mo. Filed Oct. 17, 1921. Serial No. 508,380. Term of patent 14 years.



The ornamental design for a jug, as shown.

61,416. COMBINATION ASH TRAY AND MATCH RECEPTACLE. STEPHEN KRONBURGER, Jersey City, N. J., assignor to Cohan-Epner Co. Inc., New York, N. Y. Filed Nov. 14, 1921. Serial No. 515,133. Term of patent 7 years.



The ornamental design for the combination ash tray and match receptacle as shown.

61,417. LIGHTING-FIXTURE ARM. HERMAN A. SAFION and MORIS GERINGER, New York, N. Y. Filed Jan. 27, 1922. Serial No. 400. Term of patent 3½ years.



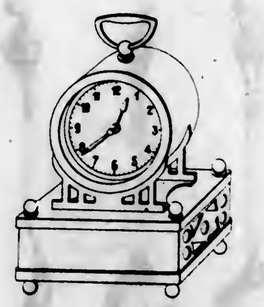
The ornamental design for a lighting fixture arm, as shown.

61,418. LAMP. CLAUDE LYNDON, Montreal, Quebec, Canada, assignor to Gertrude Agnes Lyndon. Filed Nov. 28, 1921. Serial No. 518,472. Term of patent 3½ years.



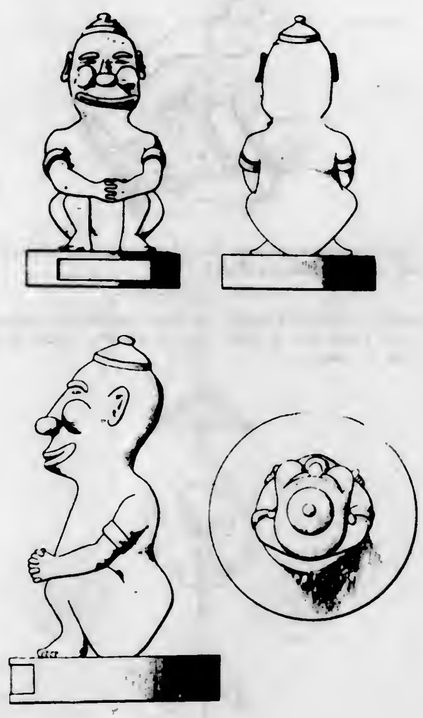
The ornamental design for a lamp as shown.

61,419. COMBINATION CLOCK AND MUSIC BOX. WILHELM MAIER, Villingen, Germany. Filed Apr. 5, 1922. Serial No. 1,536. Term of patent 14 years.



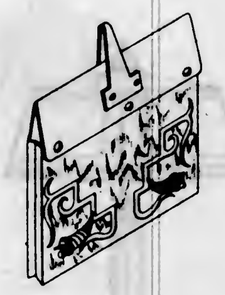
The ornamental design for a combination clock frame and music box as shown and described.

61,420. STATUETTE. DAVID TWYMAN MONEYPENNY, Guthrie, Ky. Filed Feb. 21, 1922. Serial No. 805. Term of patent 7 years.



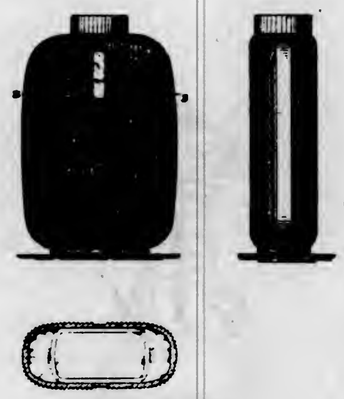
The ornamental design for a statuette, as shown.

61,421. MONEY BAG. WALENTY M. PRETBYLA, Pulawski, Mich. Filed Dec. 3, 1921. Serial No. 519,771. Term of patent 3½ years.



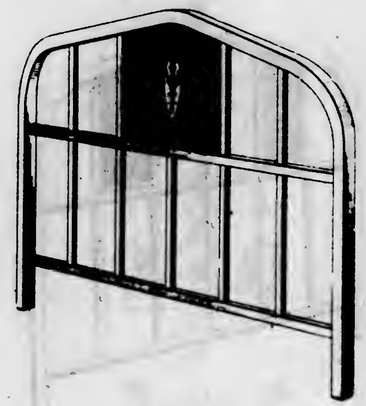
The ornamental design for a money bag, substantially as shown.

61,422. BOTTLE. GEORGES REHNS, Paris, France. Filed Sept. 22, 1921. Serial No. 502,560. Term of patent 14 years.



The ornamental design for a bottle substantially as shown.

61,423. BEDSTEAD END FRAME. ERNEST L. ROSENBURGH, Rome, N. Y., assignor to Rome Metallic Bedstead Company, Rome, N. Y., a Corporation of New York. Filed Jan. 7, 1922. Serial No. 90. Term of patent 7 years.



The ornamental design for a bedstead-end frame as shown.

61,424. BEDSTEAD END FRAME. ERNEST L. ROSENBURGH, Rome, N. Y., assignor to Rome Metallic Bedstead Company, Rome, N. Y., a Corporation of New York. Filed Jan. 7, 1922. Serial No. 91. Term of patent 7 years.



The ornamental design for a bedstead-end frame as shown.

61,425. BEDSTEAD END FRAME. ERNEST L. ROSENBURGH, Rome, N. Y., assignor to Rome Metallic Bedstead Company, Rome, N. Y., a Corporation of New York. Filed Jan. 7, 1922. Serial No. 93. Term of patent 7 years.



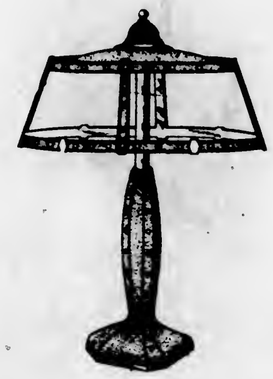
The ornamental design for a bedstead end-frame as shown.

61,426. LIGHTING-FIXTURE ARM. HERMAN A. SAFION and MORIS GERINGER, New York, N. Y. Filed Jan. 27, 1922. Serial No. 399. Term of patent 3½ years.



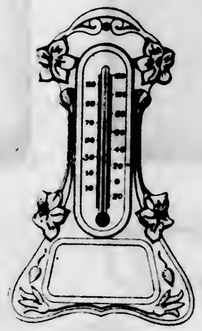
The ornamental design for a lighting fixture arm, as shown.

61,427. ELECTRIC PORTABLE LIGHTING FIXTURE. ADOLF STEFFEN, Pittsburgh, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Oct. 17, 1921. Serial No. 508,387. Term of patent 3½ years.



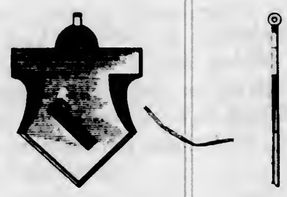
The ornamental design for an electric portable lighting fixture, as shown.

61,428. THERMOMETER. JAMES E. WARD, Springfield, Ohio, assignor to The Chaney Manufacturing Company, Springfield, Ohio, a Corporation of Ohio. Filed Jan. 10, 1922. Serial No. 155. Term of patent 14 years.



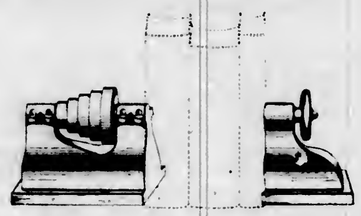
The ornamental design for a thermometer as shown.

61,429. CHARM, EMBLEM, BADGE, BUTTON, OR ARTICLE OF SIMILAR NATURE. CHARLES P. WOODBURY, Kansas City, Mo. Filed May 15, 1922. Serial No. 2,257. Term of patent 14 years.



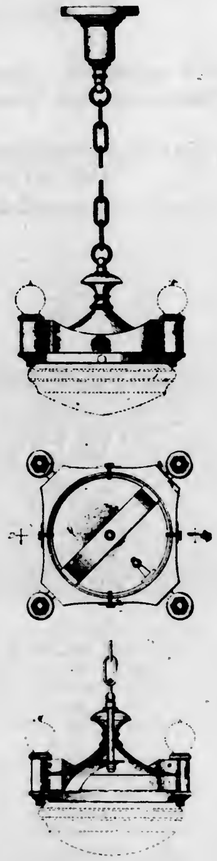
The ornamental design for a charm, emblem, badge, button, or article of similar nature, as shown.

61,430. PAIR OF BOOK ENDS. JOSEPH W. WUNSCH, Brooklyn, N. Y. Filed Nov. 19, 1920. Serial No. 425,272. Term of patent 3½ years.



The ornamental design for a pair of book ends, as shown.

61,431. LIGHTING FIXTURE. FRANK YOKEL, Hartford, Conn., assignor to Dallas Brass & Copper Co., Chicago, Ill., a Corporation of Illinois. Filed May 13, 1921. Serial No. 469,391. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 29, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 103,214. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE CHRISTIAN MOERLEIN BREWING CO., Cincinnati, Ohio. Filed Apr. 23, 1917.

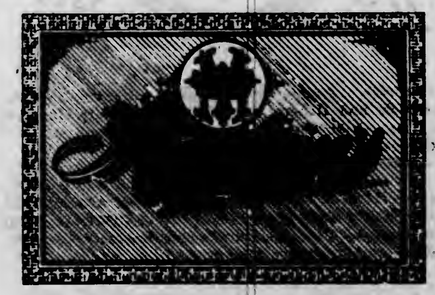


Trade-mark consists of a rectangular label having a yellow field and a marginal border of gold bearing the name "Moerlein's," ending with a paraph, the name being surmounted by a circular border, containing the letter "M" surrounded by a crown.

Particular description of goods.—Beer.

Claims use since about Dec. 31, 1900.

Ser. No. 103,216. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE CHRISTIAN MOERLEIN BREWING CO., Cincinnati, Ohio. Filed Apr. 23, 1917.



Trade-mark consists of a rectangular label having a light green field and a marginal border of gold, the word "Moerlein's" appearing upon the field printed in blue script letters, and ending with a paraph, the name "Moerlein's" being surmounted by a gold circular border containing the letter "M" in red, the letter "M" being surrounded by a crown printed partially in gold.

Particular description of goods.—Beer.

Claims use since about April, 1890.

Ser. No. 103,222. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE CHRISTIAN MOERLEIN BREWING CO., Cincinnati, Ohio. Filed Apr. 23, 1917.

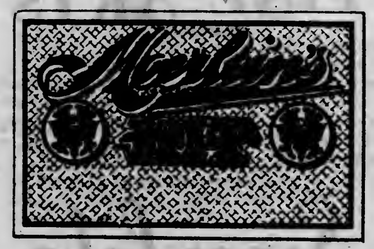


Trade-mark being a rectangular label with a gold marginal border bearing the name "Moerlein's" in script, with a paraph below it, the word "Moerlein's" being preceded by a circular white field bearing the letter "M" in red surrounded by a gold crown, the words and symbols being produced upon a green field within the gold border in white.

Particular description of goods.—Beer.

Claims use since about Aug. 23, 1916.

Ser. No. 103,223. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE CHRISTIAN MOERLEIN BREWING CO., Cincinnati, Ohio. Filed Apr. 23, 1917.

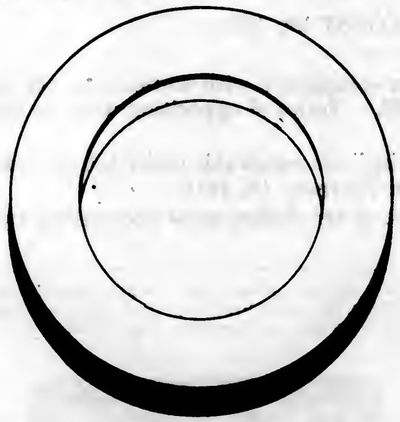


Trade-mark consists of a rectangular label having a dark-orange marginal border and light orange field bearing the words "Moerlein's" in script, ending with a paraph, and printed in blue, followed by the word "Hit" printed in large dark-orange-color type, there being on each side of the word "Hit" a blue circle containing the letter "M" in dark orange surrounded by a blue crown.

Particular description of goods.—Beer.

Claims use since July 27, 1916.

Ser. No. 122,500. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE RUSSELL MANUFACTURING CO., Middletown, Conn. Filed Sept. 9, 1919.



The representation of goods apart from mark shown is disclaimed.

Particular description of goods.—Brake Lining and Clutch Facing.

Claims use since Aug. 29, 1919.

Ser. No. 123,881. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MARK DOTTENHEIM, doing business as Victor Company, New York, N. Y. Filed Oct. 17, 1919.

Victor

Particular description of goods.—Single Pearls and Strings of Pearls.

Claims use since about July 1, 1919.

Ser. No. 130,440. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed Mar. 31, 1920.

FINE ARTS

Trade-mark "Fine Arts."

Particular description of goods.—Candy.

Claims use since September, 1906.

Ser. No. 131,669. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. H. ROGERS, INC., New York, N. Y. Filed Apr. 26, 1920.

Simlite

Particular description of goods.—Drapery Fabrics and Upholstery Fabrics in the Piece of Either Silk, Wool, Cotton, Artificial Silk, Mohair, Jute, Flax, or Mixtures of These Materials; Tapestries, Cretonnes, Linen Stripes, Denims, Velours, Velvets, Plushes, and Damasks in the Piece, the Tapestries and Cretonnes Being of Either Silk, Wool, Cotton, Artificial Silk, Mohair, Jute, Flax, or Mixtures of These Materials; Tapestry Panels, Couch Covers, and Rugs, the Tapestry Panels Being of Either Silk, Wool, Cotton, or Mixtures of These Materials, the Couch Covers Being of Either Silk, Cotton, Wool, and Jute, or Mixtures of These Materials, the Rugs Being of Either Silk or Cotton.

Claims use since June, 1916.

Ser. No. 133,103. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) PRECIOUS METALS TEMPERING CO., New York, N. Y. Filed May 29, 1920.

TEMP-ORO

Particular description of goods.—Tempered Gold Alloy.

Claims use since Jan. 1, 1920.

Ser. No. 134,836. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MECHANICAL APPLIANCE COMPANY, Milwaukee, Wis. Filed July 12, 1920.



Particular description of goods.—Electric Motors, Dynamos, and Generators, Rotary Convertors, Inverted Rotaries, Alternators, and Frequency Changers.

Claims use since May 1, 1915.

Ser. No. 135,732. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALLAN C. RYAN, doing business as The America Crucible Products Company, Elyria, Ohio. Filed Aug. 2, 1920.

AHELIUM

Particular description of goods.—Aluminum Alloys.

Claims use since Apr. 2, 1919.

Ser. No. 137,188. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FREDERICK J. STEARNS, Manchester, N. H. Filed Sept. 14, 1920.

POLLY'S
BIG
3
STOVE OIL

No claim is made to the words "Stove Oil" apart from the mark shown in the drawing.

Particular description of goods.—Oil Preparation for Cleansing and Polishing Metal.

Claims use since Aug. 20, 1920.

Ser. No. 139,247. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DR. BELL MEDICINE COMPANY, Louisville, Ky., and New York, N. Y. Filed Nov. 6, 1920.

Dr. BELL'S



Dr E Bell MD

No claim to the words "Trade-Mark," "New York," "St. Louis," or "Reg. U. S. Pat. Off.," apart from the mark shown in the drawing.

Particular description of goods.—Medicinal Preparations for the Treatment of Coughs, Colds, Croup, Whooping Cough, Bronchitis, Asthma, Grippe, Soreness of the Throat, Chest and Lungs; Cuts, Burns, Wounds, Sprains, Rheumatism, Neuralgia, Toothache, Cramps, Colic, Diarrhea, Scalds, Chills and Skin Affections; for a Compound in Liquid Form Most Useful in the Treatment of Coughs, Colds, Bronchial Troubles; for a Laxative in Pill Form for the Treatment of Constipation, Biliousness, and Liver Disorders; for a Tonic in Tablet Form for the Blood, Anemia, Nervous Breakdown, Brain Fag, and General Debility; for an Antiseptic Ointment for Burns, Scalds, Bruises, Chapped Hands and Lips, Eczema, Salt Rheum, Tetter, Cuts, Fever Sores, Bedsores, and Sunburn.

Claims use since Dec. 1, 1919.

Ser. No. 140,169. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. J. DONALDSON, doing business as Great Western Tea Co., San Francisco, Calif. Filed Nov. 26, 1920.

"WESTECO"



BRAND

The word "Brand" is disclaimed.

Particular description of goods.—Tea, Coffee, Flavoring Extracts for Food, Cocoa, Chocolate, Spices, Macaroni, Spaghetti, Noodles, Corn Starch, Tapioca, Rice, and Salad Dressing.

Claims use since Feb. 1, 1911.

Ser. No. 141,171. (CLASS 2. RECEPTACLES.) THE HYDRAULIC STEEL COMPANY, Cleveland, Ohio. Filed Dec. 16, 1920.



Particular description of goods.—Barrels.

Claims use since about Dec. 5, 1914.

Ser. No. 141,243. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SCHONBERG MANUFACTURING COMPANY, Chicago, Ill. Filed Dec. 17, 1920.



Particular description of goods.—Side Windshields for Automobiles.

Claims use since May 27, 1920.

Ser. No. 143,647. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE JUSTH MANUFACTURING COMPANY, Cleveland, Ohio. Filed Feb. 16, 1921.

JUSCO

Particular description of goods.—Bed Davenports, House and Office Chairs, Rockers, and Couches.
Claims use since Nov. 12, 1920.

Ser. No. 143,996. (CLASS 39. CLOTHING.) THE PIETZUCH SURGICAL WONDER ARCH GUIDE HEEL COMPANY, Cincinnati, Ohio. Filed Feb. 24, 1921.

ARCH GUIDE

Particular description of goods.—Heels Made of Rubber.
Claims use since Jan. 25, 1917.

Ser. No. 145,224. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Mar. 25, 1921.

Butterfly

Particular description of goods.—Silk Piece Goods.
Claims use since July, 1920.

Ser. No. 145,696. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) NATHAN LEVIN, Pittsburgh, Pa. Filed Apr. 4, 1921.

EVERDRY

Particular description of goods.—Waterproof Cloth.
Claims use since Oct. 11, 1920.

Ser. No. 145,727. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNITED STATES OZONE COMPANY, Scottdale, Pa. Filed Apr. 4, 1921.



No claim is made to the word "Ozone" apart from the mark shown in drawing.
Particular description of goods.—Water-Purifying Machinery and Parts Thereof.
Claims use since about Oct. 11, 1920.

Ser. No. 145,974. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DE WANE B. SMITH, doing business as D. B. Smith & Company, Utica, N. Y. Filed Apr. 9, 1921.

LIGHTNING

Particular description of goods.—Sprayers, Pumps, Force Pumps, Atomizers for Liquid and Powder Insecticides, and Powder Dusters for Insecticides.
Claims use since Jan. 1, 1892.

Ser. No. 146,088. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, by Nicolas Alfred Fernand George, administrator, Montrouge, near Paris, France. Filed Apr. 12, 1921.



Particular description of goods.—Furniture and Floor Polishes and Waxes, Preservatives in the Nature of Paint and Wax, for Furniture, Parquet Flooring, Wainscoting, Marble, Varnished or Painted Surfaces and Paintings; Coloring Ingredients and Waxes for Encaustic Painting.
Claims use since May, 1884.

Ser. No. 146,745. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SIMPLEX ALARM COMPANY, Milwaukee, Wis. Filed Apr. 25, 1921.

Simplex

Particular description of goods.—Electrical Alarm Systems as a Whole.
Claims use since Feb. 15, 1921.

Ser. No. 146,982. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STANDARD STEEL WORKS COMPANY, Philadelphia, Pa. Filed Apr. 29, 1921.

S S

Particular description of goods.—Springs for Locomotives, Locomotive Tenders, and Cars.
Claims use since June, 1903.

Ser. No. 146,983. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STANDARD STEEL WORKS COMPANY, Philadelphia, Pa. Filed Apr. 29, 1921.

S

Particular description of goods.—Steel Tires, Steel-Tired Wheels, and Solid Rolled-Steel Wheels.
Claims use since June, 1893.

Ser. No. 147,132. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed May 2, 1921.

EBONOL

Particular description of goods.—Paint for Coating Roofs, Elastic Paint for Use on Paper, Felt, Canvas, or Tin Roofing, Rain-Water Tanks, Pipe, Sluice Boxes, Water Troughs and Gutters, Copings, and Iron Fences.
Claims use since June 30, 1906.

Ser. No. 147,232. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE ELECTRIC ALLOY STEEL COMPANY, Youngstown, Ohio. Filed May 5, 1921.

ULTIMATE STEELS

No claim to the word "Steels" apart from the mark shown on drawing.
Particular description of goods.—Steel.
Claims use since Jan. 20, 1921.

Ser. No. 147,233. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE ELECTRIC ALLOY STEEL COMPANY, Youngstown, Ohio. Filed May 5, 1921.

PANTHER

Particular description of goods.—Steel.
Claims use since Nov. 15, 1920.

Ser. No. 147,234. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE ELECTRIC ALLOY STEEL COMPANY, Youngstown, Ohio. Filed May 5, 1921.

CONDOR

Particular description of goods.—Steel.
Claims use since Nov. 15, 1920.

Ser. No. 147,235. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE ELECTRIC ALLOY STEEL COMPANY, Youngstown, Ohio. Filed May 5, 1921.

PYTHON

Particular description of goods.—Steel.
Claims use since Nov. 15, 1920.

Ser. No. 147,304. (CLASS 17. TOBACCO PRODUCTS.) ANTONIO MARTINEZ, Jacksonville, Fla. Filed May 6, 1921.



The picture is purely fanciful and not that of a living person.

Particular description of goods.—Cigars.

Claims use since July 1, 1920.

Ser. No. 147,553. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAMPBELL MANUFACTURING CO., Oakland, Calif. Filed May 11, 1921.



No claim is made for the words "It's Just Dandy" apart from the mark. The portrait is a picture of Adrieene Backs, 14 yrs. old.

Particular description of goods.—Plum and Other Fruit Puddings, Chocolate, Vanilla, and Other Flavored Puddings Except Meat Puddings.

Claims use since Jan. 26, 1921.

Ser. No. 147,754. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE H-O CEREAL COMPANY, INC., Buffalo, N. Y. Filed May 13, 1921.

THE H-O CO'S

Particular description of goods.—Animal, Bird, and Poultry Feeds.

Claims use since 1904.

Ser. No. 147,853. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed May 17, 1921.

PATTIES

Particular description of goods.—Compressed Circular Disklike Forms of Rouge and Face Powder.

Claims use since May 10, 1921.

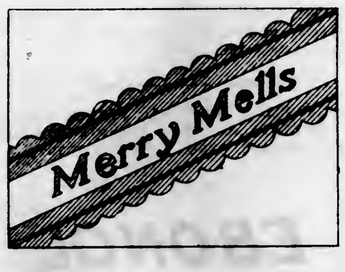
Ser. No. 147,866. (CLASS 39. CLOTHING.) DAVIES SHOE MANUFACTURING CO., Racine, Wis. Filed May 18, 1921.



Particular description of goods.—Men's and Children's Shoes Made Wholly or in Part of Leather.

Claims use since June, 1917.

Ser. No. 147,879. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEO HIRSCHFELD, White Plains, N. Y. Filed May 18, 1921.



Trade-mark "Merry Mells" upon a white band bordered by two scalloped brown-colored bands, each of which is divided into approximately equal parts by a narrow white band, the whole being arranged upon a background consisting of parallel brown shade lines.

Particular description of goods.—Candy.

Claims use since May 9, 1921.

Ser. No. 148,134. (CLASS 39. CLOTHING.) T. H. DOWNING & CO. LIMITED, Leicester, England. Filed May 24, 1921.



Particular description of goods.—Cardigan Jackets, Undercoats, Dress Shirts, Jerseys, Singlets, Gloves, Mittens, Work Shirts, Negligee Shirts, Vests, Petticoats, Underskirts, Dress Skirts, Bodices, Pelisses, Bloomers, Knickers, Blouses, Aprons, Knitted Coats, Knitted Leggings, Gaiters, Outer Coats, Cloaks, Capes, Trousers, Waistcoats, Sleeping Garments, Corsets; Boys' and Girls' Jersey Suits, Bathing Suits, and Costumes; Overalls, Mufflers, Scarfs, Shawls, All Made of Knitted or Textile Fabric or of Both Knitted and Textile Fabrics, for Men, Women, and Children.

Claims use since Aug. 20, 1919.

Ser. No. 148,227. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREDERICK C. HITCH, Brooklyn, N. Y. Filed May 25, 1921.

VITA-MINTS

No claim is made to the word "Mints" apart from the trade-mark shown.

Particular description of goods.—Candy Confection Flavored with Mint.

Claims use since May 16, 1921.

Ser. No. 148,271. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FIAT, Turin, Italy. Filed May 26, 1921.

FIAT

Trade-mark "Fiat."

Particular description of goods.—Aluminium, Tool Steel, Iron Bars and Rails, Steel Bars and Rails, Sheet Iron, Boiler Plates, Armor Plates; Copper Bars, Plates and Wire; Brass Bars, Plates and Wire; Sheets of Zinc, Sheets of Lead, Ferrous and Nonferrous Alloys, Fusible Alloys, Antifriction Alloys, and Cast-Iron Machine Frames, Unfinished Forged Crank Shafts, Unfinished Aluminium Crank Cases, and T Bars.

Claims use since Oct. 14, 1919.

Ser. No. 148,387. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE L. C. L. CO., New York, N. Y. Filed May 27, 1921.



No claim is made herein for the words "Store Door Delivery, Trade-Mark" apart from the mark shown; but applicant does not intend thereby to waive any rights it otherwise has in the use of these words.

Particular description of goods.—Railroad Cars and Freight Containers Adapted to Fit on Railroad Cars and Trucks.

Claims use since early part of February, 1921.

Ser. No. 148,841. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HIGH TENSION SUPPLIES COMPANY, Wilmington, Del. Filed June 8, 1921.



Particular description of goods.—Resistors, Lightning Arresters, and Fuses for Electrical Purposes.

Claims use since Oct. 18, 1920.

Ser. No. 148,931. (CLASS 38. PRINTS AND PUBLICATIONS.) MAY BLISS DICKINSON, Boston, Mass. Filed June 10, 1921.



Particular description of goods.—Printed Books, Pamphlets, and Photographs.

Claims use since 1917.

Ser. No. 149,011. (CLASS 39. CLOTHING.) T. J. MAXWELL & CO., Peekskill, N. Y. Filed June 11, 1921.

Sleepwell

Trade-mark "Sleepwell."
Particular description of goods.—Sleeping Garments—viz, Pyjamas and Night Robes.
Claims use since about Dec. 31, 1901.

Ser. No. 149,012. (CLASS 39. CLOTHING.) T. J. MAXWELL & CO., Peekskill, N. Y. Filed June 11, 1921.

Restwell

Trade-mark "Restwell."
Particular description of goods.—Sleeping Garments—viz, Pyjamas and Night Robes.
Claims use since about May, 1901.

Ser. No. 149,042. (CLASS 12. CONSTRUCTION MATERIALS.) THE VITRIFYX COMPANY, Chicago, Ill. Filed June 11, 1921.



Exclusive right to the object represented being claimed only in connection with the mark.
Particular description of goods.—Hardening and Waterproofing Ingredients for Cement.
Claims use since about Feb. 1, 1920.

Ser. No. 149,043. (CLASS 12. CONSTRUCTION MATERIALS.) THE VITRIFYX COMPANY, Chicago, Ill. Filed June 11, 1921.



No exclusive right is claimed to use of words "Products Dominate."
Particular description of goods.—Hardening and Waterproofing Ingredients for Cement.
Claims use since about July 1, 1920.

Ser. No. 149,178. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FAIRY GIFT COMPANY, Cincinnati, Ohio. Filed June 15, 1921.



Particular description of goods.—Playboxes Consisting of #116 Water-Flower Set, Containing Water Flowers, Clay Pipe, and Soap; #142 Pastime Set for Girls, Containing Doilies, Floss, Yarn, Hoops, Thimble, Needle, Scissors, and Knitter; #186–7 Rainbow Set for Getting Well Girls and Boys, Containing Seven Surprise Packages; #400 Bubble Set, Containing Sanitary Bubblers, Clay Pipe, Wonder Bubbler, Metal Pipe, and Soap; #503 Puzzle Set, Containing Three Wire Puzzles and One Cut-Out; #515 Bubble Set de Luxe, Containing Rubber Apron, Clay Pipe, Wood Pipe, Sanitary Bubblers, Soap, and Pan; #517 Peter Rabbit Crayon Set, Containing Four Prints in Colors, Four Black and White Prints and Crayons; #533 Baby-Doll Sewing Set, Containing Doll, Materials for Dressing, and Patterns; #534 Sunbonnet-Girl Sewing Set, Containing Doll, Materials for Dressing, and Patterns; #535 Red Riding Hood Sewing Set, Containing Doll, Materials for Dressing, and Patterns; #536 Little-Dressmaker Set, Containing Doll, Materials, Scissors, Needle, Thimble, and Thread; #540–1 Surprise Set, Containing Seven Surprise Packages; #615 Fairy City, Containing Houses, Paste, and Scissors; #623 Carpenter Set, Containing Carpenter Tools and Carpenter Apron; #640A Jump-Rope Set, Containing Jump Rope, Jacks, Ball, and Bag; #644 Kindergarten-Bead Set, Containing Kindergarten Beads in Wood Box; #701 Magic Painting Set, Containing Magic Painting Book, Magic Papers, Water Flowers, Transfer Pictures, and Paintbrush; #702 Paper-Doll Set, Containing Three Paper Dolls, Three Dresses Each, Three Animals, Three Costumes Each, Two Paper-Doll Sheets, Paper-Doll Family, and Scissors; #703 Child's Writing Set, Containing Twelve Sheets Paper, Twelve Envelopes, Pencil, Pen, Penwiper, and Sealing Wax; #704 Dolly's Jewelry Set, Containing Perfumed Heart, Belt, and Purse; #705 Boys' Gift Set, Containing Woodman Whistle, Sun Glasses, Magnet, Balloon, and Rubber Pistol; #706 Dolly's Toilet Set, Containing Hairbrush, Comb, Rattle, Pacifier, and Beauty Pins; #707 Kindergarten Set, Containing Stencils, Pencil, Pegs, Slats, and Parquetry; #708 Baby Gift Set, Containing Rattle, Large Celluloid Animal, Small Celluloid Animal, and Doll; #709 Paint Book and Stencil Set, Containing Paint Book, Pencil, Crayons, and Stencils; #710 Stencil-Map Set, Containing Stencil Maps and Pencil; #711 Painting Set, Containing Painting Book, Book of Paints, and Brush; #712 Sewing-Card and Stencil Set, Containing Stencils, Sewing Cards, Pencil, Floss, Yarn, and Needle; #714 Bathroom Set, Containing Bathtub, Toilet, Medicine Cabinet, Footstool, and Washstand; #718 Pistol Set, Containing Repeater Pistol, Reload, and Ba[illegible]; #405 Puzzle Set, Containing Three Wire Puzzles; #600 Fairy-Tale Cut-Out Blocks, Containing Four Wooden Puzzles with Corresponding Color Prints of Fairy Tales, Three Assortments; #700 Bedtime Cut-Out Blocks, Containing Four Wooden Puzzles with Corresponding Color Prints Illustrating Peter Rabbit, Reddy Fox, Johnny Chuck, and Danny Meadow Mouse.
Claims use since 1915.

Ser. No. 149,594. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) MERRITT RUBBER CO. INC., New York, N. Y. Filed June 24, 1921.



No claim is made to the exclusive use of the words "Guaranteed Serviceable, Positively Porous Proof, The Mark of the Merit Tube, New York, N. Y., U. S. A." apart from the mark as shown in the drawing.
Particular description of goods.—Rubber Vehicle Tires and Rubber Inner Tubes.
Claims use since May 9, 1921.

Ser. No. 150,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM H. DOCKHORN, Elwood, Kans. Filed July 5, 1921.

DOCK'S

The lining shown on drawing represents shading.
Particular description of goods.—Mineral Feed Mixtures for Live Stock and Poultry.
Claims use since Mar. 1, 1921.

Ser. No. 150,208. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LOUIS C. SCHERMERHORN, Hawthorne, N. J. Filed July 9, 1921.

VELTONE

Particular description of goods.—Strings for Violins, Guitars, and Similar Musical Instruments.
Claims use since June 10, 1921.

Ser. No. 150,652. (CLASS 11. INKS AND INKING MATERIALS.) BINNEY & SMITH COMPANY, East Orange, N. J., and New York, N. Y. Filed July 20, 1921.



The border surrounding the keystone on which the mark "Alpha" is displayed is lined to indicate the color red. No claim is made to the descriptive words "Stencil Ink."
Particular description of goods.—Stenciling and Marking Ink.
Claims use since July 7, 1918.

Ser. No. 151,527. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN AUTO LAMP CO., INC., New York, N. Y. Filed Aug. 8, 1921.

MARVEL

Particular description of goods.—Electric Automobile Lamps.
Claims use since July 26, 1921.

Ser. No. 151,540. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE HUERFANO AGENCY COMPANY, Walsenburg, Colo. Filed Aug. 8, 1921.



No claim is made to the words "Colorado" and "Coals" apart from the mark shown in drawing. The

word "Haco" is printed in white colored letters. The background of the horizontal band on which the word "Haco" is printed and also the peripheral edge band of the circle in which the words of the trade-mark appear, as shown on the drawing, are also black in color. The words "Colorado" and "Coals" are in black letters, and the semicircular-shaped background of these words is red in color.

Particular description of goods.—Coals.
Claims use since about Jan. 1, 1921.

Ser. No. 151,779. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) BURD HIGH COMPRESSION RING COMPANY, Rockford, Ill. Filed Aug. 15, 1921.



No claim is made to the representation of a piston ring apart from the mark shown.

Particular description of goods.—Piston Rings.
Claims use since March, 1920.

Ser. No. 152,203. (CLASS 39 CLOTHING.) JACOB EISNER, New York, N. Y. Filed Aug. 26, 1921.



The word "Clothes," as shown in the drawing, is disclaimed apart from the mark shown in drawing.

Particular description of goods.—Men's, Youths', and Boys' Clothing of Textile Fabric for Outer Wear—Namely, Coats, Vests, Trousers, Overcoats, and Suits.
Claims use since June 1, 1921.

Ser. No. 152,291. (CLASS 12. CONSTRUCTION MATERIALS.) VICTORY PRODUCTS, INC., Boston, Mass. Filed Aug. 27, 1921.



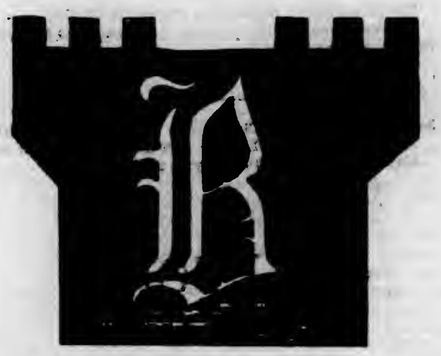
Particular description of goods.—Composition Roofings.
Claims use since Feb. 3, 1921.

Ser. No. 152,584. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PODESTA IMPORT COMPANY, San Francisco, Calif. Filed Sept. 3, 1921.

ALBA

Particular description of goods.—Mushrooms in Oil; Canned, Dried, and Fresh Fruits and Vegetables; Canned Fish, Mushrooom Sauce, Dry Mushrooms, Concentrated Tomato Paste, Chestnut Flour, Macaroni, Jams, Cheese, and Antipasto—Namely, an Appetiser Prepared from Such Foods as Anchovies, Sardines, Mushrooms, Pickles, and Olives, Combined with a Sauce in Different Ways of Preparing, and Then Flavored and Canned.
Claims use since May 23, 1921.

Ser. No. 152,780. (CLASS 12. CONSTRUCTION MATERIALS.) BATESVILLE LUMBER & VENEER CO., Lawrenceburg, Ind. Filed Sept. 10, 1921.



Particular description of goods.—Veneer Panels for Use in Manufacture of Furniture, Plywood, and Lumber.
Claims use since July 22, 1921.

Ser. No. 152,852. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MCDOUGALL-BUTLER CO., INC., Buffalo, N. Y. Filed Sept. 12, 1921.

PERMANITE

Particular description of goods.—Varnish.
Claims use since about 1896.

Ser. No. 153,211. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) SIGMUND L. GOLDMAN, doing business as Red Sun Products Co., Chicago, Ill. Filed Sept. 22, 1921.



RED SUN

Particular description of goods.—Root-Beer Extracts for Making Maltless Beverages.
Claims use since on or about Aug. 16, 1920.

Ser. No. 153,847. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JENKINS & WAGNER, Cincinnati, Ohio. Filed Oct. 7, 1921.



Particular description of goods.—Soap.
Claims use since on or about Aug. 31, 1921.

Ser. No. 154,362. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GESELLSCHAFT FUR WOLFRAM-INDUSTRIE, M. B. H., Traunstein, Germany. Filed Oct. 20, 1921.

„Tizit“

Particular description of goods.—Unwrought or Partly-Wrought Ferrous and Nonferrous Metallic Alloys of Great Hardness.
Claims use since September, 1917.

Ser. No. 154,869. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FEDERAL GROCERY CO., also operating as The Rock Bottom Stores, Los Angeles, Calif. Filed Nov. 1, 1921.



Particular description of goods.—Canned Vegetables—viz, Tomatoes, Sweet Corn and Peas, Canned Fruit, Coffee, Bread, Canned Fish, Spices, Peanut Butter, Honey, and Flavoring Extracts, Vinegar, Salad Oil, Olives, Mayonnaise, Jellies, and Preserves.
Claims use since Dec. 15, 1917.

Ser. No. 155,026. (CLASS 12. CONSTRUCTION MATERIALS.) NATIONAL KELLASTONE CO., Chicago, Ill. Filed Nov. 4, 1921.

KELLASTONE

Trade-mark "Kellastone."
Particular description of goods.—Building Cement and Stucco.
Claims use since Mar. 21, 1910.

Ser. No. 155,423. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERWIN W. WATKINS, Copper Hill, Tenn. Filed Nov. 15, 1921.



Exclusive right to the word "Lotion" is disclaimed. Trade-mark embodies the applicant's picture with the words "Le-M-Nee" and "Lotion" arranged, respectively, on opposite sides, the two words consisting of black letters on a yellow background.

Particular description of goods.—Face Lotion.
Claims use since Oct. 10, 1921.

Ser. No. 155,563. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HUGH KERANS, St. Louis, Mo. Filed Nov. 18, 1921.

LIGHTNING GRIP

Particular description of goods.—Rubber Patches for Inner Tubes for Pneumatic Tires.
Claims use since about Nov. 15, 1921.

Ser. No. 155,944. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) R. WILLIAMSON & COMPANY, Chicago, Ill. Filed Nov. 25, 1921.

WILLIAMSON

Particular description of goods.—Electric-Lighting Fixtures and Electric-Lighting Furniture.
Claims use since on or about June 1, 1921.

Ser. No. 156,818. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALABAMA BY-PRODUCTS CORPORATION, Birmingham and Tarrant, Ala. Filed Dec. 17, 1921.

AMMONIA BENZOL A B C COKE TAR

"ALABAMA'S BEST COKE."

No claim is made to the exclusive use of the words "Ammonia, Benzol, Coke Tar" and "Alabama's Best Coke" apart from the mark shown in drawing. The trade-mark comprises a diamond-shaped center panel of red with the letters "A B C" in white.
Particular description of goods.—Ammonia and Benzol.
Claims use since March, 1920.

Ser. No. 157,019. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MANOEL DE ORTIGAO BURNAY, Paris, France. Filed Dec. 22, 1921.

THERMOSONUS

Trade-mark consists of the invented word "Thermosonus."
Particular description of goods.—Fire-Alarm Apparatus Consisting of an Audible Signal Operated When an Electric Circuit is Closed by Expansion of a Chamber Controlling Said Circuit.
Claims use since on or about July 1, 1921.

Ser. No. 157,047. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SMITH & HEMENWAY COMPANY, INC., New York, N. Y., and Irvington, N. J. Filed Dec. 22, 1921.



No claim is made to the words "Pliers are your fingers of steel." The conventional lining of the drawing expresses the color red and shadings thereof.
Particular description of goods.—Pliers, Glass Cutters, Auger Bits, Star Drills, Lineman's Wire Grips and Clamps and Pole Climbers, Punches, Bolt Cutters, Snips, Nail Pullers, and Hack-Saw Blades.
Claims use since on or about Oct. 1, 1921.

Ser. No. 157,304. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ESTATE OF A. C. DECKER, doing business as Decker Manufacturing Company, Keokuk, Iowa. Filed Dec. 30, 1921.

NEW IDEA

Particular description of goods.—Lever-Handle Instruments for Slitting the Noses of Hogs and Marking the Ears of Animals.
Claims use since January, 1904.

Ser. No. 157,305. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ESTATE OF A. C. DECKER, doing business as Decker Manufacturing Company, Keokuk, Iowa. Filed Dec. 30, 1921.

NEVER ROOT

Particular description of goods.—Lever-Handle Instruments for Slitting the Noses of Hogs and Marking the Ears of Animals.
Claims use since January, 1904.

Ser. No. 157,319. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JEAN RENÉ LEMAITRE, Paris, France. Filed Dec. 30, 1921.

TERCINOL

Particular description of goods.—Antiseptic Compounds.
Claims use since Mar. 1, 1912.

Ser. No. 157,352. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE APEX ELECTRICAL MANUFACTURING CO., Cleveland, Ohio. Filed Dec. 31, 1921.

ROTAREX

Particular description of goods.—Electrically-Operated Dish Washers and Suction Cleaners.
Claims use since Oct. 1, 1921.

Ser. No. 157,762. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FEDERAL COAL COMPANY, Chattanooga, Tenn. Filed Jan. 11, 1922.

STRAIGHT CREEK FEDERAL COAL

No claim is made to the words "Coal" and "Straight Creek," no common-law rights, however, being waived.
Particular description of goods.—Coal.
Claims use since Oct. 21, 1921.

Ser. No. 157,884. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CHICAGO CITY RUBBER WORKS, Chicago, Ill. Filed Jan. 13, 1922.

TEDESON

Particular description of goods.—Rubber Automobile Tires.
Claims use since Oct. 1, 1921.

Ser. No. 157,885. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CHICAGO CITY RUBBER WORKS, Chicago, Ill. Filed Jan. 13, 1922.

RANGER

Particular description of goods.—Rubber Automobile Tires.
Claims use since Oct. 1, 1921.

Ser. No. 157,886. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CHICAGO CITY RUBBER WORKS, Chicago, Ill. Filed Jan. 13, 1922.

SWIFT

Particular description of goods.—Rubber Automobile Tires.
Claims use since Oct. 1, 1921.

Ser. No. 157,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY P. BALDWIN, LTD., Lahaina, Territory of Hawaii. Filed Jan. 14, 1922.

NATIVE

Particular description of goods.—Canned Pineapple.
Claims use since Aug. 30, 1921.

Ser. No. 158,076. (CLASS 45. BEVERAGES, NONALCOHOLIC.) COLUCCI & SON, Ashtabula, Ohio. Filed Jan. 18, 1922.

CASSOSA

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making Same—Namely, Lemon Soda, Ginger Ale, and Chocolate and Strawberry Sodas.
Claims use since about July 1, 1915.

Ser. No. 158,091. (CLASS 38. PRINTS AND PUBLICATIONS.) PSYCHO-OCCULT INSTITUTE OF BUSINESS SUCCESS, Chicago, Ill. Filed Jan. 18, 1922.



Particular description of goods.—Publication in the Form of Booklets and Leaflets Appearing from Time to Time.
Claims use since Dec. 31, 1921.

Ser. No. 158,310. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GROVELAND CITRUS GROWERS ASSOCIATION, Groveland, Fla. Filed Jan. 23, 1922.

SUNNY HILL

Particular description of goods.—Fresh Citrus Fruits—viz, Oranges and Grapefruit.
Claims use since Nov. 22, 1921.

Ser. No. 158,754. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BELTON MILLS, Belton, S. C. Filed Feb. 2, 1922.



BELT-ON

Particular description of goods.—Sheetings.
Claims use since Jan. 10, 1922.

Ser. No. 158,778. (CLASS 39. CLOTHING.) JONES, WOODBURY & SMITH, Skowhegan, Me. Filed Feb. 2, 1922.

Gordon

Particular description of goods.—Pants, Dress, Negligee, Work, and Under Shirts; Socks, and Mackinaws.
Claims use since Sept. 15, 1921.

Ser. No. 158,824. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DAYTON PNEUMATIC TOOL COMPANY, Dayton, Ohio. Filed Feb. 3, 1922.

CHAMPION

Particular description of goods.—Portable Riveting Hammer.
Claims use since on or about Dec. 1, 1919.

Ser. No. 159,366. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE LANCHESTER MOTOR CO. LTD., Birmingham, England. Filed Feb. 15, 1922.

LANCHESTER

Particular description of goods.—Automobiles, Motor Trucks, and Motor Cycles.
Claims use since June 1, 1900.

Ser. No. 159,396. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH ZABLUDOFF, Philadelphia, Pa. Filed Feb. 16, 1922.

Stayneat

HAIR NET



No exclusive use of the words "Hair Net" is made from the other features of the mark. The lining on the drawing indicates shading. The name of the individual whose picture is part of the trade-mark is Frances Collins.
Particular description of goods.—Hair Nets.
Claims use since Mar. 1, 1920.

Ser. No. 159,401. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILFRID I. BOOTH, Elmira, N. Y. Filed Feb. 16, 1922.

True Blue

Trade-mark "True Blue."
Particular description of goods.—Candy.
Claims use since about 1916.

Ser. No. 159,405. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILFRID I. BOOTH, Elmira, N. Y. Filed Feb. 16, 1922.

ESTHER

Trade-mark "Esther."
Particular description of goods.—Candy.
Claims use since about 1902.

Ser. No. 159,429. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PLANTERS AND MERCHANTS MILLS, New Braunfels and San Antonio, Tex. Filed Feb. 16, 1922.

BLUEBONNET

Particular description of goods.—Gingham Cloth in the Piece.
Claims use since Jan. 19, 1922.

Ser. No. 159,490. (CLASS 39. CLOTHING.) BAY STATE CORSET COMPANY, Springfield, Mass. Filed Feb. 18, 1922.



Particular description of goods.—Corsets.
Claims use since Jan. 1, 1911.

Ser. No. 159,551. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) G. E. BAROZZI, doing business as Barozzi Drying Machine Co., San Francico, Calif. Filed Feb. 20, 1922.



No claim is made to the exclusive use of the word "Dryers" apart from the mark shown in the drawing.
Particular description of goods.—Drying Machines for Drying Fruit.
Claims use since Sept. 15, 1921.

Ser. No. 159,617. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROCHESTER STAMPING COMPANY, Rochester, N. Y. Filed Feb. 20, 1922.

"Royal-Rochester"

Particular description of goods.—Articles Made Wholly or in Part of Precious Metal or Plated Therewith, Tea-Ball Pots, Chafing Dishes, Salad Forks, Salad Spoons, Baking Dishes, Relish Dishes, Pie Servers, Casseroles, Crumb Sets, Sirup Pitcher and Tray, Candy Jars, Water Pitchers, Cream Pitchers, Sugar Bowls, Bouillon Cups, Cups and Saucers, Cups, Bread and Butter Dishes, Condiment Sets, Pie Knives, Au Gratin Sets, Coffee Urns, Sandwich Trays, Covered Baking Dishes, Salad Bowls, Vegetable Dishes, Trivets, Trays, Bread Boats, and Steak Planks.
Claims use since Jan. 1, 1913.

Ser. No. 159,647. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROCKER-SPRAGUE CO., Dunkirk, N. Y. Filed Feb. 21, 1922.



The lining on drawing indicates the color blue.
Particular description of goods.—Coffee, Cocoa, Spices, and Tea.
Claims use since Dec. 23, 1921.

Ser. No. 159,695. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHADICK, DE LAMATER CORPORATION, New York, N. Y. Filed Feb. 23, 1922.



Particular description of goods.—Internal-Combustion Motors and Parts Thereof.
Claims use since Aug. 2, 1920.

Ser. No. 159,716. (CLASS 39. CLOTHING.) ERWIN G. MUNZER, doing business as E. Munzer & Co., Chicago, Ill. Filed Feb. 23, 1922.

Knicker-Slip

Particular description of goods.—Women's and Misses' Textile-Fabric Underwear.
Claims use since Jan. 1, 1922.

Ser. No. 159,829. (CLASS 12. CONSTRUCTION MATERIALS.) CHARLES W. ALLISON, Charlotte, N. C. Filed Feb. 27, 1922.

UNDABESTOS

Particular description of goods.—Pipe Linings and Coverings Formed of Heat-Insulating Material.
Claims use since Dec. 22, 1921.

Ser. No. 160,047. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE CINCINNATI CLOCK & INSTRUMENT CO., Cincinnati, Ohio. Filed Mar. 2, 1922.



No claim made to words "Trade-Mark" and "Reg. U. S. Pat. Off." apart from the mark shown in the drawing.
Particular description of goods.—Hall Clocks, Mantel Clocks, and Chime Clocks.
Claims use since Sept. 1, 1921.

Ser. No. 160,065. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) NATHANIEL M. KIRSHNER, Los Angeles, Calif. Filed Mar. 2, 1922.



No claim is made to the word "Pearls" apart from the mark shown in the drawing.
Particular description of goods.—Beads Used as Jewelry.
Claims use since Feb. 8, 1922.

Ser. No. 160,225. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) X-L BELT BUCKLE CO., Cincinnati, Ohio. Filed Mar. 4, 1922.

"TWINWEDGE"

Particular description of goods.—Belt Buckles Made of or Plated with Precious Metal.
Claims use since on or about Oct. 27, 1921.

Ser. No. 160,229. (CLASS 12. CONSTRUCTION MATERIALS.) THE BARRETT COMPANY, New York, N. Y. Filed Mar. 6, 1922.

Shinglette

Particular description of goods.—Mineral-Surfaced Roll Roofing.
Claims use since about June 1, 1921.

Ser. No. 160,386. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUNTE BROTHERS, Chicago, Ill. Filed Mar. 9, 1922.

KRISPENO

Particular description of goods. — Confectionery — Namely, Candy Bars.
Claims use since May, 1915.

Ser. No. 160,387. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUNTE BROTHERS, Chicago, Ill. Filed Mar. 9, 1922.

TURINO

Particular description of goods. — Confectionery — Namely, Chocolates.
Claims use since 1893.

Ser. No. 160,388. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUNTE BROTHERS, Chicago, Ill. Filed Mar. 9, 1922.

Psyche

Particular description of goods.—Confectionery—Namely, Candy Kisses.
Claims use since May 14, 1917.

Ser. No. 160,389. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN W. BUNN & CO., Springfield, Ill. Filed Mar. 9, 1922.



Particular description of goods.—Chocolate Candy, a Cream-Center Peanut Cluster, Dipped in Chocolate.
Claims use since Nov. 1, 1915.

Ser. No. 160,391. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BECKWITH COMPANY, Reedley, Calif. Filed Mar. 9, 1922.

PLANADA

Particular description of goods.—Preserved Fruits—viz, Figs.
Claims use since June 30, 1921.

Ser. No. 160,397. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDMUND YOUNG FOLEY, Fresno, Calif. Filed Mar. 9, 1922.

BAMBINO

Particular description of goods.—Fresh Grapes.
Claims use since July 15, 1921.

Ser. No. 160,398. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDMUND YOUNG FOLEY, Fresno, Calif. Filed Mar. 9, 1922.

SHIELD OF DAVID

Particular description of goods.—Fresh Grapes.
Claims use since July 15, 1921.

Ser. No. 160,412. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEAD JOHNSON & COMPANY, Evansville, Ind. Filed Mar. 9, 1922.

Dietose

Particular description of goods.—Carbohydrate Food for Infants and Invalids.
Claims use since August, 1921.

Ser. No. 160,454. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASON BROS., Seattle, Wash. Filed Mar. 9, 1922.

WASON'S Better

Particular description of goods.—Coffee.
Claims use since Sept. 15, 1921.

Ser. No. 160,498. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 10, 1922.

S-O-S

Particular description of goods.—Detergent Preparations—Namely, Soap Products.
Claims use since about Feb. 20, 1922.

Ser. No. 160,516. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SILKWOOD-PHARIS WHOLESALE GROCERY COMPANY, West Frankfort, Ill. Filed Mar. 10, 1922.

BLUE FLAG

Particular description of goods.—Canned Vegetables and Pork and Beans.
Claims use since Feb. 1, 1922.

Ser. No. 160,521. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED CANDY COMPANY, Boston, Mass. Filed Mar. 10, 1922.

AFTERNOON TEA

Particular description of goods.—Candy.
Claims use since November, 1921.

Ser. No. 160,545. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FIG-BIT COMPANY, Fresno, Calif. Filed Mar. 11, 1922.

FIG-BIT

Particular description of goods.—Figs in Their Natural State.
Claims use since Feb. 16, 1922.

Ser. No. 160,590. (CLASS 39. CLOTHING.) LEONARD R. CARLEY, Watertown, Conn. Filed Mar. 13, 1922.

KARLODE

Particular description of goods.—Leather Shoes, Canvas Shoes, Rubber Shoes, and Shoes Formed of Fabric Material.
Claims use since about Dec. 20, 1921.

Ser. No. 160,613. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. M. KLEMM & SON, Winter Haven, Fla. Filed Mar. 13, 1922.

BOOSTER

Particular description of goods.—Fresh Citrus Fruit.
Claims use since Nov. 15, 1921.

Ser. No. 160,626. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OCEAN SHORE CANNING CO., Halfmoon Bay, Calif. Filed Mar. 13, 1922.

SEAKIST

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Jan. 10, 1922.

Ser. No. 160,630. (CLASS 12. CONSTRUCTION MATERIALS.) THE PARAFFINE COMPANIES, INC., San Francisco, Calif. Filed Mar. 13, 1922.

TYLO-RED

No claim is made to the exclusive use of the word "Red" apart from the mark shown on drawing.
Particular description of goods.—Waterproof and Weatherproof Roofings Manufactured from Waterproof Material Combined with Felt or Paper or a Combination of Such Materials and Having a Mineral Surface.
Claims use since Jan. 1, 1922.

Ser. No. 160,632. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PFAFFMANN EGG NOODLE CO., Cleveland, Ohio. Filed Mar. 13, 1922.



Particular description of goods.—Noodles, Macaroni, and Spaghetti.
Claims use since on or about January, 1887.

Ser. No. 160,640. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPRINGDALE VINEGAR COMPANY, Springdale, Ark. Filed Mar. 13, 1922.

JOYE

Particular description of goods.—Pure Sugar Vinegar.
Claims use since Dec. 28, 1921.

Ser. No. 160,646. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WITCOMBE, MCGEACHIN & Co., New York, N. Y. Filed Mar. 13, 1922.



Particular description of goods.—Cotton, Cotton and Silk, and Cotton and Artificial-Silk Fabrics in the Piece and Made Up Draperies, Casements, Curtains, and Wall and Furniture Coverings of Said Fabrics.
Claims use since July 21, 1921.

Ser. No. 160,667. (CLASS 39. CLOTHING.) JORDAN MARSH COMPANY, Boston, Mass. Filed Mar. 14, 1922.



No claim is made to the word "Tweeds" apart from the mark shown.
Particular description of goods.—Misses', Coats, Skirts, Dresses, Suits, Hats, and Scarfs; Women's Coats, Skirts, Dresses, Suits, Scarfs, and Hats; Men's Coats and Suits, Girls' Coats and Dresses, Boys' Suits, and Children's Hats and Coats.
Claims use since Feb. 17, 1922.

Ser. No. 160,733. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WENATCHEE DISTRICT CO-OPERATIVE ASSOCIATION, Wenatchee, Wash. Filed Mar. 15, 1922.

"From Nature's Chosen Apple-Land"

Particular description of goods.—Fresh Apples.
Claims use since Oct. 1, 1921.

Ser. No. 160,830. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. L. REESE INC., Albany, N. Y. Filed Mar. 17, 1922.



No claim is made to the word "Brand" apart from the mark shown in drawing. Trade-mark consists of the words "Fort Orange Brand" and the representation of a corner of a stockade, above which is a banner bearing the words "Fort Orange."
Particular description of goods.—Preserved Fruits.
Claims use since Mar. 1, 1921.

Ser. No. 160,901. (CLASS 39. CLOTHING.) ROSENBAUM BROTHERS, Salt Lake City, Utah. Filed Mar. 18, 1922.



Particular description of goods.—Men's and Boys' Work Shirts, Men's and Boys' Overcoats, Men's and Boys' Mackinaw Coats, Men's Pants, Dress and Work, and Leather Vests and Coats.
Claims use since Aug. 9, 1920.

Ser. No. 160,911. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Mar. 20, 1922.

RAY-DIO

Particular description of goods.—Corsets, Corset Waists, Brassières, Bandeaux, Girdles, Belts, Hose Supporters, Ladies' and Misses' Waists, and Textile Fabric Underwear for Women and Children.
Claims use since Jan. 15, 1922.

Ser. No. 160,941. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HANSON MANUFACTURING CO., Topeka, Kans. Filed Mar. 20, 1922.



Particular description of goods.—Sandwich Fillings.
Claims use since Mar. 14, 1922.

Ser. No. 160,947. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. H. JOHNSON & Co., Chicago, Ill. Filed Mar. 20, 1922.

MOTHER-O-MINE

Particular description of goods.—Mayonnaise and Tartar-Sauce Dressing.
Claims use since Feb. 22, 1922.

Ser. No. 160,957. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS H. MCLAUGHLIN, Los Angeles, Calif. Filed Mar. 20, 1922.

BEAR

Particular description of goods.—Fresh Vegetables—Namely, Lettuce, Peas, Tomatoes, Cucumbers, Onions, Potatoes, Cauliflower.
Claims use since Jan. 15, 1922.

Ser. No. 160,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) QUAKER CITY CHOCOLATE & CONFECTIONERY COMPANY, Philadelphia, Pa. Filed Mar. 20, 1922.

Break and Take

Particular description of goods.—Candies.
Claims use since Feb. 15, 1922.

Ser. No. 161,016. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TELERADIO ENGINEERING CORPORATION, New York, N. Y. Filed Mar. 21, 1922.

Teleradio

Particular description of goods.—Wireless and Electrical Equipment.
Claims use since Mar. 11, 1922.

Ser. No. 161,019. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WHITING & DAVIS COMPANY, Plainville, Mass. Filed Mar. 21, 1922.

PRINCESS MARY

Trade-mark consists of the words "Princess Mary."
Particular description of goods.—Mesh Bags Comprised Wholly or in Part of Precious Metal.
Claims use since Mar. 11, 1922.

Ser. No. 161,183. (CLASS 33. GLASSWARE.) GILL BROTHERS COMPANY, Steubenville, Ohio. Filed Mar. 24, 1922.

DIAMOND CROWN

Particular description of goods.—Glass Lamp Chimneys, Lantern Globes, Shades, and Reflectors, and Glass Electric and Gas Shades, Globes, and Reflectors.
Claims use since Mar. 8, 1922.

Ser. No. 161,363. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ADAM KAUFMAN, doing business as Eclipse Timer Mfg. Co., Milwaukee, Wis. Filed Mar. 28, 1922.

Eclipse Oil-Less

No claim is made to the word "Oil-Less" apart from the mark shown in the drawing. The cross on the word oil is lined to indicate color red.
Particular description of goods.—Spark Timers for Internal-Combustion Engines.
Claims use since June 1, 1921.

Ser. No. 161,386. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ALEXANDER SAXE, New York, N. Y. Filed Mar. 28, 1922.

SAXE TVA

Particular description of goods.—Tooth, Face, Nail, and Bath Brushes.
Claims use since Oct. 1, 1921.

Ser. No. 161,535. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Mar. 31, 1922.

CALL BOY



ALARM CLOCK

The words "Alarm Clock" do not form a part of the registration sought apart from the mark shown in the drawing. The picture of the boy is fanciful.
Particular description of goods.—Alarm Clocks.
Claims use since 1915.

Ser. No. 161,577. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MEYER BARISH, doing business as Meyer Barish Mfg. Co., New York, N. Y. Filed Mar. 31, 1922.

MEBACO

Particular description of goods.—Cotton Piece Goods and Piece Goods of Cotton and Silk Mixtures.
Claims use since Jan. 1, 1921.

Ser. No. 161,601. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE VAN CAMP PACKING COMPANY INC., Indianapolis, Ind. Filed Mar. 31, 1922.

SNO-LITE

Particular description of goods.—Soap.
Claims use since Mar. 2, 1922.

Ser. No. 161,644. (CLASS 25. LOCKS AND SAFES.) THE PACKARD ENGINEERING CO., Cleveland, Ohio. Filed Apr. 1, 1922.

MOTORIGHT

Particular description of goods.—Automobile Steering-Wheel Lock.
Claims use since Mar. 7, 1922.

Ser. No. 161,679. (CLASS 38. PRINTS AND PUBLICATIONS.) GROSSET & DUNLAP, INC., New York, N. Y. Filed Apr. 3, 1922.

THE RADIO BOYS SERIES

No claim is made to the word "Series" apart from the mark shown in the drawing.
Particular description of goods.—Series of Books Published Periodically.
Claims use since Mar. 1, 1922.

Ser. No. 161,727. (CLASS 12. CONSTRUCTION MATERIALS.) THEODORE HOSTETTER, Toledo, Ohio. Filed Apr. 4, 1922.

MARBLEITE

Particular description of goods.—Composition Materials for Floors, Walls, and Decorative Purposes.
Claims use since August, 1919.

Ser. No. 161,750. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BERNARD RICH'S SONS, INC., New York, N. Y. Filed Apr. 4, 1922.

DUTCHARDT

Particular description of goods.—Silver Hollow Ware.
Claims use since Mar. 15, 1922.

Ser. No. 161,770. (CLASS 17. TOBACCO PRODUCTS.) ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed Apr. 5, 1922.

La Flor del Rinto

Particular description of goods.—Cigars, Little Cigars, Cigarettes, and Smoking Tobacco.
Claims use since Jan. 1, 1922.

Ser. No. 161,795. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE SEAMLESS RUBBER COMPANY, INC., New Haven, Conn. Filed Apr. 5, 1922.

Patrician

Particular description of goods.—Rubber Combs.
Claims use since May 11, 1921.

Ser. No. 161,854. (CLASS 38. PRINTS AND PUBLICATIONS.) MANAGEMENT MAGAZINES INCORPORATED, Chicago, Ill. Filed Apr. 6, 1922.

CLUB Management

Color is not an essential feature of the mark. The lining is merely for the purpose of shading.
Particular description of goods.—Periodical Published Monthly.
Claims use since Mar. 10, 1922.

Ser. No. 161,876. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) GUSTAV GENSCHOW & CO., AKTIENGESELLSCHAFT, Berlin, Germany. Filed Apr. 7, 1922.



No claim is made to the word "Express" apart from the mark shown in the drawing.
Particular description of goods.—Ammunition.
Claims use since 1903.

Ser. No. 161,933. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE MILLS BROTHERS COMPANY, doing business as The American Products Company, Cincinnati, Ohio. Filed Apr. 8, 1922.

SANA-GENIC

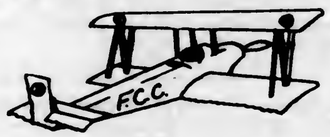
Particular description of goods.—Shaving Cream in the Nature of a Paste Soap, Toilet Soap, and Cleanser for Household Uses, Such as Cleaning Bathtubs, Kitchen Sinks, Pots and Pans, Etc.
Claims use since September, 1917.

Ser. No. 162,074. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TYSMOL CO., San Francisco, Calif. Filed Apr. 10, 1922.

TYSMOL

Particular description of goods.—Preparation for Neuritis, Sciatica, Neuralgia, Rheumatism, and Analogous Diseases.
Claims use since Mar. 15, 1910.

Ser. No. 162,245. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) F. C. CERRONE, doing business as United States Base Ball Manufacturing Co., Johnstown, N. Y. Filed Apr. 13, 1922.



Particular description of goods.—Baseballs.
Claims use since on or about Feb. 8, 1922.

Ser. No. 162,279. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE ALLIED BELTING COMPANY, Greenville, Ohio. Filed Apr. 14, 1922.



Particular description of goods.—Canvas Belting.
Claims use since Nov. 1, 1921.

Ser. No. 162,295. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) CECIL MANUFACTURING CO., New York, N. Y. Filed Apr. 14, 1922.

EVER SILVER WARE

No claim is made to the words "Silver Ware" apart from the mark shown in drawing.
Particular description of goods.—Silver-Plated Flat and Hollow Tableware and Silver-Plated Ware for Soda-Water Use.
Claims use since January, 1921.

Ser. No. 162,455. (CLASS 32. FURNITURE AND UPHOLSTERY.) FRED A. MAILANDER, doing business as Mailander and Company, Waco, Tex. Filed Apr. 18, 1922.

THE BEST BUILT LINE
MAILANDER COMPANY
WACO. TEXAS

No claim is made to the use of the words "The Best Built Line" and "Waco, Texas" apart from the trade-mark shown in the drawing.
Particular description of goods.—Store Display Counters, Cases, and Cabinets.
Claims use since July, 1920.

Ser. No. 162,506. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed Apr. 18, 1922.

TEXOLIVE SOAP

No claim is made to exclusive use of the expression "Soap" except as the same may be used in association with other features of the mark.
Particular description of goods.—Soap.
Claims use since Feb. 15, 1922.

Ser. No. 162,540. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC VACUUM CLEANER COMPANY, INC., Cleveland, Ohio. Filed Apr. 19, 1922.

Premier Duplex

Particular description of goods.—Electric Vacuum Cleaners and Parts Thereof.
Claims use since on or about Dec. 21, 1921.

Ser. No. 162,603. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) HENRY BOTTERI, doing business as International Fireworks Co., Schenectady, N. Y. Filed Apr. 20, 1922.



No claim is made to "Schenectady, N. Y." apart from the mark shown in the drawing. The lining is for shading and not to indicate color.
Particular description of goods.—Fireworks.
Claims use since Mar. 1, 1922.

Ser. No. 162,666. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE R. G. COURT CO. INC., Covington, Ky. Filed Apr. 21, 1922.



All words and numerals appearing on the drawing are disclaimed apart from the mark except the word "Wyn-Ola" and the name of the corporation (The R. G. Court Co. Inc.).
Particular description of goods.—Nonalcoholic, Maltless Beverage Sold as Soft Drink.
Claims use since June 15, 1900.

Ser. No. 162,776. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SHIMAN BROS. & CO., New York, N. Y. Filed Apr. 22, 1922.



Particular description of goods.—Jewelry for Personal Wear, Not Including Watches.
Claims use since Apr. 1, 1922.

Ser. No. 162,836. (CLASS 38. PRINTS AND PUBLICATIONS.) G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Apr. 24, 1922.

WEBSTER'S

Particular description of goods.—Books, More Particularly Dictionaries, Which are Published from Time to Time.
Claims use since July 31, 1890.

Ser. No. 162,862. (CLASS 12. CONSTRUCTION MATERIALS.) WORCESTER LUMBER COMPANY, LTD., Chassel, Mich. Filed Apr. 24, 1922.

HALF CENTURY

Particular description of goods.—Sawed and Planed Lumber, Shingles, and Wood Flooring.
Claims use since about Aug. 1, 1920.

Ser. No. 162,962. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) YARDLEY & CO., LIMITED, Stratford, London, England. Filed Apr. 26, 1922.



The words "Old English Lavender Water" and "London" are disclaimed apart from the mark shown on drawing. The lining shown indicates shading.
Particular description of goods.—Toilet Soap.
Claims use since February, 1912.

Ser. No. 163,023. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CARRIE V. WOOD, Oakland, Calif. Filed Apr. 27, 1922.

K-BAG

No claim is made to the word "Bag" apart from the mark shown on drawing.

Particular description of goods.—Powder for Cleaning White Shoes.

Claims use since September, 1920.

Ser. No. 163,112. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIALL COMPANY, New York, N. Y. Filed Apr. 29, 1922.

AMPERITE

Particular description of goods.—Automatic Filament Current Adjuster.

Claims use since Mar. 15, 1922.

Ser. No. 163,184. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE STRONG-KENNARD & NUTT COMPANY, Cleveland, Ohio. Filed May 1, 1922.

S.K. Golfocals

Particular description of goods.—Spectacles.

Claims use since Apr. 19, 1922.

Ser. No. 163,195. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 1, 1922.

AURAPOLE

Particular description of goods.—Compasses.

Claims use since March, 1915.

Ser. No. 163,196. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 1, 1922.

CEEBYNITE

Particular description of goods.—Compasses.

Claims use since March, 1915.

Ser. No. 163,197. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 1, 1922.

USANITE

Particular description of goods.—Compasses.

Claims use since December, 1917.

Ser. No. 163,198. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 1, 1922.

LITENITE

Particular description of goods.—Compasses.

Claims use since March, 1915.

Ser. No. 163,199. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 1, 1922.

TELAWAY

Particular description of goods.—Compasses.

Claims use since April, 1916.

Ser. No. 163,200. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 1, 1922.

MERADIAL

Particular description of goods.—Compasses.

Claims use since March, 1915.

Ser. No. 163,201. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 1, 1922.

GYDAWL

Particular description of goods.—Compasses.

Claims use since March, 1915.

Ser. No. 163,202. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 1, 1922.

FLODIAL

Particular description of goods.—Compasses.

Claims use since March, 1915.

Ser. No. 163,221. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX KADE, doing business as Seeck & Kade, New York, N. Y. Filed May 2, 1922.



Particular description of goods.—Cough Medicine.

Claims use since Apr. 12, 1922.

Ser. No. 163,304. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AUDIOLA RADIO COMPANY, Chicago, Ill. Filed May 4, 1922.

AUDIOLA

Particular description of goods.—Radio and Wireless Telephone Equipment Consisting of Receiving and Transmitting Sets and Parts Thereof.

Claims use since Mar. 31, 1922.

Ser. No. 163,358. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DARIOUS SWAN, Freedom, Ind. Filed May 4, 1922.



Particular description of goods.—Spark Plugs.

Claims use since Apr. 24, 1922.

Ser. No. 163,374. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. H. BROWN & BRO. CO., Baltimore, Md. Filed May 5, 1922.

DESRÉE

Particular description of goods.—Perfume, Toilet Water, Sachet Powder, Talcum and Face Powders.

Claims use since Feb. 17, 1922.

Ser. No. 163,376. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BARRETT & BARRETT, St. Paul, Minn. Filed May 5, 1922.



Particular description of goods.—Water Softener in Powder Form.

Claims use since November, 1913.

Ser. No. 163,416. (CLASS 33. GLASSWARE.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed May 5, 1922.

SOCONY

Particular description of goods.—Lamp Chimneys and Reservoirs.

Claims use since Feb. 26, 1908.

Ser. No. 163,428. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ASP-A-LAX COMPANY, Des Moines, Iowa. Filed May 6, 1922.

ASP-A-TOL

Particular description of goods.—Liquid Preparation Containing Aspirin.
Claims use since Apr. 1, 1918.

Ser. No. 163,438. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM J. DAVIES, Los Angeles, Calif. Filed May 6, 1922.

GRAPE FRUTINE

Particular description of goods.—Tonic and Nervine.
Claims use since Apr. 1, 1922.

Ser. No. 163,474. (CLASS 38. PRINTS AND PUBLICATIONS.) THE SILK ASSOCIATION OF AMERICA, New York, N. Y. Filed May 6, 1922.



Particular description of goods.—Annual Report Published Every March, Mid-Year Report Published Every September: Official Organ, The Silkworm, Published Monthly; Also Trade Rules and Technical and Research Reports Published from Time to Time.
Claims use since May 9, 1876.

Ser. No. 163,535. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE E. L. PATCH COMPANY, Stoneham, Mass. Filed May 8, 1922.

SEA-MO

Trade-mark "Sea-Mo."
Particular description of goods.—Skin Lotion.
Claims use since Feb. 15, 1922.

Ser. No. 163,568. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN G. BLAKENEY, doing business as The Sniff-Bang Company, Syracuse, N. Y. Filed May 9, 1922.

SNIFF BANG

Particular description of goods.—Medicinal Preparation to be Sniffed Up the Nostrils, in the Form of a Powder, and to be Taken Internally, in the Form of Capsules, for the Treatment of Colds, Grippe, and Catarrh.
Claims use since Sept. 15, 1921.

Ser. No. 163,597. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS SURUT, doing business as Elias Surut & Son, also known as The Woolen Clearing House, New York, N. Y. Filed May 9, 1922.



Particular description of goods.—Woolen and Wool Mixture Fabrics.
Claims use since May 11, 1921.

Ser. No. 163,615. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE COLONIAL LEATHER COMPANY, INC., Philadelphia, Pa. Filed May 10, 1922.

MOR-PEP

Drawing is lined for shading only.
Particular description of goods.—Belt Preservatives.
Claims use since Apr. 24, 1922.

Ser. No. 163,638. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LONG ISLAND POLISH CO., New York, N. Y. Filed May 10, 1922.

LIPCO

Trade-mark "Lipco."
Particular description of goods.—Metal Cleansers and Polishes.
Claims use since May 26, 1921.

Ser. No. 163,742. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CO-OPERATIVE LEAGUE OF THE UNITED STATES OF AMERICA, Assoc., New York, N. Y. Filed May 12, 1922.



Particular description of goods.—Pamphlets, Monthly Magazines, Printed Books, Leaflets, and Printed Advertising Matter.
Claims use since May 1, 1922.

Ser. No. 163,768. (CLASS 12. CONSTRUCTION MATERIALS.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed May 13, 1922.

SOCONY

Particular description of goods.—Asphaltum.
Claims use since Feb. 26, 1908.

Ser. No. 163,833. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 13, 1922.

TYCALLOY

Particular description of goods.—Thermocouple Stems.
Claims use since February, 1922.

Ser. No. 163,835. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 13, 1922.

"AUTO-CIRCULATION"

Particular description of goods.—Thermometers.
Claims use since March, 1922.

Ser. No. 163,840. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 13, 1922.

"LI-SUL SPRAYOMETER"

Particular description of goods.—Hydrometers.
Claims use since January, 1915.

Ser. No. 163,843. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 13, 1922.

CHARGOMETER

Particular description of goods.—Hydrometers.
Claims use since January, 1919.

Ser. No. 163,862. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DENGEL & MCCORMACK, New York, N. Y. Filed May 15, 1922.

DENMAC

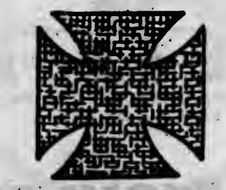
Particular description of goods.—Polishing Cloths for Wood, Metal, Glass, Paints, Varnishes, and Enamels.
Claims use since Apr. 21, 1922.

Ser. No. 163,891. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL ORGANIZATION FOR PUBLIC HEALTH NURSING, New York, N. Y., and Cleveland, Ohio. Filed May 15, 1922.

The PUBLIC HEALTH NURSE

Particular description of goods.—Cover of Its Educational and Scientific Monthly Magazine.
Claims use since Jan. 1, 1913.

Ser. No. 163,927. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN WILSON GILCHRIST, New York, N. Y. Filed May 16, 1922.



Trade-mark consists of a representation of a gold Maltese cross, as indicated by the lines appearing on the drawing.
Particular description of goods.—Silk Piece Goods.
Claims use since Dec. 1, 1914.

Ser. No. 163,931. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HICKOK MANUFACTURING COMPANY, INC., Rochester, N. Y. Filed May 16, 1922.

Beltogram

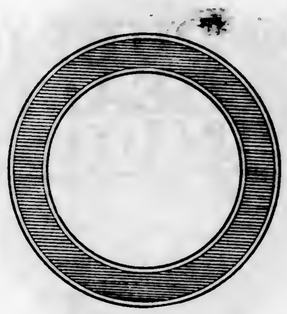
Particular description of goods.—Watch Chains.
Claims use since March, 1922.

Ser. No. 164,006. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PENN DRUG SPEC CO., Pittsburgh, Pa. Filed May 17, 1922.

LADY ANNE

Particular description of goods.—Powder Puffs.
Claims use since Apr. 15, 1922.

Ser. No. 164,076. (CLASS 11. INKS AND INKING MATERIALS.) E. M. RAIGUEL, INCORPORATED, Philadelphia, Pa. Filed May 18, 1922.



Trade-mark is blue as indicated by the horizontal lines on drawing.
Particular description of goods.—Writing Fluid.
Claims use since March, 1907.

Ser. No. 164,159. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BENJAMIN M. FERGUSON, doing business as B. M. Ferguson & Co., Chicago, Ill. Filed May 20, 1922.

RADIOKLEEN

Particular description of goods.—Soap.
Claims use since Apr. 25, 1922.

Ser. No. 164,171. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LYSANDER KEMP & SONS INC., Boston, Mass. Filed May 20, 1922.



Particular description of goods.—Soap Flakes.
Claims use since May 15, 1922.

Ser. No. 164,179. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE MCCHESNEY COMPANY, Newark, N. J. Filed May 20, 1922.



Particular description of goods.—Articles Made of Gold, Silver, Platinum, or a Combination of These Metals: Belt Buckles, Match Boxes, Cigarette Cases, Eyeglass Cases, Miniature Cases, Photo Frames, Cigarette Boxes, Cigar Boxes, Children's Cups, Children's Bowls, Children's Plates, Children's Porringers, Children's Rattles, Children's Banks, Children's Spoons, Children's Forks, Children's Food Pusher, Children's Knives, Children's Napkin Rings, Paper Knives, Letter Clips, Paper Racks, Stamp Boxes, Pen Trays, Inkstand Trays, Inkstands, Drinking Cups, Drinking-Cup Cases, Flash-Light Cases, Cardcases, Purses, Match Holders, Smokers' Trays, Ash Trays, Shaving Cups, Children's Trays, Milk Pitchers, Nail-Polisher Trays, Trinket Boxes, Pin Trays, Manicure Trays, Hairpin Boxes, Shoe Horns, Soap Boxes, Cream Jars, Talcum Boxes, Candlesticks, Powder Boxes.
Claims use since May 15, 1922.

Ser. No. 164,214. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed May 22, 1922.

RADION

Particular description of goods.—Battery Jars, Panels, Covers and Vents, Plate Separators, Magneto Parts, Insulators, Knobs, Lamp Sockets, Bases, Ear Caps, Receiver Cases, Horns for Loud-Speaking Radio Apparatus, All for Electrical Appliances and All Made of Hard Rubber.
Claims use since Apr. 14, 1922.

Ser. No. 164,418. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.

SYMPHONY

Particular description of goods.—Hair Nets.
Claims use since May 1, 1922.

Ser. No. 164,454. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RA-TONE ELECTRIC CO., Detroit, Mich. Filed May 24, 1922.

Ra-Fone

Particular description of goods.—Radio Receiving Sets, Variometers, Variocouplers, Tuning Coils, and Parts Thereof.
Claims use since early part of March, 1922.

Ser. No. 164,534. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BARCLAY & CO., Wilmington, Del., and New York, N. Y. Filed May 26, 1922.

BARRY

Particular description of goods.—Soap.
Claims use since May 10, 1922.

Ser. No. 164,623. (CLASS 38. PRINTS AND PUBLICATIONS.) FRED D. ADAMS, doing business as Adams Publishing Company, Waterloo, Iowa. Filed May 29, 1922.

PAPER WADS

The horizontal lining in the drawing is not to express color, but for shading.
Particular description of goods.—Monthly Publication.
Claims use since on or about May 1, 1922.

Ser. No. 164,625. (CLASS 12. CONSTRUCTION MATERIALS.) A. W. ANDERSON CORPORATION, New York, N. Y. Filed May 29, 1922.

KILMOTH

Particular description of goods.—Cedar Wood Used in Lining Closets.
Claims use since May 1, 1922.

Ser. No. 164,641. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HEIDELL & TROW COMPANY, New York, N. Y. Filed May 29, 1922.



Particular description of goods.—Jewelry for Personal Wear, not Including Watches.
Claims use since Jan. 1, 1922.

Ser. No. 164,756. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GUARANTEE LIQUID MEASURE COMPANY, Rochester, Pa. Filed June 1, 1922.

FRY

Particular description of goods.—Liquid Measuring and Dispensing Pumps.
Claims use since Jan. 25, 1922.

Ser. No. 164,812. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE LACKNER COMPANY, Cincinnati, Ohio. Filed June 2, 1922.

RE-FLEX

Particular description of goods.—Interior Illuminating Electric Signs Using Raised White Opal Glass Letters.
Claims use since Apr. 1, 1922.

Ser. No. 164,851. (CLASS 38. PRINTS AND PUBLICATIONS.) FREDERICK B. VOGEL, Philadelphia, Pa. Filed June 2, 1922.



Particular description of goods.—Monthly Publication.
Claims use since about May 12, 1922.

Ser. No. 165,018. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EDWARD E. HALL, doing business as Whetrite Company, Columbus, Ohio. Filed June 5, 1922.

WHETRITE

Particular description of goods.—Dressing in Powdered Form for Use on Razor Strops.
Claims use since May 22, 1922.

Ser. No. 165,463. (CLASS 32. FURNITURE AND UPHOLSTERY.) CLARENCE S. STEINER, Asbury Park, N. J. Filed June 13, 1922.

"WE PUT THE WORLD TO SLEEP"

Particular description of goods.—Mattresses, Pillows, Bedsteads, Sleeping Couches, and Day Beds.
Claims use since Mar. 17, 1920.

Ser. No. 165,496. (CLASS 38. PRINTS AND PUBLICATIONS.) MARY E. HALL, Chicago, Ill. Filed June 14, 1922.

Woman Beautiful

Particular description of goods.—Monthly Periodicals.
Claims use since Apr. 15, 1922.

Ser. No. 165,510. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ANDREW J. STONE, Greybull, Wyo. Filed June 14, 1922.

Scat-Ye-Dirt

Particular description of goods.—Washing Compound.
Claims use since Dec. 1, 1921.

Ser. No. 165,540. (CLASS 20. LINOLEUM AND OILED CLOTH.) T. R. GOODLATTE & SONS, INC., Delawanna, N. J., and New York, N. Y. Filed June 15, 1922.



No claim is made to the exclusive use of the words "Washable Walcloth" apart from the mark shown in drawing.
Particular description of goods.—Oilcloth—viz, Wall Cloth.
Claims use since June 3, 1922.

Ser. No. 165,559. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PUNG CHOW COMPANY, New York, N. Y. Filed June 15, 1922.

PUNG—CHOW

Particular description of goods.—Game Set Consisting of Tiles or Blocks Utilized in Playing the Game Somewhat After the Manner of Dominoes.
Claims use since at least Apr. 1, 1922.

Ser. No. 165,561. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PUNG CHOW COMPANY, New York, N. Y. Filed June 15, 1922.



Particular description of goods.—Game Set Consisting of Tiles or Blocks Utilized in Playing the Game Somewhat After the Manner of Dominoes.
Claims use since at least Apr. 1, 1922.

Ser. No. 165,585. (CLASS 46. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANKFORD DAVIES AND COMPANY, Pittsburgh, Pa. Filed June 16, 1922.



Particular description of goods.—Washing Compound.
Claims use since May, 1922.

Ser. No. 165,751. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PAUL JONES, New York, N. Y. Filed June 20, 1922.



Hunch Cat

No claim is made to the word "Cat" apart from the mark as shown.
Particular description of goods.—Novelty in the Nature of a Mascot.
Claims use since Dec. 15, 1920.

Ser. No. 165,769. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MARGUERITE SULLIVAN, doing business as Domino House, Philadelphia, Pa. Filed June 20, 1922.

DOMINO

Particular description of goods.—Soaps—Namely, Soaps in Cake, Powder, and Liquid Form.
Claims use since Feb. 1, 1922.

Ser. No. 165,771. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MARGUERITE SULLIVAN, doing business as Domino House, Philadelphia, Pa. Filed June 20, 1922.



Particular description of goods.—Soaps—Namely, Soaps in Cake, Powder, and Liquid Forms.
Claims use since Feb. 1, 1922.

Ser. No. 165,772. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MARGUERITE SULLIVAN, doing business as Domino House, Philadelphia, Pa. Filed June 20, 1922.



No claim is made to the words "Complexion Soap" and "Philadelphia."
Particular description of goods.—Soaps—Namely, Soaps in Cake, Powder, and Liquid Form.
Claims use since Feb. 1, 1922.

Ser. No. 165,816. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THOMAS CLIFTON PERKINS, Atlanta, Ga. Filed June 21, 1922.

PERKINS PRACTICAL BRUSH

ATLANTA BRUSH COMPANY

Applicant hereby disclaims the words "Brush" and "Atlanta Brush Company" apart from the mark shown in the drawing.

Particular description of goods.—Household Brushes.

Claims use since December, 1921.

Ser. No. 165,865. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed June 22, 1922.

Fashona

Trade-mark "Fashona."

Particular description of goods.—Silk, Linen, Woolen, and Cotton Piece Goods and Combinations Thereof.

Claims use since Feb. 23, 1922.

Ser. No. 165,943. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 23, 1922.

ZION LILY

FIELD QUALITY

Particular description of goods.—Bedspreads and Pillow Shams.

Claims use since 1909.

Ser. No. 165,988. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MAY BLISS DICKINSON, Boston, Mass. Filed June 24, 1922.



Particular description of goods.—Dolls, Doll's Clothing, and Doll's Bedding.

Claims use since 1917.

Ser. No. 166,158. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHARLES B. WENNER, New York, N. Y. Filed June 27, 1922.



Particular description of goods.—Liquid Preparation for Cleaning Furniture, Automobiles, Woodwork, and Store Fixtures.

Claims use since Nov. 15, 1921.

Ser. No. 166,666. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed July 10, 1922.

RABBETH

Particular description of goods.—Drag Handles for Fishing Reels.

Claims use since Jan. 14, 1902.

Ser. No. 166,983. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) CONLON ELECTRIC WASHER CO., INC., Cicero, Ill. Filed July 17, 1922.

Morning Glory

Particular description of goods.—Washing Machines.

Claims use since July 6, 1922.

Ser. No. 167,121. (CLASS 17. TOBACCO PRODUCTS.) FAMO CIGAR, Milwaukee, Wis. Filed July 20, 1922.

- NEW - COMER

Particular description of goods.—Cigars, Cheroots, and Cigarettes.

Claims use since Mar. 29, 1904.

Ser. No. 167,189. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE OSBORN-CREW MANUFACTURING COMPANY, Cleveland, Ohio. Filed July 21, 1922.

Kunning-graph

Particular description of goods.—Toy Drawing Instrument.

Claims use since on or about May 15, 1922.

Ser. No. 167,341. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) P. F. VOLLAND CO., Chicago, Ill. Filed July 24, 1922.

PINKY-PUP

Particular description of goods.—Fabric Toy Dogs Adapted to be Stuffed.

Claims use since July 10, 1922.

Ser. No. 167,484. (CLASS 17. TOBACCO PRODUCTS.) OGBURN-GRIFFIN GROCERY CO., Mobile, Ala. Filed July 27, 1922.

O. K. SPECIALS

No claim is made to the word "Specials" apart from the mark as shown.

Particular description of goods.—Cigars.

Claims use since Oct. 1, 1908.

Ser. No. 167,586. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FRANK S. SMITH, Los Angeles, Calif. Filed July 29, 1922.

"KUMBAK"

Particular description of goods.—Golf Games and Putting Devices.

Claims use since Mar. 15, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 29, 1922.

158,167. CHEMICAL PREPARATION FOR CLEANING, DEODORIZING, AND DISINFECTING GARBAGE CANS, TOILET BOWLS, URINALS, AND DRAIN-PIPES. ABBOTT HARDWARE CO., New York, N. Y.
Filed January 31, 1922. Serial No. 158,669. PUBLISHED MAY 30, 1922.

158,168. OPHTHALMIC MOUNTINGS AND PARTS THEREOF. ALBEX OPTICAL CO., Reading, Pa.
Filed March 15, 1922. Serial No. 160,687. PUBLISHED MAY 30, 1922.

158,169. STEP PLATES. ALLOY FOUNDRY AND MACHINE CORPORATION, New Rochelle, N. Y.
Filed December 20, 1921. Serial No. 156,954. PUBLISHED MAY 16, 1922.

158,170. NUTS, FIGS, DATES, AND CURRANTS, FRESH AND CURED. JOHN D. ANTONOPULOS, doing business as United Nut Stores, New York, N. Y.
Filed November 11, 1920. Serial No. 139,504. PUBLISHED JUNE 6, 1922.

158,171. MOTION PICTURES. ARROW FILM CORPORATION, New York, N. Y.
Filed March 1, 1922. Serial No. 159,991. PUBLISHED MAY 30, 1922.

158,172. TABLE SIRUP AND MOLASSES. ATLAS SPECIALTY COMPANY, INC., Richmond, Va.
Filed June 26, 1920. Serial No. 134,231. PUBLISHED SEPTEMBER 6, 1921.

158,173. PERFUME. BALBA CORPORATION OF AMERICA, Toledo, Ohio.
Filed January 3, 1922. Serial No. 157,405. PUBLISHED MAY 30, 1922.

158,174. NUMBERING MACHINES. THE BATES MANUFACTURING COMPANY, Orange, N. J.
Filed February 9, 1922. Serial No. 159,083. PUBLISHED MAY 23, 1922.

158,175. ANTISKID CHAINS. BEAR MANUFACTURING CO., Rock Island, Ill.
Filed December 9, 1921. Serial No. 156,476. PUBLISHED MAY 16, 1922.

158,176. CERTAIN NAMED TOILET PREPARATIONS. THE BEAUTYAID COMPANY, Cincinnati, Ohio.
Filed March 8, 1917. Serial No. 101,982. PUBLISHED MAY 16, 1922.

158,177. SILVER-PLATED TABLEWARE AND CERTAIN NAMED PRECIOUS-METAL HOLLOW WARE. T. N. BENEDICT MFG. CO., East Syracuse, N. Y.
Filed March 9, 1921. Serial No. 144,497. PUBLISHED JUNE 20, 1922.

158,178. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. RAY BENGSET, Kansas City, Mo.
Filed September 16, 1921. Serial No. 152,982. PUBLISHED JUNE 20, 1922.

158,179. TALKING MACHINES, TALKING-MACHINE PARTS, TALKING-MACHINE RECORDS AND NEEDLES. H. S. BERLINER, trading as The Compo Company, Lachine, Quebec, and Toronto, Canada.
Filed October 22, 1921. Serial No. 154,430. PUBLISHED MAY 9, 1922.

158,180. TALKING MACHINES, TALKING-MACHINE PARTS, TALKING-MACHINE RECORDS, AND TALKING-MACHINE NEEDLES. H. S. BERLINER, trading as The Compo Company, Lachine, Quebec, Canada.
Filed January 17, 1922. Serial No. 158,032. PUBLISHED MAY 16, 1922.

158,181. TALKING MACHINES, TALKING-MACHINE PARTS, TALKING-MACHINE RECORDS, AND TALKING-MACHINE NEEDLES. H. S. BERLINER, trading as The Compo Company, Lachine, Quebec, Canada.
Filed January 17, 1922. Serial No. 158,033. PUBLISHED MAY 16, 1922.

158,182. MEDICINE FOR CONSUMPTION, STOMACH POISONING, AND FOR A GENERAL MEDICINAL TONIC. JOHN P. BIEDKA, Brooklyn, N. Y.
Filed February 7, 1922. Serial No. 158,968. PUBLISHED JUNE 6, 1922.

158,183. PHONOGRAPHS. H. L. BULLINGER, doing business as The Piano Exchange, Los Angeles, Calif.
Filed June 23, 1921. Serial No. 149,557. PUBLISHED JUNE 27, 1922.

158,184. BOILER CHEMICALS. THE BIRD-ARCHER COMPANY, New York, N. Y.
Filed January 30, 1922. Serial No. 158,598. PUBLISHED MAY 30, 1922.

158,185. MEDICATED WINE TONIC. BONOVIN, LIMITED, Liverpool, England.
Filed October 27, 1920. Serial No. 138,836. PUBLISHED MAY 9, 1922.

158,186. WASHING MACHINES FOR LAUNDRY PURPOSES. THE BOSS WASHING MACHINE COMPANY, Norwood, Ohio.
Filed March 11, 1922. Serial No. 160,535. PUBLISHED JUNE 27, 1922.

158,187. ROUGE AND COMPACT POWDERS. A. BOURJOIS & CO. INC., New York, N. Y.
Filed December 20, 1921. Serial No. 156,946. PUBLISHED MARCH 14, 1922.

158,188. ROUGE. A. BOURJOIS & CO. INC., New York, N. Y.
Filed December 20, 1921. Serial No. 156,947. PUBLISHED MARCH 14, 1922.

158,189. PERFUMES SOLD AS EXTRACTS AND LOTIONS. A. BOURJOIS & CO. INC., New York, N. Y.
Filed December 20, 1921. Serial No. 156,948. PUBLISHED JUNE 6, 1922.

158,190. ROUGE IN THE NATURE OF COMPACT FACE POWDER. A. BOURJOIS & CO. INC., New York, N. Y.
Filed December 20, 1921. Serial No. 156,949. PUBLISHED JUNE 6, 1922.

158,191. ROUGE, BEING IN THE NATURE OF A COMPACT FACE POWDER. A. BOURJOIS & CO. INC., New York, N. Y.
Filed December 20, 1921. Serial No. 156,950. PUBLISHED MARCH 14, 1922.

158,192. ROUGE, ROUGE POWDER, LIQUID ROUGE, ROUGE GRAS, LIP SALVE, PREPARATIONS FOR GIVING A LUSTER TO EYEBROWS AND EYELASHES, AND NAIL POLISHES. A. BOURJOIS & CO. INC., New York, N. Y.
Filed January 3, 1922. Serial No. 157,404. PUBLISHED JUNE 6, 1922.

158,193. FINGER RINGS, BROOCHES, BAR PINS, LAVALLIÈRES, AND SCARF PINS. D. D. BROKAW & SON, New York, N. Y.
Filed October 24, 1921. Serial No. 154,479. PUBLISHED MAY 9, 1922.

158,194. CHEMICALS USED IN PHOTOGRAPHY. BROMOGRAPH A.-G. MANNHEIM, Mannheim, Germany.
Filed December 5, 1921. Serial No. 156,253. PUBLISHED MAY 30, 1922.

158,195. CHEMICALS USED IN PHOTOGRAPHY. BROMOGRAPH A.-G. MANNHEIM, Mannheim, Germany.
Filed December 5, 1921. Serial No. 156,254. PUBLISHED MAY 30, 1922.

158,196. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. VINCENT F. BRAUKNES, Chicago, Ill.
Filed November 23, 1920. Serial No. 140,015. PUBLISHED MARCH 21, 1922.

158,197. HAIR RESTORER. MARY BURNHAM, trading as E. Burnham, Chicago, Ill.
Filed April 27, 1921. Serial No. 146,792. PUBLISHED NOVEMBER 22, 1921.

158,198. CERTAIN NAMED STRINGED MUSICAL INSTRUMENTS AND PARTS THEREOF. C. BRUNO & SON, INC., New York, N. Y.
Filed December 14, 1921. Serial No. 156,675. PUBLISHED JUNE 13, 1922.

158,199. DIAPHRAGM PUMPS. RALPH B. CARTER COMPANY, New York, N. Y.
Filed January 20, 1921. Serial No. 142,471. PUBLISHED MAY 23, 1922.

158,200. HAIR GREASE, HAIR OIL, AND SHAMPOO. ROSA CHINN, New Orleans, La.
Filed December 5, 1921. Serial No. 156,265. PUBLISHED JUNE 6, 1922.

158,201. HINGES, PARTICULARLY WINDSHIELD HINGES. CITY BRASS WORKS CO., Chicago, Ill.
Filed March 7, 1922. Serial No. 160,284. PUBLISHED MAY 16, 1922.

158,202. INTERNAL PREPARATION FOR THE TREATMENT OF INFLUENZA, TONSILLAR AND PHARYNGEAL INFECTIONS, LUMBAGO, AND JOINT AND MUSCULAR PAINS. COLTON & COLLINS, INC., Oakland, Calif.
Filed May 8, 1920. Serial No. 132,169. PUBLISHED MARCH 21, 1922.

158,203. WRITING INK. CROCKER PEN COMPANY, Everett, Mass.
Filed December 14, 1921. Serial No. 156,677. PUBLISHED JUNE 27, 1922.

158,204. LINIMENT FOR RHEUMATISM. ETHEL E. DAVIS, Boston, Mass.
Filed January 3, 1921. Serial No. 141,766. PUBLISHED MAY 23, 1922.

158,205. MEDICINAL PREPARATION FOR THE TREATMENT AND RELIEF OF RHEUMATISM, SCIATICA, GOUT, AND NEURITIS. THE DELSON CHEMICAL CO., INC., Brooklyn, N. Y.
Filed February 4, 1922. Serial No. 158,858. PUBLISHED JUNE 6, 1922.

158,206. MEDALS AND BADGES MADE OF OR PLATED WITH PRECIOUS METAL. DIEGES & CLUST, New York, N. Y.
Filed August 24, 1921. Serial No. 152,120. PUBLISHED MAY 23, 1922.

158,207. PEARLS. MARK DOTTENHEIM, New York, N. Y.
Filed January 5, 1920. Serial No. 126,813. PUBLISHED FEBRUARY 1, 1921.

158,208. PEARLS. MARK DOTTENHEIM, New York, N. Y.
Filed January 5, 1920. Serial No. 126,814. PUBLISHED FEBRUARY 1, 1921.

158,209. MEDICINES FOR THE TREATMENT OF COLDS AND ANALOGOUS DISEASES. THE EDGAR CHEMICAL COMPANY, Cleveland, Ohio.
Filed January 3, 1922. Serial No. 157,415. PUBLISHED MAY 30, 1922.

158,210. MEDICINE FOR USE IN TREATMENT OF STERILITY IN WOMEN. H. WILL ELDERS, doing business as Nature's Elixir Co., St. Joseph, Mo.
Filed December 27, 1921. Serial No. 157,146. PUBLISHED MAY 30, 1922.

158,211. MEDICINAL PREPARATION IN TABLET FORM FOR USE AS A HEART TONIC OR STIMULANT. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed February 7, 1922. Serial No. 158,987. PUBLISHED JUNE 6, 1922.

158,212. CONSTIPATION PENCILS FOR THE RELIEF OF CHRONIC AND TEMPORARY CONSTIPATION TROUBLE. FRANK E. ERICKSON, Duluth, Minn.
Filed February 6, 1922. Serial No. 158,920. PUBLISHED JUNE 6, 1922.

158,213. SPRINGS FOR TALKING MACHINES. EVERYBODY'S TALKING MACHINE COMPANY, Philadelphia, Pa.
Filed January 25, 1922. Serial No. 158,419. PUBLISHED MAY 23, 1922.

158,214. GASOLINE ENGINES AND HAND-CAR ENGINES. FAIRMONT GAS ENGINE & RAILWAY MOTOR CAR CO., Fairmont, Minn.
Filed March 17, 1922. Serial No. 160,802. PUBLISHED MAY 23, 1922.

158,215. DEPILATORIES. WALTER JOHN FERGUSON, New York, N. Y.
Filed January 15, 1921. Serial No. 142,286. PUBLISHED MAY 9, 1922.

158,216. PERFORATED MUSIC ROLLS OR SHEETS FOR USE WITH MECHANICAL PLAYER INSTRUMENTS. FILMUSIC COMPANY, Los Angeles, Calif.
Filed February 24, 1920. Serial No. 128,773. PUBLISHED JUNE 20, 1922.

158,217. ENVELOPES, FILE FOLDERS, AND FILE POCKETS. JOHN W. FITZGERALD, doing business as The Ames Safety Envelope Company, Boston, Mass.
Filed February 3, 1922. Serial No. 158,827. PUBLISHED APRIL 25, 1922.

158,218. TOOTH PASTE. H. L. FLEMING, doing business as H. L. Fleming Laboratory, Boerne, Tex.
Filed March 25, 1922. Serial No. 161,246. PUBLISHED JUNE 6, 1922.

158,219. DEEP-WELL PUMPS, SUCTION PUMPS, AND DISPLACEMENT PUMPS AND PARTS THEREOF. FORT WAYNE ENGINEERING & MANUFACTURING CO., Fort Wayne, Ind.
Filed February 10, 1921. Serial No. 143,386. PUBLISHED MAY 23, 1922.

158,220. WASHBOARDS. MAXWELL C. FRANK, Oakland, Calif.
Filed February 27, 1922. Serial No. 159,860. PUBLISHED MAY 23, 1922.

158,221. WATCHES AND PARTS OF WATCHES. KILCHENMANN FRÈRES, La Chaux-de-Fonds, Switzerland.
Filed March 24, 1922. Serial No. 161,194. PUBLISHED MAY 23, 1922.

158,222. WOOLEN BLANKETS. I. GINZKEY-MAYERSDORF, INC., New York, N. Y.
Filed February 28, 1922. Serial No. 159,962. PUBLISHED MAY 30, 1922.

158,223. EYEGLASSES, SPECTACLES, AND GOGGLES. GOTHAM OPTICAL CO., INC., New York, N. Y.
Filed January 4, 1922. Serial No. 157,482. PUBLISHED MAY 23, 1922.

158,224. CHEMICAL FOOD FOR YEAST PLANTS. GEORGE GOULD, doing business as The Nu-Do Process Company, New York, N. Y.
Filed December 13, 1921. Serial No. 156,626. PUBLISHED MAY 30, 1922.

158,225. PEPPERMINT ASTRINGENT. FRANCES H. GREEN, doing business as Madame Polly, New York, N. Y.
Filed January 4, 1922. Serial No. 157,485. PUBLISHED MAY 30, 1922.

158,226. WASHING MACHINES. GRINNELL WASHING MACHINE COMPANY, Grinnell, Iowa.
Filed January 25, 1922. Serial No. 158,424. PUBLISHED MAY 23, 1922.

158,227. DISINFECTANT. HARRY HAGUE, trading as Glenwood Manufacturing Co., Glendale, Calif.
Filed January 4, 1922. Serial No. 157,486. PUBLISHED MAY 30, 1922.

158,228. CERTAIN NAMED TOILET PREPARATIONS. EMILY HALLMAN, Chicago, Ill.
Filed March 8, 1920. Serial No. 129,385. PUBLISHED JUNE 6, 1922.

158,229. EYEGLASSES AND SPECTACLES FOR ATHLETIC PURPOSES. MOSES H. HARRIS, New York, N. Y.
Filed January 5, 1922. Serial No. 157,524. PUBLISHED MAY 23, 1922.

158,230. ELECTROLYTE COMPOUND. HARRIS-STEPHENSON, De Ridder, La.
Filed February 1, 1922. Serial No. 158,711. PUBLISHED MAY 30, 1922.

158,231. LOCKS FOR AUTOMOBILES. HERSHEY MANUFACTURING COMPANY, Denver, Colo.
Filed December 7, 1921. Serial No. 156,383. PUBLISHED MAY 30, 1922.

158,232. METAL CLOTHES CONTAINERS FOR WASHING MACHINES. HURLEY MACHINE COMPANY, Chicago, Ill.
Filed January 3, 1922. Serial No. 157,421. PUBLISHED MAY 23, 1922.

158,233. MEDICINES—NAMELY, BLOOD MEDICINE, A MEDICINE USED IN THE TREATMENT OF GONORRHEA AND CLAP, AND ASTHMA MEDICINE. INDIAN REMEDY COMPANY, Brockton, Mass.
Filed December 17, 1921. Serial No. 156,832. PUBLISHED MAY 23, 1922.

158,234. BOX SPRINGS. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed June 25, 1920. Serial No. 134,194. PUBLISHED JANUARY 31, 1922.

158,235. MEDICINAL TONIC TABLETS FOR CERTAIN NAMED USES. IRONGLAND COMPANY, San Francisco, Calif.
Filed February 11, 1922. Serial No. 159,206. PUBLISHED MAY 30, 1922.

158,236. CERTAIN NAMED MEDICINAL, PHARMACEUTICAL, AND TOILET PREPARATIONS. IDA B. JEFFERSON, Longview, Tex.
Filed November 10, 1921. Serial No. 155,263. PUBLISHED MAY 16, 1922.

158,237. DIAPHRAGM FOR PHONOGRAPH REPRODUCERS. JEWEL PHONOPARTS COMPANY, Chicago, Ill.
Filed July 18, 1921. Serial No. 150,538. PUBLISHED JUNE 27, 1922.

158,238. PERFUMERY. ALEXIS JOUBION, Brussels, Belgium.
Filed July 7, 1920. Serial No. 134,650. PUBLISHED MAY 23, 1922.

158,239. HAIR TONICS, PERFUMES, TOILET WATER, AND COLD CREAMS. ROGER JULIAN, doing business under the trade name and style of The Quinoids Company, Brooklyn, N. Y.
Filed April 17, 1920. Serial No. 131,270. PUBLISHED NOVEMBER 30, 1920.

158,240. PHONOGRAPH-RECORD ALBUMS. ANTON F. KASNICK, doing business as Classo Album Company, Elmhurst, Ill.
Filed July 22, 1921. Serial No. 150,814. PUBLISHED JUNE 27, 1922.

158,241. ARTIFICIAL PEARLS, NECKLACES, BRACELETS, BROOCHES, LAVALLIÈRES, AND STICKPINS. CHARLES A. KERNE, New York, N. Y.
Filed March 26, 1921. Serial No. 145,272. PUBLISHED JUNE 14, 1921.

158,242. ARTIFICIAL PEARLS, NECKLACES, BRACELETS, BROOCHES, LAVALLIÈRES, AND STICKPINS. CHARLES A. KERNE, New York, N. Y.
Filed March 26, 1921. Serial No. 145,273. PUBLISHED JUNE 14, 1921.

158,243. HAIR SHAMPOO. ALBERT A. KRUEGER, doing business as Curlox Company, St. Louis, Mo.
Filed January 30, 1922. Serial No. 158,621. PUBLISHED MAY 30, 1922.

158,244. OINTMENT FOR THE TREATMENT OF CERTAIN NAMED DISEASES. GEORG LAABS, Schonhausen, a. Elbe, Germany.
Filed February 7, 1922. Serial No. 158,988. PUBLISHED MAY 30, 1922.

158,245. MASSAGE ALCOHOL. LANGLEY & MICHAELS CO., San Francisco, Calif.
Filed February 1, 1922. Serial No. 158,716. PUBLISHED MAY 30, 1922.

158,246. RUBBING ALCOHOL. LANGLEY & MICHAELS CO., San Francisco, Calif.
Filed February 1, 1922. Serial No. 158,717. PUBLISHED MAY 30, 1922.

158,247. OLIVE OIL. V. LANGMANN, INC., New York, N. Y.
Filed December 21, 1921. Serial No. 156,998. PUBLISHED JUNE 6, 1922.

158,248. MEDICINES FOR THE TREATMENT OF TUBERCULOSIS. R. MILTON LEWIS COMPANY, Detroit, Mich.
Filed September 2, 1921. Serial No. 152,513. PUBLISHED MAY 30, 1922.

158,249. A BLOOD AND NERVE TONIC IN TABLET FORM. WALTER LINDSEY, Toronto, Ontario, Canada.
Filed November 4, 1920. Serial No. 139,167. PUBLISHED MAY 30, 1922.

158,250. CERTAIN NAMED LAUNDRY APPLIANCES. LITTLE GIANT COMPANY, Mankato, Minn.
Filed February 16, 1922. Serial No. 159,424. PUBLISHED JUNE 27, 1922.

158,251. POULTICES AND PLASTERS FOR THE TREATMENT OF BOILS, BURNS, CARBUNCLES, INFECTIONS, AND SKIN DISEASES. OTTO F. LOUIS, Bay City, Mich.
Filed December 27, 1921. Serial No. 157,155. PUBLISHED MAY 30, 1922.

158,252. ROUGE, COLD CREAM, LIP STICK, TOILET WATER, TALCUM POWDER, AND PERFUME. LOURNAY, INC., New York, N. Y.
Filed December 13, 1921. Serial No. 156,649. PUBLISHED MAY 16, 1922.

158,253. CERTAIN NAMED MUSICAL INSTRUMENTS AND SUPPLIES. LUDWIG HUPFELD AKTIENGESELLSCHAFT, Bohlits-Ehrenberg, Germany.
Filed February 10, 1921. Serial No. 143,377. PUBLISHED MAY 9, 1922.

158,254. VETERINARY OINTMENT FOR CERTAIN NAMED USES. THE LYNDON CHEMICAL COMPANY, Dayton, Ohio.
Filed February 8, 1922. Serial No. 159,039. PUBLISHED JUNE 6, 1922.

158,255. LAXATIVES. JOHN H. MCKEON, trading as J. H. McKeon, Ph. G. Better Health Products, Holyoke, Mass.
Filed April 8, 1921. Serial No. 145,904. PUBLISHED JUNE 6, 1922.

158,256. NAIL-POLISH LIQUID, NAIL-POLISH POWDER, NAIL-POLISH CAKE. MAGIC NAIL POLISH CO., New York, N. Y.
Filed January 23, 1922. Serial No. 158,323. PUBLISHED JUNE 6, 1922.

158,257. IMITATION-PEARL NECKLACES. LOUIS N. MARX, New York, N. Y.
Filed December 7, 1921. Serial No. 156,395. PUBLISHED MAY 23, 1922.

158,258. ACCORDIONS. MATTH. HOHNER ACTIEN-GESCHELLSCHAFT, Trossingen, Wurttemberg, Germany.
Filed May 3, 1921. Serial No. 147,168. PUBLISHED JUNE 20, 1922.

158,259. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. LEON MAURICE LABORATORIES, Montgomery, Ala.
Filed January 21, 1921. Serial No. 142,563. PUBLISHED MAY 30, 1922.

158,260. IMITATION PEARLS. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo.
Filed November 21, 1921. Serial No. 155,700. PUBLISHED MAY 2, 1922.

158,261. PHONOGRAPHS EXCLUSIVE OF PHONOGRAPHIC RECORDS. MELODIA PHONOGRAPH CO., Chicago, Ill.
Filed April 5, 1920. Serial No. 130,682. PUBLISHED JUNE 27, 1922.

158,262. WATCHES, CLOCKS, AND PARTS THEREOF. MEYER & STUDELI, Societe Anonyme, Soleure, Switzerland.
Filed December 9, 1920. Serial No. 140,843. PUBLISHED APRIL 5, 1921.

158,263. PRINTING PRESSES. MIEHLE PRINTING PRESS & MANUFACTURING COMPANY, Chicago, Ill.
Filed November 18, 1921. Serial No. 155,565. PUBLISHED MAY 23, 1922.

158,264. CERTAIN NAMED JEWELRY FOR PERSONAL WEAR. JOSEPH E. MILLER, INC., Providence, R. I.
Filed September 6, 1921. Serial No. 152,628. PUBLISHED MAY 16, 1922.

158,265. PERFUME EXTRACTS AND TOILET WATERS. EDWARD L. MITTELSTAEDT, doing business as Mocq, Burnier & Cie. Inc., New York, N. Y.
Filed December 21, 1921. Serial No. 156,999. PUBLISHED MAY 16, 1922.

158,266. MEDICINAL TONICS FOR BRONCHIAL TROUBLES, COLDS, COUGHS, AND GENERAL DEBILITY. E. A. MORRISSEY COMPANY, Boston, Mass.
Filed April 15, 1921. Serial No. 146,225. PUBLISHED JUNE 6, 1922.

158,267. SEATS AND COVERS FOR WATER CLOSETS. J. L. MOTT COMPANY, Trenton, N. J.
Filed February 18, 1922. Serial No. 159,513. PUBLISHED MAY 16, 1922.

158,268. RAZORS, CERTAIN KNIVES OF BASE METAL, SCISSORS, CORK-SCREWS, HAIR-CLIPPING MACHINES, AND SHARPENING STEELS. HERMANN MÜLLER, Halle/Saale, Germany.
Filed November 16, 1921. Serial No. 155,443. PUBLISHED MAY 30, 1922.

158,269. CERTAIN NAMED LOCOMOTIVES, VALVE GEARING, STEAM ENGINES, AND METAL-WORKING MACHINERY. JUDSON MUNDY, Cleveland, Ohio.
Filed September 29, 1921. Serial No. 153,517. PUBLISHED MAY 23, 1922.

158,270. MOTOR CYCLES. NER-A-CAR CORPORATION, Syracuse, N. Y.
Filed February 13, 1922. Serial No. 159,279. PUBLISHED MAY 2, 1922.

158,271. DENTIFRICE IN PASTE FORM. THE NORTH AMERICAN HYGIENIC COMPANY, INC., San Juan, P. R.
Filed March 2, 1921. Serial No. 144,245. PUBLISHED MAY 23, 1922.

158,272. DEPILATORIES. THE ODORONO COMPANY, Cincinnati, Ohio.
Filed January 24, 1921. Serial No. 142,717. PUBLISHED MAY 30, 1922.

158,273. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. OHIO VALLEY BOTTLING WORKS, Cincinnati, Ohio.
Filed December 15, 1919. Serial No. 126,056. PUBLISHED JULY 6, 1920.

158,274. PHONOGRAPH INSTRUMENTS AND RECORDS. OPHRAPHONE CO., INC., New York, N. Y.
Filed September 13, 1919. Serial No. 122,654. PUBLISHED NOVEMBER 23, 1920.

158,275. WASHBOARDS. WALTER C. PALMER, doing business as W. R. Palmer & Co., Cincinnati, Ohio.
Filed February 27, 1922. Serial No. 159,880. PUBLISHED MAY 23, 1922.

158,276. A POMATUM DRESSING FOR THE HAIR. PANNETT & NEDEN, London, England.
Filed December 30, 1921. Serial No. 157,332. PUBLISHED JUNE 6, 1922.

158,277. GERMICIDES AND ANTISEPTICS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed January 23, 1922. Serial No. 158,332. PUBLISHED MAY 23, 1922.

158,278. AIR PUMPS. PATTEN MANUFACTURING COMPANY, Chattanooga, Tenn.
Filed July 13, 1921. Serial No. 150,332. PUBLISHED MAY 23, 1922.

158,279. TALKING MACHINES AND PARTS. THE PERFEK-TONE CORPORATION, Philadelphia, Pa.
Filed August 6, 1919. Serial No. 121,316. PUBLISHED MAY 16, 1922.

158,280. BINOCULAR TELESCOPIC INSTRUMENTS, SUCH AS OPERA GLASSES OR FIELD GLASSES. ARTHUR PERRIN, Brookline, Mass.
Filed January 6, 1922. Serial No. 157,583. PUBLISHED MAY 23, 1922.

158,281. BINOCULAR OPTICAL INSTRUMENTS. ARTHUR PERRIN, Brookline, Mass.
Filed February 3, 1922. Serial No. 158,834. PUBLISHED MAY 23, 1922.

158,282. TONIC FOR USE IN CASES OF NERVOUS EXHAUSTION, WEAKENED VITALITY, LOSS OF APPETITE, AND REDUCED STRENGTH. THE PHILO HAY COMPANY, Newark, N. J.
Filed January 30, 1922. Serial No. 158,644. PUBLISHED MAY 30, 1922.

158,283. CHANGE-SPEED TRANSMISSIONS AND PARTS THEREOF. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed October 11, 1920. Serial No. 138,185. PUBLISHED MAY 16, 1922.

158,284. POWDER FOR FOOT BATHS. ARTHUR L. PORTER, New York, N. Y.
Filed February 4, 1922. Serial No. 158,891. PUBLISHED JUNE 6, 1922.

158,285. HAIR TONIC. QUINORIENT COMPANY, INC., New York, N. Y.
Filed February 4, 1922. Serial No. 158,894. PUBLISHED JUNE 6, 1922.

158,286. LAXATIVE. CARGILL W. REDPATH, Kansas City, Mo.
Filed January 23, 1922. Serial No. 158,335. PUBLISHED MAY 23, 1922.

158,287. CANDY. RAFAEL ROMERO, Tucson, Ariz.
Filed December 19, 1921. Serial No. 156,923. PUBLISHED JUNE 6, 1922.

158,288. CANNED VEGETABLES. W. R. ROACH & Co., Hart, Mich.
Filed September 13, 1918. Serial No. 113,167. PUBLISHED JUNE 6, 1922.

158,289. MALT SIRUP USED AS A FOOD PRODUCT. LETTIE C. ROBINSON, doing business as Eastern Malt Products Co., Concord, N. Y.
Filed October 16, 1920. Serial No. 138,405. PUBLISHED JUNE 13, 1922.

158,290. CHOCOLATE BARS. RUECKHEIM BROS. & ECKSTEIN, Chicago, Ill., assignor to The Cracker Jack Co., Peoria, Ill., a Corporation of Illinois.
Filed November 6, 1919. Serial No. 124,622. PUBLISHED JUNE 6, 1922.

158,291. PILE FABRICS IN THE PIECE. THE SALT'S TEXTILE MANUFACTURING COMPANY. Bridgeport, Conn., and New York, N. Y.
Filed February 9, 1922. Serial No. 159,114. PUBLISHED MAY 16, 1922.

158,292. SCISSORS. SAMSTAG & HILDER BROS., New York, N. Y.
Filed July 21, 1921. Serial No. 150,780. PUBLISHED MAY 30, 1922.

158,293. ARTICLES OF IRON AND STEEL MANUFACTURE, COMPRISING INGOTS, BLOOMS, BILLETS, BARS, PLATES, SHEETS, AND WIRE. SANDVIKENS JERNVERKS AKTIEBOLAG, Sandviken, Sweden.
Filed October 5, 1920. Serial No. 137,967. PUBLISHED MAY 16, 1922.

158,294. ARTICLES OF IRON AND STEEL MANUFACTURE, COMPRISING INGOTS, BLOOMS, BILLETS, BARS, PLATES, SHEETS, AND WIRE. SANDVIKENS JERNVERKS AKTIEBOLAG, Sandviken, Sweden.
Filed October 5, 1920. Serial No. 137,968. PUBLISHED MAY 16, 1922.

158,295. CERTAIN NAMED MUSICAL INSTRUMENTS AND PARTS THEREOF. JACOB SCHWARTZ, New York, N. Y.
Filed January 24, 1922. Serial No. 158,405. PUBLISHED MAY 9, 1922.

158,296. A COSMETIC—NAMELY, FACE CREAM. SCIENTIFIC RESEARCH LABORATORIES, Milwaukee, Wis.
Filed May 4, 1921. Serial No. 147,219. PUBLISHED MARCH 21, 1922.

158,297. A DENTIFRICE—NAMELY, TOOTH POWDER. SCIENTIFIC RESEARCH LABORATORIES, Milwaukee, Wis.
Filed May 4, 1921. Serial No. 147,220. PUBLISHED MARCH 21, 1922.

158,298. CANNED VEGETABLES. THE SEARS AND NICHOLS CANNING CO., Chillicothe, Ohio.
Filed July 29, 1920. Serial No. 135,579. PUBLISHED AUGUST 9, 1921.

158,299. MEDICINAL PREPARATIONS FOR THE TREATMENT OF COLDS, INFLUENZA, AND LA GRIPPE. W. E. SHUIT, INCORPORATED, Passaic, N. J.
Filed January 24, 1922. Serial No. 158,406. PUBLISHED MAY 23, 1922.

158,300. PRINTING INKS. SIGMUND ULLMAN CO., New York, N. Y.
Filed February 1, 1922. Serial No. 158,729. PUBLISHED JUNE 27, 1922.

158,301. CHEMICAL RUST REMOVER. A. C. SINCLARE CO., New York, N. Y.
Filed January 20, 1921. Serial No. 142,537. PUBLISHED JUNE 6, 1922.

158,302. FUDGE. SNIDER & CAZEL, Wilmette, Ill.
Filed May 31, 1919. Serial No. 119,085. PUBLISHED JUNE 6, 1922.

158,303. STEEL MORTISE AND RIM LOCKS. SOCIÉTÉ P. & A. PICARD, Paris, France.
Filed January 28, 1922. Serial No. 158,582. PUBLISHED MAY 30, 1922.

158,304. ANTICORROSIVE CHEMICAL COMPOSITIONS OR COMPOUNDS. SOZOL LIMITED, London, England.
Filed December 23, 1921. Serial No. 157,079. PUBLISHED MAY 23, 1922.

158,305. BATHROOM SHELVING, CUP RACKS, SOAP RACKS, TOWEL RACKS, TOILET-PAPER RACKS, AND GARMENT HOOKS. SUPERIOR BRASS N. C., New York, N. Y.
Filed March 15, 1921. Serial No. 144,788. PUBLISHED MAY 16, 1922.

158,306. FACE CREAMS AND LOTIONS. CARL W. SWEARINGEN, doing business as The Citroline Company, Los Angeles, Calif.
Filed February 14, 1921. Serial No. 148,575. PUBLISHED JUNE 6, 1922.

158,307. WRITING AND PRINTING INKS. J. C. SWEARINGEN INK CO., Pittsburgh, Pa.
Filed January 23, 1920. Serial No. 127,526. PUBLISHED FEBRUARY 1, 1921.

158,308. COMPOUND FOR THE TREATMENT OF BARBERS' ITCH, POISON IVY, DOGWOOD POISON, BLOOD POISON, AND SKIN DISEASE. GEORGE W. TERRY, Greenfield, Mass.
Filed November 1, 1921. Serial No. 154,890. PUBLISHED MAY 16, 1922.

158,309. TOILET PREPARATIONS—VIZ, PERFUME, TOILET CREAM, ROUGE, COMPACT, AND FACE, TOILET, NURSERY, AND TALCUM POWDERS. IDA JANE TETLOW, trading as Henry Tetlow Company, Philadelphia, Pa.
Filed February 8, 1922. Serial No. 159,062. PUBLISHED JUNE 6, 1922.

158,310. ANTILEAK COMPOUND. THE THOMAS COMPANY, Philadelphia, Pa.
Filed February 5, 1921. Serial No. 143,230. PUBLISHED JUNE 6, 1922.

158,311. CERTAIN NAMED ELECTRICAL APPARATUS. UNIVERSAL BATTERY COMPANY, Chicago, Ill.
Filed July 19, 1920. Serial No. 135,181. PUBLISHED MARCH 14, 1922.

158,312. CARBOLIC OINTMENT, EYE SALVE, AND PILE SALVE. VAN VLEET-MANSFIELD DRUG CO., Memphis, Tenn.
Filed October 5, 1920. Serial No. 137,977. PUBLISHED MARCH 21, 1922.

158,313. BACTERICIDE AND ANTISEPTIC PREPARATIONS. VEREINIGTE CHININFABRIKEN ZIMMER & CO. GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Frankfort-on-the-Main, Germany.
Filed September 2, 1921. Serial No. 152,525. PUBLISHED MAY 30, 1922.

158,314. BACTERICIDE AND ANTISEPTIC PREPARATIONS. VEREINIGTE CHININFABRIKEN ZIMMER & CO. GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Frankfort-on-the-Main, Germany.
Filed September 2, 1921. Serial No. 152,526. PUBLISHED MAY 30, 1922.

158,315. LIQUID FOR DISSOLVING AND REMOVING WITHOUT PAIN GALLSTONES FROM THE HUMAN BODY. THE VITAL SANANDO CO., INC., New York, N. Y.
Filed January 4, 1922. Serial No. 157,501. PUBLISHED MAY 30, 1922.

158,316. LIQUID FOR LIVER, STOMACH, AND BOWEL TROUBLES. THE VITAL SANANDO CO., INC., New York, N. Y.
Filed January 4, 1922. Serial No. 157,502. PUBLISHED MAY 30, 1922.

158,317. CHEMICAL PREPARATION FOR APPLICATION UPON THE FACE AND DESIGNED TO REMOVE WRINKLES AND INCREASE THE BLOOD CIRCULATION. WEICHSEL LABORATORIES, Dallas, Tex.
Filed December 7, 1921. Serial No. 156,428. PUBLISHED MAY 30, 1922.

158,318. CERTAIN NAMED JEWELRY AND PRECIOUS METAL WARE. ALPHONSE W. WEINER, INC., New York, N. Y.
Filed June 14, 1921. Serial No. 149,158. PUBLISHED MAY 23, 1922.

158,319. GRAMOPHONE NEEDLES. H. J. WENGLEIN'S NORICA- & HEROLD-WERKE NURNBERG-SCHWABACHER NADELFABRIKEN G. M. B. H., Nuremberg, Germany.
Filed October 11, 1920. Serial No. 138,182. PUBLISHED MAY 9, 1922.

158,320. PIANOS, PLAYER PIANOS, AND PHONOGRAPHS. WEBER BROS. INC., New York, N. Y.
Filed April 16, 1921. Serial No. 146,282. PUBLISHED JUNE 27, 1922.

158,321. CERTAIN NAMED MEDICINAL PREPARATIONS. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed January 27, 1922. Serial No. 158,547. PUBLISHED MAY 30, 1922.

158,322. CARBON REMOVER, WHICH CARBON REMOVER IS A CHEMICAL-FLUID PREPARATION. THOMAS S. WITHERSPOON, doing business as The Spoon Chemical Co., Denver, Colo.
Filed May 10, 1921. Serial No. 147,541. PUBLISHED JUNE 6, 1922.

158,323. CERTAIN NAMED MEDICINAL PREPARATIONS. THE WOMAN'S MUTUAL BENEFIT COMPANY, Joliet, Ill.
Filed October 31, 1921. Serial No. 154,856. PUBLISHED MAY 9, 1922.

158,324. DYES. GEORGE D. WRIGHT CORPORATION, Dover, Del., and New York, N. Y.
Filed February 1, 1922. Serial No. 158,741. PUBLISHED MAY 30, 1922.

158,325. MOUTH WASH. ZINCLOROS CHEMICAL COMPANY, Denver, Colo.
Filed January 23, 1922. Serial No. 158,353. PUBLISHED MAY 23, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

AUGUST 29, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

158,326. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALEXIS WITTE CUTLERY CO., New York and Brooklyn, N. Y. Filed Jan. 18. 1922. Serial No. 158,106.

WITTE

Particular description of goods.—Razors, Scissors, and Hair Clippers.
Claims use since about 1880.

158,327. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALLIS-CHALMERS MANUFACTURING COMPANY, Milwaukee and West Allis, Wis. Filed Feb. 14, 1921. Serial No. 143,527.

ALLIS-CHALMERS

Particular description of goods.—Motor Operated or Propelled Agricultural Machinery, Air Brakes, Air Compressors, Metallurgical Amalgam Appliances, Aspirators (Flour Mill), Ball Mills, Ballast Plants, Band Sawmills (Double, Single, and Telescopic), Band Resaws (Horizontal and Vertical), Barometric Condensers, Bearing Boxes, Belt Tighteners, Blowing Engines, Board Lifters, Bolting-Cloth Cleaners (Mechanical), Bran Packers, Bran and Shorts Dusters, Cant Flippers, Canting Machines, Cement-Making Machinery, Centrifugal Pumps, Chilian Mills, Circular-Saw Mills, Comminuting Bodies, Concentrating Plants (Metallurgical), Converter Plants (Metallurgical), Conveyors, Copper-Refining Machinery, Corliss Engines, Corn Mills, Crushing Plants, Crushing Rolls, Cut-Off Saws, Cyanide Plants, "Diesel" Engines, Dumping Skips, Edging Grinders, Elevators, Mechanically-Actuated Fans, Automatic Feeders, Feed Mills, Feed Screens, Filing-Room Tools, Mechanical Fire-Service Apparatus, Flaking Machines, Flour Bolters, Flour Dressers, Flour Feeders and Mixers, Flour Mills, Flour Packers, Flour Purifiers, Flour Reels, "Francis" Turbines, Gas Engines, Gears, Geared Pumps, Gold and Silver Mills, Granulators (Flour Mill), Gyratory Crushers, High-Duty Pumps, Hoists, Hoisting Cages, "Huntington" Comminuting Mills, Hydraulic Energy-Translating Machinery, Impulse Water Wheels, Jaw Crushers, Jet Condensers, Lath Mills and Bolters, Lead-Refining Machinery, Live Rolls and Drives, Log Jacks, Log Loaders, Log Turners, Lumber Trimmers, Macadam Plants, Mine-Ventilating Machinery, Metallurgical Mixing Pans, Mortar Mills, Oil-Pressure Governors, Ore Buckets, Ore Feeders, Perforated Metals for Separators, Power-Transmission Machinery, Pressure Regulators, Prospecting Mills, Pulleys, Pumping Machinery, Rolls, Roller Mills, Rolling-Mill Engines and Machinery, Rope Sheaves, Rotary Soil Tillers, Mineral Sampling Plants, Sawmill Carriages, Sawmill Edgers, Sawmill Feeds, Sawmill "Niggers," Sawmills, Scalpers, Material-Separating Screens, Screw Pumps, Separating Jigs, Sawmill Set Works, Shaft Couplings, Shaft Hangers, Shafting, Skips, Slashers, Smelting Machinery, Stamps (Atmospheric, Gravity and Steam), Steam Engines, Steam Feeds, Stock Lifters, Sugar Machinery, Surface Condensers, Timber-Preserving Machinery, Timber-Treating Machinery, Traction Engines, Transfers for Logs and Lumber, Tube Mills, Turbines (Steam and Gas and Hydraulic), Vanners, Zinc-Refining Machinery.
Claims use since November, 1903.

158,328. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN NUMBERING MACHINE COMPANY, New York, N. Y. Filed Feb. 1, 1922. Serial No. 158,699.

AMERICAN

Particular description of goods.—Numbering Machines.
Claims use since April, 1908.

158,329. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARCADIA FOOD COMPANY, New York, N. Y. Filed Jan. 21, 1922. Serial No. 158,210.



Particular description of goods.—Jelly Powders.
Claims use since January, 1910.

158,330. (CLASS 20. LINOLEUM AND OILED CLOTH.) ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Filed Mar. 18, 1922. Serial No. 160,845.

ARMSTRONG'S

Particular description of goods.—Linoleum, Linoleum-Cork Carpet, Cork Carpet and Floor Covering Composed Mainly of Cork, Cork and Oil, Linoleum or Other Material Containing Cork or Wood Pulp, Prepared Floor Coverings, Floor and Wall Coverings of Waterproofed or Coated Fibrous or Textile Materials, and Waterproof Composition Floor Covering Similar in Nature to Linoleum.
Claims use since 1908.

158,331. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) BANE STOCK, New Haven, Conn. Filed Apr. 6, 1921. Serial No. 145,798.

THE HOUSEHOLD GRANITE TUB

Particular description of goods.—Wash Trays.
Claims use since Mar. 1, 1907.

158,332. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BARCALO MANUFACTURING COMPANY, Buffalo, N. Y. Filed Mar. 2, 1921. Serial No. 144,216.

BARCO B BUFFALO

Particular description of goods.—Wrenches, Pliers, and Socket-Wrench Sets.
Claims use since Jan. 1, 1919.

158,333. (CLASS 45. BEVERAGES, NONALCOHOLIC.) MAURICE M. BARON, Monterey, N. L., Mex. Filed Feb. 23, 1922. Serial No. 159,688.



Particular description of goods.—Sirups for Making Nonalcoholic Maltless Soft Drinks Having Antifever Properties.
Claims use since July 1, 1920.

158,334. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LAWRENCE O. BEARD, Lancaster, Pa. Filed June 13, 1921. Serial No. 149,035.

BEARD

Particular description of goods.—Reamers, Pistons, and Piston Pins.
Claims use since June 1, 1921.

158,335. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BRUNER WOOLEN CO., INC., New York, N. Y. Filed Nov. 3, 1921. Serial No. 154,958.

"Columbian"

Particular description of goods.—Serge in the Piece.
Claims use since August, 1918.

158,336. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CARD-MARTIN CO., Jellico, Tenn. Filed Apr. 25, 1922. Serial No. 162,871.

PEP

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages, Sold as Soft Drinks and Sirups for making the Same.
Claims use since Mar. 1, 1921.

158,337. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. J. CHRISTOPHER COMPANY, Los Angeles, Calif. Filed Oct. 20, 1921. Serial No. 154,351.

"Your Favorite Dish"

Particular description of goods.—Ice Cream.
Claims use since Feb. 1, 1921.

158,338. (CLASS 38. PRINTS AND PUBLICATIONS.) DEFIANCE MANUFACTURING COMPANY, New York, N. Y. Filed Apr. 4, 1922. Serial No. 161,720.

DESKAID

Particular description of goods.—Calendars.
Claims use since 1914.

158,339. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIS H. DIEFENDORF, Syracuse, N. Y. Filed Aug. 8, 1921. Serial No. 151,585.

DIEFENDORF

Particular description of goods.—Gears.
Claims use since January, 1920.

158,340. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EFFICIENCY DEVICE CORPORATION, Long Island City, N. Y. Filed Sept. 27, 1921. Serial No. 153,393.

STIX-ON
TRADE MARK
SWRENCH

Particular description of goods.—Machine Wrenches.
Claims use since early in April, 1921.

158,341. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FELIX SPATOLA & SONS, Philadelphia, Pa. Filed Jan. 14, 1922. Serial No. 157,964.

SPATOLA

Particular description of goods.—Canned Fruits and Vegetables, Salad Oil, Cocoa, and Shortening.
Claims use since Oct. 1, 1911.

158,342. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FLANNERY BOLT COMPANY, a Corporation of Delaware, Wilmington, Del., and Pittsburgh, Pa. Filed May 26, 1921. Serial No. 148,268.

"F. B. C." WELDED FLEXIBLE STAY-BOLT

Particular description of goods.—Boiler Stay Bolts; Track, Frog, and Switch Bolts and Nuts; and Semi-rigid and Flexible Stay Bolts.
Claims use since February, 1919.

158,343. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FOLLANSBEE BROTHERS COMPANY, Pittsburgh, Pa. Filed Apr. 6, 1922. Serial No. 161,828.

FOLLANSBEE POLISHED

Particular description of goods.—Ferrous Metal Plates and Sheets.
Claims use since Apr. 10, 1918.

158,344. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FOLLANSBEE BROTHERS COMPANY, Pittsburgh, Pa. Filed Apr. 6, 1922. Serial No. 161,829.

FOLLANSBEE BLUE

Particular description of goods.—Ferrous Metal Plates and Sheets.
Claims use since Apr. 10, 1918.

158,345. (CLASS 32. FURNITURE AND UPHOLSTERY.) LOUIS R. GANS, Brooklyn, N. Y. Filed Feb. 2, 1922. Serial No. 158,768.

PAY CASH
SAVE HALF

Particular description of goods.—Furniture and Upholstery—Namely, Beds and Cribs, Springs, Mattresses, Pillows, Bolster Rolls, Divans, Costumers (Brass, Iron, and Wood), Bassinettes, Chiffoniers, Dressing Tables, Rockers, Dressers, Night Tables, Somnoes, Buffets, China Closets, Tea Wagons, Couches, Living-Room and Parlor Suites, Pedestals, Tabourettes, Davenettes, Telephone Stands, Bookcases, Book Racks, Sewing Cabinets, Reed Furniture, Cedar Chests, Desks, Stools, Kitchen Cabinets, Kitchen Tables, and Household and Porch Furniture—Namely, Benches, Chairs, Tables, and Wooden Umbrella Stands.
Claims use since July 10, 1915.

158,346. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed May 4, 1921. Serial No. 147,195.

BOSTONIAN

Particular description of goods.—Safety Razors.
Claims use since Apr. 26, 1921.

158,347. (CLASS 5. ADHESIVES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Sept. 22, 1920. Serial No. 137,471.

BEST IN THE LONG RUN

Particular description of goods.—Rubber Cement, Wood-Rim Cement, Vulcanizing Cement, Unvulcanized Repair Gum and Repair Outfits, Comprising a Tube of Rubber Cement.
Claims use since about 1913.

158,348. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GRASSELLI WESTERN SMELTING & REFINING COMPANY, Chicago, Ill. Filed Nov. 17, 1921. Serial No. 155,491.

FAULTLESS

Particular description of goods.—Solder.
Claims use since June 1, 1920.

158,349. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. J. HANSEN, Fall River, Wis. Filed Mar. 21, 1921. Serial No. 145,019.

WONDER OIL

Particular description of goods.—A Certain Named Medicinal Preparation for Nervous Headache; Neuralgia of the Head or Face; Toothache; Earache; Pleurisy; Crick of the Neck, Back or Side; Neuralgia of the Heart, Stomach, or Other Parts; Sore Throat; Diphtheria; Croup; Cholera Morbus; Congestion; Chills; Catarrh; Lumbago; Sprains; and Stomach and Bowel Pains.
Claims use since about 1904.

158,350. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) KNICKERBOCKER CASE COMPANY, Chicago, Ill. Filed Apr. 23, 1921. Serial No. 146,634.



Particular description of goods.—Cases and Bags Made of Leather, Fiber, and Other Suitable Materials Adapted for Holding Merchandise Samples, Instruments, and Tools.
Claims use since Mar. 16, 1921.

158,351. (CLASS 38. PRINTS AND PUBLICATIONS.) PATRICK HENRY MCCABE, Chicago, Ill. Filed Oct. 15, 1921. Serial No. 154,152.



Particular description of goods.—Booklet or House Organ.
Claims use since June 7, 1921.

158,352. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Mar. 31, 1922. Serial No. 161,542.

KENILWORTH STUDIOS

Particular description of goods.—Electric Lamps.
Claims use since 1917.

158,353. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEMPHIS PACKING CORPORATION, Memphis, Tenn. Filed Mar. 18, 1921. Serial No. 144,930.



Particular description of goods.—Smoked Meats and Lard.
Claims use since Mar. 1, 1921.

158,354. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOWARD HERMAN MENTZ, D. D. S., Gustine, Calif. Filed Feb. 20, 1922. Serial No. 159,578.

Gumeze

Particular description of goods.—Mouth Washes, Tooth Powder and Paste.
Claims use since Jan. 1, 1921.

158,355. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX MILLER, Brooklyn, N. Y. Filed Jan. 21, 1922. Serial No. 158,241.

Scalp Rub

Particular description of goods.—Hair Tonics, Shampoo, and Hair Pomade.
Claims use since Dec. 15, 1920.

158,356. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE NATIONAL STORE SPECIALTY COMPANY, Bareville, Pa. Filed Feb. 4, 1922. Serial No. 158,885.

PENNSYLVANIA

Particular description of goods.—Computing Scales.
Claims use since 1913.

158,357. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, Los Angeles, Calif. Filed Jan. 14, 1922. Serial No. 157,947.

LA CANADA

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1916.

158,358. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WALTER C. PALMER, doing business as W. R. Palmer & Co., Cincinnati, Ohio. Filed June 24, 1922. Serial No. 166,013.

The Best

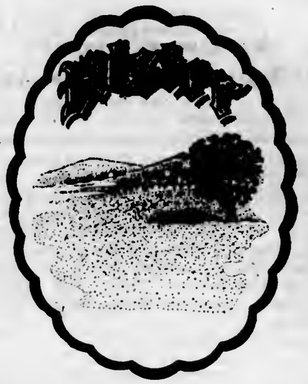
Particular description of goods.—Mops.
Claims use since May 1, 1908.

158,359. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PARA ELECTRIC CO. INC., New York, N. Y. Filed June 10, 1922. Serial No. 165,302.

Parr

Particular description of goods.—Friction Tape and Splicing Compound.
Claims use since July 1, 1919.

158,360. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PAULINE MILLS, INC., Kings Mountain, N. C. Filed Apr. 20, 1922. Serial No. 162,637.



The lining shown in the drawing is for the purpose of shading only.
Particular description of goods.—Mercerized Cotton Damasks in the Piece.
Claims use since 1916.

158,361. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PAULINE MILLS, INC., Kings Mountain, N. C. Filed Apr. 20, 1922. Serial No. 162,638.



The lining shown in the drawing is for the purpose of shading only.
Particular description of goods.—Mercerized Cotton Damasks in the Piece.
Claims use since 1916.

158,362. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PERCY REEVES, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 144,153.

MOVY-DOLS

Particular description of goods.—Cut-Out Dolls.
Claims use since Dec. 20, 1920.

158,363. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) B. B. SPECIALTY CO., Pittsburgh, Pa. Filed Aug. 25, 1921. Serial No. 152,162.

DOCTORS OF PLUMBING
PAY YOURSELF MONEY
BE-YOUR-OWN-PLUMBER

Particular description of goods.—Closet Bowls; Closet Seats; Closet Tanks; Enamel Hopper Closets; Bathtubs; Enameled Urinals; Lead Goods—Namely, Lead Waste Traps as Used in Plumbing; Portable Showers; Stationary Showers; Shower Heads; Curb Boxes—Namely, for Shutting Off Water at Curbs; Roof Flanges for Ventilating Pipes; Enameled Sinks; Vitreous China Urinals; Vitreous China Basins; Laundry Trays; Cement Laundry Trays; Enameled Laundry Trays; Soil Pipe; Soil-Pipe Fittings; Lawn Sprinklers; Boiler Stands, and Enameled Drain Boards.
Claims use since 1919.

158,364. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JAMES S. TORRENCE, San Francisco, Calif. Filed Nov. 7, 1921. Serial No. 155,129.

TWIN GRIP

Particular description of goods.—Shears and Scissors.
Claims use since Oct. 1, 1914.

158,365. (CLASS 17. TOBACCO PRODUCTS.) THE TUCKETT TOBACCO COMPANY, LIMITED, Hamilton, Canada. Filed Jan. 31, 1921. Serial No. 143,020.

TUCKETT'S CLUB SPECIAL

Particular description of goods.—Cigars.
Claims use since Dec. 12, 1901.

158,366. (CLASS 17. TOBACCO PRODUCTS.) THE TUCKETT TOBACCO COMPANY, LIMITED, Hamilton, London, and Montreal, Canada. Filed Mar. 5, 1921. Serial No. 144,361.

TUCKETT'S PREFERRED

Particular description of goods.—Cigars, Cigarettes, Smoking and Chewing Tobacco.
Claims use since May 23, 1913.

158,367. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE UNITED FIG & DATE CO., Chicago, Ill. Filed Dec. 19, 1921. Serial No. 156,940.

O'-SO-KRISP

Particular description of goods.—Salted Nuts and Nut Lunch.
Claims use since June 14, 1921.

158,368. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) BURPEE E. VINER, Hartford, Conn. Filed July 13, 1922. Serial No. 166,861.

Superior

Particular description of goods.—Wet Floor Mops, Dish Mops, Stove Dusters, Stove Daubers, Bowl Brushes, Scouring Brushes, Sink Brushes, Dish-Washing Brushes, Window Brushes, Ice-Chest Pipe Brushes, Stove Brushes, Clothes Brushes, Utility Brushes, Glass Brushes, Wall Brushes, Shampoo Brushes, Flesh Brushes, Hand Brushes, Massage Brushes, Bottle Brushes, Tooth Brushes, Pastry Brushes, Manicure Brushes, Bath-Spray Brushes, Hat Brushes, Crumb Brushes, Hair Brushes, Fender or Mud Guard Brushes, Spoke and Wheel Brushes, Pointed-Spoke Brushes, and 54" and 72" Mop Handles.
Claims use since Apr. 1, 1921.

158,369. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WERNER, Milwaukee, Wis. Filed Feb. 11, 1920. Serial No. 128,287.

TASTE AND COMPARE

Particular description of goods.—Candy.
Claims use since June 1, 1919.

158,370. (CLASS 38. PRINTS AND PUBLICATIONS.) WELDON, WILLIAMS & LICK, Fort Smith, Ark. Filed Feb. 8, 1922. Serial No. 159,070.

ONE-HAND BOOK STRIP TICKET

Particular description of goods.—Theater Tickets.
Claims use since May 10, 1921.

TRADE-MARK REGISTRATIONS RENEWED.

19,838. HAMS AND BACON. Registered July 7, 1891. IMPERIAL PACKING COMPANY, Canajoharie and New York, N. Y.; Beech-Nut Packing Company, a Corporation of New York, assignee. Renewed July 7, 1921.

21,438. LARD AND ITS SUBSTITUTES. Registered July 12, 1892. THE W. J. WILCOX LARD AND REFINING COMPANY, Guttenberg, N. J., and New York, N. Y.; The N. K. Fairbank Company, a Corporation of New Jersey, assignee. Renewed July 12, 1922.

21,439. LARD AND ITS SUBSTITUTES. Registered July 12, 1892. THE W. J. WILCOX LARD AND REFINING COMPANY, Guttenberg, N. J., and New York, N. Y.; The N. K. Fairbank Company, a Corporation of New Jersey, assignee. Renewed July 12, 1922.

21,440. LARD AND ITS SUBSTITUTES. Registered July 12, 1892. THE W. J. WILCOX LARD AND REFINING COMPANY, Guttenberg, N. J., and New York, N. Y.; The N. K. Fairbank Company, a Corporation of New Jersey, assignee. Renewed July 12, 1922.

21,441. LARD AND ITS SUBSTITUTES. Registered July 12, 1892. THE W. J. WILCOX LARD AND REFINING COMPANY, Guttenberg, N. J., and New York, N. Y.; The N. K. Fairbank Company, a Corporation of New Jersey, assignee. Renewed July 12, 1922.

21,603. LARD AND ITS SUBSTITUTES. Registered August 9, 1892. THE W. J. WILCOX LARD AND REFINING COMPANY, Guttenberg, N. J., and New York, N. Y.; The N. K. Fairbank Company, a Corporation of New Jersey, assignee. Renewed August 9, 1922.

21,671. LAUNDRY SOAP. Registered August 23, 1892. BENJAMIN BROOKE & COMPANY, Philadelphia, Pa., Lever Brothers Company, a Corporation of Maine, assignee. Renewed August 23, 1922.

21,675. LARD AND ITS SUBSTITUTES. Registered August 23, 1892. THE W. J. WILCOX LARD AND REFINING COMPANY, Guttenberg, N. J., and New York, N. Y.; The N. K. Fairbank Company, a Corporation of New Jersey, assignee. Renewed August 23, 1922.

21,866. ANIMAL SHOES. Registered October 18, 1892. BAYDEN HORSE SHOE COMPANY, Catasauqua, Pa.; Manufacturers Iron & Steel Company, a Corporation of New Jersey, assignee. Renewed October 18, 1922.

21,887. PAINTERS' SMALT. Registered October 25, 1892. WEBSTER C. ESTES, New York, N. Y.; Clifford W. Estes, Gorham, N. H., assignee. Renewed October 25, 1922.

21,918. SOAP. Registered November 1, 1892. WM. GOSSAGE & SONS, Widnes and Liverpool, England; William Gossage & Sons, Limited, Widnes, Lancashire, England, assignee. Renewed November 1, 1922.

21,921. SOAP. Registered November 1, 1892. WM. GOSSAGE & SONS, Widnes and Liverpool, England; William Gossage & Sons, Limited, Widnes, Lancashire, England, assignee. Renewed November 1, 1922.

21,980. LARD AND ITS SUBSTITUTES. Registered November 15, 1892. THE W. J. WILCOX LARD AND REFINING COMPANY, Guttenberg, N. J., and New York, N. Y.; The N. K. Fairbank Company, a Corporation of New Jersey, assignee. Renewed November 15, 1922.

22,010. PLAYING CARDS. Registered November 22, 1892. ANDREW DOUGHERTY, New York, N. Y.; A. Dougherty, a Corporation of New York, assignee. Renewed November 22, 1922.

22,066. WHITE LEAD. Registered November 29, 1892. JACOBS & MCCAFFERTY, Brooklyn, N. Y.; James A. McCafferty & Sons Manufacturing Company, Inc., a Corporation of New York, assignee. Renewed November 29, 1922.

22,074. MACHINERY FOR PASTING AND FOLDING ENVELOPES AND MAKING PAPER BOXES. Registered November 29, 1892. LESTER & WASLEY, Norwich, Conn.; The Lester & Wasley Company, Incorporated, assignee. Renewed November 29, 1922.

22,121. LINIMENT AND OINTMENT. Registered December 6, 1892. FREDERICK P. FOLTZ, Abingdon, Ill.; John T. Dickinson, Abingdon, Ill., and Francis C. Dickinson, Galesburg, Ill., assignees. Renewed December 6, 1922.

22,201. LAUNDRY AND TOILET SOAP. Registered December 20, 1892. WM. GOSSAGE & SONS, Widnes and Liverpool, England; William Gossage & Sons, Limited, Widnes, Lancashire, England. Renewed December 20, 1922.

22,202. LAUNDRY AND TOILET SOAP. Registered December 20, 1892. WM. GOSSAGE & SONS, Widnes and Liverpool, England; William Gossage & Sons, Limited, Widnes, Lancashire, England, assignee. Renewed December 20, 1922.

TRADE-MARK REGISTRATIONS CANCELED.

62,839. BUILDING BLOCKS AND TILES. INTERLOCKING STONE CO., Oakland, Calif. Registered May 28, 1907. Canceled June 14, 1922.

137,758. COTTON PIECE GOODS. MILLS AND GIBBS CORPORATION, New York, N. Y. Registered November 30, 1920. Canceled June 19, 1922.

144,737. SOFT-DRINK BEVERAGE. DANCIGER BROTHERS, Kansas City, Mo. Registered July 19, 1921. Canceled June 9, 1922.

LABELS

REGISTERED AUGUST 29, 1922.

24,902.—*Title:* "ADVANCE CORK FELTBAK." (For Cartons Containing Transmission Linings.) ADVANCE AUTOMOBILE ACCESSORIES CORP., Chicago, Ill. Filed June 23, 1922.

24,903.—*Title:* "DANDY HANDY." (For Automobile Antiskid Chains and Containers Therefor.) STEPHEN A. AKINS, Kansas City, Mo. Filed July 3, 1922.

24,904.—*Title:* "B. PAUL'S HENNA." (For Hair Dye.) PAUL BALME, doing business as B. Paul, New York, N. Y. Filed July 21, 1922.

24,905.—*Title:* "VICTORIA BROWN." (For Calf Leather.) BARNET LEATHER CO., INC., New York, N. Y. Filed July 24, 1922.

24,906.—*Title:* "BARRON'S SULPHIRON." (For Bottles and Packages of Mineralized Water.) PERCY L. BARRON, Los Angeles, Calif. Filed August 10, 1920.

24,907.—*Title:* "CROWN COLORING & CHEMICAL CO." (For Liquid Paints for Incandescent Lamps.) MICHAEL BLUMBERG, doing business as the Crown Coloring & Chemical Co., New York, N. Y. Filed May 11, 1922.

24,908.—*Title:* "PURE GOLD BRAND CREAMERY BUTTER." (For Cartons Serving as a Container for Butter.) CAMPBELL PAPER BOX COMPANY, South Bend, Ind. Filed August 1, 1921.

24,909.—*Title:* "CHALET EGG-MILK CHOCOLATE." (For Packages of Chocolate.) CHALET CHOCOLATE CORPORATION, New York, N. Y. Filed August 3, 1922.

24,910.—*Title:* "CALIFORNIA CITRUS SOAP POWDER." (For Soap Powder and Washing Powder.) CITRUS SOAP COMPANY OF CALIFORNIA, San Diego, Calif. Filed July 18, 1922.

24,911.—*Title:* "WEATHERLY." (For Ice Cream.) CRYSTAL ICE & COLD STORAGE CO., Portland, Oreg. Filed July 17, 1922.

24,912.—*Title:* "PETROLAGAR." (For a Remedy for Constipation.) DESHELL LABORATORIES INC., Los Angeles, Calif. Filed July 24, 1922.

24,913.—*Title:* "FREEZ O POP." (For Confections as a Wrapper.) FAR ROCKAWAY CANDY COMPANY, Far Rockaway, N. Y. Filed July 17, 1922.

24,914.—*Title:* "MASTER SEAL 2 IN 1." (For Auto Tube Patch Outfits.) FORT HARRISON SALES CO., Terre Haute, Ind. Filed June 26, 1922.

24,915.—*Title:* "LOLA REAL HAIR NET." (For Hair Nets.) S. GLEMBY'S SONS CO. INC., New York, N. Y. Filed July 20, 1922.

24,916.—*Title:* "AUDREY HAIR NET." (For Hair Nets.) S. GLEMBY'S SONS CO. INC., New York, N. Y. Filed July 20, 1922.

24,917.—*Title:* "MYRO." (For Hair Nets.) S. GLEMBY'S SONS CO. INC., New York, N. Y. Filed July 20, 1922.

24,918.—*Title:* "MELTO." (For Packages Containing Reducing Cream.) BLANCHE K. HARTZELL, Youngstown, Ohio. Filed July 11, 1922.

24,919.—*Title:* "CALCIDENT." (For Tooth Paste.) JAMES A. HEARN & SON, INC., New York, N. Y. Filed June 14, 1922.

24,920.—*Title:* "$1000.00 GUARANTEED CONTENTO." (For a Carton for Inclosing a Remedy for the Eradication of Head Lice, Body Lice, Crab Lice, and Other Body Vermin.) B. HELLER & COMPANY, Chicago, Ill. Filed July 19, 1922.

24,921.—*Title:* "$1000.00 GUARANTEED SILVER POLISH." (For Cans Containing $1000.00 Guaranteed Silver Polish, a Dry-Powder Polish.) B. HELLER & COMPANY, Chicago, Ill. Filed July 19, 1922.

24,922.—*Title:* "$1000.00 GUARANTEED OZO WASTE PIPE OPENER." (For Receptacles Containing $1000.00 Guaranteed Ozo Waste-Pipe Opener, a Preparation for Opening Stopped-Up Pipes.) B. HELLER & COMPANY, Chicago, Ill. Filed July 19, 1922.

24,923.—*Title:* "H & H BUTTER-KIST POP CORN." (For Pop-Corn Cartons.) HOLCOMB & HOKE MANUFACTURING CO., Indianapolis, Ind. Filed July 14, 1922.

24,924.—*Title:* "OWL BRAND MALT SYRUP." (For Glass Bottles, Cans, Tins, and Any Other Receptacles Containing Said Malt Sirup.) ADOLPH HOLLIS, doing business under the name of Hollis Malt Products Supply, Brooklyn, N. Y. Filed June 19, 1922.

24,925.—*Title:* "(KA-ZU)." (For Extracts, Sirups, and Beverages.) STEPHEN M. HOYE, doing business under the name of Ka-Zu Beverage Co. Inc., New York and Brooklyn, N. Y. Filed July 31, 1922.

24,926.—*Title:* "SUN TEX." (For Outdoor Apparel.) HYMAN DIRECTOR, Los Angeles, Calif. Filed July 26, 1922.

24,927.—*Title:* "HOLLYWOOD." (For Mayonnaise.) ADOLPH G. KADLEC, Long Branch, N. J. Filed July 31, 1922.

24,928.—*Title:* "KAEMPFER'S CANARY HIGHBALL." (For a Bird Food and Tonic.) KAEMPFER'S INCORPORATED, Chicago, Ill. Filed July 26, 1922.

24,929.—*Title:* "KERN'S SUGAR CURED SLICED BACON." (For Sliced Bacon.) GEORGE KERN, INC., New York, N. Y. Filed August 3, 1922.

24,930.—*Title:* "ORANGE BLOSSOM MARMALADE." (For Orange Marmalade.) LAKE YALE ORANGE COMPANY, Gainesville, Fla. Filed June 8, 1922.

24,931.—*Title:* "FRALINGER'S ORIGINAL SALT WATER TAFFY." (For Boxes Containing Salt-Water Taffy.) THEO. J. LAPRES, INC., Atlantic City, N. J. Filed July 19, 1922.

24,932.—*Title:* "LAPRES' MIDGET SALT WATER GEMS." (For Boxes Containing Miniature Salt-Water Taffy.) THEO. J. LAPRES, INC., Atlantic City, N. J. Filed July 19, 1922.

24,933.—*Title:* "HERON CREPE TISSUE." (For Toilet-Paper Rolls.) LINTON AND COMPANY, Chicago, Ill. Filed July 31, 1922.

24,934.—*Title:* "YAP CREPE TISSUE." (For Toilet-Paper Rolls.) LINTON AND COMPANY, Chicago, Ill. Filed July 31, 1922.

24,935.—*Title:* "FRECKLES." (For a Popped-Corn and Nut Confection.) THE LOUISVILLE COFFEE COMPANY, Louisville, Ky. Filed July 18, 1922.

24,936.—*Title:* "C B HIGH GRADE SMOKING MIXTURE." (For Smoking Tobacco.) LOVELL-BUFFINGTON TOBACCO CO., Covington, Ky. Filed May 22, 1922.

24,937.—*Title:* "TILT." (For a Game for Children.) EDWARD MARSH, Washington, D. C. Filed March 8, 1922.

24,938.—*Title:* "CHAMPAGNE." (For Cantaloupes.) SIDNEY MCHARG, Calexico, Calif. Filed July 26, 1922.

24,939.—*Title:* "YELLOW CAB." (For Cigars.) McKee-Marks Cigar Co., Ottumwa, Iowa. Filed July 24, 1922.

24,940.—*Title:* "C. O. WELLS COUNTRY CLUB BRAND." (For Cartons Containing Butter.) Menasha Printing and Carton Company, Menasha, Wis., assignor to The Wells-Chief Creamery Co., Crestline, Ohio. Filed July 19, 1922.

24,941.—*Title:* "CLIMAX." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company, Menasha, Wis., assignor to Climax Dairy Co., Denver, Colo. Filed July 19, 1922.

24,942.—*Title:* "PALMAS ALTAS GOLDEN SHEAF." (For Cartons Containing Butter.) Menasha Printing and Carton Company, Menasha, Wis., assignor to Michigan Butter & Egg Co., Lansing, Mich. Filed July 19, 1922.

24,943.—*Title:* "CHERRIES IN CORDIAL." (For Boxes Containing Chocolate-Covered Cherries in Cordial.) Milwaukee Paper Box Company, Milwaukee, Wis. Filed July 20, 1922.

24,944.—*Title:* "SUWANNEE." (For Sirup.) L. M. Mizell, doing business as Mizell-Evans Syrup Co. and Mizell-Evans Co., Live Oak, Fla. Filed July 15, 1922.

24,945.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,946.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,947.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,948.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,949.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,950.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,951.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,952.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,953.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,954.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,955.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,956.—*Title:* "MI-LADY A REAL HAIR NET." (For Hair Nets.) Morris, Mann & Reilly, Inc., Chicago, Ill. Filed July 31, 1922.

24,957.—*Title:* "VITAMIN." (For Whole-Wheat Flour.) New Richmond Roller Mills Co., New Richmond, Wis. Filed July 14, 1922.

24,958.—*Title:* "'WISCONSIN FARMS' BRAND EVAPORATED MILK." (For Cans Containing Unsweetened Evaporated Milk.) Pleasant Valley Farms and Morey Condensery Company, North Prairie, Wis. Filed July 15, 1922.

24,959.—*Title:* "GUERNSEY BRAND EVAPORATED MILK." (For Cans Containing Unsweetened Evaporated Milk.) Pleasant Valley Farms and Morey Condensery Company, North Prairie, Wis. Filed July 15, 1922.

24,960.—*Title:* "'PLEASANT VALLEY FARMS' BRAND EVAPORATED MILK." (For Cans Containing Unsweetened Evaporated Milk.) Pleasant Valley Farms and Morey Condensery Company, North Prairie, Wis. Filed July 15, 1922.

24,961.—*Title:* "DR. PRICE'S PURE PAPRIKA." (For Containers for Paprika.) Price Flavoring Extract Company, Chicago, Ill. Filed July 25, 1922.

24,962.—*Title:* "DR. PRICE'S PURE GROUND BLACK PEPPER." (For Containers for Black Pepper.) Price Flavoring Extract Company, Chicago, Ill. Filed July 25, 1922.

24,963.—*Title:* "TRILBY." (For Boxes and Cans Containing Cigars.) The Reading Cigar Co. Inc., Reading, Pa. Filed July 22, 1922.

24,964.—*Title:* "BRANT LOAD." (For Loaded Shot Shells.) Remington Arms Company, Inc., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. Filed July 27, 1922.

24,965.—*Title:* "DUCK LOAD." (For Loaded Shot Shells.) Remington Arms Company, Inc., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. Filed July 27, 1922.

24,966.—*Title:* "GOOSE LOAD." (For Loaded Shot Shells.) Remington Arms Company, Inc., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. Filed July 27, 1922.

24,967.—*Title:* "SQUIRREL LOAD." (For Loaded Shot Shells.) Remington Arms Company, Inc., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. Filed July 27, 1922.

24,968.—*Title:* "HEAVY DUCK LOAD." (For Loaded Shot Shells.) Remington Arms Company, Inc., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. Filed July 27, 1922.

24,969.—*Title:* "LADY WEAR." (For Hair Nets.) Schneider, Battinus & Simon, Chicago, Ill. Filed June 19, 1922.

24,970.—*Title:* "SCOTTISSUE TOWELS." (For Paper Towels.) Scott Paper Company, Chester, Pa. Filed July 28, 1922.

24,971.—*Title:* "SCOTTISSUE-TOWEL HOLDER NO. 03." (For Paper Towels.) Scott Paper Company, Chester, Pa. Filed July 28, 1922.

24,972.—*Title:* "DON DOMO." (For Boxes and Cans Containing Cigars.) Silver Eagle Cigar Factory, Los Angeles, Calif. Filed July 22, 1922.

24,973.—*Title:* "BAYJELLA." (For Medicinal Beautifier Salve for External Use.) Smith-Mills Manufacturing Company, Billings, Mont. Filed June 9, 1922.

24,974.—*Title:* "VEGETINE." (For a Stomach Relief Remedy.) Emil E. Steiner, Glendale, Calif. Filed February 11, 1922.

24,975.—*Title:* "BROWNIE." (For Bread.) Swander Baking Company, Rapid City, S. Dak. Filed July 13, 1922.

24,976.—*Title:* "TOOTSIE WINTERGREEN." (For Candy Mints with Wintergreen Flavor.) The Sweets Company of America, Inc., Richmond, Va., and New York, N. Y. Filed July 20, 1922.

24,977.—*Title:* "TOOTSIE PEPPERMINT." (For Candy Mints Flavored with Peppermint.) The Sweets Company of America, Inc., Richmond, Va., and New York, N. Y. Filed July 20, 1922.

24,978.—*Title:* "TRUE SHAPE." (For Hosiery for Men.) True Shape Hosiery Co., Philadelphia, Pa. Filed July 24, 1922.

24,979.—*Title:* "TRUE SHAPE." (For Hosiery for Ladies.) True Shape Hosiery Co., Philadelphia, Pa. Filed July 24, 1922.

24,980.—*Title:* "TRUE SHAPE." (For Hosiery for Men.) True Shape Hosiery Co., Philadelphia, Pa. Filed July 24, 1922.

24,981.—*Title:* "TRUE SHAPE." (For Hosiery for Ladies.) True Shape Hosiery Co., Philadelphia, Pa. Filed July 24, 1922.

24,982.—*Title:* "WHITE SULPHUR SPRINGS WATER." (For Mineral Water.) White Sulphur Springs, Inc., White Sulphur Springs, W. Va. Filed July 12, 1922.

24,983.—*Title:* "VISIBLE." (For Canned Apricots.) George Wills and Sons, Ltd., London, England, and San Francisco, Calif. Filed May 11, 1922.

PRINTS

REGISTERED AUGUST 29, 1922.

6,272.—*Title:* "FYREDROP." (For Advertising Purposes for Gasoline.) W. H. BARBER COMPANY, Minneapolis, Minn. Filed July 13, 1922.

6,273.—*Title:* "CHANNELL FENCE COMPANY, INC." (For Advertising Purposes for a Combination Wood and Wire Fence.) CHANNELL FENCE COMPANY, INC., Lake Charles, La. Filed April 6, 1921.

6,274.—*Title:* "STAYS NEAT." (For Advertising Purposes for Mattresses.) LOUIS I. COHN, doing business as Stays Neat Mattress Company, Philadelphia, Pa. Filed August 1, 1922.

6,275.—*Title:* "'POINTEX.'" (For Advertising Purposes for Hosiery.) EMERY & BEERS COMPANY, INC., New York, N. Y. Filed July 29, 1922.

6,276.—*Title:* "STANDING FISHERMAN." (For Advertising Purposes for Fishing Tackle.) THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed June 9, 1922.

6,277.—*Title:* "KEPT CLEAN WITH GOLD DUST." (For Advertising Purposes for Gold Dust Washing Powder.) THE N. K. FAIRBANK COMPANY, New York, N. Y. Filed July 31, 1922.

6,278.—*Title:* "KEPT CLEAN WITH GOLD DUST." (For Advertising Purposes for Gold Dust Washing Powder.) THE N. K. FAIRBANK COMPANY, New York, N. Y. Filed July 31, 1922.

6,279.—*Title:* "HANDY HANSON." (For Advertising Purposes for Scales.) HANSON BROTHERS SCALE COMPANY, Chicago, Ill. Filed July 27, 1922.

6,280.—*Title:* "GREAT LOAF." (For Advertising Purposes for Bread.) HATCH ADVERTISING AND SALES SERVICE, Troy, N. Y. Filed May 27, 1922.

6,281.—*Title:* "A HAYNES 75 FOR EVERY MOTORING TRAVEL REQUIREMENT." (For Advertising Purposes for Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed July 24, 1922.

6,282.—*Title:* "HEARN BABY CASTILE." (For Advertising Purposes for Soap.) JAMES A. HEARN & SON, INC., New York, N. Y. Filed June 14, 1922.

6,283.—*Title:* "PETH'S CANDY BARS." (For Advertising Purposes for Candy Bars.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 17, 1922.

6,284.—*Title:* "TECKEMEYER'S MENTHOL HOARHOUND." (For Advertising Purposes for Menthol-Horehound Drops.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 22, 1922.

6,285.—*Title:* "WOULD YOUR HUSBAND MARRY YOU AGAIN?" (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed April 7, 1921.

6,286.—*Title:* "MOMENTS WHICH COUNT." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed July 15, 1922.

6,287.—*Title:* "WHY FADE AT 30?" (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed July 15, 1922.

6,288.—*Title:* "PLUMB DOUBLE LIFE." (For Advertising Purposes for Files.) FAYETTE R. PLUMB, INC., Philadelphia, Pa. Filed June 14, 1922.

6,289.—*Title:* "THE COMPLETE DORMANT SPRAY." (For Advertising Purposes for Scalecide for the Protection of Trees Against Insects and Fungous Growths.) B. G. PRATT COMPANY, New York, N. Y. Filed July 11, 1922.

6,290.—*Title:* "BEAUTY WINS." (For Advertising Purposes for Coconut-Oil Shampoo.) THE R. L. WATKINS COMPANY, Cleveland, Ohio. Filed July 17, 1922.

6,291.—*Title:* "ALWAYS CHARMING!" (For Advertising Purposes for Coconut-Oil Shampoo.) THE R. L. WATKINS COMPANY, Cleveland, Ohio. Filed July 17, 1922.

6,292.—*Title:* "A MAN'S STORY TO MEN!" (For Advertising Purposes for Suspensories.) THE S. H. WETMORE COMPANY, New York, N. Y. Filed July 28, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE HAMMOND AND HAMMOND.

Decided July 31, 1922.

1. DISCLOSURE IN A PATENT.
A disclosure in a patent is conclusive evidence that the inventor was in possession of a knowledge of what is there disclosed, at least as early as the date on which the application was filed.

2. PRIOR PATENT—WHEN A REFERENCE.
Where two applications filed by different inventors are copending and the earlier filed matures into a patent, it becomes a reference against the later application for all matter disclosed in the patent, whether claimed or not, unless the patent is overcome by affidavit or judgment of priority.

3. SAME—SAME.
A claim in the later application, to be patentable, must define something in addition to and which involves an invention over what is disclosed in the patent. (*Ex parte Thomas*, 251 O. G., 839, construed.)

4. PRIOR PATENT TO SAME INVENTOR—WHEN A REFERENCE.
Where the later application is filed by the same inventor for an improvement or modification of what is claimed in the patent, such improvement or modification must, if the claim to it is to be properly allowed, define an invention over what forms the basis of the claim of the patent. (*In re Isherwood*, 245 O. G., 847; 46 App. D. C., 507.)

APPEAL from Examiners in Chief.

PRESSURE GAUGE.

Messrs. Fraser, Turk & Myers for the applicants.

KINNAN, *First Assistant Commissioner:*

The applicants have appealed from the decision of the Examiners in Chief affirming that of the Primary Examiner denying patentability to claims 1 to 9.

The following will serve for illustrative purposes:

1. A device of the character described including pump engaging means and tire valve casing engaging means, a passage connecting said pump engaging means and said tire valve-casing engaging means, a gauge and a second passage connecting said gauge and said first named passage, said gauge including a pair of telescoping elements constructed for cooperation with each other to form a pressure chamber, and yielding means resisting the telescoping action of the elements caused by pressure within the chamber formed thereby.

2. A device of the character described including pump engaging means and tire valve casing engaging means, a gauge including a pair of telescoping elements constructed for cooperation with each other to form a pressure chamber, yielding means resisting the telescoping action of the elements, a valve upon one of the telescoping elements for placing the pressure chamber in communication with the outer atmosphere, and trip means for opening the said valve when a predetermined pressure is reached.

The references are: Lamplugh, 511,706, Dec. 26, 1893; Twitchell, 927,298, July 6, 1909; Norton, 998,115, July 18, 1911; Hammond, 1,085,185, Aug. 13, 1912; Kraft et al., 1,176,907, Mar. 28, 1916.

The tribunals below considered certain additional claims numbered 10 to 17, inclusive, but they are not included in the present appeal.

The alleged invention is a pressure gauge having an adjustable blow-off and a three-way coupling, the complete device adapted for use in inflating pneumatic tires. The details of the construction need not be entered into, as there is no difference of view as to what is embraced in the application nor what is disclosed in the prior patents.

The appellants have obtained a patent, No. 1,085,185, on a pressure gauge for pneumatic tires. Some question has been raised by the appellants as to whether this patent, granted during the pendency of a parent application, of which the instant case is a division, but on an application filed prior to the date of such parent case, is a valid reference. It is believed to be elemental that where there are two patents granted, especially at different dates, there must be two inventions, one invention which forms the basis of one patent and the other invention that of the second patent. A disclosure in a patent is conclusive evidence that the inventor was in possession of a knowledge of what is there disclosed at least as early as the date on which his application was filed. If another patent is to be granted, either to the same or a different inventor, on an application filed subsequently to that on which the patent was granted, such later patent must be for a means or a process involving an invention over what is disclosed in the earlier patent, whether reached by a claim or not, unless the filing date of such earlier patent has been overcome by affidavit or judgment of priority. Where the prior patent, as in the present case, discloses only a single species of the invention and is issued to the same inventor who seeks a second patent, the prior patent is a bar to any subsequent claim for a construction actually disclosed in that patent and reached by any of its claims. If a second patent is to be granted, what is claimed therein must involve invention over the structure embraced in the claims of the prior patent. The foregoing is stated after a full consideration of the holding in *ex parte Thomas* (251 O. G., 839). In the appel-

lant's prior patent, 1,035,185, there is but one species or embodiment of the device, and this is squarely embraced by the claims, especially claim 6. This patent is a reference, therefore, for any claim of the present case which does not define invention over the device of the patent. In determining what is invention the additional prior art should be considered. (*In re Isherwood*, 46 App. D. C., 507; 245 O. G., 847.)

The patent to Kraft et al. is quite pertinent. It shows the three-way coupling and a pressure gauge with a maximum blow-off. The particular type of pressure chamber of the gauge set forth in the claims is not disclosed, but is well disclosed in the appellants' prior patent. In this prior patent the blow-off arrangement is different from that shown by Kraft. The Examiners in Chief and the Primary Examiner have held, however, that there was no inventive concept in substituting in the gauge of the appellants' prior patent the particular type of blow-off employed by Kraft et al. It was also held by the tribunals below that to change the connection disclosed in appellants' patent at 3, 4, so as to couple the gauge to the coupling like that shown by Kraft et al., that is, to substitute the gauge of appellants' patent for the gauge of Kraft, in the same organization, was an obvious thing to do. With both these conclusions I am forced to assent. The changes are so obvious, so readily made, so suggested by the Kraft et al. patent, that I am unable to discover any invention in these changes.

In view of the foregoing, it is apparent the appealed claims, save claims 4 to 7, are all unpatentable. To meet claim 1, it is only necessary to substitute, in the old organization of Kraft et al., the type of pressure gauge disclosed in appellants' prior patent. The Examiners in Chief held also that this combination being old, the claim was objectionable because it depended upon an alleged novelty in a single element combination, which novel feature did not modify or change the operation or functions performed by the other old elements. I am persuaded this holding is sound.

As to the remaining claims here on appeal, save claims 4 to 7, these are anticipated by the changes already noted in the structures of the prior art.

The Examiners in Chief determined claim 4 included patentable matter and suggested a certain minor change therein, but I am persuaded the claim is patentable as it stands.

Claim 7 recites a vent valve in the tube which is attached to the cylinder. This tube corresponds to tube 10 in the appellants' patent. Although there is a vent valve in the gauge of this patent, above the cylinder, yet I am persuaded that the construction sought to be covered by this claim and fairly defined by it, is not realized in the organization resulting from the combination of references above noted. I think this claim is allowable.

The decision of the Examiners in Chief is affirmed as to claims 1, 2, and 3, 5, 6, 8, and 9, and reversed as to claims 4 and 7.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

SHERMAN *v.* HAGEMANN.

No. 1488. Decided April 3, 1922.

1. PATENTS—CLAIM FOR MEANS FOR RELEASING PRESSURE AFTER PREDETERMINED DISTANCE DOES NOT REQUIRE AUTOMATIC PREDETERMINATION.

A claim in interference for an improvement in a friction-roll manifolder which employs means for relaxing the pressure between the roll after feeding the strips a predetermined distance does not require that the predetermination of that distance shall be automatic, so that a party is entitled to make the claim, though the operator must determine the distance by observing the coincidence of the marks on the upper strip and on the machine frame.

2. SAME—CLAIM OF INTERFERENCE MUST BE GIVEN BROAD MEANING.

The claim in interference proceedings should be given as broad a meaning as its terminology will reasonably permit.

Mr. Melville Church and *Mr. A. M. Allen* for Sherman.

Mr. F. P. Warfield, *Mr. H. S. Duell*, and *Mr. J. W. Anderson* for Hagemann.

SMYTH, *C. J.*:

This appeal is from a decision of the Commissioner of Patents in an interference proceeding in which there were originally five parties—Hagemann, Miller, Smith, Roberts, and Sherman. The issue is expressed in one claim, which reads:

> In a friction-roll manifolder employing perforated form strips, a drive roll and a co-operative pressure roll for feeding said strips, means for relaxing the pressure between the rolls after feeding said strips a predetermined distance, and form adjusting means for engaging form perforations at the time of said pressure relaxation.

Hagemann is the senior party. Four of the parties challenged the right of Hagemann to make the claim. The Law Examiner decided against them. No testimony was taken by any of the parties, and the Examiner of Interferences awarded priority to Hagemann on the record. Two of the parties, Roberts and Sherman, appealed to the Examiners in Chief, but they were defeated. The appeal to the Commissioner was by Sherman alone. He lost, and priority was awarded to Hagemann. Sherman brings the case here.

In a general way, the invention we are considering relates to improvements in what is commonly known as autographic registers for making sales slips and the like. They usually comprise a casing in which a plurality of rolls of paper are mounted, the webs from the several rolls being drawn over a writing tablet on top of the case, with carbon paper interposed between the several strips on the tablet, and feeding devices located beyond the writing tablet for feeding or drawing the written strips from the tablet to be torn or severed from the webs, and a fresh supply of paper left for subsequent use.

The Hagemann structure is thus described by the Examiners in Chief. The gears are turned by a hand crank, and the strips are pulled forward until the operator observes the coincidence of certain marks on the upper strip and on the machine frame, when he stops rotating the crank. The perforations

in the strips are now in position to receive the aligning pins. These pins are lifted by the operator by rocking a lever adjacent to the crank. The perforations are larger than the pins, and the latter may not engage the walls of the perforations at the time the pins are lifted. After the latter are well within the perforations, a lug, that is lifted with the pins, engages the frame of the upper feed roller, raises this roller away from the cooperating roller and thus frees the strips. Strips having been under tension may now settle backward, and draw the front walls of the perforations against the front sides of the pins.

Sherman urges that since there is nothing in the Hagemann machine which predetermines the distance that the strips shall be fed, it does not respond to the claim; in other words, that the predetermination called for is not effected by the machine but by the conscious action of the operator, who, when he discovers that the marks on the upper strip correspond with those on the structure, ceases to operate the crank. The stress of appellant's argument at the bar was laid upon this contention. If, he said, the predetermination is to be the work of the operator, it cannot be that of the machine, and hence one of the elements of the claim is not satisfied in the Hagemann structure. But this assumes that the claim requires that the means for effecting the predetermination shall be in the machine, whereas there is no such requirement in it. It does not say that the predetermination shall be automatic, and we may not import into it something which was not placed there when it was formulated. To do so would be to narrow the claim, whereas we should give it as broad a meaning as its terminology will reasonably permit. (*Miel* v. *Young*, 29 App. D. C., 481; 128 O. G., 2532; *Sanders* v. *Emerson*, 37 App. D. C., 598; 174 O. G., 1220; *Murphy* v. *Cooper*, 45 App. D. C., 307; 228 O. G., 1458.) The claim is taken from Smith's application, which contains no mention of an automatic action in that regard. If the operator predetermines to stop the forward movement of the strips when the mark on the strip and the one on the frame are in proper register, there are means by which he can do it. This satisfies the claim.

Other points were made in the brief, but we think they are without merit.

We affirm the decision of the Commissioner.

Affirmed.

Mr. Justice VAN ORSDEL dissents.

ADJUDICATED PATENTS.

(U. S. D. C. Conn.) The Heim reissue patent, No. 15,035, for roll-grinding machine, *Held* valid as a reissue; some claims held invalid and others held valid. *Ball & Roller Bearing Co.* v. *F. C. Sanford Mfg. Co.*, 280 Fed. Rep., 415.

(U. S. D. C. Conn.) The Heim patent, No. 1,264,930, claims 1 and 4, for roll-grinding machine, *Held* invalid as aggregations. *Ball & Roller Bearing Co.* v. *F. C. Sanford Mfg. Co.*, 280 Fed. Rep., 415.

(U. S. D. C. Conn.) The Heim patent, No. 1,210,936, for feeding device for roll-grinding machines, *Held* not infringed. *Ball & Roller Bearing Co.* v. *F. C. Sanford Mfg. Co.*, 280 Fed. Rep., 415.

(U. S. C. C. A. N. Y.) The Cordley patent, No. 1,054,677, for water cooler. *Held* void for lack of invention. *Cordley* v. *Richardson Corporation*, 280 Fed. Rep., 515.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

892,603, E. E. Luther and W. H. Volck, Process of making arsenate of lead, suit filed Aug. 10, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 770, *California Spray Chemical Co.* v. *The Sherwin-Williams Co.*

958,478, W. E. Davey, Process of reinforcing trees, suit filed July 28, 1922, U. S. D. C., E. D. Pa., Doc. 2593, *The Davey Tree Expert Co.* v. *Robert Foster.*

1,002,776, S. D. Strong; 1,346,801, W. J. Doyle and J. J. Wollenhaupt, Furnaces, suit filed Aug. 18, 1921, U. S. D. C., S. D. Ohio, Doc. 238, *Monitor Stove Co. et al.* v. *The Williamson Heater Co.* 1,002,776 and 1,346,801 held void and bill dismissed Aug. 2, 1922.

1,171,245, B. E. Rainey, Hot-air furnace, suit filed July 9, 1921, U. S. D. C., S. D. Ohio, Doc. 232, *The Williamson Heater Co.* v. *The Monitor Stove Co.* Held not infringed. Bill dismissed Aug. 2, 1922.

1,208,126, J. E. Francisco, Lubricating system for motors, suit filed July 31, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 764, *W. O. Thompson* v. *The Woodhill Stamping Co.*

1,231,542, 1,277,004, Strip-feeding method for sewing machines; 1,277,005, Sewing machines; 1,277,007, Wearing apparel, J. P. Weis, suit filed Apr. 14, 1922, U. S. D. C., E. D. N. Y., Doc. 1049, *Metropolitan Sewing Machine Corporation* v. *Dave Sonsky.* Interlocutory decree entered on default July 17, 1922.

1,238,020, H. A. Kennedy, Refractory material and process of making same, suit filed Aug. 7, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 768, *Kennedy Refractories Co.* v. *Dolomite Products Co.*

1,277,004. (See 1,231,542.)

1,277,005. (See 1,231,542.)

1,277,007. (See 1,231,542.)

1,307,708, H. Smith, Check book, suit filed July 7, 1922, U. S. C. C. of Appeals, (4th Cir.) Richmond, Va., Doc. 2023, *International Flatstub Check Book Co. Inc.* v. *Young & Selden Co.*

1,346,801. (See 1,002,776.)

1,368,115, F. R. Chester, Amusement apparatus, suit filed June 30, 1922, U. S. D. C., E. D. N. Y., Doc. 1093, *Chester-Pollard Amusement Co., Inc.* v. *Fair Carnival Supply Co., Inc. et al.* See 1,410,371.

1,380,058, A. R. Gross, Parking light for automobiles, etc., suit filed July 28, 1922, U. S. C. C. of Appeals (4th Cir.), Doc. 2034, *A. R. Gross* v. *J. Frank.*

1,410,371, 1,368,115, R. F. Chester, Amusement apparatus, suit filed June 23, 1922, U. S. D. C., E. D. N. Y., Doc. 1088, *Chester-Pollard Amusement Co., Inc.* v. *Hacharo Miyasaki.* See 1,368,115.

1,411,391, J. D. Tucker, Spoke tightener, suit filed July 29, 1922, U. S. D. C., S. D. Calif., Doc. B 83 Eq. and B 84 Eq., *Tucker Bros. Mfg. Co.* v. *R. O. Crisler and W. A. Waterman.* See 1,422,637.

1,416,343, I. A. Featherman, Process of casting corners for metal beds, suit filed June 12, 1922, U. S. D. C., E. D. N. Y., Doc. 1077, *Keystone Foundry Co.* v. *Appollo Foundry Co.*

1,422,637, 1,411,391, J. D. Tucker, Spoke tightener, suit filed July 31, 1922, U. S. D. C., D. Oregon, Doc. No. 8,612, *Tucker Bros. Mfg. Co.* v. *Ira Reeder.* See 1,411,391.

Design 60,084, T. Cahn, Garter, suit filed May 1, 1922, U. S. D. C., E. D. Pa., Doc. 2519, *Pioneer Suspender Co.* v. *Eagle Suspender & Belt Co.* Consent decree for injunction June 22, 1922.

T. M. 129,664, A. T. Cross Pencil Co., Fountain pens, lead pencils, etc., suit filed Aug. 28, 1920, U. S. D. C., N. D. Ohio (E. Div.), Doc. 575, *Erie Malleable Iron Co.* v. *The Standard Parts Co.* T. M. 129,664 ordered to be assigned to Perfection Heater & Mfg. Co. Aug. 8, 1920.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 4, 1922.

Samuel Broom and Otto L. Meyer, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Roggen Bros. & Co., of 649 Broadway, New York, N. Y., for registration of a trade-mark and trade-mark registered July 28, 1896, No. 28,667, to Samuel Broom and Otto L. Meyer, of 44 White Street, New York, N. Y., and a notice of such declaration sent by registered mail to Samuel Broom and Otto L. Meyer at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Samuel Broom and Otto L. Meyer, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., Aug. 11, 1922.

S. F. Myers & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Roland A. Gsell, of No. 15 Maiden Lane, New York, N. Y., for registration of a trade-mark and trade-mark registered November 5, 1895, No. 27,193, to S. F. Myers & Co. of 48 and 50 Maiden Lane, New York, N. Y., and a notice of such interference sent by registered mail to said S. F. Myers & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said S. F. Myers & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

Halla Dagger Medicine Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Charles Cramer, of Gardner, Kans., for registration of a trade-mark and trade-mark registered October 12, 1915, No. 106,153, to Halla Dagger Medicine Company, of Great Falls, Mont., and a notice of such declaration sent by registered mail to Halla Dagger Medicine Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Halla Dagger Medicine Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

Knox Manufacturing Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Dupuis Chemical Co., of Los Angeles, Calif., for registration of a trade-mark and trade-mark registered January 19, 1920, No. 72,330, to Knox Manufacturing Co., of 709 South Los Angeles Street, Los Angeles, Calif., and a notice of such declaration sent by registered mail to Knox Manufacturing Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Knox Manufacturing Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

George W. Caldwell, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Charles F. Hamel, of 1910 Cherry Street, Toledo, Ohio, for registration of a trade-mark and trade-mark registered August 16, 1904, No. 43,203, to George W. Caldwell, 44 North Street, Middletown, N. Y., and a notice of such declaration sent by registered mail to Caldwell at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Caldwell, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

David F. Halsted, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Cooper, Coate & Casey Dry Goods Co., of Seventh and Los Angeles Streets, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered April 17, 1900, No. 34,481, to David F. Halsted, of 70 and 72 Franklin Street, New York, N. Y., and a notice of such declaration sent by registered mail to David F. Halsted at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Halsted, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Changes in Classification.

(ORDER No. 2,773.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 2, 1922.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 55, Harrows and Diggers (Division 1), abolish subclasses—

5. **Hoes—**
38. Adjustable,
98. Blades—
99. Integral shank,
100. Integral socket,
39. Compound—
40. Adjustable,
101. Handles,
41. Horizontal—
42. Adjustable,
43. Interchangeable,
44. Toothed blades,
45. Weeding.

The patents formerly contained in these subclasses have been placed for the most part in class 97, Plows, reclassified in this order.

In class 97, Plows (Division I), abolish subclass—

Plows—
12. Ditching.

97.—PLOWS.
1. **Miscellaneous.**
2. **Plows and cultivators.**
3. **Plows and rollers.**
4. **Plows and harrows—**
5. Harrow attachments—
6. Revolving.
7. **Cultivators and rollers.**
8. **Cultivators and harrows.**
9. **Cultivators and scrapers.**
10. **Soil elevators and treaters.**
11. **Cotton-chopper type—**
12. Plant thinner and cultivator,
13. Reciprocating and oscillating chopper,
14. Rotary chopper—
15. Longitudinal axis,
16. Transverse axis,
17. Vertical axis,
18. Reciprocating,
19. Oscillating,
20. Endless chain,
21. Opening and closing,
22. Rolling,
23. Scraper,
24. **Alternating and hillside—**
25. Motor propelled,
26. Axially-rotatable implement,
27. Central wheeled frame,
28. Tilting beam,
29. Parallel separate implements,
30. Horizontally-reversible beam,
31. Implement shifted for opposite throw—
32. With wheel turning,
33. Shiftable moldboard.
34. **Driven implement—**
35. Combined driven implement and cultivator,
36. Reciprocating and oscillating implement,
37. Rotary—
38. Longitudinal axis—
39. Spiral,
40. Transverse axis—
41. Spiral,
42. Rod,
43. Vertical axis.
44. Reciprocating,
45. Oscillating,
46. Endless chain.
47. **Motor propelled—**
48. Steered by walking attendant,
49. Automatic steering attachments,
50. **Motor-operated frame or implement lifts.**
51. **Furrow-evening lifts.**
52. **Rolling implement—**
53. Disk plows,
54. Disk cultivators.
55. **Irrigating-furrow formers and blockers.**
56. **Ridging and covering—**
57. Hilling.
58. **Hand-propelled machines—**
59. Wheeled,
60. Horizontally rotatable,
61. **Hand cultivating tools—**
62. Combined hoe and weeder,
63. Weeders—
64. Adjustable teeth,
65. Hoes—
66. Compound blades—
67. Adjustable,
68. Horizontal blades—
69. Adjustable,
70. Adjustable blades,
71. Toothed blades,
71.1. Handles.
72. **Draft-operated frame or implement lifts—**
73. Crank-axle clutch,

97.—PLOWS—Continued.
Draft-operated frame or implement lifts—
74. Lifting leg,
75. Draft link,
76. **Foot-operated lift.**
Plows—
77. Flexibly-connected gangs,
78. Subsoil—
79. Attachments,
80. Multiple levels,
81. Wheeled—
82. Freely-suspended plow—
83. Combined frame leveling and plow lift,
84. Frame leveling,
85. Raising and lowering—
86. Plow and colter in unison,
87. Vertical translation—
88. With lateral adjustment,
89. Swinging—
90. With lateral adjustment,
91. With vertical adjustment,
92. Compound movement,
93. Gang plows—
94. Gang supporting frames,
95. Gang-plow units,
96. Vertical adjustment,
97. Lateral adjustment,
98. Frame and trailing plow adjusting connections,
99. Suspended plow structure,
100. Rigid frame and plow—
101. With adjustable wheel mount—
102. Front and rear simultaneously adjustable,
103. Rotary crank-axle mount,
104. Plows laterally adjustable,
105. Plow offset,
106. Beam, body, and handle—
107. Multiple beam and body,
108. Multiple body,
109. With shoe or runner,
110. Shovel type,
111. Sliding-moldboard type—
112. Listers,
113. Plow-body construction—
114. Landside,
115. Moldboard—
116. Friction reducing,
117. Furrow slice cutters,
118. Hinged,
119. Revolving—
120. Belt,
121. Disk,
122. Roller,
123. Skeleton,
124. Quick-detachable elements,
125. Points and shares,
126. Shoe and guide.

The patents formerly contained in this subclass have been placed for the most part in class 37, Excavating.

In class 97, Plows (Division I), abolish the remaining subclasses and establish in lieu thereof the following subclasses and definitions:

97.—PLOWS—Continued.
Plows—
127. Adjustable casters and caster locks,
128. Carrier and beam connection,
129. Attachments—
130. Riding,
131. Front truck,
132. Antifriction devices,
133. Trailing sweep,
134. Supplemental moldboard.
135. **Cultivators—**
136. Tree or stake guided,
137. Orchard,
138. Wheel-inclosing gangs or frames,
139. Convertible riding or walking,
140. Lister-furrow-guide type—
141. With laterally-hinged cultivators,
142. With guide rollers,
143. Multiple row,
144. Wheel supported—
144.1. Scraping weeders.
145. Freely-suspended cultivator—
146. Mast and link,
147. Seat-counterbalanced beams,
148. Combined beam lift and frame balance,
149. Straddle row—
150. Parallel rule frame,
151. With supplemental implements,
152. Multiple rows,
153. Tongueless,
154. Cultivator beams laterally guided—
155. Unison with guide wheels,
156. With beam lift,
157. Cultivator-beam lift—
158. Translational,
159. Cultivator-beam adjustment,
160. Cultivator-beam spreaders,
161. Suspended cultivator gang structure,
162. Rigid frame and cultivating implement—
163. Straddle row,
164. Implement adjustment,
165. With adjustable wheel mount—
166. Front and rear simultaneously adjusted,
167. Frame, body, and handle—
168. Straddle row,
169. Scraping weeder—
170. Straddle row,
171. Lister type,
172. Expansible frames,
173. Crossbeam type—
174. Adjustable angle—
175. Parallel beams,
176. Center hinged,
177. Rigid V frame,
178. Multiple beam and body,
179. Cultivator attachments,
180. **Guide wheels—**
181. Multiple,
182. **Drag-bar units.**

97.—**PLOWS**—Continued.
183. **Releasable implement connections—**
184. Resilient.
185. Break pin.
186. **Beams.**
187. **Standards.**
188. **Fenders.**
189. **Gage wheels.**
190. **Gage runners.**
191. **Handles.**
192. **Plant lifters and deflectors.**
193. **Weed turners.**
194. **Trash clearers.**
Couplings—
195. Beam and handle.
196. Body and handle.
197. Body and beam.
198. Shovel and standard.
198.1. Beam and tool standard.
199. **Couplings—**
200. With implement counterbalance.
201. **Earthworking elements—**
202. Cultivator teeth,
203. Earthworking elements—Cultivator shovels—
204. With integral sweep,
205. With separate sweep,
206. Blades—
207. Subsurface weeding,
208. **Colters—**
209. **Rolling—**
210. With jointer.
211. Jointer.
212. **Rotary elements—**
213. Chopper head,
214. Chain,
215. Cylinder,
216. With movable teeth.
217. Disk—
218. Twin disks,
219. Spirals,
220. Gangs.
221. **Disk sharpeners.**
222. **Tool scrapers—**
223. For disks—
224. Gangs.
225. **Furrow formers.**
226. **Sod cutters.**
226.1. **Root cutters and grubbers.**
227. **Lawn trimmers.**
228. **Land markers—**
229. Wheel supported—
230. Machine attached,
231. Slidably mounted.
Implement frames—
232. Motor propelled,
233. Wheeled—
234. Adjustable,
235. Flexible—
236. Break joint,
237. Main and auxiliary,
238. Nonwheeled—
239. Adjustable,
Implement control—
240. Adjustment—
241. Fore and aft,
242. Lateral,
243. Elevating and depressing—
244. Power operated,
245. Swinging.

THOMAS E. ROBERTSON, *Commissioner.*

Changes in Classification.

(ORDER No. 2,775.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 11, 1922.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 260, Chemistry—Carbon Compounds (Division VI), establish the following subclasses and definitions:

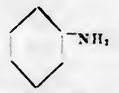
Amines—
Aromatic—
128.5. Amino alcohols and ketones.
130.5. Primary.
Hydroxy derivatives—
Aliphatic—
156.5. Polyhydroxy.

128.5. AMINES, AROMATIC, AMINO ALCOHOLS AND KETONES. Carbon compounds containing the amino ketone or amino alcohol attached to an aromatic nucleus. For example, adrenaline

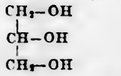


Search this class, subclasses 38, for compounds of the quinoline series, and 127, for aliphatic compounds.

130.5. AMINES, AROMATIC, PRIMARY. Carbon compounds containing an unsubstituted NH_2 group attached to the aromatic nucleus. For example, aniline



156.5. HYDROXY DERIVATIVES, ALIPHATIC, POLYHYDROXY. Carbon compounds containing more than one hydroxy group linked to carbon of an aliphatic radicle. For example, glycerine



The patents contained in subclasses 128.5 and 130.5 above, have been taken from class 260, Chemistry—Carbon Compounds, subclass 128, Amines, Aromatic, and those contained in subclass 156.5 have been taken from class 260, subclass 156, Hydroxy derivatives, Aliphatic.

THOMAS E. ROBERTSON,
Commissioner.

Changes in Classification.

(ORDER No. 2,776.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 11, 1922.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 177, Electric Signaling (Division XLII), establish subclasses

385. **Submarine—**
386. Compressional wave.

The patents contained in subclass 385 have been taken from class 177, Electric Signaling, subclasses 311, Alarms; 337, Annunciator systems, Multiple variation; 339, Annunciator systems, Single variation, and 352, Systems, and class 250, Radiant Energy, subclasses 3, Teledynamic, Earth transmission; 4, Teledynamic, Earth transmission, Telephony, and 5, Teledynamic, Earth transmission, Telegraphy, and those contained in subclass 386 have been taken from class 177, Electric Signaling, subclasses 7, Bells; 288, Bells, Electromechanical; 331, Annunciators, Station selectors, and 352, Systems; class 179, Telephony, subclasses 1, Systems; 81, Systems, Substation circuits; 114, Telephones, Magnetic; 121, Transmitters; 122, Transmitters, Granular, and 123, Transmitters, Granular, Multiple diaphragm; class 181, Acoustics, subclasses 5, Miscellaneous, and 26, Sound-locating devices, and class 250, Radiant Energy, subclasses 2, Teledynamic, and 17, Teledynamic, Apparatus, Transmitters.

THOMAS E. ROBERTSON,
Commissioner.

Changes in Classification.

(ORDER No. 2,777.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 17, 1922.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 206, Special Receptacles and Packages (Division XL), establish the following subclass and definition:

Receptacles—
16.5. Thermometer.

16.5. RECEPTACLES, THERMOMETER. Cases for thermometers.

Note.—Thermometer structure per se is classified in class 73, MEASURING INSTRUMENTS, subclass 52, Thermometers.

The patents contained in this subclass have been taken from class 73, Measuring Instruments, subclass 52, Thermometers.

THOMAS E. ROBERTSON,
Commissioner.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF AUGUST, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abell, Rollin, Milton, Mass. Liquid-fuel motor. No. 1,424,705; Aug. 1.
Abercrombie, Charles M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. No. 1,424,706; Aug. 1.
Adkins, Thomas E., Canton, Ohio. Spring bolt. No. 1,424,331; Aug. 1.
Adler Engineering Company. (See Adler, Henry A., assignor.)
Adler, Henry A., New York, assignor to Adler Engineering Company, Corona, Long Island, N. Y. Dental instrument. No. 1,424,707; Aug. 1.
Agee, Charley D., Dallas, Tex. Window-screen hanger. No. 1,424,431; Aug. 1.
Aicardi, James A., jr., et al. (See Gagin, David, assignor.)
Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Keller, Huldreich, assignor.)
American Automatic Lock and Lift Company. (See Cane, Gordon F., assignor.)
American Cotton Oil Company, The. (See Lamb, Karl B., assignor.)
American Foundry Equipment Company. (See Coburn, Richard G., assignor.)
American Multigraph Company, The. (See Chisholm, Clifton, assignor.)
American Spotless Street System, Inc. (See Richardson, G. J., and Sachs, assignors.)
American Spotless Street System, Inc. (See Richardson, George J., assignor.)
Amlee, Ole G., St. Paul, Minn. Toy pistol. No. 1,424,432; Aug. 1.
Anderson, Clark T. (See Hartman, F. O., and Anderson.)
Anderson, Robert D. H., New York, N. Y. Collapsible stand. No. 1,424,271; Aug. 1.
Angeletti, Joseph M., New York, N. Y. Tire trimmer. No. 1,424,433. Aug. 1.
Ankeny, Roy H., Morgantown, W. Va. Flushing cuspidor. No. 1,424,272; Aug. 1.
Arato, Achille, assignor to F. Botta, Turin, Italy. Trailer brake. No. 1,424,273; Aug. 1.
Archer, Lenah B., executrix. (See Burrows, Linus P.)
Armstrong, James C., Beloit, Wis. Fan. No. 1,424,391; Aug. 1.
Arnott, Robert F., Montclair, N. J. Balancing balls. No. 1,424,191; Aug. 1.
Aromint Manufacturing Company, The. (See Varga, Paul, assignor.)
Aschburner, Ernest F., et al. (See Aschburner, Fredrick C., assignor.)
Aschburner, Fredrick C., Chicago, Ill., assignor of one-third to W. H. Aschburner and one-third to E. F. Aschburner. Balancing cover support. No. 1,424,550; Aug. 1.
Aschburner, William H., et al. (See Aschburner, Fredrick C., assignor.)
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Producing a repair in fabrics. No. 1,424,332; Aug. 1.
Ausubel, Herman, New York, N. Y. Holder for tooth-cleaning articles. No. 1,424,434; Aug. 1.
Automatic Electric Company. (See Erickson, John, assignor.)
Automatic Electric Company. (See Martin, Talbot G., assignor.)
Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)
Averill, Earl A., Mount Vernon, N. Y., assignor to Locomotive Feed Water Heater Company. Means for protecting pressure gauges on fluctuating-pressure water lines. No. 1,424,145; Aug. 1.
Badger Manufacturing Corporation. (See Isgrig, Walter V., assignor.)
Baker Casing Shoe Company. (See Baker, Reuben C., assignor.)
Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Valve gear. No. 1,424,146; Aug. 1.
Baker, Newton D., Secretary of War, trustee. (See Buckendale, Lawrence R., assignor.)
Baker, Reuben C., assignor to Baker Casing Shoe Company, Coalinga, Calif. Pitman end. No. 1,424,435; Aug. 1.
Baker Steam Motor Car and Manufacturing Co., The. (See Baker, Hartley O., assignor.)
Baker, Walter W., and F. W. Franklin, Syracuse, N. Y. Tool and holder therefor. No. 1,424,392; Aug. 1.
Balactar, John A. and K. M., Ford City, Ontario, Canada. Automobile engine hood cover. No. 1,424,192; Aug. 1.
Balactar, Kiril M. (See Balactar, John A., and K. M.)
Ballard, Herbert T., Norristown, Pa. Knitting machine. No. 1,424,274; Aug. 1.
Barbarou, Marius J. B., Paris, France. Fastening means for automobile accessories. No. 1,424,611; Aug. 1.
Barber, Lewis R., Fresno, Calif. Fruit-pitting machine. No. 1,424,436; Aug. 1.
Barker, George R., Joliet, assignor to W. E. Pratt, Chicago, Ill. Automobile and carriage jack. No. 1,424,147; Aug. 1.
Barnhart, John W., Columbus, Ohio. Figure wheeled toy. No. 1,424,437; Aug. 1.
Bartleson, Thomas L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making phosphorous oxychloride. No. 1,424,193; Aug. 1.
Bates, Clarence A., and E. Fults, Canastota, N. Y. Screw driver. No. 1,424,275; Aug. 1.
Batts, John T., Grand Rapids, Mich. Trunk garment-holding rack. No. 1,424,333; Aug. 1.
Baum, James B., Grand Junction, Colo. Truck. No. 1,424,438; Aug. 1.
Baumann, Emil, St. Louis, Mo. Resilient tire. No. 1,424,231; Aug. 1.
Baxter, Robert L., et al. (See Nusbaum, Wilbur J., assignor.)
Becker, John H., assignor to Warp Twisting-In Machine Company, Brooklyn, N. Y. Warp-twisting-in machine. No. 1,424,276; Aug. 1.
Becker, Paul, assignor to Firm of Carl Zeiss, Jena, Germany. Device for temporarily converting a continuous ray pencil into an intermittent one. No. 1,424,334; Aug. 1.
Beers, Frederick, New Rochelle, and H. L. Powell, assignors to National Biscuit Company, New York, N. Y. Apparatus for coating cakes, etc. No. 1,424,282; Aug. 1.
Bell, Samuel J., Springfield, Mass. Change-making machine. No. 1,424,439; Aug. 1.
Belleville, William, Leicester, Mass. Noncorrosive steel alloy. No. 1,424,612; Aug. 1.
Bellony, Alexander M., U. S. Army. Brake mechanism. No. 1,424,440; Aug. 1.
Benoist, Enrique J., Vina del Mar, Chile. Grade sight. No. 1,424,613; Aug. 1.
Berendsen, Henry A., Bangor, Pa. Refooting stockings. No. 1,424,708; Aug. 1.
Berry, George W., Erie, Pa. Packing for hydraulic jacks. No. 1,424,233; Aug. 1.
Best, C. L., Gas Traction Company. (See Best, Clarence L., assignor.)
Best, Clarence L., Elmhurst, assignor to C. L. Best Gas Traction Company, San Leandro, Calif. Sprocket chain. No. 1,424,441; Aug. 1.
Best, Clarence Leo, Elmhurst, assignor to C. L. Best Gas Traction Company, San Leandro, Calif. Sprocket chain. No. 1,424,442; Aug. 1.
Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
Bickel, Henry F. (See Minnier, B. J., and Bickel.)
Bifiex Products Company. (See Evelyn, Harry C., assignor.)
Bifiex Products Company. (See Grotenhuis, William J., assignor.)
Billingsley, Percy L., Orlando, Fla. Flexible operating mechanism. No. 1,424,148; Aug. 1.
Birchy, Roy O., et al. (See Busby, Robert S., assignor.)
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Extension for conduit outlet boxes. No. 1,424,443; Aug. 1.
Blanchard Adna F., assignor, by mesne assignments, to Fairfield Manufacturing Company, Cranston, R. I. Combination pocketknife and nail clip. No. 1,242,551; Aug. 1.
Bloom, Israel, Denver, Colo. Adjustable curtain rod. No. 1,424,444; Aug. 1.
Bodman, John W., Western Springs, Ill., assignor to William Garrigue & Company, Inc., New York, N. Y. Rotary extracting apparatus. No. 1,424,885; Aug. 1.
Boe, Hans M., Minneapolis, Minn. Grease or oil dispensing apparatus. (Reissue.) No. 15,427; Aug. 1.
Bohll, Jacques. (See Steiner, G., and Bohll.)
Botta, Ferruccio. (See Arato, Achille, assignor.)

Bowen, David R., Ansonia, and C. F. Schnuck, New Haven, assignors to Farrel Foundry & Machine Company, Ansonia, Conn. Machine for mixing or masticating rubber and like materials. No. 1,424,445; Aug. 1.

Bowen, James, Swansea, Wales. Cooling device for air-cooled engines. No. 1,424,234; Aug. 1.

Bowman-Edson. M. K., Company. (See Bowman, Mark K., assignor.)

Bowman, Mark K., assignor to M. K. Bowman-Edson Company, New York, N. Y. Cleaner for tubes of condensers, boilers, etc. No. 1,424,336; Aug. 1.

Boye, James H., Chicago, Ill. Curtain fixture. No. 1,424,337; Aug. 1.

Brennan, John S., Milwaukee, Wis. Burner. No. 1,424,149; Aug. 1.

Brenne, Carl F., Yakima, assignor to Universal Index Tab Company, Seattle, Wash. Index tab. No. 1,424,338; Aug. 1.

Brewer, Charles A. (See Knight, H., and Brewer.)

Brock, Frank P. (See Redman, L. V., Weith, and Brock.)

Bronander, Wilhelm B., Montclair, N. J. Chuck. No. 1,424,235; Aug. 1.

Bronson, John W., New Orleans, La. Cultivating implement. No. 1,424,552; Aug. 1.

Brotherton, Frank. (See Brotherton, Harrison and F.)

Brotherton, Harrison, Brierfield, and F. Brotherton, Bowdon, England. Device for calculating or computing purposes. No. 1,424,194; Aug. 1.

Brown & Bigelow. (See Richards, Frank F., assignor.)

Brown, Henry A. (See Cammack, L. H., and Brown.)

Brown, Theodore H., assignor of one-third to C. E. Ovenshire, one-third to J. C. MacDonald, and one-third to E. C. Ovenshire, Minneapolis, Minn. Nut lock. No. 1,424,277; Aug. 1.

Brown, Vernon M., Anthony, Kans. Trapper's spring gun. No. 1,424,614; Aug. 1.

Brown, Walter H., Pasadena, Calif. Low-pressure alarm for pneumatic tires. No. 1,424,278; Aug. 1.

Browning, John M., Ogden, Utah. Firearm. No. 1,424,553; Aug. 1.

Bruder, Edmund, Chicago, assignor of one-half to H. I. Koppelman, Wilmette, Ill. Paper towel and like machine. No. 1,424,709; Aug. 1.

Buckendale, Lawrence R., United States Army, assignor to N. D. Baker, Secretary of War, trustee. Epicyclic power transmission. No. 1,424,446; Aug. 1.

Buckley, Harry and R., Louisville, Ky. Grinding plate. No. 1,424,615; Aug. 1.

Buckley, Ray. (See Buckley, Harry and R.)

Budd, Edward G., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Wire-spoked wheel. No. 1,424,554; Aug. 1.

Budd Wheel Company. (See Budd, Edward G., assignor.)

Budd Wheel Company. (See Ibach, Emil, assignor.)

Burgess, James H., Port Angeles, assignor of one-half to C. M. Clayton, Seattle, Wash. Mineral-classifying device. No. 1,424,339; Aug. 1.

Burnham, George B., Glendale, Calif. Recovering valuable components in a liquid phase. No. 1,424,447; Aug. 1.

Burnham, Robert C., Richland Center, Wis. Vending machine. No. 1,424,150; Aug. 1.

Baron, Joseph A., jr., Worcester, Mass. Automobile extricating device. No. 1,424,616; Aug. 1.

Burrows, Linus P., deceased, Erie, Pa.; L. B. Archer, executrix. Alloy for forging steel and producing same from nickel ore. No. 1,424,710; Aug. 1.

Burrows, Linus P., deceased, Erie, Pa.; L. B. Archer, executrix. Treating nickel ores and product resulting therefrom. No. 1,424,711; Aug. 1.

Busby, Robert S., assignor of one-half to A. D. Richardson and E. O. Birchy, Jacksonville, Fla. Tilting and locking device for steering wheels. No. 1,424,555; Aug. 1.

Bush, George G., Bristol, Conn. Polisher. No. 1,424,448; Aug. 1.

Calahan, Delona L., Fairfax, Wash. Car-loading apparatus. No. 1,424,279; Aug. 1.

Calhoun, Lannie M. (See Martin, H. W., and Calhoun.)

Callsen, Jurgen, Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Manufacture and production of bromodiethylacetylcarboxyalkyl-urea compounds. No. 1,424,236; Aug. 1.

Campbell, Ernist R., et al. (See Mosier, James F., assignor.)

Campbell, Philip A., F. F. Eby, and S. H. Price, Edmonton, Alberta; said Campbell and Price assignors, by mesne assignments, to Canadian Farm Implement Company Limited, Vancouver, British Columbia, Canada. Mower. No. 1,424,617; Aug. 1.

Cameron, Arden, Norwich, Ontario, Canada. Ditching machine. No. 1,424,151; Aug. 1.

Cammack, Lucius H., and H. A. Brown, Huntington, W. Va. Rotary advertising device. No. 1,424,449; Aug. 1.

Canadian Farm Implement Company Limited. (See Campbell, P. A., Eby, and Price, assignors.)

Canadian Vaporizer Company, The. (See Funke, Frank, assignor.)

Cane, Gordon F., Oakland, assignor to American Automatic Lock and Lift Company, San Francisco, Calif. Gear rack. No. 1,424,237; Aug. 1.

Carbo-Oxygen Company. (See Harris, John, assignor.)

Carey, Thomas W., jr., New Orleans, La. Denture reliner. No. 1,424,618; Aug. 1.

Carlberg, August E., assignor to Walden-Worcester, Inc., Worcester, Mass. Attachment for wrenches. No. 1,424,712; Aug. 1.

Carlson, John P., The Dalles, Oreg. Railway brake. No. 1,424,393; Aug. 1.

Carlyle, Clyde A., Detroit, assignor of one-half to B. D. Cleghorn, River Rouge, Mich. Flytrap. No. 1,424,619; Aug. 1.

Case, George W., and J. W. Roberts, Passaic, N. J. Machine for aligning the flanges of traylike articles. No. 1,424,280; Aug. 1.

Cataldi, Beniamino, Turin, Italy, assignor to A. Pomillo, New York, N. Y. Extraction of the cellulose from vegetable fibers. No. 1,424,620; Aug. 1.

Cavitt, John C., Weirton, W. Va. Electric heating apparatus. No. 1,424,340; Aug. 1.

Charon, Thomas J., Park River, N. Dak. Power attachment for automobiles. No. 1,424,281; Aug. 1.

Charsky, Benjamin, New York, assignor to Mochar Leather Goods Corporation, Brooklyn, N. Y. Brief case. No. 1,424,152; Aug. 1.

Childs, Irene M., assignor of one-half to E. M. Shute, Los Angeles, Calif. Toy. No. 1,424,450; Aug. 1.

Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Plate-restacking mechanism for addressing machines. No. 1,424,153; Aug. 1.

Clark, Alfred A., Baltimore, Md. Washing machine. No. 1,424,154; Aug. 1.

Clark, Henry F., Belle Vernon, assignor to Window Glass Machine Company, Pittsburgh, Pa. Manufacture of sheet glass. No. 1,424,155; Aug. 1.

Clark, Omar E., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Fluid-operated motor. No. 1,424,156; Aug. 1.

Clarke, Fannie J., et al., legatees. (See Krogh, Ferdinand, W.)

Clausen, Henry, San Francisco, Calif. Vehicle window device. No. 1,424,282; Aug. 1.

Clayton, Clare M. (See Burgess, James H., assignor.)

Clegg, James W., Oldham, England. Combing machine. No. 1,424,621; Aug. 1.

Cleghorn, Belle D. (See Carlyle, Clyde A., assignor.)

Coburn, Richard G., Chicago, Ill., assignor, by mesne assignments, to American Foundry Equipment Company, New York, N. Y. Sand-blast machine. No. 1,424,713; Aug. 1.

Cochran, Eva E., Lodi, Calif. Butt hook. No. 1,424,238; Aug. 1.

Cole, John W., and A. E. Johnson, St. Francis, Kans. Automobile repair stand. No. 1,424,190; Aug. 1.

Collier, Barron G., Inc. (See Johnston, Richard A., assignor.)

Combination Machine Company. (See Thom, James C., assignor.)

Combs, George W., Leavenworth, Kans. Core machine. No. 1,424,341; Aug. 1.

Compton, Glenn A., Minneapolis, assignor to Northfield Iron Company, Northfield, Minn. Collapsible arch form. No. 1,424,342; Aug. 1.

Connecticut Electric Manufacturing Company, The. (See Trumbull, Alexander H., assignor.)

Consolidated Car Heating Company. (See Oakley, George, assignor.)

Conti, James T. F., assignor to Société Industrielle d' Instruments de Précision, Paris, France. Suspension for balance plates. No. 1,424,239; Aug. 1.

Cook, Harry A., Dixon, Nebr. Plant waterer. No. 1,424,157; Aug. 1.

Cooke, Arthur G., county of Middlesex, England. Gauging apparatus. No. 1,424,556; Aug. 1.

Cooley, Claude, Lucerne, Mo. Haystacker. No. 1,424,158; Aug. 1.

Corning Glass Works. (See Said, Jesse M., assignor.)

Cote, Thomas F., Prince Albert, Saskatchewan, Canada. Fuse plug. No. 1,424,714; Aug. 1.

Coulombe, Joseph C., Lowell, Mass. Fuel-feeding and suction-inducing device. No. 1,424,715; Aug. 1.

Cowles, C., & Company. (See Gates, Louis W., assignor.)

Crandall, Orlando, C., Stanwood, Mich. Combined sand and gravel screen. No. 1,424,451; Aug. 1.

Crawford, Harvey F., deceased, Brockton, Mass.; L. M. Jackson, executrix. Adjustable last. No. 1,424,343; Aug. 1.

Craven, Francis S., and J. Mihalyi, Washington, D. C. Lubricating grease cup. No. 1,424,557; Aug. 1.

Crippen, Herbert O., Jacksonville, Fla. Rail spike. No. 1,424,623; Aug. 1.

Crompton, James, London, and W. Gallagher, Manchester, England. Calculating device. No. 1,424,344; Aug. 1.

Cross, Robert J., Pittsburgh, Pa. Book cover and binder. No. 1,424,622; Aug. 1.

Crossley Motors Limited. (See Wishart, Thomas D., assignor.)

Crouse-Hinds Company. (See Bissell, Carl H., assignor.)

Crosier, Wilmot F., Osceola, Nebr. Bottle. No. 1,424,558; Aug. 1.

Cryan, William H., assignor of one-sixth to R. J. Davis, one-sixth to W. F. Fox, one-sixth to H. B. Findlay, and one-half to G. F. Verhulst, Woonsocket, R. I. Muffler cut-out. No. 1,424,624; Aug. 1.

Culver, Albert V., and W. A. Waddell, Frankfort, Ind. Weather strip. No. 1,424,283; Aug. 1.

Curtain Supply Company. (See Palt, Walter E., assignor.)

Daly, Hubert B. (See Tasso, C., and Daly.)

Danis, Romeo J., et al. (See Cryan, William H., assignor.)

De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)

Delco-Light Company. (See Midgley, Thomas, jr., assignor.)

Demko, Josef, Zabrokreky, and P. Greschner, Nemecky Pravno, Czecho-Slovakia. Watch and clock. No. 1,424,195; Aug. 1.

Dennis, Cyril, et al. (See Dobney, Ernest, assignor.)

Dennis, Francis E., et al. (See Dobney, Ernest, assignor.)

Denver Rock Drill Manufacturing Company, The. (See Clark, Omar E., assignor.)

Denver Rock Drill Manufacturing Company, The. (See Smith, William A., assignor.)

Diamond Air Springs Company. (See Gruse, Roland M., assignor.)

Dobney, Ernest, assignor of one-third to F. E. Dennis and one-third to C. Dennis, Toronto, Ontario, Canada. Box. No. 1,424,159; Aug. 1.

Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Steam boiler. No. 1,424,559; Aug. 1.

Doerr, Carl F., Yonkers, N. Y. Rotary glass cutter. No. 1,424,625; Aug. 1.

Domestic Electric Company, The. (See Jannell, William, assignor.)

Doolittle, Henry P., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,424,394; Aug. 1.

Dorr, Eugene P., and J. A. Kohn, North Fond du Lac, Wis. Clothesline. No. 1,424,626; Aug. 1.

Dorrance, Charles J., Chicago, Ill. Trolley harp. No. 1,424,716; Aug. 1.

Dorrance, Charles J., Chicago, Ill. Flexible trolley harp. No. 1,424,717; Aug. 1.

Drews, Herbert W., Danville, Ill. Mold. No. 1,424,627; Aug. 1.

Drummond, Arthur, Ryde's Hill, near Guildford, England. Abutment for the lead screws of lathes. No. 1,424,628; Aug. 1.

Drummond, Arthur, Ryde's Hill, near Guildford, England. Headstock of lathes. No. 1,424,629; Aug. 1.

Duckham, Arthur M., and A. T. Kent, London, England. Tunnel kiln. No. 1,424,560; Aug. 1.

Duggan, Thomas, jr., et al. (See Gagin, David, assignor.)

Dunbar, Harris T., Buffalo, N. Y. Self-bailing scow. No. 1,424,452; Aug. 1.

Dunkley, William H., Birmingham, England. Undercarriage for vehicles. No. 1,424,345; Aug. 1.

Dunn Auto Products Company. (See Dunn, Henry F., assignor.)

Dunn, Henry F., assignor to Dunn Auto Products Company, Indianapolis, Ind. Reflector-renewal insert. No. 1,424,561; Aug. 1.

Du Pont, E. I., de Nemours & Company. (See Bartleson, Thomas L., assignor.)

Du Pont, E. I., de Nemours & Company. (See La Motte, Arthur, assignor.)

Du Pont, E. I., de Nemours & Company. (See Rocker, George, assignor.)

Duntley, John W., Chicago, Ill. Hydropneumatic gas generator. No. 1,424,160; Aug. 1.

Durand Steel Locker Co. (See Vance, Walter N., assignor.)

Dyke, Darrell F., assignor to The Seng Company, Chicago, Ill. Bed-rail fastening. No. 1,424,284; Aug. 1.

Dyke, Darrell F., assignor to The Seng Company, Chicago, Ill. Sofa bed. No. 1,424,285; Aug. 1.

Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear wheel. No. 1,424,240; Aug. 1.

Eaton, Orrin O., Watsonville, Calif. Carrier. No. 1,424,630; Aug. 1.

Eby, Fred F. (See Campbell, P. A., Eby, and Price.)

Eclipse Interchangeable Counterbore Company, The. (See Smith, John H., assignor.)

Edmonds, Percy J., Winchester, England. Draw-bar coupling for tractors. No. 1,424,631; Aug. 1.

Eldridge, John E., Buffalo, N. Y. Broom. No. 1,424,241; Aug. 1.

Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Relay. No. 1,424,346; Aug. 1.

Evelyn, Harry C., Chicago, Ill., assignor, by mesne assignments, to Bifley Products Company. Bumper-supporting bracket. No. 1,424,395; Aug. 1.

Evans, John H., Northcarrollton, Miss. Antiskid device. No. 1,424,347; Aug. 1.

Fairfield Manufacturing Company. (See Blanchard, Adna F., assignor.)

Fankhauser, Charles A., Geneva, Switzerland. Process and machine for coating bonbons and the like. No. 1,424,286; Aug. 1.

Farber, Simon W., Brooklyn, N. Y. Ash tray and similar receptacle. No. 1,424,348; Aug. 1.

Farbenfabriken vorm. Friedr. Bayer and Co. (See Callsen, Jürgen, assignor.)

Farr, Joseph, St. Catharines, Ontario, Canada. Toy. No. 1,424,453; Aug. 1.

Farrel Foundry & Machine Company. (See Bowen, D. R., and Schnuck assignors.)

Faulk, Maximilian N., Philadelphia, Pa. Wheeled toy. No. 1,424,396; Aug. 1.

Faulkner, William P., Kansas City, Mo. Automobile locking device. No. 1,424,454; Aug. 1.

Fee, Orlando M., La Manda Park, Calif. Musical notation. No. 1,424,718; Aug. 1.

Feeny, Edmund J., Muncie, Ind. Automobile radiator. No. 1,424,455; Aug. 1.

Fegley, Thomas J., and W. S. Snyder, assignors to North Bros. Mfg. Co., Philadelphia, Pa. Screw driver. No. 1,424,456; Aug. 1.

Fegraeus, Ernst, Partillo, Gottenborg, Sweden. Scioptikon apparatus. No. 1,424,457; Aug. 1.

Fenn, Emory W., Chicago, Ill., assignor to The Peelle Company, Brooklyn, N. Y. Elevator door. No. 1,424,287; Aug. 1.

Fenn, Emory W., Chicago, Ill., assignor to The Peelle Company, Brooklyn, N. Y. Pass-type elevator door. No. 1,424,288; Aug. 1.

Fenton, Cecil, Brocton, England. Target for small-arms practice. No. 1,424,632; Aug. 1.

Ferguson, Mark S. (See Richardson, C. F., and Ferguson.)

Fial, Wojciech, Harvey, W. Va. Safety device for automobiles. No. 1,424,633; Aug. 1.

Fidelity Brass Manufacturing Company. (See Strobot, John J., assignor.)

Finckh, Fritz, and P. Krüger, Essen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Dumping receptacle. No. 1,424,634; Aug. 1.

Findlay, Harold B., et al. (See Cryan, William H., assignor.)

Fireman, Peter, Trenton, N. J., assignor to Magnetic Pigment Company. Pigment and producing same. No. 1,424,635; Aug. 1.

Fischer, Arthur I., assignor to M. H. Glauber, Cleveland, Ohio. Vitreous-china cock or faucet. No. 1,424,562; Aug. 1.

Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Machine for manufacturing safes. No. 1,424,289; Aug. 1.

Fisher, George F. (See Gilson, H. R., and Fisher.)

Fisher, Jack, Buffalo County, Nebr. Draining device for motor-vehicle radiators, etc. No. 1,424,636; Aug. 1.

Flanders, Warren B., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blading. No. 1,424,242; Aug. 1.

Flannery Bolt Company. (See Dodds, Ethan I., assignor.)

Flannery Bolt Company. (See Mennie, Robert S., assignor.)

Fleisher, Horace T., Elkins Park, Pa. Utilization of hosiery mill waste. No. 1,424,458; Aug. 1.

Foley, Frank W., Dollar Bay, Mich. Hammer. No. 1,424,161; Aug. 1.

Ford, Silas M., St. Paul, Minn. Roofing element. No. 1,424,459; Aug. 1.

Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Contact terminal. No. 1,424,290; Aug. 1.

Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for grinding curved trimming blades. No. 1,424,196; Aug. 1.

Fox, Frederick L., Washington, D. C. Dispensing tube and closure therefor and joining same. No. 1,424,243; Aug. 1.

Fox, William F., et al. (See Cryan, William H., assignor.)

Frank, David W., Bethlehem, Pa. Combination broom. No. 1,424,291; Aug. 1.

Frank, Otto H., Brooklyn, N. Y. Gas heater for sadirons. No. 1,424,460; Aug. 1.

Frankforter, George B., U. S. Army. Pressure indicator for internal-combustion engines. No. 1,424,461; Aug. 1.

Franklin, Frederick W. (See Baker, W. W., and Franklin.)

Franklin, H. H., Manufacturing Company. (See Wilkinson, John, assignor.)

Franklin, Leon, Evansville, Wis. Freight-car door. No. 1,424,292; Aug. 1.

Fraser, Warren F., Westboro, Mass. Mechanical movement. No. 1,424,397; Aug. 1.

Fraser, Warren F., Westboro, Mass. Grinder. No. 1,424,398; Aug. 1.

Fried. Krupp Aktiengesellschaft. (See Finckh, F., and Krüger, assignors.)

Fried. Krupp Aktiengesellschaft. (See Hauptmeyer, Friedrich, assignor.)

Fried. Krupp Aktiengesellschaft. (See Wissinger, Max, assignor.)

Friederich, Walter, Troisdorf, near Cologne, Germany. Manufacture of detonating caps for mining and military purposes. No. 1,424,462; Aug. 1.

Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene lamp. No. 1,424,463; Aug. 1.

Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene lamp. No. 1,424,464; Aug. 1.

Frost, Sydney G., Twickenham, England. Signaling unit for wireless telegraphy. No. 1,424,294; Aug. 1.

Frostead, John C., Duluth, Minn. Lantern. No. 1,424,293; Aug. 1.

Fryett, Rollo B., Bremerton, Wash. Mixing device. No. 1,424,849; Aug. 1.

Fulda, Edward, New York, N. Y. Wire reel. No. 1,424,651; Aug. 1.

Fults, Edwin. (See Bates, C. A., and Fults.)

Funk, Samuel M., Long Beach, Calif. Brick-cleaning machine. No. 1,424,719; Aug. 1.

Funke, Frank, Almonte, assignor to The Canadian Vaporizer Company, Limited, Toronto, Ontario, Canada. Rotary fuel mixer. No. 1,424,244; Aug. 1.

Gagin, David, assignor of one-fifth to T. J. Duggan, Boston, and one-fifth to J. A. Aicardi, jr., Dorchester, Mass. Lock for motor vehicles. No. 1,424,295; Aug. 1.

Gail, John F., assignor to Simmons Company, Kenosha, Wis. Bar cutting and straightening apparatus. No. 1,424,465; Aug. 1.

Gail, John F., Evanston, Ill., assignor to Simmons Company, Kenosha, Wis. Caster socket. No. 1,424,466; Aug. 1.

Gale, Edgar L., Bremerton, Wash. Display apparatus. No. 1,424,350; Aug. 1.

Gallagher, William. (See Crompton, J., and Gallagher.)

Gallaudet, Edson F., Providence, R. I. Electric gauge. No. 1,424,637; Aug. 1.

Galleazzi, Joseph, San Francisco, Calif. Educational and amusement device. No. 1,424,467; Aug. 1.

Garden, David A., St. Louis, Mo. Resilient tire. No. 1,424,468; Aug. 1.

Gardie, Paul, Chicago, Ill. Banjo. No. 1,424,296; Aug. 1.

Garrigue, William, & Company, Inc. (See Bodman, John W., assignor.)

Gates, Louis W., assignor to C. Cowles & Company, New Haven, Conn. Locking handle. No. 1,424,245; Aug. 1.

Gebhard, Frank M., Steele, N. Dak. Scale and dirt collector. No. 1,424,197; Aug. 1.

Gentile, Joseph, Brooklyn, N. Y. Gas fixture. No. 1,424,351; Aug. 1.

Getz, Edwin W., Loudonville, Ohio. Power cultivator. No. 1,424,297; Aug. 1.

Gifford, Marvin F., Newaygo, Mich. Lock for ignition circuits. No. 1,424,298; Aug. 1.

Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)

Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric switch. No. 1,424,720; Aug. 1.

Gillard, William, Stratford, Ontario, Canada. Cement-tile-making machine. No. 1,424,469; Aug. 1.

Gilson, Henry R., New Rochelle, N. Y., and G. F. Fisher, Providence, R. I., assignors to Revere Rubber Company. Method and apparatus for manipulating vulcanizing devices. No. 1,424,470; Aug. 1.

Giozza, Frank E., New Orleans, La. Automatic feed device for pearling cones. No. 1,424,638; Aug. 1.

Glauber, Morris H. (See Fischer, Arthur I., assignor.)

Glick, Enos, Paris, Ill. Nose ring. No. 1,424,563; Aug. 1.

Goble, Bert G., Tulsa, Okla. Inner tube. No. 1,424,162; Aug. 1.

Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Hairpin box. No. 1,424,471; Aug. 1.

Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Tube-cutting mechanism. No. 1,424,472; Aug. 1.

Goldberg, Solomon H., Chicago, Ill. Machine for making hairpins or similar articles. No. 1,424,473; Aug. 1.

Goldsmith, Emanuel O., Memphis, Tenn. Tie rack and cover. No. 1,424,564; Aug. 1.

Goodrich, B. F., Company, The. (See Humelbau, Robert J., assignor.)

Good, Robert F., New York, N. Y. Illuminating device for reproducing machines. No. 1,424,352; Aug. 1.

Goskar, Thomas A., Swansea, Wales. Apparatus for drying coal or other material. No. 1,424,565; Aug. 1.

Green, John A., et al. (See Mosier, James P., assignor.)

Greene, Charles E., Bangor, Me. Beater engine. No. 1,424,399; Aug. 1.

Greschner, Paul. (See Demko, J., and Grescher.)

Grey, Charles M., East Orange, N. J. Steering-wheel lock for motor vehicles. No. 1,424,353; Aug. 1.

Griffiths, William H., Hereford, England. Roof and the like covering. No. 1,424,566; Aug. 1.

Grogan, William F., Scranton, Pa. Safety-razor hone. No. 1,424,246; Aug. 1.

Grotenhuis, William J., Chicago, Ill., assignor, by mesne assignments, to Bifiex Products Company. Bumper bracket. No. 1,424,400; Aug. 1.

Gruss, Roland M., assignor to Diamond Air Springs Company, San Francisco, Calif. Shock absorber. No. 1,424,721; Aug. 1.

Guerin, Simone A., New York, N. Y. Glove. No. 1,424,639; Aug. 1.

Guild, John S. (See McIntosh, S., and Guild.)

Gulf Refining Company. (See McAfee, Almer M., assignor.)

Hall, Samuel N., Los Angeles, Calif. Thrust bearing. No. 1,424,640; Aug. 1.

Hammond, John H., jr., Gloucester, Mass. Marine trailer for radiant-energy-receiving systems. No. 1,424,641; Aug. 1.

Hanlon, John H., Somerville, and W. J. Hanlon, Fitchburg, Mass. Gauge glass. No. 1,424,642; Aug. 1.

Hanlon, William J. (See Hanlon, John H. and W. J.)

Hanna Engineering Works. (See Krause, William P., assignor.)

Hanson, Harry J., Amenia, N. Dak. Potato cutter. No. 1,424,474; Aug. 1.

Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Spring scale. No. 1,424,354; Aug. 1.

Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Masterpulsator mechanism for milking machines. No. 1,424,401; Aug. 1.

Harris, John, Lakewood, Ohio, assignor of one-half to J. R. Rose, Edgeworth, Pa. Blowpipe. No. 1,424,163; Aug. 1.

Harris, John, Lakewood, Ohio, assignor to Carbo-Oxygen Company, Pittsburgh, Pa. Blowpipe. No. 1,424,355; Aug. 1.

Hartleb, Rudolph C., Cambridge, assignor of one-half to E. Reiner, Baltimore, Md. Fish scaler. No. 1,424,722; Aug. 1.

Hartley, William R., New Haven, Conn. Knockdown metal shipping case. No. 1,424,723; Aug. 1.

Hartman Electrical Manufacturing Company, The. (See Hartman, Frank O., assignor.)

Hartman, Frank O., and C. T. Anderson, Mansfield, Ohio. Specific-gravity device. No. 1,424,403; Aug. 1.

Hartman, Frank O., assignor to The Hartman Electrical Manufacturing Company, Mansfield, Ohio. Circuit-controlling mechanism. No. 1,424,402; Aug. 1.

Hartman, Frank O., assignor to The Hartman Electrical Manufacturing Company, Mansfield, Ohio. Power system. No. 1,424,404; Aug. 1.

Hartman, Richard A., assignor to H. S. & S. Manufacturing Co., Hartford, Conn. Universal joint. No. 1,424,299; Aug. 1.

Harwood, George S., & Son. (See Howe, Joseph B., assignor.)

Hasemeier, Ralph E., Kokomo, Ind. Shock absorber for vehicles. No. 1,424,475; Aug. 1.

Hauf, George F. (See Naylor, C. G., and Hauf.)

Haughton, James, Vancouver, British Columbia, Canada. Back-viewing mirror for automobiles. No. 1,424,405; Aug. 1.

Hauptmeyer, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Stamp for thin sheet-metal plates such as dental plates and the like. No. 1,424,406; Aug. 1.

Hawkins, William E., jr., Pelham, N. Y. Wrench. No. 1,424,643; Aug. 1.

Hayes, John, Belle Vernon, Pa. Cuspidor. No. 1,424,247; Aug. 1.

Hays, Arthur V. (See Mobley, L. J., and Hays.)

Healy, Columbus, Chicago, Ill. Container for holding bank bills. No. 1,424,356; Aug. 1.

Heddon's, James, Sons, Inc. (See Stolley, William A., assignor.)

Heller, Milton L., Brooklyn, N. Y. Waistband. No. 1,424,724; Aug. 1.

Helm, Erasmus, Tuxedo Park, N. Y. Clasp for garters, etc. No. 1,424,301; Aug. 1.

Helms, Cassius B., assignor of forty per cent to I. M. Helms, Indianapolis, Ind. Folding swing. No. 1,424,302; Aug. 1.

Helms, Ivan M. (See Helms, Cassius B., assignor.)

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system for single-phase motors. No. 1,424,300; Aug. 1.

Helske, Taavi, San Francisco, Calif. Switch box. No. 1,424,407; Aug. 1.

Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Dynamometer. No. 1,424,357; Aug. 1.

Hendricks, Walter L., Aurora, Ill. Harvesting machine. No. 1,424,746; Aug. 1.

Henrikson, Frank W., Mulberry, Kans. Flying switch. No. 1,424,198; Aug. 1.

Herink, Henry J., assignor to The Relay Automatic Telephone Company, Limited, London, England. Telephone system. No. 1,424,644; Aug. 1.

Hesson, William W., Toronto, Ontario, Canada. Tobacco pipe. No. 1,424,408; Aug. 1.

Higgins, Charles D., Berkeley, Calif. Warming device for carburetors. No. 1,424,567; Aug. 1.

Higgins, William E., and G. S. Mann, Portsmouth, N. H. Train stop. No. 1,424,645; Aug. 1.

Hildebrand, Wilhelm, Berlin, assignor to Knorr-Bremse Aktiengesellschaft, Lichtenberg, Berlin, Germany. Brake apparatus for railway vehicles. No. 1,424,303; Aug. 1.

Hinnard, Oscar H. (See Nelson, A., and Hinnard.)

Hively, Hal H., Tar River, Okla. Sectional tire rim. No. 1,424,476; Aug. 1.

Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,424,304; Aug. 1.

Hofberg, John O., assignor of one-half to C. J. Steen, Philadelphia, Pa. Combined valve and pipe union. No. 1,424,305; Aug. 1.

Hoke, John I. (See Hoke, Lynn I. and J. I.)

Hoke, Lynn I. and J. I., South Bend, Ind. Pulverizer. No. 1,424,358; Aug. 1.

Holden, Joseph B., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,424,409; Aug. 1.

Holland, George L., St. Petersburg, Fla. Ice conserver. No. 1,424,477; Aug. 1.

Hopewell Brothers. (See Hopewell, Charles F., assignor.)

Hopewell, Charles F., assignor to Hopewell Brothers, Watertown, Mass. Remote-control mechanism. No. 1,424,410; Aug. 1.

Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio. Electric motor. No. 1,424,164; Aug. 1.

Hoover Suction Sweeper Company, The. (See Hoover, Howard E., assignor.)

Horvath, Joseph, Cleveland, Ohio. Fountain scrubbing brush. No. 1,424,478; Aug. 1.

Hoskins, William, Chicago, Ill. Paper filler. No. 1,424,306; Aug. 1.

Howe, Joseph B., Worcester, assignor to George S. Harwood & Son, Boston, Mass. Clutch. No. 1,424,165; Aug. 1.

Howie, Kenneth, Norristown, and W. O. Taylor, Limerick, assignors to Wildman Mfg. Co., Norristown, Pa. Cam mechanism for knitting machines. No. 1,424,725; Aug. 1.

Howley, Thomas H., et al. (See Yeagher, William A., jr., assignor.)

H. S. & S. Manufacturing Co. (See Hartman, Richard A., assignor.)

Hughey, Henry J., Jackman, Me. Animal trap. No. 1,424,307; Aug. 1.

Hughey, Robert H., Greenwood, S. C. Attachment for spindle bearings. No. 1,424,646; Aug. 1.

Humelbau, Robert J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cement shield for tire cores. No. 1,424,199; Aug. 1.

Hump Hairpin Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)

Huntoon, Josephine G. (See Huntoon, Lawrence A. and J. G.)

Huntoon, Lawrence A. and J. G., Springfield, Mass. Identification tag for babies. No. 1,424,747; Aug. 1.

Hurst, Willis T., Pittsburgh, Pa., assignor to Slag Rock Machine Company. Hook positioner. No. 1,424,479; Aug. 1.

Hurt, Henry H., Yonkers, assignor to Robeson Process Company, New York, N. Y. Making roads. No. 1,424,308; Aug. 1.

Ibach, Emil, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Hub-cap-locking device. No. 1,424,480; Aug. 1.

Isgrig, Walter V., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Bumper bar. No. 1,424,359; Aug. 1.

Isoardi, Peter, McCloud, Calif. Mortise joint. No. 1,424,481; Aug. 1.

Israel, Isaac, New York, N. Y. Nesting device. No. 1,424,647; Aug. 1.

Jackson, Linda M., executrix. (See Crawford, Harvey F.)

Jacob, Ernst A. H., San Antonio, Tex. Pump jack. No. 1,424,568; Aug. 1.

Jacobs, George, Detroit, Mich. Tire. No. 1,424,360; Aug. 1.

Jannell, William, West Park, assignor to The Domestic Electric Company, Cleveland, Ohio. Wire-insulating stripper. No. 1,424,482; Aug. 1.

Jaques, Arthur. (See West, J. H., and Jaques.)

Jespersen, Thomas, Neenah, Wis., assignor, by mesne assignments, to Lincoln Trust Company, New York, N. Y. Recovering waste paper. No. 1,424,411; Aug. 1.

Johnson, Alvia E. (See Cole, J. W., and Johnson.)

Johnson, Carl B., Winchester, assignor to Lamb & Nash Company, Boston, Mass. Machine for cutting sheets or layers. No. 1,424,309; Aug. 1.

Johnson, Frank E., Chicago, Ill. Automobile. No. 1,424,412; Aug. 1.

Johnson, George W., Gallatin, Mo. Auxiliary chain fastener. No. 1,424,569; Aug. 1.

Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical coil. No. 1,424,726; Aug. 1.

Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,424,200; Aug. 1.

Johnston, Richard A., assignor to Barron G. Collier Inc., New York, N. Y. Frame for advertising cards. No. 1,424,570; Aug. 1.

Jones, Albert W., Wichita, Kans. Fan-belt pulley for internal-combustion motors. No. 1,424,413; Aug. 1.

Jordon, Jerry M., Crestview, Fla. Means for extracting crude spirits and rosin from yellow and green pine stumps. No. 1,424,248; Aug. 1.

Jordan, Walter E. B., Wilson, N. C. Huller rib. No. 1,424,727; Aug. 1.

Judy, Joseph E., McKeesport, Pa. Drilling machine for tapping out the hot metal of furnaces and cupolas. No. 1,424,483; Aug. 1.

Justrite Manufacturing Company. (See Frisbie, William J., assignor.)

Kaley, John H., Schenectady, N. Y. Vehicle signal. No. 1,424,652; Aug. 1.

Kantner, Howard E., Glenside, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Transfer drum for conveyers. No. 1,424,249; Aug. 1.

Kanpel, William J., Milwaukee, Wis. Shoe-counter flexor. No. 1,424,166; Aug. 1.

Kasser, Morris, San Francisco, Calif. Preserved egg and producing the same. No. 1,424,484; Aug. 1.

Kaufmann, Siegfried H., London, England. Manicure case. No. 1,424,571; Aug. 1.

Kazenmaier, August, assignor to Firm Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Flywheel magneto. No. 1,424,201; Aug. 1.

Keith, Lewis W., Greenville, S. C. Wrench. No. 1,424,202; Aug. 1.

Keller, Huldreich, deceased, by K. Keller, administratrix, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Gear wheel. No. 1,424,203; Aug. 1.

Keller, Katharina, administratrix. (See Keller, Huldreich.)

Kelly, John F., assignor to Thomas Maddock's Sons Co., Trenton, N. J. Lavatory. No. 1,424,250; Aug. 1.

Kelly, John F., assignor to Thomas Maddock's Sons Co., Trenton, N. J. Faucet attachment for lavatories. No. 1,424,251; Aug. 1.

Kennedy, Joseph. (See Ogden, J. E., and Kennedy.)

Kent, Arthur T. (See Duckham, A. M., and Kent.)

Kerr, Bevie. (See Williams, L. S., and Kerr.)

Kesterson, Mat W., Goree, and J. H. Latimer, Weinert, Tex. Header. No. 1,424,648; Aug. 1.

Kestner Evaporator Company. (See Mellor, Ralph, assignor.)

King, John F., Kalispell, Mont. Awning-roller construction. No. 1,424,572; Aug. 1.

King, Henry A., Baltimore, Md. Turbine. No. 1,424,167; Aug. 1.

Kinnard, Laban B., Jacksonville, Tex. Air cycle. No. 1,424,653; Aug. 1.

Kinzie, Phillip A., Littleton, Colo. Cranking mechanism for tractor, truck, and other heavy-duty engines. No. 1,424,485; Aug. 1.

Kinzie, Phillip A., Littleton, Colo. Fuel-feeding apparatus. No. 1,424,486; Aug. 1.

Kitson, Sarah M., Philadelphia, Pa. Hair fastener. No. 1,424,654; Aug. 1.

Kline, Albert, Chicago, Ill. Freight-car lock. No. 1,424,168; Aug. 1.

Knight, Herbert, New York, N. Y., and C. A. Brewer, Noroton Heights, Conn.; said Brewer assignor to said Knight. Process of and apparatus for soil treatment. No. 1,424,728; Aug. 1.

Knorr-Bremse Aktiengesellschaft. (See Hildebrand, Wilhelm, assignor.)

Koehring Company. (See Koehring, Philip A., assignor.)

Koehring, Philip A., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis. Machine for laying reenforcing for concrete pavement. No. 1,424,169; Aug. 1.

Kohn, John A. (See Dore, E. P., and Kohn.)

Koppelman, Harold I. (See Bruder, Edmund, assignor.)

Kowastch, Ambrose, Berlin-Charlottenburg, Germany. Fuse for blasting with a liquefied gas and producing the same. No. 1,424,487; Aug. 1.

Kowastch, Ambrose, Berlin-Charlottenburg, Germany. Cartridge for blasting with liquid air and producing the same. No. 1,424,488; Aug. 1.

Krause, William P., assignor to Hanna Engineering Works, Chicago, Ill. Trolley. No. 1,424,361; Aug. 1.

Krebs, Henry J., Dayton, Ohio. Indicator. No. 1,424,310; Aug. 1.

Kriesel, Gustave F., assignor, by mesne assignments, to E. V. Safstrom, Minneapolis, Minn. Attachment for boring and milling machines. No. 1,424,489; Aug. 1.

Krogh, C. A., et al., legatees. (See Krogh, Ferdinand.)

Krogh, Ferdinand W., deceased; M. L. Krogh, F. J. Clarke, C. A. Krogh, and O. Poulsen, legatees by court order of distribution of the estate of said Ferdinand W. Krogh, deceased, assignors to Krogh Pump and Machinery Company, San Francisco, Calif. Lubricating system for deep-well pumps. No. 1,424,362; Aug. 1.

Krogh, Mary L., et al., legatees. (See Krogh, Ferdinand W.)

Krogh Pump and Machinery Company. (See Krogh, Ferdinand W., assignor.)

Krohn, William, Buffalo, N. Y. Powder puff. No. 1,424,649; Aug. 1.

Kriger, Paul. (See Finckh, F., and Kriger.)

Kubik, Anthony, Dickinson, N. Dak. Garage-door-operating mechanism. No. 1,424,650; Aug. 1.

Kuns, Charles A., Dubuque, Iowa. Door hanger. No. 1,424,311; Aug. 1.

Kurtz, Stewart S., jr., Canton, Ohio. Metallic rod packing. No. 1,424,655; Aug. 1.

Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel and making same. No. 1,424,490; Aug. 1.

Laitner, A., & Sons. (See Yaeger, Carl, assignor.)

Lamb & Nash Company. (See Johnson, Carl B., assignor.)

Lamb, Karl B., New York, N. Y., assignor to The American Cotton Oil Company. Paint composition. No. 1,424,414; Aug. 1.

Lamb, Karl B., New York, N. Y., assignor to The American Cotton Oil Company. Pigment and pigment composition, etc. No. 1,424,729; Aug. 1.

La Motte, Arthur, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting cap. No. 1,424,204; Aug. 1.

Lancaster, John H. (See Mason, Ralph K., assignor.)

Langevin, Orphée, New York, N. Y. Aircraft. No. 1,424,491; Aug. 1.

Larson, Olaffa A., Butte, Mont. Candle holder. No. 1,424,573; Aug. 1.

Larson, Robert, Vancouver Island, British Columbia, Canada. Undercutting-saw support. No. 1,424,415; Aug. 1.

Latimer, James H. (See Kesterson, M. W., and Latimer.)

Lawlor, William T., Jersey City, N. J. Switch-heater cover. No. 1,424,656; Aug. 1.

Lee, Dwight B., assignor to Motor Products Corporation, Detroit, Mich. Forming soldered seamed tubing. No. 1,424,170; Aug. 1.

Lee, Dwight B., assignor to Motor Products Corporation, Detroit, Mich. Machine for manufacturing tubing. No. 1,424,171; Aug. 1.

Leonard, George I., Chicago, Ill. Compressor. No. 1,424,312; Aug. 1.

Leschen, A., & Sons Rope Company. (See Leschen, Harry J., assignor.)

Leschen, Harry J., Webster Groves, assignor to A. Leschen & Sons Rope Company, St. Louis, Mo. Calipers. No. 1,424,492; Aug. 1.

Letherby, John A., Midland, Ontario, Canada. Divided rail. No. 1,424,657; Aug. 1.

Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Wrapping and machine therefor. No. 1,424,363; Aug. 1.

Levy, Samuel S., Mattapan, assignor to S. Levy, Boston, Mass. Building construction. No. 1,424,172; Aug. 1.

Levy, Sarah. (See Levy, Samuel S., assignor.)

Leyner, John G., deceased, by L. M. Leyner, administratrix, Littleton, assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo. Tractor. No. 1,424,493; Aug. 1.

Leyner, John G., deceased, by L. M. Leyner, administratrix, Littleton, assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo. Driving mechanism for the ground-treading members of traction engines. No. 1,424,494; Aug. 1.

Leyner, John G., deceased, by L. M. Leyner, administratrix, Littleton, assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo. Automatically-operating oiling mechanism for the interior motor-driven parts of tractors. No. 1,424,495; Aug. 1.

Leyner, Lina M., administratrix. (See Leyner, John G.)

Leyner Tractor and Manufacturing Company. (See Leyner, John G., assignor.)

Lichtenthaeler, Frank E., Newton Highlands, assignor to The Walter E. Lummus Company, Boston, Mass. Distilling column. No. 1,424,173; Aug. 1.

Lidstone, Edward S., Providence, R. I. Molding. No. 1,424,658; Aug. 1.

Liedabrand, Samuel E., Springfield, Ill. Trailer connection. No. 1,424,496; Aug. 1.

Lincoln Trust Company. (See Jespersen, Thomas, assignor.)

Linder, Harry N. J., Chicago, Ill. Figure toy. No. 1,424,659; Aug. 1.

Linebarger, Charles E., Chicago, Ill. Hydrometer. No. 1,424,730; Aug. 1.

Linebarger, Charles E., Chicago, Ill. Battery-temperature controller. No. 1,424,731; Aug. 1.

Lipse, August, and J. Mangiaracina, New Orleans, La. Street marker. No. 1,424,416; Aug. 1.

Lister, Charles H., North St. Paul, Minn. Hobbyhorse. No. 1,424,364; Aug. 1.

Little, John R. (See Stern, William F., assignor.)

Locomotive Feed Water Heater Company. (See Averill, Earl A., assignor.)

Loftin, Edward H., Washington, D. C., and H. H. Lyon, Hyattsville, Md. Radiosignaling. No. 1,424,365; Aug. 1.

Lo Verde, John, and A. Tubiolo, assignors of one-seventh to C. J. Mondo, Rochester, N. Y. Child's vehicle. No. 1,424,497; Aug. 1.

Luedke, Julius C., Cedar Rapids, Iowa. Safety signal device for boilers. No. 1,424,313; Aug. 1.

Lufkin Rule Company, The. (See Schleicher, John A., assignor.)

Lummus, Walter E., Company, The. (See Lichtenthaeler, Frank E., assignor.)

Lundberg, Axel E., Sundsvall, Sweden. Kitchen range. No. 1,424,660; Aug. 1.

Lynch, James E., assignor to Page & Hill Company, Minneapolis, Minn. Pole-puncturing machine. No. 1,424,498; Aug. 1.

Lynn, Jake, Macon, Ga. Adjustable hoop. No. 1,424,661; Aug. 1.

Lyon, Henry H. (See Loftin, E. H., and Lyon.)

McAfee, Almer M., Bayonne, N. J., assignor to Gulf Refining Company, Pittsburgh, Pa. Converting oils. No. 1,424,574; Aug. 1.

McArdle, Fred W., Boston, Mass. Bending press. No. 1,424,366; Aug. 1.

McCallus, John P., Weatherly, Pa. Valve silencer. No. No. 1,424,205; Aug. 1.

McCulloch, Samuel, assignor to C. A. Mullen, San Francisco, Calif. Double-seaming machine. No. 1,424,499; Aug. 1.

McCulloch, Samuel, assignor to C. A. Mullen, San Francisco, Calif. Cooker. No. 1,424,500; Aug. 1.

McCullough, Ira J., Tucson, Ariz. Well drill. No. 1,424,662; Aug. 1.

McDermott, Henry, Leadville, Colo. Multiple-rim resilient wheel. No. 1,424,252; Aug. 1.

McDonald, William, Kansas City, Mo. Steam-radiator vent. No. 1,424,663; Aug. 1.

McFall, James R., Cleveland, Ohio. Wheel for power-propelled vehicles. No. 1,424,367; Aug. 1.

McIntosh, Stewart, Monkseaton, and J. S. Guild, Newcastle-upon-Tyne, England. Clutch for windlasses. No. 1,424,501; Aug. 1.

McLendon, Oliver P., and H. G. Smith, Kingsville, Tex.; said Smith assignor to said McLendon. Ball-bearing car sash. No. 1,424,502; Aug. 1.

McMurdo, John, Winnipeg, Manitoba, Canada. Grain door. No. 1,424,206; Aug. 1.

MacDonald John C., et al. (See Brown, Theodore H., assignor.)

Macintyre, Louis G., Broughty Ferry, Scotland. Sliver lap-feeding mechanism. No. 1,424,580; Aug. 1.

Mackey, James D., Columbia, S. C. Clarinet. No. 1,424,253; Aug. 1.

MacPherson, James, jr., New York, N. Y. Stoker. No. 1,424,575; Aug. 1.

MacPherson, James W., Los Angeles, Calif. Breath-exercising device. No. 1,424,732; Aug. 1.

Maddock's Thomas Sons Co. (See Kelly, John F., assignor.)

Mae, Anton, New Haven, Conn. Belt buckle. No. 1,424,417; Aug. 1.

Magnetic Pigment Company. (See Fireman, Peter, assignor.)

Malarkey, James A., Portland, Oreg. Combined kitchen and ironing table. No. 1,424,418; Aug. 1.

Malarkey, James A., Portland, Oreg. Knockdown folding table. No. 1,424,419; Aug. 1.

Mallory, Harry C., Bellport, N. Y. Cooling system for internal-combustion engines. No. 1,424,664; Aug. 1.

Manges, D. G., & Company. (See Manges, Duff G., assignor.)

Manges, Duff G., Maryville, assignor to D. G. Manges & Company, Vose, Tenn. Sheave block. No. 1,424,503; Aug. 1.

Mangiaracina, Joseph. (See Lipse, A., and Mangiaracina.)

Mann, George S. (See Higgins, W. E., and Mann.)

Manning, William P., Los Angeles, Calif. Legging. No. 1,424,207; Aug. 1.

Manzel, Charles W., Buffalo, N. Y. Lubricating gun. No. 1,424,504; Aug. 1.

Marien, Charles A., St. Louis, Mo. Vehicle wheel. No. 1,424,314; Aug. 1.

Martin, Harold G., Philadelphia, Pa., and M. H. Newgirg, Baltimore, Md. Bushing tightener for locomotive connecting rods. No. 1,424,505; Aug. 1.

Martin, Harry W., and L. M. Calhoun, Gilbert, La. Locking device for demountable rims. No. 1,424,576; Aug. 1.

Martin, John D., Rock Island, Ill. Cue-tip cutter. No. 1,424,506; Aug. 1.

Martin, Jorgen W., Mora, Minn. Antirattler. No. 1,424,577; Aug. 1.

Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Substation telephone circuit. No. 1,424,368; Aug. 1.

Mason, Ralph K., Bantam, assignor of one-half to J. H. Lancaster, Litchfield, Conn. Safety switch. No. 1,424,578; Aug. 1.

Mason, Ralph K., Bantam, assignor of one-half to J. H. Lancaster, Litchfield, Conn. Switch casing and cover lock. No. 1,424,579; Aug. 1.

Massachusetts Automobile Club Trust, Trustees of. (See Schuyler, P. L., and Snow, assignors.)

Meidal, Edward, London, England. Apparatus for use in the repair of roads and the like. No. 1,424,507; Aug. 1.

Mellor, Ralph, assignor to Kestner Evaporator Company, Philadelphia, Pa. Evaporator. No. 1,424,254; Aug. 1.

Mennie, Robert S., Chicago, Ill., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,424,733; Aug. 1.

Mepstead, George S., Mortlake, London, England. Friction driving gear for motor vehicles. No. 1,424,581; Aug. 1.

Metzger, Willye C., Mobile, Ala. Ash pan. No. 1,424,508; Aug. 1.

Midgley, Thomas, jr., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Fuel tank. No. 1,424,369; Aug. 1.

Mihalyi, Joseph. (See Craven, F. S., and Mihalyi.)

Miller, Charles J., Moselle, Miss. Railway signal device. No. 1,424,509; Aug. 1.

Miller, Herbert C., Pittsburgh, Pa. Artificial limb. No. 1,424,734; Aug. 1.

Miller, Robert L., Spokane, Wash. Valve mechanism for automatic train-control apparatus. No. 1,424,420; Aug. 1.

Miller Rubber Company, The. (See Stoner, Arthur W., assignor.)

Minnier, Blythe J., Watertown, N. Y., and H. F. Bickel, Plainfield, N. J. Automatic train-pipe connector. No. 1,424,582; Aug. 1.

Mobley, Lawrence J., and A. V. Hays, Springfield, Mo. Transmission gear. No. 1,424,208; Aug. 1.

Mochar Leather Goods Corporation. (See Charsky, Benjamin, assignor.)

Moffat, John Q., et al. (See Wyckoff, Clyde E., assignor.)

Mondo, Charles J. (See Lo Verde, J., and Tubiolo, assignors.)

Moore, Benjamin S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, Bearing. No. 1,424,315; Aug. 1.

Moore, John M., Laurel, Miss. Singletree. No. 1,424,255; Aug. 1.

Mordica, James F., Philadelphia, Pa. Life-saving suit. No. 1,424,174; Aug. 1.

Morey, Chester T., Providence, R. I. Apparatus for sorting machine elements. No. 1,424,370; Aug. 1.

Morrison, Alfred J., Denver, Colo., assignor to Stokes and Smith Company, Summerdale, Philadelphia, Pa. Turning finger for box-covering machines. No. 1,424,316; Aug. 1.

Morse, William F., assignor to S. R. Parry, Rochester, N. Y. Paper-cutting mechanism. No. 1,424,175; Aug. 1.

Moschos, John, Demopolis, Ala. Safety device for elevators. No. 1,424,665; Aug. 1.

Mosier, James P., St. Francois, assignor, by mesne assignments, of one-fourth to himself, one-eighth to E. R. Campbell, one-eighth to J. A. Green, Desloge, Mo., and one-half to National Lead Company, St. Louis, Mo. Rotary car dump. No. 1,424,510; Aug. 1.

Motor Products Corporation. (See Lee, Dwight B., assignor.)

Motor Products Corporation. (See Pritchard, William S., assignor.)

Mt. Carmel Manufacturing Company, The. (See Somers, William A., assignor.)

Muehle, Herman, Cleveland, Ohio. Hatpin. No. 1,424,666; Aug. 1.

Mueller, Arthur W., Cincinnati, Ohio. Canopy for automobiles. No. 1,424,421; Aug. 1.

Mullen, Charles A. (See McCulloch, Samuel, assignor.)

Mulvey, Francis, et al. (See Yeagher, William A., jr., assignor.)

Murch, Charles S., Highland Park, Mich. Bottle protector. No. 1,424,667; Aug. 1.

Murphy, Nicholas, Detroit, Mich. Curtain-window light. No. 1,424,511; Aug. 1.

Murray, John, London, England. Machine for flattening or straightening book covers or cases and the like. No. 1,424,583; Aug. 1.

Musgrave, Mark, Pittsburg, Kans. Valve-spring compressor. No. 1,424,512; Aug. 1.

Myers, Clyde J., assignor to Swartz Electric Company, Indianapolis, Ind. Electric-current-changing means. No. 1,424,256; Aug. 1.

Myers, Morton E., assignor to The Precision Machine Co. Inc., New York, N. Y. Magazine for cinematographic projectors. No. 1,424,735; Aug. 1.

Nakasora, Seibachiro, Niles, Calif. Direction indicator. No. 1,424,513; Aug. 1.

National Biscuit Company. (See Beers, F., and Powell, assignors.)

National Lead Company et al. (See Mosier, James P., assignor.)

Navone, John O., Oakland, Calif. Reclaiming rubber. No. 1,424,668; Aug. 1.

Naylor, Carl G., and G. F. Hauf, assignors to Robertson Brothers Manufacturing Company, Chicago, Ill. Trough. No. 1,424,371; Aug. 1.

Neely, Jessey P., Adams, Tenn. Cultivator attachment. No. 1,424,669; Aug. 1.

Neese, Earl C. (See Neese, Otis V., E. L., and E. C.)

Neese, Elo L. (See Neese, Otis V., E. L., and E. C.)

Neese, Otis V., E. L., and E. C., Round Top, Tex. Superlocking hollow tile. No. 1,424,372; Aug. 1.

Nelson, Andrew, and O. H. Hinnard, Chattanooga, Tenn. Fire-grate oven attachment. No. 1,424,584; Aug. 1.

Nesser & Company. (See Nesser, Nicholas, assignor.)

Nesser, Nicholas, assignor to Nesser & Company, Chicago, Ill. Golf bag. No. 1,424,317; Aug. 1.

Nester, Ellen D., Gardner, Mass. Child's clothing. No. 1,424,318; Aug. 1.

Nettles, Lu E., Elbridge, Tenn. Cotton-picker's sack. No. 1,424,670; Aug. 1.

Newgirg, Michael H. (See Martin, H. G., and Newgirg.)

New Haven Clock Co. (See Porter, Wilson E., assignor.)

New York Wire & Spring Company. (See Wernig, Frederick A., assignor.)

Nicholson, Eberhardt P. (See Roth, C. T., and Nicholson.)

Nicholson, George B., Pittsburgh, Pa. Multiple-chamber visible-flow oil pump. No. 1,424,176; Aug. 1.

Nielsen, Hans H., Kolding, Denmark. Motor. No. 1,424,585; Aug. 1.

Nilson, Leonard, Wayzata, Minn. Tractor. No. 1,424,177; Aug. 1.

Nilsson, Carl J., Cambridge, Mass. Ice-cream cabinet. No. 1,424,373; Aug. 1.

Noble, Charles H., Bad Axe, Mich. Automobile signal. No. 1,424,374; Aug. 1.

North Bro's. M'f'g. Co. (See Fegley, T. J., and Snyder, assignors.)

Northey, John P., Toronto, Ontario, Canada. Key bolt. No. 1,424,319; Aug. 1.

Northfield Iron Company. (See Compton, Glenn A., assignor.)

Noyes, Charles H., Mondamin, Iowa. Wrench. No. 1,424,178; Aug. 1.

Nusbaum, George W., et al. (See Nusbaum, Wilbur J., assignor.)

Nusbaum, Wilbur J., Washington, D. C., assignor of one-third to G. W. Nusbaum, Takoma Park, Md., and one-third to R. L. Baxter, Washington, D. C. Automobile tool. No. 1,424,514; Aug. 1.

Oakley, George, assignor to Consolidated Car Heating Company, Albany, N. Y. Door-engine control circuits. No. 1,424,257; Aug. 1.

Ogden, John E., Cornwall, and J. Kennedy, Richmond Hill, N. Y.; said Kennedy assignor to said Ogden. Metal-working machine. No. 1,424,671; Aug. 1.

Ogrisseck, George A., Jersey City, N. J. Propeller. No. 1,424,672; Aug. 1.

Ohio Brass Company, The. (See Austin, Arthur O., assignor.)

Okins, Elliott M., Auburn, Wash. Fuel-feeding apparatus. No. 1,424,258; Aug. 1.

Orendorff, Oliver H., Bloomington, Ill. Latch device. No. 1,424,673; Aug. 1.

Orr, Robert P., Albany, N. Y. Arrow. No. 1,424,674; Aug. 1.

Ovenshire, Charles E., et al. (See Brown, Theodore H., assignor.)

Ovenshire, Edward C., et al. (See Brown, Theodore H., assignor.)

Pabst, Josef, Zurich, Switzerland. Cloth holder. No. 1,424,209; Aug. 1.

Pack, Walter, Takoma Park, Md., assignor to C. A. Rogers, Hartford, Conn. Sensitized-element package for photographic apparatus. No. 1,424,736; Aug. 1.

Packard Motor Car Company. (See Doolittle, Henry P., assignor.)

Packard Motor Car Company. (See Vincent, Jesse G., assignor.)

Packard Motor Car Company. (See Woolson, Lionel M., assignor.)

Page & Hill Company. (See Lynch, James E., assignor.)

Page, Stephen E., Brooklyn, assignor to United Concrete Pipe Co., New York, N. Y. Pipe joint. No. 1,424,586; Aug. 1.

Palt, Walter E., assignor to Curtain Supply Company, Chicago, Ill. Releasing handle for vestibule curtains. No. 1,424,375; Aug. 1.

Paolucci, Henry E., San Antonio, Tex. Automatic-feeding self-adjusting pecan cracker. No. 1,424,675; Aug. 1.

Parkin, John, jr., San Rafael, Calif. Rheostat. No. 1,424,515; Aug. 1.

Parry, Samuel R. (See Morse, William F., assignor.)

Parsons, Clarence B., Sweet Springs, Mo. Wrench. No. 1,424,676; Aug. 1.

Peelle Company, The. (See Fenn, Emory W., assignor.)

Penrod, William F., Cincinnati, Ohio., assignor to A. J. Wissel, trustee. Transmission-gear system. No. 1,424,210; Aug. 1.

Perry, Joseph M., Meridian, Miss. Display rack. No. 1,424,587; Aug. 1.

Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cooling system. No. 1,424,259; Aug. 1.

Peters, Maurice M., Coventry, England. Underframe or chassis for cycle side cars and the like. No. 1,424,588; Aug. 1.

Pinto, Joseph. (See Pinto, Vincent and J.)

Pinto, Vincent and J., Philadelphia, Pa. Speaking clock. No. 1,424,516; Aug. 1.

Pomillo, Alessandro. (See Cataldi, Beniamino, assignor.)

Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Rod gong for striking clocks. No. 1,424,677; Aug. 1.

Potts, Peter T., Chicago, Ill., assignor to The Vortex Mfg. Co. Sanitary sundae-cup holder and dispenser. No. 1,424,517; Aug. 1.

Poulson, Oscar, et al., legatees. (See Krogh, Ferdinand W.)

Powell, Howard L. (See Beers, F., and Powell.)

Pratt, William E. (See Barker, George R., assignor.)

Precision Machine Co., The. (See Myers, Morton E., assignor.)

Price, Samuel H. (See Campbell, P. A., Eby, and Price.)

Price, Virgil M., San Francisco, Calif. Concrete-mixer loader. No. 1,424,737; Aug. 1.

Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Tube-cutting mechanism. No. 1,424,179; Aug. 1.

Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Tube-closing mechanism. No. 1,424,180; Aug. 1.

Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Method and machine for soldering tubing. No. 1,424,181; Aug. 1.

Proctor & Schwartz, Incorporated. (See Kantner, Howard E., assignor.)

Pugh, John V., Coventry, assignor to Rudge-Whitworth Limited, Coventry, Warwick, England. Rotational driving connection such as detachable wheel hubs. No. 1,424,211; Aug. 1.

Pullin, Cyril G., London, England. Supplementary carburetor for starting internal-combustion engines. No. 1,424,320; Aug. 1.

Purdy, Hugh, Belfast, Ireland. Toy building block. No. 1,424,376; Aug. 1.

Quinlan, Paul F., jr., Elkins Park, Pa. Register dial. No. 1,424,518; Aug. 1.

Rachmil, Robert. (See Winderman, A. A. L., and Rachmil.)

Ray, Frederick, Greenwich, Conn. Packing ring. No. 1,424,377; Aug. 1.

Rea-Patterson Milling Company. (See Woolcott, Alfred W., assignor.)

Redford, Mattie K., Lexington, Ky. Rompers. No. 1,424,589; Aug. 1.

Redman, Lawrence V., A. J. Weith, F. P. Brock, Evanston, assignors to Redmanol Chemical Products Company, Chicago, Ill. Phenolic condensation product article and manufacture. No. 1,424,738; Aug. 1.

Redmanol Chemical Products Company. (See Redman, L. V., Weith, and Brock, assignors.)

Reeves, John B., Los Angeles, Calif. Burner. No. 1,424,739; Aug. 1.

Reimann, Jacques, assignor to Tubes Limited, Birmingham, England. Rolling mill. No. 1,424,678; Aug. 1.

Reiner, Emanuel. (See Hartleb, Rudolph C., assignor.)
Relay Automatic Telephone Company, Limited, The. (See Herink, Henry J., assignor.)
Remington, Alfred M., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Hack saw. No. 1,424,378; Aug. 1.
Remington Typewriter Company. (See Holden, Joseph B., assignor.)
Renault, Louis. (See Saives, Léon, assignor.)
Revere Rubber Company. (See Gilson, H. R., and Fisher, assignors.)
Reynolds Spring Company. (See Van Hove, Desire H., assignor.)
Rhenstrom, Anthony, Kenosha, Wis., and O. H. Watkins, Marshalltown, Iowa, assignors to H. Richardson, Chicago, Ill. Wire-link-fabric machine. No. 1,424,379; Aug. 1.
Richards, Frank F., assignor to Brown & Bigelow, St. Paul, Minn. Releasable fingers for offset presses. No. 1,424,260; Aug. 1.
Richards, John P., Tulsa, Okla. Combined desk and chair. No. 1,424,380; Aug. 1.
Richardson, Alfred D., et al. (See Busby, Robert S., assignor.)
Richardson, Charles F., and M. S. Ferguson, Kokomo, Ind. Car fender or guard. No. 1,424,590; Aug. 1.
Richardson, George J., assignor to American Spotless Street System Inc., Petersburg, Va. Combined trash receptacle and advertising carrier. No. 1,424,519; Aug. 1.
Richardson, George J., and W. Sachs, assignors to American Spotless Street System, Inc., Petersburg, Va. Combined trash receptacle and advertising carrier. No. 1,424,520; Aug. 1.
Richardson, Henry. (See Rhenstrom, A., and Watkins, assignors.)
Ridenour, Perry J., Silver City, N. Mex. Automobile attachment. No. 1,424,679; Aug. 1.
Riviere, Hal, Columbus, Ga. Combined tension device and guide for thread. No. 1,424,182; Aug. 1.
Robert Bosch Aktiengesellschaft. (See Kazenmaier, August, assignor.)
Robert Bosch Aktiengesellschaft. (See Schäfer, Max, assignor.)
Roberts, John W., Grants Pass, Oreg. Tool for contracting or expanding demountable rims. No. 1,424,680; Aug. 1.
Roberts, John W. (See Case, G. W., and Roberts.)
Robertson Brothers Manufacturing Company. (See Naylor, C. G., and Hauf, assignors.)
Robeson Process Company. (See Hurt, Henry H., assignor.)
Rocker, George, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Controlling the stabilizer content of cellulosic colloids. No. 1,424,212; Aug. 1.
Rogers, Charles A. (See Pack, Walter, assignor.)
Rose, Jacob R., Philadelphia, Pa. Portable phonograph. No. 1,424,681; Aug. 1.
Rose, James R. (See Harris, John, assignor.)
Röseke, Otto, Stuttgart, Germany. Alarm clock with preceding alarm. No. 1,424,213; Aug. 1.
Röseke, Otto, Stuttgart, Germany. Alarm clock. No. 1,424,214; Aug. 1.
Roth, Charles T., Newark, N. J., and E. P. Nicholson, Richmond Hill, N. Y. Spark plug. No. 1,424,591; Aug. 1.
Rowe, Marvin L., Albany, N. Y. Protective covering for automobile drivers. No. 1,424,215; Aug. 1.
Rowland, Valay E., Indianapolis, Ind. Floor structure. No. 1,424,422; Aug. 1.
Rudge-Whitworth Limited. (See Pugh, John V., assignor.)
Rudin, Karl V., Stockholm, Sweden. Full-stroke mechanism for calculating machines. No. 1,424,183; Aug. 1.
Rudolph, John L., Delano, Minn. Bushing remover. No. 1,424,261; Aug. 1.
Rudy, John, New Britain, Conn. Pipe wrench. No. 1,424,381; Aug. 1.
Rust, Charles H., Newark, N. J. Automobile lock. No. 1,424,262; Aug. 1.
Rutter, Harley E., Pittsburgh, Pa. Wrench. No. 1,424,521; Aug. 1.
Sachs, Walter. (See Richardson, G. J., and Sachs.)
Safstrom, Esther V. (See Kriesel, Gustave F., assignor.)
Said, Jesse M., assignor to Corning Glass Works, Corning, N. Y. Obtaining glass. No. 1,424,184; Aug. 1.
Saives, Léon, assignor to L. Renault, Billancourt, Seine, France. Speed-limiting mechanism for vehicles. No. 1,424,523; Aug. 1.
Salmon, Thomas D. (See Schwarz, P. E., and Salmon.)
Salzmann, Ernst, Solothurn, Switzerland. Inkstand. No. 1,424,216; Aug. 1.
Samaia, Dino, Milan, Italy. Automatic block apparatus for electric tramways and railways. No. 1,424,217; Aug. 1.
Sanborn, Cora A., Brooklyn, N. Y. Liquid separator. No. 1,424,522; Aug. 1.
Sanborn Sectional Weight Co. (See Sanborn, William S., assignor.)
Sanborn, William S., assignor to Sanborn Sectional Weight Co., Inc., New York, N. Y. Sash weight. No. 1,424,592; Aug. 1.
Sanderson, Thomas E., Woodbury, N. J. Automobile accessory. No. 1,424,382; Aug. 1.
Sandlin, Charles, Denison, Tex. Electrically-operated handsaw, buffer, etc. No. 1,424,593; Aug. 1.
Sargent & Company. (See Voight, Henry G., assignor.)
Schäfer, Max, assignor to Firm Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Device for simultaneously starting a plurality of internal-combustion engines. No. 1,424,185; Aug. 1.
Schleicher, John A., assignor to The Lufkin Rule Company, Saginaw, Mich. Micrometer gauge. No. 1,424,383; Aug. 1.
Schlosser, Charles F., Brooklyn, N. Y. Commodity container. No. 1,424,682; Aug. 1.
Schmerel, Erich A., Leipsig, Germany. Button for removably fixing the suction disk of a set of teeth. No. 1,424,321; Aug. 1.
Schmidt, Godfrey P. (See Wagner, C., jr., and Schmidt.)
Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Turbine. No. 1,424,263; Aug. 1.
Schneider & Cie. (See Schnieder, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Sighting and aiming apparatus for field guns, combined with devices for correcting transverse and longitudinal inclinations of the gun carriage. No. 1,424,594; Aug. 1.
Schnuck, Carl F. (See Bowen, D. R., and Schnuck.)
Schuyler, Philip L., Scituate, and C. M. Snow, Boston, Mass., assignors to the trustees of the Massachusetts Automobile Club Trust. Automobile elevator. No. 1,424,186; Aug. 1.
Schwarz, Paul E., and T. D. Salmon, Philadelphia, Pa. Casting machine. No. 1,424,595; Aug. 1.
Schweinert, Maximilian C., West Hoboken, N. J. Attachment for water-bottle stoppers or the like. No. 1,424,740; Aug. 1.
Scintilla. (See Steiner, G., and Bohli, assignors.)
Scrivner, Jefferson D., San Benito, Tex. Ant trap. No. 1,424,596; Aug. 1.
Seavey, Elmer S., Johnstown, Pa. Armored wheel tread. No. 1,424,524; Aug. 1.
Seelman, John J., Milwaukee, Wis. Container for fluids for injection purposes. No. 1,424,187; Aug. 1.
Seely, Harry J., Los Angeles, Calif. Reflecting attachment for headlights. No. 1,424,525; Aug. 1.
Seely, Harry J., Los Angeles, Calif. Spark-plug core. No. 1,424,526; Aug. 1.
Seguin, Augustin, Paris, France. Apparatus for measuring speed. No. 1,424,384; Aug. 1.
Seng Company, The. (See Dyke, Darrell F., assignor.)
Sherman, Charles T., sr., Goldvein, Va. Shipping coop. No. 1,424,218; Aug. 1.
Shibiya, Robin I., Omaha, Nebr. Valve lifter. No. 1,424,683; Aug. 1.
Shope Brick Company, The. (See Shope, David F., assignor.)
Shope, David F., Portland, Oreg., assignor to The Shope Brick Company. Brick-carrying vehicle. No. 1,424,741; Aug. 1.
Shorrock, James, Darwen, England. Apparatus suitable for use in the drying of printed wall papers. No. 1,424,742; Aug. 1.
Shrodes, George H., Porterville, Calif. Artificial limb. No. 1,424,264; Aug. 1.
Shute, Ella M. (See Childs, Irene M., assignor.)
Siegel, Louis R., Cleveland, Ohio. Dental crown remover. No. 1,424,527; Aug. 1.
Simeon, Peter P., Sioux City, Iowa. Tricycle. No. 1,424,684; Aug. 1.
Simonds Manufacturing Company. (See Remington, Alfred M., assignor.)
Simmons Company. (See Gail, John F., assignor.)
Singer Manufacturing Company, The. (See Abercrombie, Charles M., assignor.)
Singer Manufacturing Company, The. (See Webb, Irving F., assignor.)
Slag Rock Machine Company. (See Hurst, Willis T., assignor.)
Sloan, Harry E., Hartford, Conn. Chuck. No. 1,424,597; Aug. 1.
Smalley, Charles, Wagner, S. Dak. Truss for automobiles. No. 1,424,685; Aug. 1.
Smith, Alfred, La Madeleine-lez-Lille, France. Stripping apparatus for carding machines and the like. No. 1,424,598; Aug. 1.
Smith, Harry G. (See McLendon, O. P., and Smith.)
Smith, John H., assignor to The Eclipse Interchangeable Counterbore Company, Detroit, Mich. Counterboring tool. No. 1,424,743; Aug. 1.
Smith, Pliny W., Rochester, N. Y. Developing tank. No. 1,424,423; Aug. 1.
Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock drill. No. 1,424,188; Aug. 1.
Snow, Clarence M. (See Schuyler, P. L., and Snow.)
Snyder, Walter S. (See Fegley, T. J., and Snyder.)
Société Industrielle d'Instruments de Précision. (See Conti, James T. F., assignor.)
Société Les Petis Fils de Francois de Wendel et Cie. (See Weber, Guillaume, assignor.)
Sokolove, George A., Philadelphia, Pa. Safety lock for motor vehicles. No. 1,424,599; Aug. 1.
Solop, Sydor, Brooklyn, N. Y. Combined drill and screw set. No. 1,424,600; Aug. 1.

Somers, William A., assignor to The Mt. Carmel Manufacturing Company, Mount Carmel, Conn. Handle lock for automobiles. No. 1,424,686; Aug. 1.
Spencer, Louis M., Highland Park, Mich. Trailer-dumping mechanism. No. 1,424,424; Aug. 1.
Spencer, Louis M., Highland Park, Mich. Cable-hauling and body-dumping mechanism. No. 1,424,425; Aug. 1.
Spencer, Louis M., Highland Park, Mich. Trailer-dumping mechanism. No. 1,424,426; Aug. 1.
Squire, Gayle L., Hastings, Fla. Truck. No. 1,424,528; Aug. 1.
Stanalan, William, Garrison, Tex. Boll-weevil catcher. No. 1,424,265; Aug. 1.
Stean, Louis H., Shafter, Nev. Railway-dispatch-order support. No. 1,424,529; Aug. 1.
Stearns, Jason C., Worcester, Mass. Spotlight support. No. 1,424,687; Aug. 1.
Steen, Christian J. (See Hofberg, John O., assignor.)
Stehl, Charles H., Tinley Park, Ill. Power take-off for automobiles. No. 1,424,688; Aug. 1.
Steiner, Gottlieb, and J. Bohli, assignors to Firm Scintilla, Solothurn, Switzerland. Wire-clamping terminal for low-voltage installations. No. 1,424,219; Aug. 1.
Stern, William F., Deroit, Mich., assignor of one-half to J. R. Little, South Milwaukee, Wis. Steam boiler. No. 1,424,322; Aug. 1.
Stewart, George W., Loughman, Fla. Tire carrier. No. 1,424,601; Aug. 1.
Stokes and Smith Company. (See Morrison, Alfred J., assignor.)
Stolley, William A., assignor to James Heddon's Sons, Inc., Dowagiac, Mich. Artificial bait. No. 1,424,385; Aug. 1.
Stone, Charles W., Tuscaloosa, Ala. Air cooler. No. 1,424,689; Aug. 1.
Stoner, Arthur W., assignor to The Miller Rubber Company, Akron, Ohio. Forming tubes. No. 1,424,386; Aug. 1.
Stranahan, Miles T., Elyria, Ohio. Lifting jack. No. 1,424,748; Aug. 1.
Strobot, John J., assignor to Fidelity Brass Manufacturing Company, Chicago, Ill. Acetylene torch. No. 1,424,189; Aug. 1.
Swartz Electric Company. (See Myers, Clyde J., assignor.)
Swartz Electric Company. (See Whisenand, Omer B., assignor.)
Syers, Paul R., Indianapolis, Ind. Laundry-bag holder. No. 1,424,690; Aug. 1.
Sylvester, Frank A., Macon, Ga. Advertising device. No. 1,424,323; Aug. 1.
Syrett, James F., Baltimore, Md. Dust shield. No. 1,424,324; Aug. 1.
Tasso, Charles, and H. B. Daly, New York, N. Y. Gasket. No. 1,424,691; Aug. 1.
Taylor, Robert, Oldham, England. Combing machine. No. 1,424,692; Aug. 1.
Taylor, William O. (See Howie, K., and Taylor.)
Thom, James C., Chicago, Ill., assignor to Combination Machine Company. Machine-control apparatus. No. 1,424,325; Aug. 1.
Thorp, Franklin and H. T., Whitefield, England. Gas and like meter. No. 1,424,220; Aug. 1.
Thorp, Harvey T. (See Thorp, Franklin and H. T.)
Toledo Scale Company. (See Hapgood, Clarence H., assignor.)
Toledo Scale Company. (See Hem, Halvor O., assignor.)
Trostle, John E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush holder. No. 1,424,326; Aug. 1.
Trout, Walter C., Lufkin, Tex. Expansion sprocket. No. 1,424,327; Aug. 1.
Trumbull, Alexander H., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Knife-blade switch. No. 1,424,266; Aug. 1.
Thumpeter, George, Alliance, Ohio. Ice pick. No. 1,424,221; Aug. 1.
Tubes Limited. (See Reimann, Jacques, assignor.)
Tubiolo, Anthony. (See Lo Verde, J., and Tubiolo.)
Tucker Brothers Manufacturing Company. (See Tucker, Emmitt M. and J. D., assignors.)
Tucker, Emmitt M. and J. D., assignors to Tucker Brothers Manufacturing Company, Sacramento, Calif. Spoke tightener. No. 1,424,530; Aug. 1.
Tucker, Jesse D. (See Tucker, Emmitt M. and J. D.)
Tupper, Frank H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded gear. No. 1,424,267; Aug. 1.
Turbeville, De Kalb, Roanoke, Ala. Kitchen cabinet. No. 1,424,531; Aug. 1.
Turney, Paul W., assignor, by mesne assignments, to Z. E. Turney, surviving joint tenant, Washington, D. C. Producing ice-cream mix. No. 1,424,602; Aug. 1.
Turney, Paul W., assignor, by mesne assignments, to Z. E. Turney, surviving joint tenant, Washington, D. C. Ice-cream mix and making it. No. 1,424,603; Aug. 1.
Turney, Zelma E. (See Turney, Paul W., assignor.)
Tuttle, Earl, Grand Island, Nebr. Folding tent bed for automobiles. No. 1,424,222; Aug. 1.
Tweedie, Charles, Jefferson City, Mo. Combined spat and puttee. No. 1,424,532; Aug. 1.
United Concrete Pipe Co. (See Page, Stephen E., assignor.)
United Shoe Machinery Corporation. (See Fowler, Alfred B., assignor.)
Universal Index Tab Company. (See Brenne, Carl F., assignor.)
Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Co., Chicago, Ill. Locking device for locker doors. No. 1,424,533; Aug. 1.
Van Hove, Desire H., assignor to Reynolds Spring Company, Jackson, Mich. Spring structure. No. 1,424,744; Aug. 1.
Varga, Paul, assignor to The Aromint Manufacturing Company, Cincinnati, Ohio. Wrapping machine. No. 1,424,534; Aug. 1.
Vedoe, Anton M., Quincy, Mass. Reamer. No. 1,424,268; Aug. 1.
Verhulst, George F., et al. (See Cryan, William H., assignor.)
Verrando, Carlo, Turin, Italy. Controlling device for electric circuits. No. 1,424,328; Aug. 1.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,424,427; Aug. 1.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,424,428; Aug. 1.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,424,693; Aug. 1.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,424,694; Aug. 1.
Violet, Marcel A., Levallois-Perret, France. Elastic fork for motor cycles and other vehicles having a single steering wheel. No. 1,424,695; Aug. 1.
Voight, Henry G., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,424,696; Aug. 1.
Voigtman, Max W., St. Louis, Mo. Machine for affixing material to and embellishing book covers. No. 1,424,269; Aug. 1.
Vortex Mfg. Co., The. (See Potts, Peter T., assignor.)
Waddell, William A. (See Culver, A. V., and Waddell.)
Wagner, Christian A., Fort Plain, N. Y. Tire. No. 1,424,223; Aug. 1.
Wagner, Constantin, jr., and G. P. Schmidt, New York, N. Y.; said Schmidt assignor to said Wagner. Measuring apparatus. No. 1,424,429; Aug. 1.
Walden-Worcester, Inc. (See Carlberg, August E., assignor.)
Walsh, Alabama G., Mobile, Ala. Adjustable elastic shoulder underwear supporter. No. 1,424,329; Aug. 1.
Warp Twisting-In Machine Company. (See Becker, John H., assignor.)
Warren, Ralph H., Montclair, N. J. Apparatus for reducing materials. No. 1,424,697; Aug. 1.
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Watkins, Orla H. (See Rhenstrom, A., and Watkins.)
Watts, Harry J., Turtle Creek, Pa. Floating tool chuck. No. 1,424,535; Aug. 1.
Webb, Irving F., Elisabeth, N. J., assignor to The Singer Manufacturing Company. Adjustable carrier for sewing machines. No. 1,424,698; Aug. 1.
Weber, Guillaume, Hayange, assignor to Société Les Petits Fils de Francois de Wendel et Cie., Paris, France. Receptacle for liquid air. No. 1,424,604; Aug. 1.
Welhe, Alfred H., Baekkelaget, near Christiania, Norway. Combined washing, rinsing, and wringing machine. No. 1,424,605; Aug. 1.
Welth, Archie J. (See Redman, L. V., Welth, and Brock.)
Wenger, Edgar I., Glenellyn, Ill. High-speed tool. No. 1,424,536; Aug. 1.
Wernig, Frederick A., Brooklyn, N. Y., assignor to New York Wire & Spring Company. Automobile bumper. No. 1,424,699; Aug. 1.
West, John H., Bayswater, and A. Jaques, Waterloo, England. Method and apparatus for increasing the yield of hydrogen in coal gas. No. 1,425,749; Aug. 1.
Western Electric Company. (See Johnson, Kenneth S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Flanders, Warren B., assignor.)
Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Moore, Benjamin S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Peters, John F., assignor.)
Westinghouse Electric & Manufacturing Co. (See Schmidt, Henry F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Trostle, John E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tupper, Frank H., assignor.)
Westmont, John C., assignor to Wisconsin Farm Tractor Company, Sauk City, Wis. Tractor. No. 1,424,224; Aug. 1.
Weth, John A., Streator, Ill. Clothesline fastener. No. 1,424,537; Aug. 1.

Whisenand, Omer B., assignor to Swartz Electric Company, Indianapolis, Ind. Adjusting device for throttle governors. No. 1,424,270; Aug. 1.
White, William G., Hoquiam, Wash. Log bunk. No. 1,424,330; Aug. 1.
Whitten, George E., et al. (See Wyckoff, Clyde E., assignor.)
Widmer, Charles A., Paterson, N. J. Drill press. No. 1,424,538; Aug. 1.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Bifurcating blanks. No. 1,424,539; Aug. 1.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Bifurcating blanks. No. 1,424,540; Aug. 1.
Wildman Mfg. Co. (See Howie, K., and Taylor, assignors.)
Wilkinson, John, assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Vaporiser or carburetor for internal-combustion engines and vaporizing the motive fluid for such engines. No. 1,424,541; Aug. 1.
Williams, Calvin C., Philadelphia, Pa. Power-transmission mechanism. No. 1,424,542; Aug. 1.
Williams, James H., Baltimore, Md. Piano. No. 1,424,606; Aug. 1.
Williams, Leslie S., and B. Kerr, Wichita Falls, Tex. Spark plug. No. 1,424,700; Aug. 1.
Williams, Milton F., assignor to Williams Patent Crusher & Pulveriser Company, St. Louis, Mo. Coved pivoted hammer. No. 1,424,225; Aug. 1.
Williams, Noel E., Canyon, Tex. Piston. No. 1,424,701; Aug. 1.
Williams Patent Crusher & Pulveriser Company. (See Williams, Milton F., assignor.)
Wills, Walter B., Baltimore, Md. Collapsible bag holder. No. 1,424,387; Aug. 1.
Wilsch, Stefan, Schenectady, N. Y. Padlock. No. 1,424,543; Aug. 1.
Wilson Process, Incorporated. (See Wilson, Sidney C., assignor.)
Wilson, Sidney C., Penn Yan, assignor to Wilson Process, Incorporated, Rochester, N. Y. Shoe manufacture. No. 1,424,745; Aug. 1.
Winderman, Allan A. L., and R. Rachmil, New York, N. Y. Overalls. No. 1,424,388; Aug. 1.
Window Glass Machine Company. (See Clark, Henry F., assignor.)
Wisconsin Farm Tractor Company. (See Westmont, John C., assignor.)
Wisenberg, Don C., Peru, Ind. Article holder. No. 1,424,607; Aug. 1.
Wishart, Thomas D., Heaton Chapel, near Stockport, assignor of one-half to Crossley Motors Limited, Gorton, Manchester, England. Internal-combustion engine. No. 1,424,226; Aug. 1.
Wissel, Anthony J., trustee. (See Penrod, William F., assignor.)
Wissinger, Max, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electrical control apparatus. No. 1,424,702; Aug. 1.
Wood, Edward W., Brooklyn, N. Y. Heel binder. No. 1,424,609; Aug. 1.
Wood, Walter D., Cranston, R. I. Pearl-coat-distributing machine. No. 1,424,544; Aug. 1.
Woolcott, Alfred W., assignor of one-half to Rea-Patterson Milling Company, Coffeyville, Kans. Flour-milling process. No. 1,424,608; Aug. 1.
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,424,430; Aug. 1.
Work, Joseph V., Palisade, Nebr. Screw-driver attachment. No. 1,424,703; Aug. 1.
Wright, George, San Francisco, Calif. Boat-launching apparatus. No. 1,424,227; Aug. 1.
Wyatt, John W., Los Angeles, Calif. One-lick bread cutter and cake cutter. No. 1,424,389; Aug. 1.
Wyckoff, Clyde E., assignor of one-half to J. O. Moffat and one-half to G. E. Whitten, Kansas City, Mo. Level. No. 1,424,229; Aug. 1.
Wyckoff, Richard D., New York, N. Y. Projector combined with printing mechanism of tickers or other instruments. No. 1,424,228; Aug. 1.
Yaeger, Carl, assignor to A. Laitner & Sons, Detroit, Mich. Brush-making machine. No. 1,424,545; Aug. 1.
Yarmolaitis, William C., Cleveland, Ohio. Lifting jack. No. 1,424,390; Aug. 1.
Yeager, Mary G., St. Louis, Mo. Electric curler. No. 1,424,546; Aug. 1.
Yeagher, William A., jr., assignor of one-third to F. Mulvey and one-third to T. H. Howley, New Brunswick, N. J. Grease gun. No. 1,424,547; Aug. 1.
Youngken, Ben N., Los Angeles, Calif. Casing elevator. No. 1,424,548; Aug. 1.
Zeiss, Firm of Carl. (See Becker, Paul, assignor.)
Zielonko, Joseph K., Newark, N. J. Folding table. No. 1,424,610; Aug. 1.
Zinn, Hattie, Columbus, Ohio. Marcel-wave device. No. 1,424,230; Aug. 1.
Zirwes, Nickalous C., Sheboygan, Wis. Folding chair. No. 1,424,704; Aug. 1.
Zuruk-Zurinsky, John J., McKeesport, Pa. Clothes-pressing apparatus. No. 1,424,549; Aug. 1.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Arter, Thomas W., Bellaire, Ohio. Typewriter mat. No. 61,287; Aug. 1.
Baer, William H. (See Kelsey, H. W., and Baer.)
Beaver Machine and Tool Co., Inc. (See Ponon, Paul S., assignor.)
Bidwell, Burton O., Chicago, assignor to F. W. Hopkins, Wilmette, Ill. Toy dog. Nos. 61,288–9; Aug. 1.
Bollinger, Frederick A., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire tread. No. 61,290; Aug. 1.
Burns, Anthony J., assignor to Burns-Pollock Electric Manufacturing Company, Indiana Harbor, Ind. Combined lamp and phonograph. No. 61,291; Aug. 1.
Burns-Pollock Electric Manufacturing Company. (See Burns, Anthony J., assignor.)
Entenmann, Carl, Jewelry Company. (See Walter, Fred, jr.)
Firestone Tire and Rubber Company, The. (See Bollinger, Frederick A., assignor.)
Forbes, Armitage S. C. and H. R. P., Los Angeles, Calif. Bookholder. No. 61,292; Aug. 1.
Forbes, Harrye R. P. (See Forbes, Armitage S. C. and H. R. P.)
Francis, William H., Southington, Conn. Ice cream, pop corn, candy, or cake. No. 61,293; Aug. 1.
Frishmuth, Harriet W., New York, N. Y. Statuette. No. 61,294; Aug. 1.
George, Maude S., St. Louis, Mo. Garment protector. No. 61,295; Aug. 1.
Gillette, Genevieve. (See Reber, Harvey, assignor.)
Goodwin, John E., Stoke-upon-Trent, England, assignor to Josiah Wedgwood & Sons, Incorporated of America, New York, N. Y. Plate or similar article. Nos. 61,296–301; Aug. 1.
Hopkins, Frank W. (See Bidwell, Burton O., assignor.)
Hopkins, Frank W. (See Lund, Arthur, assignor.)
Hopkins, Frank W. (See Powers, William H., assignor.)
Hopkins, Frank W., Wilmette, Ill. Toy dog. Nos. 61,302–5; Aug. 1.
Johnson, Frederick H., East Greenwich, R. I. Button, badge, emblem, pin, or article of similar nature. No. 61,306; Aug. 1.
Kahn, Geneva, Kirksville, Mo. Combined pin and hairpin holder. No. 61,307; Aug. 1.
Kelsey, Harry W., and W. H. Baer, assignors to The Russell Manufacturing Company, Middletown, Conn. Box cover. Nos. 61,308–10; Aug. 1.
Kelsey, Harry W., and W. H. Baer, assignors to The Russell Manufacturing Company, Middletown, Conn. Carton. No. 61,311; Aug. 1.
Lund, Arthur, Chicago, assignor to F. W. Hopkins, Wilmette, Ill. Toy dog. Nos. 61,312–15; Aug. 1.
Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 61,319; Aug. 1.
Mifflin, Merwin T., Duquoin, Ill. Doll, statuette, or similar article. No. 61,316; Aug. 1.
Ohm, Albert J. D., Astoria, N. Y., assignor to M. Schaffer Co. Lamp fixture. No. 61,317; Aug. 1.
Ohm, Albert J. D., Astoria, N. Y., assignor to M. Schaffer Co. Arm for lamp fixtures. No. 61,318; Aug. 1.
Phoenix Light Company. (See Pike, Edwin B., assignor.)
Pike, Edwin B., assignor to Phoenix Light Company, Milwaukee, Wis. Lamp standard. Nos. 61,320–3; Aug. 1.
Ponon, Paul S., assignor to Beaver Machine and Tool Co., Inc., Newark, N. J. Portable motion-picture-screen support. Nos. 61,324–5; Aug. 1.
Powers, William H., Chicago, assignor to F. W. Hopkins, Wilmette, Ill. Toy dog. Nos. 61,326–7; Aug. 1.
Protectu Corporation. (See Shoemaker, John F., assignor.)
Reber, Harvey, Highwood, assignor of one-half to G. Gillette, Highland Park, Ill. Combined book end and candlestick. No. 61,328; Aug. 1.
Riehl, Frederick W., Yonkers, N. Y. Ring. No. 61,329; Aug. 1.
Ripich, Louis J., Cleveland, Ohio. Combination lamp stand. No. 61,330; Aug. 1.
Russell Manufacturing Company, The. (See Kelsey, H. W., and Baer, assignors.)
Ryan, Thomas L., Muncie, Ind. Portable lamp base. No. 61,331; Aug. 1.
Schaffer, Max Co. (See Ohm, Albert J. D., assignor.)
Shoemaker, John F., assignor to Protectu Corporation, Chicago, Ill. Safety paper for checks, drafts, or negotiable instruments. No. 61,332; Aug. 1.
Smith, Isidore P., Chicago, Ill. Automobile tire. No. 61,333; Aug. 1.
Walter, Fred, jr., assignor to Carl Entenmann Jewelry Company, Los Angeles, Calif. Badge, button, emblem, or article of similar nature. No. 61,334; Aug. 1.
Wedgwood, Josiah, & Sons, Incorporated of America. (See Goodwin, John E., assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Affinity Company, Grand Rapids, Mich. Certain toilet preparations. No. 157,298; Aug. 1.
Aktiengesellschaft für Chemische Produkte vormals H. Scheidemandel, Berlin, Germany. Cosmetics for promoting the growth of human hair. No. 157,299; Aug. 1.
Aktiengesellschaft für Chemische Produkte vormals H. Scheidemandel, Berlin, Germany. Pharmaceutical preparation for promoting the growth of human hair, wool, and feathers. No. 157,300; Aug. 1.
American Chemical Paint Company, Philadelphia, Pa. Fluid soldering flux. No. 157,301; Aug. 1.
Asquith, William G., doing business as The Astron Manufacturing Co., London, England. Certain veterinary preparation. No. 157,303; Aug. 1.
Astron Manufacturing Co., The. (See Asquith, William G.)
Atlantic Mills, Inc., Providence, R. I. Worsted piece goods. No. 157,304; Aug. 1.
Baer & Wilde Co. Inc., The, Attleboro, Mass. Belt buckles made of or plated with precious metal. No. 157,407; Aug. 1.
Balfour Guthrie & Co., San Francisco, Calif. Insecticide spray. No. 157,305; Aug. 1.
Baltic Chemical Co. (See Rottenberg, Benjamin.)
Bay State Drug Co., Fitchburg, Mass. Internal medicine for coughs, colds, bronchitis, etc. No. 157,306; Aug. 1.
Beckwith, William A., Worcester, Mass. Steel-hardening solutions. No. 157,308; Aug. 1.
Beech-Nut Packing Company, Canajoharie, N. Y. Baking powder. No. 157,307; Aug. 1.
Bennis, Stephen, Mineola, Long Island, N. Y. Talking-machine needles. No. 157,408; Aug. 1.
Beresford, Lionel B., doing business as Elcaptain Toy and Game Co., Beverly, N. J. Board games. No. 157,309; Aug. 1.
Bermingham & Prosser Company, Kalamazoo, Mich. Book paper. No. 157,409; Aug. 1.
BiSoDol Co., Inc., New York, N. Y. Medicinal preparation used as an antiacid digestant. No. 157,310; Aug. 1.
Brady, James A., Foundry Company, Chicago, Ill. Stokers. No. 157,410; Aug. 1.
Brauer, Julius H., Buffalo, N. Y. Bluing. No. 157,311; Aug. 1.
Burnham, E., Inc., Chicago, Ill. Face powder. No. 157,312; Aug. 1.
Carlin, Andrew F., Brighton, Mass. Healing salve. No. 157,313; Aug. 1.
Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Preparations consisting in calcium hypochlorite or containing calcium hypochlorite. No. 157,314; Aug. 1.
Cheramy, Incorporated, New York, N. Y. Bath salts. No. 157,315; Aug. 1.
Cheramy, Incorporated, New York, N. Y. Perfume, toilet water, face lotion and powder, etc. No. 157,316; Aug. 1.
Cholsanin A. G., Berne, Switzerland. Preparations for the treatment of diseases of the liver. No. 157,317; Aug. 1.
Cimicata, Louis E., St. Louis, Mo. Cough drops. No. 157,318; Aug. 1.
Connecticut Telephone & Electric Company Incorporated, Meriden, Conn. Electrical apparatus. No. 157,411; Aug. 1.
Conner and Walters Company, Inc., Charlotte, N. C. Medicated toilet preparation for treatment of the hair and scalp. No. 157,319; Aug. 1.
Consolidated Bottling Works, The. (See Weinfeld, Louis.)
Crocker, F. B., Fostoria, Ohio. Antiseptic for teeth, sores, throat wash, and douches. No. 157,320; Aug. 1.
Crofts & Reed Co., Chicago, Ill. Toilet and laundry soaps. No. 157,412; Aug. 1.
Cunningham, Edward H., San Antonio, Tex. General tonic. No. 157,321; Aug. 1.
D. & C. Specialty Co. (See Davey, Wesley C.)
Davey, Wesley C., doing business as D. & C. Specialty Co., Hasleton, Pa. Powder insecticide. No. 157,322; Aug. 1.
De Lange, James, Clinton, Iowa. Tonic or nerve restorer and system builder. No. 157,323; Aug. 1.
De Pree Chemical Company, The, Holland, Mich. Certain toilet preparations. No. 157,324; Aug. 1.
Dunleavy, George W., Cambridge, Mass. Hair tonics. No. 157,325; Aug. 1.
Dunn, John, Son & Co., New York, N. Y. Clothes-washing machines, wringers, and mangles. No. 157,326; Aug. 1.
Eichelberger's Sons, Dayton, Ohio. Certain named construction material. No. 157,413; Aug. 1.
Elcaptain Toy and Game Co. (See Beresford, Lionel B.)
Empire Food Products Company, New York, N. Y. Baking powder. No. 157,327; Aug. 1.
Eyben, René, doing business as Hujarvis, New York, N. Y. Perfumes. No. 157,328; Aug. 1.
Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Medicinal preparation. Nos. 157,329–31; Aug. 1.
Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Certain medicinal preparation. Nos. 157,332–3; Aug. 1.
Ford Roofing Products Co., Chicago, Ill. Asphalt shingles. No. 157,414; Aug. 1.
Fulton Motors Corporation, New York, N. Y. Automobiles. Nos. 157,337–8; Aug. 1.
Garrett & Company, Inc., New York, N. Y. Nonalcoholic, noncereal, maltless beverage sold as a soft drink. No. 157,415; Aug. 1.
Gilbert Bros. & Co. Inc., Baltimore, Md. Preparation for the treatment of coughs, colds, grip, etc. No. 157,334; Aug. 1.
Ginseng Bottling Co., The, Menominee Falls, Wis. Beverages sold as a soft drink and sirups for making same. No. 157,416; Aug. 1.
Glassman, Albert A., New York, N. Y. Certain medicinal preparation. No. 157,335; Aug. 1.
Glidden Company, The, Cleveland, Ohio. Disinfectants. No. 157,336; Aug. 1.
Haines, Dr. A. C., Columbus, Ohio. Medicinal preparations used in the treatment of hemorrhoids. No. 157,339; Aug. 1.
Hambo, Clifford G., Portland, Oreg. Medicinal preparation. No. 157,340; Aug. 1.
Hart-Shaw-Miller Drug Company, Adrian, Mich. Blood purifier and cleanser and system builder. No. 157,341; Aug. 1.
Herrgott, Leon, Paris, France. Perfumery. No. 157,342; Aug. 1.
Herrgott, Leon, Paris, France. Perfumery. No. 157,350; Aug. 1.
High Test Malt Extract Co., Chicago, Ill. Malt extract for food purposes. No. 157,417; Aug. 1.
Home Supply, The. (See Spencer, Le Roy.)
Houbigant, Inc., New York, N. Y. Perfume extract and toilet water. No. 157,343; Aug. 1.
Hubbell, Harvey, Incorporated, Bridgeport, Conn. Electric plugs, caps, and receptacles. No. 157,418; Aug. 1.
Hujarvis. (See Eyben, René.)
Hurd, George B., & Co., New York, N. Y. Writing paper and correspondence envelopes. Nos. 157,419–21; Aug. 1.
Imperial Perfume Co., New York, N. Y. Toilet preparations. No. 157,344; Aug. 1.
Inter-Collegiate Press, Kansas City, Mo. Writing paper. No. 157,345; Aug. 1.
Iron Oxide Products, Inc., Cicero, Ill. Iron oxide. No. 157,346; Aug. 1.
J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow, Berlin-Pankow, Germany. Cigars, cigarettes, etc. Nos. 157,378–80; Aug. 1.
Jefferson Coal Company, The, Cleveland, Ohio. Coal. No. 157,422; Aug. 1.
Joon Perfumery Co. (See Powers, Emmett.)
Kade's, Dr., Medizinisch-Pharmazeutisches Fabrikations- & Exportgeschaft Dr. Frans Lutze, Berlin, Germany. Pharmaceutical products especially for asthma. No. 157,347; Aug. 1.
Kalamazoo Paper Company, Kalamazoo, Mich. Writing paper. No. 157,423; Aug. 1.
Kamp & Dutton, St. Louis, Mo. Medical preparation or ointment. No. 157,424; Aug. 1.
Kappus, John M., trading as United Service Distributors, Cleveland, Ohio. Laxative tablets. No. 157,348; Aug. 1.
Katoff, Irving H., New York, N. Y. Preparation for treatment of foot ailments. No. 157,349; Aug. 1.
Klatscher & Lorenz, Inc., New York, N. Y. Body sugar for beer coloring and flavoring. No. 157,351; Aug. 1.
Knee 4 Medicine Company, Savannah, Ga. Medicinal preparations. No. 157,352; Aug. 1.
Laird Manufacturing Co, Inc., The, Richmond, Va. Baking powder. No. 157,353; Aug. 1.
Leavengood, Clyde, Rosedale, Kans. Preparation for the treatment of asthma. No. 157,354; Aug. 1.
Lierach, Mrs. Mary, Kansas City, Mo. Medicinal preparations. No. 157,355; Aug. 1.
Lloyd Drug Company, Detroit, Mich. Medicine used as a treatment for lung and bronchial afflictions. No. 157,356; Aug. 1.
McCollum, Pearl G., Texarkana, Ark. Hair tonic and shampoo. No. 157,357; Aug. 1.
McLaughlin, J. J., Limited, Toronto, Canada. Nonalcoholic, maltless beverages sold as soft drinks, sirups and extracts therefor. No. 157,425; Aug. 1.
McMichael, Americus O., Denver, Colo. Certain medicinal preparations. No. 157,302; Aug. 1.
Mar-Vello Remedies Co., Tiffin, Ohio. Antifat medicines. No. 157,359; Aug. 1.
Marshall Field & Company, Chicago, Ill. Toilet paper. No. 157,358; Aug. 1.
Merchant & Evans Company, Philadelphia, Pa. Flexible disks for universal couplings. No. 157,426; Aug. 1.

Metadier, Paul, Tours, France. Medicinal preparation. No. 157,360; Aug. 1.

Meyers, J., Stationery & Printing Co., Inc., New York, N. Y. Legal and letter paper, writing pads, notebooks, etc. No. 157,361; Aug. 1.

Middlesex Aniline Company, Inc., Lincoln, N. J. Silver, zinc, and copper cyanides. No. 157,362; Aug. 1.

Middleton, Ambrose, Mansfield, Ohio. Croup ointment. No. 157,363; Aug. 1.

Mifflin Chemical Corporation, Philadelphia, Pa. Preparation used to prevent the freezing of radiators. No. 157,364; Aug. 1.

Mijets Perfume Company, Inc., New York, N. Y. Perfumes. No. 157,365; Aug. 1.

Morgan, Chester M., Findlay, Ohio. Embalming fluid. No. 157,366; Aug. 1.

Mouquin Restaurant and Wine Company Limited, New York, N. Y. Maltless fruit-juice beverage sold as soft drink and sirups for making same. No. 157,427; Aug. 1.

Nutt, Paul O., Des Moines, Iowa. Gargle for sore throat. No. 157,367; Aug. 1.

Pan American Pharm. Co. Inc., New York, N. Y. Hair remover in powdered form. No. 157,368; Aug. 1.

Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 157,428; Aug. 1.

Parke, Davis & Company, Detroit, Mich. Germicides and antiseptics. No. 157,369; Aug. 1.

Peninsula Products Company, Wilmington, Del. Ginger ale. No. 157,370; Aug. 1.

Pepsodent Company, The, Chicago, Ill. Dentifrices. No. 157,371; Aug. 1.

Perfection Laboratories, Chicago, Ill. Toilet preparations. No. 157,372; Aug. 1.

Philippe, Louis, Inc., New York, N. Y. Face creams. No. 157,429; Aug. 1.

Plumb, Fayette R., Incorporated, Philadelphia, Pa. Handled hammers, hatchets, axes, adzes, and sledges. No. 157,373; Aug. 1.

Polonia Medicine Company, Philadelphia, Pa. Herb teas, a preparation for constipation, headache, etc. No. 157,430; Aug. 1.

Pond's Extract Company, New York, N. Y. Cold cream. No. 157,431; Aug. 1.

Powell, Walter S., Georgetown, Ky. Intestinal cathartic for constipation. No. 157,374; Aug. 1.

Powers, Emmett, trading as Joon Perfumery Co., Denver, Colo. Toilet preparations. No. 157,375; Aug. 1.

Price & Teeple Piano Company, Chicago, Ill. Pianos and player pianos. No. 157,432; Aug. 1.

Produits Chimiques & Pharmaceutiques Meurice Societe Anonyme, Brussels, Belgium. Medicated bougies for human use. No. 157,376; Aug. 1.

Rauskolb, F. W., Company, Medford, Mass. Gold, silver, aluminum, composition, ribbon, white, and color leaf. No. 157,433; Aug. 1.

Redlich Manufacturing Company, Chicago, Ill. Puzzles. No. 157,434; Aug. 1.

Rendell, Moses B., New York, N. Y. Chemical composition for smelting purposes. No. 157,377; Aug. 1.

Rottenberg, Benjamin, trading as Baltic Chemical Co., New York, N. Y. Chemicals, medicines, and pharmaceutical preparations. No. 157,381; Aug. 1.

Rubber Process Corporation, Detroit, Mich. Rubber preservative. No. 157,382; Aug. 1.

Rundle, George H., Company, The, Piqua, Ohio. Certain medicinal preparation. No. 157,383; Aug. 1.

Ryan, Matthew W., New York, N. Y. Cotton piece goods. No. 157,435; Aug. 1.

Sears, Roebuck and Co., Chicago, Ill. Tooth paste. No. 157,384; Aug. 1.

Shaffer, John B., Lima, Ohio. Preparation for the relief of bronchial asthma, hay fever, colds, etc. No. 157,385; Aug. 1.

Shenk, John B., Philadelphia, Pa. Certain medicinal and toilet preparations. No. 157,386; Aug. 1.

Sherwin-Williams Company, Cleveland, Ohio. Certain chemicals. No. 157,387; Aug. 1.

Sinclair Mfg. Company, The, Toledo, Ohio. Chemical cleaner for ceramic materials. No. 157,388; Aug. 1.

Spencer, Le Roy, also operating as The Home Supply, Chicago, Ill. Malt extract, gelatine, and hops for making nonintoxicating malt beverages. No. 157,436; Aug. 1.

Srofe, Jesse, trading as J. Srofe Company, Cincinnati, Ohio. Toy blocks. No. 157,389; Aug. 1.

Stanke, William C., Hoboken, N. J. Wooden toy gunboat on wheels. No. 157,390; Aug. 1.

Storick, Harold C., Berrien Springs, Mich. Certain medicinal preparations. No. 157,391; Aug. 1.

Suchywerke, A. G., Vienna, Austria. Pharmaceutical preparation for rheumatism and fever. No. 157,437; Aug. 1.

Sulpreme Chemical Co., The, Northcarrollton, Miss. Certain medicinal preparations. No. 157,392; Aug. 1.

Tanners Cut Sole Company, Boston, Mass. Leather and leather bends, sides, blocks, and strips. No. 157,393; Aug. 1.

Thermoid Rubber Company, Hamilton Township, Mercer County, N. J. Brake linings. No. 157,394; Aug. 1.

Thompson, Alice, San Francisco, Calif. Face bleach, building astringent, powder used as a foot ease, etc. No. 157,395; Aug. 1.

Thompson, F. A., & Company, Detroit, Mich. Medicine for kidney, liver, bladder, rheumatism, and uric-acid troubles. No. 157,396; Aug. 1.

United Retail Chemists Corporation, New York, N. Y. Certain medicinal preparations. No. 157,397; Aug. 1.

United Service Distributors. (See Kappus, John M.)

United States Gypsum Company, Chicago, Ill. Pottery and casting plaster. No. 157,438; Aug. 1.

United States Playing Card Company, East Norwood, Cincinnati, Ohio. Playing cards. No. 157,439; Aug. 1.

Vajada, Joseph, New York, N. Y. Preparation for the treatment of the scalp and growth of hair. No. 157,398; Aug. 1.

Val Blatz Brewing Company, Milwaukee, Wis. Nonalcoholic near beer, beer, malt tonic, sirup, and extract, etc. No. 157,399; Aug. 1.

Vauxhall Motors, Limited, Luton, England. Automobiles and motor cycles. No. 157,400; Aug. 1.

Walker, Madame C. J., Inc., Chicago, Ill. Toilet preparations. No. 157,401; Aug. 1.

Ward, George S., New York, N. Y. Articles plated with precious metal. No. 157,440; Aug. 1.

Weinfeld, Louis, doing business as The Consolidated Bottling Works, Norfolk, Va. Nonalcoholic maltless beverages sold as soft drinks. No. 157,442; Aug. 1.

Weld It Acetylene Company, Detroit, Mich. Welding and cutting apparatus. No. 157,441; Aug. 1.

White-Dove Laboratories, New York, N. Y. Olive-oil shampoo. No. 157,402; Aug. 1.

Willson, Edith E., Washington, D. C. Miniature table, bed, and toilet articles for children's dolls. No. 157,403; Aug. 1.

Wood, John, Columbus, Ohio. Preparation for indigestion and stomach trouble. No. 157,404; Aug. 1.

Wooster Brush Company, The, Wooster, Ohio. Brushes. No. 157,405; Aug. 1.

Worcester Salt Co., New York and Silver Springs, N. Y., and Ecorse, Mich., Salt. No. 157,406; Aug. 1.

Zimmerman, William, Cedar Rapids, Iowa. Shampoo for hair and scalp. No. 157,443; Aug. 1.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Aberdeen Creamery Company, Aberdeen, Miss. "Daffodil." (For Butter.) No. 24,770; Aug. 1.

Allen-Bradley Company, Milwaukee, Wis. "Bradleystat." (For Radio Appliances.) No. 24,771; Aug. 1.

Automotive Products Corporation, Hazleton, Pa. "Super Quality." (For Piston Pins.) No. 24,772; Aug. 1.

Baum, Max, New York, N. Y. "Stage Hosiery." (For Hosiery.) No. 24,773; Aug. 1.

Beautypeel Cosmetic Co. (See Newlyn, Thomas J.)

Benton, Lawrence L., Pasadena, Calif. "Benton's Com-Aid." (For Composition of Matter for Use on the Hair.) No. 24,774; Aug. 1.

Capaha Cigar Co., Cape Girardeau, Mo. "Cap-A-Ha." (For Cigars.) No. 24,775; Aug. 1.

Carlton County Creamery Co. (See Menasha Printing and Carton Company, assignor.)

City Dairy and Ice Cream Co., St. Joseph, Mo. "'U-Tell-'Em' It's Tas Tells." (For Ice Cream.) No. 24,776; Aug. 1.

Copps Co., The, Stevens Point, Wis. "Deerwood." (For Sweet Corn.) No. 24,777; Aug. 1.

Crown Brewing Company, The, Cincinnati, Ohio. "Crown." (For Root Beer.) No. 24,778; Aug. 1.

Davis Company, The. (See Menasha Printing and Carton Company, assignor.)

Dexter Baking Company, The, Waterbury, Conn. "Dexter's Milk Bread." (For Bread.) No. 24,779; Aug. 1.

Dexter Baking Company, The, Waterbury, Conn. "Dexter's Table Queen Bread." (For Bread.) No. 24,780; Aug. 1.

Drug Products Co. Inc., The, Long Island City, N. Y. "Lozenges No. 12 Iothesin." (For Packages Containing a Medicinal Preparation.) No. 24,781; Aug. 1.

Drug Products Co. Inc., The, Long Island City, N. Y. "Pulvoids No. 386 Iosote." (For Packages Containing a Medicinal Preparation.) No. 24,782; Aug. 1.

Euclid Candy Co., The, Cleveland, Ohio. "Love Nest." (For Candy.) No. 24,783; Aug. 1.

Falcon Products Incorporated, New York, N. Y. "Falconette." (For Packages and Boxes Containing Hair Nets.) No. 24,784; Aug. 1.

Hamilton, John W., Troy, N. Y. "Sun Shine Mist." (For a Composition for Cleaning and Polishing Furniture, Floors, Linoleum, and Other Surfaces.) No. 24,785; Aug. 1.

Hatcher, Charles C., doing business as Hatcher Mfg. Co., Chicago, Ill. "'Maid-Well.'" (For Superior White Paste.) No. 24,786; Aug. 1.

Hatcher Mfg. Co. (See Hatcher, Charles C.)

Hills Bros., San Francisco, Calif. "Hills Bros. Coffee." (For Coffee.) No. 24,787; Aug. 1.

Hovden, K., Co., Monterey, Calif. "Portola." (For Sardines.) Nos. 24,788–90; Aug. 1.

Jue, David F., & Co., San Francisco, Calif. "Red Triangle." (For Noodles.) No. 24,791; Aug. 1.

Kotzin, Theodore, Los Angeles, Calif. "Hardware." (For Clothing.) No. 24,792; Aug. 1.

Krank, Alfred J., doing business as A. J. Krank Manufacturing Company, St. Paul, Minn. "Soak-In." (For Containers Containing Liniment.) Nos. 24,793–4; Aug. 1.

Levy, A., & J. Zentner Company, San Francisco, Calif. "Lucky Seller 'I Love You California'." (For Rhubarb.) No. 24,795; Aug. 1.

Lockett, Benjamin, Brooklyn, N. Y. "New Ideal." (For Cigars.) No. 24,796; Aug. 1.

Louisville Coffee Company, The, Louisville, Ky. "Bed Rock." (For Coffee.) No. 24,797; Aug. 1.

Mammoth Hosiery Mills, Philadelphia, Pa. "Numaid." (For Hosiery.) No. 24,798; Aug. 1.

Meier & Frank Co., Portland, Oreg. "Sweetness in every Box." (For Candy.) No. 24,799; Aug. 1.

Menasha Printing and Carton Company, Menasha, Wis., assignor to The Davis Company, Newark, Ohio. "Davis." (For Cartons Containing Butter.) No. 24,800; Aug. 1.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Carlton County Creamery Co., Barnum, Minn. "Barnum's Sweet Made." (For Cartons Containing Butter.) No. 24,801; Aug. 1.

Miles Manufacturing Co. Inc., The, Los Angeles, Calif. "Jell-Well." (For a Raspberry Mixture.) No. 24,802; Aug. 1.

National Carbon Company Inc., New York, N. Y. "Eveready Unit Cell." (For Electric Batteries.) No. 24,803; Aug. 1.

Newlyn, Thomas J., doing business as Beautypeel Cosmetic Co., El Paso, Tex. "Unmask Your Beauty." (For Cosmetic Lotions for Beautifying the Skin and Eradicating Blemishes Thereof.) No. 24,804; Aug. 1.

North American Honey Distributors. (See Southworth, W. P.)

Northern Fruit Company, Tonasket, Wash. "Red Head." (For Apples.) No. 24,805; Aug. 1.

Owen, Frank Lee, San Francisco, Calif. "Honey Bunch." (For Grapefruit.) No. 24,806; Aug. 1.

Peerless Paper Co., The, Dayton, Ohio. "Enameline." (For Paper.) No. 24,807; Aug. 1.

Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. "Superior." (For Macaroni.) No. 24,808; Aug. 1.

Rassias, George L., Brooklyn, N. Y. "Goody-Mints Candy." (For Candy.) No. 24,809; Aug. 1.

Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Hose." (For Containers for Hose.) No. 24,810; Aug. 1.

Richards, George & Company, Chicago, Ill. "Hemco Twin-Lite." (For Plugs or Receptacles for Electric Lamps.) No. 24,811; Aug. 1.

Sherman, Henry L., Boston, Mass. "Po-Ree-Ko." (For Receptacles Containing Comestibles, Including Prepared Grapefruit.) No. 24,812; Aug. 1.

Southworth, W. P., doing business as North American Honey Distributors, Sioux City, Iowa. "Principally From Sage Blossoms." (For Honey.) No. 24,813; Aug. 1.

Spokane Valley Growers Union, Opportunity, Wash. "SV." (For Apples.) No. 24,814; Aug. 1.

Taylor, J. L., Co., The, Los Angeles, Calif. "Old Taylor." (For Cantaloupes.) No. 24,815; Aug. 1.

Townsend Co., The, Shelbyville, Del. "Del-Riches Brand Green-Cut Stringless Beans." (For Cans Containing Stringless Beans.) No. 24,816; Aug. 1.

Vitamin Food Co. Inc., New York, N. Y. "Vitaminized Fruit Wafers." (For Vitamine Food Preparation.) No. 24,817; Aug. 1.

Vitamin Food Co. Inc., New York, N. Y. "Vegex Almonds." (For a Vitamine Food Preparation.) No. 24,818; Aug. 1.

Williams, Brown & Earle Inc., Philadelphia, Pa. "Photoplan Paper." (For Label for Said Paper.) No. 24,819; Aug. 1.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Cecil, James M., Richmond, Va. "The Write Gift." (For Advertising Purposes for Writing Paper.) No. 6,236; Aug. 1.

City Dairy and Ice Cream Co., St. Joseph, Mo. "U-Tell-'Em' It's Tas Tells." (For Advertising Purposes for Ice Cream.) No. 6,237; Aug. 1.

Hills Bros., San Francisco, Calif. "Quality counts." (For Advertising Purposes for Coffee.) No. 6,238; Aug. 1.

Hills Bros., San Francisco, Calif. "Coffee Talks." (For Advertising Purposes for Coffee.) No. 6,239; Aug. 1.

Hills Bros., San Francisco, Calif. "A reflection of good coffee." (For Advertising Purposes for Coffee.) No. 6,240; Aug. 1.

Hills Bros., San Francisco, Calif. "First—last— and always." (For Advertising Purposes for Coffee.) No. 6,241; Aug. 1.

Milwaukee Paper Box Company, Milwaukee, Wis. "Yum Yum." (For Advertising Purposes for a Candy Specialty.) No. 6,242; Aug. 1.

Milwaukee Paper Box Company, Milwaukee, Wis. "Mallo Milk Bar." (For Advertising Purposes for a Chocolate-Covered Almond and Nougat Bar.) No. 6,243; Aug. 1.

Mt. Union Tanning-Extract Co., Mount Union, Pa. "Greene Line Big Five Taps." (For Advertising Purposes for Sole Leather.) No. 6,244; Aug. 1.

Palmolive Company, The, Milwaukee, Wis. "What is the matter with your hair"? (For Advertising Purposes for Shampoo.) No. 6,245; Aug. 1.

Piccadilly Ink Company, Baltimore, Md. "Piccadilly Ink." (For Advertising Purposes for Said Piccadilly Ink.) No. 6,246; Aug. 1.

Richards, James E., Company, The, Dayton, Ohio. "Duck Clothing." (For Advertising Purposes for White Duck Clothing.) No. 6,247; Aug. 1.

Simon Coat Co., The, Boston, Mass. "Simon's Pocket-Jerkin." (For Advertising Purposes for Our Leather Woolen-Cloth-Lined Vest with Pockets.) No. 6,248; Aug. 1.

Sunny Susan Laboratories, Inc., Buffalo, N. Y. "Certificate of Purchase." (For Advertising Purposes for Freckle Cream.) No. 6,249; Aug. 1.

Sunny Susan Laboratories, Inc., Buffalo, N. Y. "Sunny Susan Freckle Cream." (For Advertising Purposes for Freckle Cream.) No. 6,250; Aug. 1.

Wetzel, Paul, New Rochelle, N. Y. "Dr. Paul Wetzel's Elastic Arch-Gripper." (For Advertising Purposes for a Circular Elastic Arch Support.) No. 6,251; Aug. 1.

Wrigley Pharmaceutical Co., Philadelphia, Pa. "Spearmint The New Tooth Paste for Children—and for Grown-ups too." (For Advertising Purposes for Tooth Paste.) No. 6,252; Aug. 1.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abraham & Straus, Inc., Brooklyn, N. Y. Coffee. No. 157,470; Aug. 1.

Acme White Lead & Color Works, Hamtramck, Mich. Insecticides, fungicides, disinfectants, cattle spray, etc. No. 160,914; Aug. 1.

Allegretti Chocolate Cream Co., Chicago, Ill. One, two, three, and five pound boxes of assorted chocolates. No. 155,469; Aug. 1.

Alpha-Lux Company, Inc. New York, N. Y. Rennet extract, rennet powder, rennet tablets, and junket tablets. No. 155,730; Aug. 1.

American Buckle Company, The, West Haven, Conn. Wire overall loops. No. 159,398; Aug. 1.

American Nickeloid Company, Peru, Ill. Sheet metals made of zinc and nickel or zinc plated with nickel. No. 161,402; Aug. 1.

Anaheim Bottling Works, Anaheim, Calif. Maltless carbonated beverages. No. 164,479; Aug. 1.

Arbour, William H., Pittsburgh, Pa. Preparation for the treatment of golfers. No. 140,705; Aug. 1.

Atlantic Mills, Providence, R. I. Worsted piece goods. No. 165,471; Aug. 1.

Aunt Molly's Kitchen, Muskegon, Mich. Chocolate candy and candied confection. No. 155,470; Aug. 1.

Automotive Products Corporation, Hazleton, Pa. Pistons and wrist pins. No. 158,551; Aug. 1.

B. V. D. Company, The, Baltimore, Md. Underwear of women and knitted fabrics. No. 157,824; Aug. 1.

B. & P. Company, The, Cleveland, Ohio. Preparation for preventing perspiration and for removing the odor thereof. No. 159,691; Aug. 1.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabrics. No. 163,253; Aug. 1.
Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabrics—viz, silk knitted cloth. No. 163,255; Aug. 1.
Barnickel, William S., & Co., St. Louis, Mo. Chemicals used in the treatment of petroleum emulsions to effect the recovery of the valuable oil content of such emulsions. No. 161,407; Aug. 1.
Barr-Nunn Company, The, Massillon, Ohio. General tonic. No. 159,690; Aug. 1.
Bayless Manufacturing Corporation, Austin, Pa. Water-finish fiber paper. No. 163,133; Aug. 1.
Berbecker, Julius, & Sons, Inc., New York, N. Y. Hand sewing needles. No. 161,167; Aug. 1.
Bilhuber, E., Incorporated, New York, N. Y. Medicinal preparations for treatment of diseases of the bladder and gall. No. 161,525; Aug. 1.
Bishop & Company, Los Angeles, Calif. Chocolate in cake form used for coating candies, cakes, and like goods, chocolate candies, and sweet chocolate. No. 138,749; Aug. 1.
Blaetz, J. H., Philadelphia, Pa. Hosiery. Nos. 158,215–6; Aug. 1.
Bo-Peep Corporation, The, Chicago, Ill. Pharmaceutical preparations. No. 160,690; Aug. 1.
Bolton, John A., trading as The Chilprufe Manufacturing Company, Leicester, England. Woolen fabrics. No. 160,108; Aug. 1.
Booth, Wilfrid I., Elmira, N. Y. Candy. No. 159,406; Aug. 1.
Boston Molasses Company, Boston, Mass. Molasses. No. 158,214; Aug. 1.
Bousquet, Paul L., doing business as Fruit-oil-ets Laboratories, Dayton, Ohio. Stomach, bowel, and liver tonic. No. 159,689; Aug. 1.
Brooke, Frederick W., Toronto, Ontario, Canada. Breath perfume. No. 159,682; Aug. 1.
Brown-Phelps Hosiery Company, Philadelphia, Pa. Hosiery. No. 159,076; Aug. 1.
Bruno, James, Brooklyn, N. Y. Fresh grapes. No. 157,909; Aug. 1.
Bull Dog Floor Clip Company, Winterset, Iowa. Floor clips for fastening wooden floors or the like to a concrete construction. No. 160,480; Aug. 1.
Camors, J. B., & Company Inc., New Orleans, La. Wheat flour. No. 155,160; Aug. 1.
Caradine Harvest Hat Company, St. Louis, Mo. Trade publication issued weekly for circulation among salesmen and buyers. No. 162,243; Aug. 1.
Cartoonigrams, Inc., St. Paul, Minn. Moving-picture films. No. 152,316; Aug. 1.
Ceil-U-Base Corporation, Dover, Del. Cleansing preparation for the teeth. No. 148,645; Aug. 1.
Champion Tool Company, Meadville, Pa. Farriers', blacksmiths', and cobblers' tools, etc., nippers, hoof parers, hoof shears, etc. No. 152,419; Aug. 1.
Cheesman, Clarence V., jr., Kew Gardens, N. Y. Hair nets. No. 161,481; Aug. 1.
Cheramy, Inc., New York, N. Y. Perfumes, toilet waters, face powders, sachet, cold cream, etc. No. 161,618; Aug. 1.
Chilprufe Manufacturing Company, The. (See Bolton, John A.)
Chore Utensils Corporation of America, The, Orange, N. J. Scouring cloths. No. 162,378; Aug. 1.
Collins-Hencke Candy Co., San Francisco, Calif. Candy. No. 154,121; Aug. 1.
Commander Mill Company, Minneapolis, Minn. Wheat Flour. No. 154,482; Aug. 1.
Conway, Carl C., Earle E. Conway, and Theodore P. Brown, doing business as Simplex Player Action Company, Worcester, Mass. Mechanical piano-playing apparatus. No. 126,673; Aug. 1.
Cookeville Overall Mfg. Co., Cookeville, Tenn. Men's and boys' outing or work shirts, overalls, overcoats, and suits. No. 151,755; Aug. 1.
Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 164,376; Aug. 1.
Cortland Line Co. Inc., Cortland, N. Y. Hard braided waterproof silk fishing lines. No. 164,382; Aug. 1.
Coveland Orchards, Greensboro, N. C. Apples, fresh, dried, or canned. No. 127,256; Aug. 1.
Crofts & Reed Co., Chicago, Ill. Toilet soaps. No. 160,112; Aug. 1.
Cudahy Packing Company, The, Chicago, Ill. Soap. No. 152,912; Aug .1.
Daniels and Fisher Stores Company, The, Denver, Colo. Cold, lemon beauty, and tissue creams, lip sticks, eyebrow pencils, etc. No. 157,359; Aug. 1.
Davis-Smith Company, The, Boston, Mass. Christmas, birthday, etc., cards, invitations, and valentines, labels, menus, programs, etc. No. 160,796; Aug. 1.
Deming, William L., doing business as Standard Specialty Company, Salem, Ohio. Hose supporters. No. 155,489; Aug. 1.
Diebold Safe and Lock Company, Canton, Ohio. Filing, skeleton, fire and burglar proof, and manganese safes, vault doors, locks, etc. No. 162,162; Aug. 1.
Diver, Pauline L., doing business as Marvel Specialties Company, New York, N. Y. Hair pomades. No. 160,798; Aug. 1.
Driesen, Meyer & Oronsky, New York, N. Y. Outer suits for males. No. 157,559; Aug. 1.
Duplan Silk Corporation, New York, N. Y. Silk piece goods. No. 165,486; Aug. 1.
Eastman Kodak Company, Rochester, N. Y. Sensitized film. No. 152,122; Aug. 1.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 165,441; Aug. 1.
Engel, H., & Sons, New York, N. Y. Handkerchiefs. No. 165,127; Aug. 1.
Engel, H., & Sons, New York, N. Y. Handkerchiefs. Nos. 165,129–30; Aug. 1.
Feldman & Weinman, Baltimore, Md. Work shirts. Nos. 157,606–7; Aug. 1.
Flannery Bolt Company, Wilmington, Del., and Pittsburgh, Pa. Boiler stay bolts, track, frog, and switch bolts and nuts and stay bolts. No. 148,437; Aug. 1.
Foame Co. (See Winberg, W. Wm.)
Follansbee Brothers Company, Pittsburgh, Pa. Ferrous-metal plates and sheets. No. 161,827; Aug. 1.
Forbes Tubular Products Corporation, Ramapo, N. Y. Metallic tubing. No. 157,363; Aug. 1.
Foster, C. B., Packing Co. Inc., Biloxi, Miss. Canned oysters. No. 146,004; Aug. 1.
Foster, C. B., Packing Co., Inc., Biloxi, Miss. Canned shrimp. No. 146,005; Aug. 1.
Francione, Raffaele, trading as Red Bird Malt & Hop Co., Washington, D. C. Malt and hops compound. No. 163,331; Aug. 1.
Fruit-oil-ets Laboratories. (See Bousquet, Paul L.)
Fuld Brothers, New York, N. Y. Cotton tablecloths, woolen and cotton blankets. No. 165,132; Aug. 1.
G. B. G. Mfg. Co. Inc., The, New York, N. Y. Ladies' and misses' coats and suits. No. 152,467; Aug. 1.
Gainesville Potato Growers Co-Operative Association, Inc., Gainesville, N. Y. Fresh potatoes. No. 158,770; Aug. 1.
General Dental Company, The, Columbus, Ohio. Preparation for the prevention and treatment of pyorrhea, tonsillitis, sore throat, and influenza. No. 158,978; Aug. 1.
Gimbal Brothers, San Francisco, Calif. Candy. No. 155,343; Aug. 1.
Glasser, C. T., doing business as Poppette Confection Co., Minneapolis, Minn. Candied pop corn. No. 137,371; Aug. 1.
Glenby's, S., Sons Co. Inc., New York, N. Y. Powder puffs. No. 164,425; Aug. 1.
Goddard, J. W., & Sons, Incorporated, New York, N. Y. Cotton piece goods. No. 160,186; Aug. 1.
Goldsmith & Lerner, Inc., New York, N. Y. Dress, negligee, and work shirts, pyjamas, collars, cuffs, etc. No. 124,438; Aug. 1.
Grace Darling Candy Shop, Inc., Minneapolis, Minn. Candy. No. 157,713; Aug. 1.
Great Western Milling Company, Los Angeles, Calif. Wheat flour. No. 155,259; Aug. 1.
Guthrie & Co. (Limited), Singapore, Straits Settlements, and London, England. Coats, suits, underwear, hosiery, etc. No. 154,309; Aug. 1.
Haefeli Drug Co. (See Haefeli, William.)
Haefeli, William, doing business as Haefeli Drug Co., New York, N. Y. Salve for the treatment of muscular and inflammatory rheumatism. No. 150,861; Aug. 1.
Haines, George T., Omaha, Nebr. Ice-cream chocolate confections. No. 159,090; Aug. 1.
Hatfield & Bell, Brooklyn, N. Y. Nonalcoholic, maltless beverages sold as soft drinks. No. 164,313; Aug. 1.
Herstein, James, Los Angeles, Calif. Yeast compound for use as a general tonic. No. 159,026; Aug. 1.
Ho-Ro-Co Manufacturing Company, St. Louis, Mo. Food-flavoring extracts (alcoholic and nonalcoholic), spices, tea, and cocoa. No. 159,315; Aug. 1.
Hodgson, Aurora Q., New York, N. Y. Powder puffs of wool yarn crocheted. No. 165,135; Aug. 1.
Hood, H. P., & Sons, Inc., Boston, Mass. Coated frozen confections. No. 159,361; Aug. 1.
Humidisk Company, Detroit, Mich. Tobacco humidifier. No. 165,550; Aug. 1.
International All-Steel Aircraft Syndicate, Ltd., The, London, England. Aircraft—namely, flying machines, aeroplanes, and seaplanes. No. 142,845; Aug. 1.
Ivy Corset Company, Worcester, Mass. Ladies' underwear consisting of bloomers, knickerbockers, undervests. No. 158,928; Aug. 1.
Jacques Wolf & Co., Passaic, N. J. Remedy for dyspepsia. Nos. 161,605–6; Aug. 1.
Julian Pump & Manufacturing Company, The, Jamestown, N. Y. Self measuring and dispensing pumps. No. 156,634; Aug. 1.
Kahookano, John K., Rawlins, Wyo. Smoking pipes. No. 162,258; Aug. 1.
Kansas Live Stock Association, Topeka, Kans. Semi-monthly periodical. No. 159,519; Aug. 1.
Kenilworth Mfg. Co., Newark, N. J. Horn buttons. No. 161,134; Aug. 1.
Kershaw, Nelson, Clifton Heights, Pa. Bath towels. No. 165,084; Aug. 1.
Kewaskum Aluminum Company, Kewaskum, Wis. Aluminum kitchen utensils. No. 131,026; Aug. 1.
Knothe Brothers Co. Inc., New York, N. Y. Pyjamas. No. 165,629; Aug. 1.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Kohnstamm, H., & Co. Inc., New York, N. Y. Aniline blues for laundry purposes. No. 161,488; Aug. 1.
Kostitch, Josephine, Denver, Colo. Lotion or cream for the skin. No. 157,999; Aug. 1.
Lauerman Brothers Company, Marinette, Wis. Knitted underwear for men, women, and children, and hosiery. No. 147,435; Aug. 1.
Leto Photo Materials Co. (1905) Ltd., The, London, England. Photographic printing paper. No. 162,305; Aug. 1.
Levy, Ernest & Herman, Inc., New York, N. Y. Velvet ribbon. No. 161,732; Aug. 1.
Lieberman, David & Co., New York, N. Y. Men's dress, negligee, and work shirts. No. 158,383; Aug. 1.
Linden Pharmacal Company, Norfolk, Va. Medicines for the treatment of colds, coughs, and la grippe. No. 156,194; Aug. 1.
Lipman Wolfe & Co., Portland, Oreg. Chocolates. Nos. 155,313–14; Aug. 1.
Little Giant Shoe Co., The, Chicago, Ill. Leather shoes. No. 159,712; Aug. 1.
Lucas, Louis, Company, Inc., Jamestown, N. Y. Aromatic incense. No. 161,489; Aug. 1.
Ludlow Manufacturing Associates, Boston, Mass. Jute webbing. No. 165,148; Aug. 1.
Ludlow Manufacturing Associates, Boston, Mass. Jute bagging. Nos. 165,296–7; Aug. 1.
Ludlum Steel Company, Watervliet, N. Y. Alloys used for electrical resistance and heating elements. No. 133,264; Aug. 1.
Lunepp Lace & Embroidery Co., South River, N. J. Pillowcases and bed wear. No. 163,994; Aug. 1.
Lurie Manufacturing Co., Chicago, Ill. Overalls, shirts, pants. No. 152,078; Aug. 1.
Lynch Heel Company, Chelsea, Mass. Rubber heels. No. 161,491; Aug. 1.
Lyvewyre Company, The, Washington, D. C., and Vidalia, Ga. Liquid charge for storage batteries. No. 159,602; Aug. 1.
Mackay, D. S., & Co., New York, N. Y. Woolen piece goods for coatings. No. 165,199; Aug. 1.
Maignen Chemical Company, Kansas City, Mo. Compound for treatment of the mucous membranes. No. 159,713; Aug. 1.
Mali Dunn Medicine Company, Boston, Mass. Medicinal preparation. No. 160,293; Aug. 1.
Mallinckrodt Chemical Works, St. Louis, Mo. Product used for the treatment of skin disease. No. 160,822; Aug. 1.
Marchiony Brothers, Inc., New York, N. Y. Ice cream, flavored ice, ice-cream bricks, cones, and sandwiches. No. 157,377; Aug. 1.
Markem Machine Co., Boston, Mass. Marking machines. No. 157,676; Aug. 1.
Marvel Specialties Company. (See Diver, Pauline L.)
Melson, Clifford & Co. Limited, London, England. Artificial silk fabrics in the piece. No. 159,877; Aug. 1.
Merriam, H. W., Shoe Company, The, Newton, N. J. Shoes. No. 160,892; Aug. 1.
Michael, B. F., Company, The. (See Michael, Benjamin F.)
Michael, Benjamin F., doing business as The B. F. Michael Company, Laceyville, Pa. Candy laxative. No. 161,369; Aug. 1.
Migel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 159,805; Aug. 1.
Miles, Dr., Grand Dispensary, Elkhart, Ind. Laxative medicine. No. 162,033; Aug. 1.
Miller, Isadore A., doing business as Prudent Chemical Co., Los Angeles, Calif. Antiseptic mouth wash, hair tonic, and face powder. No. 161,562; Aug. 1.
Minute Tapioca Company, Orange, Mass. Prepared tapioca and tapioca puddings. No. 153,765; Aug. 1.
Minute Tapioca Company, Orange, Mass. Prepared gelatin. No. 153,766; Aug. 1.
Mirrolike Mfg. Co., Long Island City, N. Y. Disinfectants, deodorants, and insecticides. No. 162,132; Aug. 1.
Mitchell-Bissell Company, New York, N. Y. Porcelain trimmings for plumbing fixtures. No. 158,240; Aug. 1.
Mitchell, T. J., & Co. Inc., New York, N. Y. Silk piece goods. No. 165,149; Aug. 1.
N. & G. Taylor Co. Incorporated, Philadelphia, Pa. Ferrous and nonferrous sheet metal. No. 161,155; Aug. 1.
Narrow Fabric Co., The, West Reading, Pa. Woven and braided trimmings. No. 160,502; Aug. 1.
Neustadtl, Victor, New York, N. Y. Malt extracts and sirups. No. 161,939; Aug. 1.
New & Frank Company, Chicago, Ill. Ticking. No. 165,150; Aug. 1.
New Orleans Coffee Company Limited, New Orleans, La. Coffee. No. 139,957; Aug. 1.
Newey Bros. Ltd., Birmingham, England. Hairpins. No. 148,750; Aug. 1.
Pacific Clay Products Co., Los Angeles, Calif. Glazed stoneware. No. 165,713; Aug. 1.
Page, D. L., Inc., The, Boston, Mass. Candy. No. 157,900; Aug. 1.
Palmer Candy Co., Sioux City, Iowa. Candy. No. 154,418; Aug. 1.
Palmer, W. R., & Co. (See Palmer, Walter C.)
Palmer, Walter C., doing business as W. R. Palmer & Co., Cincinnati, Ohio. Mops. Nos. 166,014–16; Aug. 1.
Paramount Amusement Device Corporation, New York, N. Y. Amusement device of a mechanical pneumatic type. No. 162,195; Aug. 1.
Paristyle Novelty Co. Inc., New York, N. Y. Hair nets. No. 160,253; Aug. 1.
Polk County Packing Company, Lakeland, Fla. Oranges and grapefruit in their natural state. No. 145,968; Aug. 1.
Poppette Confection Co. (See Glasser, C. T.)
Porto Rico Fruit Exchange, The, San Juan, P. R. Oranges, grapefruit, and pineapples in their natural state and in tins; jams, marmalades, and jellies. No. 131,536; Aug. 1.
Prudent Chemical Co. (See Miller, Isadore A.)
Quaker City Chocolate & Confectionery Company, Philadelphia, Pa. Candy. No. 146,927; Aug. 1.
Quality Corset Company, Inc., New York, N. Y. Corsets. No. 152,035; Aug. 1.
Red Bird Malt & Hop Co. (See Francione, Raffaele.)
Reid Ice Cream Company, Brooklyn, N. Y. Ice Cream. No. 159,179; Aug. 1.
Remington Arms Company Inc., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; and New York, N. Y. Cash registers and parts thereof. Nos. 148,555–6; Aug. 6.
Richards & Co. (London) Limited, London, England. Dates. No. 144,297; Aug. 1.
Richards, James E., Company, The, Dayton, Ohio. Woven cotton textiles. No. 165,306; Aug. 1.
Richards, John H., Omaha, Nebr. Folding cots, tables, and chairs for outdoor use. No. 147,990; Aug. 1.
Rose & Frank Co., New York, N. Y. Cloth for making typewriter ribbons. Nos. 162,571–4; Aug. 1.
Rose & Frank Co., New York, N. Y. Typewriter cloth used for making typewriter ribbons and multigraph ribbons. No. 162,575; Aug. 1.
Roth Shoe Manufacturing Company, The, Cincinnati, Ohio. Women's boots and shoes made of leather, fabric, rubber, or combinations. No. 157,161½; Aug. 1.
Rupp, William, Newark, assignor to Sugola Company of New Jersey, Orange, N. J. Bakers' malt sirup for food purposes. No. 158,194; Aug. 1.
Samuel Ach Co., Inc., The, Cincinnati, Ohio. Caps and hoods. No. 157,546; Aug. 1.
Schill, H. Y. T., Co., New York, N. Y. Cloths known as piece goods. No. 165,166; Aug. 1.
Scholl Manufacturing Company, The, Chicago, Ill. Adhesive medicated shields or pads for corns, etc. No. 159,060; Aug. 1.
Schreiber Products Corporation, Buffalo, N. Y. Malt extract sirup for food purposes. No. 146,502; Aug. 1.
Scotland Co-Operative Cantaloupe Exchange, The, Laurenburg, N. C. Fresh cantaloupes. No. 157,639; Aug. 1.
Selby Shoe Co., The, Portsmouth, Ohio. Leather and canvas boots and shoes. No. 160,304; Aug. 1.
Shaffer M., Company, The, Philadelphia, Pa. Tonic for scalp and hair. No. 161,206; Aug. 1.
Shull, William A., doing business as The Velvetta Mfg. Co., Philadelphia, Pa. Insecticides. No. 157,851; Aug. 1.
Siegel, Rothschild & Co., Baltimore, Md. Umbrellas and parasols. No. 165,643; Aug. 1.
Signode System, Inc., Chicago, Ill. Materials for strapping boxes or the like. No. 156,023; Aug. 1.
Signode System, Inc., Chicago, Ill. Tools for applying bale ties. No. 158,544; Aug. 1.
Simplex Player Action Company. (See Conway, Carl C. and Earle E., and Theodore P. Brown.)
Smith, Michael P., doing business as Victory Manufacturing Co., Boston, Mass. Hair grower and hair tonic. No. 159,726; Aug. 1.
Sonnenschein, J., Hop Company, Inc., New York, N. Y. Treated paper used in the making of cigarettes. No. 163,291; Aug. 1.
Soule, J. W., Barstow, Calif. Remedy for use in treatment of piles. No. 162,069; Aug. 1.
Southern Dyestuff Company, Nitro, W. Va., and New York, N. Y. Dyestuffs. No. 160,907; Aug. 1.
Spencer, Bessie M., New York, N. Y. Cheese sticks, made of pastry or dough material and cheese. No. 153,476; Aug. 1.
Standard Specialty Company. (See Deming, William L.)
Stearns, Frederick, & Company, Detroit, Mich. Laxative oils, tonic laxative, laxative salts, etc. No. 145,677; Aug. 1.
Steel Products Manufacturing Company, Racine, Wis. Valves for gas engines and parts thereof. No. 157,779; Aug. 1.
Sterling Magnesia Co. Inc., The, New York, N. Y. Citrate of magnesia. No. 143,462; Aug. 1.
Stevens & Wallis, (Incorporated,) Salt Lake City, Utah. House organs. No. 157,538; Aug. 1.
Strouse, Adler & Co., New Haven, Conn. Corsets. No. 159,388; Aug. 1.
Sugola Company of New Jersey. (See Rupp, William, assignor.)
Thermatomic Carbon Co., Pittsburgh, Pa. Carbon black having a combination of uses. No. 161,017; Aug. 1.
Thomas & Buswell Inc., New York, N. Y. Hair nets. No. 163,015; Aug. 1.
Toch Brothers, New York, N. Y. Photographic developers. No. 161,810; Aug. 1.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Triple, P., Manufacturing Corporation, New York, N. Y. Children's drawers-supporting waists. No. 158,840; Aug. 1.
Troy Underwear Co. Inc., Troy, N. Y. Undershirts, drawers, and union suits. No. 158,806; Aug. 1.
U-File-M Binder Mfg. Company, Syracuse, N. Y. Loose-leaf binders. No. 152,904; Aug. 1.
United Cigar Stores Company of America, Jersey City, N. J., and New York, N. Y. Candy and chocolate. No. 154,772; Aug. 1.
United Fruit Company, Boston, Mass. Soap—namely, common, laundry, toilet, and bar. No. 163,241; Aug. 1.
United Fruit Company, Boston, Mass. Soap, common soap, laundry soap, toilet soap, and bar soap. No. 163,244; Aug. 1.
United Fruit Company, Boston, Mass. Soap, common laundry, toilet, and bar soap. No. 163,246; Aug. 1.
United Hat & Cap Co., Chicago, Ill. Children's caps. No. 158,955; Aug. 1.
United Hosiery Company, New York, N. Y. Hosiery. No. 143,846; Aug. 1.
United States Fastener Company, Portland, Me., and Boston, Mass. Snap fasteners used on gloves, pocketbooks, and similar articles. No. 162,700; Aug. 1.
Valiant, William H., Newark, N. J. Treated dust cloths. No. 151,966; Aug. 1.
Velvetta Mfg. Co., The. (See Schull, William A.)
Victory Manufacturing Co. (See Smith, Michael P.)
Walrath, John R., Gloversville, N. Y. Fabric gloves. No. 158,496; Aug. 1.
Ward Baking Company, New York, N. Y. Bread. No. 156,124; Aug. 1.
Western Electric Company, Inc., New York, N. Y. Electrical circuit and apparatus testing cabinets, current meters, etc. No. 158,067; Aug. 1.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Weekly magazines. No. 163,422; Aug. 1.
Wickwire Spencer Steel Corporation, Worcester, Mass. Metal kitchen and toilet goods and hardware. No. 141,820; Aug. 1.
Winberg Druggists Supply Co. (See Winberg, W. Wm.)
Winberg, W. Wm., trading as Foameg Co., Wilmette, Ill. Liquid shampoo. No. 145,380; Aug. 1.
Winberg, W. Wm., trading as The Winberg Druggists Supply Co., Wilmette, Ill. Membrane antiseptic. No. 145,381; Aug. 1.
Wolf, J. & M., Inc., New York, N. Y. Knit underwear and sweaters. No. 156,508; Aug. 1.
Worthington Pump and Machinery Corporation, New York, N. Y. Pumping machinery, pumps, air-lift pumps, hydraulic machinery, water turbines, etc. No. 149,608; Aug. 1.
Wozniak & Company, Chicago, Ill. Men's, young men's, and boys' outer garments—namely, suits, overcoats, spring coats, raincoats. No. 151,302; Aug. 1.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF AUGUST, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Addressing machines, Plate-restacking mechanism for. C. Chisholm. No. 1,424,153; Aug. 1.
Advertising device, Rotary. L. H. Cammack and H. A. Brown. No. 1,424,449; Aug. 1.
Advertising device. F. A. Sylvester. No. 1,424,323; Aug. 1.
Air cooler. C. W. Stone. No. 1,424,689; Aug. 1.
Aircraft. O. Langevin. No. 1,424,491; Aug. 1.
Animal trap. H. J. Hughey. No. 1,424,307; Aug. 1.
Antirattler. J. W. Martin. No. 1,424,577; Aug. 1.
Antiskid device. J. H. Evans. No. 1,424,347; Aug. 1.
Ant trap. J. D. Scrivner. No. 1,424,596; Aug. 1.
Arch form, Collapsible. G. A. Compton. No. 1,424,342; Aug. 1.
Arms practice, Target for small-. C. Fenton. No. 1,424,632; Aug. 1.
Arrow. R. P. Orr. No. 1,424,674; Aug. 1.
Article holder. D. C. Wisenberg. No. 1,424,607; Aug. 1.
Ash pan. W. C. Metzger. No. 1,424,508; Aug. 1.
Ash tray and similar receptacle. S. W. Farber. No. 1,424,348; Aug. 1.
Automobile. F. E. Johnson. No. 1,424,412; Aug. 1.
Automobile accessory. T. E. Sanderson. No. 1,424,382; Aug. 1.
Automobile accessories, Fastening means for. M. J.-B. Barbarou. No. 1,424,611; Aug. 1.
Automobile and carriage jack. G. R. Barker. No. 1,424,147; Aug. 1.
Automobile attachment. P. J. Ridenour. No. 1,424,679; Aug. 1.
Automobile bumper. F. A. Wernig. No. 1,424,699; Aug. 1.
Automobile canopy. A. W. Mueller. No. 1,424,421; Aug. 1.
Automobile drivers, Protective covering for. M. L. Rowe. No. 1,424,215; Aug. 1.
Automobile elevator. P. L. Schuyler and C. M. Snow. No. 1,424,186; Aug. 1.
Automobile engine-hood cover. J. A. and K. M. Balactar. No. 1,424,192; Aug. 1.
Automobile extricating device. J. A. Buron, jr. No. 1,424,616; Aug. 1.
Automobile lock. C. H. Rust. No. 1,424,262; Aug. 1.
Automobile locking device. W. P. Faulkner. No. 1,424,454; Aug. 1.
Automobile power attachment. T. J. Charon. No. 1,424,281; Aug. 1.
Automobile repair stand. J. W. Cole and A. E. Johnson. No. 1,424,190; Aug. 1.
Automobile signal. C. H. Noble. No. 1,424,374; Aug. 1.
Automobile tool. W. J. Nusbaum. No. 1,424,514; Aug. 1.
Automobiles, Back-view mirror for. J. Haughton. No. 1,424,405; Aug. 1.
Automobiles, Handle lock for. W. A. Somers. No. 1,424,686; Aug. 1.
Automobiles, Power take-off for. C. H. Stehl. No. 1,424,688; Aug. 1.
Automobiles, Safety device for. W. Fial. No. 1,424,633; Aug. 1.
Automobiles, Truss for. C. Smalley. No. 1,424,685; Aug. 1.
Awning-roller construction. J. F. King. No. 1,424,572; Aug. 1.
Bag holder, Laundry-. P. R. Syers. No. 1,424,690; Aug. 1.
Bag holder, Collapsible. W. B. Wills. No. 1,424,387; Aug. 1.
Bait, Artificial. W. A. Stolley. No. 1,424,385; Aug. 1.
Balance plates, Suspension for. J. T. F. Conti. No. 1,424,239; Aug. 1.
Balls, Balancing. R. F. Arnott. No. 1,424,191; Aug. 1.
Banjo. P. Gardie. No. 1,424,296; Aug. 1.
Bank bills, Container for holding. C. Healy. No. 1,424,356; Aug. 1.
Bar: *See*—
Bumper bar.
Bar cutting and straightening apparatus. J. F. Gail. No. 1,424,465; Aug. 1.
Battery-temperature controller. C. E. Limebarger. No. 1,424,731; Aug. 1.
Bearing. B. S. Moore. No. 1,424,315; Aug. 1.
Bearing, Thrust. S. N. Hall. No. 1,424,640; Aug. 1.
Bearings, Attachment for spindle. R. H. Hughey. No. 1,424,646; Aug. 1.
Beater engine. C. E. Greene. No. 1,424,399; Aug. 1.
Bed for automobiles, Folding tent. E. Tuttle. No. 1,424,222; Aug. 1.
Bed-rail fastening. D. F. Dyke. No. 1,424,284; Aug. 1.
Bed, Sofa. D. F. Dyke. No. 1,424,285; Aug. 1.
Bending press. F. W. McArdle. No. 1,424,366; Aug. 1.
Blading. W. B. Flanders. No. 1,424,242; Aug. 1.
Blanks, Bifurcating. R. L. Wilcox. Nos. 1,424,539–40; Aug. 1.
Blasting cap. A. La Motte. No. 1,424,204; Aug. 1.
Blasting with liquid air and producing same, Cartridge for. A. Kowastch. No. 1,424,488; Aug. 1.
Block: *See*—
Sheave block. Toy building block.
Blowpipe. J. Harris. No. 1,424,163; Aug. 1.
Blowpipe. J. Harris. No. 1,424,355; Aug. 1.
Boat-launching apparatus. G. Wright. No. 1,424,227; Aug. 1.
Boiler: *See*—
Steam boiler.
Boilers, Safety signal device for. J. C. Luedke. No. 1,424,313; Aug. 1.
Boll-weevil catcher. W. Stanalan. No. 1,424,265; Aug. 1.
Bolt: *See*—
Key bolt. Spring bolt.
Book cover and binder. R. J. Cross. No. 1,424,622; Aug. 1.
Book covers, Machine for affixing material to and embellishing. M. W. Voigtman. No. 1,424,269; Aug. 1.
Book covers or cases and the like, Machine for flattening or straightening. J. Murray. No. 1,424,583; Aug. 1.
Boring and milling machines, Attachment for. G. F. Kriesel. No. 1,424,489; Aug. 1.
Bottle. W. F. Crozier. No. 1,424,558; Aug. 1.
Bottle protector. C. S. Murch. No. 1,424,667; Aug. 1.
Bottle stoppers or the like, Attachment for water-. M. C. Schweinert. No. 1,424,740; Aug. 1.
Box: *See*—
Hairpin box. Switch box.
Box. E. Dobney. No. 1,424,159; Aug. 1.
Box-covering machines, Turn-in finger for. A. J. Morrison. No. 1,424,316; Aug. 1.
Boxes, Extension for conduit outlet. C. H. Bissell. No. 1,424,443; Aug. 1.
Bracket: *See*—
Bumper bracket. Bumper - supporting bracket.
Brake: *See*—
Railway brake. Trailer brake.
Brake mechanism. A. M. Bellony. No. 1,424,440; Aug. 1.
Bread cutter and cake cutter, One-lick. J. W. Wyatt. No. 1,424,389; Aug. 1.
Breath-exercising device. J. W. McPherson. No. 1,424,732; Aug. 1.
Brick-cleaning machine. S. M. Funk. No. 1,424,719; Aug. 1.
Brief case. B. Charsky. No. 1,424,152; Aug. 1.
Bromodiethylacetylcarboxyalkyl-urea compounds, Manufacture and production of. J. Callsen. No. 1,424,236; Aug. 1.
Broom. J. E. Eldridge. No. 1,424,241; Aug. 1.
Broom, Combination. D. W. Frank. No. 1,424,291; Aug. 1.
Brush, Fountain scrubbing. J. Horvath. No. 1,424,478; Aug. 1.
Brush holder. J. E. Trostle. No. 1,424,326; Aug. 1.
Brush-making machine. C. Yaeger. No. 1,424,545; Aug. 1.
Buckle, Belt. A. Mae. No. 1,424,417; Aug. 1.
Building construction. S. S. Levy. No. 1,424,172; Aug. 1.
Bumper bar. W. V. Isgrig. No. 1,424,359; Aug. 1.
Bumper bracket. W. J. Grotenhuis. No. 1,424,400; Aug. 1.
Bumper-supporting bracket. H. C. Evelyn. No. 1,424,395; Aug. 1.
Burner. J. S. Brennan. No. 1,424,149; Aug. 1.
Burner. J. B. Reeves. No. 1,424,739; Aug. 1.
Bushing remover. J. L. Rudolph. No. 1,424,261; Aug. 1.
Butt hook. E. E. Cochran. No. 1,424,238; Aug. 1.
Cable-hauling and body-dumping mechanism. L. M. Spencer. No. 1,424,425; Aug. 1.
Calculating device. J. Crompton and W. Gallagher. No. 1,424,344; Aug. 1.
Calculating machines, Full-stroke mechanism for. K. V. Rudin. No. 1,424,183; Aug. 1.
Calculating or computing purposes, Device for. H. and F. Brotherton. No. 1,424,194; Aug. 1.
Calipers. H. J. Leschen. No. 1,424,492; Aug. 1.
Candle holder. O. A. Larson. No. 1,424,573; Aug. 1.

Caps for mining and military purposes, Manufacture of detonating. W. Freiderich. No. 1,424,462; Aug. 1.
Carburetor for starting internal-combustion engines, Supplementary. C. G. Pullin. No. 1,424,320; Aug. 1.
Carburetors, Warming device for. C. D. Higgins. No. 1,424,567; Aug. 1.
Carding machines and the like, Stripping apparatus for. A. Smith. No. 1,424,598; Aug. 1.
Car door, Freight-. L. Franklin. No. 1,424,292; Aug. 1.
Car dump, Rotary. J. P. Mosier. No. 1,424,510; Aug. 1.
Car fender or guard. C. F. Richardson and M. S. Ferguson. No. 1,424,590; Aug. 1.
Car-loading apparatus. D. L. Calahan. No. 1,424,279; Aug. 1.
Car lock, Freight-. A. Kline. No. 1,424,168; Aug. 1.
Car sash, Ball-bearing. O. P. McLendon and H. G. Smith. No. 1,424,502; Aug. 1.
Cars and the like, Underframe or chassis for cycle side. M. M. Peters. No. 1,424,588; Aug. 1.
Cards, Frame for advertising. R. A. Johnston. No. 1,424,570; Aug. 1.
Carrier: *See*—
Tire carrier.
Carrier. O. O. Eaton. No. 1,424,630; Aug. 1.
Case: *See*—
Brief case. Manicure case.
Casing elevator. B. N. Youngken. No. 1,424,548; Aug. 1.
Caster socket. J. F. Gail. No. 1,424,466; Aug. 1.
Casting machine. P. E. Schwarz and T. D. Salmon. No. 1,424,595; Aug. 1.
Cellulose from vegetable fibers, Extraction of the. B. Cataldi. No. 1,424,620; Aug. 1.
Cellulosic colloids, Controlling the stabilizer content of. G. Rocker. No. 1,424,212; Aug. 1.
Cement-tile-making machine. W. Gillard. No. 1,424,469; Aug. 1.
Chain fastener, Auxiliary. G. W. Johnson. No. 1,424,569; Aug. 1.
Chain, Sprocket. C. L. Best. Nos. 1,424,441–2; Aug. 1.
Chair: *See*—
Folding chair.
Chair, Folding. N. C. Zirwes. No. 1,424,704; Aug. 1.
Change-making machine. S. J. Bell. No. 1,424,439; Aug. 1.
Chuck. W. B. Bronander. No. 1,424,235; Aug. 1.
Chuck. H. E. Sloan. No. 1,424,597; Aug. 1.
Chuck, Floating tool. H. J. Watts. No. 1,424,535; Aug. 1.
Cinematographic projectors, Magazine for. M. E. Myers. No. 1,424,735; Aug. 1.
Circuit-controlling mechanism. F. O. Hartman. No. 1,424,402; Aug. 1.
Circuit interrupter. C. H. Hodgkins. No. 1,424,304; Aug. 1.
Circuits, Lock for ignition. M. F. Gifford. No. 1,424,298; Aug. 1.
Clarinet. J. D. Mackey. No. 1,424,253; Aug. 1.
Clock, Alarm. O. Röseke. No. 1,424,214; Aug. 1.
Clock, Speaking. V. and J. Pinto. No. 1,424,516; Aug. 1.
Clock with preceding alarm, Alarm. O. Röseke. No. 1,424,213; Aug. 1.
Clocks, Rod gong for striking. W. E. Porter. No. 1,424,677; Aug. 1.
Clothesline. E. P. Dore and J. A. Kohn. No. 1,424,626; Aug. 1.
Clothesline fastener. J. A. Weth. No. 1,424,537; Aug. 1.
Clothes-pressing apparatus. J. J. Zuruk-Zurinsky. No. 1,424,549; Aug. 1.
Cloth holder. J. Pabst. No. 1,424,209; Aug. 1.
Clothing, Child's. E. D. Nester. No. 1,424,318; Aug. 1.
Clutch. J. B. Howe. No. 1,424,165; Aug. 1.
Coal or other material, Apparatus for drying. T. A. Goskar. No. 1,424,565; Aug. 1.
Coat-distributing machine, Pearl-. W. D. Wood. No. 1,424,544; Aug. 1.
Coating bonbons, Process and machine for. C. A. Fankhauser. No. 1,424,286; Aug. 1.
Coating cakes, etc., Apparatus for. F. Beers and H. L. Powell. No. 1,424,232; Aug. 1.
Cock or faucet, Vitreous-china. A. I. Fischer. No. 1,424,562; Aug. 1.
Collapsible stand. R. D. H. Anderson. No. 1,424,271; Aug. 1.
Combing machine. J. W. Clegg. No. 1,424,621; Aug. 1.
Combing machine. R. Taylor. No. 1,424,692; Aug. 1.
Compressor. G. I. Leonard. No. 1,424,312; Aug. 1.
Concrete-mixer loader. V. M. Price. No. 1,424,737; Aug. 1.
Concrete pavement, Machine for laying reenforcing for. P. A. Koehring. No. 1,424,169; Aug. 1.
Cones, Automatic feed device for pearling. F. E. Giozza. No. 1,424,638; Aug. 1.
Contact terminal. F. F. Forshee. No. 1,424,290; Aug. 1.
Container, Commodity. C. F. Schlosser. No. 1,424,682; Aug. 1.
Control apparatus, Machine-. J. C. Thom. No. 1,424,325; Aug. 1.
Control mechanism, Remote-. C. F. Hopewell. No. 1,424,410; Aug. 1.
Conveyers, Transfer drum for. H. E. Kantner. No. 1,424,249; Aug. 1.
Cooker. S. McCulloch. No. 1,424,500; Aug. 1.
Cooler: *See*—
Air cooler.
Cooling system. J. F. Peters. No. 1,424,259; Aug. 1.
Coop, Shipping. C. T. Sherman, sr. No. 1,424,218; Aug. 1.
Core machine. G. W. Combs. No. 1,424,341; Aug. 1.
Counterboring tool. J. H. Smith. No. 1,424,743; Aug. 1
Cover support, Balancing. F. C. Aschburner. No. 1,424,550; Aug. 1.
Cover, Switch-heater. W. T. Lawlor. No. 1,424,656; Aug. 1.
Cue-tip cutter. J. D. Martin. No. 1,424,506; Aug. 1.
Cultivating implement. J. W. Brownson. No. 1,424,552; Aug. 1.
Cultivator attachment. J. P. Neely. No. 1,424,669; Aug. 1.
Cultivator, Power. E. W. Getz. No. 1,424,297; Aug. 1.
Cup: *See*—
Lubricating-grease cup.
Curtain fixture. J. H. Boye. No. 1,424,337; Aug. 1.
Curtain rod, Adjustable. I. Bloom. No. 1,424,444; Aug. 1.
Curtain-window light. N. Murphy. No. 1,424,511; Aug. 1.
Curtains, Releasing handles for vestibule. W. E. Palt. No. 1,424,375; Aug. 1.
Cuspidor. J. Hayes. No. 1,424,247; Aug. 1.
Cuspidor, Flushing. R. H. Ankeny. No. 1,424,272; Aug. 1.
Cutter: *See*—
Cue-tip cutter. Potato cutter.
Glass cutter.
Cutting sheets or layers, Machine for. C. B. Johnson. No. 1,424,309; Aug. 1.
Cycle, Air. L. B. Kinnard. No. 1,424,653; Aug. 1.
Dental crown remover. L. R. Siegel. No. 1,424,527; Aug. 1.
Dental instrument. H. A. Adler. No. 1,424,707; Aug. 1.
Denture reliner. T. W. Carey, jr. No. 1,424,618; Aug. 1.
Desk and chair, Combined. J. P. Richards. No. 1,424,380; Aug. 1.
Developing tank. P. W. Smith. No. 1,424,423; Aug. 1.
Dial, Register. P. F. Quinlan, jr. No. 1,424,518; Aug. 1.
Direction indicator. S. Nakasora. No. 1,424,513; Aug. 1.
Display apparatus. E. L. Gale. No. 1,424,350; Aug. 1.
Display rack. J. M. Perry. No. 1,424,587; Aug. 1.
Distilling column. F. E. Lichtenthaeler. No. 1,424,173; Aug. 1.
Ditching machine. A. Cameron. No. 1,424,151; Aug. 1.
Door, Grain. J. McMurdo. No. 1,424,206; Aug. 1.
Door hanger. C. A. Kunz. No. 1,424,311; Aug. 1.
Door-operating mechanism, Garage-. A. Kubik. No. 1,424,650; Aug. 1.
Doors, Locking device for locker. W. N. Vance. No. 1,424,533; Aug. 1.
Drill: *See*—
Rock drill. Well drill.
Drill and screw set, Combined. S. Solop. No. 1,424,600; Aug. 1.
Drill press. C. A. Widmer. No. 1,424,538; Aug. 1.
Dust shield. J. F. Syrett. No. 1,424,324; Aug. 1.
Dynamometer. H. O. Hem. No. 1,424,357; Aug. 1.
Educational and amusement device. J. Galleazzi. No. 1,414,467; Aug. 1.
Egg and producing same, Preserved. M. Kasser. No. 1,424,484; Aug. 1.
Electrical coil. K. S. Johnson. No. 1,424,726; Aug. 1.
Electrical control apparatus. M. Wissinger. No. 1,424,702; Aug. 1.
Electric circuits, Controlling device for. C. Verrando. No. 1,424,328; Aug. 1.
Electric curler. M. G. Yeager. No. 1,424,546; Aug. 1.
Electric-current-changing means. C. J. Myers. No. 1,424,256; Aug. 1.
Electric gauge. E. F. Gallaudet. No. 1,424,637; Aug. 1.
Electric motor. H. E. Hoover. No. 1,424,164; Aug. 1.
Electric switch. A. C. Gilbert. No. 1,424,720; Aug. 1.
Elevator: *See*—
Automobile elevator. Casing elevator.
Elevator door. E. W. Fenn. No. 1,424,287; Aug. 1.
Elevator door, Pass-type. E. W. Fenn. No. 1,424,288; Aug. 1.
Elevator, Safety device for. J. Moschos. No. 1,424,665; Aug. 1.
Engine: *See*—
Beater engine.
Internal-combustion engine.
Engine-control circuits, Door. G. Oakley No. 1,424,257; Aug. 1.
Engines and vaporizing the motive fluid for such engines, Vaporizer or carburetor for internal-combustion. J. Wilkinson. No. 1,424,541; Aug. 1.
Engines, Cooling device for air-cooled. J. Bowen. No. 1,424,234; Aug. 1.
Engines, Cooling system for internal-combustion. H. C. Mallory. No. 1,424,664; Aug. 1.
Engines, Device for simultaneously starting a plurality of internal-combustion M. Schäfer. No. 1,424,185; Aug. 1.
Engines, Driving mechanism for the ground-treading members of traction. J. G. Leyner. No. 1,424,494; Aug. 1.
Engines, Pressure indicator for internal-combustion. G. B. Frankforter. No. 1,424,461; Aug. 1.
Evaporator. R. Mellor. No. 1,424,254; Aug. 1.
Extracting apparatus, Rotary. J. W. Bodman. No. 1,424,335; Aug. 1.
Fabrics, Producing a repair in. A. O. Austin. No. 1,424,332; Aug. 1.
Fan. J. C. Armstrong. No. 1,424,391; Aug. 1.
Firearm. J. M. Browning. No. 1,424,553; Aug. 1.

Fish scaler. R. C. Hartleb. No. 1,424,722; Aug. 1.
Flexible operating mechanism. P. L. Billingsley. No. 1,424,148; Aug. 1.
Floor structure. V. E. Rowland. No. 1,424,422; Aug. 1.
Flour-milling process. A. W. Woolcott. No. 1,424,608; Aug. 1.
Fluid-operated motor. O. E. Clark. No. 1,424,156; Aug. 1.
Fluids for injection purposes, Container for. J. J. Seelman. No. 1,424,187; Aug. 1.
Flying switch. F. W. Henrikson. No. 1,424,198; Aug. 1.
Flytrap. C. A. Carlyle. No. 1,424,619; Aug. 1.
Folding table. J. K. Zielonko. No. 1,424,610; Aug. 1.
Folding table, Knockdown. J. A. Malarkey. No. 1,424,419; Aug. 1.
Fruit-pitting machine. L. R. Barber. No. 1,424,436; Aug. 1.
Fuel-feeding and suction-inducing device. J. G. Coulombe. No. 1,424,715; Aug. 1.
Fuel-feeding apparatus. P. A. Kinzle. No. 1,424,486; Aug. 1.
Fuel-feeding apparatus. E. M. Okins. No. 1,424,258; Aug. 1.
Fuel mixer, Rotary. F. Funke. No. 1,424,244; Aug. 1.
Fuel tank. T. Midgley, jr. No. 1,424,369; Aug. 1.
Furnaces and cupolas, Drilling machine for tapping out hot metal of. J. E. Judy. No. 1,424,483; Aug. 1.
Fuse plug. T. F. Côté. No. 1,424,714; Aug. 1.
Garters, etc., Clasp for. E. Helm. No. 1,424,301; Aug. 1.
Gas and like meter. F. and H. T. Thorp. No. 1,424,220; Aug. 1.
Gas and producing same, Fuse for blasting with liquefied. A. Kowastch. No. 1,424,487; Aug. 1.
Gas fixture. J. Gentile. No. 1,424,351; Aug. 1.
Gas generator, Hydropneumatic. J. W. Duntley. No. 1,424,160; Aug. 1.
Gas, Method and apparatus for increasing the yield of hydrogen in coal. J. H. West and A. Jaques. No. 1,424,749; Aug. 1.
Gasket. C. Tasso and H. B. Daly. No. 1,424,691; Aug. 1.
Gauge: *See*—
Electric gauge. Micrometer gauge.
Gauging apparatus. A. G. Cooke. No. 1,424,556; Aug. 1.
Gear, Molded. F. H. Tupper. No. 1,424,267; Aug. 1.
Gear rack. G. F. Cane. No. 1,424,237; Aug. 1.
Gear system, Transmission-. W. F. Penrod. No. 1,424,210; Aug. 1.
Gear, Transmission. L. J. Mobley and A. V. Hays. No. 1,424,208; Aug. 1.
Gear wheel. G. M. Eaton. No. 1,424,240; Aug. 1.
Gear wheel. H. Keller. No. 1,424,203; Aug. 1.
Generator: *See*—
Gas generator.
Glass cutter, Rotary. C. F. Doerr. No. 1,424,625; Aug. 1.
Glass, Gauge. J. H. and W. J. Hanlon. No. 1,424,642; Aug. 1.
Glass, Manufacture of sheet. H. F. Clark. No. 1,424,155; Aug. 1.
Glass, Obtaining. J. M. Said. No. 1,424,184; Aug. 1.
Glove. S. A. Guerin. No. 1,424,639; Aug. 1.
Golf bag. N. Nesser. No. 1,424,317; Aug. 1.
Governors, Adjusting device for throttle. O. B. Whisenand. No. 1,424,270; Aug. 1.
Grease cup, Lubricating. F. S. Craven and J. Mihalyi. No. 1,424,557; Aug. 1.
Grease or oil dispensing apparatus. H. M. Boe. (Reissue.) No. 15,427; Aug. 1.
Grinder. W. F. Fraser. No. 1,424,398; Aug. 1.
Grinding curved trimming blades, Machine for. A. B. Fowler. No. 1,424,196; Aug. 1.
Grinding plate. H. and B. Buckley. No. 1,424,615; Aug. 1.
Gun, Grease. W. A. Yeagher, jr. No. 1,424,547; Aug. 1.
Gun, Lubricating. C. W. Manzel. No. 1,424,504; Aug. 1.
Gun, Trapper's spring. V. M. Brown. No. 1,424,614; Aug. 1.
Guns, combined with devices for correcting transverse and longitudinal inclinations of the gun carriage, Sighting, and aiming apparatus for field. E. Schneider. No. 1,424,594; Aug. 1.
Hair fastener. S. M. Kitson. No. 1,424,654; Aug. 1.
Hairpin box. S. H. Goldberg. No. 1,424,471; Aug. 1.
Hairpins or similar articles, Machine for making. S. H. Goldberg. No. 1,424,473; Aug. 1.
Hammer. F. W. Foley. No. 1,424,161; Aug. 1.
Hammer, Coved pivoted. M. F. Williams. No. 1,424,225; Aug. 1.
Handle: *See*—
Locking handle.
Handsaw, buffer, etc., Electrically-operated. C. Sandlin. No. 1,424,593; Aug. 1.
Hanger: *See*—
Door hanger. Window-screen hanger.
Harvesting machine. W. L. Hendricks. No. 1,424,746; Aug. 1.
Hatpin. H. Muehle. No. 1,424,666; Aug. 1.
Haystacker. C. Cooley. No. 1,424,158; Aug. 1.
Header. M. W. Kesterson and J. H. Latimer. No. 1,424,648; Aug. 1.
Headlights, Reflecting attachment for. H. J. Seely. No. 1,424,525; Aug. 1.
Heating apparatus, Electric. J. C. Cavitt. No. 1,424,340; Aug. 1.
Heel binder. E. W. Wood. No. 1,424,609; Aug. 1.
Hobbyhorse. C. H. Lister. No. 1,424,364; Aug. 1.
Hook: *See*—
Butt hook.
Hook positioner. W. T. Hurst. No. 1,424,479; Aug. 1.
Hoop, Adjustable. J. Lynn. No. 1,424,661; Aug. 1.
Hosiery mill waste, Utilization of. H. T. Fleisher. No. 1,424,458; Aug. 1.
Hub-cap-locking device. E. Ibach. No. 1,424,480; Aug. 1.
Hubs, Rotational driving connection such as detachable wheel. J. V. Pugh. No. 1,424,211; Aug. 1.
Huller rib. W. E. B. Jordan. No. 1,424,727; Aug. 1.
Hydrocarbon motor. H. P. Doolittle. No. 1,424,394; Aug. 1.
Hydrocarbon motor. J. G. Vincent. No. 1,424,428; Aug. 1.
Hydrocarbon motor. L. M. Woolson. No. 1,424,430; Aug. 1.
Hydrometer. C. E. Linebarger. No. 1,424,730; Aug. 1.
Ice-cream cabinet. C. J. Nilsson. No. 1,424,373; Aug. 1.
Ice-cream mix, Producing. P. W. Turney. No. 1,424,602; Aug. 1.
Ice-cream mix and making it. P. W. Turney. No. 1,424,603; Aug. 1.
Ice conserver. G. L. Holland. No. 1,424,477; Aug. 1
Ice pick. G. Trumpeter. No. 1,424,221; Aug. 1.
Index tab. C. F. Brenne. No. 1,424,338; Aug. 1.
Indicator: *See*—
Direction indicator.
Indicator. H. J. Kreba. No. 1,424,310; Aug. 1.
Inkstand. E. Salzmann. No. 1,424,216; Aug. 1.
Inner tube. B. G. Goble. No. 1,424,162; Aug. 1.
Internal-combustion engine. T. D. Wishart. No. 1,424,226; Aug. 1.
Jack: *See*—
Lifting jack. Pump jack.
Joint: *See*—
Mortise joint. Universal joint.
Pipe joint.
Key bolt. J. P. Northey. No. 1,424,319; Aug. 1.
Kiln: *See*—
Tunnel kiln.
Kitchen cabinet. D. Turbeville. No. 1,424,531; Aug. 1.
Kitchen and ironing table, Combined. J. A. Malarkey. No. 1,424,418; Aug. 1.
Knife-blade switch. A. H. Trumbull. No. 1,424,266; Aug. 1.
Knitting machine. H. T. Ballard. No. 1,424,274; Aug. 1.
Knitting machines, Cam mechanism for. K. Howie and W. O. Taylor. No. 1,424,725; Aug. 1.
Lamp, Acetylene. W. J. Frisbie. Nos. 1,424,463–4; Aug. 1.
Lantern. J. C. Frostead. No. 1,424,293; Aug. 1.
Last, Adjustable. H. F. Crawford. No. 1,424,343; Aug. 1.
Latch device. O. H. Orendorff. No. 1,424,673; Aug. 1.
Lathes, Abutment for the lead screws of. A. Drummond. No. 1,424,628; Aug. 1.
Lathes, Headstock of. A. Drummond. No. 1,424,629; Aug. 1.
Lavatories, Faucet attachment for. J. F. Kelly. No. 1,424,251; Aug. 1.
Lavatory. J. F. Kelly. No. 1,424,250; Aug. 1.
Legging. W. P. Manning. No. 1,424,207; Aug. 1.
Level. C. E. Wyckoff. No. 1,424,229; Aug. 1.
Life-saving suit. J. F. Mordica. No. 1,424,174; Aug. 1.
Lifter: *See*—
Valve lifter.
Lifting jack. M. T. Stranahan. No. 1,424,748; Aug. 1.
Lifting jack. W. C. Yarmolaitis. No. 1,424,390; Aug. 1.
Light: *See*—
Curtain-window light.
Limb, Artificial. H. C. Miller. No. 1,424,734; Aug. 1.
Limb, Artificial. G. H. Shrodes. No. 1,424,264; Aug. 1.
Liquid air, Receptacle for. G. Weber. No. 1,424,604; Aug. 1.
Liquid-fuel motor. R. Abell. No. 1,424,705; Aug. 1.
Liquid phase, Recovering valuable components in a. G. B. Burnham. No. 1,424,447; Aug. 1.
Liquid separator. C. A. Sanborn. No. 1,424,522; Aug. 1.
Lock: *See*—
Automobile lock. Nut lock.
Car lock.
Lock. H. G. Voight. No. 1,424,696; Aug. 1.
Locking handle. L. W. Gates. No. 1,424,245; Aug. 1.
Locomotive connecting rods, Bushing tightener for. H. G. Martin and M. H. Newgirg. No. 1,424,505; Aug. 1.
Log bunk. W. G. White. No. 1,424,330; Aug. 1.
Low-voltage installations, Wire-clamping terminal for. G. Steiner and J. Bohli. No. 1,424,219; Aug. 1.
Magneto, Flywheel. A. Kagenmaier. No. 1,424,201; Aug. 1.
Manicure case. S. H. Kaufmann. No. 1,424,571; Aug. 1.
Marcel-wave device. H. Zinn. No. 1,424,230; Aug. 1.
Materials, Apparatus for reducing. R. H. Warren. No. 1,424,697; Aug. 1.
Measuring apparatus. C. Wagner, jr., and G. P. Schmidt. No. 1,424,429; Aug. 1.
Measuring speed, Apparatus for. A. Seguin. No. 1,424,384; Aug. 1.
Mechanical movement. W. F. Fraser. No. 1,424,397; Aug. 1.
Metal wheel and making same. M. Lachman. No. 1,424,490; Aug. 1.
Metal-working machine. J. E. Ogden and J. Kennedy. No. 1,424,671; Aug. 1.

Meter: *See*—
Gas meter.
Micrometer gauge. J. A. Schleicher. No. 1,424,383; Aug. 1.
Milking machines, Master-pulsator mechanism for. C. H. Hapgood. No. 1,424,401; Aug. 1.
Mill: *See*—
Rolling mill.
Mineral-classifying device. J. H. Burgess. No. 1,424,339; Aug. 1.
Mixer: *See*—
Rotary fluid mixer.
Mixing device. R. B. Fryett. No. 1,424,349; Aug. 1.
Mold. H. W. Drews. No. 1,424,627; Aug. 1.
Molding. E. S. Lidstone. No. 1,424,658; Aug. 1.
Mortise joint. P. Isoardi. No. 1,424,481; Aug. 1.
Motor: *See*—
Electric motor. Hydrocarbon motor.
Fluid-operated motor. Liquid-fuel motor.
Motor. H. H. Nielsen. No. 1,424,585; Aug. 1.
Motor cycles and other vehicles having a single steering wheel, Elastic fork for. M. A. Violet. No. 1,424,695; Aug. 1.
Motors, Control system for single-phase. R. E. Hellmund. No. 1,424,300; Aug. 1.
Motors, Fan-belt pulley for internal-combustion. A. W. Jones. No. 1,424,413; Aug. 1.
Mower. P. A. Campbell, F. F. Eby, and S. H. Price. No. 1,424,617; Aug. 1.
Muffler cut-out. W. H. Cryan. No. 1,424,624; Aug. 1.
Musical notation. O. M. Fee. No. 1,424,718; Aug. 1.
Nesting device. I. Israel. No. 1,424,647; Aug. 1.
Nose ring. E. Glick. No. 1,424,563; Aug. 1.
Nut lock. T. H. Brown. No. 1,424,277; Aug. 1.
Oils, Converting. A. M. McAfee. No. 1,424,574; Aug. 1.
Ores and product resulting therefrom, Treating nickel. L. P. Burrows. No. 1,424,711; Aug. 1.
Oven attachment, Fire-grate. A. Nelson and O. H. Hinnard. No. 1,424,584; Aug. 1.
Overalls. A. A. L. Winderman and R. Rachmil. No. 1,424,388; Aug. 1.
Oxychloride, Making phosphorous. T. L. Bartleson. No. 1,424,193; Aug. 1.
Packing for hydraulic jacks. G. W. Berry. No. 1,424,233; Aug. 1.
Packing, Metallic rod. S. S. Kurtz, jr. No. 1,424,655; Aug. 1.
Packing ring. F. Ray. No. 1,424,377; Aug. 1.
Padlock. S. Wiloch. No. 1,424,543; Aug. 1.
Paint composition. K. B. Lamb. No. 1,424,414; Aug. 1.
Pan: *See*—
Ash pan.
Paper-cutting mechanism. W. F. Morse. No. 1,424,175; Aug. 1.
Paper filler. W. Hoskins. No. 1,424,306; Aug. 1.
Paper, Recovering waste. T. Jespersen. No. 1,424,411; Aug. 1.
Paper towel and like machine. E. Bruder. No. 1,424,709; Aug. 1.
Papers, Apparatus suitable for use in the drying of printed wall. J. Shorrock. No. 1,424,742; Aug. 1.
Pecan cracker, Automatic-feeding self-adjusting. H. E. Paolucci. No. 1,424,675; Aug. 1.
Phenolic condensation product article and manufacture. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,424,738; Aug. 1.
Phonograph, Portable. J. R. Rose. No. 1,424,681; Aug. 1.
Photographic apparatus, Sensitized-element package for. W. Pack. No. 1,424,736; Aug. 1.
Piano. J. H. Williams. No. 1,424,606; Aug. 1.
Pigment and pigment composition, etc. K. B. Lamb. No. 1,424,729; Aug. 1.
Pigment and producing the same. P. Fireman. No. 1,424,635; Aug. 1.
Pipe: *See*—
Tobacco pipe.
Pipe joint. S. E. Page. No. 1,424,586; Aug. 1.
Pipe wrench. J. Rudy. No. 1,424,381; Aug. 1.
Piston. N. E. Williams. No. 1,424,701; Aug. 1.
Piston and piston ring. H. B. Johnston. No. 1,424,200; Aug. 1.
Pitman end. R. C. Baker. No. 1,424,435; Aug. 1.
Plates, such as dental plates and the like, Stamp for thin sheet-metal. F. Hauptmeyer. No. 1,424,406; Aug. 1.
Pocketknife and nail clip, Combination. A. F. Blanchard. No. 1,424,551; Aug. 1.
Pole-puncturing machine. J. E. Lynch. No. 1,424,498; Aug. 1.
Polisher. G. G. Bush. No. 1,424,448; Aug. 1.
Potato cutter. H. J. Hanson. No. 1,424,474; Aug. 1.
Powder puff. W. Krohn. No. 1,424,649; Aug. 1.
Power system. F. O. Hartman. No. 1,424,404; Aug. 1.
Power transmission, Epicyclic-. L. R. Buckendale. No. 1,424,446; Aug. 1.
Power-transmission mechanism. C. C. Williams. No. 1,424,542; Aug. 1.
Press: *See*—
Bending press. Drill press.
Presses, Releasable fingers for offset. F. F. Richards. No. 1,424,260; Aug. 1.
Pressure gauges on fluctuating pressure water lines, Means for protecting. E. A. Averill. No. 1,424,145; Aug. 1.
Propeller. G. A. Ogrisek. No. 1,424,672; Aug. 1.
Pulverizer. L. I. and J. I. Hoke. No. 1,424,358; Aug. 1.
Pump jack. E. A. H. Jacob. No. 1,424,568; Aug. 1.
Pump, Multiple-chamber visible-flow oil. G. B. Nicholson. No. 1,424,176; Aug. 1.
Pumps, Lubricating system for deep-well. F. W. Krogh. No. 1,424,862; Aug. 1.
Rack: *See*—
Display rack. Trunk garment-holding rack.
Gear rack.
Radiator, Automobile. E. J. Feeny. No. 1,424,455; Aug. 1.
Radiator vent, Steam-. W. McDonald. No. 1,424,663; Aug. 1.
Radiators, etc., Draining device for motor-vehicle. J. Fisher. No. 1,424,636; Aug. 1.
Radiant-energy-receiving systems, Marine trailer for. J. H. Hammond, jr. No. 1,424,641; Aug. 1.
Radiosignaling. E. H. Loftin and H. H. Lyon. No. 1,424,365; Aug. 1.
Rail, Divided. J. A. Letherby. No. 1,424,657; Aug. 1.
Rail spike. H. O. Crippen. No. 1,424,623; Aug. 1.
Railway brake. J. P. Carlson. No. 1,424,393; Aug. 1.
Railway-dispatch-order support. L. H. Stean. No. 1,424,529; Aug. 1.
Railway signal device. C. J. Miller. No. 1,424,509; Aug. 1.
Railway vehicles, Brake apparatus for. W. Hildebrand. No. 1,424,303; Aug. 1.
Range, Kitchen. A. E. Lundberg. No. 1,424,660; Aug. 1.
Ray pencil into an intermittent one, Device for temporarily converting a continuous. P. Becker. No. 1,424,334; Aug. 1.
Razor hone, Safety-. W. F. Grogan. No. 1,424,246; Aug. 1.
Reamer. A. M. Vedoe. No. 1,424,268; Aug. 1.
Receptacle and advertising carrier, Combined trash. G. J. Richardson. No. 1,424,519; Aug. 1.
Receptacle and advertising carrier, Combined trash. G. J. Richardson and W. Sachs. No. 1,424,520; Aug. 1.
Receptacle, Dumping. F. Finckh and P. Krüger. No. 1,424,634; Aug. 1.
Reel: *See*—
Wire reel.
Reflector-renewal insert. H. F. Dunn. No. 1,424,561; Aug. 1.
Relay. J. Erickson. No. 1,424,346; Aug. 1.
Reproducing machines, Illuminating device for. R. F. Good. No. 1,424,352; Aug. 1.
Resilient wheel, Multiple-rim. H. McDermott. No. 1,424,252; Aug. 1.
Rheostat. J. Parkin, jr. No. 1,424,515; Aug. 1.
Rims, Locking device for demountable. H. W. Martin and L. M. Calhoun. No. 1,424,576; Aug. 1.
Rims, Tool for contracting or expanding demountable. J. W. Roberts. No. 1,424,680; Aug. 1.
Ring: *See*—
Nose ring. Packing ring.
Road making. H. H. Hurt. No. 1,424,308; Aug. 1.
Roads and the like, Apparatus for use in repair of. E. Meidal. No. 1,424,507; Aug. 1.
Rock drill. W. A. Smith. No. 1,424,188; Aug. 1.
Rod: *See*—
Curtain rod.
Rolling mill. J. Reimann. No. 1,424,678; Aug. 1.
Rompers. M. K. Redford. No. 1,424,589; Aug. 1.
Roof and like covering. W. H. Griffiths. No. 1,424,566; Aug. 1.
Roofing element. S. M. Ford. No. 1,424,459; Aug. 1.
Rubber and like materials, Machine for mixing or masticating. D. R. Bowen and C. F. Schnuck. No. 1,424,445; Aug. 1.
Rubber, Reclaiming. J. O. Navone. No. 1,424,668; Aug. 1.
Sack, Cotton-picker's. L. E. Nettles. No. 1,424,670; Aug. 1.
Sadirons, Gas heater for. O. H. Frank. No. 1,424,460; Aug. 1.
Safes, Machine for manufacturing. C. Fisher. No. 1,424,289; Aug. 1.
Sand and gravel screen, Combined. O. C. Crandall. No. 1,424,451; Aug. 1.
Sand-blast machine. R. G. Coburn. No. 1,424,713; Aug. 1.
Sash weight. W. S. Sanborn. No. 1,424,598; Aug. 1.
Saw, Hack. A. M. Remington. No. 1,424,378; Aug. 1.
Saw support, Undercutting-. R. Larson. No. 1,424,415; Aug. 1.
Scale and dirt collector. F. M. Gebhard. No. 1,424,197; Aug. 1.
Scale, Spring. C. H. Hapgood. No. 1,424,354; Aug. 1.
Sciopticon apparatus. E. Fegraeus. No. 1,424,457; Aug. 1.
Scow, Self-bailing. H. T. Dunbar. No. 1,424,452; Aug. 1.
Screw driver. C. A. Bates and E. Fults. No. 1,424,275; Aug. 1.
Screw driver. T. J. Fegley and W. S. Snyder. No. 1,424,456; Aug. 1.
Screw-driver attachment. J. V. Work. No. 1,424,703; Aug. 1.
Seaming machine, Double-. S. McCulloch. No. 1,424,499; Aug. 1.

Separator: *See*—
Liquid separator.
Sewing machine. C. M. Abercrombie. No. 1,424,706; Aug. 1.
Sewing machines, Adjustable carrier for. I. F. Webb. No. 1,424,698; Aug. 1.
Sheave block. D. G. Manges. No. 1,424,503; Aug. 1.
Shipping case, Knockdown metal. W. R. Hartley. No. 1,424,723; Aug. 1.
Shock absorber. R. M. Gruss. No. 1,424,721; Aug. 1.
Shoe-counter flexor. W. J. Kappel. No. 1,424,166; Aug. 1.
Shoe manufacture. S. C. Wilson. No. 1,424,745; Aug. 1.
Signal: *See*—
Automobile signal. Vehicle signal.
Sight, Grade. E. J. Benoist. No. 1,424,613; Aug. 1.
Singletree. J. M. Moore. No. 1,424,255; Aug. 1.
Sliver-lap-feeding mechanism. L. G. Macintyre. No. 1,424,580; Aug. 1.
Soil treatment, Process of and apparatus for. H. Knight and C. A. Brewer. No. 1,424,728; Aug. 1.
Sorting-machine elements, Apparatus for. C. T. Morey. No. 1,424,370; Aug. 1.
Spark plug. C. T. Roth and E. P. Nicholson. No. 1,424,591; Aug. 1.
Spark plug. L. S. Williams and B. Kerr. No. 1,424,700; Aug. 1.
Spark-plug core. H. J. Seely. No. 1,424,526; Aug. 1.
Spat and puttee, Combined. C. Tweedie. No. 1,424,532; Aug. 1.
Specific-gravity device. F. O. Hartman and C. T. Anderson. No. 1,424,403; Aug. 1.
Speed tool, High-. E. I. Wenger. No. 1,424,536; Aug. 1.
Spirits and rosin from yellow and green pine stumps, Means for extracting crude. J. M. Jordon. No. 1,424,248; Aug. 1.
Spoke tightener. E. M. and J. D. Tucker. No. 1,424,530; Aug. 1.
Spotlight support. J. C. Stearns. No. 1,424,687; Aug. 1.
Spring bolt. T. E. Adkins. No. 1,424,331; Aug. 1.
Spring structure. D. H. Van Hove. No. 1,424,744; Aug. 1.
Sprocket, Expansion. W. C. Trout. No. 1,424,327; Aug. 1.
Stand: *See*—
Automobile repair stand. Collapsible stand.
Stay-bolt structure. R. S. Mennie. No. 1,424,733; Aug. 1.
Steam boiler. E. I. Dodds. No. 1,424,559; Aug. 1.
Steam boiler. W. F. Stern. No. 1,424,322; Aug. 1.
Steel alloy, Noncorrosive. W. Belleville. No. 1,424,612; Aug. 1.
Steel and producing same from nickel ore, Alloy for forging. L. P. Burrows. No. 1,424,710; Aug. 1.
Steering wheels, Tilting and locking device for. R. S. Busby. No. 1,424,555; Aug. 1.
Stockings, Refooting. H. A. Berendsen. No. 1,424,708; Aug. 1.
Stoker. J. MacPherson, jr. No. 1,424,575; Aug. 1.
Street marker. A. Lipse and J. Mangiaracina. No. 1,424,416; Aug. 1.
Sundae-cup holder and dispenser, Sanitary. P. T. Potts. No. 1,424,517; Aug. 1.
Swing, Folding. C. B. Helms. No. 1,424,302; Aug. 1.
Switch: *See*—
Electric switch. Knife-blade switch.
Flying switch. Safety switch.
Switch box. T. Helske. No. 1,424,407; Aug. 1.
Switch casing and cover lock. R. K. Mason. No. 1,424,579; Aug. 1.
Switch, Safety. R. K. Mason. No. 1,424,578; Aug. 1.
Table: *See*—
Folding table.
Tag for babies, Identification. L. A. and J. G. Huntoon. No. 1,424,747; Aug. 1.
Tank: *See*—
Developing tank. Fuel tank.
Teeth, Button for removably fixing the suction disk of a set of. E. A. Schmerel. No. 1,424,321; Aug. 1.
Telegraphy, Signaling unit for wireless. S. G. Frost. No. 1,424,294; Aug. 1.
Telephone circuit, Substation. T. G. Martin. No. 1,424,368; Aug. 1.
Telephone system. H. J. Herink. No. 1,424,644; Aug. 1.
Tension device and guide for thread, Combined. H. Riviere. No. 1,424,182; Aug. 1.
Tickers or other instruments, Projector combined with printing mechanism of. R. D. Wyckoff. No. 1,424,228; Aug. 1.
Tie rack and cover. E. O. Goldsmith. No. 1,424,564; Aug. 1.
Tile, Superlocking hollow. O. V., E. L., and E. C. Neese. No. 1,424,372; Aug. 1.
Tire. G. Jacobs. No. 1,424,360; Aug. 1.
Tire. C. A. Wagner. No. 1,424,223; Aug. 1.
Tire carrier. G. W. Stewart. No. 1,424,601; Aug. 1.
Tire cores, Cement shield for. R. J. Humelbau. No. 1,424,199; Aug. 1.
Tire, Resilient. E. Baumann. No. 1,424,231; Aug. 1.
Tire, Resilient. D. A. Garden. No. 1,424,468; Aug. 1.
Tire rim, Sectional. H. H. Hively. No. 1,424,476; Aug. 1.
Tire trimmer. J. M. Anglietti. No. 1,424,433; Aug. 1.
Tires, Low-pressure alarm for pneumatic. W. H. Brown. No. 1,424,278; Aug. 1.
Tobacco pipe. W. W. Hesson. No. 1,424,498; Aug. 1.
Tool and holder therefor. W. W. Baker and F. W. Franklin. No. 1,424,392; Aug. 1.
Tooth-cleaning articles, Holder for. H. Ausubel. No. 1,424,434; Aug. 1.
Torch, Acetylene. J. J. Strobot. No. 1,424,189; Aug. 1.
Toy. I. M. Childs. No. 1,424,450; Aug. 1.
Toy. J. Farr. No. 1,424,453; Aug. 1.
Toy building block. H. Purdy. No. 1,424,376; Aug. 1.
Toy, Figure. H. N. J. Linder. No. 1,424,659; Aug. 1.
Toy, Figure wheeled. J. W. Barnhart. No. 1,424,437; Aug. 1.
Toy pistol. O. G. Amlee. No. 1,424,432; Aug. 1.
Toy, Wheeled. M. N. Faulk. No. 1,424,396; Aug. 1.
Tractor. J. G. Leyner. No. 1,424,493; Aug. 1.
Tractor. L. Nilson. No. 1,424,177; Aug. 1.
Tractor. J. C. Westmont. No. 1,424,224; Aug. 1.
Tractor, truck, and other heavy-duty engines, Cranking mechanism for. P. A. Kinzie. No. 1,424,485; Aug. 1.
Tractors, Automatically-operating oiling mechanism for the interior motor-driven parts of. J. G. Leyner. No. 1,424,495; Aug. 1.
Tractors, Drawbar coupling for. P. J. Edmonds. No. 1,424,631; Aug. 1.
Trailer brake. A. Arato. No. 1,424,273; Aug. 1.
Trailer connection. S. E. Liedabrand. No. 1,424,496; Aug. 1.
Trailer-dumping mechanism. L. M. Spencer. No. 1,424,424; Aug. 1.
Trailer-dumping mechanism. L. M. Spencer. No. 1,424,426; Aug. 1.
Train-control apparatus, Valve mechanism for automatic. R. L. Miller. No. 1,424,420; Aug. 1.
Train-pipe connector, Automatic. B. J. Minnier and H. F. Bickel. No. 1,424,582; Aug. 1.
Train stop. W. E. Higgins and G. S. Mann. No. 1,424,645; Aug. 1.
Tramways and railways, Automatic block apparatus for electric. D. Samaia. No. 1,424,217; Aug. 1.
Trap: *See*—
Animal trap. Ant trap.
Traylike articles, Machine for aligning the flanges of. G. W. Case and J. W. Roberts. No. 1,424,280; Aug. 1.
Tread, Armored wheel. E. S. Seavey. No. 1,424,524; Aug. 1.
Tricycle. P. P. Simeon. No. 1,424,684; Aug. 1.
Trimmer: *See*—
Tire trimmer.
Trolley. W. P. Krause. No. 1,424,361; Aug. 1.
Trolley harp. C. J. Dorrance. No. 1,424,716; Aug. 1.
Trolley harp, Flexible. C. J. Dorrance. No. 1,424,717; Aug. 1.
Trough. C. G. Naylor and G. F. Hauf. No. 1,424,371; Aug. 1.
Truck. J. B. Baum. No. 1,424,438; Aug. 1.
Truck. G. L. Squire. No. 1,424,528; Aug. 1.
Trunk garment-holding rack. J. T. Batts. No. 1,421,333; Aug. 1.
Tube: *See*—
Inner tube.
Tube and closure therefor and joining same, Dispensing. F. L. Fox. No. 1,424,243; Aug. 1.
Tube-closing mechanism. W. S. Pritchard. No. 1,424,180; Aug. 1.
Tube-cutting mechanism. S. H. Goldberg. No. 1,424,472; Aug. 1.
Tube-cutting mechanism. W. S. Pritchard. No. 1,424,179; Aug. 1.
Tubes, Forming. A. W. Stoner. No. 1,424,386; Aug. 1.
Tubes of condensers, boilers, etc., Cleaner for. M. K. Bowman. No. 1,424,336; Aug. 1.
Tubing, Forming soldered seamed. D. B. Lee. No. 1,424,170; Aug. 1.
Tubing, Machine for manufacturing. D. B. Lee. No. 1,424,171; Aug. 1.
Tubing, Method and machine for soldering. W. S. Pritchard. No. 1,424,181; Aug. 1.
Tunnel kiln. A. M. Duckham and A. T. Kent. No. 1,424,560; Aug. 1.
Turbine. H. A. King. No. 1,424,167; Aug. 1.
Turbine. H. F. Schmidt. No. 1,424,263; Aug. 1.
Typewriting machine. J. B. Holden. No. 1,424,409; Aug. 1.
Underwear supporter, Adjustable elastic shoulder. A. G. Walsh. No. 1,424,329; Aug. 1.
Universal joint. R. A. Hartmann. No. 1,424,299; Aug. 1.
Valve and pipe union, Combined. J. O. Hofberg. No. 1,424,305; Aug. 1.
Valve gear. H. O. Baker. No. 1,424,146; Aug. 1.
Valve lifter. R. I. Shibiya. No. 1,424,683; Aug. 1.
Valve silencer. J. P. McCallus. No. 1,424,205; Aug. 1.
Valve-spring compressor. M. Musgrave. No. 1,424,512; Aug. 1.
Vehicle, Brick-carrying. D. F. Shope. No. 1,424,741; Aug. 1.
Vehicle, Child's. J. Lo Verde and A. Tubiolo. No. 1,424,497; Aug. 1.
Vehicle, Motor. J. G. Vincent. No. 1,424,427; Aug. 1.
Vehicle, Motor. J. G. Vincent. Nos. 1,424,693–4; Aug. 1.
Vehicle signal. J. H. Kaley. No. 1,424,652; Aug. 1.
Vehicle undercarriage. W. H. Dunkley. No. 1,424,345; Aug. 1.
Vehicle wheel. C. A. Marien. No. 1,424,314; Aug. 1.

Vehicles, Friction driving gear for motor. G. S. Mepstead. No. 1,424,581; Aug. 1.
Vehicles, Lock for motor. D. Gagin. No. 1,424,295; Aug. 1.
Vehicles, Safety lock for motor. G. A. Sokolove. No. 1,424,599; Aug. 1.
Vehicles, Shock absorber for. R. E. Hasemeier. No. 1,424,475; Aug. 1.
Vehicles, Speed-limiting mechanism for. L. Saives. No. 1,424,523; Aug. 1.
Vehicles, Steering-wheel lock for motor. C. M. Grey. No. 1,424,353; Aug. 1.
Vending machine. R. C. Burnham. No. 1,424,150; Aug. 1.
Vulcanizing devices, Method and apparatus for manipulating. H. R. Gilson and G. F. Fisher. No. 1,424,470; Aug. 1.
Waistband. M. L. Heller. No 1,424,724; Aug 1.
Warp twisting-in machine. J. H. Becker. No. 1,424,276; Aug. 1.
Washing machine. A. A. Clark. No. 1,424,154; Aug. 1.
Washing, rinsing, and wringing machine, Combined. A. H. Welhe. No. 1,424,605; Aug. 1.
Watch and clock. J. Demko and P. Greschner. No. 1,424,195; Aug. 1.
Waterer, Plant. H. A. Cook. No. 1,424,157; Aug. 1.
Weather strip. A. V. Culver and W. A. Waddell. No. 1,424,283; Aug. 1.
Well drill. I. J. McCullough. No. 1,424,662; Aug. 1.
Wheel: *See*—
Gear wheel. Wire-spoke wheel.
Vehicle wheel.
Wheel for power-propelled vehicles. J. R. McFall. No. 1,424,367; Aug. 1.
Windlasses, Clutch for. S. McIntosh and J. S. Guild. No. 1,424,501; Aug. 1.
Window device, Vehicle. H. Clausen No. 1,424,282; Aug. 1.
Window-screen hanger. C. D. Agee. No. 1,424,431; Aug. 1.
Wire-insulating stripper. W. Jannell. No. 1,424,482; Aug. 1.
Wire-link-fabric machine. A. Rhenstrom and O. H. Watkins. No. 1,424,379; Aug. 1.
Wire reel. E. Fulda. No. 1,424,651; Aug. 1.
Wire-spoked wheel. E. G. Budd. No. 1,424,554; Aug. 1.
Wrapping and machine therefor. R. Leumann. No. 1,424,363; Aug. 1.
Wrapping machine. P. Varga. No. 1,424,534; Aug. 1.
Wrench: *See*—
Pipe wrench.
Wrench. W. E. Hawkins, jr. No. 1,424,643; Aug. 1.
Wrench. L. W. Keith. No. 1,424,202; Aug. 1.
Wrench. C. H. Noyes. No. 1,424,178; Aug. 1.
Wrench. C. B. Parsons. No. 1,424,676; Aug. 1.
Wrench. H. E. Rutter. No. 1,424,521; Aug. 1.
Wrenches, Attachment for. A. E. Carlberg. No. 1,424,712; Aug. 1.

ALPHABETICAL LIST OF DESIGNS.

Badge, button, emblem, or article of similar nature. F. Walter, jr. No. 61,334; Aug. 1.
Book end and candlestick, Combined. H. Reber. No. 61,328; Aug. 1.
Bookholder. A. S. C. and H. R. P. Forbes. No. 61,292; Aug. 1.
Box cover. H. W. Kelsey and W. H. Baer. Nos. 61,308–10; Aug. 1.
Button, badge, emblem, pin, or article of similar nature. F. H. Johnson. No. 61,306; Aug. 1.
Carton. H. W. Kelsey and W. H. Baer. No. 61,311; Aug. 1.
Doll, statuette, or similar article. M. T. Mifflin. No. 61,316; Aug. 1.
Garment protector. M. S. George No. 61,295; Aug. 1.
Ice-cream, pop corn, candy, or cake. W. H. Francis. No. 61,293; Aug. 1.
Lamp and phonograph, Combined. A. J. Burns. No. 61,291; Aug. 1.
Lamp base, Portable. T. L. Ryan. No. 61,331; Aug. 1.
Lamp fixture. A. J. D. Ohm. No. 61,317; Aug. 1.
Lamp fixtures, Arm for. A. J. D. Ohm. No. 61,318; Aug. 1.
Lamp stand, Combination. L. J. Ripich. No. 61,330; Aug. 1.
Lamp standard. E. B. Pike. Nos. 61,320–3; Aug. 1.
Paper for checks, drafts, or negotiable instruments, Safety. J. F. Shoemaker. No. 61,332; Aug. 1.
Picture-screen support, Portable motion-. P. S. Ponon. Nos. 61,324–5; Aug. 1.
Pin and hairpin holder, Combined. G. Kahn. No. 61,307; Aug. 1.
Plate or similar article J. E. Goodwin. Nos. 61,296–301; Aug. 1.
Ring. F. W. Riehl. No. 61,329; Aug. 1.
Ring or similar article. J. W. Mayer. No. 61,319; Aug. 1.
Statuette. H. W. Frishmuth. No. 61,294; Aug. 1.
Tire, Automobile. I. P. Smith. No. 61,333; Aug. 1.
Tire tread. F. A. Bollinger. No. 61,290; Aug. 1.
Toy dog. B. O. Bidwell. Nos. 61,288–9; Aug. 1.
Toy dog. F. W. Hopkins. Nos. 61,302–5; Aug. 1.
Toy dog. A. Lund. Nos. 61,312–15; Aug. 1.
Toy dog. W. H. Powers. Nos. 61,326–7; Aug. 1.
Typewriter mat. T. W. Arter. No. 61,287; Aug. 1.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Antifat medicines. Mar-Vello Remedies Co. No. 157,359; Aug. 1.
Antiseptic for teeth, sores, throat wash, and douches. F. B. Crocker. No. 157,320; Aug. 1.
Automobiles. Fulton Motors Corporation. Nos. 157,337–8; Aug. 1.
Automobiles and motor cycles. Vauxhall Motors, Limited. No. 157,400; Aug. 1.
Baking powder. Beech-Nut Packing Company. No. 157,307; Aug. 1.
Baking powder. Empire Food Products Company. No. 157,327; Aug. 1.
Baking powder. Laird Mfg. Co. No. 157,353; Aug. 1.
Bath salts. Cheramy, Incorporated. No. 157,315; Aug. 1.
Beer, malt tonic, sirup, and extracts, etc., Nonalcoholic near. Val Blatz Brewing Company. No. 157,399; Aug. 1.
Beverage sold as a soft drink. Garrett & Co. No. 157,415; Aug. 1.
Beverage sold as soft drink and sirups for making same. Mouquin Restaurant and Wine Company. No. 157,427; Aug. 1.
Beverages and sirups sold as soft drink. Ginseng Bottling Co., The. No. 157,416; Aug. 1.
Beverages, Malt extract, gelatine, and hops for making. L. Spencer. No. 157,436; Aug. 1.
Beverages sold as soft drinks, Nonalcoholic. L. Weinfeld. No. 157,442; Aug. 1.
Beverages sold as soft drinks, sirups and extracts therefor. J. J. McLaughlin Limited. No. 157,425; Aug. 1.
Blood purifier, cleanser, and system builder. Hart-Shaw-Miller Drug Company. No. 157,341; Aug. 1.
Bluing. J. H. Brauer. No. 157,311; Aug. 1.
Brake linings. Thermoid Rubber Company. No. 157,394; Aug. 1.
Brushes. Wooster Brush Company. No. 157,405; Aug. 1.
Buckles, Belt. Baer & Wilde Co. No. 157,407; Aug. 1.
Calcium hypochlorite or containing same, Preparations consisting in. Chemische Fabrik Griesheim-Elektron. No. 157,314; Aug. 1.
Cards, Playing. United States Playing Card Company. No. 157,439; Aug. 1.
Cathartic for constipation. W. S. Powell. No. 157,374; Aug. 1.
Chemical composition. M. R. Rendell. No. 157,377; Aug. 1.
Chemicals, Certain. Sherwin-Williams Company. No. 157,387; Aug. 1.
Chemicals, medicines, and pharmaceutical preparations. B. Rottenberg. No. 157,381; Aug. 1.
Cigars, cigarettes, etc. J.-Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow. Nos. 157,378–80; Aug. 1.
Cleaner for ceramic materials, Chemical. Sinclair Mfg. Company. No. 157,388; Aug. 1.
Coal. Jefferson Coal Company. No. 157,422; Aug. 1.
Construction material. Eichelberger's Sons. No. 157,413; Aug. 1.
Cosmetics for promoting the growth of human hair. Aktiengesellschaft für Chemische Produkte vormals H. Scheidemandel. No. 157,299; Aug. 1.
Cotton piece goods. Pacific Mills. No. 157,428; Aug. 1.
Cotton piece goods. M. W. Ryan. No. 157,435; Aug. 1.
Cough drops. L. E. Cimicata. No. 157,318; Aug. 1.
Couplings, Flexible disks for universal. Merchant & Evans Company. No. 157,426; Aug. 1.
Cream, Cold. Pond's Extract Company. No. 157,431; Aug. 1.
Creams, Face. Louis Philippe, Inc. No. 157,429; Aug. 1.
Cyanides, Silver, zinc, and copper. Middlesex Aniline Company. No. 157,362; Aug. 1.
Dentifrices. Pepsodent Company. No. 157,371; Aug. 1.
Disinfectants. Glidden Company. No. 157,336; Aug. 1.
Electric plugs, caps, and receptacles. Harvey Hubbell Incorporated. No. 157,418; Aug. 1.
Electrical apparatus. Connecticut Telephone & Electric Company. No. 157,411; Aug. 1.
Embalming fluid. C. M. Morgan. No. 157,366; Aug. 1.
Face bleach, building astringent, powder used as a foot ease, rouge, etc. A. Thompson. No. 157,305; Aug. 1.
Games, Board. L. B. Beresford. No. 157,309; Aug. 1.
Gargle for sore throat. P. O. Nutt. No. 157,367; Aug. 1.
Germicides and antiseptics. Parke, Davis & Company. No. 157,369; Aug. 1.
Ginger ale. Peninsula Products Company. No. 157,370; Aug. 1.
Gold, silver, aluminum, composition, ribbon, white and color leaf-. F. W. Rauskolb Company. No. 157,433; Aug. 1.
Hair remover. Pan American Pharm. Co. No. 157,368; Aug. 1.
Hair tonic and shampoo. P. G. McCollum. No. 157,357; Aug. 1.
Hair tonics. G. W. Dunleavy. No. 157,325; Aug. 1.
Hammers, hatchets, axes, adzes, and sledges, Handled. Fayette R. Plumb, Incorporated. No. 157,373; Aug. 1.
Herb teas. Polonia Medicine Company. No. 157,430; Aug. 1.
Insecticide, Powder. W. C. Davey. No. 157,322; Aug. 1.
Iron oxide. Iron Oxide Products, Inc. No. 157,346; Aug. 1.
Leather and leather bends, sides, blocks, and strips Tanners Cut Sole Company. No. 157,393; Aug. 1.
Malt extract for food purposes. High Test Malt Extract Co. No. 157,417; Aug. 1.
Medical preparation. Kamp & Dutton. No. 157,424; Aug. 1.
Medicated bougies for human use. Produits Chimiques & Pharmaceutiques Meurice Societe Anonyme. No. 157,376; Aug. 1.
Medicinal and toilet preparation, Certain. J. B. Shenk. No. 157,386; Aug. 1.
Medicinal preparation. BiSoDol Co. No. 157,310; Aug. 1.
Medicinal preparation. C. G. Hambo. No. 157,340; Aug. 1.
Medicinal preparation. P. Metadier. No. 157,360; Aug. 1.
Medicinal preparations. Knee 4 Medicine Company. No. 157,352; Aug. 1.
Medicinal preparations. Mrs. M. Liersch. No. 157,355; Aug. 1.
Medicinal preparation, Certain. Dr. Peter Fahrney & Sons Co. Nos. 157,329–33; Aug. 1.
Medicinal preparation, Certain. A. A. Glassman. No. 157,335; Aug. 1.
Medicinal preparation used in treatment of hemorrhoids. Dr. A. C. Haines. No. 157,339; Aug. 1.
Medicinal preparations, Certain. A. O. McMichael. No. 157,302; Aug. 1.
Medicinal preparation, Certain. George H. Rundle Company. No. 157,383; Aug. 1.
Medicinal preparations, Certain. H. C. Storick. No. 157,391; Aug. 1.
Medicinal preparations, Certain. Sulpreme Chemical Co. No. 157,392; Aug. 1.
Medicinal preparations, Certain. United Retail Chemists Corporation. No. 157,397; Aug. 1.
Medicine for coughs, bronchitis, etc. Bay State Drug Co. No. 157,306; Aug. 1.
Medicine for kidney, liver, etc., troubles. F. A. Thompson & Company. No. 157,396; Aug. 1.
Medicine used as a treatment for lung and bronchial afflictions. Lloyd Drug Company. No. 157,356; Aug. 1.
Metal, Articles plated with precious. G. S. Ward. No. 157,440; Aug. 1.
Ointment, Croup. A. Middleton. No. 157,363; Aug. 1.
Paper and envelopes. George B. Hurd & Co. Nos. 157,419–21; Aug. 1.
Paper, Book. Bermingham & Prosser Company. No. 157,409; Aug. 1.
Paper, Toilet. Marshall Field & Company. No. 157,358; Aug. 1.
Paper, Writing. Inter-Collegiate Press. No. 157,345; Aug. 1.
Paper, Writing. Kalamazoo Paper Company. No. 157,423; Aug. 1.
Paper, writing pads, notebooks, etc., Legal and letter. J. Meyers Stationery & Printing Co. No. 157,361; Aug. 1.
Perfume extract and toilet water. Houbigant, Inc. No. 157,343; Aug. 1.
Perfume, toilet water, face lotion, rouge, etc. Cheramy, Incorporated. No. 157,316; Aug. 1.
Perfumes. R. Eyben. No. 157,328; Aug. 1.
Perfumes. Mijets Perfume Company. No. 157,365; Aug. 1.
Perfumery. L. Herrgott. No. 157,342; Aug. 1.
Perfumery. L. Herrgott. No. 157,350; Aug. 1.
Pharmaceutical preparation. Aktiengesellschaft für Chemische Produkte vormals H. Scheidemandel. No. 157,300; Aug. 1.
Pharmaceutical preparation. A. G. Suchywerke. No. 157,437; Aug. 1.
Pharmaceutical products especially for asthma. Dr. Kade's Medizinische-Pharmazeutisches Fabrikations- & Exportgeschaft Dr. Franz Lutze. No. 157,347; Aug. 1.
Pianos and player pianos. Price & Teeple Piano Company. No. 157,432; Aug. 1.
Pottery and casting plaster. United States Gypsum Company. No. 157,438; Aug. 1.
Powder, Face. E. Burnham, Inc. No. 157,312; Aug. 1.
Preparation for indigestion and stomach trouble. J. Wood. No. 157,404; Aug. 1.
Preparation for the relief of bronchial asthma, hay fever, colds, etc. J. B. Shaffer. No. 157,385; Aug. 1.
Preparation for the treatment of coughs, colds, grip, etc. Gilbert Bros. & Co. No. 157,334; Aug. 1.
Preparations for the treatment of diseases of the liver. Cholsanin A. G. No. 157,317; Aug. 1.
Preparation for the treatment of the scalp and growth of hair. J. Vajda. No. 157,398; Aug. 1.
Preparation for treatment of asthma. C. Leavengood. No. 157,354; Aug. 1.

Preparation for treatment of foot ailments. I. H. Katoff. No. 157,349; Aug. 1.
Pussies. Redlich Manufacturing Company. No. 157,434; Aug. 1.
Radiators. Preparation used to prevent the freezing of. Mimin Chemical Corporation. No. 157,364; Aug. 1.
Rubber preservative. Rubber Process Corporation. No. 157,382; Aug. 1.
Salt. Worcester Salt Co. No. 157,406; Aug. 1.
Salve, Healing. A. F. Carlin. No. 157,313; Aug. 1.
Shampoo for hair and scalp. W. Zimmerman. No. 157,443; Aug. 1.
Shampoo. Olive-oil. White-Dove Laboratories. No. 157,402; Aug. 1.
Shingles, Asphalt. Ford Roofing Products Co. No. 157,414; Aug. 1.
Soaps. Crofts & Reed Co. No. 157,412; Aug. 1.
Soldering flux, Fluid. American Chemical Paint Company. No. 157,301; Aug. 1.
Spray, Insecticide. Balfour Guthrie & Co. No. 157,305; Aug. 1.
Steel-hardening solutions. W. A. Beckwith. No. 157,308; Aug. 1.
Stokers. James A. Brady Foundry Company. No. 157,410; Aug. 1.
Sugar for beer coloring and flavoring, Body. Klatscher & Lorenz, Inc. No. 157,351; Aug. 1.
Table, bed, and toilet articles for children's dolls, Miniature. E. E. Willson. No. 157,403; Aug. 1.
Tablets, Laxative. J. M. Kappus. No. 157,348; Aug. 1.
Talking-machine needles. S. Bennis. No. 157,408; Aug. 1.
Toilet preparation for the hair and scalp, Medicated. Conner and Walters Company. No. 157,319; Aug 1.
Toilet preparations. Imperial Perfume Co. No. 157,344; Aug. 1.
Toilet preparations. Perfection Laboratories. No. 157,372; Aug. 1.
Toilet preparations. E. Powers. No. 157,375; Aug. 1.
Toilet preparations. Madame C. J. Walker, Inc. No. 157,401; Aug. 1.
Toilet preparations, Certain. Affinity Company. No. 157,298; Aug. 1.
Toilet preparations, Certain. De Pree Chemical Company. No. 157,324; Aug. 1.
Tonic. J. De Lange. No. 157,323; Aug. 1.
Tonic, General. E. H. Cunningham. No. 157,321; Aug. 1.
Tooth paste. Sears, Roebuck and Co. No. 157,384; Aug. 1.
Toy blocks. J. Srofe. No. 157,389; Aug. 1.
Toy gunboat on wheels, Wooden. W. C. Stanke. No. 157,390; Aug. 1.
Veterinary preparations, Certain. W. G. Asquith. No. 157,303; Aug. 1.
Washing machines, wringers, and mangles, Clothes. John Dunn, Son & Co. No. 157,326; Aug. 1.
Welding and cutting apparatus. Weld It Acetylene Company. No. 157,441; Aug. 1.
Worsted piece goods. Atlantic Mills, Inc. No. 157,304; Aug. 1.

ALPHABETICAL LIST OF LABELS.

"Barnum's Sweet Made." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,801; Aug. 1.
"Bed Rock." (For Coffee.) The Louisville Coffee Company. No. 24,797; Aug. 1.
"Benton's Com-Aid." (For Composition of Matter for Use on the Hair.) L. L. Benton. No. 24,774; Aug. 1.
"Bradleystat." (For Radio Appliances.) Allen-Bradley Company. No. 24,771; Aug. 1.
"Cap-A-Ha." (For Cigars.) Capaha Cigar Co. No. 24,775; Aug. 1.
"Crown." (For Root Beer.) Crown Brewing Company. No. 24,778; Aug. 1.
"Daffodil." (For Butter.) Aberdeen Creamery Company. No. 24,770; Aug. 1.
"Davis." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,800; Aug. 1.
"Deerwood." (For Sweet Corn.) The Copps Co. No. 24,777; Aug. 1.
"Del-Riches Brand Green Cut Stringless Beans." (For Cans Containing Stringless Beans.) The Townsend Co. No. 24,816; Aug. 1.
"Dexter's Milk Brand." (For Bread.) Dexter Baking Company. No. 24,779; Aug. 1.
"Dexter's Table Queen Bread." (For Bread.) The Dexter Baking Company. No. 24,780; Aug. 1.
"Enameline." (For Paper.) The Peerless Paper Co. No. 24,807; Aug. 1.
"Eveready Unit Cell." (For Electric Batteries.) National Carbon Company Inc. No. 24,802; Aug. 1.
"Falconette." (For Packages and Boxes Containing Hair Nets.) Falcon Products, Incorporated. No. 24,784; Aug. 1.
"Goody-Mints Candy." (For Candy.) G. L. Rassias. No. 24,809; Aug. 1.
"Hardware." (For Clothing.) T. Kotzin. No. 24,792; Aug. 1.
"Hemco Twin-Lite." (For Plugs or Receptacles for Electric Lamps.) George Richards & Company. No. 24,811; Aug. 1.
"Hills Bros. Coffee." (For Coffee.) Hills Bros. No. 24,787; Aug. 1.
"Honey Bunch." (For Grapefruit.) F. L. Owen. No. 24,806; Aug. 1.
"Jell-Well." (For a Raspberry Mixture.) The Miles Manufacturing Co. Inc. No. 24,802; Aug. 1.
"Love Nest." (For Candy.) The Euclid Candy Co. No. 24,783; Aug. 1.
"Lozenges No. 12 Iothesin." (For Packages Containing a Medicinal Preparation.) The Drug Products Co. Inc. No. 24,781; Aug. 1.
"Lucky Seller 'I Love You California'." (For Rhubarb.) A. Levy & J. Zentner. No. 24,795; Aug. 1.
"Maid-Well." (For Superior White Paste.) C. C. Hatcher. No. 24,786; Aug. 1.
"New Ideal." (For Cigars.) B. Lockett. No. 24,796; Aug. 1.
"Numaid." (For Hosiery.) Mammoth Hosiery Mills. No. 24,798; Aug. 1.
"Old Taylor." (For Cantaloupes.) The J. L. Taylor Co. No. 24,815; Aug. 1.
"Photoplan Paper." (For Label for Said Paper.) Williams, Brown & Earle, Inc. No. 24,819; Aug. 1.
"Po-Ree-Ko." (For Receptacles Containing Cosmetibles, Including Prepared Grapefruit.) H. L. Sherman. No. 24,812; Aug. 1.
"Portola." (For Sardines.) K. Hoveden Co. Nos. 24,788–90; Aug. 1.
"Principally from Sage Blossoms." (For Honey.) W. P. Southworth. No. 24,813; Aug. 1.
"Pulvoids No. 386 Iosote." (For Packages Containing a Medicinal Preparation.) The Drug Products Co. Inc. No. 24,782; Aug. 1.
"Real Silk Hose." (For Containers for Hose.) Real Silk Hosiery Mills. No. 24,810; Aug. 1.
"Red Head." (For Apples.) Northern Fruit Company. No. 24,805; Aug. 1.
"Red Triangle." (For Noodles.) David F. Jue & Co. No. 24,791; Aug. 1.
"Soak-In." (For Containers Containing Liniment.) A. J. Krank. Nos. 24,793–4; Aug. 1.
"Sun Shine Mist." (For a Composition for Cleaning and Polishing Furniture, Floors, Linoleum, and Other Surfaces.) J. W. Hamilton. No. 24,785; Aug. 1.
"Superior." (For Macaroni.) The Pfaffmann Egg Noodle Company. No. 24,808; Aug. 1.
"Super Quality." (For Piston Pins.) Automotive Products Corporation. No. 24,772; Aug. 1.
"Stage Hosiery." (For Hosiery.) M. Baum. No. 24,773; Aug. 1.
"Sweetness in Every Box." (For Candy.) Meier & Frank Co. No. 24,799; Aug. 1.
"SV." (For Apples.) Spokane Valley Growers Union. No. 24,814; Aug. 1.
"Unmask Your Beauty." (For Cosmetic Lotions for Beautifying the Skin and Eradicating Blemishes Thereof.) T. J. Newlyn. No. 24,804; Aug. 1.
"U-Tell-'Em' It's Tas Tells." (For Ice Cream.) City Dairy and Ice Cream Co. No. 24,776; Aug. 1.
"Vegex Almonds." (For Vitamine Food Preparation.) Vitamin Food Co. Inc. No. 24,818; Aug. 1.
"Vitaminized Fruit Wafers." (For Vitamine Food Preparation.) Vitamin Food Co. Inc. No. 24,817; Aug. 1.

ALPHABETICAL LIST OF PRINTS.

"A reflection of good coffee." (For Advertising Purposes for Coffee.) Hills Bros. No. 6,240; Aug. 1.
"Certificate Of Purchase." (For Advertising Purposes for Freckle Cream.) Sunny Susan Laboratories, Inc. No. 6,249; Aug. 1.
"Coffee Talks." (For Advertising Purposes for Coffee.) Hill Bros. No. 6,239; Aug. 1.
"Dr. Paul Wetzel's Elastic Arch-Gripper." (For Advertising Purposes for a Circular Elastic Arch-Gripper.) P. Wetzel. No. 6,251; Aug. 1.
"Duck Clothing." (For Advertising Purposes for White Duck Clothing.) The James E. Richards Company. No. 6,247; Aug. 1.
"First—last— and always." (For Advertising Purposes for Coffee.) Hills Bros. No. 6,241; Aug. 1.
"Greene Line Big Five Taps." (For Advertising Purposes for Sole Leather.) Mt. Union Tanning-Extract Co. No. 6,244; Aug. 1.
"Mallo Milk Bar." (For Advertising Purposes for a Chocolate-Covered Almond and Nougat Bar.) Milwaukee Paper Box Company. No. 6,243; Aug. 1.
"Piccadilly Ink." (For Advertising Purposes for Said Ink.) Piccadilly Ink Company. No. 6,246; Aug. 1.
"Quality Counts." (For Advertising Purposes for Coffee.) Hills Brothers. No. 6,238; Aug. 1.
"Simon's Pocket-Jerkin." (For Advertising Purposes for Our Leather Woolen-Cloth-Lined Vests with Pockets.) The Simon Coat Co. No. 6,248; Aug. 1.
"Spearmint The New Tooth Paste for Children—and for Grown-ups too." (For Advertising Purposes for Tooth Paste.) Wrigley Pharmaceutical Co. No. 6,252; Aug. 1.
"Sunny Susan Freckle Cream." (For Advertising Purposes for Freckle Cream.) Sunny Susan Laboratories. No. 6,250; Aug. 1.
"The Write Gift." (For Advertising Purposes for Writing Paper.) J. M. Cecil. No. 6,236; Aug. 1.
"U-Tell-'Em' Its Tas Tells." (For Advertising Purposes for Ice Cream.) City Dairy and Ice Cream Co. No. 6,237; Aug. 1.
"What is the matter with your Hair?" (For Advertising Purposes for Shampoo.) The Palmolive Company. No. 6,245; Aug. 1.
"Yum Yum." (For Advertising Purposes for a Candy Specialty.) Milwaukee Paper Box Company. No. 6,242; Aug. 1.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aircraft. International All-Steel Aircraft Syndicate, Ltd. No. 142,845; Aug. 1.
Alloys. Ludlum Steel Company. No. 133,264; Aug. 1.
Amusement device. Paramount Amusement Device Corp. No. 162,195; Aug. 1.
Antiseptic, Membrane. W. W. Wimberg. No. 145,381; Aug. 1.
Apples. Coveland Orchards. No. 127,256; Aug. 1.
Bale ties, Tools for applying. Signode System, Inc. No. 158,544; Aug. 1.
Beverages, Maltless carbonated. Anaheim Bottling Works. No. 164,479; Aug. 1.
Beverages sold as soft drinks. Hatfield & Bell. No. 164,313; Aug. 1.
Binders, Loose-leaf. U-File-M Binder Mfg. Company. No. 152,904; Aug. 1.
Blues for laundry purposes, Aniline. H. Kohnstamm & Co. No. 161,488; Aug. 1.
Boots and shoes. Selby Shoe Co. No. 160,304; Aug. 1.
Boots and shoes, Women's. Roth Shoe Manufacturing Company. No. 157,161½; Aug. 1.
Boxes, Materials for strapping. Signode System, Inc. No. 156,023; Aug. 1.
Bread. Ward Baking Company. No. 156,124; Aug. 1.
Buttons, Horn. Kenilworth Mfg. Co. No. 161,134; Aug. 1.
Candy. W. I. Booth. No. 159,406; Aug. 1.
Candy. Collins-Hencke Candy Co. No. 154,121; Aug. 1.
Candy. Gimbal Brothers. No. 155,343; Aug. 1.
Candy. Grace Darling Candy Shop, Inc. No. 157,713; Aug. 1.
Candy. D. L. Page, Inc. No. 157,900; Aug. 1.
Candy. Palmer Candy Co. No. 154,418; Aug. 1.
Candy. Quaker City Chocolate & Confectionery Company. No. 146,927; Aug. 1.
Candy and candied confections, Chocolate. Aunt Molly's Kitchen. No. 155,470; Aug. 1.
Candy and chocolate. United Cigar Stores Company of America. No. 154,772; Aug. 1.
Canned oysters. C. B. Foster Packing Co. No. 146,004; Aug. 1.
Canned shrimp. C. B. Foster Packing Co. No. 146,005; Aug. 1.
Cantaloupes, Fresh. Scotland Co-Operative Cantaloupe Exchange. No. 157,639; Aug. 1.
Caps and hoods. Samuel Ach Co., Inc. No. 157,546; Aug. 1.
Caps, Children's. United Hat & Cap Co. No. 158,955; Aug. 1.
Carbon black. Thermatomic Carbon Co. No. 161,017; Aug. 1.
Cards, invitations, and valentines, labels, menus, etc., Christmas, birthday, etc. Davis-Smith Company. No. 160,796; Aug. 1.
Cash registers and parts thereof. Remington Arms Company. Nos. 148,555–6; Aug. 1.
Cheese sticks. B. M. Spencer. No. 153,476; Aug. 1.
Chocolate in cake form, chocolate candies, and sweet chocolate. Bishop & Company. No. 138,749; Aug. 1.
Chocolates. Lipman Wolfe & Co. Nos. 153,313–14; Aug. 1.
Chocolates, Boxes of assorted. Allegretti Chocolate Cream Co. No. 155,469; Aug. 1.
Citrate of magnesia. Sterling Magnesia Company. No. 143,462; Aug. 1.
Cloths known as piece goods. H. V. T. Schill Co. No. 165,166; Aug. 1.
Coats and suits, Ladies' and misses'. G. B. G. Mfg. Co. Inc. No. 152,467; Aug. 1.
Coats, suits, underwear, hosiery, etc. Guthrie & Co. Limited. No. 154,309; Aug. 1.
Coffee. Abraham & Straus, Inc. No. 157,470; Aug. 1.
Coffee. New Orleans Coffee Company. No. 137,957; Aug. 1.
Cold cream, lip sticks, eyebrow pencils, bath lotions, etc. Daniels & Fisher Stores Company. No. 157,359; Aug. 1.
Compound for treatment of the mucous membrane. Maignen Chemical Company. No. 159,713; Aug. 1.
Confections, Coated frozen. H. P. Hood & Sons, Inc. No. 159,361; Aug. 1.
Corsets. Quality Corset Company. No. 152,035; Aug. 1.
Corsets. Strouse, Adler & Co. No. 159,388; Aug. 1.
Cots, tables, and chairs, Folding. J. H. Richards. No. 147,990; Aug. 1.
Cotton piece goods. J. W. Goddard & Sons, Inc. No. 160,186; Aug. 1.
Cotton textiles, Woven. James E. Richards Company. No. 165,306; Aug. 1.
Dates. Richards & Co. (London) Limited. No. 144,297; Aug. 1.
Disinfectants, deodorants, and insecticides. Mirrolike Mfg. Co. No. 162,132; Aug. 1.
Drawers-supporting waists, Children's. Triple P. Manufacturing Corporation. No. 158,840; Aug. 1.
Dust cloths, Treated. W. H. Valiant. No. 151,966; Aug. 1.
Dyestuffs. Southern Dyestuffs Company. No. 160,907; Aug. 1.
Electrical circuit and apparatus testing cabinets, current meters, etc. Western Electric Company. No. 158,067; Aug. 1.
Engines and parts thereof, Valves for gas. Steel Products Manufacturing Company. No. 157,779; Aug. 1.
Farriers, blacksmiths', and cobblers' tools, etc. Champion Tool Company. No. 152,419; Aug. 1.
Film, Sensitized. Eastman Kodak Company. No. 152,122; Aug. 1.
Fishing lines, Enameled Japan-silk. Cortland Line Co. No. 164,376; Aug. 1.
Fishing lines, Hard braided waterproof silk. Cortland Line Co. No. 164,382; Aug. 1.
Flavoring extracts, spices, tea and cocoa, Food. Ho-Ro-Co Manufacturing Company. No. 159,315; Aug. 1.
Floor clips for fastening wooden floors or the like to a concrete construction. Bull Dog Floor Clip, Company. No. 160,480; Aug. 1.
Flour, Wheat. J. B. Camors & Company. No. 155,160; Aug. 1.
Flour, Wheat. Commander Mill Company. No. 154,482; Aug. 1.
Flour, Wheat. Great Western Milling Company. No. 155,259; Aug. 1.
Garments for Men, young men and boys, Outer. Wosniak & Company. No. 151,802; Aug. 1.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Gelatin, Prepared. Minute Tapioca Company. No. 153,766; Aug. 1.
Gloves, Fabric. J. R. Walrath. No. 158,490; Aug. 1.
Grapes, Fresh. J. Bruno. No. 157,909; Aug. 1.
Hair grower and hair tonic. M. P. Smith. No. 159,726; Aug. 1.
Hair nets. C. V. Cheesman, jr. No. 161,481; Aug. 1.
Hair nets. Paristyle Novelty Co. No. 160,253; Aug. 1.
Hair nets. Thomas & Buswell Inc. No. 163,015; Aug. 1.
Hair pomades. P. L. Diver. No. 160,798; Aug. 1.
Hairpins. Newey Bros. Ltd. No. 148,750; Aug. 1.
Handkerchiefs. H. Engel & Sons. No. 165,127; Aug. 1.
Handkerchiefs. H. Engel & Sons. Nos. 165,129–30; Aug. 1.
Hose supporters. W. L. Deming. No. 155,489; Aug. 1.
Hosiery. J. H. Blaetz. Nos. 158,215–16; Aug. 1.
Hosiery. Brown-Phelps Hosiery Company. No. 159,076; Aug. 1.
Hosiery. United Hosiery Company. No. 143,846; Aug. 1.
Ice cream. Reid Ice Cream Company. No. 159,179; Aug. 1.
Ice-cream chocolate confections. G. T. Haines. No. 159,090; Aug. 1.
Ice cream, flavored ice, ice-cream bricks, ice-cream cones, ice-cream sandwiches. Marchiony Brothers, Inc. No. 157,377; Aug. 1.
Incense, Aromatic. Louis Lucas Company. No. 161,487; Aug. 1.
Insecticide. W. A. Schull. No. 157,851; Aug. 1.
Insecticides, fungicides, disinfectants, cattle spray, etc. Acme White Lead & Color Works. No. 160,914; Aug. 1.
Jute bagging. Ludlow Manufacturing Associates. Nos. 165,296–7; Aug. 1.
Kitchen utensils, Aluminum. Kewaskum Aluminum Company. No. 131,026; Aug. 1.
Knit underwear and sweaters. J. & M. Wolf, Inc. No. 156,508; Aug. 1.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. No. 163,253; Aug. 1.
Knitted silk fabrics. Banner Silk Knitting Mills, Inc. No. 163,255; Aug. 1.
Knitted underwear and hosiery. Lauerman Brothers Company. No. 147,435; Aug. 1.
Laxative candy. B. F. Michael. No. 161,369; Aug. 1.
Lotion or cream for the skin. J. Kostitch. No. 157,999; Aug. 1.
Magazines, Weekly. Westinghouse Electric & Manufacturing Company. No. 163,422; Aug. 1.
Malt and hops compound. R. Francione. No. 163,331; Aug. 1.
Malt-extract sirups for food purposes. Schreiber Products Corporation. No. 146,502; Aug. 1.
Malt extracts and sirups. V. Neustadtl. No. 161,939; Aug. 1.
Marking machines. Markem Machine Co. No. 157,676; Aug. 1.
Medicinal preparation. Mall Dunn Medicine Company. No. 160,293; Aug. 1.
Medicinal preparations for the bladder and gall. E. Bilhuber, Incorporated. No. 161,525; Aug. 1.
Medicine, Laxative. Dr. Miles Grand Dispensary. No. 162,033; Aug. 1.
Medicines for the treatment of colds, coughs, and la grippe. Linden Pharmacal Company. No. 156,194; Aug. 1.
Metal kitchen and toilet goods and hardware. Wickwire Spencer Steel Corporation. No. 141,820; Aug. 1.
Metal plates and sheets, Ferrous. Follansbee Brothers Company. No. 161,827; Aug. 1.
Molasses. Boston Molasses Company. No. 158,214; Aug. 1.
Mops. W. C. Palmer. Nos. 166,014–16; Aug. 1.
Mouth wash, hair tonic, and face powder. Antiseptic. I. A. Miller. No. 161,562; Aug. 1.
Needles, Hand sewing. Julius Berbecker & Sons, Inc. No. 161,167; Aug. 1.
Oil content of such emulsions. Chemicals used in the treatment of petroleum emulsions to effect the recovery of the valuable. W. S. Barnickel & Co. No. 161,407; Aug. 1.
Oils, tonic laxative, laxative salts, etc., Laxative. Frederick Stearns & Co. No. 145,677; Aug. 1.
Oranges and grapefruit. Polk County Packing Company. No. 145,968; Aug. 1.
Oranges, grapefruit, and pineapples, jams, marmalade, and jellies. Porto Rico Fruit Exchange. No. 131,536; Aug. 1.
Organs, House. Stevens & Wallis, Incorporated. No. 157,538; Aug. 1.
Overalls, shirts, and pants. Lurie Manufacturing Co. No. 152,078; Aug. 1.
Paper used in the making of cigarettes, Treated. J. Sonnenschein Hop Company. No. 163,291; Aug. 1.
Paper, Water-finish fiber. Bayless Manufacturing Corporation. No. 163,133; Aug. 1.
Perfume, Breath. F. W. Brooke. No. 159,682; Aug. 1.
Perfumes, toilet waters, face powders, sachet, cold cream, etc. Cheramy, Inc. No. 161,618; Aug. 1.
Periodical, Semimonthly. Kansas Live Stock Association. No. 159,519½; Aug. 1.
Pharmaceutical preparations. Bo-Peep Corporation. No. 160,690; Aug. 1.
Photographic developers. Toch Brothers. No. 161,810; Aug. 1.
Photographic printing paper. Leto Photo Materials Co. (1905) Ltd. No. 162,305; Aug. 1.
Piano-playing apparatus, Mechanical. C. C. and E. E. Conway and T. P. Brown. No. 126,673; Aug. 1.
Picture films, Moving. Cartoonigrams, Inc. No. 152,316; Aug. 8.
Pillowcases and bed wear. Lunepp Lace & Embroidery Co. No. 163,994; Aug. 1.
Pipes, Smoking. J. K. Kahookano. No. 162,258; Aug. 1.
Pistons and wrist pins. Automotive Products Corporation. No. 158,551; Aug. 1.
Plumbing fixtures, Porcelain trimmings for. Mitchell-Bissell Company. No. 158,240; Aug. 1.
Pop corn, Candied. C. T. Glasser. No. 137,371; Aug. 1.
Potatoes, Fresh. Gainesville Potato Growers Co-Operative Association, Inc. No. 158,770; Aug. 1.
Powder puffs. S. Glemby's Sons Co. No. 164,425; Aug. 1.
Powder puffs. A. Q. Hodgson. No. 165,135; Aug. 1.
Preparation for preventing perspiration and removing the odor thereof. B. & P. Company. No. 159,691; Aug. 1.
Preparation for the prevention and treatment of pyorrhea, tonsillitis, etc. General Dental Company. No. 158,978; Aug. 1.
Preparation for treatment of goiters. W. H. Arbour. No. 140,705; Aug. 1.
Product used for the treatment of skin disease. Mallinckrodt Chemical Works. No. 160,822; Aug. 1.
Publication, issued weekly, Trade. Caradine Harvest Hat Company. No. 162,243; Aug. 1.
Pumping machinery, pumps, air-lift pumps, hydraulic machinery, water turbines, etc. Worthington Pump and Machinery Corporation. No. 149,608; Aug. 1.
Pumps, Self measuring and dispensing. Julian Pump & Manufacturing Company. No. 156,634; Aug. 1.
Pyjamas. Knothe Brothers Co. No. 155,622; Aug. 1.
Remedy for dyspepsia. Jacques Wolf & Co. Nos. 161,605–6; Aug. 1.
Remedy for piles. J. W. Soule. No. 162,069; Aug. 1.
Rennet extract, powder, and tablets and junket tablets. Alpha-Lux Company. No. 155,730; Aug. 1.
Ribbon, Velvet. Ernest & Herman Levy, Inc. No. 161,732; Aug. 1.
Rubber heels. Lynch Heel Company. No. 161,491; Aug. 1.
Safes, vault doors, locks, etc., Filing, skeleton, and fireproof. Diebold Safe and Lock Company. No. 162,162; Aug. 1.
Salve for the treatment of rheumatism. W. Haefeli. No. 150,861; Aug. 1.
Scouring cloths. Chore Utensils Corporation of America. No. 162,378; Aug. 1.
Shampoo, Liquid. W. W. Wimberg. No. 145,380; Aug. 1.
Sheet metal, Ferrous and nonferrous. N. & G. Taylor Co. No. 161,155; Aug. 1.
Sheet metals. American Nickeloid Company. No. 161,402; Aug. 1.
Shields or pads for corns, etc., Adhesive medicated. Scholl Manufacturing Company. No. 159,060; Aug. 1.
Shirts, Men's. David Lieberman & Co. No. 158,383; Aug. 1.
Shirts, overalls, overcoats, and suits. Outing or work. Cookeville Overall Mfg. Co. No. 151,755; Aug. 1.
Shirts, pyjamas, collars, cuffs, etc., Dress, negligee, and work. Goldsmith & Lerner. No. 124,438; Aug. 1.
Shirts, Work. Feldman & Weinman. Nos. 157,606–7; Aug. 1.
Shoes. H. W. Merriam Shoe Company. No. 160,892; Aug. 1.
Shoes, Leather. Little Giant Shoe Co. No. 159,712; Aug. 1.
Silk fabrics in the piece, Artificial. Melson, Clifford & Co. Limited. No. 159,877; Aug. 1.
Silk goods in the piece. J. A. Migel, Inc. No. 159,805; Aug. 1.
Silk piece goods. Duplan Silk Corporation. No. 165,486; Aug. 1.
Silk piece goods. Empire Silk Company. No. 165,441; Aug. 1.
Silk piece goods. T. J. Mitchell & Co. No. 165,149; Aug. 1.
Sirup for food purposes, Bakers' malt. W. Rupp. No. 158,194; Aug. 1.
Snap fasteners. United States Fastener Company. No. 162,700; Aug. 1.
Soap. Cudahy Packing Company. No. 152,912; Aug. 1.
Soap. United Fruit Company. No. 163,241; Aug. 1.
Soap. United Fruit Company. No. 163,244; Aug. 1.
Soap. United Fruit Company. No. 163,246; Aug. 1.
Soaps, Toilet. Crofts & Reed Co. No. 160,112; Aug. 1.
Stay bolts, track, frog, and switch bolts and nuts, etc., Boiler. Flannery Bolt Company. No. 148,437; Aug. 1.
Stoneware, Glazed. Pacific Clay Products Co. No. 165,713; Aug. 1.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Storage batteries, Liquid charge for. Lyvewyre Company. No. 159,602; Aug. 1.
Suits for males, Outer. Driesen, Meyer & Oronsky. No. 157,559; Aug. 1.
Tablecloths, woolen and cotton blankets, Cotton. Fuld Brothers. No. 165,132; Aug. 1.
Tapioca and tapioca puddings, Prepared. Minute Tapioca Company. No. 153,765; Aug. 1.
Teeth, Cleansing preparation for the. Cell-U-Base Corporation. No. 148,645; Aug. 1.
Ticking. New & Frank Company. No. 165,150; Aug. 1.
Tobacco humidifiers. Humidisk Company. No. 165,550; Aug. 1.
Tonic for scalp and hair. M. Shaffer Company. No. 161,206; Aug. 1.
Tonic in tablet form, General. Barr-Nunn Company. No. 159,690; Aug. 1.
Tonic, Stomach, bowel, and liver. P. L. Bousquet. No. 159,689; Aug. 1.
Towels, Bath. N. Kershaw. No. 165,084; Aug. 1.
Trimmings, Woven and braided. Narrow Fabric Co. No. 160,502; Aug. 1.
Tubing, Metallic. Forbes Tubular Products Corporation. No. 157,363; Aug. 1.
Typewriter cloth used for making typewriter ribbons and multigraph ribbons. Rose & Frank Co. No. 162,575; Aug. 1.
Typewriter ribbons, Cloth for making. Rose & Frank Co. Nos. 162,571–4; Aug. 1.
Umbrellas and parasols. Siegel, Rothschild & Co. No. 165,643; Aug. 1.
Undershirts, drawers, and union suits. Troy Underwear Co. No. 158,806; Aug. 1.
Underwear of woven and knitted fabrics. B. V. D. Company. No. 157,824; Aug. 1.
Underwear, Ladies'. Ivy Corset Company. No. 158,928; Aug. 1.
Webbing, Jute. Ludlow Manufacturing Associates. No. 165,148; Aug. 1.
Wire overall loops. American Buckle Company. No. 159,398; Aug. 1.
Woolen fabrics. J. A. Bolton. No. 160,108; Aug. 1.
Woolen piece goods. D. S. Mackay & Co. No. 165,199; Aug. 1.
Worsted piece goods. Atlantic Mills. No. 165,471; Aug. 1.
Yeast compound for use as a general tonic. J. Herstein. No. 159,026; Aug. 1.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 1, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

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135: 1,424,563
120— 57: 1,424,216
121— 10: 1,424,188
17: 1,424,156
122— 161: 1,424,322
504. 1: 1,424,313
123— 25: 1,424,160
55: 1,424,428
56: 1,424,705
75: 1,424,585
90: 1,424,205
122: 1,424,394
1,424,430
148: 1,424,185
169: 1,424,526
1,424,591
1,424,700
171: 1,424,234
173: 1,424,226
174: 1,424,664
178: 1,424,427
180: 1,424,320
124— 15: 1,424,632
19: 1,424,432
125— 28: 1,424,719
126— 1: 1,424,660
137: 1,424,584
230: 1,424,460
243: 1,424,508
272: 1,424,500
129— 13: 1,424,622
131— 12: 1,424,408
51: 1,424,348
132— 33: 1,424,230
1,424,546
46: 1,424,654
69: 1,424,666
78. 5: 1,424,649
79: 1,424,571
133— 4: 1,424,439
134— 18: 1,424,306
59: 1,424,635
60: 1,424,414
1,424,729
137— 20: 1,424,522
139: 1,424,636
140: 1,424,270
138— 9: 1,424,233
140— 7: 1,424,379
87: 1,424,473
143— 43: 1,424,503
163: 1,424,415
144— 2: 1,424,498
145— 27: 1,424,506
29: 1,424,161
34: 1,424,378
50: 1,424,275
52: 1,424,703
53: 1,424,456
66: 1,424,600
1,424,675
146— 3: 1,424,436
6: 1,424,474
12: 1,424,380
150— 1. 5: 1,424,317
2: 1,424,670
30: 1,424,152
151— 29: 1,424,277
152— 8: 1,424,231
1,424,468
9: 1,424,367
13: 1,424,162
16: 1,424,524
22: 1,424,360
38: 1,424,223
153— 2: 1,424,465
46: 1,424,366
54: 1,424,180
154— 17: 1,424,191
155— 68: 1,424,302
128: 1,424,380
135: 1,424,704
181: 1,424,744
156— 14: 1,424,431
19: 1,424,324
1,424,337
1,424,444
29: 1,424,572
157— 1: 1,424,680
158— 27. 4: 1,424,163
1,424,189
1,424,355
36: 1,424,369
1,424,486
1,424,715
87: 1,424,149
116: 1,424,739
164— 43: 1,424,175
61: 1,424,309
68: 1,424,472
170— 170: 1,424,672
171— 209: 1,424,201
314: 1,424,731
324: 1,424,326
172— 36: 1,424,164
239: 1,424,702
274: 1,424,300
173— 259: 1,424,219
175— 337: 1,424,346
356: 1,424,250
364: 1,424,256
179— 27: 1,424,644
81: 1,424,368
172: 1,424,726
180— 19: 1,424,297
54: 1,424,177
1,424,224
60: 1,424,192
90: 1,424,691
184— 6: 1,424,362
45: 1,424,557
187— 67: 1,424,665
97: 1,424,186
188— 3: 1,424,273
31: 1,424,205
191— 60. 2: 1,424,717
60. 5: 1,424,716
192— 13: 1,424,693
1,424,694
28: 1,424,165
67: 1,424,501
193— 29: 1,424,279
195— 13: 1,424,173
196— 26: 1,424,574
197— 186: 1,424,409
198— 106: 1,424,258
140: 1,424,249
200— 5: 1,424,402
6: 1,424,720
43: 1,424,599
45: 1,424,208
46: 1,424,328
50: 1,424,407
1,424,578
1,424,579
70: 1,424,204
128: 1,424,714
162: 1,424,206
6: 1,424,248
203— 46: 1,424,356
206— 33: 1,424,497
1,424,684
42: 1,424,204
45: 1,424,598
103: 1,424,695
210— 169: 1,424,197
211— 7: 1,424,682
8: 1,424,180
14: 1,424,564
16: 1,424,333
20: 1,424,587
29: 1,424,517
214— 1: 1,424,737
52: 1,424,510
64: 1,424,479
131: 1,424,158
215— 7: 1,424,558
12: 1,424,667
79: 1,424,187
101: 1,424,740
217— 36: 1,424,218
60: 1,424,373
1,424,550
91: 1,424,661
219— 34: 1,424,567
37: 1,424,290
38: 1,424,340
48: 1,424,637
55: 1,424,515
220— 4: 1,424,723
9: 1,424,604
32: 1,424,519
1,424,520
39: 1,424,559
43: 1,424,159
221— 60: 1,424,243
78: 1,424,504
79: 1,424,547
80: R. 15,425
224— 29: 1,424,601
48: 1,424,630
229— 11: 1,424,471
230— 6: 1,424,312
11: 1,424,391
235— 70: 1,424,344
113: 1,424,518
120: 1,424,194
129: 1,424,183
236— 62: 1,424,663
238— 142: 1,424,657
240— 1: 1,424,463
1,424,464
2: 1,424,352
7: 1,424,687
38: 1,424,293
41: 1,424,561
44: 1,424,525
74: 1,424,351
241— 12: 1,424,329
242— 70: 1,424,661
244— 5: 1,424,491
14: 1,424,653
246— 78: 1,424,217
174: 1,424,509
187: 1,424,645
190: 1,424,420
351: 1,424,198
428: 1,424,656
247— 31: 1,424,442
37: 1,424,658
70: 1,424,735
248— 30: 1,424,611
41: 1,424,271
42: 1,424,573

248—	63:	1,424,434	254—	111:	1,424,390	265—	45:	1,424,730	280—	47:	1,424,345	292—	256:	1,424,282	300—	5:	1,424,545
250—	17:	1,424,204		192:	1,424,503		69:	1,424,354		53:	1,424,741		342:	1,424,292	301—	5:	1,424,252
	33:	1,424,365	255—	74:	1,424,662	267—	64:	1,424,721		56:	1,424,526	293—	5:	1,424,590		9:	1,424,211
251—	6:	1,424,262	257—	125:	1,424,455	268—	10:	1,424,410		106:	1,424,685		55:	1,424,359			1,424,480
	123:	1,424,624		229:	1,424,689	270—	39:	1,424,709	283—	47:	1,424,718			1,424,395		11:	1,424,476
	156:	1,424,251		247:	1,424,254	271—	53:	1,424,280	285—	24:	1,424,582			1,424,400		22:	1,424,576
		1,424,562	258—	23:	1,424,529	274—	2:	1,424,681	286—	1:	1,424,655			1,424,699		30:	1,424,314
	157:	1,424,305	259—	39:	1,424,575	278—	112:	1,424,255	287—	93:	1,424,425	294—	90:	1,424,548		44:	1,424,616
253—	56:	1,424,167		56:	1,424,423	279—	16:	1,424,535	289—	1:	1,424,276	296—	81:	1,424,215		56:	1,424,554
	66:	1,424,263	260—	125:	1,424,236		73:	1,424,335	290—	35:	1,424,404		96:	1,424,421		75:	1,424,530
	77:	1,424,242	264—	21:	1,424,384		80:	1,424,743	291—	19:	1,424,412		145:	1,424,511	303—	13:	1,424,325
254—	4:	1,424,438	265—	24:	1,424,357		112:	1,424,597	292—	87:	1,424,673	298—	22:	1,424,424		32:	1,424,303
	98:	1,424,748		27:	1,424,239	280—	33.1:	1,424,486		94:	1,424,650			1,424,425	305—	10:	1,424,493
	111:	1,424,147		44:	1,424,403		33.10:	1,424,631		206:	1,424,168			1,424,426	306—	30:	1,424,341

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF AUGUST, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abe, Seikichi, Los Angeles, Calif. Sleeve holder. No. 1,425,434; Aug. 8.

Abbott, Adrian O., jr., Detroit, Mich., assignor to Morgan & Wright. Mold-opening device. No. 1,424,791; Aug. 8.

Abbott, Franklin E., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Tie plate. No. 1,425,309; Aug. 8.

Abbott, Franklin E., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Tie plate. No. 1,425,310; Aug. 8.

Ackerberg, Carl, assignor to Challoner Company, Oshkosh, Wis. Means for securing anti-skid chains to vehicle wheels. No. 1,424,971; Aug. 8.

Ackerman, Clemens W., Chicago, Ill., assignor to Frog Switch and Manufacturing Company, Carlisle, Pa. Rock crusher. No. 1,424,792; Aug. 8.

Adams, Walter A., Rochester, N. Y. Sectional table. No. 1,425,072; Aug. 8.

Aeolian Company, The. (See Dickinson, Joseph H., assignor.)

Aeolian Company, The. (See Head, Robert, assignor.)

Aktiebolaget Gerh. Arehns Mekaniska Verkstad. (See Örmström, Gustaf, assignor.)

Aktiebolaget Lux. (See Carlstedt, Sven M., assignor.)

Alderman, William N., et al. (See Crippen, Henry M., assignor.)

Alden, George H., Folkestone, England. Tread band for pneumatic tires. No. 1,425,356; Aug. 8.

Allegheny Steel Company. (See Hostettler, Leigh W., assignor.)

Allen, George B., Atlanta, Ga. Rotatable brush. No. 1,425,435; Aug. 8.

Allis-Chalmers Manufacturing Company. (See George, Edgar C., assignor.) (Reissue.)

Alith-Prouty Company. (See Older, Roy B., assignor.)

Altman, Helen S., Elcho, Wis. Portable wardrobe. No. 1,425,228; Aug. 8.

Ambler, George B., and H. F. Shaw, assignors to F. A. Whitney Carriage Company, Leominster, Mass. Finishing articles in basketware. No. 1,424,972; Aug. 8.

American Cellulose and Chemical Company, Limited. (See Briggs, John F., assignor.)

American Laundry Machinery Company. (See Cutter, Edmund L., assignor.)

American Manganese Steel Company. (See Bennett, William H. K., assignor.)

American Pulverizer Company. (See Knittel, Paul S., assignor.)

American Sanitary Refrigeration Co. (See Fischbacher, Philip, assignor.)

American Steel Foundries. (See Sparrow, Arthur, assignor.)

Andresen, Julius C., assignor to California Barrel Company, San Francisco, Calif. Cover fastener for shipping pails. No. 1,425,311; Aug. 8.

Anglemeyer, Clayton O., and F. E. Perlberg, Racine, Wis. Excavator plow point. No. 1,424,750; Aug. 8.

Angus, Donald J., Indianapolis, Ind. Movable element for meters. No. 1,425,229; Aug. 8.

Antaramian, Hrant G., Kenosha, Wis. Striping machine. No. 1,425,312; Aug. 8.

Anthony, Marcus O., New York, N. Y., assignor to M. C. Rosenfeld, Cleveland, Ohio. Grinding mill. No. 1,425,161; Aug. 8.

Anthony, Thomas P., Edgewater Park, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Molding apparatus. No. 1,425,230; Aug. 8.

Apex Specialties Corporation. (See Greenwood, Richard F., assignor.)

Arbuckle, Samuel F., assignor to United States Automotive Corporation, Connersville, Ind. Tilting reflector for lamps. No. 1,424,793; Aug. 8.

Arthur, Edward D. (See Cartter, W. G., and Arthur.)

Aselin, Alfred J., Bay City, Mich. Marking hammer. No. 1,425,357; Aug. 8.

Associated Newspaper Limited. (See Hawkins, Alfred G., assignor.)

Atwood Machine Company, The. (See Bradley, Edward E., assignor.)

Audiffren Refrigerating Machine Co. (See Karr, A. D., and Perkins, assignors.)

Auto-Ordance Corporation. (See Payne, Oscar V., assignor.)

Automatic Mail Exchange Co. (See Millsaps, Daniel W., assignor.)

Automatic Packing & Labeling Company. (See Gwinn, George W., assignor.)

Automatic Packing & Labeling Company. (See Gwinn, G. W., and Leary, assignors.)

Automatic Products Company. (See Whitman, Charles F., assignor.)

Automatic Refrigerating Company. (See Marshall, Albert T., assignor.)

Ayotte, Joseph R., Chicago, Ill. Wrench or other tool. No. 1,424,794; Aug. 8.

Baco Electric Co. (See Nelson, Nels A., assignor.)

Baer, Jacob A., Honesdale, Pa. Air valve for fuel tanks. No. 1,425,358; Aug. 8.

Baker, David B., Hoquiam, Wash. Clothes-drying rack. No. 1,425,231; Aug. 8.

Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Water-tube boiler. No. 1,425,162; Aug. 8.

Baker, Le Roy, St. Louis, Mo. Making pigments. No. 1,425,436; Aug. 8.

Baker, Le Roy, St. Louis, Mo. Making pigments. No. 1,425,437; Aug. 8.

Baker, Newton D., Secretary of War, trustee. (See Buckendale, Lawrence R., assignor.)

Baker Steam Motor Car and Manufacturing Co., The. (See Baker, Hartley O., assignor.)

Baker, William E., and W. F. Sonneman, assignors to Wonder Trap Co., Inc., Waco, Tex. Machine for manufacturing wire cages. No. 1,424,973; Aug. 8.

Baldwin Locomotive Works, The. (See Sykes, J. P., and Limerick, assignors.)

Bambrick, Anna M. (See Worthington, Tillman B., assignor.)

Bangerter, Friedrich, New York, N. Y. Automatic rapid-fire machine gun. No. 1,424,751; Aug. 8.

Bannon, John F., Bayonne, N. J. Oil burner. No. 1,424,795; Aug. 8.

Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Electric storage battery. No. 1,425,163; Aug. 8.

Barili, Arthur E. (See Gates, Benjamin L., assignor.)

Barnett, Ralph L., Langeloth, Pa. Lubricating device. No. 1,424,974; Aug. 8.

Barney, Fred H., Fort Worth, Tex., and D. S. Bowers, Tulsa, Okla. Safety combination connection clamp. No. 1,425,164; Aug. 8.

Barr, John H. (See Jones, T. D., and Barr.)

Barr, Mary, executrix. (See Jones T. D., and Barr.)

Barron, Langdon S., assignor of one-half to B. Richter, St. Louis, Mo. Shoe heel. No. 1,424,975; Aug. 8.

Barry, Charles A., Detroit, Mich. Stud driver. No. 1,425,359; Aug. 8.

Barry, David, et al. (See Haws, William H., assignor.)

Bartholdy, Max, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Measuring instrument. No. 1,425,438; Aug. 8.

Bartholomé, Charles L., Terre Haute, Ind. Clamping device for clothes-lines. No. 1,425,313; Aug. 8.

Baruch, Samuel, New York, N. Y. Box-strap seal. No. 1,424,976; Aug. 8.

Bayer, Frank E., Erie, assignor to Erie Art Metal Company, Millcreek Township, Pa. Sheet-metal article. No. 1,425,232; Aug. 8.

Bead Chain Manufacturing Co., The. (See Prevot, Frederic P., assignor.)

Beasley, Harry E., and W. Byrd, Victoria, British Columbia, Canada. Dirigible headlight. No. 1,425,439; Aug. 8.

Beck, James H., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Justifying spacer or space band. No. 1,424,870; Aug. 8.

Beeman, Edwin R., assignor to Beeman Tractor Company, Minneapolis, Minn. Wheel. No. 1,425,073; Aug. 8.

Beeman Tractor Company. (See Beeman, Edwin R., assignor.)

Beeman Tractor Company. (See Phelps, Spencer H., assignor.)

Behr, Henry, Brooklyn, N. Y. Folding bassinette. No. 1,424,796; Aug. 8.

Beiswinger, William C., and R. F. Morgan, assignors to W. H. Nicholson & Co., Wilkes-Barre, Pa. Electrode holder. No. 1,425,440; Aug. 8.

Bell, James A., et al. (See Johnsen, Sigfred, assignor.)

Bendix Engineering Works, Inc. (See Bendix, Vincent, assignor.)
Bendix, Vincent, assignor to Bendix Engineering Works, Inc., Chicago, Ill. Clutch. No. 1,425,360; Aug. 8.
Bennett, William H. K., Chicago, Ill., assignor to American Manganese Steel Company, Augusta, Me. Suction nozzle. No. 1,425,165; Aug. 8.
Bentz, Harry, Montclair, N. J. Cabinet drier. No. 1,425,314; Aug. 8.
Bergmann, Andrew H., New York, N. Y. Toy-house construction. No. 1,425,166; Aug. 8.
Berond, Victor, Pelican Rapids, Minn. Grave marker. No. 1,425,361; Aug. 8.
Berthold Gustave W., Chicago, Ill. Automatic reversing mechanism. No. 1,424,797; Aug. 8.
Best, Edwin J., Woodward, Ala. Automatic revolving dump. No. 1,424,871; Aug. 8.
Bickley, Ross M., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Picking table. No. 1,425,441; Aug. 8.
Bidwell, Earl E., assignor of forty-five one-hundredths to P. Quesenberry, Frederick, Okla. Packing means for rotary engines. No. 1,424,977; Aug. 8.
Biggs, Charles L., Meredian Tenn. Mail delivery and receiving device. No. 1,425,167; Aug. 8.
Bingham, Forrest E., New Bedford, Mass. Blowtorch. No. 1,425,362; Aug. 8.
Birchman, Andrew, G. O. Matter, and J. H. McCoy, assignors to Universal Nut Lock Company, Portland, Oreg. Nut lock. No. 1,424,978; Aug. 8.
Bisaillon, Hector E. (See Mills, W. S., and Bisaillon.)
Bishop, George E., Cleveland, Ohio. Automobile inclosure. No. 1,425,442; Aug. 8.
Bishop, George E., Cleveland, Ohio. Automobile curtain. No. 1,425,443; Aug. 8.
Bishop, George E., Cleveland, Ohio. Automobile inclosure. No. 1,425,444; Aug. 8.
Bishop, George E., Cleveland, Ohio. Automobile inclosure. No. 1,425,445; Aug. 8.
Black, Harvey B., Bogota, N. J. Explosive engine. No. 1,424,798; Aug. 8.
Bláthy Otto T., Budapest, Hungary. Adjusting integrating electricity meters. No. 1,424,752; Aug. 8.
Blount, John E., Louisville, Ky. Electric humidor. No. 1,424,979; Aug. 8.
Bolger, Robert S., assignor to International Motor Company, New York, N. Y. Winch. No. 1,425,233; Aug. 8.
Bordas, John, Miami, Fla. Blow-out patch. No. 1,425,234; Aug. 8.
Bovee, Ransom Y., Maywood, assignor of one-half to O. J. Buck, Chicago, Ill. Explosion engine. No. 1,424,872; Aug. 8.
Bowers, Don S. (See Barney, F. H., and Bowers.)
Boxell, Augustus G., Los Angeles, Calif. Film-treatment cage. No. 1,424,873; Aug. 8.
Boyle, Rudolph B., Kansas City, Mo. Automatic train-stopping device. No. 1,424,980; Aug. 8.
Brabrook, Frank M., Elmira, N. Y. Fountain washing device. No. 1,424,874; Aug. 8.
Bradley, Edward E., assignor to The Atwood Machine Company, Stonington, Conn. Spinning machine. No. 1,425,363; Aug. 8.
Bradley, Walter E. F., New York, N. Y. Magnetic separator. No. 1,425,235; Aug. 8.
Bratland, Edward R., Chicago, Ill. Wrist blotter. No. 1,424,981; Aug. 8.
Braun Company, The. (See Braun, William F. H., assignor.)
Braun, William F. H., assignor to The Braun Company, Philadelphia, Pa. Sharpener for meat-slicing machines. No. 1,424,875; Aug. 8.
Brenker & Kessler Company. (See Kessler, Harry C., assignor.)
Brewington, Henry S., Baltimore, Md. Paper container. No. 1,425,168; Aug. 8.
Brewington, Henry S., Baltimore, Md. Paper container. No. 1,425,169; Aug. 8.
Brewster, Charles W., assignor to Brewster Train Control Co. Inc., New York, N. Y. Track circuit for train-control systems. No. 1,425,315; Aug. 8.
Brewster Train Control Co. (See Brewster, Charles W., assignor.)
Brière, Charles. (See Gendron, A., and Brière.)
Briggs & Stratton Company. (See Briggs, S. F., and Jacobi, assignors.)
Briggs, John F., Spondon, near Derby, England, assignor to American Cellulose and Chemical Manufacturing Company Limited. Treatment of cellulose acetate products. No. 1,425,364; Aug. 8.
Briggs, Stephen F., and E. N. Jacobi, assignors to Briggs & Stratton Company, Milwaukee, Wis. Steering-column control unit. No. 1,425,170; Aug. 8.
Bromley, Edson M., Bristol, Ill. Hayrack. No. 1,425,171; Aug. 8.
Brown, Geo. W., & Son State Bank, The, trustee. (See Frost, Ralph L., assignor.)
Brown, Hanson & Boettcher. (See Dienner, John A., assignor.)
Brown, Harry E., Grenola, Kans. Adjuster. No. 1,424,799; Aug. 8.
Brown, Joseph F. (See Logan, T. A., Brown, and Davis.)
Brown, Robert E., Olean, N. Y. (Combination razor case, hone, and strop. No. 1,425,446; Aug. 8.
Brundage, Lowell M., Thompson, Pa. Pin inserter and remover. No. 1,425,447; Aug. 8.
Bruns, Alfred E., Brooklyn, N. Y. Container. No. 1,425,236; Aug. 8.
Buck, Orlando J. (See Bovee, Ransom Y., assignor.)
Buckendale, Lawrence R., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Multiple control mechanism. No. 1,425,316; Aug. 8.
Buckingham, Charles L., Denver, Colo. Retort furnace and condensing apparatus for the eduction of oil and fuel gas from oil shales and oil sands. No. 1,425,074; Aug. 8.
Budin, Richard B., Brooklyn, N. Y. Toy. No. 1,424,982; Aug. 8.
Bufton, Frank H. (See Ott, H. N., and Bufton.)
Bulski, Andrew, assignor of one-half to P. J. Quinn and one-fourth to S. Sullivan, Newton, Mass. Horseshoe calk. No. 1,424,800; Aug. 8.
Burgoon, Oliver E., Toledo, Ohio. Shock absorber. No. 1,424,983; Aug. 8.
Burk, Milton H., and Edith M. Currier, St. Joseph, Mich. Manicuring instruments. No. 1,424,876; Aug. 8.
Busch-Sulzer Bros.-Diesel Engine Company. (See Verhey, Hulbert C., assignor.)
Business Systems, Limited. (See Roberts, Herbert L., assignor.)
Butler, Henry. (See Eldridge, John, assignor.)
Byers, Robert M., Brooklyn, N. Y. Garter. No. 1,424,801; Aug. 8.
Byrd, Atvill, Kansas City, Mo. Obstetrical instrument. No. 1,424,984; Aug. 8.
Byrd, Walter. (See Beasley, H. E., and Byrd.)
Byron, Hagar B., New York, N. Y. Film sprocket wheel for moving-picture machines. No. 1,424,877; Aug. 8.
Cady, George B., Canastota, N. Y. Device for placing pistons having rings in cylinders. No. 1,425,075; Aug. 8.
Caldwell, Clarence H., Oak Park, Ill. Typewriter attachment. No. 1,424,985; Aug. 8.
California Barrel Company. (See Andresen, Julius C., assignor.)
Callaway, Oswald E., Dallas, Tex. Attachment for binders. No. 1,425,365; Aug. 8.
Cameron-Cowburn, Gertrude M., Gosport, England. Gearing. No. 1,425,172; Aug. 8.
Canfield, Harry R., Cleveland, Ohio. Snowplow. No. 1,424,878; Aug. 8.
Carey, James A., Pittsburgh, Pa. Plate twirler for engravers. No. 1,424,986; Aug. 8.
Carlson, Axel. (See Swanson, P., and Carlson.)
Carlson, Oscar, Boston, Mass. Bottle stopper. No. 1,425,237; Aug. 8.
Carlstedt, Sven M., assignor to Aktiebolaget Lux, Stockholm, Sweden. Waxing or polishing brush. No. 1,424,879; Aug. 8.
Carpenter, Paul. (See Ellis, Ridsdale, assignor.)
Carrie Gyroscopic Corporation, The. (See Rossiter, George A., assignor.)
Carroll, Herron G., Ayr, Nebr. Antimiring device. No. 1,425,448; Aug. 8.
Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose ether solvent and composition. No. 1,425,173; Aug. 8.
Carter, Robert D. (See Drake, T., and Carter.)
Cartter, William G., and E. D. Arthur, Arcadia, Calif. Solar-heat-collecting apparatus. No. 1,425,174; Aug. 8.
Cary, Edward D., New York, N. Y. Mold-handling apparatus. No. 1,425,449; Aug. 8.
Cate, Charles D., assignor of one-half to J. D. Fisk, Syracuse, N. Y. Reel. No. 1,425,076; Aug. 8.
Cauhn, Charles R. (See Stuart, Edwin T., assignor.)
Challoner Company. (See Ackerberg, Carl, assignor.)
Champion Ice Machine Company, The. (See Gase, George A., assignor.)
Chanier, Gaston L., Jersey City, N. J., assignor to Pathé Exchange, Inc., New York, N. Y. Film-printing machine. No. 1,425,450; Aug. 8.
Channon, Thomas H., Fitzroy, Melbourne, Victoria, Australia: Manufacture of resilient tires and apparatus therefor. No. 1,424,802; Aug. 8.
Chapman, Charles E., Chicago, Ill. Jewelry tray. No. 1,425,317; Aug. 8.
Chapman, Edward B., Whitley Bay, England. Magnetic strainer apparatus for separating solids from liquids. No. 1,425,366; Aug. 8.
Chase, George T., Utica, N. Y. Hairpin. No. 1,425,367; Aug. 8.
Chemische Fabrik Griesheim-Elektron. (See Laska, A. L., and Prillwitz, assignors.)
Childs, Albert R., Fremont, Ohio. Inseam measure. No. 1,425,175; Aug. 8.
Choate, Roy E., Cedar Rapids, Iowa. Cable-take-up grip. No. 1,425,077; Aug. 8.
Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
Clark, Albert H., Molesey, England. Clutch. No. 1,424,987; Aug. 8.
Clark, Eugene C., Oswego, N. Y. Stone picker. No. 1,425,078; Aug. 8.
Clayton, James, Sebakwe, Babbicombe, England, assignor to The Viscose Company, Marcus Hook, Pa. Apparatus for spinning artificial silk. No. 1,425,368; Aug. 8.
Cleveland Brass Manufacturing Company, The. (See Smith, William H., assignor.)
Cluett, Peabody & Co. Inc. (See Kennedy, R. O., Gillespie, and Marshall, assignors.)

Cochran, William R., Delphos, Ohio, assignor of two-thirds to B. E. Jordan and J. C. Jordan, Detroit, Mich. Shock absorber for vehicles. No. 1,425,176; Aug. 8.
Cole, Amos G., W. H. Foster, Lewistown, and L. H. Fry, Yeagertown, Pa. Spring fitting and quenching machine. No. 1,425,238; Aug. 8.
Coleman, Arthur B., Gosnells, near Perth, Australia. Carpenter's hammer. No. 1,425,369; Aug. 8.
Colt, Samuel S., Orange, N. J. Holding or tying means for molding apparatus. No. 1,424,880; Aug. 8.
Combination Machine Company. (See Peterson, Jonathan, assignor.)
Combination Machine Company. (See Thom, James C., assignor.)
Cone, Ralph R., assignor to L. Will, Syracuse, N. Y. Electric perforating appliance. No. 1,425,079; Aug. 8.
Conklin, Walter L. (See Miller, A. W., and Conklin.)
Connecticut Telephone and Electric Company, Inc., The. (See Donle, Harold P., assignor.)
Constable, John P., assignor to New Jersey Patent Company, West Orange, N. J. Driving connection. No. 1,425,177; Aug. 8.
Conti, Marcelo, Buenos Aires, Argentina. Plow. No. 1,425,451; Aug. 8.
Continental Motors Corporation. (See Olson, Charles W., assignor.)
Cooper, Thomas W., Montclair, N. J. Lens. No. 1,425,452; Aug. 8.
Corbett, Sewell M., Honolulu, Hawaii. Fastener. No. 1,424,803; Aug. 8.
Corey, Fred W., Tilton, N. H. Knitting-machine needle and making same. No. 1,425,239; Aug. 8.
Corn Products Refining Company. (See Merrill, Joseph J., assignor.)
Corona Typewriter Company, Inc. (See Marsh, Kenneth E., assignor.)
Coughtry, Arthur J., Bethlehem, Pa. Countersinking machine. No. 1,424,988; Aug. 8.
Couturier, Ernst A., Laporte, Ind. Mute for musical instruments. No. 1,425,318; Aug. 8.
Covey, Tonu. (See Covey, Victor L. and T.)
Covey, Victor L., Tell City, Ind., and T. Covey, Louisville, Ky. Cane stripper. No. 1,424,989; Aug. 8.
Cowdrill, Sidney, Toronto, Ontario, Canada. Clasp. No. 1,425,178; Aug. 8.
Cowen, Joshua L., New York, N. Y. Hand letter folder. No. 1,424,881; Aug. 8.
Coyle, Albert A., and W. S. Mitchell, St. Louis, Mo. Capstan. No. 1,424,990; Aug. 8.
Craig, Alexander, Sydney, New South Wales, Australia. Waving or curling hair. No. 1,424,991; Aug. 8.
Crane, William M., Company. (See O'Dowd, Henry W., assignor.)
Creighton, William H. P., New Orleans, La. Evaporator. No. 1,424,992; Aug. 8.
Crippen, Henry M., assignor to H. M. Crippen, W. N. Alderman, F. Scott, and H. H. Haning, Athens, Ohio. Vertical loose-leaf binding machine. No. 1,424,753; Aug. 8.
Crosby, Arthur P., assignor of one-half to W. T. Price, Minneapolis, Minn. Air exhaust for vapor heating systems. No. 1,425,370; Aug. 8.
Crosser, John L., Tulsa, Okla. Auto theft alarm. No. 1,424,993; Aug. 8.
Cucchiara, Giovanni S., Needham, Mass. Nonskid appliance. No. 1,424,882; Aug. 8.
Cullen, James K., assignor to Niles-Bement-Pond Company, New York, N. Y. Driving mechanism for wheel lathes. No. 1,424,754; Aug. 8.
Cullen, James K., New York, N. Y., and W. T. Sears, Montclair, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y. Axle-milling machine. No. 1,424,755; Aug. 8.
Cullen, Thomas, Amboy, Ill. Candle extinguisher. No. 1,425,080; Aug. 8.
Cummings, Arthur M., Aberdeen, Md. Locking device for automobile wheels. (Reissue.) No. 15,428; Aug. 8.
Currier, Edith M. (See Burk, M. H., and Currier.)
Cutter, Edmund L., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Drying tumbler. No. 1,424,994; Aug. 8.
Danberg, Fred W., Toledo, Ohio. Article-setting-up means. No. 1,425,319; Aug. 8.
Danielson, Albin, assignor of one-half to Hilmer Johnson, Brooklyn, N. Y. Propeller. No. 1,425,179; Aug. 8.
Davies, Albert J., Sault Ste. Marie, Ontario, Canada. Fourdrinier machine. No. 1,425,240; Aug. 8.
Davies, David B., and E. P. Strong, Munising, Mich. Process and apparatus for preparing sulphite digestion liquor. No. 1,424,883; Aug. 8.
Davis, Charles E. (See Logan, T. A., Brown, and Davis.)
Davis Sewing Machine Company, The. (See Ireland, Ward S., assignor.)
Davis Sewing Machine Company, The. (See Ireland, W. S., and Meyer, assignors.)
Day, Edwin W., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Jewel support for compasses. No. 1,424,804; Aug. 8.
Day, Herbert W. (See Parker, L. H., and Day.)
Dean, Charles V., and C. A. Simonds, Grand Rapids, Mich. Air vent and vacuum seal. No. 1,424,756; Aug. 8.
Deane, Granville M., Dallas, Tex. Clamp. No. 1,424,884; Aug. 8.
De Forest, Lee, New York, N. Y. Subterranean signaling system. No. 1,424,805; Aug. 8.
Dell, John N., San Francisco, Calif. Match scratcher. No. 1,425,453; Aug. 8.
De Long, Willard W., Seattle, Wash. Milk-bottle carrier. No. 1,424,995; Aug. 8.
Demole, Charles R., Geneva, Switzerland. Suspension device for electric traction motors. No. 1,425,454; Aug. 8.
Dent, Robert K., Akron, Ala. Ice-cream container. No. 1,425,241; Aug. 8.
De Santis, Salvatore, Naples, Italy. Means for stabilizing aeroplanes. No. 1,425,455; Aug. 8.
Desmarest, Henri G. G., Paris, France. Saucepan. No. 1,425,371; Aug. 8.
Despard, Victor R., Hinsdale, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind. Mechanical movement. No. 1,425,180; Aug. 8.
Detroit Pneumatic Chuck Company. (See Finlayson, Don N., assignor.)
De Vito, Louis, Cleveland, Ohio. Dough-forming machine. No. 1,424,806; Aug. 8.
Dial, Nathaniel, New York, N. Y. Medicine bottle. No. 1,425,456; Aug. 8.
Dickinson, Joseph H., Larchmont, N. Y., assignor to The Aeolian Company. Combined cabinet and piano. No. 1,424,885; Aug. 8.
Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Chicago, Ill. Magnifying runner for slide rules. No. 1,424,807; Aug. 8.
Dienner, John A., assignor to Brown, Hanson & Boettcher, Chicago, Ill. Burner. No. 1,424,808; Aug. 8.
Dietzgen, Eugene Company. (See Dieckmann, Carl F., assignor.)
Di Giacomo, Salvatore. (See Milito, Peter, assignor.)
Dinardo, Peter A., Brooklyn, N. Y. Hair duster. No. 1,425,242; Aug. 8.
Dittemore, Joseph E., Blackwell, Okla. Hand garden plow. No. 1,425,372; Aug. 8.
Dixon, Joseph, Crucible Company. (See Strong, George, assignor.)
Dochnal, Frank, Collinsville, Ill. Interlocking tile. No. 1,425,181; Aug. 8.
Dockenwadel, Frederick G., Coshocton, Ohio. Foundry molding material. No. 1,425,457; Aug. 8.
Donle, Harold P., assignor to The Connecticut Telephone and Electric Company, Incorporated, Meriden, Conn. Electric switch. No. 1,424,809; Aug. 8.
Douglass, Leon F., Menlo Park, Calif. Method and apparatus for producing multiple-image effects in photography. No. 1,424,886; Aug. 8.
Dräger, Alexander B., Lubeck, Germany. Stop valve for pressure gas containers. No. 1,424,810; Aug. 8.
Drake, Tom, and Robert D. Carter, Broadheath, assignors to Linotype and Machinery Limited, London, England. Distributing mechanism of typographical composing machines. No. 1,424,887; Aug. 8.
Drake, Robert Z., Omaha, Nebr. Bridge shoe. No. 1,425,320; Aug. 8.
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Draper Corporation. (See Vanhonsebrouck, Charles E., assignor.)
Dubbs, Sylvester S., Clarendon, Tex. Detachable washer. No. 1,425,182; Aug. 8.
Dudley, Edward F., Oak Park, assignor to The Miehle Printing Press and Manufacturing Company, Chicago, Ill. Printing press. No. 1,424,757; Aug. 8.
Dunlap, David E., assignor of three-fourths to A. J. Elias, Buffalo, N. Y. Wing construction for airplanes. No. 1,424,996; Aug. 8.
Duratex Company, The. (See Wilson, John A., assignor.)
Duthie, John, jr., Seattle, Wash. Ship-hull construction. No. 1,425,243; Aug. 8.
Dwyer, Patrick J., New York, N. Y. Safety-razor-stropping device. No. 1,425,081; Aug. 8.
Eason, Clarence M., Moline, Ill., assignor to Hyatt Bearings Division, General Motors Corporation, Newark, N. J. Dynamometer. No. 1,424,888; Aug. 8.
Eastman Kodak Company. (See Carroll, Stewart J., assignor.)
Easton, Elmer E., Brockton, Mass. Calculating device. No. 1,425,244; Aug. 8.
Eclipse Machine Company. (See McGrath, William L., assignor.)
Economos, James N., Daphne, Ala. Okra machine. No. 1,425,373; Aug. 8.
Edison, Thomas A., Llewellyn Park, West Orange, N. J. Transmitter. No. 1,425,183; Aug. 8.
Edison, Thomas A., Llewellyn Park, West Orange, N. J. Production of thin metal sheets or foils. No. 1,425,184; Aug. 8.
Edison, Thomas A., Llewellyn Park, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J. Styles mounting. No. 1,425,458; Aug. 8.
Edwards, Arthur L., Maupin, Oreg. Drilling machine. No. 1,424,997; Aug. 8.
Eggert, Otto H., Chicago, Ill. Towel rack. No. 1,425,459; Aug. 8.
Eklund, Georg, Winona, Minn. Driving mechanism for velocipedes. No. 1,425,082; Aug. 8.
Eldridge, John, assignor of one-half to H. Butler, Winnipeg, Manitoba, Canada. Shoe fastener. No. 1,425,245; Aug. 8.
Elgy, Valentine C. H., Surrey, England. Apparatus for sorting out and delivering bodies or lids of tins or the like. No. 1,425,374; Aug. 8.
Elias, Abraham J. (See Dunlap, David E., assignor.)

Ellis, Ridsdale, Oak Park, Ill. Separating process. No. 1,425,185; Aug. 8.
Ellis, Ridsdale, Oak Park, Ill. Separating process. No. 1,425,186; Aug. 8.
Ellis, Ridsdale, Oak Park, assignor of five per cent to P. Carpenter, Chicago, Ill. Separating process. No. 1,425,187; Aug. 8.
Elliott, Howard A., Altoona, Pa. Pressing device. No. 1,425,460; Aug. 8.
Equipment Devices Company. (See Kortenhoeven, Peter, assignor.)
Erhard, Robert P., Juniata, Pa. Hydroplane. No. 1,424,811; Aug. 8.
Erie Art Metal Company. (See Bayer, Frank E., assignor.)
Etherington, Harry R. L., Pinner, England. Rear sight for rifles and like small arms. No. 1,425,321; Aug. 8.
Etter, Frederick M. (See Kintzele, J. H., Manheimer and Etter.)
Etter, Frederick M. (See Manheimer, A., Etter, and Kintzele.)
Evans, Adele K., executrix. (See Evans, Henry R.)
Evans, Henry R., deceased, London, England; A. K. Evans, executrix. Apparatus for printing motion-picture films. No. 1,425,461; Aug. 8.
Fanner Manufacturing Company, The. (See Gibson, Samuel H., assignor.)
Farnham, Sidney W., assignor to Goodman Manufacturing Company, Chicago, Ill. Controlling device for electric locomotives. No. 1,425,375; Aug. 8.
Farrell, Ernest, Salford, England. Textile and like drying cylinder. No. 1,425,083; Aug. 8.
Farrell, Ray P., and C. E. Moon, Oxnard, Calif. Pilot signal for electric heating devices. No. 1,425,462; Aug. 8.
Federal Electric Company. (See White, Bruce C., assignor.)
Fender, Thomas. (See McKechnie, J., and Fender, assignor.)
Fenton, James T., Salt Lake City, Utah. Process of and apparatus for distilling. No. 1,424,998; Aug. 8.
Finlayson, Don N., assignor to Detroit Pneumatic Chuck Company, Flat Rock, Mich. Chuck. No. 1,424,889; Aug. 8.
Fischbacher, Philip, Quincy, Ill., assignor to American Sanitary Refrigeration Co., Owensboro, Ky. Separator. No. 1,425,246; Aug. 8.
Fischer, Joseph W., Brooklyn, N. Y. Safety razor. No. 1,425,463; Aug. 8.
Fischer, Joseph W., Brooklyn, N. Y. Game. No. 1,425,464; Aug. 8.
Fishel, Henry W., New York, N. Y. Jewelry and manufacturing the same. No. 1,425,188; Aug. 8.
Fisher, Kenneth G., Tacoma, Wash. Weighing scale attachment. No. 1,425,465; Aug. 8.
Fisk, J. Dwight. (See Cate, Charles D., assignor.)
Fitts, James L., Merchantville, assignor to Warren Webster & Company, Camden, N. J. Thermostatic-controlled valve. No. 1,425,189; Aug. 8.
Fitz Gerald, Harold G., Los Angeles, Calif. Vehicle lamp. No. 1,425,190; Aug. 8.
Folberth, William M., Cleveland, Ohio. Windshield cleaner. No. 1,424,890; Aug. 8.
Foley, James A., Omaha, Nebr. Burglar alarm. No. 1,424,891; Aug. 8.
Ford, Elbert W., Jamestown, N. Y. Game apparatus. No. 1,425,376; Aug. 8.
Ford Motor Company. (See Galamb, Joseph, assignor.)
Foster, Walter H. (See Cole, A. G., Foster, and Fry.)
Fournier, William L., Seattle, Wash. Sanding device for vehicles. No. 1,424,758; Aug. 8.
Frame, John, Searsport, Me. Scale. No. 1,425,466; Aug. 8.
Franklin Railway Supply Company. (See Peters, Frank R., assignor.)
Franson, Claudius, Annonay, France. Machine for ungraining and softening hides. No. 1,425,467; Aug. 8.
Freed, Samuel E., East Palestine, Ohio. Nonrefillable bottle. No. 1,424,892; Aug. 8.
Fried. Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
Fried. Krupp Aktiengesellschaft. (See Schröder, Hermann, assignor.)
Friedlander, Arnold, assignor to Phoenix Knitting Works, Milwaukee, Wis. Twisting and winding machine. No. 1,425,084; Aug. 8.
Frog Switch and Manufacturing Company. (See Ackermann, Clemens W., assignor.)
Froman, Oscar, and W. A. Wilmoth, Edna, Kans. Box-car door. No. 1,424,812; Aug. 8.
Frost, Ernest R., Chicago, Ill. Cord support for electric lights. No. 1,424,999; Aug. 8.
Frost, Ralph I., assignor to The Geo. W. Brown & Son State Bank, trustee, Augusta, Kans. Bearing lubricator. No. 1,425,000; Aug. 8.
Fry, Lawford H. (See Cole, A. G., Foster, and Fry.)
Furnace Fan Corporation. (See Wales, Nathaniel B., assignor.)
Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Ignition system. No. 1,425,001; Aug. 8.
Galamb, Joseph, assignor to Ford Motor Company, Detroit, Mich. Transmission and lining for the bands thereof. No. 1,424,893; Aug. 8.
Galbreath, Charles E., Chanute, Kans. Portière rod. No. 1,425,247; Aug. 8.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making cushion tires. No. 1,425,085; Aug. 8.
Garbarini, André, Courbevoie, France. Pumping apparatus. No. 1,425,191; Aug. 8.
Garelli, Adalberto, Milan, Italy. Change-speed gear. No. 1,425,002; Aug. 8.
Gas Research Company, The. (See Smith, Harry F., assignor.)
Gase, George A., Cleveland, Ohio, assignor to The Champion Ice Machine Company. Compressor. No. 1,425,192; Aug. 8.
Gaskey, Charles W., Greensburg, Pa. Rail joint. No. 1,425,468; Aug. 8.
Gates, Benjamin L., assignor to A. E. Barill, Chicago, Ill. Indicating gauge. No. 1,425,193; Aug. 8.
Gazda, Adolph A., assignor to Kaestner & Hecht Company, Chicago, Ill. Switch. No. 1,425,003; Aug. 8.
Geer, Harry R., Johnstown, Pa. Fluid-pressure-controlling valve. No. 1,425,086; Aug. 8.
Geggie, Arthur W., Minneapolis, Minn. Combined sending and return envelope. No. 1,425,004; Aug. 8.
Geisendorfer, John F., Sacramento, Calif. Heating system for motor cars. No. 1,425,377; Aug. 8.
Gelders Manufacturing Company. (See Lincoln, Purd J., assignor.)
Gendron, Aimé, Montreal, and C. Brière, Beauharnois, Quebec, Canada. Crank-holding attachment. No. 1,424,894; Aug. 8.
Gensecke, Wilhelm, Bad Homburg, Germany. Evaporating liquors and apparatus therefor. No. 1,425,005; Aug. 8.
Gensecke, Wilhelm. (See Josse, E., and Gensecke.)
George, Edgar C., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Flanged article. (Reissue.) No. 15,429; Aug. 8.
George, Frederick H., Washington, D. C. Hatpin protector. No. 1,425,194; Aug. 8.
Gibbs, Eugene U., assignor to S. Morgan Smith Company, York, Pa. Bearing for hydraulic-turbine shafts. No. 1,425,378; Aug. 8.
Gibbs, Eugene U., assignor to S. Morgan Smith Company, York, Pa. Bearing for hydraulic-turbine shafts. No. 1,425,379; Aug. 8.
Gibson, Samuel H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Sadiron holder. No. 1,424,759; Aug. 8.
Gill, Walter L., San Bernardino, Calif. Electric storage battery. No. 1,425,469; Aug. 8.
Gillespie, Alexander H. (See Kennedy, R. O., Gillespie, and Marshall.)
Girard, Louis B., and F. L. Meneley; said Meneley assignor to said Girard, Los Angeles, Calif. Centering device. No. 1,424,895; Aug. 8.
Glancey, Joseph A., Rock Island, Ill. Direction-indicating signal. No. 1,424,813; Aug. 8.
Glardon, Edouard C., Hamburg, Germany. Joint binder. No. 1,425,470; Aug. 8.
Gleason, M. H., et al. (See Owen, Robert H., assignor.)
Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Thermostatic electric control for heating systems. No. 1,424,896; Aug. 8.
Goldsmith, Joseph, jr., Chicago, Ill. Hair curler. No. 1,424,897; Aug. 8.
Goldstein, Henry G., Cleveland, Ohio. Fastening device. No. 1,425,006; Aug. 8.
Gompers, Edward E., L. Weyl, and P. Hein, New York, N. Y. Stencil-making machine. No. 1,425,248; Aug. 8.
Good Inventions Co. (See Good, John, assignor.) (Reissue.)
Good, John, Garden City, assignor to Good Inventions Co., Brooklyn, N. Y. Rotary valve. (Reissue.) No. 15,430; Aug. 8.
Goodman Manufacturing Company. (See Farnham, Sidney W., assignor.)
Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodrich, B. F., Company, The. (See Kepler, Irwin F., assignor.)
Goodwin, Charles E., Seattle, Wash. Mechanical toy insect gun. No. 1,425,249; Aug. 8.
Gordon, Thomas, Perth, Western Australia, Australia. Chassis for motor-cycle side cars. No. 1,425,380; Aug. 8.
Gorman, Thomas W., Spokane, Wash. Gas heater and vaporizer. No. 1,424,898; Aug. 8.
Gormely, Walter B. (See Little, H. N., and Gormely.)
Gottschalk, Albert, assignor to National Pneumatic Company, New York, N. Y. Car-door-operating mechanism. No. 1,424,814; Aug. 8.
Granlund, Gustaf A., assignor to The Greaves-Klusman Tool Company, Cincinnati, Ohio. Ratchet-feed mechanism. No. 1,425,007; Aug. 8.
Grattan, George E. (See Matheson, H. W., and Grattan.)
Grayson, J. H., Manufacturing Company, The. (See Grayson, John H., assignor.)

Grayson, John H., assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio. Burner for gas fires. No. 1,424,760; Aug. 8.
Grayson, John L., Morgantown, W. Va. Meter-testing device. No. 1,424,899; Aug. 8.
Greaves-Klusman Tool Company, The. (See Granlund, Gustaf A., assignor.)
Greene, John A. C., Folkestone, England. Package receptacle for doors and partitions. No. 1,424,815; Aug. 8.
Greenwood, Richard F., Brooklyn, N. Y., assignor to Apex Specialties Corporation. Cigar and cigarette holder. No. 1,425,498; Aug. 8.
Griffiths, Edwin, Maghull, near Liverpool, England. Bucket. No. 1,424,195; Aug. 8.
Grillone, Anthony F., Rochester, N. Y. Combination film camera and developing tank. No. 1,424,816; Aug. 8.
Grim, Robert A., St. Paul, Minn. Burner. No. 1,424,817; Aug. 8.
Griscom Russell Company, The. (See Pabodie, Robert J., assignor.)
Gross, Louis N., Cleveland Heights, Ohio. Wearing apparel. No. 1,425,008; Aug. 8.
Grossenbacher, Ernest, Fajardo, P. R. Oil burner. No. 1,425,196; Aug. 8.
Guard, Charles F., Phoenixville, Pa. Bottle stopper. No. 1,425,009; Aug. 8.
Guéret, André L. P., Paris, France. Valve mechanism for internal-combustion engines. No. 1,425,381; Aug. 8.
Guernsey, Charles, Wabash, Ind. Wheel. No. 1,424,818; Aug. 8.
Gusy, Eugene, Buffalo, N. Y. Sash lock. No. 1,424,900; Aug. 8.
Gwinn, George W., Edgemere, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C. Weighing mechanism. No. 1,425,251; Aug. 8.
Gwinn, George W., New York, N. Y., J. W. Leary, Allendale, N. J., assignors to Automatic Packing & Labeling Company, Durham, N. C. Machine for applying stamps and the like to packages or containers. No. 1,425,250; Aug. 8.
Haigh, Henry, Batley, England. Stop motion of looms for weaving. No. 1,425,252; Aug. 8.
Haines, Frank H., and E. B. Parsons, Camden, N. J. Game. No. 1,425,087; Aug. 8.
Hall, John A., Union, assignor of one-half to H. A. Townsend, Milton Mills, N. H. Dustpan. No. 1,424,761; Aug. 8.
Hamlin Hygrostat Corporation. (See Hamlin, John A., assignor.)
Hamlin, John A., assignor to Hamlin Hygrostat Corporation, New York, N. Y. Moisture-absorbing device. No. 1,425,197; Aug. 8.
Hampel, Karl, Detroit, Mich. Detonating device. No. 1,425,198; Aug. 8.
Handel Maatchappij H. Albert de Bary & Co. (See Hildebrand, Wilhelm, assignor.)
Haning, Harley H., et al. (See Crippen, Henry M., assignor.)
Hanke, August J., St. Louis, Mo. Sash lock. No. 1,424,762; Aug. 8.
Hansen, Arthur B., New York, N. Y. Apparatus for submarine work. No. 1,425,471; Aug. 8.
Hardy, James H., Crawford, Miss. Railway crossing. No. 1,425,472; Aug. 8.
Harper, Douglas R., Cameron, Tex. Motor switch. No. 1,424,901; Aug. 8.
Harris, Edward R. (See Jones, E. W., and Harris.)
Harris, Ernest G., North Vancouver, British Columbia, Canada. Sprinkler-system alarm valve. No. 1,425,254; Aug. 8.
Hardy, James H., Crawford, Miss. Spring frog rail. No. 1,425,253; Aug. 8.
Hartley, James, Philadelphia, Pa. Railway spike. No. 1,425,199; Aug. 8.
Haskins, Harry T., Denver, Colo. Contact brush for timers. No. 1,425,200; Aug. 8.
Hassler, Robert H., Indianapolis, Ind. Shock-absorbing device for vehicles. No. 1,424,902; Aug. 8.
Hatcher, Wade H., Stuart, Va. Spark conductor. No. 1,425,473; Aug. 8.
Hatheway, George L., New York, N. Y., assignor to The Rattan Mfg. Co., New Haven, Conn. Squeeze connector. No. 1,425,382; Aug. 8.
Hawkins, Alfred G., Hornsey, assignor of one-half to Associated Newspapers Limited, London, England. Stereotyping flong. No. 1,425,474; Aug. 8.
Hawkins, Paul J. (See Hyten, F. C., and Hawkins.)
Haws, Henry Y., et al. (See Haws, William H., assignor.)
Haws, William H., assignor of one-fourth to H. Y. Haws and one-fourth to D. Barry, Johnstown, Pa. Process and machine for making bricks. No. 1,425,010; Aug. 8.
Hayes, Lee B., and V. W. Kemp, Paonia, Colo. Basket truck. No. 1,424,819; Aug. 8.
Hayes, Oscar, Denver, Colo. Valve-control device. No. 1,425,088; Aug. 8.
Hays Manufacturing Co. (See Hitchcock, Otto G., assignor.)
Head, Robert, New York, N. Y., assignor to The Aeolian Company. Automatic musical instrument. No. 1,424,903; Aug. 8.
Heap, Guy F., Midian, Kans. Oil-well tool. No. 1,424,820; Aug. 8.
Heath, Mary, Yonkers, assignor to I. E. Letner, New York, N. Y. Life belt. No. 1,425,475; Aug. 8.
Heck, Charles M., Raleigh, N. C. Apparatus for incubating. No. 1,424,821; Aug. 8.
Hein, Paul. (See Gompers, E. E., Weyl, and Hein.)
Heindl, Frank X., Kersey, Pa. Sand-drying device. No. 1,424,904; Aug. 8.
Henkle, Frank A., Pomona, Calif. Spark plug. No. 1,425,476; Aug. 8.
Henricson, Edward A., Chicago, Ill. Seat indicator for theaters. No. 1,425,255; Aug. 8.
Henry, Jesse P., assignor to L. B. Tebbetts & Company, Incorporated, St. Louis, Mo. Key clasp. No. 1,425,089; Aug. 8.
Herds, Edvin, Detroit, Mich. Tricycle or three-wheel motor vehicle. No. 1,424,822; Aug. 8.
Herron, James C., assignor to Reflector & Illuminating Co., Chicago, Ill. Joint for electrical conduits. No. 1,425,011; Aug. 8.
Hess, Edward B., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,424,905; Aug. 8.
Hetherington, Andrew, West Hoboken, N. J. Micrometer gauge or caliper. No. 1,425,201; Aug. 8.
Hetland, Jonas and M., Bailey City, N. Dak. Plowshare. No. 1,425,012; Aug. 8.
Hetland, Marcus. (See Hetland, Jonas and M.)
Heyl & Patterson, Inc. (See Bickley, Ross M., assignor.)
Hibbard, Robert L., Bellevue, Pa. Boring lathe. No. 1,425,202; Aug. 8.
Hickman, John P. and J. P., jr., Asbury Park, N. J. Box or container for berries and the like. No. 1,425,256; Aug. 8.
Hickman, John P., jr. (See Hickman, John P. and J. P., jr.)
Hildebrand, Wilhelm, Berlin-Lichtenberg, Germany, assignor to Handel Maatchappij H. Albert de Bary & Co., Amsterdam, Netherlands. Triple valve for single-chamber compressed-air brakes. No. 1,425,477; Aug. 8.
Hitchcock, Otto G., assignor to Hays Manufacturing Co., Erie, Pa. Adjustable mixing faucet. No. 1,425,478; Aug. 8.
Hobson, Claude C., Kenwood Park, assignor of one-half to O. O. Hobson, Vinton, Iowa. Cane-harvesting apparatus. No. 1,425,479; Aug. 8.
Hobson, Oto O. (See Hobson, Claude C., assignor.)
Hockridge, Sidney, Redlands, Calif. Method and means for protecting trees. No. 1,425,257; Aug. 8.
Hoffmann, Albert, Corona, N. Y. Boutonnière holder. No. 1,425,480; Aug. 8.
Hoffman, George C. (See Pedroarena, U., and Hoffman.)
Hoke, John I., Medina, N. Y. Traction wheel. No. 1,425,258; Aug. 8.
Hoke, John I. and L. I., South Bend, Ind. Clod crusher and packer. No. 1,424,906; Aug. 8.
Hoke, Lynn I. (See Hoke, John I., and L. I.)
Hollar Company, The. (See Kennedy, Anthony, assignor.)
Homan, Louis V., South Dartmouth, Mass. Conduit for power-transmitting cables. No. 1,425,090; Aug. 8.
Honderik, Francis I., et al. (See Purcell, Benjamin H., assignor.)
Horelick, Samuel, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Polyphase transformer. No. 1,425,091; Aug. 8.
Hostler, John C., Altoona, Pa. Poultry feeder. No. 1,425,013; Aug. 8.
Hostettler, Leigh W., Tarentum, Pa., assignor to Allegheny Steel Company. Journal-box lid. No. 1,425,092; Aug. 8.
Hostettler, Leigh W., Tarentum, Pa., assignor to Allegheny Steel Company, Brackenridge, Pa. Making journal box lids. No. 1,425,093; Aug. 8.
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Bag-filling machine. No. 1,425,481; Aug. 8.
Howard, Karl S. (See Westlake, C. T., and Howard.)
Howden, James, & Company, Limited. (See Hume, James H., assignor.)
Howe, Thomas C., Louisville, Ky. Display device. No. 1,425,259; Aug. 8.
Hudson, William F., Philadelphia, Pa. Transmission casing. No. 1,425,094; Aug. 8.
Hulit, John A., Chicago, Ill. Telegram holder. No. 1,424,907; Aug. 8.
Hull, Matthew R., assignor to Rex Manufacturing Company, Connersville, Ind. Automobile top. No. 1,425,014; Aug. 8.
Hume, James H., assignor to James Howden & Company, Limited, Glasgow, Scotland. Furnace front. No. 1,425,095; Aug. 8.
Humphrey, Hubert R., Kalamazoo, Mich. Gas stove. No. 1,425,096; Aug. 8.
Humphrey, Hubert R., Kalamazoo, Mich. Gas burner. No. 1,425,097; Aug. 8.
Huntley, Ernest R., Milwaukee, Wis., assignor to Industrial Research Corporation, Toledo, Ohio. Gearing. No. 1,425,496; Aug. 8.
Hyatt Bearings Division, General Motors Corporation. (See Eason, Clarence M., assignor.)
Hyten, Forrest C., and P. J. Hawkins, Indianapolis, Ind. Concrete roof-tile pallet. No. 1,425,015; Aug. 8.
Illinois Watch Case Company. (See Lester, William H., assignor.)
Industrial Research Corporation. (See Huntley, Ernest R., assignor.)

Ingelson, Gottfrid, Indiana Harbor, Ind. Universal concave shave. No. 1,425,260; Aug. 8.

Ingoldby, Maurice K., assignor to The Variable Speed Gear, Limited, Westminster, London, England. Hydraulic pump and motor. No. 1,424,823; Aug. 8.

Insley Manufacturing Company. (See Insley, W. H., and Rasmussen, assignors.)

Insley, William H., and A. C. Rasmussen, assignors to Insley Manufacturing Company, Indianapolis, Ind. Dumping bucket. No. 1,425,383; Aug. 8.

International Harvester Company. (See Pearson, Charles, assignor.)

International Motor Company. (See Bolger, Robert S., assignor.)

International Printing Company. (See Kotterman, Eugene, assignor.)

Ireland, Ward S., and W. H. Meyer, St. Louis, Mo., assignors, by mesne assignments, to The Davis Sewing Machine Company. Controller for oscillating washing-machine tubs. No. 1,425,098; Aug. 8.

Ireland, Ward S., St. Louis, Mo., assignor, by meane assignments, to The Davis Sewing Machine Company. Drain board for clothes wringers. No. 1,425,099; Aug. 8.

Isaacs, Mone R., assignor to United Products Corporation of America, Philadelphia, Pa. Coating composition or paint. No. 1,424,908; Aug. 8.

Jackson, Granbery. (See Waller, R. H., and Jackson.)

Jackson, Robert E., Princeton, W. Va., and B. O. Yearwood, Toccoa, Ga., assignors to Locomotive Stoker Company. Locomotive stoker. No. 1,425,322; Aug. 8.

Jacobi, Edward N. (See Briggs, S. F., and Jacobi.)

Jacques, George W., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Duplex eyeleting machine. No. 1,425,016; Aug. 8.

James, Thomas J., assignor to T. Thompson, Philadelphia, Pa. Retaining device for a riveting set. No. 1,425,482; Aug. 8.

James, William. (See Meyer, S. M., and James.)

Jarecki, Mathias V., Columbus, Nebr. Tractor wheel. No. 1,424,909; Aug. 8.

Jean, Wilfrid, Lowell, Mass. Automobile heater. No. 1,425,483; Aug. 8.

Jenkins, Amanda, Winamac, Ind. Window screen. No. 1,425,484; Aug. 8.

Johnsen, Sigfred, Menominee, Mich., assignor of one-third to J. A. Bell, Clintonville, Wis., and one-third to J. H. Vernet, Menominee, Mich. Duplex piston ring. No. 1,425,017; Aug. 8.

Johnson, Fred A., St. Paul, Minn. Bucket and hoisting apparatus. No. 1,424,910; Aug. 8.

Johnson, George M., Jeannette, Pa. Safety device for mine cages. No. 1,425,203; Aug. 8.

Johnson, Hilmer. (See Danielson, Albin, assignor.)

Johnson, John, East Alton, Ill. Washing machine. No. 1,425,204; Aug. 8.

Johnson, Orin, and C. Neuman, Menasha, Wis. Tire. No. 1,424,824; Aug. 8.

Johnston, Samuel E., Edinburgh, Scotland. Fastening device for wearing apparel and the like. No. 1,425,485; Aug. 8.

Joice, Stuart K. (See Washington, B. C., and Joice.)

Jones, Archibald, Pittsburgh, Pa. Vertical retort zinc-smelting furnace. No. 1,424,825; Aug. 8.

Jones, Earle W., New York, N. Y., and E. R. Harris, Arlington, N. J. Phonographic record. No. 1,425,018; Aug. 8.

Jones, Gertrude L., administratrix. (See Jones, J. E., and Newton.)

Jones, Harry A., and E. W. Struve, Parsons, Kans. Adjustable standard-length-rail spotter. No. 1,424,911; Aug. 8.

Jones, James E., deceased, and F. C. Newton, Syracuse, N. Y., G. L. Jones, administratrix, assignor to the said F. C. Newton. Funnel. No. 1,425,100; Aug. 8.

Jones, Thomas D., and J. H. Barr, deceased, Kansas City, Mo.; M. Barr, executrix. Phonograph record. No. 1,425,486; Aug. 8.

Jones, Walter W. (See Tiffany, Don G., assignor.)

Jordan, Berlen E., et al. (See Cochran, William R., assignor.)

Jordan, Eugène, Franconville, assignor to Societe L'Air Liquid (Societe Anonyme Pour L'Etude et L'Exploitation des Procedes Georges Claude), Paris, France. Means for cooling a gas. No. 1,425,019; Aug. 8.

Jordan, John C., et al. (See Cochran, William R., assignor.)

Jorgenson, George, Fargo, N. Dak. Water motor. No. 1,425,487; Aug. 8.

Josse, Emil, Berlin-Laukwitz, and W. Gensecke, Bad Homburg, Germany. Evaporating liquors. No. 1,425,020; Aug. 8.

Junkers, Hugo, Dessau, Germany. Panel rod. No. 1,424,912; Aug. 8.

Jury, William, Lansing, Mich. Footing for automobiles. No. 1,425,101; Aug. 8.

K. T. Manufacturing Company. (See Kauffman, Elias A., assignor.)

Kabureck, George, Hartford, Conn. Ash sifter. No. 1,425,488; Aug. 8.

Kaestner & Hecht Company. (See Gazda, Adolph A., assignor.)

Kahler, Frank, Dillon, Mont. Gate-operating mechanism. No. 1,424,913; Aug. 8.

Kane, Edward C., Binghamton, N. Y. Wetting and wringing machine for box-toe doublers in shoes. No. 1,424,914; Aug. 8.

Kardong, Theodore, Minneapolis, Minn. Bar bender. No. 1,425,261; Aug. 8.

Karl, Heinrich. (See Karl, William and H.)

Karl, William and H., Jersey City, N. J. Necktie-knot retainer for collars. No. 1,424,763; Aug. 8.

Karr, Alfred D., Newark, N. J., and K. D. Perkins, assignors to Audiffren Refrigerating Machine Co., New York, N. Y. Control for refrigerating machines. No. 1,424,826; Aug. 8.

Kauffman, Elias A., assignor to K. T. Manufacturing Company, Chicago, Ill. Pliers. No. 1,424,915; Aug. 8.

Kay, Frederick H., Chicago, Ill. Pencil. No. 1,425,325; Aug. 8.

Keagle, Charles R., Joliet, Ill. Mowing machine. No. 1,425,489; Aug. 8.

Kelly, James P., New York, N. Y. Cord tip. No. 1,425,384; Aug. 8.

Kelly, William M., Jersey City, N. J. Paper-feeding mechanism. No. 1,424,916; Aug. 8.

Kemp, Vern W. (See Hayes, L. B., and Kemp.)

Kendall, Edwin J., Beaver Cove, British Columbia, Canada. Box opener. No. 1,425,385; Aug. 8.

Kendall, William G., Newark, N. J. Vanity-case partition. No. 1,425,490; Aug. 8.

Kendzierski, Joseph, Minneapolis, Minn. Animal trap. No. 1,424,827; Aug. 8.

Kennedy, Anthony, Drexel Hill, assignor to The Hollar Company, Philadelphia, Pa. Safe or vault wall. No. 1,425,324; Aug. 8.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,424,917; Aug. 8.

Kennedy, Richard O., A. H. Gillespie, and R. C. Marshall, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Fold collar. No. 1,424,918; Aug. 8.

Kenny, John B., Geneva, N. Y. Fruit basket. No. 1,425,262; Aug. 8.

Kepler, Irwin F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Transmission belt. No. 1,425,021; Aug. 8.

Keppler, Frederick L., New York, N. Y. Wall structure. No. 1,425,102; Aug. 8.

Kessler, Harry C., Warrington, assignor to Breuker & Kessler Company, Philadelphia, Pa. Road map. No. 1,424,919; Aug. 8.

King, Edward C., Los Angeles, Calif. Reducing ores. No. 1,425,386; Aug. 8.

Kintzele, Julius H., A. Manheimer, and F. M. Etter, St. Louis, Mo. Washer-placing machine for rubber-heel molds. No. 1,424,920; Aug. 8.

Kintzele, Julius H. (See Manheimer, A., Etter, and Kintzele.)

Kinzbach, Frank, Humble, Tex. Casing-head attachment. No. 1,425,022; Aug. 8.

Kirstein, E., Sons Company. (See Kirstein, H. E., and Leytham, assignors.)

Kirstein, Henry E., and T. Leytham, assignors to E. Kirstein Sons Company, Rochester, N. Y. Ophthalmic mounting. No. 1,424,828; Aug. 8.

Kissinger, Herbert B., Lock Haven, Pa. Automatic circuit breaker. No. 1,424,921; Aug. 8.

Kitzmiller, George M., assignor of one-half to L. Larson, Norfolk, Va. Mail distributor. No. 1,425,387; Aug. 8.

Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Safety insertable auxiliary lever for air clamps. No. 1,425,388; Aug. 8.

Kleb, Henry, Elizabeth, N. J. Fertilizer pot. No. 1,424,829; Aug. 8.

Klombers, Max, New York, N. Y. Brief case. No. 1,425,491; Aug. 8.

Knipe, William A., Haverhill, Mass. Innersole for arch-supporting shoes. No. 1,425,263; Aug. 8.

Knittel, Paul S., assignor to American Pulverizer Company, St. Louis, Mo. Pulverizing machine. No. 1,424,922; Aug. 8.

Knittel, Paul S., assignor to American Pulverizer Company, St. Louis, Mo. Pulverizer. No. 1,424,923; Aug. 8.

Knowles, Carroll, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Surface grinder. No. 1,424,764; Aug. 8.

Koken, Walter F., St. Louis, Mo. Reclining bar clamp for barbers' chairs. No. 1,425,325; Aug. 8.

Kortenhoeven, Peter, Chicago, Ill., assignor, by mesne assignments, to Equipment Devices Company. Feed trough. No. 1,425,205; Aug. 8.

Kotterman, Eugene, Marion, assignor to International Printing Company, Indianapolis, Ind. Lock for paper boxes. No. 1,424,830; Aug. 8.

Kubicki, Andrew, assignor of one-half to M. Nalewajk, Webster, Mass. Trap. No. 1,425,023; Aug. 8.

Kuehn, Herman, New Auburn, Wis. Saw set. No. 1,425,389; Aug. 8.

Kuehner, Arthur T., Elkridge, Md. Locomotive driving box. No. 1,425,492; Aug. 8.

Kuehner, Arthur T., Elkridge, Md. Locomotive driving box. No. 1,425,493; Aug. 8.

Kuether, August, Milwaukee, Wis. Pneumatic pump. No. 1,425,494; Aug. 8.

Kuhn, Harry A., Pittsburgh, Pa. Mining machine. No. 1,425,103; Aug. 8.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,024; Aug. 8.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,326; Aug. 8.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,390; Aug. 8.

Kuz, Albert S., Chicago, Ill., assignor to Signode System, Inc. Machine for forming reenforcing girths. No. 1,424,831; Aug. 8.

Lackawanna Steel Company. (See Abbott, Franklin E., assignor.)

La Cour, Carl A., Washington, Nebr. Clamping device for demountable rims. No. 1,425,025; Aug. 8.

Lake, Wyvil H., Stoke-upon-Trent, England. Gas-reversing valve. No. 1,424,832; Aug. 8.

La Munyon, Herbert W., Cheyenne, Wyo. Portable closet. No. 1,425,391; Aug. 8.

Landis, Elvin, Massillon, Ohio. Railway crosstie. No. 1,425,104; Aug. 8.

Lapp, Grover W., Le Roy, N. Y. Producing clay bodies. No. 1,424,924; Aug. 8.

Laska, August L., Offenbach-on-the-Main, and H. H. C. Prillwitz, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. New liquid phosphoric esters and making same. No. 1,425,392; Aug. 8.

Laska, August L., Offenbach-on-the-Main, and H. H. C. Prillwitz, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. New mixed phosphoric esters and making same. No. 1,425,393; Aug. 8.

Lavarello, Prospero fu Giuseppe, Genoa, Italy. Apparatus for regulating fluid and gas-pressure between gas meter and gas consumption. No. 1,425,105; Aug. 8.

Laveen, Milton, Chicago, Ill. Knitting machine. No. 1,425,106; Aug. 8.

Lavoie, Joseph P., Montreal, Quebec, Canada. Crosshead. No. 1,424,925; Aug. 8.

Larson, Louis. (See Kitzmiller, George M., assignor.)

Larsson, Anders E., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Wheel-dressing mechanism. No. 1,424,765; Aug. 8.

Lawyer, Earnest, et al. (See Purcell, Benjamin H., assignor.)

Leary, James W. (See Gwinn, G. W., and Leary.)

Lee, John S., Newton, Iowa. Automatic boiler feed. No. 1,425,394; Aug. 8.

Lemke, August. (See Nehls, W., and Lemke.)

Leonard, Frank B., Chicago, Ill. Hat support. No. 1,424,833; Aug. 8.

Lester, William H., assignor to Illinois Watch Case Company, Elgin, Ill. Case for cigarettes and the like. No. 1,424,834; Aug. 8.

Letner, Irving E. (See Heath, Mary, assignor.)

Levinson, David, New York, N. Y. Toy. No. 1,425,107; Aug. 8.

Levy, Louis, Paris, France. Machine for molding chocolate and similar products. No. 1,425,395; Aug. 8.

Lewis, Arthur J., Stratford, Conn. Slide buckle. No. 1,425,396; Aug. 8.

Lewis, Harry A., Norristown, Pa. Heat-treating apparatus. No. 1,425,490; Aug. 8.

Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic controlling apparatus. No. 1,425,397; Aug. 8.

Leytham, Thomas. (See Kirstein, H. E., and Leytham.)

Libbey-Owens Sheet Glass Company, The. (See Rowley, Clifford A., assignor.)

Libbey-Owens Sheet Glass Company, The. (See Whittemore, James, assignor.)

Limerick, Samuel R. (See Sykes, J. P., and Limerick.)

Lincoln, Purd J., assignor to Gelders Manufacturing Company, Birmingham, Ala. Vaporizing attachment for carburetors. No. 1,425,108; Aug. 8.

Link, Philipp, Newark, N. J. Counterbalancing device for steering-wheel posts. No. 1,425,109; Aug. 8.

Linotype and Machinery Limited. (See Drake, T., and Carter, assignors.)

Littell, F. J., Machine Co. (See Stevenson, Walter N., assignor.)

Little, Howard N., and W. B. Gormely, Lockport, N. Y. Automatic lubricating device for rolling mills. No. 1,425,110; Aug. 8.

Livergood, Gerald R., Houston, Tex. Pump plunger. No. 1,425,398; Aug. 8.

Livingston, Frederick H., assignor to W. J. Vogt, Binghamton, N. Y. Phonograph construction and housing. No. 1,424,835; Aug. 8.

Locomotive Stoker Company. (See Jackson, R. E., and Yearwood, assignors.)

Loeb, Herbert B., Philadelphia, Pa. Amusement device. No. 1,425,264; Aug. 8.

Lofts, George H., Hobart, Tasmania, Australia. Alloy for use in electric heating appliances. No. 1,425,111; Aug. 8.

Loftsgaarden, Albert T., Powell, Wyo. Haystacker. No. 1,425,399; Aug. 8.

Logan, Thomas A., J. F. Brown, and C. E. Davis, Kansas City, Mo. Folding bed. No. 1,424,926; Aug. 8.

Long, Ramon, New York, N. Y. Chain pump. No. 1,425,112; Aug. 8.

Loughead, Allen H., et al. (See Loughead, Malcolm, assignor.)

Loughead, Malcolm, assignor of one-fourth to A. H. Loughead, one-fourth to J. K. Northrop, and one-fourth to A. Stadlman, Santa Barbara, Calif. Manufacturing curved forms of plywood or fibrous compositions. No. 1,425,113; Aug. 8.

Lover, William E., Findlay, Ohio. Bag and envelope. No. 1,424,836; Aug. 8.

Lover, William E., Findlay, Ohio. Combined letter sheet, check, envelope, and carbon copy. No. 1,424,837; Aug. 8.

Low Everett M., Brooklyn, N. Y. Reproducer for talking machines. No. 1,424,838; Aug. 8.

Lowe, James K., Denison, Tex. Bank-deposit receiver. No. 1,425,400; Aug. 8.

Lower, Raymond S., Geneseo, Ill. Egg beater. No. 1,425,026; Aug. 8.

Luard, Edward S., London, England. Concrete construction. No. 1,425,114; Aug. 8.

Luckenbach Processes, Inc. (See Luckenbach, Royer, assignor.)

Luckenbach, Royer, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif. Flotation process. No. 1,425,327; Aug. 8.

Luft, Sigmund, Maywood, Ill. Food product and preparing same. No. 1,424,927; Aug. 8.

Lummis, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Feeding mechanism for gas producers. No. 1,425,115; Aug. 8.

Lundin, Mattias O., Los Angeles, Calif. Liquid-level indicator. No. 1,425,116; Aug. 8.

Lustrik, Peter, Cleveland, Ohio. Extensible micrometer caliper. No. 1,425,027; Aug. 8.

Lynde, Francis G., Belvedere, England. Means for the construction of concrete slabs, walls, and other structures. No. 1,425,117; Aug. 8.

Lynde, Francis G., Belvedere, England. Concrete slab for walls or the like. No. 1,425,118; Aug. 8.

Lynde, Francis G., Belvedere, England. Concrete slab for the erection of cellular structures. No. 1,425,119; Aug. 8.

Lyon, De Witt T., assignor of one-half to F. Mellish, Chicago, Ill. Ventilating device. No. 1,425,028; Aug. 8.

M. S. Company. (See Nittel, Frederick W., assignor.)

McClelland, Charles S., Pittsburgh, Pa. Pump. No. 1,424,928; Aug. 8.

McCoy, Joseph B. (See Birchman, A., Matter, and McCoy.)

McCrudden, John C. R., Hurstville, near Sydney, New South Wales, Australia. Magazine for machine guns. No. 1,425,120; Aug. 8.

McFeaters, George H., Johnstown, Pa. Grinder. No. 1,425,121; Aug. 8.

McGill Manufacturing Company. (See Despard, Victor R., assignor.)

McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. No. 1,424,766; Aug. 8.

McIntyre, John M., Bad Axe, Mich. Bean buncher. No. 1,424,839; Aug. 8.

McKechnie, James, and T. Fender, assignors to Vickers Limited, Westminster, London, England. Broaching and surface finishing of holes or the like. No. 1,425,122; Aug. 8.

McKinney, Lee R., Linton, Ind. Tongue-operated lock for truck wheels. No. 1,424,929; Aug. 8.

McLoughlin, Francis J., Brooklyn, N. Y. Typewriter. No. 1,425,029; Aug. 8.

McNamee, Thomas, Philadelphia, Pa. Bottle closure. No. 1,425,401; Aug. 8.

MacKenzie, Philip, San Francisco, Calif. Combined drill and valve grinder. No. 1,425,402; Aug. 8.

Maginn, Edward F., et al. (See Owen, Robert H., assignor.)

Magno Storage Battery Corporation. (See Meyer, S. M., and James, assignor.)

Mahoney, Patrick H., Chicago, Ill. Gasket for handhole plates for water-tube boilers. No. 1,424,930; Aug. 8.

Majempsey, John, Kansas City, Kans. Timer cover. No. 1,425,403; Aug. 8.

Manhattan Electrical Supply Company. (See Schwartz, Edward, assignor.)

Manheimer, Abraham, F. M. Etter, and J. H. Kintzele, St. Louis, Mo. Washer-placing machine for rubber-heel molds. No. 1,424,931; Aug. 8.

Manheimer, Abraham. (See Kintzele, J. H., Manheimer, and Etter.)

Manson, Ray H., assignor to The Stromberg Carlson Telephone Manufacturing Company, Rochester, N. Y. Impulse transmitter. No. 1,425,123; Aug. 8.

Markem Machine Company. (See Putnam, Fred A., assignor.)

Markgraf, Marc G., Brooklyn, N. Y. Phonograph envelope and making the same. No. 1,424,840; Aug. 8.

Marsh, Kenneth E., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,424,841; Aug. 8.

Marshall, Albert T., assignor to Automatic Refrigerating Company, Hartford, Conn. Refrigerating apparatus. No. 1,425,265; Aug. 8.

Marshall, Albert T., assignor to Automatic Refrigerating Company, Hartford, Conn. Refrigerating system. No. 1,425,266; Aug. 8.

Marshall, Albert T., assignor to Automatic Refrigerating Company, Hartford, Conn. Refrigerating machine. No. 1,425,267; Aug. 8.
Marshall, Richard C. (See Kennedy, R. O., Gillespie, and Marshall.)
Massa, Robert F., New York, N. Y. Stuffing box. No. 1,425,268; Aug. 8.
Maszczyk, Alexander, Milwaukee, Wis. Coupling. No. 1,425,206; Aug. 8.
Matheson, Howard W., and G. E. Grattan, Shawinigan Falls, assignors to Shawinigan Laboratories Limited, Montreal, Quebec, Canada. Manufacture of acetic anhydride. No. 1,425,500; Aug. 8.
Mathy, Maurice, Liege, Belgium. Production of bottles or other vessels and apparatus therefor. No. 1,425,124; Aug. 8.
Matsui, Chiyosaburo. (See Sato, R., and Matsui.)
Matter, Gustave O. (See Birchman, A., Matter, and McCoy.)
Matthews, Leo A., Binghamton, N. Y. Bench dog. No. 1,425,842; Aug. 8.
Maul, Henry C., assignor to The Michigan Stove Company, Detroit, Mich. Hotel broiler. No. 1,425,501; Aug. 8.
Medici, Charles O. (See Medici, Joseph L. and C. O.)
Medici, Joseph L. and C. O., Detroit, Mich. Condiment holder. No. 1,425,328; Aug. 8.
Mellblom, Adolph A., Chicago, Ill. Spark plug. No. 1,425,329; Aug. 8.
Mellish, Frank. (See Lyon, De Witt T., assignor.)
Meneley, Fred L. (See Girard, L. B., and Meneley.)
Menk, George L., St. Louis, Mo. Air cooling and circulating device. No. 1,424,843; Aug. 8.
Mergenthaler Linotype Company. (See Beck, James H., assignor.)
Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
Merrill, Alfred N., Oxford, N. J. Clutch lock. No. 1,425,404; Aug. 8.
Merrill, Joseph J., Chicago, Ill., assignor to Corn Products Refining Company. Apparatus for manufacturing dextrin. No. 1,425,497; Aug. 8.
Mesinger, Frederick, New York, N. Y. Drive belt. No. 1,424,767; Aug. 8.
Mesinger, Frederick, New York, N. Y. Link belt. No. 1,424,768; Aug. 8.
Meyer, Henry R., Cedar Rapids, Iowa. Folding ironing board. No. 1,425,030; Aug. 8.
Meyer, Svend M., and W. James, Brooklyn, assignor to Magno Storage Battery Corporation, New York, N. Y. Alley. No. 1,425,330; Aug. 8.
Meyer, William H. (See Ireland, W. S., and Meyer.)
Michigan Stove Company, The. (See Maul, Henry C., assignor.)
Michna, Nicholas A., Chicago, Ill. Winter inclosure for automobiles. No. 1,425,031; Aug. 8.
Miehle Printing Press and Manufacturing Company, The. (See Dudley, Edward F., assignor.)
Milito, Peter, assignor of one-half to S. Di Giacomo, Utica, N. Y. Musical instrument. No. 1,425,032; Aug. 8.
Miller, Arthur W., Roselle Park, and W. L. Conklin, Boundbrook, N. J., assignors to Pathé Exchange, Inc., New York, N. Y. Automatic electric film cutter. No. 1,425,405; Aug. 8.
Miller, Grace V., Oakland, Calif. Comb. No. 1,425,269; Aug. 8.
Milner, Bert B., New York, N. Y. Corrugated metal plate. No. 1,425,207; Aug. 8.
Milner, Bert B., New York, N. Y. Manufacturing corrugated metal plates. No. 1,425,208; Aug. 8.
Mills, William S., Trumbull and H. E. Bisaillon, Bridgeport, Conn. Stop-motion device. No. 1,424,844; Aug. 8.
Millsaps, Daniel W., assignor to Automatic Mail Exchange Co., Washington, D. C. Mail-bag receiver. No. 1,425,406; Aug. 8.
Mitchell, Irvie D., Rose, Iowa. Draft equalizer. No. 1,425,407; Aug. 8.
Mitchell, William S. (See Coyle, A. A., and Mitchell.)
Moffatt, Ansil, Indianapolis, Ind., assignor to E. H. Wolcott, trustee for associate underwriter, and said Moffatt. Vegetable albuminoid and producing it. No. 1,425,033; Aug. 8.
Montgomery, Oran W., Lakewood, Ohio. Portable electric liquid heater. No. 1,425,034; Aug. 8.
Mood, Philip G., Dugger, Ind. Rail tie and fastener. No. 1,425,125; Aug. 8.
Moon, Claude E. (See Farrell, R. P., and Moon.)
Moran, William F., assignor to V. B. M. Company, Chicago, Ill. Washing-machine-driving mechanism. No. 1,425,209; Aug. 8.
Moreau, Marcel Ell, San Francisco, Calif. Solar heating device. No. 1,424,932; Aug. 8.
Morgan & Wright. (See Abbott, Adrian O., jr., assignor.)
Morgan Construction Company. (See Lummis, Charles W., assignor.)
Morgan, Robert F. (See Beiswinger, W. C., and Morgan.)
Morgan, S., Smith Company. (See Gibbs, Eugene U., assignor.)
Morgan, Saxton J., Albany, Wis. Magazine brace. No. 1,425,270; Aug. 8.
Morrison, Montford, Chicago, Ill. Hysteresis power transmitter and brake for phonograph motor mechanisms. No. 1,424,769; Aug. 8.
Moses, Max H., San Francisco, Calif. Tire pump. No. 1,425,126; Aug. 8.
Moses, Max H., San Francisco, Calif. Motor vehicle bumper and fender. No. 1,425,127; Aug. 8.
Mosman, Earnest. (See Subera, L. A., and Mosman.)
Mottler, Walter F., El Campo, Tex. Cotton chopper. No. 1,425,035; Aug. 8.
Mükden, Fritz G., Cleveland, Ohio. Door catch. No. 1,425,271; Aug. 8.
Murphey, James A., Philadelphia, Pa. Automobile lock. No. 1,425,408; Aug. 8.
Murphy, Walter P., New York, N. Y. Hopper-car door. No. 1,425,210; Aug. 8.
Murray, John B., Wilmington, Ill. Rail joint. No. 1,425,036; Aug. 8.
Myers, Frederick W., assignor of one-half to F. E. Pieper, Des Moines, Iowa. Antiskid and traction device. No. 1,425,037; Aug. 8.
Nadell, Abraham M., Revere, Mass. Garment fastener. No. 1,425,038; Aug. 8.
Najarian, Herand K., Salt Lake City, Utah. Screening machine and vibrating hammer therefor. No. 1,425,039; Aug. 8.
Nalewajk, Mike. (See Kubicki, Andrew, assignor.)
Napier, D., & Son, Limited. (See Rowledge, Arthur J., assignor.)
Nashua Machine Company. (See Sabin, John, assignor.)
National Cash Register Company, The. (See Phillips, Frederick, assignor.)
National Pneumatic Company. (See Gottschalk, Albert, assignor.)
National Retarder Company. (See Stagner, Bert A., assignor.)
Nehls, Wilhelm, and A. Lemke, Maseppa, Minn. Plow attachment. No. 1,425,409; Aug. 8.
Neikirk, John O., Lombard, assignor to Rodger Ballast Car Company, Chicago, Ill. Railway car. No. 1,424,770; Aug. 8.
Nelson, John, Ottawa, Kans. Display rail. No. 1,425,211; Aug. 8.
Nelson, Nels A., assignor to Baco Electric Co., Bode, Iowa. Electric heating iron. No. 1,425,040; Aug. 8.
Neuman, Clarence. (See Johnson, O., and Neuman.)
New Jersey Patent Company. (See Constable, John P., assignor.)
New Jersey Patent Company. (See Edison, Thomas A., assignor.)
Newman, Mary J., Fort Smith, Ark. Trap. No. 1,425,410; Aug. 8.
Newton, Frank C. (See Jones, J. E., and Newton.)
Newton, Herbert B., Brookline, Mass. Hose-leg supporter. No. 1,424,771; Aug. 8.
Nicholson, W. H., & Co. (See Beiswinger, W. C., and Morgan, assignor.)
Nielsen, Chris, Ruthven, Iowa. Farm gate. No. 1,425,411; Aug. 8.
Niles-Bement-Pond Company. (See Cullen, J. K., and Sears, assignors.)
Niles-Bement-Pond Company. (See Cullen, James K., assignor.)
Nittel, Frederick W., assignor to M. S. Company, Attleboro, Mass. Making watch-chain swivels. No. 1,425,128; Aug. 8.
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Perforating machine. No. 1,425,041; Aug. 8.
Nolan, William E., Wilkinsburg, Pa. Transformation. No. 1,424,845; Aug. 8.
Nolde & Horst Co., The. (See Robinson, Frank W., assignor.)
Northrop, John K., et al. (See Loughead, Malcolm, assignor.)
Norwood, Harry Y., assignor to Taylor Instrument Cos., Rochester, N. Y. Valve mechanism. No. 1,425,412; Aug. 8.
Noyes, William S., Chicago, Ill. Reducing-valve apparatus. No. 1,424,846; Aug. 8.
Nutini, Adolfo, Verona, Italy. Gear wheel. No. 1,425,042; Aug. 8.
O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Gas stove. No. 1,425,043; Aug. 8.
Older, Roy B., assignor to Allith-Prouty Company, Danville, Ill. Automobile bumper. No. 1,425,272; Aug. 8.
Olson, Charles W., assignor to Continental Motors Corporation, Detroit, Mich. Grinding machine. No. 1,425,331; Aug. 8.
Örström, Gustaf, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden. Folding device for bag or capsule making machines. No. 1,425,044; Aug. 8.
Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Company, Buffalo, N. Y. Projection apparatus. No. 1,424,847; Aug. 8.
Owen, John D., Harriman, Tenn. Vehicle-handling apparatus. No. 1,425,045; Aug. 8.
Owen, Robert H., assignor of one-third to E. F. Maginn and one-sixth to M. H. Gleason, Butte, Mont. Cylinder for thrashing machines. No. 1,424,933; Aug. 8.
P & M Company, The. (See Warr, Harold G., assignor.)
Pabodie, Robert J., Maywood, Ill., assignor to The Griscom Russell Company, New York, N. Y. Storage heater. No. 1,425,273; Aug. 8.
Packard, Alden H., Woburn, assignor of one-half to J. D. Robbins, Boston, Mass. Gate lifting and releasing mechanism for elevators. No. 1,425,332; Aug. 8.
Paddison, Eugene W., Mount Airy, N. C. Jeweler's loupe. No. 1,424,848; Aug. 8.

Pagé, Victor W., New York, N. Y. Adjustable foot pedal. No. 1,425,413; Aug. 8.
Pagé, Victor W., New York, N. Y. Brake drum. No. 1,425,414; Aug. 8.
Paige, James H., Manchester, N. H. Cover for preserving jars. No. 1,425,212; Aug. 8.
Palmer-Bee Company. (See Simpson, William E., assignor.)
Palmer, James A., Jamaica Plain, Mass. Liquid polish for metallic and other surfaces. No. 1,425,046; Aug. 8.
Palmgren, Carl A., Chicago, Ill. Drill chuck. No. 1,425,213; Aug. 8.
Pape, Herman G., New York, N. Y. Receiver earpiece. No. 1,425,047; Aug. 8.
Paper Products Machine Company. (See Howard, Charles H., assignor.)
Parco, John, Jamestown, Calif. Transmission. No. 1,425,214; Aug. 8.
Parker, Lee H., and H. W. Day, Wollaston, assignors to Spray Engineering Company, Boston, Mass. Method of and apparatus for applying coating. No. 1,425,333; Aug. 8.
Parkinson, John F., Palo Alto, Calif. Extension-top step-ladder. No. 1,425,274; Aug. 8.
Parsons, Earl B. (See Haines, F. H., and Parsons.)
Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Dispensing machine. No. 1,424,772; Aug. 8.
Partin, Albert, Talkeetna, Alaska. Wrench. No. 1,425,415; Aug. 8.
Paterson, May H. (See Paterson, William and M. H.)
Paterson, William and M. H., Oakland, Calif. Sidehill orchard ladder. No. 1,424,934; Aug. 8.
Pathé Exchange, Inc. (See Chanler, Gaston L., assignor.)
Pathé Exchange, Inc. (See Miller, A. W., and Conklin, assignors.)
Paulsen, Christian P., Seattle, Wash. Three-in-one clamp and vise combined. No. 1,425,275; Aug. 8.
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Firearm. No. 1,424,773; Aug. 8.
Peacock, Samuel, Wheeling, assignor of sixty per cent to C. W. Waggoner, Morgantown, W. Va. Producing alkali-metal silicates in blast furnaces. No. 1,425,048; Aug. 8.
Pearl, Herman, Elmira, N. Y. Adjustable container for teapots. No. 1,424,774; Aug. 8.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Latching mechanism. No. 1,424,936; Aug. 8.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Pitman connection. No. 1,424,935; Aug. 8.
Pedroarena, Urbano, and G. C. Hoffman, Gardnerville, Nev. Traction wheel. No. 1,425,334; Aug. 8.
Penrod, John, and R. D. Thompson, Okmulgee, Okla. Well pump. No. 1,425,276; Aug. 8.
Perkins, Karl D. (See Karr, A. D., and Perkins.)
Perlberg, Frank E. (See Anglemeyer, C. O., and Perlberg.)
Persons, Charles A., Worcester, Mass. Bicycle pedal. No. 1,425,215; Aug. 8.
Peters, Frank R., New York, N. Y., assignor to Franklin Railway Supply Company. Controlling mechanism for locomotive booster motors. No. 1,425,277; Aug. 8.
Petersen, Olaf W., assignor to Petersen Stoker Company, Buffalo, N. Y. Grate. No. 1,424,937; Aug. 8.
Petersen Stoker Company. (See Petersen, Olaf W., assignor.)
Peterson, Edwin L., Pittsburgh, Pa. Hand truck. No. 1,424,938; Aug. 8.
Peterson, Johann G., Hartford, Conn. Electrical attachment plug. No. 1,425,049; Aug. 8.
Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Carton. No. 1,425,335; Aug. 8.
Petrarca, John P., Arctic, R. I. Pattern for shoe making. No. 1,425,278; Aug. 8.
Phelps, Spencer H., assignor, by mesne assignments, to Reeman Tractor Company, Minneapolis, Minn. Wheel. No. 1,425,129; Aug. 8.
Phillips, Frederick, Brixton, London, England, assignor to The National Cash Register Company, Dayton, Ohio. Machine for printing and issuing tickets and the like. No. 1,425,050; Aug. 8.
Phoenix Knitting Works. (See Friedlander, Arnold, assignor.)
Pickard, Winford D., Norman, Okla. Glare guard for windshields for automobiles, etc. No. 1,424,939; Aug. 8.
Pickard, Winford D., Norman, Okla. Rear-axle attachment for automobiles. No. 1,424,940; Aug. 8.
Pickett, Aaron T., Detroit, Mich. Electric signal alarm. No. 1,425,279; Aug. 8.
Pieper, F. E. (See Myers, Frederick W., assignor.)
Pierson, William A., Saratoga Springs, N. Y. Machine for marking articles. No. 1,425,280; Aug. 8.
Pirwitz, Friedrich A. G., Rochester, N. Y. Gauging and measuring instrument. No. 1,424,941; Aug. 8.
Pittsburgh Transformer Company. (See Horelick, Samuel, assignor.)
Plauson, Hermann, Hamburg, Germany. Manufacture of vinyl halides. No. 1,425,130; Aug. 8.
Porter, Donald B., San Francisco, Calif. Phonograph record. No. 1,425,281; Aug. 8.
Posson, Edward, Chicago, Ill. Door holder. No. 1,425,282; Aug. 8.
Potter, James E., Providence, R. I. Button. No. 1,425,131; Aug. 8.
Pratt & Whitney Company. (See Knowles, Carroll, assignor.)
Pratt & Whitney Company. (See Larsson, Anders E., assignor.)
Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Storage-battery locomotive. No. 1,424,849; Aug. 8.
Pratt, Frederick J., Detroit, Mich. Grinding gauge. No. 1,425,283; Aug. 8.
Pratt, Frederick J., Detroit, Mich. Gauge for cylinders. No. 1,425,284; Aug. 8.
Prevot, Frederic P., assignor to The Read Chain Manufacturing Co., Bridgeport, Conn. Tassel. No. 1,425,336; Aug. 8.
Price, William T. (See Crosby, Arthur P., assignor.)
Prihoda, Fred F., Charleston, W. Va. Dispensing holder. No. 1,425,416; Aug. 8.
Prillwitz, Hans H. C. (See Laska, A. L., and Prillwitz.)
Priskey, John, Detroit, Mich. Ice-cream remover. No. 1,425,337; Aug. 8.
Pruitt, August M., Cleveland, Ohio. Bottle carrier. No. 1,425,417; Aug. 8.
Purcell, Benjamin H., assignor of one-third to E. Lawyer and one-third to F. I. Honderik, Terre Haute, Ind. Universal carrier chain. No. 1,424,850; Aug. 8.
Putnam, Fred A., Keene, N. H., assignor to Markem Machine Company, Boston, Mass. Marking machine. No. 1,425,285; Aug. 8.
Quarles, Louis, Milwaukee, Wis. Grinder. No. 1,425,286; Aug. 8.
Quesenberry, Price. (See Bidwell, Earl E., assignor.)
Quicksafe Manufacturing Company. (See Waller, R. H., and Jackson, assignors.)
Quinn, Patrick J., et al. (See Bulski, Andrew, assignor.)
Quost, Jacques, Paris, France. Mold for building chimneys of reenforced concrete. No. 1,424,775; Aug. 8.
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Ramage, Thomas, The Pas, Manitoba, Canada. Automobile appliance. No. 1,424,942; Aug. 8.
Ramsay, Erskine, Birmingham, Ala. Automatic rolling dump. No. 1,425,051; Aug. 8.
Rasmussen, Alvin C. (See Insley, W. H., and Rasmussen.)
Rattan Mfg. Co., The. (See Hatheway, George L., assignor.)
Ray, William R., San Francisco, Calif. High-pressure automatic burner governor. No. 1,425,338; Aug. 8.
Rebsamen, Julius, Chicago, Ill. Refrigeration. No. 1,425,216; Aug. 8.
Rector, Enoch, New York, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company Stamford, Conn. Carburetor. No. 1,425,339; Aug. 8.
Redlon, Osgood M., Bath, Me. Adjustable roof collar. No. 1,425,418; Aug. 8.
Reece Button Hole Machine Company, The. (See Reece, Franklin A., assignor.)
Reece, Franklin A., Chestnut Hill, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing machine. No. 1,424,851; Aug. 8.
Reed, Earl W., Sunnyside, Wash. Motor-driven buck rake. No. 1,424,943; Aug. 8.
Reed, Russell F., San Francisco, Calif. Matrix cleaner. No. 1,425,132; Aug. 8.
Reenstrom, Walter, Chicago, Ill. Ventilator. No. 1,424,944; Aug. 8.
Reenstrom, Walter, Chicago, Ill. Forming hoods and aprons for ventilators. No. 1,424,945; Aug. 8.
Reflector & Illuminating Co. (See Herron, James C., assignor.)
Regulski, Frank, Brooklyn, assignor to Herman Scheuer & Sons, New York, N. Y. Hand bag. No. 1,425,217; Aug. 8.
Reid, Chester C., New York, N. Y. Kite. No. 1,425,419; Aug. 8.
Reisszeugfabrik Eichmuller & Co. (See Renzelberg, August, assignor.)
Rejsa, Edward A., Cedar Rapids, Iowa. Window-shade bracket. No. 1,425,052; Aug. 8.
Remington Typewriter Company. (See Seib, George A., assignor.)
Rennie, Arthur L., Jamaica, N. Y. Brake-band lining. No. 1,424,852; Aug. 8.
Renzelberg, August, assignor to Firm Reisszeugfabrik Eichmuller & Co., Nuremberg, Germany. Straight-line guide for the handles of compasses. No. 1,425,133; Aug. 8.
Rex Manufacturing Company. (See Hull, Matthew R., assignor.)
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Doffing device for spoolers. No. 1,425,053; Aug. 8.
Ricardo, Harry R., London, England. Hydrocarbon engine. No. 1,425,054; Aug. 8.
Riccio, Michael D. S., Jamestown, N. Y. Fire alarm. No. 1,425,287; Aug. 8.
Rice, Samuel J., Chicago, Ill. Automobile jack. No. 1,425,134; Aug. 8.
Richter, Benjamin. (See Barron, Langdon S., assignor.)

Ritchie, W. C., & Company. (See Stock, Julius A., assignor.)
Robbins, J. Donald. (See Packard, Alden H., assignor.)
Roberts, Herbert L., assignor to Business Systems Limited, Toronto, Ontario, Canada. Autographic register. No. 1,424,946; Aug. 8.
Robinson, Frank W., assignor to The Nolde & Horst Co., Reading, Pa. Tucking mechanism for knitting machines. No. 1,425,288; Aug. 8.
Robinson, William C., Baltimore, Md. System for disposal of bilge water and recovery of sludge. No. 1,425,289; Aug. 8.
Rodger Ballast Car Company. (See Neikirk, John O., assignor.)
Rodgers, Hugh, Sullivan, Ind. Rail bender. No. 1,425,135; Aug. 8.
Roever, Julius, Richmond Hill, N. Y. Bed. No. 1,424,853; Aug. 8.
Rogers, Edward J., Anacortes, Wash. Sewing-machine needle plate. No. 1,424,854; Aug. 8.
Rohrs, Friederich W., Rosedale, Md. Motor fuel. No. 1,425,136; Aug. 8.
Rose, Elon J., Portland, Oreg. Dental crown structure. No. 1,425,055; Aug. 8.
Rosenfeld, Mortimer C. (See Anthony, Marcus O., assignor.)
Rossiter, George A., Brooklyn, assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,425,056; Aug. 8.
Round, John J., Wakefield, Mass. Perpetual calendar. No. 1,425,137; Aug. 8.
Rowledge, Arthur J., assignor to D. Napier & Son, Limited, London, England. Internal-combustion engine. No. 1,425,057; Aug. 8.
Rowley, Ilford A., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for drawing wire glass. No. 1,425,218; Aug. 8.
Royal Typewriter Company, Inc. (See Hess, Edward B., assignor.)
Roystone, William H., New York, N. Y. Toilet article. No. 1,425,138; Aug. 8.
Rumsey, William W., Milwaukee, Wis. Safety light. No. 1,425,139; Aug. 8.
Rumsey, William W., Milwaukee, Wis. Safety light. No. 1,425,140; Aug. 8.
Russell, Samuel G., assignor to The Shakespeare Company, Kalamazoo, Mich. Fishing reel. No. 1,425,141; Aug. 8.
Ryan, Arthur F. (See Wellington, A. W., and Ryan.)
Ryder, John H., Brooklyn, assignor to Standard Wire Tire Corporation, New York, N. Y. Tire. No. 1,424,855; Aug. 8.
Sabin, John, assignor to Nashua Machine Company, Inc., Nashua, N. H. Steam trap. No. 1,425,340; Aug. 8.
Safety Car Heating & Lighting Company, The. (See Tabb, Warner T., assignor.)
Salstrom, Axel R., Jersey City, N. J. Razor-blade sharpener. No. 1,425,290; Aug. 8.
Sanders, James E., Gordon, Ga. Fire screen. No. 1,425,341; Aug. 8.
Sapp, Thomas, London, England. Sign and advertising device. No. 1,425,142; Aug. 8.
Sato, Ryuji, and C. Matsui, New York, N. Y. Rowing race. No. 1,425,058; Aug. 8.
Scarrie, Stanley M., Decorah, Iowa. Self-cleaning rake. No. 1,425,219; Aug. 8.
Schaller, William F., San Francisco, Calif. Baker's oven. No. 1,425,342; Aug. 8.
Scheib, Georg, Berlin, Germany. Means for injecting liquid or gaseous matter under pressure into meat or the like. No. 1,425,143; Aug. 8.
Scheid, Richard, St. Louis, Mo. Muffler cut-out. No. 1,424,776; Aug. 8.
Schellberg, Oscar B., New York, N. Y. Medical apparatus for use in proctotherapy. No. 1,425,420; Aug. 8.
Scheur, Herman, & Sons. (See Reguiski, Frank, assignor.)
Schleifer, Riccardo, Milan, Italy. Machine for combing textile fibers. No. 1,425,059; Aug. 8.
Schmick, Henry J., Williamsport, Pa. Toothed gearing. No. 1,425,144; Aug. 8.
Schöndeling, Wilhelm, Essen-on-the-Ruhr, Germany. Process of and device for quenching coke in narrow containers. No. 1,424,777; Aug. 8.
Schröder, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Weighing machine provided with a printing apparatus. No. 1,425,421; Aug. 8.
Schumann, Alfred G., Baltimore, Md. Oil or gas burner. No. 1,425,343; Aug. 8.
Schwartz, Edward, assignor to Manhattan Electrical Supply Company, Inc., New York, N. Y. Electric toaster. No. 1,425,344; Aug. 8.
Scott, Field, et al. (See Crippen, Henry M., assignor.)
Scott Paper Company. (See Parsons, Philip D., assignor.)
Sea, Frederick W., Chicago, Ill. Phonograph-record album. No. 1,424,780; Aug. 8.
Sea, Frederick W., Chicago, Ill. Phonograph-record album. No. 1,424,781; Aug. 8.
Sea, Philip N., Chicago, Ill. Phonograph-record album. No. 1,424,778; Aug. 8.
Sea, Philip N., Chicago, Ill. Phonograph-record album. No. 1,424,779; Aug. 8.
Seagrave, Frederic S., Detroit, Mich. Propelling attachment for children's vehicles. No. 1,425,220; Aug. 8.
Sears, Willard T. (See Cullen, J. K., and Sears.)
Segal Metal Products Company. (See Segal, Samuel, assignor.)
Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Mortise lock. No. 1,425,060; Aug. 8.
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,425,291; Aug. 8.
Shakespeare Company, The. (See Russell, Samuel G., assignor.)
Shaw, Harold F. (See Ambler, G. B., and Shaw.)
Shawinigan Laboratories Limited. (See Matheson, H. W., and Grattan, assignors.)
Shedd, Edward W., administrator. (See Wiswall, Alvah.)
Sherman, Walter F., Elsmere, N. Y. Shears. No. 1,425,061; Aug. 8.
Shively, Donald O., Houston, Tex. Safety appliance for street cars. No. 1,425,062; Aug. 8.
Signode System, Inc. (See Kux, Albert S., assignor.)
Simonds, Chauncey A. (See Dean, C. V., and Simonds.)
Simpson, William E., assignor to Palmer-Bee Company, Detroit, Mich. Conveyer and mold separator. No. 1,424,947; Aug. 8.
Singer Manufacturing Company, The. (See Jacques, George W., assignor.)
Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
Skayef Ball Bearing Company, The. (See Wikander, Oscar R., assignor.)
Skublin, Charles P., Detroit, Mich. Lock. No. 1,425,221; Aug. 8.
Sladden, Sidney C., New York, N. Y. Fluid tractor motor. No. 1,425,292; Aug. 8.
Slauter, George W., Dixon, Ill. Self-adjusting dump bucket. No. 1,425,063; Aug. 8.
Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Fuel distributor. No. 1,425,145; Aug. 8.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,293; Aug. 8.
Smith, Watson R., Jackson, Mich. Spring structure. No. 1,425,345; Aug. 8.
Smith, William H., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,424,782; Aug. 8.
Snaman, William E., Pittsburgh, Pa. Shock absorber. No. 1,424,783; Aug. 8.
Sociedad Hidro-Metalurgica. (See Bardt, Hans, assignor.)
Societe L'Air Liquide (Societe Anonyme Pour L'Etude et L'Exploitation Des Procedes Georges Claude). (See Jordan, Eugène, assignor.)
Sonneman, William F. (See Baker, W. E., and Sonneman.)
Sparrow, Arthur, assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum arrangement. No. 1,425,064; Aug. 8.
Spencer Lens Company. (See Ott, H. N., and Bufton, assignors.)
Sperry Gyroscope Company, The. (See Day, Edwin W., assignor.)
Spery, Charles F. and J. H., Chicago, Ill. Radiator core. No. 1,425,146; Aug. 8.
Sperry, Joseph H. (See Sperry, Charles F. and J. H.)
Spicer, Charles W., Towson, Md. Punching machine. No. 1,424,856; Aug. 8.
Sprague, Albert, Longmont, Colo. Ground-treating implement. No. 1,424,857; Aug. 8.
Spray Engineering Company. (See Parker, L. H., and Day, assignors.)
Stadlman, Anthony, et al. (See Laughead, Malcolm, assignor.)
Stagner, Bert A., Pittsburgh, Pa., assignor, by mesne assignments, to National Retarder Company, Chicago, Ill. Growing of yeast. No. 1,425,065; Aug. 8.
Standard Wire Tire Corporation. (See Ryder, John H., assignor.)
Starr, John A., Mayville, Wis. Mail-bag mechanism. No. 1,424,858; Aug. 8.
Sterling Varnish Company, The. (See Todd, James, assignor.)
Stevens, William C., Milwaukee, Wis., assignor, by mesne assignments, to Vulcan Motor Devices Company. Gear-shifting mechanism. No. 1,424,784; Aug. 8.
Stevenson, Walter N., Evanston, assignor to F. J. Littell Machine Co., Chicago, Ill. Feeding mechanism for work pieces. No. 1,424,785; Aug. 8.
Stickney, Charles A., St. Paul, Minn. Pencil. No. 1,425,066; Aug. 8.
Stock, Julius A., Cicero, assignor to W. C. Ritchie & Company, Chicago, Ill. Necking machine. No. 1,425,294; Aug. 8.
Stoehr, Rolla G. (See Weaver, I. A., and Stoehr.)
Stoen, Ole A., Balsam Lake, Wis. Silo. No. 1,425,346; Aug. 8.
Stone, Bert E., Plattsburg, N. Y. Hose stand. No. 1,425,067; Aug. 8.
Stone, Joseph D., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation. Condenser. No. 1,424,786; Aug. 8.
Stoop, William J., Wheeling, W. Va. Arch for the fire boxes of boilers. No. 1,424,948; Aug. 8.
Stork, William B., Andover, Mass. Automatic steam stop valve. No. 1,424,949; Aug. 8.

Stromberg Carlson Telephone Manufacturing Company. (See Manson, Ray H., assignor.)
Strong, Edward P. (See Davies, D. B., and Strong.)
Strong, George, London, England, assignor, by mesne assignments, to Joseph Dixon Crucible Company, Jersey City, N. J. Showcase. No. 1,425,347; Aug. 8.
Strout, Elmer J., Utica, Ill. Cotter. No. 1,425,422; Aug. 8.
Struve, Edward W. (See Jones, H. A., and Struve.)
Stuart, Edwin T., assignor of one-half to C. R. Cauhn, West Fork, Ark. Vermin-destroying nest egg. No. 1,425,348; Aug. 8.
Subers, Lawrence A., Lakewood, and E. Mosman, Cleveland, Ohio; said Mosman assignor to said Subers. Machine for constructing a laminated cohesive interlaid fabric. No. 1,425,147; Aug. 8.
Subers, Lawrence A., Lakewood, Ohio. Hose of predetermined action under pressure. No. 1,425,148; Aug. 8.
Sullivan, Stephen, et al. (See Bulski, Andrew, assignor.)
Summerfield, Frederick W., Toledo, Ohio. Beehive frame. No. 1,425,295; Aug. 8.
Superheater Corporation Limited, The. (See Thom, Robert A., assignor.)
Superior Manufacturing Company. (See Woock, Walter R., H. J., and E. M., assignors.)
Sutherland Collapsible Paper Box Company. (See Sutherland, Stafford F., assignor.)
Sutherland, Stafford F., assignor to Sutherland Collapsible Paper Box Company, Philadelphia, Pa. Collapsible folding box. No. 1,425,068; Aug. 8.
Swanson, Peter, and A. Carlson, Ely, Minn. Auxiliary car step. No. 1,425,149; Aug. 8.
Sykes, John P., Wallingford, and S. R. Limerick, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Jig for assembling locomotive frames. No. 1,425,296; Aug. 8.
Tabb, Warner T., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. Signal apparatus. No. 1,424,859; Aug. 8.
Taliaferro, Thomas L., Chicago, Ill. Bottle closure. No. 1,425,349; Aug. 8.
Tanner, Harry L., Brooklyn, N. Y. Transmission system for automobiles. No. 1,424,860; Aug. 8.
Taylor, Charles B., Winona Lake, Ind. Corner reinforcement for cartons. No. 1,425,069; Aug. 8.
Taylor Instrument Cos. (See Norwood, Harry Y., assignor.)
Taylor, Peter, Ottumwa, Iowa. Tool. No. 1,424,861; Aug. 8.
Tebbetts, L. B., & Company (See Henry, Jesse P., assignor.)
Thom, James C., Chicago, Ill., assignor to Combination Machine Company, New York, N. Y. Sheet-feeding method and means. No. 1,425,350; Aug. 8.
Thom, Robert A., Manchester, England. Return end and making same. No. 1,425,222; Aug. 8.
Thom, Robert A., Manchester, assignor to The Superheater Corporation Limited, London, England. Return end and making same. No. 1,425,495; Aug. 8.
Thomas, Joseph, Aberdeen, Wash. Vapor bath. No. 1,425,423; Aug. 8.
Thompson, Robert D. (See Penrod, J., and Thompson.)
Thompson, Thomas. (See James, Thomas J., assignor.)
Thornton, Frederick, Huntington, W. Va., assignor to Thornton Trolley Wheel Co., Ashland, Ky. Trolley harp. No. 1,424,950; Aug. 8.
Thornton Trolley Wheel Co. (See Thornton, Frederick, assignor.)
Tibbals, Walter H., Syracuse, N. Y. Hand fire extinguisher. No. 1,425,297; Aug. 8.
Tiffany, Don G., Newark, assignor to W. W. Jones, Flint, Mich. Vehicle drive transmission system. No. 1,424,951; Aug. 8.
Todd, James, assignor to The Sterling Varnish Company, Pittsburgh, Pa. Rubber tire. No. 1,424,787; Aug. 8.
Toledo Standard Commutator Company, The. (See Van Dusen, Charles A., assignor.)
Townsend, Henry A. (See Hall, John A., assignor.)
Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Housing for vertical screw jacks. No. 1,424,952; Aug. 8.
Townsend, Ralph V. (See Zabel, A. F., and Townsend.)
Transmeier, Ernest A., Lawrence, Kans. Combined barrow and scraper. No. 1,425,424; Aug. 8.
Treat, Arthur R., Gypsum, Kans. Wood-splitting machine. No. 1,425,298; Aug. 8.
Turnquist, Alexander N., Glenellyn, Ill. Garment fastener. No. 1,424,953; Aug. 8.
Ullrich, Rudolph, Newark, N. J. Stylographic fountain pen. No. 1,425,150; Aug. 8.
Underwood Typewriter Company. (See Kurowski, Alfred G. P., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
United Products Corporation of America. (See Isaacs, Mone B., assignor.)
United States Automotive Corporation. (See Arbuckle, Samuel F., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Anthony, Thomas P., assignor.)
Universal Nut Lock Company. (See Birchman, A., Matter, and McCoy, assignors.)
V. B. M. Company. (See Moran, William F., assignor.)
Valiquette, Gilles, Montreal, Quebec, Canada. Tire protector. No. 1,425,299; Aug. 8.
Van Dusen, Charles A., assignor to The Toledo Standard Commutator Company, Toledo, Ohio. Spool or holder for commutators. No. 1,424,954; Aug. 8.
Van Eck, George H., Tampa, Fla. Ventilating toilet. No. 1,424,955; Aug. 8.
Vanhonsebrouck, Charles E., Salem Depot, N. H., assignor to Draper Corporation, Hopedale, Mass. Stop motion for looms. No. 1,424,956; Aug. 8.
Van Tilburg, Harry W., Elkhart, Ind. Automobile securing device. No. 1,424,957; Aug. 8.
Variable Speed Gear, Limited, The. (See Ingoldby, Maurice K., assignor.)
Varnuska, Frank J., New York, N. Y. Toy house. No. 1,425,425; Aug. 8.
Verhey, Hulbert C., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine-cooling system. No. 1,425,151; Aug. 8.
Vernet, J. H., et al. (See Johnson, Sigfred, assignor.)
Vickers Limited. (See McKechnie, J., and Fender, assignors.)
Viers, Burr D., Red Lodge, Mont. Electrically-operated saw. No. 1,425,152; Aug. 8.
Vigneault, George N. (See Vigneault, Henry J., assignor.)
Vigneault, Henry J., assignor of one-half to G. N. Vigneault, Worcester, Mass. Front fastening for soft collars. No. 1,425,153; Aug. 8.
Viscose Company, The. (See Clayton, James, assignor.)
Vogt, John H., jr., Columbus, Ohio. Tube setting and spreading tool. No. 1,425,426; Aug. 8.
Vogt, William J. (See Livingston, Frederick H., assignor.)
Vredenburgh, Harry D., Brooklyn, N. Y. Bottle stopper. No. 1,424,862; Aug. 8.
Vulcan Motor Devices Company. (See Stevens, William C., assignor.)
Waggoner, Chauncey W. (See Peacock, Samuel, assignor.)
Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)
Wales, Nathaniel B., Kalamazoo, assignor to Furnace Fan Corporation, Niles, Mich. Automatic fan system for hot-air furnaces. No. 1,424,958; Aug. 8.
Walker, Don C., and B. Weeks, Memphis, Tenn. Key-control telephone switch. No. 1,424,863; Aug. 8.
Walker, James E., Hecla, S. Dak. Adjustable foot rest for shoe-shining stands. No. 1,424,959; Aug. 8.
Wall, Willie F., Watsonville, Calif. Combined expansion and counterboring bit. No. 1,425,300; Aug. 8.
Waller, Robert H., and G. Jackson, assignors to Quicksafe Manufacturing Company, Nashville, Tenn. Can opener. No. 1,424,960; Aug. 8.
Ward, Charles A., Mount Vernon, N. Y. Controller for electrical vehicles. No. 1,425,070; Aug. 8.
Warneford, Wetherell F., London, England. Horse-blanket retainer. No. 1,425,301; Aug. 8.
Warr, Harold G., Park Ridge, assignor to The P. & M. Company, Chicago, Ill. Rail anchor. No. 1,425,223; Aug. 8.
Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. No. 1,425,224; Aug. 8.
Warren Webster & Company. (See Fitts, James L., assignor.)
Warshaw, Nathan, New York, N. Y. Fan. No. 1,424,864; Aug. 8.
Washington, Bushrod C., and S. K. Joice, Washington, D. C. Fan. No. 1,424,961; Aug. 8.
Watson, Alfred R., Bembridge, Isle of Wight, England. Return-pipe connections for hot-water tanks. No. 1,425,427; Aug. 8.
Weagant, Roy A., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Apparatus for receiving radiosignals. No. 1,425,154; Aug. 8.
Weaver, Ira A., and R. G. Stoehr, assignors to The Weaver Manufacturing Company, Springfield, Ill. Truck jack. No. 1,424,962; Aug. 8.
Weaver Manufacturing Company, The. (See Weaver, I. A., and Stoehr, assignors.)
Weber, Bernard F., Chicago, Ill. Building brick. No. 1,425,302; Aug. 8.
Weeks, Bonzano. (See Walker, D. C., and Weeks.)
Weeks, Charles S., South Orange, N. J. Labeling machine. No. 1,425,351; Aug. 8.
Wellert, Anton, Binghamton, N. Y. Magnet fire-alarm system. No. 1,424,963; Aug. 8.
Wellington, Arthur W., and A. F. Ryan, San Jose, Calif. Pump. No. 1,424,964; Aug. 8.
Wells, Robert G., Marple, England. Internal-combustion engine. No. 1,424,965; Aug. 8.
Welsh, Charley H., Norman Township, Grundy County, Ill. Road grader. No. 1,425,303; Aug. 8.
Wertman, William T., Minneapolis, Minn. Harrow. No. 1,424,966; Aug. 8.
Western Electric Company. (See Wold, Peter I., assignor.)
Westlake, Charles T., and K. S. Howard, St. Louis, Mo. Electric truck. No. 1,424,788; Aug. 8.
Wethling, Harry D., Orange, N. J. Electric lock. No. 1,425,428; Aug. 8.
Weyl, Leo. (See Gompers, E. E., Weyl, and Hein.)
Wherry, John A., New Orleans, La. Collated work sheet. No. 1,424,967; Aug. 8.
Wherry, John A., New Orleans, La. Record sheet or card. No. 1,424,968; Aug. 8.

White, Bruce C., New York, N. Y., assignor to Federal Electric Company, Chicago, Ill. Friction drive coupling. No. 1,425,305; Aug. 8.

White, Bruce C., New York, N. Y., assignor to Federal Electric Company, Chicago, Ill. Gearing. No. 1,425,304; Aug. 8.

White, Ezekiel F., Detroit, Mich. Drying method and means. No. 1,424,969; Aug. 8.

White, William, Plainville, Mass. Detachable shoe buckle. No. 1,425,155; Aug. 8.

Whiting Corporation. (See Townsend, John S., assignor.)

Whitman, Charles F., assignor to Automatic Products Company, Detroit, Mich. Automatic chuck for screw machines. No. 1,425,226; Aug. 8.

Whitney, F. A., Carriage Company. (See Ambler, G. B., and Shaw, assignors.)

Whitney, Nathaniel D., Milford, Conn. Valve for oil systems. No. 1,425,429; Aug. 8.

Whittemore, James, Detroit, Mich., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Apparatus for drawing sheet glass. No. 1,425,225; Aug. 8.

Widmaier, Harry J., Philadelphia, Pa. Clutch. No. 1,425,156; Aug. 8.

Wiese, Edward W., sr., St. Louis, Mo. Machine for shaping crush work. No. 1,424,789; Aug. 8.

Wikander, Oscar R., Pittsburgh, Pa., assignor to The Skayef Ball Bearing Company, Hartford, Conn. Planetary gear. No. 1,425,430; Aug. 8.

Wiles, Edwin B., Chicago, Ill. Gear-shift mechanism. No. 1,424,790; Aug. 8.

Will, Louis. (See Cone, Ralph R., assignor.)

Williams, Grant, Patchogue, N. Y. Device for studying finger prints and their classification. No. 1,425,157; Aug. 8.

Willix, Enos B., Mount Vernon, Iowa. Voting machine. No. 1,425,352; Aug. 8.

Wilmoth, Warren A. (See Froman, O., and Wilmoth.)

Wilson, Elizabeth, Plattsmouth, Nebr. Mechanical colander. No. 1,425,431; Aug. 8.

Wilson, John A., Elizabeth, assignor to The Duratex Company, Newark, N. J. Coated fabric and making the same. No. 1,425,306; Aug. 8.

Wilson, John A., Elizabeth, assignor to The Duratex Company, Newark, N. J. Coated fabric and making same. No. 1,425,307; Aug. 8.

Winslow, Edward W., Belle Plaine, Iowa. Motor friction phonograph mechanism. No. 1,425,353; Aug. 8.

Winter, Courtney P., New Brunswick, N. J. Making paper napkins. No. 1,425,071; Aug. 8.

Wiswall, Alvah, deceased, Providence, R. I.; E. W. Shedd, administrator. Resilient vehicle wheel. No. 1,424,865; Aug. 8.

Wolcott, Eben H., trustee. (See Moffatt, Ansil, assignor.)

Wold, Peter L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and means for relaying modulated carrier waves. No. 1,424,866; Aug. 8.

Wolf, Austin M., Plainfield, N. J. Automotive vehicle. No. 1,424,867; Aug. 8.

Wolfsohn, Charles, Boston, Mass. Sanitary massage pad. No. 1,425,158; Aug. 8.

Wonder Trap Co. (See Baker, W. E., and Sonneman, assignors.)

Woock, Eric M. (See Woock, Walter R., H. J., and E. M.)

Woock, Herbert J. (See Woock, Walter R., H. J., and E. M.)

Woock, Walter R., H. J., and E. M., assignors to Superior Manufacturing Company, Lodi, Calif. Unit pump and motor for submerged service. No. 1,425,308; Aug. 8.

Woodward Automatic Control Corporation. (See Woodward, Garrett W., assignor.)

Woodward, Garrett W., assignor to Woodward Automatic Control Corporation, Chicago, Ill. Gear-shifting mechanism. No. 1,425,227; Aug. 8.

Worthington Pump and Machinery Corporation. (See Stone, Joseph D., assignor.)

Worthington, Tillman B., assignor of one-half to A. M. Bambrick, Scotland, Pa. Convertible chair and table. No. 1,425,354; Aug. 8.

Xelaras, Demos. (See Zontos, Peter S., assignor.)

Yale & Towne Manufacturing Company, The. (See Rector, Enoch, assignor.)

Yamasaki, Tsunejiro, San Francisco, Calif. Animal trap. No. 1,425,355; Aug. 8.

Yearwood, Byrd O. (See Jackson, R. E., and Yearwood.)

Zabel, August F., and R. V. Townsend, Minnesota Lake, Minn. Potato picker. No. 1,424,868; Aug. 8.

Zepka, Ludwig R., Cleveland, Ohio. Theft signal for motor vehicles. No. 1,425,159; Aug. 8.

Zingre, Charles, Webster Groves, Mo. Lawn horseshoe. No. 1,424,869; Aug. 8.

Zola, Hector, Cleveland, Ohio. Service device. No. 1,425,432; Aug. 8.

Zontos, Peter S., assignor of one-half to D. Xelaras, St. Louis, Mo. Article holder for pockets. No. 1,424,970; Aug. 8.

Zook, Thomas L., Los Angeles, Calif. Spinal-vibrating apparatus. No. 1,425,433; Aug. 8.

Zwahlen, Emil, North Braddock, Pa. Combination blind and curtain support. No. 1,425,160; Aug. 8.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Bickre, Edgar O., Sioux City, Iowa. Elastic tire tread. No. 61,335; Aug. 8.

Buckeye Rubber Products Company, The. (See Current, Wertus G., assignor.)

Cheney Talking Machine Company. (See Miller, William H., assignor.)

Cohan-Epner Co. Inc. (See Kronburger, Stephen, assignor.)

Current, Wertus G., assignor to The Buckeye Rubber Products Company, Willoughby, Ohio. Vehicle tire. No. 61,336; Aug. 8.

Doehler Die Casting Company. (See Stern, Marcus, assignor.)

Edmunds & Jones Corporation. (See Preston, Edward S., assignor.)

Friedley-Voshardt Co. (See Mohrmann, Paul, assignor.)

Goddard, Wilfred B., San Francisco, Calif. Arm for lighting fixtures. No. 61,337; Aug. 8.

Goff, Milton G., Detroit, Mich. Knife-sharpening device. No. 61,338; Aug. 8.

Gossner, Joseph, New York, N. Y. Combined paper weight, cigar cutter, and flag stand. No. 61,339; Aug. 8.

Harris, Godfrey H., New York, N. Y. Poker chip or the like. No. 61,340; Aug. 8.

Herbert, Carl L., El Reno, Okla. Advertising board. No. 61,341; Aug. 8.

Koehler, Otto. (See Ross, H. A., and Koehler.)

Kotato, Teiji, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. No. 61,342; Aug. 8.

Kronburger, Stephen, Jersey City, N. J., assignor to Cohan-Epner Co. Inc., New York, N. Y. Combination ash tray and match-box holder. No. 61,343; Aug. 8.

Mayer, Fred G., assignor to Starr Piano Company, Richmond, Ind. Phonograph table. No. 61,344; Aug. 8.

Miller, William H., assignor to Cheney Talking Machine Company, Chicago, Ill. Phonograph cabinet. No. 61,345; Aug. 8.

Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Receptacle. No. 61,346; Aug. 8.

Morimura Bros. Inc. (See Kotato, Teiji, assignor.)

Pittsburgh Lamp, Brass & Glass Company. (See Ross, H. A., and Koehler, assignors.)

Preston, Edward S., Chicago, Ill., assignor to Edmunds & Jones Corporation. Signal-lamp lens. No. 61,347; Aug. 8.

Rolph, William M., London, England. Radiator-cap ornament. No. 61,348; Aug. 8.

Ross, Harry A., Pittsburgh, and O. Kohler, Jeannette, assignors to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Shade for lighting fixtures. No. 61,349; Aug. 8.

Ross, Harry A., Pittsburgh, and O. Kohler, Jeannette, assignors to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Bowl for lighting fixtures. No. 61,350; Aug. 8.

Saylor, Parry D., Buffalo, N. Y. Vehicle tire tread. No. 61,351; Aug. 8.

Smith, Isaac T., Rocky Mount, N. C. Back of playing cards. No. 61,352; Aug. 8.

Starr Piano Company. (See Mayer, Fred G., assignor.)

Stern, Marcus, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Tray. No. 61,353; Aug. 8.

Ullman, Joseph B., Washington, D. C. Ring. No. 61,354; Aug. 8.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aaron, Israel, New York, N. Y. Little cigars. No. 157,444; Aug. 8.

Ambco, Inc., New York, N. Y. Certain articles of clothing. No. 157,445; Aug. 8.

American Brass Company, The, Waterbury, Conn. Nonferrous metals and alloys, and products made from same. No. 157,446; Aug. 8.

American Chemical & Drug Company, Inc., Olyphant, Pa. Solidified liniment. No. 157,447; Aug. 8.

American Lady Corset Co., Detroit, Mich. Corset waists, brassières, bandeaux, girdles, hose supporters. No. 157,448; Aug. 8.

American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Children's and misses' garters. Nos. 157,449–50; Aug. 8.

American Writing Paper Company, Holyoke, Mass. Writing and printing papers. No. 157,451; Aug. 8.

Arcade Manufacturing Company, The, Freeport, Ill. Coffee mills. No. 157,613; Aug. 8.

Arend, A., Drug Co., Chicago, Ill. Medicinal preparation for the treatment of the nerves, stomach, etc. No. 157,452; Aug. 8.

Auto-Vehicle Parts Company, The, Cincinnati, Ohio. Nails and tacks. No. 157,453; Aug. 8.

Automatic Bearing Co. Inc., Geneseo, Ill. Bolts. No. 157,454; Aug. 8.

B. & K. Specialty Company, The, Paterson, N. J. Receptacles containing a fire-extinguishing liquid and mounted on a bracket. No. 157,614; Aug. 8.

Ballhorn, William, Garwin, Iowa. Remedy for fistula and poll-evil in horses and cattle. No. 157,455; Aug. 8.

Barnett, Elmer, Waco, Tex. General tonic for medicinal purposes. No. 157,456; Aug. 8.

Bauer & Black, Chicago, Ill. Talcum powder. No. 157,457; Aug. 8.

Benavides, Gabriel J., Philadelphia, Pa. Ointment remedies for dandruff. No. 157,458; Aug. 8.

Berberian, Levon, Providence, R. I. Cigars and cigarettes. No. 157,459; Aug. 8.

Berkeley Company, Providence, R. I. Cambrics in the piece. No. 157,460; Aug. 8.

Blanding and Blanding, Inc., Providence, R. I. Certain medicinal preparation. No. 157,461; Aug. 8.

Blumenthal, Sidney, & Co. Inc., assignor to Central Union Trust Company of New York, New York, N. Y. Pile fabrics in the piece. No. 157,462; Aug. 8.

Bock Novelty and Manufacturing Company. (See Hachmann, Frederick, assignor.)

Bourjois, A., & Co. Inc., New York, N. Y. Toilet powders and compacts. No. 157,463; Aug. 8.

Bowyer, Ambrose, Chicago, Ill. Periodicals published monthly. No. 157,464; Aug. 8.

Bridgeport Brass Company, Bridgeport, Conn. Brass rods. No. 157,465; Aug. 8.

Brohman Company, New York, N. Y. Children's dresses. No. 157,466; Aug. 8.

Buettell Brothers Company, Dubuque, Iowa. Baseballs, baseball bats and gloves, and footballs. No. 157,467; Aug. 8.

Buettell Brothers Company, Dubuque, Iowa. Certain articles of stationery. No. 157,468; Aug. 8.

Bull Dog Lock Washer Co., The, Baltimore, Md. Lock washers. No. 157,469; Aug. 8.

Burke, Frank G., New York, N. Y. Toilet soaps. No. 157,540; Aug. 8.

Cal-S-Foe Corp., Brooklyn, N. Y. Callous remover. No. 157,470; Aug. 8.

Canter, Henry, Homestead, Pa. Tonic. No. 157,471; Aug. 8.

Capewell Horse Nail Company The, Hartford, Conn. Horseshoe nails. Nos. 157,472–3; Aug. 8.

Carlson, Frank, Minneapolis, Minn. Preparation for the throat and lungs. No. 157,474; Aug. 8.

Central Union Trust Company of New York. (See Blumenthal, Sidney, & Co., assignor.)

Central Wheel Company, Sturgis, Mich. Children's velocipedes. No. 157,475; Aug. 8.

Century Knitting Mills, New York, N. Y. Knit jackets. No. 157,478; Aug. 8.

Chase Manufacturing Company. (See Chase, Sidney M.)

Chase, Sidney M., doing business as Chase Manufacturing Company, Minneapolis, Minn. Skiis. No. 157,476; Aug. 8.

Churchill & Alden Co., Brockton, Mass. Shoes and boots of leather, canvas, woolen cloth, rubber, etc. No. 157,477; Aug. 8.

Cincinnati-Bickford Tool Company, The, Cincinnati, Ohio. Metal-drilling machinery. No. 157,615; Aug. 8.

Clayton Mfg. Co., Bristol, Conn. Scissors and shears. 157,616; Aug. 8.

Cleveland Pneumatic Tool Company, The, Cleveland, Ohio. Certain pneumatic tools consisting of riveting hammers. No. 157,617; Aug. 8.

Columbus Manufacturing Company, Columbus, Ga. Cotton sheetings. No. 157,479; Aug. 8.

Combustinwerk Eulitz & Co., Fahrbrucke, Germany. Salves and ointments. No. 157,480; Aug. 8.

Complexion Products Co., New York, N. Y. Liquid chemical preparation for use in making face powder adhere to the skin. No. 157,481; Aug. 8.

Concentrated Products Corporation, Carlstadt, N. J., and New York, N. Y. Shampoo compound. No. 157,482; Aug. 8.

Continental Mills, Inc., Philadelphia, Pa. Knitted woolen and worsted cloths, elderdowns, chinchillas, etc. No. 157,483; Aug. 8.

Cosmos Trading Company. (See Klemperer, Gustav.)

Crim, Otis P., trading as Dairy-Maid Baking Powder Company, Anderson, Ind. Baking powder. No. 157,484; Aug. 8.

Crystal Soda Water Works. (See Gibson, William J.)

Dairy Association Co. Inc., Lyndonville, Vt. Certain medicinal preparation for cows. No. 157,486; Aug. 8.

Dairy-Maid Baking Powder Company. (See Crim, Otis P.)

Dearborn Publishing Company, Dearborn, Mich. Weekly publication. No. 157,487; Aug. 8.

Designer Publishing Company, The, New York, N. Y. Publication in the nature of instruction sheets or charts for dressmakers' use. No. 157,488; Aug. 8.

Detroit Twist Drill Company, Detroit, Mich. Milling reamers and cutters. No. 157,489; Aug. 8.

De Witt, Macdonald, New York, N. Y. Photographs. No. 157,490; Aug. 8.

Diamond Braiding Mills, Chicago Heights, Ill. Shoe laces. No. 157,491; Aug. 8.

Dunlap Medicine Co., Columbus, Ohio. Certain medicinal preparation. No. 157,492; Aug. 8.

Eagle Pencil Company, New York, N. Y. Lead pencils. No. 157,493; Aug. 8.

Eagle Suspender & Belt Co. Inc., Philadelphia, Pa. Hose supporters and garters. No. 157,494; Aug. 8.

East and West Trading Corporation, New York, N. Y. Human-hair nets. No. 157,495; Aug. 8.

Edwardsen, Cris A., doing business as D. L. Witmer & Bro., Philadelphia, Pa. Windshield cleaners of the squeegee type. No. 157,496; Aug. 8.

Feng Laboratories, Inc., New York, N. Y. Medicinal preparations. No. 157,497; Aug. 8.

Fleischer & Co., The. (See Fleischer, Joseph.)

Fleischer, Joseph, doing business as The Fleischer & Co., New York, N. Y. Hair nets. No. 157,618; Aug. 8.

Frankel, Armin A., Philadelphia, Pa. Ladies' three-piece suits. No. 157,498; Aug. 8.

Garner Print Works and Bleachery, New York, N. Y. Mercerized and unmercerized lingerie cloth. No. 157,504; Aug. 8.

Gibson, William J., trading as Crystal Soda Water Works, Uniontown, Pa. Ginger ale and sirup for making the same. No. 157,505; Aug. 8.

Gillette Rubber Co., Eau Claire, Wis. Aprons. No. 157,506; Aug. 8.

Glasser, D. C., Tobacco Company, Dubuque, Iowa. Cigars and chewing tobacco. No. 157,485; Aug. 8.

Goblintoy Company, Chicago, Ill. Toy air guns (for shooting air balls). No. 157,507; Aug. 8.

Goldberg, Isidor, Brooklyn, N. Y. Hose supporters, arm bands, garters. No. 157,508; Aug. 8.

Gordon & Ferguson, St. Paul, Minn. Certain articles of clothing. No. 157,509; Aug. 8.

Goshen Printery, The, Goshen, Ind. Transfer labels. No. 157,510; Aug. 8.

Greanias, Tom G., Decatur, Ill. Cigars. No. 157,511; Aug. 8.

Griffin Choker Ash Tray, Inc., Philadelphia, Pa. Ash trays. No. 157,512; Aug. 8.

Hachmann, Frederick, assignor to Bock Novelty and Manufacturing Company, St. Louis, Mo. Shoe plates for boots and shoes. No. 157,573; Aug. 8.

Haffenreffer & Co. (See New England Brewing Company.)

Hamburger Factories Inc., Chicago, Ill. Certain cutlery and tools. No. 157,514; Aug. 8.

Hamilton Card & Paper House, Inc., New York, N. Y. Bond paper for writing and printing purposes. No. 157,515; Aug. 8.

Hart-Shaw-Miller Drug Company, Adrian, Mich. Blood purifier and cleanser and system builder. No. 157,516; Aug. 8.

Heberlein & Co., A. G., Wattwil, Switzerland. Certain piece goods. No. 157,517; Aug. 8.

Heirloom Aluminum Corporation. (See Metal and Alloy Specialties Company.)

Henning, V. & Sons, Brooklyn, N. Y. Certain nonferrous metals. No. 157,518; Aug. 8.

Herman, Joseph, New York, N. Y. Perfumes and toilet water. No. 157,519; Aug. 8.

Holbrook, H. E., Company, Boston, Mass. Trundle beds and infants' coops. No. 157,520; Aug. 8.

Hudson Seal Co. Inc., New York, N. Y. Fur coats, wraps, capes, and neck pieces. No. 157,521; Aug. 8.

Hurty-Peck & Co., Indianapolis, Ind. Flavoring sirups for nonalcoholic maltless beverages. No. 157,522; Aug. 8.
Hyatt, Adda E., doing business as Hyatt and Company, Anderson, Ind. Hair invigorator and tonic. No. 157,523; Aug. 8.
Hyatt and Company. (See Hyatt, Adda E.)
Hydrarginol Company, Kansas City, Mo. Certain medicinal preparation. No. 157,524; Aug. 8.
Imperial Chemical Mfg. Co., New York, N. Y. Powdered depilatories, shampoos, face creams, etc. No. 157,525; Aug. 8.
International Salt Co. of New York, New York, N. Y. Salt. No. 157,526; Aug. 8.
International Silver Company, Meriden, Conn. Certain unplated flat tablewear. No. 157,610; Aug. 8.
Interstate Shade Cloth Co., Hoboken, N. J. Shade rollers. No. 157,527; Aug. 8.
J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow, Berlin-Pankow, Germany. Cigars, cigarettes, smoking, chewing, and snuff tobacco, cut tobacco. No. 157,499; Aug. 8.
J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow, Berlin-Pankow, Germany. Cigars, cigarettes, cigarillos, smoking, chewing, and snuff tobacco, etc. No. 157,500; Aug. 8.
J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow, Berlin-Pankow, Germany. Cigarettes. No. 157,501; Aug. 8.
J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow, Berlin-Pankow, Germany. Cigars, cigarettes, cigarillos, etc. Nos. 157,502–3; Aug. 8.
Jaquet, Daniel, trading as Parfums Fontanis, Paris, France. Toilet preparations. No. 157,528; Aug. 8.
Jenkins Manufacturing Company, Bloomfield, N. J. Valve handles or wheels. No. 157,529; Aug. 8.
Keystone Publishing Company, The, Philadelphia, Pa. Monthly magazine devoted to jewelry. No. 157,530; Aug. 8.
Klemperer, Gustav, trading as Cosmos Trading Company, New York, N. Y. Hair nets. No. 157,531; Aug. 8.
Larkin, Thomas W., & Co., doing business as Mystery Drink Company, Streator, Ill. Nonalcoholic, noncereal, maltless beverage. No. 157,532; Aug. 8.
Leonard & Barrows, Middleboro and Boston, Mass. Leather boots and shoes. No. 157,533; Aug. 8.
Lesh, C. P., Company, Indianapolis, Ind. Writing, printing, and book paper. Nos. 157,620–2; Aug. 8.
Lincoln Fiscal Agency, St. Louis, Mo. Monthly magazine. Nos. 157,534–5; Aug. 8.
Link-Belt Co., Chicago, Ill. Clutches. No. 157,623; Aug. 8.
Lucas, Louis, Company, Inc., Jamestown, N. Y. Aromatic incense. No. 157,536; Aug. 8.
Lucey Manufacturing Corporation, New York, N. Y., and Pittsburgh, Pa. Serial house-organ publication and also yearly diary. No. 157,537; Aug. 8.
Mach, Benjamin W., Chicago, Ill. Penholders. No. 157,624; Aug. 8.
Mantsion, Frank X., Philadelphia, Pa. Certain medicinal preparation. No. 157,538; Aug. 8.
Marshall Field & Company, Chicago, Ill. Muslin in the piece. No. 157,539; Aug. 8.
Masterman, John H., Baltimore, Md. Cigars. No. 157,541; Aug. 8.
Metal and Alloy Specialties Company Inc., Buffalo, N. Y., assignor, by mesne assignments, to Heirloom Aluminum Corporation, Buffalo, N. Y. Kitchen cooking utensils, made of aluminum. No. 157,542; Aug. 8.
Middleby, Jos., Jr., Inc., Boston, Mass. Nonalcoholic maltless beverages and sirups therefor. No. 157,543; Aug. 8.
Mitchell & Mitchell Manufacturing Company, Fort Smith, Ark. Bed springs. No. 157,544; Aug. 8.
Moline Pressed Steel Co., East Moline, Ill. Toy motor trucks, steam shovels, and derricks. No. 157,545; Aug. 8.
Mount Hope Finishing Company, Dighton, Mass. Cotton, silk, and other piece goods. No. 157,546; Aug. 8.
Mystery Drink Company. (See Larkin, Thomas W., & Co.)
N. M. T. A. Mfg. Co. (See Rosenfield, Adolph A.)
Nast, Condé, New York, N. Y. Bimonthly publication. No. 157,547; Aug. 8.
National Game Company, The, Toledo, Ohio. Parlor baseball game. No. 157,548; Aug. 8.
Neptune, Meter Company, New York, N. Y. Relief valves. No. 157,549; Aug. 8.
Newell Mfg. Co. Inc., The, Ogdensburg, N. Y. Curtain rods. No. 157,550; Aug. 8.
New England Brewing Company, doing business as Haffenreffer & Co., Jersey City, N. J., and Boston, Mass. Concentrated material brewed from malt and hops, suitable for the making of a malt beverage. No. 157,551; Aug. 8.
North Wayne Tool Company, Detroit, Mich., and Hallowell, Me. Grass cutters and scythes. No. 157,552; Aug. 8.
O'Bryan Brothers, Inc., Nashville, Tenn. Overalls. No. 157,553; Aug. 8.
Off'N'On Chain Corporation, New York, N. Y. Automobile tire chains. No. 157,554; Aug. 8.
O'Shea Knitting Mills, Chicago, Ill. Sweaters, bathing suits, sport, work, and negligee shirts, pants, etc. No. 157,555; Aug. 8.
Pappanicolaou, George, Washington, D. C., and New York, N. Y. Cigarettes. No. 157,556; Aug. 8.
Parfums Fontanis. (See Jaquet, Daniel.)
Parker Brothers, Salem, Mass. Card games. No. 157,557; Aug. 8.
Parkway Bottling Co. Inc., Philadelphia, Pa. Nonalcoholic, maltless beverage sold as a soft drink. No. 157,558; Aug. 8.
Passaic Print Works, Passaic, N. J. Cotton piece goods. No. 157,559; Aug. 8.
Perfection Timing Gear Company, Chicago, Ill. Timing gears for automobiles. No. 157,625; Aug. 8.
Philadelphia Quarts Company, Philadelphia, Pa. Series of pamphlets, booklets, or leaflets. No. 157,560; Aug. 8.
Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Underwear for men, women, and children and knit corset covers. No. 157,561; Aug. 8.
Powers Paper Company, Springfield, Mass. Writing, printing, and typewriter paper, papeteries, correspondence envelopes, etc. No. 157,563; Aug. 8.
Powers Paper Company, Springfield, Mass. Writing and printing paper, writing tablets, papeteries, etc. No. 157,564; Aug. 8.
Powers Paper Company, Springfield, Mass. Writing, printing, and typewriter paper, papeteries, correspondence envelopes, etc. No. 157,565; Aug. 8.
Practical Electrics Company, Incorporated, New York, N. Y. Magazines monthly issued. No. 157,566; Aug. 8.
Propper Silk Hosiery Mills, Inc., New York, N. Y. Women's hosiery. No. 157,562; Aug. 8.
Purabrand Products Co., The, Pleasant Hill, Ohio. Certain medicinal preparations. No. 157,567; Aug. 8.
R. B. Clothing Company, Inc., The, Cincinnati, Ohio. Men's clothing for outer wear. No. 157,568; Aug. 8.
Reliable Knitting Works, Milwaukee, Wis. Knitted caps. No. 157,569; Aug. 8.
Rich & France, Chicago, Ill. Brooms. No. 157,570; Aug. 8.
Ringler, George, & Co., New York, N. Y. Nonintoxicating maltless beverage. No. 157,571; Aug. 8.
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Chambray and cheviots in the piece. No. 157,572; Aug. 8.
Robinson, M. W., Co., New York, N. Y. Nippers. No. 157,626; Aug. 8.
Rodger Publishing Company, Chicago, Ill. Trade magazine. No. 157,573; Aug. 8.
Root, Charles F., New York, N. Y. Lotion for dressing the hair. No. 157,574; Aug. 8.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, and pants. No. 157,575; Aug. 8.
Rosenfield, Adolph A., trading as N. M. T. A. Mfg. Co., New York, N. Y. Medicinal preparation for the treatment of the gums and teeth. No. 157,576; Aug. 8.
Rothstein, Harris W., trading as H. W. Rothstein & Co., Baltimore, Md. Men's suits. No. 157,577; Aug. 8.
Saltzman, Maurice, New York, N. Y. Ladies' hats. No. 157,578; Aug. 8.
Seattle-Astoria Iron Works, Seattle, Wash. Can heading and sealing machines. No. 157,627; Aug. 8.
Service Publishing Co., The, South Bend, Ind. Monthly trade journal. No. 157,580; Aug. 8.
Siegrist, William B., Jellico, Tenn. Bread. No. 157,581; Aug. 8.
Sitroux Importing Company, Inc., New York, N. Y. Hair nets. Nos. 157,582–3; Aug. 8.
Sonneborn, Henry, & Co. Inc., Baltimore, Md. Men's and boys' hats and caps. No. 157,584; Aug. 8.
Star Suspender Co., Philadelphia, Pa. Garters. No. 157,585; Aug. 8.
Stebbins, E., Manufacturing Company, Springfield, Mass. Faucets, cocks, and bibs. No. 157,586; Aug. 8.
Stein, A., & Company, Chicago, Ill. Baby pants. No. 157,587; Aug. 8.
Stein & Eilbogen Company, Chicago, Ill. Watches. No. 157,588; Aug. 8.
Stettauer, Harris & Raphael, New York, N. Y. Cotton fabrics in the piece. No. 157,628; Aug. 8.
Strathmore Paper Company, West Springfield, Mass. Writing, typewriting, and other paper, cardboard, Bristol board, etc. No. 157,589; Aug. 8.
Sweetser, George E., Company, New York, N. Y. Men's dress shirts and underwear. No. 157,590; Aug. 8.
Szabo, Alex, Perth Amboy, N. J. Horseshoeing apparatus. No. 157,591; Aug. 8.
Tannenbaum, Isidore, New York, N. Y. Ladies' trimmed and untrimmed hats and hat frames. No. 157,592; Aug. 8.
Teddy Multiplication Game Company, The, Cleveland, Ohio. Arithmetical card game. No. 157,593; Aug. 8.
Tomson, P. C., & Co., Philadelphia, Pa. Lye. No. 157,594; Aug. 8.
Tomson, P. C., & Co., Philadelphia, Pa. Chlorinated lime. No. 157,595; Aug. 8.
Tranter Manufacturing Company, Pittsburgh, Pa. Certain pumps, engines, farm implements, wood and metal working machinery, and accessories. No. 157,596; Aug. 8.
Tuttle, Orley C., Old Forge, N. Y. Artificial bait. No. 157,597; Aug. 1.
United Turkey Red Company, Limited, Glasgow, Scotland. Cotton table covers, handkerchiefs, doilies, etc. No. 157,612; Aug. 8.

Universal Shoe Plate Company, The, Cleveland, Ohio. Shoe plates. No. 157,598; Aug. 8.
Van Zelm, L. Franklin, Pelham, N. Y. Series or succession of drawings or pictures. No. 157,599; Aug. 8.
Vernor, James Company, Detroit, Mich. Ginger ale and ginger ale extract. No. 157,600; Aug. 8.
Vivaudou V., Inc., New York, N. Y. Certain brushes and brooms, powder puffs, and windshield cleaners. No. 157,601; Aug. 8.
Vlach, Emil V., New York, N. Y. Salve for boils, cuts, wounds, etc. No. 157,602; Aug. 8.
Walbaum, Goulden & Co., Reims, France. Champagne wines. No. 157,603; Aug. 8.
Wallace & Tiernan Co. Inc., Newark, N. J. Chlorine-control apparatus. No. 157,629; Aug. 8.
Wentworth Clothing Company, Spokane, Wash. Certain articles of clothing. No. 157,604; Aug. 8.
Werner, Frank, San Francisco, Calif. Shoes, boots, slippers, pumps, oxfords. No. 157,605; Aug. 8.
Westheimer, Sidney F., Baltimore, Md. Toilet preparation. No. 157,606; Aug. 8.
Weyand, Charles E., & Co., Inc., New York, N. Y. Writing paper and envelopes. No. 157,607; Aug. 8.
Whip-O-Top Company, The, New Britain, Conn. Tops. No. 157,608; Aug. 8.
Wigwam Retail Stores Company, The, Columbia, S. C. Cigars, cigarettes, cheroots, snuff, and smoking tobacco. No. 157,609; Aug. 8.
Wilson, Douglas S., Midville, Ga. Preparation for treatment of bots, colic, distemper, etc., for horses and mules. No. 167,610; Aug. 8.
Winterbottom Book Cloth Company Limited, The, Manchester, England, Tracing cloth. No. 157,611; Aug. 8.
Witmer, D. L., & Bro. (See Edwardsen, Cris A.)

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Albers Bros. Milling Co., Seattle, Wash. "Del Monte." (For Flour.) No. 24,820; Aug. 8.
Albers Bros. Milling Co., Seattle, Wash. "Albers Peacock Brand." (For Buckwheat Flour.) No. 24,821; Aug. 8.
Albers Bros. Milling Co., Seattle, Wash. "Albers." (For Flapjack Flour.) No. 24,822; Aug. 8.
Albers Bros. Milling Co., Seattle, Wash. "Peacock." (For Rolled Oats.) No. 24,823; Aug. 8.
Albers Bros. Milling Co., Seattle, Wash. "Albers Carnation." (For Wheat Flakes.) No. 24,824; Aug. 8.
Aunt Molly's Kitchen, Muskegon, Mich. "Aunt Molly's Home-Made Candles." (For Boxes Containing Candy.) No. 24,844; Aug. 8.
Bennett, Louis J., Kansas City, Mo. "Aqua-ton." (For Containers for Mineral Water.) No. 24,825; Aug. 8.
Calamia & O'Reardon Inc., New Orleans, La. "State Brand Butter." (For Cartons, Tubs, and Other Packages of Butter.) No. 24,826; Aug. 8.
Chattanooga Mattress Company, Chattanooga, Tenn. "White Swan." (For Mattresses.) No. 24,828; Aug. 8.
Cohen, Syma, Chicago, Ill. "Lady Esther Whitemer Cream." (For Face Cream.) No. 24,829; Aug. 8.
Collins, J. N., Company, Minneapolis, Minn. "Walnuttos." (For Complete Candy Parcels Made Up of a Box Filled with Wrapped Candy—Namely, Caramels.) No. 24,830; Aug. 8.
Connor & McCormick, Los Angeles, Calif. "Aloha." (For Chocolates—Namely, Cherry Cocktail.) No. 24,831; Aug. 8.
Constant Heat Pack Corporation, Albany, N. Y. "Recharge." (For Chemical Heaters.) No. 24,832; Aug. 8.
Cunningham, John R., Kansas City, Mo. "Pork-Oreno." (For Containers for Fishing Bait.) No. 24,833; Aug. 8.
Economy Bias Binding Co., The, New York, N. Y. "Bonnie Blue." (For Bias Seam Tapes.) No. 24,834; Aug. 8.
Emerson Drug Company, Baltimore, Md. "Emerson's Ginger-Mint Julip." (For Nonalcoholic Beverages Sold at Fountains and in Bottles as a Soft Drink.) No. 24,835; Aug. 8.
Entomological Laboratories of North America, The, Jersey City, N. J. "Bingo." (For Bug Killer.) No. 24,836; Aug. 8.
Great Northern Fur Dyeing & Dressing Co. (See Pierini, Attilio.)
Henningen Produce Company, Portland, Oreg. "Oregon Brand Milk." (For Evaporated Unsweetened Milk.) No. 24,837; Aug. 8.
Hires, Charles E., Company, The, Philadelphia, Pa. "Hires Household Extract for Making Ginger Ale at Home." (For Cartons Containing Ginger-Ale Extract.) No. 24,838; Aug. 8.
Hirschler & Co. (See Hirschler, Lee M.)
Hirschler, Lee M., doing business as Hirschler & Co., Cincinnati, Ohio. "Ohio." (For Malt Extract.) No. 24,839; Aug. 8.
Hirschler, Lee M., doing business as Hirschler & Co., Cincinnati, Ohio. "Great Western." (For Malt Extract.) No. 24,840; Aug. 8.
Hirschler, Lee M., doing business as Hirschler & Co., Cincinnati, Ohio. "Old Holland." (For Malt Extract.) No. 24,841; Aug. 8.
Huff, Oliver W., doing business as Dr. Huff's Tooth Powder Co., Hot Springs, Ark. "Dr. Huff's Combination Tooth Powder and Mouth Wash Will Neutralize the Acids and Prevent Fermentation." (For Metal or Other Containers for Tooth Powder.) No. 24,842; Aug. 8.
Kern, George, Inc., New York, N. Y. "Kern's Sliced Bacon." (For Sliced Bacon.) No. 24,843; Aug. 8.
Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. "Iris." (For Cantaloupes.) No. 24,845; Aug. 8.
Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. "Always Best." (For Oranges.) No. 24,846; Aug. 8.
Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. "Orchid." (For Grapes.) No. 24,847; Aug. 8.
Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. "4 Most." (For Oranges.) No. 24,848; Aug. 8.
Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. "Iris." (For Fresh Grapes.) No. 24,849; Aug. 8.
Lewis, H. & W. H., Inc., Philadelphia, Pa. "Brook-Knit." (For Pure-Wool Knit Cloth.) No. 24,850; Aug. 8.
Louisville Coffee Company, The, Louisville, Ky. "Big Six." (For Coffee.) No. 24,851; Aug. 8.
Louisville Coffee Company, The, Louisville, Ky. "Big Ben." (For Coffee.) No. 24,852; Aug. 8.
Lovell-Buffington Tobacco Co., Covington, Ky. "Kentucky Club Smoking Mixture." (For Smoking Tobacco.) No. 24,853; Aug. 8.
Lovell-Buffington Tobacco Co., Covington, Ky. "Crest High Grade Granulated Cut Plug Smoking." (For Smoking Tobacco.) No. 24,854; Aug. 8.
Marsh, Caroline F., Portland, Me. "I•S•I•S." (For a New Preparation for Washing and Healing Bleeding Gums and as a Mouth Wash.) No. 24,827; Aug. 8.
Pierini, Attilio, doing business as Great Northern Fur Dyeing & Dressing Co., Brooklyn, N. Y. "Famous—Sealines—Molines—Hudson—Seal." (For Furs and Skins.) No. 24,855; Aug. 8.
Pierini, Attilio, doing business as Great Northern Fur Dyeing & Dressing Company, Brooklyn, N. Y. "Northern Seal." (For Furs and Skins.) No. 24,856; Aug. 8.
Price, Eugene S., New York, N. Y. "Gastroids." (For a Remedy for the Liver and Stomach.) No. 24,857; Aug. 8.
Radio-Films, Inc., Hollywood, Calif. "Listening In." (For Motion-Picture Films.) No. 24,858; Aug. 8.
Radiograms, Inc., Hollywood, Calif. "Radiograms." (For Motion-Picture Films.) No. 24,859; Aug. 8.
Schneider, Fred M., Blue Island, Ill. "Schneider's Simplex System of Instruction for Violin, Mandolin, and Mandolin-Banjo." (For Instruction Books and Phonograph Records for Use in Teaching Music.) No. 24,860; Aug. 8.
Short, David L. (See West, Augustus A., assignor.)
Silveira & Lorenz, Vallejo, Calif. "S and L Superlative Automobile Polish." (For Bottles, Cans, Cartons, or Other Containers in Which the Automobile Polish Is Marketed.) No. 24,861; Aug. 8.
Steinfeld Bros., New York, N. Y. "Jewel Freezer." (For Ice-Cream Freezers.) No. 24,862; Aug. 8.
West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. "Classique." (For Hair Nets.) No. 24,863; Aug. 8.
West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. "The Every-Day Net." (For Hair Nets.) No. 24,864; Aug. 8.
West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. "Town and Country Nets." (For Hair Nets.) No. 24,865; Aug. 8.
West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. "Simplicity." (For Hair Nets.) No. 24,866; Aug. 8.
Wrigley Pharmaceutical Co., Philadelphia, Pa. "The Test That Proves Spearmint Tooth Paste Good for Children—and Grown Ups Too!" (For Tooth Paste.) No. 24,867; Aug. 8.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Aromint Mfg. Company, The, Cincinnati, Ohio. "The World Knows—." (For Advertising Purposes for Candy.) No. 6,253; Aug. 8.

Cattaraugus Cutlery Co., The, Little Valley, N. Y. "Cattaraugus Scout." (For Advertising Purposes for Knives.) No. 6,254; Aug. 8.

Miles Manufacturing Company Incorporated, The, Los Angeles, Calif. "This is Jell-Well." (For Advertising Purposes for Compound of Sugar, Gelatin, and Fruit Acid.) No. 6,255; Aug. 8.

Squibb, E. R., & Sons, New York, N. Y. "Perfected For You." (For Advertising Purposes for Drugs.) No. 6,256; Aug. 8.

Squibb, E. R., & Sons, New York, N. Y. "Dependability Plus." (For Advertising Purposes for Drugs.) No. 6,257; Aug. 8.

Squibb, E. R., & Sons, New York, N. Y. "Steadfast Through the Years." (For Advertising Purposes for Drugs.) No. 6,258; Aug. 8.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adams, Hattie V., doing business as Azulikit Mfg. Co., Chicago, Ill. Hair tonic and hair pomade. No. 160,457; Aug. 8.

Albemarle Paper Mfg. Co., The, Richmond, Va. Matrix paper, stereotype and Kraft wrapping paper. No. 162,280; Aug. 8.

American Gear Company, Chicago, Ill. Gears and shafts for automobile axles and transmissions. No. 161,103; Aug. 8.

American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Malt sugar. No. 160,041; Aug. 8.

American Lady Corset Co., Detroit, Mich. Corsets, brassières, corset waists, bandeaux, etc. No. 154,167; Aug. 8.

American Safety Razor Corporation, New York and Brooklyn, N. Y. Razor sets. No. 160,854; Aug. 8.

Amertex Mills, Inc., The Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, capes, suits, costumes, etc. No. 160,850; Aug. 8.

Atkins-Blakeney Chemical Company, Scranton, Pa., and Syracuse, N. Y. Cold cream, antiseptics for intestinal injections, liniment, etc. No. 162,281; Aug. 8.

Automac Company, The. (See Mackey, A. G.)

Avosal Co. (See Bommer, Arno M.)

Azulikit Mfg. Co. (See Adams, Hattie V.)

Beach Publishing Co., Detroit, Mich. Traveler's expense book. No. 166,029; Aug. 8.

Belcher Remedy Co., Brooklyn, N. Y. Salve for piles or hemorrhoids. No. 161,410; Aug. 8.

Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Self-rising wheat flour. No. 141,749; Aug. 8.

Bernhardt, Morris, New York, N. Y. Corn cure. No. 161,296; Aug. 8.

Berwald, Philip M., Bradford, Pa. Chemical compound for use in connection with the removal of solid material from the oil-bearing sand in oil wells. No. 159,644; Aug. 8.

Bommer, Arno M., doing business as Avosal Co., Revere, Mass. Tooth paste. No. 162,868; Aug. 8.

Borell, John, New York, N. Y. Hair tonic and restorer. No. 162,663; Aug. 8.

Borgfeldt, George, & Co., New York, N. Y. China tableware. No. 166,343; Aug. 8.

Brann, Thomas F., doing business as Digestalac Co., Lincoln, Kans. Laxative compound for aiding digestion. No. 162,372; Aug. 8.

Briden, L. L., & Co., Boston, Mass. Dyes. No. 162,665; Aug. 8.

Brouwer, S. J., Shoe Company, Milwaukee, Wis. Shoes. No. 149,120; Aug. 8.

Brownsville Canning Co., Corvallis, Oreg. Canned fruits and vegetables. No. 142,126; Aug. 8.

Buisson, Albert, Paris, France. Sedative, antispasmodic, analgesic, and hypnotic. No. 162,661; Aug. 8.

Carbon Chase Co., Long Island City, N. Y. Chemical carbon remover. No. 161,973; Aug. 8.

Chapelle, Philippe, Paris, France, and New York, N. Y. Medicinal and prophylactic preventive of venereal diseases. No. 161,170; Aug. 8.

Chatfield & Woods Company, The, Cincinnati, Ohio. Toilet paper. No. 164,630; Aug. 8.

Cleveland Detroit Camera Company, Cleveland, Ohio. Cameras, motion-picture taking and projecting machines, etc. No. 161,176; Aug. 8.

Cohn, Louis I., doing business as Stays Neat Mattress Company, Philadelphia, Pa. Matresses. No. 166,131; Aug. 8.

Colton & Collins, Inc., Oakland, Calif. Ointment and solution for use in the treatment of eczema and sirup sanguinaria compound for colds and coughs. No. 132,170; Aug. 8.

Columbia Coffee Co. Inc., The, Boston, Mass. Coffee. No. 159,846; Aug. 8.

Columbia Mills, Inc., The, New York, N. Y. Cotton goods in the piece or roll. No. 165,851; Aug. 8.

Craig, Clinton D., Whitefield, N. H. Medicinal preparation for external and internal inflammation. No. 162,482; Aug. 8.

Creger, Henry N., doing business as Red Gum Products Co., San Francisco, Calif. Dental preparation—viz, tooth paste and mouth wash. No. 162,719; Aug. 8.

Crystal Creamed Ice Machine Co., Los Angeles, Calif., and Cincinnati, Ohio. Machines for powdering ice. No. 160,790; Aug. 8.

Davis, W. B., & Son, Fort Payne, Ala. Hosiery. No. 160,695; Aug. 8.

Dendoc Company, The, Milwaukee, Wis. Dentists' and doctors' record blanks. No. 147,188; Aug. 8.

Dhinaut, Paul F., North Fayette Township, Allegheny County, Pa. Preparation for the treatment of sores, boils, chapped hands, etc. No. 162,291; Aug. 8.

Digestalac Co. (See Brann, Thomas F.)

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. No. 160,191; Aug. 8.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Crayons. No. 165,356; Aug. 8.

Dudley Paper Co., The, Lansing, Mich. Toilet paper. No. 165,856; Aug. 8.

Ecuadorian Panama Hat Company. (See Israel, Elias.)

Ellsworth & Thayer Mfg. Co., Milwaukee, Wis. Fur coats, sheepskin coats and vests, etc. No. 153,927; Aug. 8.

Esposito, Tony, Los Angeles, Calif. Preparation for the hair to promote the growth thereof and as a cure for dandruff. No. 162,727; Aug. 8.

Esty, Irving P., Providence, R. I. Lubricating oil. No. 141,574; Aug. 8.

Everitt, C. M., and J. P. Todd, Inc., Seattle, Wash. Canned fish. No. 159,858; Aug. 8.

Evong Co., The. (See Strong, John L.)

Fairchild Bros. & Foster, New York, N. Y. Preparation of the pancreas gland designed for internal use in the treatment of pancreatic insufficiency. No. 162,166; Aug. 8.

Famo Nut Co., Los Angeles, Calif. Chocolate candies and chocolate-covered nuts. No. 159,794; Aug. 8.

Fatuch & Nogaim, El Paso, Tex. Children's, women's, and men's hose. No. 157,920; Aug. 8.

Feil, S. R., doing business as The Ivosan Laboratory, Cleveland, Ohio. Vermifuge and stock conditioner. No. 162,874; Aug. 8.

Fitzgerald, Stephen A., Brooklyn, N. Y. Massaging liniment. No. 162,488; Aug. 8.

Fortune Products Company, Chicago, Ill. Cocoa. No. 159,652; Aug. 8.

Freeman, Louis G., Co., The, Cincinnati, Ohio. Machinery used in the manufacture of shoes. No. 161,986; Aug. 8.

General Steel & Rubber Stamp Co., Boston, Mass. Steel stamps. No. 161,832; Aug. 8.

Ghiglione, A. F., & Sons, Inc., Seattle, Wash. Alimentary paste. Nos. 159,865–6; Aug. 8.

Gilbert Paper Co., Menasha, Wis. Writing paper. No. 164,805; Aug. 8.

Gilman-Winter Paper Company. Paper for all purposes. No. 162,676; Aug. 8.

Golden Belt Manufacturing Company, Durham, N. C. Hosiery. No. 160,242; Aug. 8.

Golding Fabrics Corporation, New York, N. Y. Silk and artificial silk piece goods. No. 166,300; Aug. 8.

Griffith, Frances M., Rochester, N. Y. Face powders and creams, rouges, skin and toilet waters, etc. No. 162,734; Aug. 8.

Griffith, John A., Co., Chicago, Ill. Textile suitings for men. No. 163,871; Aug. 8.

Grossmann, J., & Co., Inc., New York, N. Y. Cotton piece goods. No. 162,989; Aug. 8.

Halpert Mills, Inc., The, Brooklyn, N. Y. Olive oil. No. 160,341; Aug. 8.

Hardeman-King Co., McAlester, Okla. Feed, alfalfa, molasses, corn meal, wheat and rye flours. No. 150,811; Aug. 8.

Hawaiian Pineapple Company, Limited, San Francisco, Calif. Canned pineapple. No. 160,193; Aug. 8.

Heller Brothers Company, Newark, N. J. Files and rasps. No. 160,809; Aug. 8.

Herbert Packing Co., San Jose, Calif. Canned fruits and vegetables. No. 160,188; Aug. 8.

Hill-Curtis Co., Kalamazoo, Mich. Sawing and trimming machines. No. 160,603; Aug. 8.

Hough Shade Corporation, Janesville, Wis. Wood-slat shades. No. 164,594; Aug. 8.

Imperial Valley Vegetable and Melon Growers Association, Brawley, Calif. Muskmelons. No. 159,967; Aug. 8.

Independent Chemical Company, Incorporated, Hartford, Conn. Automobile and furniture polish. No. 141,635; Aug. 8.

International Bedding Co. Inc., Baltimore, Md. Mattresses, pillows, and box springs. No. 164,054; Aug. 8.

International Cotton Protecting Company, Wilmington, Del., and Chicago, Ill. Solutions and materials for treating cotton for rendering it proof against flash and spark fires, etc. No. 162,012; Aug. 8.

Israel, Elias, doing business as Ecuadorian Panama Hat Company, New York, N. Y. Woven fabric hats. No. 160,063; Aug. 8.

Ivosan Laboratory, The. (See Feil, S. R.)

Jacoby, Jacob J., Company Inc., New York, N. Y. Silk piece goods, cotton piece goods, and silk and cotton mixture piece goods. No. 166,003; Aug. 8.

Joerns & Johns Printing Company, St. Louis, Mo. Letterheads, envelopes, and cards. No. 162,114; Aug. 8.

Johnson-Locke Mercantile Co., The, San Francisco, Calif. Crepe-paper napkins. No. 164,918; Aug. 8.

Johnson, William B., Atlanta, Ga. Bread products. No. 162,257; Aug. 8.

Johnson, William H., Garden City, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Soaps, shaving soaps, shaving creams, metal polish, etc. No. 162,928; Aug. 8.

Jones, Vess, New York, N. Y. Ice cream in either brick form or in bulk. No. 160,187; Aug. 8.

Jordan Marsh Company, Boston, Mass. Buttons made of glass, bone, wood, etc., and not of precious metal. No. 162,306; Aug. 8.

Jordan Marsh Company, Boston, Mass. Chinaware. No. 164,545; Aug. 8.

Kabushiki Kaisha Hirao Sampei Shoten, Tokyo, Japan. Cosmetic preparations. No. 157,927; Aug. 8.

Kio Company, The, New York, N. Y. Cleaning and renovating compounds. No. 162,935; Aug. 8.

Klein, Jos., Company, The, New York, N. Y. Boys' suits. No. 159,757; Aug. 8.

Knobby Products Co. (See Russell, Frank.)

Koken Companies, St. Louis, Mo. Preparation for the hair. No. 162,343; Aug. 8.

Koken Companies, Wilmington, Del., and St. Louis, Mo. Razor strops. No. 158,623; Aug. 8.

Lamb Knit Goods Co., The, Colon, Mich. Men's, boys', and ladies' sweaters and vests. No. 159,801; Aug. 8.

Lancaster Iron Works, Inc., Lancaster, Pa. Brick machines. No. 160,765; Aug. 8.

Lansburgh & Brother, Washington, D. C. Refrigerators. No. 163,993; Aug. 8.

La Tulle Herb Co., Los Angeles, Calif. Lotion for darkening gray hair, facial creams, toilet lotions, etc. No. 162,344; Aug. 8.

Levy, Maurice, New York, N. Y. Rouge. No. 162,687; Aug. 8.

Lewis, Jacob W., New York, N. Y. Boys' suits. No. 161,262; Aug. 8.

Lexington Chemical Co., Inc., Boston, Mass. Ferrous carbonate pill. No. 162,185; Aug. 8.

Littlehale, P. B., doing business as Moth K-L Company, New York, N. Y. Liquid preparation for protection against moths. No. 162,686; Aug. 8.

Lohmann, John, Kingston, Pa. Preparation for the treatment of gallstones and diseases of the kidneys, liver, and bowels. No. 162,345; Aug. 8.

Loose-Wiles Biscuit Company, Kansas City, Mo. Candy, specifically chocolate bars. No. 159,803; Aug. 8.

Mackey, A. G., doing business as The Automac Company, Washington, D. C. Bill-file holders, pad and memoranda holders for desks, etc. No. 162,499; Aug. 8.

Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 166,009; Aug. 8.

Manning Abrasive Company Incorporated, Troy and New York, N. Y. Abrasives. No. 161,930; Aug. 8.

Marsalise, B., Chemical M'f'g. Co. (See Marsalise, Ben.)

Marsalise, Ben, doing business as B. Marsalise Chemical M'f'g. Co., De Ridder, La. Liniment for use in treatment of backache, headache, rheumatism, etc. No. 156,055; Aug. 8.

Marshall Field & Company, Chicago, Ill. Button machines, molds, and dies. No. 161,540; Aug. 8.

Marshall Field & Company, Chicago, Ill. Cotton dress goods in the piece. No. 165,937; Aug. 8.

Marshall Field & Company, Chicago, Ill. Piece goods—namely, muslins. No. 140,309; Aug. 8.

Marshall Field & Company, Chicago, Ill. Wilton rugs. No. 165,934; Aug. 8.

Marshall Field & Company, Chicago, Ill. Writing paper and envelopes. Nos. 166,062–3; Aug. 8.

Marshall Field & Company, Chicago, Ill. Writing tablets and papeteries. No. 164,896; Aug 8.

Maryland Assurance Corporation, Baltimore, Md. Monthly magazine or periodical. No. 161,009; Aug. 8.

Matthews, Johnie B., New York, N. Y. Hand paste. No. 148,502; Aug. 8.

Mead, Charles A., doing business as Nu-Ma Manufacturing Company, Chicago, Ill. Salve for coughs, colds, bronchitis, croups, etc. No. 159,099; Aug. 8.

Meridian Textile Corporation, New York, N. Y. Silk, wool, cotton, linen piece goods, and combinations thereof. No. 166,392; Aug. 8.

Merrow Machine Company, The, Hartford, Conn. Loopers for overseaming and overedging sewing machines. Nos. 161,737–44; Aug. 8.

Messineo, Emanuele J., New York, N. Y. Liniment for rheumatism, neuralgia, gout, and analogous inflammatory ailments. No. 161,563; Aug. 8.

Migel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 163,819; Aug. 8.

Minard Company, Framingham and South Framingham, Mass. Liquid rub. No. 162,883; Aug. 8.

Moline Plow Company, Moline, Ill. All kinds of plows, plowshares, and plow parts. No. 160,421; Aug. 8.

Moneb Chemical Co., Kansas City, Mo. Liquid insect killer. No. 162,758; Aug. 8.

Moth K-L Company. (See Littlehale, P. B.)

Motor Economists, Inc., Los Angeles, Calif. Carburetors. No. 161,057; Aug. 8.

National Thrift System Company, The, Scranton, Pa. Depositor's pass books of its school bank and savings club. No. 160,961; Aug. 8.

New York-New England Company, The, Holyoke, Mass. Writing and printing papers and ledger, record, vellum, envelope, text, book, coated, and covering papers. No. 136,717; Aug. 8.

Newark Tortoise Shell Novelty Co., Newark, N. J. Hand mirrors and picture frames. No. 162,692; Aug. 8.

Nu-Ma Manufacturing Company. (See Mead, Charles A.)

O'B—Special Trust, Beloit, Kans. Medicines of a general tonic and disease preventing nature. No. 162,262; Aug. 8.

Olney, Amsden, & Sons Ltd., London, England. Knitting pins. No. 162,041; Aug. 8.

Ottawa Cushion Co., Ottawa, Ill. Porch-swing cushions and pads, chair cushions and pads, mats, etc. No. 164,941; Aug. 8.

Ozzyn Company, New York, N. Y. Face powders, creams, perfumes, toilet waters, rouges, etc. No. 162,642; Aug. 8.

Peep-In Company, Oakland, Calif. Display and storage cabinets. No. 164,191; Aug. 8.

Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' ready-to-wear clothing. Nos. 157,949–50; Aug. 8.

Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' ready-to-wear clothing. No. 158,139; Aug. 8.

Pharmocraft M'f'g. Co. (See Selkin, Saul J.)

Philipsborn's, Inc., Chicago, Ill. Cloth made of cotton, linen, silk, or wool. No. 156,857; Aug. 8.

Philipsborn's, Inc., Chicago, Ill. Silk, satin, and silk and cotton mixtures. No. 156,855; Aug. 8.

Philipsborn's, Inc., Chicago, Ill. Woolen blankets, comforters, and quilts. No. 156,856; Aug. 8.

Pohlmann, Herman G., Chicago, Ill. Writing paper and envelopes. No. 165,031; Aug. 8.

Pohlson, Carl V., doing business as The Pohlson Galleries, Pawtucket, R. I. Chemical preparation for use on burning material to color the flames. Nos. 162,446–7; Aug. 8.

Pohlson Galleries, The. (See Pohlson, Carl V.)

President Knitting Mills, Inc., New York, N. Y. Children's coats, sweaters, slip-ons, and suits. No. 160,298; Aug. 8.

Professional Products Co., Pasadena, Calif. Internal remedy for indigestion. No. 162,569; Aug. 8.

Professional Products Co., Pasadena, Calif. Salve for skin diseases. No. 162,505; Aug. 8.

Radium Company of Colorado, The, Denver, Colo. Radium products as a therapeutical agent. No. 157,850; Aug. 8.

Red Gum Products Co. (See Creger, Henry N.)

Rockwell & Forester, Inc., Waterbury and Bridgeport, Conn. Hosiery. No. 160,903; Aug. 8.

Rogers Milk Corporation, New York, N. Y. Condensed and evaporated milk. No. 159,766; Aug. 8.

Rose & Frank Co., New York, N. Y. Tissue paper mainly used for carbonizing purposes. No. 162,579; Aug. 8.

Rounick, Max, Philadelphia, Pa. Hosiery. No. 160,432; Aug. 8.

Rowlett & Outland Medicine Co., Hamlin, Ky. Preparation for the treatment of scrofula. No. 162,770; Aug. 8.

Russell, Frank, doing business as Knobby Products Co., New York, N. Y. Pickles. No. 160,257; Aug. 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Rutland Fire Clay Co., Rutland, Vt. Water-glass egg preserver. No. 162,454; Aug. 8.

Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Fabrics in the piece made wholly or in part of silk, cotton, and wool, blankets, automobile robes, steamer rugs, etc. No. 165,726; Aug. 8.

Salt's Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, suits, etc. No. 159,113; Aug. 8.

Samoset Chocolates Company, Boston, Mass. Candy. No. 160,264; Aug. 8.

Sanborn, Cora A., Brooklyn, N. Y. Fruit confection. No. 160,029; Aug. 8.

Schmidt, Albert H., Chicago, Ill. Cleansing cream. No. 162,774; Aug. 8.

Schwarzbart, Adolph, New York, N. Y. Bath tablets and odorizers. No. 162,709; Aug. 8.

Selkin, Saul J., doing business as Pharmocraft M'f'g. Co., New York, N. Y. Building-up tonic and milk adjuvant. No. 162,897; Aug. 8.

Shapiro, Louis, doing business as Louis Shapiro and Co., Mount Vernon, N. Y. Men's ready-made suits and overcoats. No 160,087; Aug. 8.

Shawmut Woolen Mills, Stoughton, Mass., and New York, N. Y. Worsted fabrics or cloths in the bolt. No. 163,010; Aug. 8.

Smith Brothers, Inc., Poughkeepsie, N. Y. Candy. Nos. 159,722–3; Aug. 8.

Snows Candy Corporation, Chicago, Ill. Candy. No. 159,721; Aug. 8.

Souchon Riom & Cie, Paris, France. Cotton goods in the piece. No. 166,408; Aug. 8.

Soulé Steam Feed Works, Meridian, Miss. Steam engines. No. 161,068; Aug. 8.

Spring Knit Hosiery Co., Philadelphia, Pa. Hosiery for women, misses, and children. No. 159,982; Aug. 8.

Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. White mineral oil used in the preparation of cold creams. No. 162,590; Aug. 8.

Standard Oil Company of New York, New York, N. Y. Soap. No. 162,899; Aug. 8.

Stays Neat Mattress Company. (See Cohen, Louis I.)

Stewart & Holmes Drug Co., Seattle, Wash. Toilet, laundry, and dry-cleaning soap, razor strops, liquid preparations for cleaning cloth, and metal polish. No. 162,907; Aug. 8.

Strong, John L., doing business as The Evong Co., Sioux City, Iowa. Chocolate-coated confection bars. No. 159,666; Aug. 8.

Tauber, Lipton & Co., New York, N. Y. Men's and boys' nightrobes and pyjamas. No. 151,339; Aug. 8.

Tin Decorating Company of Baltimore, The. (See Johnson, William H., assignor.)

Treeline Suit Company, New York, N. Y. Ladies' and misses' capes. No. 160,726; Aug. 8.

United Fig & Date Company, The, Chicago, Ill. Salted peanuts and almonds, peanut butter. No. 139,555; Aug. 8.

United States Envelope Company, Springfield, Mass. Envelopes. No. 158,495; Aug. 8.

Virden Packing Company, Oakland, Calif. Canned fruit. No. 159,984; Aug. 8.

Virden Packing Company, Oakland, Calif. Canned fruits. Nos. 159,985–7; Aug. 8.

Vit Candy Co. Inc., Brooklyn, N. Y. Candies. No. 159,639; Aug. 8.

Walton, D. S., & Co., New York, N. Y. Toilet paper. No. 156,977; Aug. 8.

Wander, S., & Sons, Chemical Co. Inc., Albany, N. Y. Lye for sanitary, household, or domestic use. No. 158,026; Aug. 8.

Watkins, R. L., Company, The, Cleveland, Ohio. Preparation for improving the appearance and facilitating the dressing of the hair. No. 158,841; Aug. 8.

Wease, J. W., Company, Muncie, Ind. Metal polishes. No. 163,124; Aug. 8.

Weisman Bros. & Epstein, New York, N. Y. Women's clothing and underwear. No. 160,221; Aug. 8.

West Branch Knitting Company, Milton, Pa. Hosiery and knit underwear. No. 160,037; Aug. 8.

West Electric Hair Curler Company, Philadelphia, Pa. Hair nets. No. 159,132; Aug. 8.

Western Tablet & Stationery Company, St. Joseph, Mo. Writing tablets. No. 165,221; Aug. 8.

Williams, Columbus E., Concordia, Kans. Disinfectants and insecticides. No. 161,950; Aug. 8.

Wilson, Warren D., Los Angeles, Calif. Lubricating, illuminating, and fuel oils. No. 140,367; Aug. 8.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF AUGUST, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acetic anhydride, Manufacture of. H. W. Matheson and G. E. Grattan. No. 1,425,500; Aug. 8.

Adjuster. H. E. Brown. No. 1,424,799; Aug. 8.

Aeroplanes, Means for stabilizing. S. De Santis. No. 1,425,455; Aug. 8.

Air clamps, Safety insertable auxiliary lever for. D. C. Klausmeyer. No. 1,425,388; Aug. 8.

Air cooling and circulating device. G. L. Menk. No. 1,424,843; Aug. 8.

Airplanes, Wing construction for. D. E. Dunlap. No. 1,424,996; Aug. 8.

Air vent and vacuum seal. C. V. Dean and C. A. Simonds. No. 1,424,756; Aug. 8.

Alarm: *See*—
Auto theft alarm. Electric signal alarm.
Burglar alarm. Fire alarm.

Alkali-metal silicates in blast furnaces, Producing. S. Peacock. No. 1,425,048; Aug. 8.

Alloy. S. M. Meyer and W. James. No. 1,425,330; Aug. 8.

Alloy. W. H. Smith. No. 1,424,782; Aug. 8.

Amusement device. H. B. Loeb. No. 1,425,264; Aug. 8.

Animal trap. J. Kendzierski. No. 1,424,827; Aug. 8.

Animal trap. T. Yamasaki. No. 1,425,355; Aug. 8.

Antimiring device. H. G. Carroll. No. 1,425,448; Aug. 8.

Antiskid and traction device. F. W. Myers. No. 1,425,037; Aug. 8.

Auto theft alarm. J. L. Crosser. No. 1,424,993; Aug. 8.

Autographic register. H. L. Roberts. No. 1,424,940; Aug. 8.

Automobile appliance. T. Ramage. No. 1,424,942; Aug. 8.

Automobile bumper. R. B. Older. No. 1,425,272; Aug. 8.

Automobile curtain. G. E. Bishop. No. 1,425,443; Aug. 8.

Automobile heater. W. Jean. No. 1,425,483; Aug. 8.

Automobile inclosure. G. E. Bishop. No. 1,425,442; Aug. 8.

Automobile inclosure. G. E. Bishop. Nos. 1,425,444–5; Aug. 8.

Automobile jack. S. J. Rice. No. 1,425,134; Aug. 8.

Automobile lock. J. A. Murphey. No. 1,425,408; Aug. 8.

Automobile securing device. H. W. Van Tilburg. No. 1,424,957; Aug. 8.

Automobile top. M. R. Hull. No. 1,425,014; Aug. 8.

Automobile wheels, Locking device for. A. M. Cummings. (Reissue.) No. 15,428; Aug. 8.

Automobiles, etc., Glare guard for windshields for. W. D. Pickard. No. 1,424,939; Aug. 8.

Automobiles, Footing for. W. Jury. No. 1,425,101; Aug. 8.

Automobiles, Rear axle attachment for. W. D. Pickard. No. 1,424,940; Aug. 8.

Automobiles, Transmission system for. H. L. Tanner. No. 1,424,860; Aug. 8.

Automobiles, Winter inclosure for. N. A. Michna. No. 1,425,031; Aug. 8.

Bag: *See*—
Hand bag.

Bag and envelope. W. E. Lover. No. 1,424,836; Aug. 8.

Bag-filling machine. C. H. Howard. No. 1,425,481; Aug. 8.

Bag or capsule making machine, Folding device for. G. Öström. No. 1,425,044; Aug. 8.

Bank-deposit receiver. J. K. Lowe. No. 1,425,400; Aug. 8.

Bar bender. T. Kardong. No. 1,425,261; Aug. 8.

Barbers' chairs, Reclining-bar clamp for. W. F. Koken. No. 1,425,325; Aug. 8.

Barrow and scraper, Combined. E. A. Transmeier. No. 1,425,424; Aug. 8.

Basket, Fruit. J. B. Kenny. No. 1,425,262; Aug. 8.

Basketware, Finishing articles in. G. B. Ambler and H. F. Shaw. No. 1,424,972; Aug. 8.

Bassinette, Folding. H. Behr. No. 1,424,796; Aug. 8.

Battery: *See*—
Electric storage battery.

Bean buncher. J. M. McIntyre. No. 1,424,839; Aug. 8.

Bearing for hydraulic turbine shafts. E. U. Gibbs. Nos. 1,425,378–9; Aug. 8.

Bearing lubricator. R. I. Frost. No. 1,425,000; Aug. 8.

Bed. J. Roever. No. 1,424,853; Aug. 8.

Bed, Folding. T. A. Logan, J. F. Brown, and C. E. Davis. No. 1,424,926; Aug. 8.

Beehive frame. F. W. Summerfield. No. 1,425,295; Aug. 8.

Belt, Drive. F. Mesinger. No. 1,424,767; Aug. 8.

Belt, Life. M. Heath. No. 1,425,475; Aug. 8.

Belt, Link. F. Mesinger. No. 1,424,768; Aug. 8.

Belt, Transmission. I. F. Kepler. No. 1,425,021; Aug. 8.

Bench dog. L. A. Matthews. No. 1,424,842; Aug. 8.

Berries, Box or container for. J. P. and J. P., jr., Hickman. No. 1,425,256; Aug. 8.

Bicycle pedal. C. A. Persons. No. 1,425,215; Aug. 8.

Binder, Joint. E. C. Glardon. No. 1,425,470; Aug. 8.

Binders, Attachment for. O. E. Callaway. No. 1,425,365; Aug. 8.

Binding machine, Vertical loose-leaf. H. M. Crippen. No. 1,424,753; Aug. 8.

Blind and curtain support, Combination. E. Zwahlen. No. 1,425,160; Aug. 8.

Blotter, Wrist. E. R. Bratland. No. 1,424,981; Aug. 8.

Blowtorch. F. E. Bingham. No. 1,425,362; Aug. 8.

Board: *See*—
Ironing board.

Boiler: *See*—
Water-tube boiler.

Boiler feed, Automatic. J. S. Lee. No. 1,425,394; Aug. 8.

Boilers, Arch for the fire boxes of. W. J. Stoop. No. 1,424,948; Aug. 8.

Boilers, Gasket for handhole plates for water-tube. P. H. Mahoney. No. 1,424,930; Aug. 8.

Bottle carrier. A. M. Pruitt. No. 1,425,417; Aug. 8.

Bottle carrier, Milk. W. W. De Long. No. 1,424,995; Aug. 8.

Bottle closure. T. L. Taliaferro. No. 1,425,349; Aug. 8.

Bottle inclosure. T. McNamee. No. 1,425,401; Aug. 8.

Bottle, Medicine. N. Dial. No. 1,425,456; Aug. 8.

Bottle, Nonrefillable. S. E. Freed. No. 1,424,892; Aug. 8.

Bottle stopper. O. Carlson. No. 1,425,237; Aug. 8.

Bottle stopper. C. F. Guard. No. 1,425,009; Aug. 8.

Bottle stopper. H. D. Vredenburgh. No. 1,424,862; Aug. 8.

Bottles or other vessels and apparatus therefor, Production of. M. Mathy. No. 1,425,124; Aug. 8.

Boutonnière holder. A. Hoffmann. No. 1,425,480; Aug. 8.

Box: *See*—
Folding box. Stuffing box.
Locomotive driving box.

Box opener. E. J. Kendall. No. 1,425,385; Aug. 8.

Brace. *See*—
Magazine brace.

Bracket: *See*—
Shade bracket.

Brake-band lining. A. L. Rennie. No. 1,424,852; Aug. 8.

Brake drum. V. W. Page. No. 1,425,414; Aug. 8.

Brick, Building. B. F. Weber. No. 1,425,302; Aug. 8.

Bricks, Process and machine for making. W. H. Haws. No. 1,425,010; Aug. 8.

Bridge shoe. R. Z. Drake. No. 1,425,320; Aug. 8.

Brief case. M. Klombers. No. 1,425,491; Aug. 8.

Broaching and surface finishing of holes or the like. J. McKechnie and T. Fender. No. 1,425,122; Aug. 8.

Broiler, Hotel. H. C. Maul. No. 1,425,501; Aug. 8.

Brush, Rotatable. G. B. Allen. No. 1,425,435; Aug. 8.

Brush, Waxing or polishing. S. M. Carlstedt. No. 1,424,879; Aug. 8.

Buck rake, Motor-driven. E. W. Reed. No. 1,424,943; Aug. 8.

Bucket. E. Griffiths. No. 1,425,195; Aug. 8.

Bucket and hoisting apparatus. F. A. Johnson. No. 1,424,910; Aug. 8.

Bucket, Dumping. W. H. Insley and A. C. Rasmussen. No. 1,425,383; Aug. 8.

Bucket, Self-adjusting dump. G. W. Slauter. No. 1,425,063; Aug. 8.

Buckle, Detachable shoe. W. White. No. 1,425,155; Aug. 8.

Buckle, Slide. A. J. Lewis. No. 1,425,396; Aug. 8.

Burglar alarm. J. A. Foley. No. 1,424,891; Aug. 8.

Burner: *See*—
Gas burner. Oil or gas burner.
Oil burner.

Burner. J. A. Dienner. No. 1,424,808; Aug. 8.

Burner. R. A. Grim. No. 1,424,817; Aug. 8.

Button. J. E. Potter. No. 1,425,131; Aug. 8.

Cabinet and piano, Combined. J. H. Dickinson. No. 1,424,885; Aug. 8.

Cabinet drier. H. Bentz. No. 1,425,314; Aug. 8.

Cable-take-up grip. R. E. Choate. No. 1,425,077; Aug. 8.
Cables, Conduit for power-transmitting. L. V. Homan. No. 1,425,090; Aug. 8.
Cages, Machine for manufacturing wire. W. E. Baker and W. F. Sonneman. No. 1,424,973; Aug. 8.
Calendar, Perpetual. J. J. Round. No. 1,425,137; Aug. 8.
Calipers, Extensible micrometer. P. Lustrik. No. 1,425,027; Aug. 8.
Camera and developing tank, Combination film. A. F. Grillone. No. 1,424,816; Aug. 8.
Can opener. R. H. Waller and G. Jackson. No. 1,424,960; Aug. 8.
Candle extinguisher. T. Cullen. No. 1,425,080; Aug. 8.
Cane-harvesting apparatus. C. C. Hobson. No. 1,425,479; Aug. 8.
Cane stripper. V. L. and T. Covey. No. 1,424,989; Aug. 8.
Capstan. A. A. Coyle and W. S. Mitchell. No. 1,424,990; Aug. 8.
Car door, Box-. O. Froman and W. A. Wilmoth. No. 1,424,812; Aug. 8.
Car door, Hopper-. W. P. Murphy. No. 1,425,210; Aug. 8.
Car-door-operating mechanism. A. Gottschalk. No. 1,424,814; Aug. 8.
Car, Railway. J. O. Neikirk. No. 1,424,770; Aug. 8.
Car step, Auxiliary. P. Swanson and A. Carlson. No. 1,425,149; Aug. 8.
Cars, Heating system for motor. J. F. Geisendorfer. No. 1,425,377; Aug. 8.
Cars, Safety appliance for street. D. O. Shively. No. 1,425,062; Aug. 8.
Carburetor. E. Rector. No. 1,425,339; Aug. 8.
Carburetors, Vaporizing attachment for. P. J. Lincoln. No. 1,425,108; Aug. 8.
Carrier: *See*—
Bottle carrier.
Carrier chain, Universal. B. H. Purcell. No. 1,424,850; Aug. 8.
Carton. J. Peterson. No. 1,425,335; Aug. 8.
Cartons, Corner reenforcement for. C. B. Taylor. No. 1,425,069; Aug. 8.
Case: *See*—
Brief case.
Casing-head attachment. F. Kinzbach. No. 1,425,022; Aug. 8.
Concrete slab for the erection of cellular structures. F. G. Lynde. No. 1,425,119; Aug. 8.
Cellulose acetate products, Treatment of. J. F. Briggs. No. 1,425,364; Aug. 8.
Cellulose ether solvent and composition. S. J. Carroll. No. 1,425,173; Aug. 8.
Centering device. L. B. Girard and F. L. Meneley. No. 1,424,895; Aug. 8.
Chair and table, Convertible. T. B. Worthington. No. 1,425,354; Aug. 8.
Chimneys of reenforced concrete, Mold for building. J. Quost. No. 1,424,775; Aug. 8.
Chocolate and similar products, Machine for molding. L. Levy. No. 1,425,395; Aug. 8.
Chopper: *See*—
Cotton chopper.
Chuck. D. N. Finlayson. No. 1,424,889; Aug. 8.
Chuck, Drill. C. A. Palmgren. No. 1,425,213; Aug. 8.
Chuck for screw machines, Automatic. C. F. Whitman. No. 1,425,226; Aug. 8.
Cigar and cigarette holder. R. F. Greenwood. No. 1,425,498; Aug. 8.
Cigarettes and the like, Case for. W. H. Lester. No. 1,424,834; Aug. 8.
Circuit breaker, Automatic. H. R. Kissinger. No. 1,424,921; Aug. 8.
Circulating device. E. E. Easton. No. 1,425,244; Aug. 8.
Clamp: *See*—
Connection clamp.
Clamp. G. M. Deane. No. 1,424,884; Aug. 8.
Clamp and vise combined, Three-in-one. C. P. Paulsen. No. 1,425,275; Aug. 8.
Clasp: *See*—
Key clasp.
Clasp. S. Cowdrill. No. 1,425,178; Aug. 8.
Clay bodies, Producing. G. W. Lapp. No. 1,424,924; Aug. 8.
Cleaner: *See*—
Matrix cleaner. Windshield cleaner.
Clothes-drying rack. D. B. Baker. No. 1,425,231; Aug. 8.
Clothes wringers, Drain board for. W. S. Ireland. No. 1,425,099; Aug. 8.
Clothesline, Clamping device for. C. L. Bartholome. No. 1,425,313; Aug. 8.
Clutch. V. Bendix. No. 1,425,360; Aug. 8.
Clutch. A. H. Clark. No. 1,424,987; Aug. 8.
Clutch. H. J. Widmaier. No. 1,425,156; Aug. 8.
Clutch lock. A. N. Merrill. No. 1,425,404; Aug. 8.
Coated fabric and making same. J. A. Wilson. Nos. 1,425,306–7; Aug. 8.
Coating composition or paint. M. R. Isaacs. No. 1,424,908; Aug. 8.
Coating, Method of and apparatus for applying. L. H. Parker and H. W. Day. No. 1,425,333; Aug. 8.
Coke in narrow containers, Process of and device for quenching. W. Schöndeling. No. 1,424,777; Aug. 8.
Colander, Mechanical. E. Wilson. No. 1,425,431; Aug. 8.
Collar, Fold. R. O. Kennedy, A. H. Gillespie, and R. C. Marshall. No. 1,424,918; Aug. 8.
Collars, Front fastening for soft. H. J. Vignenault. No. 1,425,153; Aug. 8.
Collars, Necktie-knot retainer for. W. and H. Karl. No. 1,424,763; Aug. 8.
Colter. E. J. Strout. No. 1,425,422; Aug. 8.
Comb. G. V. Miller. No. 1,425,269; Aug. 8.
Commutators, Spool or holder for. C. A. Van Dusen. No. 1,424,954; Aug. 8.
Compass, Gyroscopic. G. A. Rossiter. No. 1,425,056; Aug. 8.
Compasses, Jewel support for. E. W. Day. No. 1,424,804; Aug. 8.
Compasses, Straight-line guide for the handles of. A. Renzelberg. No. 1,425,133; Aug. 8.
Compressor. G. A. Gase. No. 1,425,192; Aug. 8.
Concrete construction. E. S. Luard. No. 1,425,114; Aug. 8.
Concrete roof-tile pallet. F. C. Hyten and P. J. Hawkins. No. 1,425,015; Aug. 8.
Concrete slab for walls or the like. F. G. Lynde. No. 1,425,118; Aug. 8.
Concrete slabs, walls, and other structures, Means for the construction of. F. G. Lynde. No. 1,425,117; Aug. 8.
Condenser. J. D. Stone. No. 1,424,786; Aug. 8.
Condiment holder. J. L. and C. O. Medici. No. 1,425,328; Aug. 8.
Conduits, Joint for electrical. J. C. Herron. No. 1,425,011; Aug. 8.
Connection clamp, Safety combination. F. H. Barney and D. S. Bowers. No. 1,425,164; Aug. 8.
Container. A. E. Bruns. No. 1,425,236; Aug. 8.
Control, Multiple mechanism. L. R. Buckendale. No. 1,425,316; Aug. 8.
Conveyer and mold separator. W. E. Simpson. No. 1,424,947; Aug. 8.
Cord tip. J. P. Kelly. No. 1,425,384; Aug. 8.
Cotton chopper. W. F. Mottler. No. 1,425,035; Aug. 8.
Countersinking machine. A. J. Coughtry. No. 1,424,988; Aug. 8.
Coupling: *See*—
Friction drive coupling.
Coupling. A. Maszczyk. No. 1,425,206; Aug. 8.
Crank-holding attachment. A. Gendron and C. Brière. No. 1,424,894; Aug. 8.
Crosshead. J. P. Lavole. No. 1,424,925; Aug. 8.
Crush work, Machine for shaping. E. W. Wiese, sr. No. 1,424,789; Aug. 8.
Crusher and packer, Clod. J. I. and L. I. Hoke. No. 1,424,906; Aug. 8.
Cutter: *See*—
Film cutter.
Cylinder, Textile and like drying. E. Farrell. No. 1,425,083; Aug. 8.
Cylinders, Gauge for. F. J. Pratt. No. 1,425,284; Aug. 8.
Dental crown structure. E. J. Rose. No. 1,425,055; Aug. 8.
Detachable washer. S. S. Dubbs. No. 1,425,182; Aug. 8.
Detonating device. K. Hampel. No. 1,425,198; Aug. 8.
Dextrin, Apparatus for manufacturing. J. J. Merrill. No. 1,425,497; Aug. 8.
Direction-indicating signal. J. A. Glancey. No. 1,424,813; Aug. 8.
Dispensing holder. F. F. Prihoda. No. 1,425,416; Aug. 8.
Dispensing machine. P. D. Parsons. No. 1,424,772; Aug. 8.
Display device. T. C. Howe. No. 1,425,259; Aug. 8.
Display rail. J. Nelson. No. 1,425,211; Aug. 8.
Distilling, Process and apparatus for. J. T. Fenton. No. 1,424,998; Aug. 8.
Door catch. F. G. Milkden. No. 1,425,271; Aug. 8.
Door holder. E. Posson. No. 1,425,282; Aug. 8.
Doors and partitions, Package receptacle for. J. A. C. Greene. No. 1,424,815; Aug. 8.
Dough-forming machine. L. De Vito. No. 1,424,806; Aug. 8.
Draft equalizer. I. D. Mitchell. No. 1,425,407; Aug. 8.
Drier: *See*—
Cabinet drier.
Drying method and means. E. F. White. No. 1,424,969; Aug. 8.
Drilling machine. A. L. Edwards. No. 1,424,997; Aug. 8.
Driving connection. J. P. Constable. No. 1,425,177; Aug. 8.
Dump, Automatic revolving. E. J. Best. No. 1,424,871; Aug. 8.
Dump, Automatic rolling. E. Ramsay. No. 1,425,051; Aug. 8.
Dust pan. J. A. Hall. No. 1,424,761; Aug. 8.
Dynamometer. C. M. Eason. No. 1,424,888; Aug. 8.
Egg beater. R. S. Lower. No. 1,425,026; Aug. 8.
Egg, Vermin-destroying nest. E. T. Stuart. No. 1,425,348; Aug. 8.
Electric heating appliances, Alloy for use in. G. H. Lofts. No. 1,425,111; Aug. 8.
Electric heating device, Pilot signal for. R. P. Farrell and C. E. Moon. No. 1,425,462; Aug. 8.
Electric lights, Cord support for. E. R. Frost. No. 1,424,999; Aug. 8.
Electric lock. H. D. Wethling. No. 1,425,428; Aug. 8.

Electric signal alarm. A. T. Pickett. No. 1,425,279; Aug. 8.
Electric storage battery. H. Bardt. No. 1,425,163; Aug. 8.
Electric storage battery. W. L. Gill. No. 1,425,469; Aug. 8.
Electric switch. H. P. Donle. No. 1,424,809; Aug. 8.
Electrical attachment plug. J. G. Peterson. No. 1,425,049; Aug. 8.
Electricity meters, Adjusting integrating. O. T. Blathy. No. 1,424,752; Aug. 8.
Electrode holder. W. C. Beiswinger and R. F. Morgan. No. 1,425,440; Aug. 8.
Elevators, Gate lifting and releasing mechanism for. A. H. Packard. No. 1,425,832; Aug. 8.
Engine: *See*—
Explosion engine. Internal-combustion engine.
Explosive engine.
Hydrocarbon engine.
Engine-cooling system. H. C. Verhey. No. 1,425,151; Aug. 8.
Engine starter. W. L. McGrath. No. 1,424,766; Aug. 8.
Engines, Packing means for rotary. E. E. Bidwell. No. 1,424,977; Aug. 8.
Engines, Valve mechanism for internal-combustion. A. L. P. Guéret. No. 1,425,381; Aug. 8.
Engravers, Plate twirler for. J. A. Carey. No. 1,424,986; Aug. 8.
Envelope, Combined sending and return. A. W. Geggie. No. 1,425,004; Aug. 8.
Esters and making same, New liquid phosphoric. A. L. Laska and H. H. C. Prillwitz. No. 1,425,392; Aug. 8.
Esters and making same, New mixed phosphoric. A. L. Laska and H. H. C. Prillwitz. No. 1,425,393; Aug. 8.
Evaporator. W. H. P. Creighton. No. 1,424,992; Aug. 8.
Expansion and counterboring bit, combined. W. F. Wall. No. 1,425,300; Aug. 8.
Explosion engine. R. Y. Bovee. No. 1,424,872; Aug. 8.
Explosive engine. H. B. Black. No. 1,424,798; Aug. 8.
Eyeleting machine, Duplex. G. W. Jacques. No. 1,425,016; Aug. 8.
Fabric, Machine for constructing a laminated cohesive interlaid. L. A. Subers and E. Mosman. No. 1,425,147; Aug. 8.
Fan. N. Warshaw. No. 1,424,864; Aug. 8.
Fan. B. C. Washington and S. K. Joice. No. 1,424,961; Aug. 8.
Farm gate. C. Nielsen. No. 1,425,411; Aug. 8.
Fastener. S. M. Corbett. No. 1,424,803; Aug. 8.
Fastening device. H. G. Goldstein. No. 1,425,006; Aug. 8.
Faucet, Adjustable mixing. O. G. Hitchcock. No. 1,425,478; Aug. 8.
Feeder, Poultry. J. C. Hostler. No. 1,425,013; Aug. 8.
Fertilizer pot. H. Kleb. No. 1,424,829; Aug. 8.
Fibers, Machine for combing textile. B. Schleifer. No. 1,425,059; Aug. 8.
Film cutter, Automatic electric. A. W. Miller and W. L. Conklin. No. 1,425,405; Aug. 8.
Film printing machine. G. L. Chanler. No. 1,425,450; Aug. 8.
Film-treatment cage. A. G. Boxell. No. 1,424,873; Aug. 8.
Finger prints and their classification, Device for studying. G. Williams. No. 1,425,157; Aug. 8.
Fire alarm. M. D. S. Riccio. No. 1,425,287; Aug. 8.
Fire-alarm system, Magnet. A. Wellert. No. 1,424,963; Aug. 8.
Fire extinguisher, Hand. W. H. Tibbals. No. 1,425,297; Aug. 8.
Fire screen. J. E. Sanders. No. 1,425,341; Aug. 8.
Firearm. O. V. Payne. No. 1,424,773; Aug. 8.
Fishing reel. S. G. Russell. No. 1,425,141; Aug. 8.
Flanged article. E. C. George. (Reissue.) No. 15,429; Aug. 8.
Flotation process. R. Luckenbach. No. 1,425,327; Aug. 8.
Folding box, Collapsible. S. F. Sutherland. No. 1,425,068; Aug. 8.
Food products and preparing same. S. Luft. No. 1,424,927; Aug. 8.
Foundry molding material. F. G. Dokkenwadel. No. 1,425,457; Aug. 8.
Fountain washing device. F. M. Brabrook. No. 1,424,874; Aug. 8.
Fourdrinier machine. A. J. Davies. No. 1,425,240; Aug. 8.
Frame: *See*—
Beehive frame.
Friction drive coupling. B. C. White. No. 1,425,305; Aug. 8.
Fuel distributor. H. F. Smith. No. 1,425,145; Aug. 8.
Fuel, Motor. F. W. Rohrs. No. 1,425,136; Aug. 8.
Fulcrum arrangement, Reversible. A. Sparrow. No. 1,425,064; Aug. 8.
Funnel. J. E. Jones and F. C. Newton. No. 1,425,100; Aug. 8.
Furnace front. J. H. Hume. No. 1,425,095; Aug. 8.
Furnaces, Automatic fan system for hot-air. N. B. Wales. No. 1,424,958; Aug. 8.
Game. J. W. Fischer. No. 1,425,464; Aug. 8.
Game. F. H. Haines and E. B. Parsons. No. 1,425,087; Aug. 8.
Game apparatus. E. W. Ford. No. 1,425,376; Aug. 8.
Garment fastener. A. M. Nadell. No. 1,425,038; Aug. 8.
Garment fastener. A. N. Turnquist. No. 1,424,953; Aug. 8.
Garter. R. M. Byers. No. 1,424,801; Aug. 8.
Gas burner. H. R. Humphrey. No. 1,425,097; Aug. 8.
Gas fires, Burner for. J. H. Grayson. No. 1,424,760; Aug. 8.
Gas heater and vaporizer. T. W. Gorman. No. 1,424,898; Aug. 8.
Gas, Means for cooling a. E. Jordan. No. 1,425,019; Aug. 8.
Gas meter and gas consumption, Apparatus for regulating fluid and gas pressure between. P. Lavarello fu Giuseppe. No. 1,425,105; Aug. 8.
Gas producers, Feeding mechanism for. C. W. Lummis. No. 1,425,115; Aug. 8.
Gate: *See*—
Farm gate.
Gate-operating mechanism. F. Kahler. No. 1,424,913; Aug. 8.
Gauge: *See*—
Grinding gauge. Indicating gauge.
Gauging and measuring instrument. F. A. G. Pirwitz. No. 1,424,941; Aug. 8.
Gear, Change-speed. A. Garelli. No. 1,425,002; Aug. 8.
Gear, Planetary. O. R. Wikander. No. 1,425,430; Aug. 8.
Gear-shifting mechanism. W. C. Stevens. No. 1,424,784; Aug. 8.
Gear-shift mechanism. E. B. Wiles. No. 1,424,790; Aug. 8.
Gear-shifting mechanism. G. W. Woodward. No. 1,425,227; Aug. 8.
Gear wheel. A. Nutini. No. 1,425,042; Aug. 8.
Gearing. G. M. Cameron-Cowburn. No. 1,425,172; Aug. 8.
Gearing. E. R. Huntley. No. 1,425,496; Aug. 8.
Gearing. B. C. White. No. 1,425,304; Aug. 8.
Gearing, Toothed. H. J. Schmick. No. 1,425,144; Aug. 8.
Girths, Machine for forming reenforcing. A. S. Kux. No. 1,424,831; Aug. 8.
Glass, Apparatus for drawing sheet. J. Whittemore. No. 1,425,225; Aug. 8.
Glass, Method and apparatus for drawing wire. C. A. Rowley. No. 1,425,218; Aug. 8.
Governor, High-pressure automatic burner. W. R. Ray. No. 1,425,338; Aug. 8.
Grate. O. W. Petersen. No. 1,424,937; Aug. 8.
Grave marker. V. Beroud. No. 1,425,361; Aug. 8.
Grinder. G. H. McFeaters. No. 1,425,121; Aug. 8.
Grinder. L. Quarles. No. 1,425,286; Aug. 8.
Grinder, Combined drill and valve. P. MacKenzie. No. 1,425,402; Aug. 8.
Grinder, Surface. C. Knowles. No. 1,424,764; Aug. 8.
Grinding gauge. F. J. Pratt. No. 1,425,283; Aug. 8.
Grinding machine. C. W. Olson. No. 1,425,331; Aug. 8.
Grinding mill. M. O. Anthony. No. 1,425,161; Aug. 8.
Ground-treating implement. A. Sprague. No. 1,424,857; Aug. 8.
Gun, Automatic rapid-fire machine. F. Baugerter. No. 1,424,751; Aug. 8.
Guns, Magazine for machine. J. C. R. McCrudden. No. 1,425,120; Aug. 8.
Hair curler. J. Goldsmith, jr. No. 1,424,897; Aug. 8.
Hair duster. P. A. Dinardo. No. 1,425,242; Aug. 8.
Hair, waving or curling. A. Craig. No. 1,424,991; Aug. 8.
Hairpin. G. T. Chase. No. 1,425,367; Aug. 8.
Hammer, Carpenter's. A. B. Coleman. No. 1,425,369; Aug. 8.
Hammer, Marking. A. J. Aselin. No. 1,425,357; Aug. 8.
Hand bag. F. Regulski. No. 1,425,217; Aug. 8.
Harrow. W. T. Wertman. No. 1,424,966; Aug. 8.
Hat support. F. B. Leonard. No. 1,424,833; Aug. 8.
Hatpin protector. F. H. George. No. 1,425,194; Aug. 8.
Hayrack. E. M. Bromley. No. 1,425,171; Aug. 8.
Haystacker. A. T. Loftsgarden. No. 1,425,399; Aug. 8.
Headlight, Dirigible. H. E. Beasley and W. Byrd. No. 1,425,439; Aug. 8.
Heat-collecting apparatus, Solar-. W. G. Cartter and E. D. Arthur. No. 1,425,174; Aug. 8.
Heat-treating apparatus. H. A. Lewis. No. 1,425,499; Aug. 8.
Heater: *See*—
Automobile heater. Storage heater.
Liquid heater.
Heating iron, Electric. N. A. Nelson. No. 1,425,040; Aug. 8.
Heating systems, Air exhaust for vapor. A. P. Crosby. No. 1,425,370; Aug. 8.
Heating systems, Thermostatic electric control for. E. E. Gold. No. 1,424,896; Aug. 8.
Heel, Shoe. L. S. Barron. No. 1,424,975; Aug. 8.
Hides, Machine for ungraining and softening. C. Franson. No. 1,425,467; Aug. 8.
Horse-blanket retainer. W. F. Warneford. No. 1,425,301. Aug. 8.
Horseshoe calk. A. Bulski. No. 1,424,800; Aug. 8.
Horseshoe, Lawn. C. Zingre. No. 1,424,869; Aug. 8.
Hose of predetermined action under pressure. L. A. Subers. No. 1,425,148; Aug. 8.
Hose-leg supporter. H. B. Newton. No. 1,424,771. Aug. 8.
Hose stand. B. E. Stone. No. 1,425,067; Aug. 8.
Hot-water tanks, Return-pipe connections for. A. R. Watson. No. 1,425,427; Aug. 8.
Humidor, Electric. J. E. Blount. No. 1,424,979; Aug. 8.
Hydrocarbon engine. H. R. Ricardo. No. 1,425,054; Aug. 8.

Hydroplane. R. P. Erhard. No. 1,424,811; Aug. 8.
Ice-cream container. R. K. Dent. No. 1,425,241; Aug. 8.
Ice-cream remover. J. Priskey. No. 1,425,337; Aug. 8.
Ignition system. V. A. Fynn. No. 1,425,001; Aug. 8.
Incubating. Apparatus for. C. M. Heck. No. 1,424,821; Aug. 8.
Indicating gauge. B. L. Gates. No. 1,425,193; Aug. 8.
Indicator: *See*—
Liquid-level indicator.
Internal-combustion engine. A. J. Rowledge. No. 1,425,057; Aug. 8.
Internal-combustion engine. R. G. Wells. No. 1,424,965; Aug. 8.
Iron: *See*—
Electric heating iron.
Ironing board, Folding. H. R. Meyer. No. 1,425,030; Aug. 8.
Jack: *See*—
Automobile jack. Truck jack.
Jars, Cover for preserving. J. H. Paige. No. 1,425,212; Aug. 8.
Jeweler's loupe. E. W. Paddison. No. 1,424,848; Aug. 8.
Jewelry and manufacturing the same. H. W. Fishel. No. 1,425,188; Aug. 8.
Jewelry tray. C. E. Chapman. No. 1,425,317; Aug. 8.
Joint: *See*—
Rail joint.
Journal-box lid. L. W. Hostettler. No. 1,425,092; Aug. 8.
Journal-box lids, Making. L. W. Hostettler. No. 1,425,093; Aug. 8.
Key clasp. J. P. Henry. No. 1,425,089; Aug. 8.
Kite. C. C. Reid. No. 1,425,419; Aug. 8.
Knitting machine. M. Laveen. No. 1,425,106; Aug. 8.
Knitting-machine needle and making same. F. W. Corey. No. 1,425,239; Aug. 8.
Knitting machines, Tucking mechanism for. F. W. Robinson. No. 1,425,288; Aug. 8.
Labeling machine. C. S. Weeks. No. 1,425,351; Aug. 8.
Ladder, Sidehill orchard. W. and M. H. Patersou. No. 1,424,934; Aug. 8.
Lamp, Vehicle. H. G. FitzGerald. No. 1,425,190; Aug. 8.
Lamps, Tilting reflector for. S. F. Arbuckle. No. 1,424,793; Aug. 8.
Latching mechanism. C. Pearson. No. 1,424,936; Aug. 8.
Lathe, Boring. R. L. Hibbard. No. 1,425,202; Aug. 8.
Lathes, Driving mechanism for wheel. J. K. Cullen. No. 1,424,754; Aug. 8.
Lens. T. W. Cooper. No. 1,425,452; Aug. 8.
Letter folder, Hand. J. L. Cowen. No. 1,424,881; Aug. 8.
Letter sheet, check, envelope, and carbon copy, Combined. W. E. Lover. No. 1,424,837; Aug. 8.
Light: *See*—
Safety light.
Liquid heater, Portable electric. O. W. Montgomery. No. 1,425,034; Aug. 8.
Liquid-level indicator. M. O. Lundin. No. 1,425,116; Aug. 8.
Liquors and apparatus therefor, Evaporating. W. Gensecke. No. 1,425,005; Aug. 8.
Liquors, Evaporating. E. Josse and W. Gensecke. No. 1,425,020; Aug. 8.
Lock: *See*—
Automobile lock. Mortise lock.
Clutch lock. Nut lock.
Electric lock. Sash lock.
Lock. C. P. Skublin. No. 1,425,221; Aug. 8.
Locomotive booster motors, Controlling mechanism for. F. R. Peters. No. 1,425,277; Aug. 8.
Locomotive driving box. A. T. Kuehner. Nos. 1,425,492–3; Aug. 8.
Locomotive frames, Jig for assembling. J. P. Sykes and S. R. Limerick. No. 1,425,296; Aug. 8.
Locomotive stoker. R. E. Jackson and B. O. Yearwood. No. 1,425,322; Aug. 8.
Locomotive, Storage-battery. C. A. Pratt. No. 1,424,849; Aug. 8.
Locomotives, Controlling device for electric. S. W. Farnham. No. 1,425,375; Aug. 8.
Looms for weaving, Stop motion of. H. Haigh. No. 1,425,252; Aug. 8.
Looms, Stop motion for. C. E. Vanhousebrouck. No. 1,424,956; Aug. 8.
Lubricating device. R. L. Barnett. No. 1,424,974; Aug. 8.
Lubricator: *See*—
Bearing lubricator.
Magazine brace. S. J. Morgan. No. 1,425,270; Aug. 8.
Magnetic separator. W. E. F. Bradley. No. 1,425,235; Aug. 8.
Mail bag mechanism. J. A. Starr. No. 1,424,858; Aug. 8.
Mail-bag receiver. D. W. Millsaps. No. 1,425,406; Aug. 8.
Mail delivery and receiving device. C. L. Biggs. No. 1,425,167; Aug. 8.
Mail distributor. G. M. Kitzmiller. No. 1,425,387; Aug. 8.
Manicuring instrument. M. H. Burk and E. M. Currier. No. 1,424,876; Aug. 8.
Map, Road. H. C. Kessler. No. 1,424,919; Aug. 8.
Marking articles, Machine for. W. A. Pierson. No. 1,425,280; Aug. 8.
Marking machine. F. A. Putnam. No. 1,425,285; Aug. 8.
Massage pad, Sanitary. C. Wolfsohn. No. 1,425,158; Aug. 8.
Match scratcher. J. N. Dell. No. 1,425,453; Aug. 8.
Matrix cleaner. R. F. Reed. No. 1,425,132; Aug. 8.
Measure, Inseam. A. R. Childs. No. 1,425,175; Aug. 8.
Measuring instrument. M. Bartholdy. No. 1,425,438; Aug. 8.
Meat or the like, Means for injecting liquid or gaseous matter under pressure into. G. Scheib. No. 1,425,143; Aug. 8.
Meat-slicing machines, Sharpener for. W. F. H. Braun. No. 1,424,875; Aug. 8.
Mechanical movement. V. R. Despard. No. 1,425,180; Aug. 8.
Metal plate, Corrugated. B. B. Milner. No. 1,425,207; Aug. 8.
Metal plates, Manufacturing corrugated. B. B. Milner. No. 1,425,208; Aug. 8.
Metal sheets or foils, Production of thin. T. A. Edison. No. 1,425,184; Aug. 8.
Meters, Movable element for. D. J. Angus. No. 1,425,229; Aug. 8.
Meter-testing device. J. L. Grayson. No. 1,424,809; Aug. 8.
Micrometer gauge or caliper. A. Hetherington. No. 1,425,201; Aug. 8.
Mill: *See*—
Grinding mill.
Milling machine, Axle-. J. K. Cullen and W. T. Sears No. 1,424,755; Aug. 8.
Mine cages, Safety device for. G. M. Johnson. No. 1,425,203; Aug. 8.
Mining machine. H. A. Kuhn. No. 1,425,103; Aug. 8.
Moisture-absorbing device. J. A. Hamlin. No. 1,425,197; Aug. 8.
Molding apparatus. T. P. Anthony. No. 1,425,230; Aug. 8.
Mold-handling apparatus. E. D. Cary. No. 1,425,449; Aug. 8.
Molding apparatus, Holding or tying means for. S. S. Colt. No. 1,424,880; Aug. 8.
Mold-opening device. A. O. Abbott, jr. No. 1,424,791; Aug. 8.
Mortise lock. S. Segal. No. 1,425,060; Aug. 8.
Motor: *See*—
Tractor motor. Water motor.
Motor-cycle side cars, Chassis for. T. Gordon. No. 1,425,380; Aug. 8.
Motor switch. D. R. Harper. No. 1,424,901; Aug. 8.
Motors, Suspension device for electric traction. C. R. Demoie. No. 1,425,454; Aug. 8.
Mowing machine. C. R. Keagle. No. 1,425,489; Aug. 8.
Muffler cut-out. R. Scheid. No. 1,424,776; Aug. 8.
Musical instrument. P. Milito. No. 1,425,032; Aug. 8.
Musical instrument, Automatic. R. Head. No. 1,424,903; Aug. 8.
Musical instruments, Mute for. E. A. Couturier. No. 1,425,318; Aug. 8.
Necking machine. J. A. Stock. No. 1,425,294; Aug. 8.
Nonskid appliance. G. S. Cucchiara. No. 1,424,882; Aug. 8.
Nozzle, Suction. W. H. K. Bennett. No. 1,425,165; Aug. 8.
Nut lock. A. Birchman, G. O. Matter, and J. H. McCoy. No. 1,424,978; Aug. 8.
Obstetrical instrument. A. Byrd. No. 1,424,984; Aug. 8.
Oil and fuel gas from oil shales and oil sands, Retort furnace and condensing apparatus for the eduction of. C. L. Buckingham. No. 1,425,074; Aug. 8.
Oil burner. J. F. Bannon. No. 1,424,795; Aug. 8.
Oil burner. E. Grossenbacher. No. 1,425,196; Aug. 8.
Oil or gas burner. A. G. Schumann. No. 1,425,343; Aug. 8.
Oil-well tool. G. F. Heap. No. 1,424,820; Aug. 8.
Okra machine. J. N. Economos. No. 1,425,373; Aug. 8.
Ophthalmic mounting. H. E. Kirstein and T. Leytham. No. 1,424,828; Aug. 8.
Ores, Reducing. E. C. King. No. 1,425,386; Aug. 8.
Oven, Baker's. W. F. Schaller. No. 1,425,342; Aug. 8.
Pad: *See*—
Massage pad.
Pails, Cover fastener for shipping. J. C. Andresen. No. 1,425,311; Aug. 8.
Pan: *See*—
Dustpan.
Panel rod. H. Junkers. No. 1,424,912; Aug. 8.
Paper boxes, Lock for. E. Kotterman. No. 1,424,830; Aug. 8.
Paper container. H. S. Brewington. Nos. 1,425,168–9; Aug. 8.
Paper-feeding mechanism. W. M. Kelly. No. 1,424,916; Aug. 8.
Paper napkins, Making. C. P. Winter. No. 1,425,071; Aug. 8.
Patch, Blow-out. J. Bordas. No. 1,425,234; Aug. 8.
Pedal, Adjustable foot. V. W. Paré. No. 1,425,413; Aug. 8.
Pencil. F. H. Kay. No. 1,425,323; Aug. 8.
Pencil. C. A. Stickney. No. 1,425,066; Aug. 8.
Pen, Stylographic fountain. R. Ullrich. No. 1,425,150; Aug. 8.
Perforating appliance, Electric. R. R. Cone. No. 1,425,079; Aug. 8.
Perforating machine. D. Noble. No. 1,425,041; Aug. 8.
Phonograph construction and housing. F. H. Livingston. No. 1,424,835; Aug. 8.
Phonograph envelope and making the same. M. G. Markgraf. No. 1,424,840; Aug. 8.
Phonograph mechanism, Motor friction. E. W. Winslow. No. 1,425,353; Aug. 8.

Phonograph motor mechanism, Hysteresis power transmitter and brake for. M. Morrison. No. 1,424,769; Aug. 8.
Phonograph record. T. D. Jones and J. H. Barr. No. 1,425,486; Aug. 8.
Phonograph record. D. B. Porter. No. 1,425,281; Aug. 8.
Phonograph-record album. F. W. Sea. Nos. 1,424,780–1; Aug. 8.
Phonograph-record album. P. N. Sea. Nos. 1,424,778–9; Aug. 8.
Phonograph record. E. W. Jones and E. R. Harris. No. 1,425,018; Aug. 8.
Photography, Method and apparatus for producing multiple-image effects in. L. F. Douglass. No. 1,424,886; Aug. 8.
Picker: *See*—
Potato picker. Stone picker.
Picking table. R. M. Bickley. No. 1,425,441; Aug. 8.
Picture films, Apparatus for printing motion-. H. R. Evans. No. 1,425,461; Aug. 8.
Picture machines, Film sprocket wheel for moving-. H. B. Byron. No. 1,424,877; Aug. 8.
Pigments, Making. L. Baker. Nos. 1,425,436–7; Aug. 8.
Pin inserter and remover. L. M. Brundage. No. 1,425,447; Aug. 8.
Piston ring, Duplex. S. Johnsen. No. 1,425,017; Aug. 8.
Pistons having rings in cylinders, Device for placing. G. B. Cady. No. 1,425,075; Aug. 8.
Pitman connection. C. Pearson. No. 1,424,935; Aug. 8.
Pliers. E. A. Kauffman. No. 1,424,915; Aug. 8.
Plow, M. Conti. No. 1,425,451; Aug. 8.
Plow attachment. W. Nehls and A. Lemke. No. 1,425,409; Aug. 8.
Plow, Hand garden. J. E. Dittemore. No. 1,425,372; Aug. 8.
Plowpoint, Excavator. C. O. Anglemeyer and F. E. Perlberg. No. 1,424,750; Aug. 8.
Plowshare. J. and M. Hetland. No. 1,425,012; Aug. 8.
Plywood or fibrous compositions, Manufacturing curved forms of. M. Loughead. No. 1,425,113; Aug. 8.
Pockets, Article holder for. P. S. Zontos. No. 1,424,970; Polish for metallic and other surfaces, Liquid. J. A. Palmer. No. 1,425,046; Aug. 8.
Portable closet. H. W. La Munyon. No. 1,425,391; Aug. 8.
Portière rod. C. E. Galbreath. No. 1,425,247; Aug. 8.
Pot: *See*—
Fertilizer pot.
Potato picker. A. F. Zabel and R. V. Townsend. No. 1,424,868; Aug. 8.
Pressing device. H. A. Elliott. No. 1,425,460; Aug. 8.
Press: *See*—
Printing press.
Printing press. E. F. Dudley. No. 1,424,757; Aug. 8.
Proctotherapy, Medical apparatus for use in. O. B. Schellberg. No. 1,425,420; Aug. 8.
Projection apparatus. H. N. Ott and F. H. Bufton. No. 1,424,847; Aug. 8.
Propeller. A. Danielson. No. 1,425,179; Aug. 8.
Pulverizer. P. S. Knittel. No. 1,424,923; Aug. 8.
Pulverizing machine. P. S. Knittel. No. 1,424,922; Aug. 8.
Pump. C. S. McClelland. No. 1,424,928; Aug. 8.
Pump. A. W. Wellington and A. F. Ryan. No. 1,424,964; Aug. 8.
Pump and motor for submerged service, Unit. W. R., H. J., and E. M. Woock. No. 1,425,308; Aug. 8.
Pump and motor, Hydraulic. M. K. Ingoldby. No. 1,424,823; Aug. 8.
Pump, Chain. R. Long. No. 1,425,112; Aug. 8.
Pump plunger. G. R. Livergood. No. 1,425,398; Aug. 8.
Pump, Pneumatic. A. Kuether. No. 1,425,494; Aug. 8.
Pump, Well. J. Penrod and R. D. Thompson. No. 1,425,276; Aug. 8.
Pumping apparatus. A. Garbarini. No. 1,425,191; Aug. 8.
Punching machine. C. W. Spicer. No. 1,424,856; Aug. 8.
Race, Rowing. R. Sato and C. Matsui. No. 1,425,058; Aug. 8.
Rack: *See*—
Clothes-drying rack. Towel rack.
Radiator core. C. F. and J. H. Spery. No. 1,425,146; Aug. 8.
Radiosignals, Apparatus for receiving. R. A. Weagant. No. 1,425,154; Aug. 8.
Rail anchor. H. G. Warr. Nos. 1,425,223–4; Aug. 8.
Rail bender. H. Rodgers. No. 1,425,135; Aug. 8.
Rail joint. C. W. Gaskey. No. 1,425,408; Aug. 8.
Rail joint. J. B. Murray. No. 1,425,036; Aug. 8.
Railway spike. J. Hartley. No. 1,425,199; Aug. 8.
Rail, Spring frog. J. H. Hardy. No. 1,425,253; Aug. 8.
Rail spotter, Adjustable standard-length-. H. A. Jones and E. W. Struve. No. 1,424,911; Aug. 8.
Rail tie and fastener. P. G. Mood. No. 1,425,125; Aug. 8.
Railway crossing. J. H. Hardy. No. 1,425,472; Aug. 8.
Railway crossing. E. Landis. No. 1,425,104; Aug. 8.
Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,425,397; Aug. 8.
Rake: *See*—
Buck rake. Self-cleaning rake.
Ratchet feed mechanism. G. A. Granlund. No. 1,425,007; Aug. 8.
Razor, case, hone, and strop, Combination. R. E. Brown. No. 1,425,446; Aug. 8.
Razor, Safety. J. W. Fischer. No. 1,425,463; Aug. 8.
Razor-stropping device, Safety-. P. J. Dwyer. No. 1,425,081; Aug. 8.
Receiver earpiece. H. G. Pape. No. 1,425,047; Aug. 8.
Reel: *See*—
Fishing reel.
Reel. C. D. Cate. No. 1,425,076; Aug. 8.
Refrigerating apparatus. A. T. Marshall. No. 1,425,265; Aug. 8.
Refrigerating machine. A. T. Marshall. No. 1,425,267; Aug. 8.
Refrigerating machines, Control for. A. D. Karr and K. D. Perkins. No. 1,424,826; Aug. 8.
Refrigerating system. A. T. Marshall. No. 1,425,266; Aug. 8.
Refrigeration. J. Rebsamen. No. 1,425,216; Aug. 8.
Register: *See*—
Autographic register.
Return end and making same. R. A. Thom. No. 1,425,222; Aug. 8.
Return end and making same. R. A. Thom. No. 1,425,495; Aug. 8.
Reversing mechanism, Automatic. G. W. Berthold. No. 1,424,797; Aug. 8.
Rifles and like small arms, Rear sight for. H. R. L. Etherington. No. 1,425,321; Aug. 8.
Rims, Clamping device for demountable. C. A. La Cour. No. 1,425,025; Aug. 8.
Ring: *See*—
Piston ring.
Riveting set, Retaining device for a. T. J. James. No. 1,425,482; Aug. 8.
Road grader. C. H. Welsh. No. 1,425,303; Aug. 8.
Rock crusher. C. W. Ackermann. No. 1,424,792; Aug. 8.
Rod: *See*—
Panel rod. Portière rod.
Rolling Mills, Automatic lubricating device for. H. N. Little and W. B. Gormely. No. 1,425,110; Aug. 8.
Roof collar, Adjustable. O. M. Redlon. No. 1,425,418; Aug. 8.
Rubber-heel molds, Washer-placing machine for. J. H. Kintzele, A. Manheimer, and F. M. Etter. No. 1,424,920; Aug. 8.
Rubber-heel molds, Washer-placing machine for. A. Manheimer, F. M. Etter, and J. H. Kintzele. No. 1,424,931; Aug. 8.
Rules, Magnifying runner for slide. C. F. Dieckmann. No. 1,424,807; Aug. 8.
Sadiron holder. S. H. Gibson. No. 1,424,750; Aug. 8.
Safety light. W. W. Rumsey. No. 1,425,139; Aug. 8.
Sand-drying device. F. X. Heindl. No. 1,424,904; Aug. 8.
Sash lock. E. Gusy. No. 1,424,900; Aug. 8.
Sash lock. A. J. Hanke. No. 1,424,702; Aug. 8.
Saucepan. H. G. G. Desmarest. No. 1,425,371; Aug. 8.
Saw, Electrically-operated. B. D. Viers. No. 1,425,152; Aug. 8.
Saw set. H. Kuehn. No. 1,425,389; Aug. 8.
Scale. J. Frame. No. 1,425,466; Aug. 8.
Scale attachment, Weighing-. K. G. Fisher. No. 1,425,465; Aug. 8.
Screen: *See*—
Fire screen. Window screen.
Screening machine and vibrating hammer therefor. H. K. Najarian. No. 1,425,039; Aug. 8.
Screw jacks, Housing for vertical. J. S. Townsend. No. 1,424,952; Aug. 8.
Seal, Box-strap. S. Baruch. No. 1,424,976; Aug. 8.
Sectional table. W. A. Adams. No. 1,425,072; Aug. 8.
Self-cleaning rake. S. M. Scarvie. No. 1,425,219; Aug. 8.
Separator: *See*—
Conveyer and mold separator. Magnetic separator.
Separator. P. Fischbacher. No. 1,425,246; Aug. 8.
Separating process. R. Ellis. Nos. 1,425,185–7; Aug. 8.
Service device. H. Zola. No. 1,425,432; Aug. 8.
Setting-up means, Article-. F. W. Danberg. No. 1,425,319; Aug. 8.
Sewing machine. F. A. Reece. No. 1,424,851; Aug. 8.
Sewing-machine needle plate. E. J. Rogers. No. 1,424,854; Aug. 8.
Shade bracket, Window-. E. A. Rejsa. No. 1,425,052; Aug. 8.
Sharpener, Razor-blade. A. R. Sulstrom. No. 1,425,290; Aug. 8.
Shave, Universal concave. G. Ingelson. No. 1,425,260; Aug. 8.
Shears. W. F. Sherman. No. 1,425,061; Aug. 8.
Sheet or card, Record. J. A. Wherry. No. 1,424,968; Aug. 8.
Sheet-feeding method and means. J. C. Thom. No. 1,425,350; Aug. 8.
Sheet-metal article. F. E. Bayer. No. 1,425,232; Aug. 8.
Sheets, Collated work. J. A. Wherry. No. 1,424,967; Aug. 8.
Ship-hull construction. J. Duthie, sr. No. 1,425,243; Aug. 8.
Shock absorber. O. E. Burgoon. No. 1,424,983; Aug. 8.
Shock absorber. W. E. Snaman. No. 1,424,783; Aug. 8.
Shock absorber for vehicles. W. R. Cochran. No. 1,425,176; Aug. 8.
Shoe fastener. J. Eldridge. No. 1,425,245; Aug. 8.
Shoemaking, Pattern for. J. P. Petrarca. No. 1,425,278; Aug. 8.

Shoes, Inner sole for arch-supporting. W. A. Knipe. No. 1,425,263; Aug. 8.
Shoes, Wetting and wringing machine for box-toe doublers in. E. C. Kane. No. 1,424,914; Aug. 8.
Showcase. G. Strong. No. 1,425,347; Aug. 8.
Sign and advertising device. T. Sapp. No. 1,425,142; Aug. 8.
Sifter, Ash. G. Kabureck. No. 1,425,488; Aug. 8.
Signal: *See*—
Direction-indicating signal.
Signal apparatus. W. T. Tabb. No. 1,424,859; Aug. 8.
Signaling system, Subterranean. L. de Forest. No. 1,424,806; Aug. 8.
Silk, Apparatus for spinning artificial. J. Clayton. No. 1,425,368; Aug. 8.
Silo. O. A. Stoen. No. 1,425,346; Aug. 8.
Sleeve holder. S. Abe. No. 1,425,434; Aug. 8.
Smelting furnace, Vertical retort zinc-. A. Jones. No. 1,424,825; Aug. 8.
Snowplow. H. R. Canfield. No. 1,424,878; Aug. 8.
Solar heating device. M. E. Moreau. No. 1,424,932; Aug. 8.
Solids from liquids, Magnetic strainer apparatus for separating. E. B. Chapman. No. 1,425,366; Aug. 8.
Spacer or space band, Justifying. J. H. Beck. No. 1,424,870; Aug. 8.
Spark conductor. W. H. Hatcher. No. 1,425,473; Aug. 8.
Spark plug. F. A. Henkle. No. 1,425,476; Aug. 8.
Spark plug. A. A. Mellblom. No. 1,425,329; Aug. 8.
Spinal vibrating apparatus. T. L. Zook. No. 1,425,433; Aug. 8.
Spinning machine. E. E. Bradley. No. 1,425,363; Aug. 8.
Spoolers, Doffing device for. A. E. Rhoades. No. 1,425,053; Aug. 8.
Spring fitting and quenching machine. A. G. Cole, W. H. Foster, and L. H. Fry. No. 1,425,238; Aug. 8.
Spring structure. W. R. Smith. No. 1,425,345; Aug. 8.
Squeeze connector. G. L. Hathewny. No. 1,425,382; Aug. 8.
Stamps and the like to packages or containers, Machine for applying. G. W. Gwinn and J. W. Leary. No. 1,425,250; Aug. 8.
Stand: *See*
Hose stand.
Stands, Adjustable foot rest for shoe-shining. J. E. Walker. No. 1,424,959; Aug. 8.
Steam trap. J. Sabin. No. 1,425,340; Aug. 8.
Steering-column control unit. S. F. Briggs and E. N Jacobi. No. 1,425,170; Aug. 8.
Steering-wheel posts, Counterbalancing device for. P. Link. No. 1,425,109; Aug. 8.
Stencil-making machine. E. E. Gompers, L. Weyl, and P. Hein. No. 1,425,248; Aug. 8.
Stepladder, Extension-top. J. F. Parkinson. No. 1,425,274; Aug. 8.
Stereotyping flong. A. G. Hawkins. No. 1,425,474; Aug. 8.
Stone picker. E. C. Clark. No. 1,425,078; Aug. 8.
Stop-motion device. W. G. Mills and H. E. Bisaillon. No. 1,424,844; Aug. 8.
Stopper: *See*—
Bottle stopper.
Storage heater. R. J. Pabodie. No. 1,425,273; Aug. 8.
Stove, Gas. H. R. Humphrey. No. 1,425,096; Aug. 8.
Stove, Gas. H. W. O'Dowd. No. 1,425,043; Aug. 8.
Stripping machine. H. G. Antaramian. No. 1,425,312; Aug. 8.
Stud driver. C. A. Barry. No. 1,425,359; Aug. 8.
Stuffing box. R. F. Massa. No. 1,425,268; Aug. 8.
Stylus mounting. T. A. Edison. No. 1,425,458; Aug. 8.
Submarine work, Apparatus for. A. B. Hansen. No. 1,425,471; Aug. 8.
Sulphite digestion liquor, Process and apparatus for preparing. D. B. Davies and E. P. Strong. No. 1,424,883; Aug. 8.
Switch: *See*—
Electric switch.
Motor switch.
Telephone switch.
Switch. A. A. Gazda. No. 1,425,003; Aug. 8.
Table: *See*—
Picking table.
Sectional table.
Talking machines, Reproducer for. E. M. Low. No. 1,424,838; Aug. 8.
Tassel. F. P. Prevot. No. 1,425,336; Aug. 8.
Teapots, Adjustable container for. H. Pearl. No. 1,424,774; Aug. 8.
Telegram holder. J. A. Hulit. No. 1,424,907; Aug. 8.
Telephone switch, key-controlled. D. C. Walker and B. Weeks. No. 1,424,863; Aug. 8.
Theaters, Seat indicator for. E. A. Henricson. No. 1,425,255; Aug. 8.
Thrashing machines, Cylinder for. R. H. Owen. No. 1,424,933; Aug. 8.
Tickets and the like, Machine for printing and issuing. F. Phillips. No. 1,425,050; Aug. 8.
Tie plate. F. E. Abbott. Nos. 1,425,309–10; Aug. 8.
Tile, Interlocking. F. Dochnal. No. 1,425,181; Aug. 8.
Timer cover. J. Majempsey. No. 1,425,403; Aug. 8.
Timers, Contact brush for. H. T. Haskins. No. 1,425,200; Aug. 8.
Tins or the like, Apparatus for sorting out and delivering bodies or lids of. V. C. H. Elgy. No. 1,425,374; Aug. 8.
Tire. O. Johnson and C. Neuman. No. 1,424,824; Aug. 8.
Tire. J. H. Ryder. No. 1,424,855; Aug. 8.
Tire protector. G. Valiquette. No. 1,425,299; Aug. 8.
Tire pump. M. H. Moses. No. 1,425,126; Aug. 8.
Tire, Rubber. J. Todd. No. 1,424,787; Aug. 8.
Tires and apparatus therefor, Manufacture of resilient. T. H. Channon. No. 1,424,802; Aug. 8.
Tires, Method and apparatus for making cushion. J. R. Gammeter. No. 1,425,085; Aug. 8.
Tires, Tread band for pneumatic. G. H. Allden. No. 1,425,356; Aug. 8.
Toaster, Electric. E. Schwartz. No. 1,425,344; Aug. 8.
Toilet article. W. H. Roystone. No. 1,425,138; Aug. 8.
Toilet, Ventilating. G. H. Van Eck. No. 1,424,955; Aug. 8.
Tool. P. Taylor. No. 1,424,861; Aug. 8.
Towel rack. O. H. Eggert. No. 1,425,459; Aug. 8.
Toy. R. B. Budin. No. 1,424,982; Aug. 8.
Toy. D. Levinson. No. 1,425,107; Aug. 8.
Toy house. F. J. Varnuska. No. 1,425,425; Aug. 8.
Toy-house construction. A. H. Bergmann. No. 1,425,166; Aug. 8.
Toy insect gun, Mechanical. C. E. Goodwin. No. 1,425,249; Aug. 8.
Traction wheel. J. I. Hoke. No. 1,425,258; Aug. 8.
Traction wheel. U. Pedroarena and G. Hoffman. No. 1,425,334; Aug. 8.
Tractor motor, Fluid. S. C. Sladden. No. 1,425,292; Aug. 8.
Tractor wheel. M. V. Jarecki. No. 1,424,909; Aug. 8.
Train-control systems, Track circuit for. C. W. Brewster. No. 1,425,315; Aug. 8.
Train-stopping device, Automatic. R. B. Boyle. No. 1,424,980; Aug. 8.
Transformation. W. E. Nolan. No. 1,424,845; Aug. 8.
Transformer, Polyphase. S. Horelick. No. 1,425,091; Aug. 8.
Transmission. J. Parco. No. 1,425,214; Aug. 8.
Transmission and lining for the bands thereof. J. Galamb. No. 1,424,893; Aug. 8.
Transmission casing. W. F. Hudson. No. 1,425,094; Aug. 8.
Transmitter. T. A. Edison. No. 1,425,183; Aug. 8.
Transmitter, Impulse. R. H. Manson. No. 1,425,123; Aug. 8.
Trap: *See*—
Animal trap.
Steam trap.
Trap. A. Kubicki. No. 1,425,023; Aug. 8.
Trap. M. J. Newman. No. 1,425,410; Aug. 8.
Trees, Method and means for protecting. S. Hockridge. No. 1,425,257; Aug. 8.
Tricycle or three-wheel motor vehicle. E. Herds. No. 1,424,822; Aug. 8.
Trolley harp. F. Thornton. No. 1,424,950; Aug. 8.
Trough, Feed. P. Kortenhoeven. No. 1,425,205; Aug. 8.
Truck, Basket. L. B. Hayes and V. W. Kemp. No. 1,424,819; Aug. 8.
Truck, Electric. G. T. Westlake and K. S. Howard. No. 1,424,788; Aug. 8.
Truck, Hand. E. L. Peterson. No. 1,424,938; Aug. 8.
Truck jack. I. A. Weaver and R. G. Stoehr. No. 1,424,962; Aug. 8.
Truck wheels, Tongue operated lock for. L. R. McKinney. No. 1,424,929; Aug. 8.
Tube setting and spreading tool. J. H. Vogt, jr. No. 1,425,426; Aug. 8.
Tubs, Controller for oscillating washing-machine. W. S. Ireland and W. H. Meyer. No. 1,425,098; Aug. 8.
Tumbler, Drying. E. I. Cutter. No. 1,424,994; Aug. 8.
Twisting and winding machine. A. Friedlander. No. 1,425,084; Aug. 8.
Typewriter. F. J. McLoughlin. No. 1,425,029; Aug. 8.
Typewriter attachment. C. H. Caldwell. No. 1,424,985; Aug. 8.
Typewriting machine. E. B. Hess. No. 1,424,905; Aug. 8.
Typewriting machine. A. G. F. Kurowski. No. 1,425,024; Aug. 8.
Typewriting machine. A. G. F. Kurowski. No. 1,425,326; Aug. 8.
Typewriting machine. A. G. F. Kurowski. No. 1,425,390; Aug. 8.
Typewriting machine. K. E. Marsh. No. 1,424,841; Aug. 8.
Typewriting machine. G. A. Seib. No. 1,425,291; Aug. 8.
Typewriting machine. J. A. B. Smith. No. 1,425,293; Aug. 8.
Typographical composing machines, Distributing mechanism of. T. Drake and R. D. Carter. No. 1,424,887; Aug. 8.
Typographical machine. D. S. Kennedy. No. 1,424,917; Aug. 8.
Valve apparatus, Reducing. W. S. Noyes. No. 1,424,846; Aug. 8.
Valve, Automatic steam stop. W. B. Stork. No. 1,424,949; Aug. 8.
Valve-control device. O. Hayes. No. 1,425,088; Aug. 8.
Valve, Fluid-pressure-controlling. H. R. Geer. No. 1,425,086; Aug. 8.
Valve for fuel tanks, Air. J. A. Baer. No. 1,425,358; Aug. 8.
Valve for oil systems. N. D. Whitney. No. 1,425,429; Aug. 8.

Valve for pressure-gas containers, Stop. A. B. Dräger. No. 1,424,810; Aug. 8.
Valve for single-chamber compressed-air brakes, Triple. W. Hildebrand. No. 1,425,477; Aug. 8.
Valve, Gas-reversing. W. H. Lake. No. 1,424,832; Aug. 8.
Valve mechanism. H. Y. Norwood. No. 1,425,412; Aug. 8.
Valve, Rotary. J. Good. (Reissue.) No. 15,430; Aug. 8.
Valve, Sprinkler-system alarm. E. G. Harris. No. 1,425,254; Aug. 8.
Valve, Thermostatic-controlled. J. L. Fitts. No. 1,425,180; Aug. 8.
Vanity-case partition. W. G. Kendall. No. 1,425,490; Aug. 8.
Vapor bath. J. Thomas. No. 1,425,423; Aug. 8.
Vegetable albuminoid and producing it. A. Moffatt. No. 1,425,033; Aug. 8.
Vehicle, Automotive. A. M. Wolf. No. 1,424,867; Aug. 8.
Vehicle bumper and fender, Motor-. M. H. Moses. No. 1,425,127; Aug. 8.
Vehicle drive transmission system. D. G. Tiffany. No. 1,424,951; Aug. 8.
Vehicle-handling apparatus. J. D. Owen. No. 1,425,045; Aug. 8.
Vehicle wheel, Resilient. A. Wiswall. No. 1,424,865; Aug. 8.
Vehicle wheels, Means for securing antiskid chains to. C. Ackerberg. No. 1,424,971; Aug. 8.
Vehicles, Controller for electrical. C. A. Ward. No. 1,425,070; Aug. 8.
Vehicles, Propelling attachment for children's. F. S. Seagrave. No. 1,425,220; Aug. 8.
Vehicles, Sanding device for. W. L. Fournier. No. 1,424,758; Aug. 8.
Vehicles, Shock-absorbing device for. R. H. Hassler. No. 1,424,902; Aug. 8.
Vehicles, Theft signal for motor. L. R. Zepka. No. 1,425,159; Aug. 8.
Velocipedes, Driving mechanism for. G. Eklund. No. 1,425,082; Aug. 8.
Ventilating device. D. T. Lyon. No. 1,425,028; Aug. 8.
Ventilator. W. Reenstrom. No. 1,424,944; Aug. 8.
Ventilators, Forming hoods and aprons for. W. Reenstrom. No. 1,424,945; Aug. 8.
Vinyl halides, Manufacture of. H. Plauson. No. 1,425,130; Aug. 8.
Voting machine. E. B. Willix. No. 1,425,352; Aug. 8.
Wall, Safe or vault. A. Kennedy. No. 1,425,324; Aug. 8.
Wall structure. F. L. Keppler. No. 1,425,102; Aug. 8.
Wardrobe, Portable. H. S. Altman. No. 1,425,228; Aug. 8.
Washer: *See*—
Detachable washer.
Washing machine. J. Johnson. No. 1,425,204; Aug. 8.
Washing-machine-driving mechanism. W. F. Moran. No. 1,425,209; Aug. 8.
Watch-chain swivels, Making. F. W. Nittel. No. 1,425,128; Aug. 8.
Water and recovery of sludge, System for disposal of bilge. W. C. Robinson. No. 1,425,289; Aug. 8.
Water motor. G. Jorgenson. No. 1,425,487; Aug. 8.
Water-tube boiler. H. O. Baker. No. 1,425,162; Aug. 8.
Waves, Method and means for relaying modulated carrier. P. I. Wold. No. 1,424,866; Aug. 8.
Wearing apparel. L. N. Gross. No. 1,425,008; Aug. 8.
Wearing apparel and the like, Fastening device for. S. E. Johnston. No. 1,425,485; Aug. 8.
Weighing machine provided with a printing apparatus. H. Schröder. No. 1,425,421; Aug. 8.
Weighting mechanism. G. W. Gwinn. No. 1,425,251; Aug. 8.
Wheel: *See*—
Gear wheel.
Traction wheel.
Tractor wheel.
Vehicle wheel.
Wheel. E. R. Beeman. No. 1,425,073; Aug. 8.
Wheel. C. Guernsey. No. 1,424,818; Aug. 8.
Wheel. S. H. Phelps. No. 1,425,129; Aug. 8.
Wheel-dressing mechanism. A. E. Larsson. No. 1,424,765; Aug. 8.
Winch. R. S. Bolger. No. 1,425,233; Aug. 8.
Windshield cleaner. W. H. Folberth. No. 1,424,890; Aug. 8.
Window screen. A. Jenkins. No. 1,425,484; Aug. 8.
Wood-splitting machine. A. R. Treat. No. 1,425,298; Aug. 8.
Work pieces, Feeding mechanism for. W. N. Stevenson. No. 1,424,785; Aug. 8.
Wrench. A. Partin. No. 1,425,415; Aug. 8.
Wrench or other tool. J. R. Ayotte. No. 1,424,794; Aug. 8.
Yeast, Growing of. B. A. Stagner. No. 1,425,065; Aug. 8.

ALPHABETICAL LIST OF DESIGNS.

Advertising board. C. L. Herbert. No. 61,341; Aug. 8.
Ash tray and match-box holder, Combination. S. Kronburger. No. 61,343; Aug. 8.
Cards, Back of playing. I. T. Smith. No. 61,352; Aug. 8.
Knife-sharpening device. M. G. Goff. No. 61,338; Aug. 8.
Lamp lens, Signal-. E. S. Preston. No. 61,347; Aug. 8.
Lighting fixtures, Arm for. W. B. Goddard. No. 61,337; Aug. 8.
Lighting fixtures, Shade for. H. A. Ross and O. Koehler. No. 61,349; Aug. 8.
Lighting fixtures, Bowl for. H. A. Ross and O. Koehler. No. 61,350; Aug. 8.
Paper weight, cigar cutter, and flag stand, Combined. J. Gossner. No. 61,339; Aug. 8.
Phonograph cabinet. W. H. Miller. No. 61,345; Aug. 8.
Phonograph table. F. G. Mayer. No. 61,344; Aug. 8.
Plate or similar article. T. Kotato. No. 61,342; Aug. 8.
Poker chip. G. H. Harris. No. 61,340; Aug. 8.
Radiator-cap ornament. W. M. Rolph. No. 61,348; Aug. 8.
Receptacle. P. Mohrmann. No. 61,346; Aug. 8.
Ring. J. B. Ullman. No. 61,354; Aug. 8.
Tire tread, Elastic. E. O. Bickre. No. 61,335; Aug. 8.
Tire tread, Vehicle. P. D. Saylor. No. 61,351; Aug. 8.
Tire, Vehicle. W. G. Current. No. 61,336; Aug. 8.
Tray. M. Stern. No. 61,353; Aug. 8.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Aprons. Gillette Rubber Co. No. 157,506; Aug. 8.
Ash trays. Griffin Choker Ash Tray, Inc. No. 157,512; Aug. 8.
Automobiles, Timing gears for. Perfection Timing Gear Company. No. 157,625; Aug. 8.
Baby pants. H. Stein & Company. No. 157,587; Aug. 8.
Bait, Artificial. O. C. Tuttle. No. 157,597; Aug. 8.
Baking powder. O. P. Crim. No. 157,484; Aug. 8.
Baseball game, Parlor. National Game Company, The. No. 157,548; Aug. 8.
Baseballs, baseball bats and gloves, and footballs. Buettell Brothers Company. No. 157,467; Aug. 8.
Bed springs. Mitchell and Mitchell Manufacturing Company. No. 157,544; Aug. 8.
Beverage, Concentrated material brewed from malt and hops suitable for making a malt. New England Brewing Company. No. 157,551; Aug. 8.
Beverage, Nonalcoholic, noncereal maltless. Thomas W. Larkin & Co. No. 157,532; Aug. 8.
Beverage, Nonintoxicating maltless. George Ringler & Co. No. 157,571; Aug. 8.
Beverage sold as a soft drink, Nonalcoholic, maltless. Parkway Bottling Co., Inc. No. 157,558; Aug. 8.
Beverages and sirups therefor. Jos. Middleby, jr., Inc. No. 157,543; Aug. 8.
Blood purifier and cleanser and system builder. Hart-Shaw-Miller Drug Company. No. 157,516; Aug. 8.
Bolts. Automatic Bearing Co. No. 157,454; Aug. 8.
Boots and shoes, Leather. Leonard & Barrows. No. 157,533; Aug. 8.
Brass rods. Bridgeport Brass Company. No. 157,465; Aug. 8.
Bread. W. B. Siegrist. No. 157,581; Aug. 8.
Brooms. Rich & France. No. 157,570; Aug. 8.
Brushes and brooms, powder puffs, and windshield cleaners, Certain. V. Vivaudou, Inc. No. 157,601; Aug. 8.
Callous remover. Cal-S-Foe. No. 157,470; Aug. 8.
Cambrics in the piece. Berkeley Company. No. 157,460; Aug. 8.
Chambray and cheviots in the piece. Riverside & Dan River Cotton Mills, Inc. No. 157,572; Aug. 8.
Chlorine-control apparatus. Wallace & Tiernan Co. No. 157,629; Aug. 8.
Cigarettes. J. Garbáty-Rosenthal, Zigarettenfabrik J. Garbáty, Berlin-Pankow. No. 157,501; Aug. 8.
Cigarettes. G. Pappanicolaou. No. 157,556; Aug. 8.
Cigars. T. G. Greunias. No. 157,511; Aug. 8.
Cigars. J. H. Masterman. No. 157,541; Aug. 8.
Cigars and chewing tobacco. D. C. Glasser Tobacco Company. No. 157,485; Aug. 8.
Cigars and cigarettes. L. Berberian. No. 157,459; Aug. 8.
Cigars, cigarettes, smoking, chewing, and snuff tobacco, cut tobacco. J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow. No. 157,499; Aug. 8.
Cigars, cigarettes, cigarillos, and tobacco. J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty. No. 157,500; Aug. 8.
Cigars, cigarettes, etc. J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow. Nos. 157,502–3; Aug. 8.
Cigars, cigarettes, snuff, etc. Wigwam Retail Stores Company. No. 157,609; Aug. 8.
Cigars, Little. I. Aaron. No. 157,444; Aug. 8.
Clothing, Certain articles of. Ambco, Inc. No. 157,445; Aug. 8.
Clothing, Certain articles of. Gordon & Ferguson. No. 157,509; Aug. 8.
Clothing, Certain articles of. Wentworth Clothing Company. No. 157,604; Aug. 8.
Clothing for outer wear, Men's. R. B. Clothing Company. No. 157,568; Aug. 8.
Clutches. Link-Belt Co. No. 157,623; Aug. 8.
Coats, vests, and pants, Men's. Rosenberg Bros. & Co. No. 157,575; Aug. 8.
Coffee mills. Arcade Manufacturing Company. No. 157,613; Aug. 8.
Cooking utensils, Kitchen. Metal and Alloy Specialties Company Inc. No. 157,542; Aug. 8.
Corset waists, brassières, bandeaux, etc. American Lady Corset Co. No. 157,448; Aug. 8.
Cotton fabrics in the piece. Stettauer, Harris & Raphael. No. 157,628; Aug. 8.
Cotton piece goods. Passaic Print Works. No. 157,559; Aug. 8.
Cotton, silk, and other piece goods. Mount Hope Finishing Company. No. 157,546; Aug. 8.
Curtain rods. Newell Mfg. Co. No. 157,550; Aug. 8.
Depilatories, shampoos, face creams, etc. Imperial Chemical Mfg. Co. No. 157,525; Aug. 8.
Drawings or pictures, Series or succession of. L. F. Van Zelm. No. 157,599; Aug. 8.
Dresses, Children's. Brohman Company. No. 157,466; Aug. 8.
Drilling machinery, Metal-. Cincinnati-Bickford Tool Company. No. 157,615; Aug. 8.
Faucets, cocks, and bibs. E. Stebbins Manufacturing Company. No. 157,586; Aug. 8.
Fire-extinguishing liquid and mounted on a bracket, Receptacles containing a. B. & K. Specialty Company. No. 157,614; Aug. 8.
Fur coats, wraps, capes, and neckpieces. Hudson Seal Co., No. 157,621; Aug. 8.
Game, Arithmetical card. Teddy Multiplication Game Company. No. 157,593; Aug. 8.
Games, Card. Parker Brothers. No. 157,557; Aug. 8.
Garters. Star Suspender Co. No. 157,585; Aug. 8.
Garters, Children's and misses'. American Wholesale Corporation (Baltimore Bargain House). Nos. 157,449–50; Aug. 8.
Ginger ale and ginger-ale extract. James Vernor Company. No. 157,600; Aug. 8.
Ginger ale and sirup for making the same. W. J. Gibson. No. 157,505; Aug. 8.
Grass cutters and scythes. North Wayne Tool Company. No. 157,552; Aug. 8.
Hair invigorator and tonic. A. E. Hyatt. No. 157,523; Aug. 8.
Hair nets. J. Fleischer. No. 157,618; Aug. 8.
Hair nets. G. Klemperer. No. 157,531; Aug. 8.
Hair nets. Sitroux Importing Company. Nos. 157,582–3; Aug. 8.
Hair nets, Human-. East and West Trading Corporation. No. 157,495; Aug. 8.
Hammers, Riveting. Cleveland Pneumatic Tool Company. No. 157,617; Aug. 8.
Hats and caps, Men's and boys'. Henry Sonneborn & Co. Inc. No. 157,584; Aug. 8.
Hats and hat frames, Ladies' trimmed and untrimmed. I. Tannenbaum. No. 157,592; Aug. 8.
Hats, Ladies'. M. Saltzman. No. 157,578; Aug. 8.
Heading and sealing machines, Can. Seattle-Astoria Iron Works. No. 157,627; Aug. 8.
Horseshoeing apparatus. A. Szabo. No. 157,591; Aug. 8.
Hose supporters and garters. Engle Suspender & Belt Co. Inc. No. 157,494; Aug. 8.
Hose supporters, arm bands, and garters. I. Goldberg. No. 157,508; Aug. 8.
Hosiery of silk or cotton or combinations of the same, Women's. Propper Silk Hosiery Mills, Inc. No. 157,562; Aug. 8.
Incense, Aromatic. Louis Lucas Company. No. 157,536; Aug. 8.
Journal, Monthly trade. Service Publishing Co. No. 157,580; Aug. 8.
Knit jackets. Century Knitting Mills. No. 157,478; Aug. 8.
Knitted caps. Reliable Knitting Works. No. 157,569; Aug. 8.
Knitted woolen and worsted cloths, eiderdowns, etc. Continental Mills, Inc. No. 157,483; Aug. 8.
Laces, Shoe. Diamond Braiding Mills. No. 157,491; Aug. 8.
Lime, Chlorinated. P. C. Tomson & Co. No. 157,595; Aug. 8.
Lingerie cloth, Mercerized and unmercerized. Garner Print Works and Bleachery. No. 157,504; Aug. 8.
Liniment, Solidified. American Chemical & Drug Company. No. 157,447; Aug. 8.
Lotion for dressing the hair. C. F. Root. No. 157,574; Aug. 8.
Lye. P. C. Tomson & Co. No. 157,594; Aug. 8.
Magazine, Monthly. Keystone Publishing Company. No. 157,530; Aug. 8.
Magazine, Monthly. Lincoln Fiscal Agency. Nos. 157,534–5; Aug. 8.
Magazines, Monthly. Practical Electrics Company. No. 157,566; Aug. 8.
Magazine, Trade. Rodger Publishing Company. No. 157,573; Aug. 8.
Medicinal preparation, Certain. Blanding and Blanding, Inc. No. 157,461; Aug. 8.
Medicinal preparation, Certain. Hydrarginol Company. No. 157,524; Aug. 8.
Medicinal preparation, Certain. F. X. Mantsion. No. 157,538; Aug. 8.
Medicinal preparation for catarrh, etc. Dunlap Medicine Co. No. 157,492; Aug. 8.
Medicinal preparation for cows, Certain. Dairy Association Co. No. 157,486; Aug. 8.
Medicinal preparation for treatment of the gums and teeth. A. A. Rosenfield. No. 157,576; Aug. 8.
Medicinal preparation for the treatment of the nerves, stomach, liver, kidneys, etc. A. Arend Drug Co. No. 157,452; Aug. 8.
Medicinal preparations. Feng Laboratories, Inc. No. 157,497; Aug. 8.
Medicinal preparations, Certain. Purabrand Products Co. No. 157,567; Aug. 8.

Metals and alloys and products made from same, Non ferrous. American Brass Company. No. 157,446; Aug. 8.
Metals, Certain nonferrous. V. Henning & Sons. No. 157,518; Aug. 8.
Milling reamers and cutters. Detroit Twist Drill Company. No. 157,489; Aug. 8.
Muslin in the piece. Marshall Field & Company. No. 157,539; Aug. 8.
Nails and tacks. Auto-Vehicle Parts Company. No. 157,453; Aug. 8.
Nails, Horseshoe. Capewell Horse Nail Company. Nos. 157,472–3; Aug. 8.
Nippers. M. W. Robinson Co. No. 157,626; Aug. 8.
Ointment remedies for dandruff. G. J. Benavides. No. 157,458; Aug. 8.
Overalls. O'Bryan Brothers Inc. No. 157,553; Aug. 8.
Pamphlets, booklets, or leaflets, Series of. Philadelphia Quartz Company. No. 157,560; Aug. 8.
Paper and envelopes, Writing. Charles E. Weyand & Co.. No. 157,607; Aug. 8.
Paper, Bond. Hamilton Card & Paper House Inc. No. 157,515; Aug. 8.
Paper, cardboard, Bristol board, etc., Writing, typewriting, and other. Strathmore Paper Company. No. 157,589; Aug. 8.
Paper, papeteries, correspondence envelopes, etc., Writing, printing, and typewriter. Powers Paper Company. No. 157,563; Aug. 8.
Paper, Writing, printing, and book. C. P. Lesh Company. Nos. 157,620–2; Aug. 8.
Paper, writing tablets, papeteries, etc., Writing and printing. Powers Paper Company. No. 157,564; Aug. 8.
Paper, writing tablets, papeteries, etc., Writing, printing, and typewriter. Powers Paper Company. No. 157,565; Aug. 8.
Papers, Writing and printing. American Writing Paper Company. No. 157,451; Aug. 8.
Pencils, Lead. Eagle Pencil Company. No. 157,493; Aug. 8.
Penholders. B. W. Mach. No. 157,624; Aug. 8.
Perfumes and toilet water. J. Herman. No. 157,519; Aug. 8.
Periodicals. A. Bowyer. No. 157,464; Aug. 8.
Photographs. M. DeWitt. No. 157,490; Aug. 8.
Piece goods, Certain. Heberlein & Co., A. G. No. 157,517; Aug. 8.
Pile fabrics in the piece. Sidney Blumenthal & Co. No. 157,462; Aug. 8.
Powder, Talcum. Bauer & Black. No. 157,457; Aug. 8.
Powders and compacts, Toilet. A. Bourjois & Co. No. 157,463; Aug. 8.
Preparation for the throat and lungs. F. Carlson. No. 157,474; Aug. 8.
Preparation for treatment of bots, colic, distemper, etc. D. S. Wilson. No. 157,610; Aug. 8.
Preparation for use in making face powder adhere to the skin, Liquid. Complexion Products Co. No. 157,481; Aug. 8.
Publication and also yearly diary, Serial house-organ. Lucey Manufacturing Corporation. No. 157,537; Aug. 8.
Publication, Bimonthly. C. Nast. No. 157,547; Aug. 8.
Publication for dressmakers' use. Designer Publishing Company. No. 157,488; Aug. 8.
Publication, Weekly. Dearborn Publishing Company. No. 157,487; Aug. 8.
Pumps, engines, farm implements, wood and metal-working machinery, etc. Tranter Manufacturing Company. No. 157,596; Aug. 8.
Razors and blades, combination tools, Safety. Hamburger Factories Inc. No. 157,514; Aug. 8.
Remedy for fistula and poll-evil in horses and cattle. W. Ballhorn. No. 157,455; Aug. 8.
Salt. International Salt Co. of New York. No. 157,526; Aug. 8.
Salve for boils, cuts, wounds, etc. E. V. Vlach. No. 157,602; Aug. 8.
Salves and ointments. Combustinwerk Eulity & Co. No. 157,480; Aug. 8.
Scissors and shears. Clayton Mfg. Co. No. 157,616; Aug. 8.
Shampoo compound. Concentrated Products Corporation. No. 157,482; Aug. 8.
Shade rollers. Interstate Shade Cloth Co. No. 157,527; Aug. 8.
Sheetings, Cotton. Columbus Manufacturing Company. No. 157,479; Aug. 8.
Shirts and underwear, Men's dress. George E. Sweetser Company. No. 157,590; Aug. 8.
Shoe plates. F. Hachmann. No. 157,513; Aug. 8.
Shoe plates. Universal Shoe Plate Company. No. 157,598; Aug. 8.
Shoes and boots. Churchill & Alden Co. No. 157,477; Aug. 8.
Shoes, boots, slippers, pumps, oxfords. F. Werner. No. 157,605; Aug. 8.
Sirups for beverages, Flavoring. Hurty-Peck & Co. No. 157,522; Aug. 8.
Skiis. S. M. Chase. No. 157,476; Aug. 8.
Soaps, Toilet. F. G. Burke. No. 157,540; Aug. 8.
Stationery, Certain articles of. Buettell Brothers Company. No. 157,468; Aug. 8.
Suits, Ladies' three-piece. A. A. Frankel. No. 157,498; Aug. 8.
Suits, Men's. H. W. Rothstein. No. 157,577; Aug. 8.
Sweaters, bathing suits, shirts, etc. O'Shea Knitting Mills. No. 157,555; Aug. 8.
Table covers, handkerchiefs, doilies, etc., Cotton. United Turkey Red Company. No. 157,612; Aug. 8.
Tableware, Certain unplated flat. International Silver Company. No. 157,619; Aug. 8.
Tire chains, Automobile. Off'N'On Chain Corporation. No. 157,554; Aug. 8.
Toilet preparations. D. Jaquet. No. 157,528; Aug. 8.
Toilet preparations. S. F. Westheimer. No. 157,606; Aug. 8.
Tonic. H. Canter. No. 157,471; Aug. 8.
Tonic for medicinal purposes, General. E. Barnett. No. 157,456; Aug. 8.
Tops. Whip-O-Top Company. No. 157,608; Aug. 8.
Toy air guns, Gobiintoy Company. No. 157,507; Aug. 8.
Toy motor trucks, steam shovels, and derricks. Moline Pressed Steel Co. No. 157,545; Aug. 8.
Tracing cloth. Winterbottom Book Cloth Company Limited. No. 157,611; Aug. 8.
Transfer labels. Goshen Printery. No. 157,510; Aug. 8.
Trundle beds and infants' coops. H. E. Holbrook Company. No. 157,520; Aug. 8.
Underwear for men, women, and children and knit corset covers for women. Pittsburgh Dry Goods Company. No. 157,561; Aug. 8.
Valve handles or wheels. Jenkins Manufacturing Company. No. 157,529; Aug. 8.
Valves, Relief. Neptune Meter Company. No. 157,549; Aug. 8.
Velocipedes, Children's. Central Wheel Company. No. 157,475; Aug. 8.
Washers, Lock. Bull Dog Lock Washer Co. No. 157,469; Aug. 8.
Watches. Stein & Ellbogen Company. No. 157,588; Aug. 8.
Windshield cleaners. C. A. Edwardsen. No. 157,496; Aug. 8.
Wines, Champagne. Walbaum, Goulden & Co. No. 157,603; Aug. 8.

ALPHABETICAL LIST OF LABELS.

"Albers." (For Flapjack Flour.) Albers Bros. Milling Co. No. 24,822; Aug. 8.
"Albers Carnation." (For Wheat Flakes.) Albers Bros. Milling Co. No. 24,824; Aug. 8.
"Albers Peacock Brand." (For Buckwheat Flour.) Albers Bros. Milling Co. No. 24,821; Aug. 8.
"Aloha." (For Chocolates—Namely, Cherry Cocktail.) Connor & McCormick. No. 24,831; Aug. 8.
"Always Best." (For Oranges.) R. Krasnow & Sons, Inc. No. 24,846; Aug. 8.
"Aqua-ton." (For Containers for Mineral Water.) L. J. Bennett. No. 24,825; Aug. 8.
"Aunt Molly's Home Made Candies." (For Boxes Containing Candy.) Aunt Molly's Kitchen. No. 24,844; Aug. 8.
"Big Ben." (For Coffee.) Louisville Coffee Company, The. No. 24,852; Aug. 8.
"Big Six." (For Coffee.) Louisville Coffee Company, The. No. 24,851; Aug. 8.
"Bingo." (For Bug Killer.) Entomological Laboratories of North America. No. 24,836; Aug. 8.
"Bonnie Blue." (For Bias Seam Tape.) Economy Bias Binding Co. No. 24,834; Aug. 8.
"Brook-Knit." (For Pure-Wool Knit Cloth.) H. & H. W. Lewis, Inc. No. 24,850; Aug. 8.
"Classique." (For Hair Nets.) A. A. West. No. 24,863; Aug. 8.
"Crest High Grade Granulated Cut Plug Smoking." (For Smoking Tobacco.) Lovell-Buffington Tobacco Co. No. 24,854; Aug. 8.
"Del Monte." (For Flour.) Albers Bros. Milling Co. No. 24,820; Aug. 8.
"Dr. Huff's Combination Tooth Powder and Mouth Wash Will Neutralize the Acids and Prevent Fermentation." (For Metal or Other Containers for Tooth Powder.) O. W. Huff. No. 24,842; Aug. 8.
"Emerson's Ginger-Mint Julep." (For Nonalcoholic Beverages Sold at Fountains and in Bottles as a Soft Drink.) Emerson Drug Company. No. 24,835; Aug. 8.
"Famous — Sealines — Molines — Hudson — Seal." (For Furs and Skins.) A. Pierini. No. 24,855; Aug. 8.
"4 Most." (For Oranges.) R. Krasnow & Sons, Inc. No. 24,848; Aug. 8.
"Gastroids." (For a Remedy for the Liver and Stomach.) E. S. Price. No. 24,857; Aug. 8.

"Great Western." (For Malt Extract.) Lee M. Hirschler. No. 24,840; Aug. 8.
"Hires Household Extract For Making Ginger Ale At Home." (For Cartons Containing Ginger-Ale Extract.) Charles E. Hires Company, The. No. 24,838; Aug. 8.
"Iris." (For Cantaloupes.) R. Krasnow & Sons, Inc. 24,845; Aug. 8.
"Iris." (For Fresh Grapes.) R. Krasnow & Sons, Inc. No. 24,849; Aug. 8.
"I•S•I•S." (For a New Preparation for Washing and Healing Bleeding Gums and as a Mouth Wash.) C. F. Marsh. No. 24,827; Aug. 8.
"Jewel Freezer." (For Ice-Cream Freezers.) Steinfeld Bros. No. 24,862; Aug. 8.
"Kentucky Club Smoking Mixture." (For Smoking Tobacco.) Lovell-Buffington Tobacco Co. No. 24,853; Aug. 8.
"Kern's Sliced Bacon." (For Sliced Bacon.) George Kern, Inc. No. 24,843; Aug. 8.
"Lady Esther Whitener Cream." (For Face Cream.) S. Cohen. No. 24,829; Aug. 8.
"Listening In." (For Motion-Picture Films.) Radio-Films, Inc. No. 24,858; Aug. 8.
"Northern Seal." (For Furs and Skins.) A. Pierini. No. 24,856; Aug. 8.
"Ohio." (For Malt Extract.) Lee M. Hirschler. No. 24,839; Aug. 8.
"Old Holland." (For Malt Extract.) L. M. Hirschler. No. 24,841; Aug. 8.
"Orchid." (For Grapes.) R. Krasnow & Sons, Inc. No. 24,847; Aug. 8.
"Oregon Brand Milk." (For Evaporated Unsweetened Milk.) Henningen Produce Company. No. 24,837; Aug. 8.
"Peacock." (For Rolled Oats.) Albers Bros. Milling Co. No. 24,823; Aug. 8.
"Pork-Oreno." (For Containers for Fishing Bait.) J. R. Cunningham. No. 24,833; Aug. 8.
"Radiograms." (For Motion-Picture Films.) Radiograms, Inc. No. 24,859; Aug. 8.
"Recharge." (For Chemical Heaters.) Constant Heat Pack Corporation. No. 24,832; Aug. 8.
"S and L Superlative Automobile Polish." (For Bottles, Cans, Cartons, or Other Containers in Which the Automobile Polish is Marketed.) Silveira & Lorenz. No. 24,861; Aug. 8.
"Schneider's Simplex System of Instruction for Violin, Mandolin, and Mandolin-Banjo." (For Instruction Books and Phonograph Records for Use in Teaching Music.) F. M. Schneider. No. 24,860; Aug. 8.
"Simplicity." (For Hair Nets.) A. A. West. No. 24,866; Aug. 8.
"State Brand Butter." (For Cartons, Tubs, and Other Packages of Butter.) Calamia & O'Reardon Inc. No. 24,826; Aug. 8.
"The Every-Day Net." (For Hair Nets.) A. A. West. No. 24,864; Aug. 8.
"The Test That Proves Spearmint Tooth Paste Good for Children—and Grown Ups Too." (For Tooth Paste.) Wrigley Pharmaceutical Co. No. 24,867; Aug. 8.
"Town and Country Nets." (For Hair Nets.) A. A. West. No. 24,865; Aug. 8.
"Walnuttos." (For Complete Candy Parcels Made Up of a Box Filled with Wrapped Candy—Namely, Caramels.) J. N. Collins Company. No. 24,830; Aug. 8.
"White Swan." (For Mattresses.) Chattanooga Mattress Company. No. 24,828; Aug. 8.

ALPHABETICAL LIST OF PRINTS.

"Cattaraugus Scout." (For Advertising Purposes for Knives.) Cattaraugus Cutlery Co. No. 6,254; Aug. 8.
"Dependability Plus." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,257; Aug. 8.
"Perfected For You." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,256; Aug. 8.
"Steadfast Through the Years." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,258; Aug. 8.
"The World Knows—." (For Advertising Purposes for Candy.) Aromint Mfg. Company. No. 6,253; Aug. 8.
"This is Jell-Well." (For Advertising Purposes for a Compound of Sugar, Gelatin, and Fruit Acid.) Miles Manufacturing Company, Incorporated. No. 6,255; Aug. 8.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abrasives. Manning Abrasive Company, Incorporated. No. 161,930; Aug. 8.
Alimentary paste. A. F. Ghiglione & Sons, Inc. Nos. 159,865–6; Aug. 8.
Automobile axles and transmissions, Gears and shafts for. American Gear Company. No. 161,103; Aug. 8.
Bath tablets and odorizers. A. Schwarzbart. No. 162,709; Aug. 8.
Bill-file holders, pad and memoranda holders for desks, etc. A. G. Mackey. No. 162,499; Aug. 8.
Blankets, comforters, and quilts, Woolen. Philipsborn's, Inc. No. 156,856; Aug. 8.
Book, Traveler's expense. Beach Publishing Co. No. 166,029; Aug. 8.
Bread products. W. B. Johnson. No. 162,257; Aug. 8.
Brick machines. Lancaster Iron Works, Inc. No. 160,765; Aug. 8.
Button machines, molds, and dies. Marshall Field & Company. No. 161,540; July 8.
Buttons. Jordan Marsh Company. No. 162,306; Aug. 8.
Cameras, motion-picture taking and projecting machines, etc. Cleveland Detroit Camera Company. No. 161,176; Aug. 8.
Candies. Vit Candy Co. No. 159,639; Aug. 8.
Candies and chocolate-covered nuts, Chocolate. Famo Nut Co. No. 159,794; Aug. 8.
Candy. Samoset Chocolates Company. No. 160,264; Aug. 8.
Candy. Smith Brothers, Inc. Nos. 159,722–3; Aug. 8.
Candy. Snows Candy Corporation. No. 159,721; Aug. 8.
Candy, viz. chocolate bars. Loose-Wiles Biscuit Company. No. 159,803; Aug. 8.
Canned fish. C. M. Everitt and J. P. Todd, Inc. No. 159,858; Aug. 8.
Canned fruit. Virden Packing Company. No. 159,984; Aug. 8.
Canned fruits. Virden Packing Company. Nos. 159,985–7; Aug. 8.
Canned fruits and vegetables. Brownsville Canning Co. No. 142,126; Aug. 8.
Canned fruits and vegetables. Herbert Packing Co. No. 160,188; Aug. 8.
Canned pineapple. Hawaiian Pineapple Company. No. 160,193; Aug. 8.
Capes, Ladies' and misses'. Treeline Suit Company. No. 160,726; Aug. 8.
Carbon remover, Chemical. Carbon Chase Co. No. 161,973; Aug. 8.
Carburetors. Motor Economists, Inc. No. 161,057; Aug. 8.
Chemical compound. P. M. Berwald. No. 159,644; Aug. 8.
Chemical preparation for use on burning material to color the flames. C. V. Pohlson. Nos. 162,446–7; Aug. 8.
China tableware. George Borgfeldt & Co. No. 166,343; Aug. 8.
Chinaware. Jordan Marsh Company. No. 164,545; Aug. 8.
Cleaning and renovating compounds. Kio Company. No. 162,935; Aug. 8.
Cloth made of cotton, linen, silk, or wool. Philipsborn's, Inc. No. 156,857; Aug. 8.
Clothing and underwear, Women's. Weisman Bros. & Epstein. No. 160,221; Aug. 8.
Clothing, Men's and boys' ready-to-wear. J. C. Penney Company. Nos. 157,949–50; Aug. 8.
Clothing, Men's and boys' ready-to-wear. J. C. Penney Company. No. 158,139; Aug. 8.
Coats, cloaks, suits, etc., Women's, children's, and infants'. Salt's Textile Manufacturing Company. No. 159,113; Aug. 8.
Coats, cloaks, wraps, capes, suits, costumes, etc., Women's, children's, and infants', Amertex Mills, Inc. No. 160,850; Aug. 8.
Coats, sweaters, slipons, and suits, Children's. President Knitting Mills, Inc. No. 160,298; Aug. 8.
Cocoa. Fortune Products Company. No. 159,652; Aug. 8.
Coffee. Columbia Coffee Co. No. 159,846; Aug. 8.
Cold cream, antiseptics, liniment, etc. Atkins-Blakeney Chemical Company. No. 162,281; Aug. 8.
Confection bars, Chocolate-coated. J. L. Strong. No. 159,666; Aug. 8.
Confection, Fruit. C. A. Sanborn. No. 160,029; Aug. 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Corn cure. M. Bernhardt. No. 161,296; Aug. 8.
Corsets, brassières, corset waists, bandeaux, etc. American Lady Corset Co. No. 154,167; Aug. 8.
Cosmetic preparations. Kabushiki Kaisha Hirao Sampei Shoten. No. 157,927; Aug. 8.
Cotton dress goods in the piece. Marshall Field & Company. No. 165,937; Aug. 8.
Cotton goods in the piece. Souchon Riom & Cie. No. 166,408; Aug. 8.
Cotton goods in the piece or roll. Columbia Mills, Inc. No. 165,851; Aug. 8.
Cotton piece goods. J. Grossmann & Co. No. 162,989; Aug. 8.
Crayons. Joseph Dixon Crucible Company. No. 165,356; Aug. 8.
Cream, Cleansing. A. H. Schmidt. No. 162,774; Aug. 8.
Cushions, pads, and mats. Ottawa Cushion Co. No. 164,941; Aug. 8.
Dental preparations. H. N. Creger. No. 162,719; Aug. 8.
Dentists' and doctors' record blanks. Dendoc Company. No. 147,188; Aug. 8.
Depositors' pass books of its school bank and savings club. National Thrift System Company. No. 160,961; Aug. 8.
Disinfectants and insecticides. C. E. Williams. No. 161,950; Aug. 8.
Display and storage cabinets. Peep-In Company. No. 164,191; Aug. 8.
Dyes. L. L. Briden & Co. No. 162,665; Aug. 8.
Egg preserver, Water-glass. Rutland Fire Clay Co. No. 162,454; Aug. 8.
Engines, Steam. Soulé Steam Feed Works. No. 161,068; Aug. 8.
Envelopes. United States Envelope Company. No. 158,495; Aug. 8.
Fabrics in the piece, blankets, automobile and carriage robes, steamer rugs, etc. Salt's Textile Manufacturing Company. No. 165,726; Aug. 8.
Feed, alfalfa, molasses, corn meal, wheat and rye flour. Hardeman-King Co. No. 150,811; Aug. 8.
Ferrous carbonate pill. Lexington Chemical Co. No. 162,185; Aug. 8.
Files and rasps. Heller Brothers Company. No. 160,809; Aug. 8.
Flour, Self-rising wheat. Bernet, Craft & Kauffman Milling Co. No. 141,749; Aug. 8.
Fur coats, sheepskin coats and vests, vests. Ellsworth & Thayer Mfg. Co. No. 153,927; Aug. 8.
Hair nets. West Electric Hair Curler Company. No. 159,132; Aug. 8.
Hair, Preparation for the. R. L. Watkins Company. No. 158,841; Aug. 8.
Hair tonic and pomade. H. V. Adams. No. 160,457; Aug. 8.
Hair tonic and restorer. J. Borell. No. 162,663; Aug. 8.
Hats, Woven fabric. E. Israel. No. 160,063; Aug. 8.
Hose. Fatuch & Nogaim. No. 157,920; Aug. 8.
Hosiery. Golden Belt Manufacturing Company. No. 160,242; Aug. 8.
Hosiery. W. R. Davis & Son. No. 160,695; Aug. 8.
Hosiery. Rockwell & Forester, Inc. No. 160,903; Aug. 8.
Hosiery. M. Rounick. No. 160,432; Aug. 8.
Hosiery. Spring Knit Hosiery Co. No. 159,982; Aug. 8.
Hosiery and knit underwear. West Branch Knitting Company. No. 160,037; Aug. 8.
Ice cream. V. Jones. No. 160,137; Aug. 8.
Ice, Machines for powdering. Crystal Creamed Ice Machine Co. No. 160,790; Aug. 8.
Insect killer, Liquid. Mouch Chemical Co. No. 162,758; Aug. 8.
Knitting pins. Olney, Amsden & Sons Ltd. No. 162,041; Aug. 8.
Laxative compound for aiding digestion. T. F. Brann. No. 162,372; Aug. 8.
Letterheads, envelopes, and cards. Joerns & Johns Printing Company. No. 162,114; Aug. 8.
Liniment. B. Marsalise. No. 156,055; Aug. 8.
Liniment for rheumatism, neuralgia, gout, etc. E. J. Messineo. No. 161,563; Aug. 8.
Liniment, Massaging. S. A. Fitzgerald. No. 162,488; Aug. 8.
Lotion for darkening gray hair, facial creams, toilet lotions, etc. La Tulle Herb Co. No. 162,344; Aug. 8.
Lye. S. Wander & Sons Chemical Co. No. 158,026; Aug. 8.
Magazine or periodical, Monthly. Maryland Assurance Corporation. No. 161,009; Aug. 8.
Mattresses. L. I. Cohn. No. 166,131; Aug. 8.
Mattresses, pillows, and box springs. International Bedding Co. No. 164,054; Aug. 8.
Medicinal and prophylactic preventive of venereal diseases. P. Chapelle. No. 161,170; Aug. 8.
Medicinal preparation for inflammation. C. D. Craig. No. 162,482; Aug. 8.
Medicines. O'B—Special Trust. No. 162,262; Aug. 8.
Milk, Condensed and evaporated. Rogers Milk Corporation. No. 159,766; Aug. 8.
Mirrors and picture frames, Hand. Newark Tortoise Shell Novelty Co. No. 162,692; Aug. 8.
Muskmelons. Imperial Valley Vegetable and Melon Growers Association. No. 159,967; Aug. 8.
Muslins in the piece. Marshall Field & Company. No. 140,309; Aug. 8.
Night robes and pyjamas, Men's and boys'. Tauber, Lipton & Co. No. 151,339; Aug. 8.
Oil, Lubricating. I. P. Esty. No. 141,574; Aug. 8.
Oil, Olive. Halpert Mills, Inc., The. No. 160,341; Aug. 8.
Oil, White mineral. Standard Oil Company, (Incorporated in New Jersey.) No. 162,590; Aug. 8.
Oils, Lubricating, illuminating, and fuel. W. D. Wilson. No. 140,367; Aug. 8.
Ointment and solution for use in the treatment of eczema and compound for colds and coughs. Colton & Collins, Inc. No. 132,170; Aug. 8.
Paper and envelopes, Writing. H. G. Pohlmann. No. 165,031; Aug. 8.
Paper and envelopes, Writing. Marshall Field & Company. Nos. 166,062–3; Aug. 8.
Paper for all purposes. Gilman-Winter Paper Company. No. 162,676; Aug. 8.
Paper mainly used for carbonizing purposes, Tissue. Rose & Frank Co. No. 162,579; Aug. 8.
Paper, Matrix, stereotype, and kraft wrapping. Albemarle Paper Mfg. Co. No. 162,280; Aug. 8.
Paper napkins, Crepe. Johnson-Locke Mercantile Co. No. 164,918; Aug. 8.
Paper, Toilet. Chatfield & Woods Company. No. 164,630; Aug. 8.
Paper, Toilet. Dudley Paper Co. No. 165,856; Aug. 8.
Paper, Toilet. D. S. Walton & Co. No. 156,977; Aug. 8.
Paper, Writing. Gilbert Paper Co. No. 164,805; Aug. 8.
Papers, Writing, printing, ledger, record, etc. New York-New England Company. No. 136,717; Aug. 8.
Paste, Hand. J. B. Matthews. No. 148,502; Aug. 8.
Peanuts and almonds, peanut butter, Salted. United Fig & Date Company. No. 139,555; Aug. 8.
Pickles. F. Russell. No. 160,257; Aug. 8.
Plows, plowshares, and plow parts. Moline Plow Company. No. 160,421; Aug. 8.
Polish, Automobile and furniture. Independent Chemical Company. No. 141,635; Aug. 8.
Polishes, Metal. J. W. Wease Company. No. 163,124; Aug. 8.
Powders and creams, perfumes, toilet waters, rouges, etc., Face, Oxzyn Company. No. 162,642; Aug. 8.
Powders and creams, rouges, skin and toilet waters, etc., Face. F. M. Griffith. No. 162,734; Aug. 8.
Preparation for protection against moths, Liquid. P. B. Littlehale. No. 162,686; Aug. 8.
Preparation for the hair. Koken Companies. No. 162,343; Aug. 8.
Preparation for the hair to promote the growth, and as a cure for dandruff. T. Esposito. No. 162,727; Aug. 8.
Preparation for the treatment of gallstones and other diseases of the kidneys, liver, and bowels. J. Lohmann. No. 162,345; Aug. 8.
Preparation for the treatment of scrofula. Rowlett & Outland Medicine Co. No. 162,770; Aug. 8.
Preparation for the treatment of sores, boils, chapped hands, etc. P. F. Dhinaut. No. 162,291; Aug. 8.
Preparation of the pancreas gland designed for internal use in the treatment of pancreatic insufficiency. Fairchild Bros. & Foster. No. 162,166; Aug. 8.
Radium products. Radium Company of Colorado. No. 157,850; Aug. 8.
Razor sets. American Safety Razor Corporation. No. 160,854; Aug. 8.
Razor strops. Koken Companies. No. 158,623; Aug. 8.
Refrigerators. Lansburgh & Brother. No. 163,993; Aug. 8.
Remedy for indigestion. Professional Products Co. No. 162,569; Aug. 8.
Rouge. M. Levy. No. 162,687; Aug. 8.
Rub, Liquid. Minard Company. No. 162,883; Aug. 3.
Rugs, Wilton. Marshall Field & Company. No. 165,934; Aug. 8.
Salve for coughs, colds, etc. C. A. Mead. No. 159,099; Aug. 8.
Salve for piles or hemorrhoids. Belcher Remedy Co. No. 161,410; Aug. 8.
Salve for skin diseases. Professional Products Co. No. 162,505; Aug. 8.
Sawing and trimming machines. Hill-Curtis Co. No. 160,603; Aug. 8.
Saws. Henry Disston & Sons, Incorporated. No. 160,191; Aug. 8.
Sedative, antispasmodic, analgesic, and hypnotic. A. Buisson. No. 162,661; Aug. 8.
Sewing machines, Loopers for overseaming and overedging. Merrow Machine Company. Nos. 161,737–44; Aug. 8.
Shades, Wood-slat. Hough Shade Corporation. No. 164,594; Aug. 8.
Shoes. S. J. Brouwer Shoe Company. No. 149,120; Aug. 8.
Shoes, Machinery used in manufacture of. Louis G. Freeman Co. No. 161,986; Aug. 8.
Silk and artificial silk piece goods. Golding Fabrics Corporation. No. 166,300; Aug. 8.
Silk goods in the piece. J. A. Migel, Inc. No. 163,819; Aug. 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Silk piece goods. H. R. Mallinson & Co. No. 166,009; Aug. 8.
Silk piece goods, cotton piece goods, and silk and cotton mixture piece goods. Jacob J. Jacoby Company. No. 166,003; Aug. 8.
Silk, satin, and silk and cotton mixtures. Philipsborn's, Inc. No. 156,855; Aug. 8.
Silk, wool, cotton, linen piece goods, and combinations thereof. Meridian Textile Corporation. No. 166,392; Aug. 8.
Soap. Standard Oil Company of New York. No. 162,899; Aug. 8.
Soaps, razor strops, liquid preparations for cleaning cloths, and metal polish. Stewart & Holmes Drug Co. No. 162,967; Aug. 8.
Soaps, shaving soaps, shaving creams, metal polish, etc. W. H. Johnson. No. 162,928; Aug. 8.
Solutions and materials for treating cotton for rendering it proof against flash and spark fires, etc. International Cotton Protecting Company. No. 162,012; Aug. 8.
Stamps, Steel. General Steel & Rubber Stamp Co. No. 161,832; Aug. 8.
Sugar, Malt. American Hominy Company. No. 160,041; Aug. 8.
Suitings for men, Textile. John A. Griffith Co. No. 163,871; Aug. 8.
Suits and overcoats, Men's. L. Shapiro. No. 160,087; Aug. 8.
Suits, Boys'. Jos. Klein Company. No. 159,757; Aug. 8.
Suits, Boys'. J. W. Lewis. No. 161,262; Aug. 8.
Sweaters and vests, Men's, boys', and ladies'. Lamb Knit Goods Co. No. 159,801; Aug. 8.
Tablets and papeteries, Writing. Marshall Field & Company. No. 164,896; Aug. 8.
Tablets, Writing. Western Tablet & Stationery Company. No. 165,221; Aug. 8.
Tonic and milk adjuvant, Building-up. S. J. Selkin. No. 162,897; Aug. 8.
Tooth paste. A. M. Bommer. No. 162,868; Aug. 8.
Vermifuge and stock conditioner. S. R. Fell. No. 162,874; Aug. 8.
Worsted fabrics or cloths in the bolt. Shawmut Woolen Mills. No. 163,010; Aug. 8.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 8, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

2— 67: 1,424,918
71: 1,424,763
122: 1,425,008
187: 1,425,155
4— 13: 1,425,423
21: 1,424,955
32: 1,425,391
5— 16: 1,424,853
18: 1,424,926
41: 1,425,211
6— 10: 1,425,295
7— 3: 1,424,915
8— 5: 1,425,364
9— 17: 1,425,475
10— 89: 1,425,226
14— 16: 1,425,320
15— 25: 1,425,435
49: 1,424,879
127: 1,424,874
136: 1,425,242
265: 1,424,959
16— 49: 1,425,271
122: 1,425,336
18— 1: 1,424,920
1,424,931
2: 1,424,791
1,424,947
8: 1,425,368
42: 1,425,085
45: 1,424,802
19— 117: 1,425,059
20— 91: 1,425,113
22— 166: 1,425,230
188: 1,425,457
23— 13: 1,425,048
24: 1,425,500
24— 3: 1,425,089
6: 1,425,480
11: 1,424,970
15: 1,425,434
18: 1,424,803
19: 1,425,206
101: 1,425,131
133: 1,425,077
136: 1,425,313
143: 1,425,384
200: 1,425,396
206: 1,425,245
208: 1,425,006
224: 1,425,038
1,425,485
225: 1,424,953
230: 1,425,153
1,425,178
263: 1,425,022
25— 2: 1,425,449
43: 1,425,015
102: 1,425,010
124: 1,424,775
131: 1,424,890
156: 1,424,924
29— 17: 1,425,110
26: 1,425,402
67: 1,424,911
86.4: 1,425,075
89: 1,425,296
105: 1,424,861
148.2: 1,425,093
157.6: 1,425,222
1,425,495
160.6: 1,425,188
30— 1: 1,425,061
3: 1,424,960
12: 1,425,463
25: 1,425,081
32— 30: 1,425,055
33— 2: 1,425,175
5: 1,425,278
53: 1,425,321
147: 1,425,283
157: 1,425,133
165: 1,425,027
167: 1,425,201
172: 1,425,193
1,425,438
178: 1,425,284
189: 1,424,941
33— 204: 1,425,056
222: 1,424,804
34— 1: 1,425,197
5: 1,424,994
12: 1,424,969
37: 1,424,904
39: 1,425,314
35— 12: 1,425,157
36— 40: 1,424,975
71: 1,425,263
37— 7: 1,425,303
30: 1,424,910
33: 1,425,424
45: 1,425,165
56: 1,424,750
57: 1,424,878
39— 55: 1,424,913
64: 1,425,411
40— 66: 1,425,159
108: 1,425,137
125: 1,425,465
135: 1,425,142
42— 3: 1,424,773
43— 62: 1,425,355
69: 1,424,827
1,425,410
70: 1,425,023
44— 9: 1,425,136
48: 1,425,453
45— 13: 1,424,833
1,425,459
31: 1,425,072
118: 1,425,228
46— 21: 1,425,464
35: 1,425,166
1,425,425
41: 1,425,087
1,425,107
45: 1,424,982
46: 1,425,198
56: 1,425,058
59: 1,425,376
69: 1,425,433
47— 34: 1,424,829
36: 1,425,257
48— 107: 1,425,108
49— 11: 1,425,124
17: 1,425,218
1,425,225
50— 14: 1,425,105
23: 1,424,846
51— 86: 1,425,290
131: 1,424,764
145: 1,425,312
166: 1,425,296
170: 1,425,121
181: 1,425,446
237: 1,425,331
247: 1,424,875
53— 3: 1,424,774
11: 1,425,371
54— 79: 1,425,301
55— 9: 1,424,839
17: 1,425,078
21: 1,424,906
22: 1,424,857
102: 1,424,966
56— 17: 1,425,479
27: 1,424,943
273: 1,425,489
323: 1,425,365
59— 9: 1,425,128
60— 16: 1,424,798
95: 1,424,786
61— 46: 1,425,114
68: 1,425,471
62— 4: 1,424,826
1,425,265
1,425,266
1,425,267
131: 1,424,843
139: 1,425,019
160: 1,425,216
64— 4: 1,425,204
23: 1,425,092
24: 1,424,960
25: 1,425,492
64— 25: 1,425,493
55: 1,425,378
1,425,379
56: 1,425,000
96: 1,425,177
106: 1,425,305
65— 45: 1,425,328
53: 1,425,432
62: 1,424,761
66— 12: 1,425,106
21: 1,425,288
67— 24: 1,425,080
68— 10: 1,425,030
26: 1,424,759
32: 1,425,099
70— 46: 1,425,060
47: 1,425,221
90: R. 15,428
129: 1,425,408
72— 41: 1,425,181
1,425,302
106: 1,425,117
1,425,118
1,425,119
73— 82: 1,425,116
74— 7: 1,424,766
14: 1,425,026
16: 1,425,233
28: 1,425,042
33: 1,424,804
1,425,109
34: 1,425,172
1,425,430
36: 1,425,496
39: 1,425,227
41: 1,425,144
48: 1,424,997
50: 1,424,797
1,425,209
1,425,304
54: 1,425,007
56: 1,425,094
58: 1,425,002
1,425,214
1,424,784
59: 1,424,790
64: 1,424,767
1,424,768
65: 1,425,021
81: 1,425,404
1,425,413
84: 1,424,925
109: 1,425,017
75— 1: 1,424,782
1,425,111
1,425,330
17: 1,425,386
76— 73: 1,425,380
77— 3: 1,425,202
22: 1,424,988
28: 1,425,388
81— 3: 1,425,447
33: 1,425,275
53: 1,425,359
161: 1,425,415
177: 1,424,794
82— 8: 1,424,754
83— 10: 1,424,792
1,425,161
11: 1,424,922
1,424,923
54: 1,425,441
56: 1,425,039
60: 1,425,488
71: 1,425,235
85: 1,425,185
1,425,186
1,425,187
1,425,327
84— 122: 1,424,903
171: 1,425,032
400: 1,425,318
85— 13: 1,425,199
51: 1,425,182
88— 17: 1,424,877
24: 1,424,847
41: 1,424,848
88— 53: 1,424,828
54: 1,425,452
1,425,379
89— 2: 1,424,751
33: 1,425,120
90— 15: 1,424,755
33: 1,425,122
91— 31: 1,424,914
45: 1,425,333
60: 1,424,986
68: 1,425,306
1,425,307
1,425,474
92— 2: 1,424,883
44: 1,425,240
93— 6: 1,425,481
51: 1,425,044
94— 28: 1,425,102
95— 13: 1,424,816
18: 1,424,886
75: 1,425,405
1,425,450
1,425,461
100: 1,424,873
97— 21: 1,425,012
32: 1,425,409
42: 1,425,372
43: 1,425,422
1,425,451
46: 1,425,035
98— 4: 1,424,944
27: 1,425,028
99— 2: 1,425,143
10: 1,425,497
10: 1,424,927
11: 1,425,033
101— 29: 1,425,357
37: 1,425,280
69: 1,425,050
301: 1,425,285
358: 1,424,757
103— 6: 1,425,112
38: 1,424,823
54: 1,425,394
63: 1,425,308
67: 1,425,191
80: 1,425,276
87: 1,425,308
111: 1,424,964
105— 48: 1,425,277
50: 1,424,849
139: 1,425,454
250: 1,424,770
280: 1,425,210
341: 1,424,814
410: 1,425,207
430: 1,425,149
107— 8: 1,425,337
9: 1,424,806
57: 1,425,342
109— 1: 1,425,324
110— 104: 1,425,145
172: 1,425,095
184: 1,425,322
112— 45: 1,424,854
73: 1,424,851
219: 1,424,844
113— 48: 1,425,294
114: 1,425,374
116: 1,424,945
114— 56: 1,425,243
66.5: 1,424,811
116— 48: 1,424,813
63: 1,424,859
67: 1,424,963
82: 1,424,891
106: 1,425,287
114: 1,425,255
117— 26: 1,425,084
118— 18: 1,425,053
43: 1,425,363
145— 47: 1,425,260
62: 1,425,270
127: 1,425,300
146— 9: 1,425,431
147— 48: 1,424,972
149— 16: 1,425,467
151— 25: 1,424,978
152— 2: 1,424,971
8: 1,424,855
120— 33: 1,424,985
44: 1,425,150
121— 32: 1,425,482
164: 1,424,890
122— 6: 1,424,948
245: 1,425,162
123— 8: 1,424,977
55: 1,425,057
62: 1,424,872
153— 2: 1,424,831
38: 1,425,135
45: 1,425,261
68: 1,425,208
80: 1,425,426
154— 1: 1,425,147
155— 25: 1,425,325
43: 1,425,354
180: 1,425,345
156— 19: 1,425,247
24: 1,425,052
1,425,160
39: 1,425,484
158— 31: 1,424,808
33: 1,425,362
45.5: 1,425,338
75: 1,424,795
1,425,196
77: 1,425,343
86: 1,424,817
104: 1,424,760
112: 1,425,097
163— 5: 1,425,239
164— 88: 1,424,785
1,425,041
91: 1,424,895
112: 1,424,856
168— 3: 1,424,869
41: 1,424,800
169— 23: 1,425,254
170— 152: 1,425,487
163: 1,425,179
171— 321: 1,424,954
172— 239: 1,424,769
173— 311: R. 15,429
343: 1,425,049
354: 1,425,180
175— 183: 1,424,752
1,424,899
265: 1,425,079
356: 1,425,091
372: 1,425,003
177— 311: 1,425,462
314: 1,424,993
179— 90: 1,425,123
122: 1,425,183
182: 1,425,047
189: 1,424,963
180— 14: 1,424,951
17: 1,425,316
70: 1,424,867
77: 1,425,070
183— 34: 1,425,473
110: 1,425,246
184— 103: 1,424,974
187— 62: 1,425,332
87: 1,425,203
188— 32: 1,424,957
106: 1,424,929
189: 1,425,291
218: 1,425,414
232: 1,425,064
249: 1,424,852
259: 1,424,893
189— 21.3: 1,425,361
37: 1,424,912
190— 43: 1,425,491
52: 1,425,217
191— 3: 1,425,375
192— 10: 1,425,252
67: 1,425,156
68: 1,425,360
116: 1,425,353
193— 27: 1,425,319
195— 20: 1,425,065
196— 19: 1,425,074
25: 1,424,908
197— 26: 1,425,020
41: 1,425,024

197— 43: 1,425,326
60: 1,425,390
114: 1,424,841
126: 1,425,293
135: 1,425,248
144: 1,424,905
198— 39: 1,425,251
189: 1,424,850
199— 41: 1,424,887
44: 1,424,917
62: 1,425,132
68: 1,424,870
200— 6: 1,424,901
24: 1,425,403
26: 1,425,200
43: 1,425,428
67: 1,424,809
94: 1,424,921
106: 1,425,279
202— 11: 1,424,777
204— 1: 1,425,184
29: 1,425,163
1,425,499
206— 41: 1,424,834
208— 36: 1,425,082
38: 1,425,220
45: 1,425,380
70: 1,425,215
97: 1,424,983
114: 1,424,822
210— 51: 1,425,289
164: 1,425,366
211— 8: 1,424,772
1,425,416
9: 1,425,259
16: 1,424,885
25: 1,425,347
28: 1,425,317
212— 59: 1,425,045

214— 11: 1,425,387
17: 1,425,346
18: 1,425,499
35: 1,425,115
51: 1,425,051
52: 1,424,871
65. 5: 1,424,819
141: 1,425,399
215— 21: 1,424,802
38: 1,425,212
1,425,401
40: 1,425,349
55: 1,425,456
58: 1,425,009
65: 1,425,237
74: 1,424,862
100: 1,424,995
1,425,417
216— 12: 1,425,351
52: 1,425,250
217— 49: 1,425,241
70: 1,425,470
89: 1,425,311
124: 1,425,262
218— 15. 2: 1,425,016
219— 14: 1,425,440
19: 1,425,344
26: 1,425,040
38: 1,424,898
1,424,979
41: 1,425,034
220— 42: 1,425,236
43: 1,425,385
68: 1,425,195
80: 1,425,232
223— 19: 1,425,460
52: 1,424,789
226— 37: 1,425,100
228— 17: 1,425,274

228— 64: 1,424,934
229— 5. 6: 1,425,169
5. 7: 1,425,168
6: 1,425,264
23: 1,425,068
34: 1,424,830
35: 1,425,256
43: 1,425,335
49: 1,425,069
72: 1,424,856
73: 1,425,004
230— 27: 1,424,928
1,425,126
1,425,494
31: 1,425,192
33: 1,424,864
1,424,961
232— 41: 1,424,815
44: 1,425,400
234— 1: 1,425,421
5. 5: 1,425,229
235— 55: 1,425,352
70: 1,424,807
89: 1,425,244
236— 42: 1,425,189
74: 1,424,896
237— 1: 1,424,958
12. 3: 1,425,377
238— 14: 1,425,101
30: 1,425,125
31: 1,425,104
168: 1,425,036
246: 1,425,468
304: 1,425,309
1,425,310
324: 1,425,224
329: 1,425,223
240— 1: 1,425,139
1,425,140

240— 7: 1,425,190
41: 1,424,793
62: 1,425,439
241— 6: 1,424,771
1,424,801
242— 84. 4: 1,425,141
105: 1,425,076
244— 12: 1,424,998
22: 1,425,419
29: 1,425,455
246— 13: 1,424,980
63: 1,425,315
1,425,397
380: 1,425,253
1,425,472
247— 1: 1,425,170
25: 1,425,382
31: 1,425,011
248— 10: 1,424,999
29: 1,425,067
250— 3: 1,424,805
15: 1,424,866
20: 1,425,154
251— 3: 1,425,358
10: 1,424,776
25: 1,425,088
155: 1,424,810
254— 2: 1,424,962
26: 1,425,369
91: 1,425,134
103: 1,424,952
150: 1,424,900
190: 1,425,090
255— 18: 1,424,799
28: 1,424,820
257— 130: 1,425,146
136: 1,425,483
199: 1,425,273
258— 10: 1,425,167

258— 22: 1,425,406
26: 1,424,858
259— 75: 1,425,098
91: 1,425,395
260— 98: 1,425,392
1,425,393
166: 1,425,130
262— 9: 1,425,103
265— 43: 1,425,466
47: 1,424,888
266— 6: 1,425,238
19: 1,424,825
267— 9: 1,424,783
19: 1,424,902
28: 1,424,940
29: 1,425,176
270— 79: 1,425,071
271— 32: 1,425,350
62: 1,424,916
274— 2: 1,424,835
35: 1,424,838
38: 1,425,458
42: 1,425,018
1,425,281
1,425,486
277— 18: 1,425,478
278— 3: 1,425,407
279— 69: 1,425,213
119: 1,424,899
280— 33. 1: 1,424,788
36: 1,424,796
56: 1,424,938
94: 1,424,942
150: 1,425,448
282— 21: 1,424,946
23: 1,424,967
283— 9: 1,424,837
34: 1,424,919
66: 1,424,968

285— 3: 1,425,083
31: 1,425,418
286— 7: 1,425,268
287— 1: 1,425,164
89: 1,424,935
288— 1: 1,424,930
290— 12: 1,424,860
37: 1,425,001
291— 28: 1,424,758
292— 57: 1,424,900
124: 1,424,936
212: 1,424,762
259: 1,424,812
275: 1,425,282
325: 1,424,976
293— 5: 1,425,062
24: 1,425,127
55: 1,425,272
294— 71: 1,425 063
1,425,383
296— 6: 1,425,171
45: 1,425,031
95: 1,424,939
103: 1,425,014
139: 1,425,442
1,425,443
1,425,444
1,425,445
299— 95: 1,425,297
301— 6: 1,425,073
23: 1,425,025
40: 1,425,129
41: 1,425,234
44: 1,425,258
52: 1,424,909
63: 1,424,818
303— 39: 1,425,477
306— 11: 1,425,219

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF AUGUST, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Achelpohl, John W. (See Hammond, H. D., Achelpohl, and Leslie.)
Acker, Edwin. (See Kunert, F., and Acker.)
Acme Artificial Silk Company, The. (See Huttinger, Charles A., assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Herzberg, W., and Scharfenberg, assignors.)
Actien Gesellschaft für Anilin Fabrikation. (See Löffler, Reinhold, assignor.)
Adams, George. (See Raymond, P. J., and Adams.)
Adams, Warren S., Buffalo, N. Y. Cooling apparatus. No. 1,425,739; Aug. 15.
Adamson, David H. (See Clauss, E. A., and Adamson.)
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pumping system. No. 1,425,928; Aug. 15.
Akt. Ges. Vorm Seidel & Naumann. (See Baeseler, Heinrich F. E., assignor.)
Albert, August, Munich, Germany. Derivatives of organic arsenic compounds. No. 1,425,929; Aug. 15.
Albert, August, Munich, Germany. Manufacturing new arsenic oxides or arsenobenzols. No. 1,425,930; Aug. 15.
Albert, August, Munich, Germany. Producing new aromatic compounds containing carbonylgroups with trivalent arsenic. No. 1,425,931; Aug. 15.
Alder, Frederick, and J. C. Rogers, Houston, Tex. Lint cleaner and batting machine. No. 1,425,502; Aug. 15.
Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Cultivator. No. 1,425,932; Aug. 15.
Allen, S. L., & Co. (See Allen, Charles J., assignor.)
Allen Wrench & Tool Company. (See Webster, Oscar A., assignor.)
Allis-Chalmers Manufacturing Company. (See Deutsch, Edward I., assignor.)
Allis-Chalmers Manufacturing Company. (See McCoy, James P. A., assignor.)
Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
Allyne, Edmund E., assignor, by mesne assignments, to Aluminum Manufactures Incorporated, Cleveland, Ohio. Piston. No. 1,426,138; Aug. 15.
Alma Manufacturing Company of Baltimore City. (See Kerngood, Allen H., assignor.)
Aluminum Manufactures Incorporated. (See Allyne, Edmund E., assignor.)
American Dan Bottle Seal Corporation. (See Nordstrom, Elof, assignor.)
American Electrical Heater Company. (See Kuhn, F., and Thomas, assignors.)
American Hard Rubber Co. (See Boyer, Edwin S., assignor.)
American Hard Rubber Co. (See Kohlmeyer, G., Wing, and Scheihammer, assignors.)
American Machine & Foundry Company. (See Smith, Elberon D., assignor.)
American Piano Company. (See Dwelly, Edwin S., assignor.)
American Steel Foundries. (See Hedgcock, William C., assignor.)
Andersen, Anders P., Providence, R. I. Automobile radiator. No. 1,425,933; Aug. 15.
Anderson, Charles W., Brooklyn, N. Y. Hoisting machine. No. 1,426,139; Aug. 15.
Anderson, Hiram C., New York, N. Y. Resilient wheel. No. 1,425,623; Aug. 15.
Andrew, Thomas, Rochdale, England, assignor to No. 2 D. R. Cotton Mills, Limited, Regent's Park, county of London, England. Treatment of canvas and similar woven fabrics. No. 1,425,934; Aug. 15.
Andrist, Loren W. R., Mankato, Minn. Camping attachment for motor vehicles. No. 1,426,031; Aug. 15.
Anselm, William B., Norfolk, Va. Folding chair. No. 1,426,140; Aug. 15.
Anthony Company. (See Anthony, William C., assignor.)
Anthony, William C., assignor to Anthony Company, Streator, Ill. Body subdivision. No. 1,425,821; Aug. 15.
Apollo Magneto Corporation. (See Fuegel, G., and Schmid, assignors.)
Aridor Company, The. (See Moyer, Paul S., assignor.)
Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Coal handling system. No. 1,425,822; Aug. 15.

Arnold, Harold A., Lenora, Kans. Drop-cover check. No. 1,425,568; Aug. 15.
Arnold, Samuel, 3d, Ben Avon, Pa. Control mechanism for hoisting apparatus. No. 1,425,569; Aug. 15.
Atlantic Tubing Company. (See Burke, Peter J., assignor.)
Aufderheide, Benjamin F., sr., Davenport, Iowa. Sash weight. No. 1,425,570; Aug. 15.
Aukerman, Nathaniel B., Lakewood, Ohio. Process of and means for recovering silver from photographic and other baths. No. 1,425,935; Aug. 15.
Auto Accessories Mfg. Co. (See Leitch, John H., assignor.)
Automatic Non-Rewinding Reel Company. (See Gottschau, Christian M., assignor.)
Auto-Ordnance Corporation. (See Thompson, John T., assignor.)
Avery, Irving F. (See Press, J. H., and Avery.)
Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for the manufacture of esters. No. 1,425,624; Aug. 15.
Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Manufacture of esters. No. 1,425,625; Aug. 15.
Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Production of ester condensation products. No. 1,425,626; Aug. 15.
Baeseler, Heinrich F. E., assignor to Akt. Ges. vorm. Seidel & Naumann, Dresden, Germany. Platen lock. No. 1,426,242; Aug. 15.
Baeseler, Heinrich F. E., assignor to Akt. Ges. vorm. Seidel & Naumann, Dresden, Germany. Arrangement of the paper-pressing rollers of typewriting machines. No. 1,426,243; Aug. 15.
Bailey, Ervin G., Cleveland Heights, Ohio, assignor to Bailey Meter Company, Boston, Mass. Apparatus for metering granular materials. No. 1,425,936; Aug. 15.
Bailey Meter Company. (See Bailey, Ervin G., assignor.)
Baker, Eugene L., Taunton, Mass. Stove oven. No. 1,426,032; Aug. 15.
Baker, Hugh J., Indianapolis, Ind. Collapsible falsework for concrete floors. No. 1,425,823; Aug. 15.
Baldwin, James L., Chicago, Ill. Overhead carrier system. No. 1,425,740; Aug. 15.
Bandura, Andrew, Chicago, Ill. Mining sheave. No. 1,426,271; Aug. 15.
Banks, Frederick R., Paterson, N. J., assignor to McNab & Harlin Manufacturing Company, New York, N. Y. Valve handwheel. No. 1,426,272; Aug. 15.
Barber, Albert J., Steubenville, assignor to The Pipe Machinery Company, Cleveland, Ohio. Attachment for tapping machines. No. 1,426,273; Aug. 15.
Barber, Franklin L., assignor to Standard Car Truck Company, Chicago, Ill. Roller side bearing. No. 1,425,741; Aug. 15.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Delivery mechanism for printing machines. No. 1,426,033; Aug. 15.
Barber, Saul P., Pasadena, Calif. Wheel. No. 1,425,824; Aug. 15.
Bardelli, Arturo, Milan, Italy. Automatic firearm. No. 1,425,627; Aug. 15.
Barducci, Pliade, Naples, Italy. Press for pastry materials. No. 1,426,244; Aug. 15.
Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,425,825; Aug. 15.
Barr and Stroud, Limited. (See Barr, A., and Stroud, assignors.)
Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Range finder and like instrument for use on shipboard. No. 1,425,742; Aug. 15.
Barr, John W. (See Kaucher, R. W., and Barr.)
Barry, Gerald G., Chicago, Ill. Rim for vehicle tires. No. 1,425,826; Aug. 15.
Bartholomew, William, assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill. Centrifugal machine. No. 1,425,628; Aug. 15.
Barton, William L., assignor of forty-five per cent to J. L. Kerr, Vancouver, British Columbia, Canada. Overhead track line. No. 1,425,827; Aug. 15.
Baruch, Sydney N., San Francisco, Calif. Apparatus for producing therapeutical effects. No. 1,425,743; Aug. 15.

Baskin, Edwin T., Kansas City, Mo. Laundry device. No. 1,425,828; Aug. 15.

Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-forming machine. No. 1,425,503; Aug. 15.

Bauer, Bruno, Zurich, and A. von Zeerleder, assignors to Societe Anonyme des Aeliers de Secheron, Geneva, Switzerland. Electric resistance heater for high temperatures. No. 1,426,245; Aug. 15.

Bauer, Jacob L., Milwaukee, Wis. Lifting device for phonograph disks. No. 1,426,034; Aug. 15.

Bayne, George G., et al. (See Branstrator, Clement G., assignor.)

Bayne Manufacturing Company et al. (See Branstrator, Clement G., assignor.)

Beach, Howard, et al. (See Christie, Hans L., assignor.)

Bear, Jeanle, Pittsburgh, Pa. Garter. No. 1,425,571; Aug. 15.

Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Zirconium alloy and making same. No. 1,425,572; Aug. 15.

Beggs, Carl T., Long Beach, Calif. Polishing machine. No. 1,425,829; Aug. 15.

Belke, William E., Chicago, Ill. Process and apparatus for electroplating. No. 1,426,141; Aug. 15.

Bell, Harvey W., Boundbrook, N. J., assignor to A. C. Fraser, trustee, New York, N. Y. Steam power plant. No. 1,425,629; Aug. 15.

Bell, Robert J., Richmond, Va. Mat. No. 1,425,830; Aug. 15.

Benedict, Maria A., New York, N. Y. Egg carrier. No. 1,426,246; Aug. 15.

Bengtson, Albin, Luck, Wis. Adjustable brace. No. 1,426,247; Aug. 15.

Benjamin Motor Products Co. (See Perry, Frank R., assignor.)

Benner, Raymond C., and H. F. French, Fremont, Ohio., assignors to National Carbon Company, Inc. Electric battery. No. 1,425,573; Aug. 15.

Benson, Ralph W., et al. (See Heller, Jesse B., assignor.)

Berry, George. (See Haughton, J. E., and Berry.)

Bethke, Leo, assignor to Chain Belt Company, Milwaukee, Wis. Sprocket chain. No. 1,426,248; Aug. 15.

Bethlehem Shipbuilding Corporation. (See Neitzel, Frank E., assignor.)

Biderman, Julius, New York, N. Y. Comb. No. 1,425,937; Aug. 15.

Big-Four Electric Company. (See Holmes, Andrew J., assignor.)

Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer construction. No. 1,425,504; Aug. 15.

Bird, Arthur. (See Fisher, Lawrence W., assignor.)

Bishop, Charles W., Los Angeles, Calif. Shock absorber. No. 1,425,831; Aug. 15.

Blakely, William W., Detroit, Mich. Leaf-spring compressor. No. 1,425,832; Aug. 15.

Blakeslee, George S., Chicago, Ill. Washing machine. No. 1,426,142; Aug. 15.

Blaw-Knox Company. (See Robinson, George L., assignor.)

Blieberger, Charles, assignor to A. A. Thomas, New York, N. Y. Apparatus for recording, reproducing, and amplifying sound. No. 1,425,505; Aug. 15.

Bliss, Elmer J., Boston, Mass. Device for measuring feet. No. 1,426,143; Aug. 15.

Block, Louis, Mamaroneck, N. Y. Compressing gases. No. 1,425,938; Aug. 15.

Bochonok, Stefan, Pittsburgh, Pa. Nail-holding device. No. 1,426,249; Aug. 15.

Bock, Charles, assignor to A. Hoffman, Chicago, Ill. Spring hinge. No. 1,425,939; Aug. 15.

Bock, Charles. (See Fredrich, J. H., and Bock.)

Boston Clip and Tag Company. (See Williams, George H., assignor.)

Boulassier, Louis R. W., Paris, France. Apparatus for measuring the value of the efforts and of the deformations to which organs are submitted when working. No. 1,425,506; Aug. 15.

Bowers, Claude E., Los Angeles, Calif. Table lock. No. 1,425,833; Aug. 15.

Bowser, S. F., & Company. (See Hinds, Sherwood, assignor.)

Boyd, Walter C., Shepherdsville, Ky. Valve for radiators. No. 1,425,940; Aug. 15.

Boyer, Edwin S., Plainfield, N. J., assignor to American Hard Rubber Co., New York, N. Y. Pattery jar and making same. No. 1,425,574; Aug. 15.

Boyer, Fred S., Knightstown, Ind. Motor-vehicle spotlight. No. 1,426,250; Aug. 15.

Boyles, David S., Rock Hill, S. C. Clothespin. No. 1,426,251; Aug. 15.

Bradley Knitting Company. (See Johnson, Arthur W., assignor.)

Bradley, Walter E. F., Piermont, N. Y. Production of carbon. No. 1,426,144; Aug. 15.

Brady, James E., New York, N. Y. Stud. No. 1,425,507; Aug. 15.

Branstrator, Clement G., assignor of one-fourth to J. C. Hoehnen, one-fourth to G. G. Bayne, and one-fourth to Bayne Manufacturing Company, Bushnell, Ill. Power transmission. No. 1,426,035; Aug. 15.

Bratcher, Ike, and O. Burghardt, Protection, Kans.; said Burghardt assignor to said Bratcher. Calf feeder. No. 1,426,252; Aug. 15.

Bratschie, Amiel, New Castle, Pa. Pruning shears. No. 1,425,744; Aug. 15.

Bremer, Henry R., Kansas City, Mo. Metal-flanging machine. No. 1,426,253; Aug. 15.

Brickell, William S., Buffalo, N. Y. Wheel. No. 1,426,254; Aug. 15.

Bridge, Arthur F., Los Angeles, Calif. Pressure-gas holder. No. 1,426,145; Aug. 15.

Briggs, D. F., Company, The. (See Slaiger, Henry, assignor.)

Brisben, George R., Cleveland, Ohio. Emery-wheel-dressing tool. No. 1,425,941; Aug. 15.

Brisbois, Odilon, Gary Ind. Electric starter. No. 1,426,274; Aug. 15.

Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine and method for use in shaping uppers. No. 1,425,942; Aug. 15.

Broecker, William, Minneapolis, Minn. Potato carrier for potato diggers. No. 1,425,745; Aug. 15.

Broman, Peter, assignor to Brown Safety Ladder Mfg. Co., Chicago, Ill. Ladder-making machine. No. 1,426,255; Aug. 15.

Brook, Percy S. (See Hirst, J. A., and Brook.)

Brooks, Benjamin T., Bayside, N. Y., assignor of one-half to The Viscoloid Co., Leominster and one-half to The Fiberloid Corporation, Indian Orchard, Mass. Manufacture of Borneols and camphene. No. 1,426,036; Aug. 15.

Brown, Charles H., assignor of twenty-four and one-half per cent to J. Eckland and twenty-four and one-half per cent to G. R. Lincks, Richmond, Calif. Antiknocking device for pistons of internal-combustion engines. No. 1,425,630; Aug. 15.

Brown, Charles H., Indianapolis, Ind. Shock absorber. No. 1,425,834; Aug. 15.

Brown Safety Ladder Mfg. Co. (See Broman, Peter, assignor.)

Bryon, Robert J., et al. (See Heller, Jesse B., assignor.)

Brzozowski, Joseph, Wilkes-Barre, Pa. Motor fan. No. 1,426,256; Aug. 15.

Brzyski, Joe, and W. Felski, Milwaukee, Wis. Washboiler. No. 1,426,257; Aug. 15.

Buckeye Iron and Brass Works. (See Trace, Russell A., assignor.)

Bufe, Otto, Grand Marais, Mich. Autosleigh attachment. No. 1,425,835; Aug. 15.

Bugbee, Lucian W., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind. Toric-lens series and making same. No. 1,426,146; Aug. 15.

Bugbee, Lulcan W., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind. Toric-lens series and making same. No. 1,426,147; Aug. 15.

Bugbee, Lulcan W., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind. Toric-lens series and making the same. No. 1,426,148; Aug. 15.

Burghardt, Oscar. (See Bratcher, I., and Burghardt.)

Burke, Charles R., assignor to L. P. Burke, Pittsburgh, Pa. Producing light hydrocarbons. No. 1,426,149; Aug. 15.

Burke, Lulu P. (See Burke, Charles R., assignor.)

Burke, Peter J., Meshanticut Park, assignor to Atlantic Tubing Company, Providence, R. I. Device for forming coupling ends for gas and flexible metal tubing. No. 1,426,037; Aug. 15.

Burkholder, Allen B., Flint, Mich. Roller bearing. No. 1,426,038; Aug. 15.

Burns, William C., Albany, Oreg. Cuboid support. No. 1,426,258; Aug. 15.

Burton, Carl O., Duluth, Minn. Track sander. No. 1,425,575; Aug. 15.

Butler, Hugh M. (See Davis, Charles W., assignor.)

Byrnes, Clarence P., Sewickley, Pa. Method of and apparatus for drawing glass. No. 1,425,746; Aug. 15.

Campbell, A. S., Company. (See Campbell, Alphonso S., assignor.)

Campbell, Alphonso S., West Medford, assignor to A. S. Campbell Company, Boston, Mass. Making rings and the like. No. 1,426,275; Aug. 15.

Campbell, Ernest P., Stockton, Calif. Annular-bearing puller. No. 1,425,836; Aug. 15.

Canadian Car & Foundry Company. (See Shaw, Ross O., assignor.)

Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Transfer mechanism. No. 1,426,039; Aug. 15.

Carbo-Oxygen Company. (See Harris, John, assignor.)

Carlock, Fredrick. (See Frank, G. W., jr., and Carlock.)

Carlson, Androv H., assignor to The Prestoy Manufacturing Company, Bridgeport, Conn. Adjustable holder. (Reissue.) No. 15,431; Aug. 15.

Carmel, Joseph, assignor to S. Orenbuch, New York, N. Y. Radiator valve. No. 1,426,150; Aug. 15.

Carmichael, Peter M., New York, N. Y. Magazine fuse plug. No. 1,426,040; Aug. 15.

Carrm, Bazel E., New York, N. Y. Convertible vehicle body. No. 1,426,153; Aug. 15.

Carson, Hugh J., Fairfax, Minn. Feed regulator. No. 1,426,041; Aug. 15.

Carter, William, Company, The. (See Redmond, Harriet L., assignor.)

Case, J. I., Threshing Machine Company. (See Krause, Norman R., assignor.)

Cason, Charles S., Oakland, Calif. Lather's hatchet. No. 1,426,151; Aug. 15.

Chain Belt Company. (See Bethke, Leo, assignor.)

Chain Belt Company. (See Roddy, Gustav R., assignor.)

Chantemerle, Joseph L. (See Garcelon, G. H., and Chantemerle.)

Chapman, Charles E., Chicago, Ill. Moving display apparatus for jewelry. No. 1,425,508; Aug. 15.

Chase Companies, The. (See Crane, Arthur T., assignor.)

Chase Companies, The. (See Recker, Adolph C., assignor.)

Chemical Foundation, Inc., The. (See Korselt, Johannes, assignor.)

Chemical Foundation, Inc., The. (See Kunert, F., and Acker, assignors.)

Chemical Foundation, Inc., The. (See Oehme, Hermann, assignor.)

Chemical Foundation, Inc., The. (See Röhm, Otto, assignor.)

Chemical Foundation, Inc., The. (See Türk, Gustav, assignor.)

Christie, Hans L., assignor of one-fourth to C. H. Clark, one-fourth to H. Beach, and one-fourth to F. Shaefer, Pittsburgh, Pa. Construction of extensible towers. No. 1,426,276; Aug. 15.

Christiensen, Jens P. (See Petty, William E., assignor.)

Church, Julian E., Providence, R. I. Watch fob. No. 1,426,042; Aug. 15.

Cinch Fastener Corporation. (See Vodicka, John, assignor.)

Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Catalyst and preparing the same. No. 1,425,576; Aug. 15.

Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Preparing purified gas mixtures. No. 1,425,577; Aug. 15.

Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Preparing hydrogen. No. 1,425,578; Aug. 15.

Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Generating hydrogen and hydrogen-nitrogen mixtures. No. 1,425,579; Aug. 15.

Clark, Charles H., et al. (See Christie, Hans L., assignor.)

Clark, David H., Orangeburg, N. Y. Dispensing apparatus. No. 1,425,837; Aug. 15.

Clarke, Frederick F., Franklin, Pa., assignor to The Colburn Machine Tool Company, Cleveland, Ohio. Means for dellvering cutting compound to the tools of vertical boring and turning mills. No. 1,425,943; Aug. 15.

Clarke, Walter H., Toronto, Ontario, Canada. Resilient heel. No. 1,425,509; Aug. 15.

Clauss, Eugene A., Providence, and D. H. Adamson, Cranston, R. I. Bookbinding. No. 1,426,043; Aug. 15.

Clay, Harry C., Columbus, Ind., assignor to Emerson-Brantingham Company, Rockford, Ill. Valve-gear mechanism. No. 1,425,631; Aug. 15.

Cleveland Pneumatic Tool Company, The. (See Greve, Louis W., assignor.)

Click, William S., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator brush. No. 1,425,632; Aug. 15.

Clifton, William E., and J. S. Ewart, Nottingham, assignors to Cliftophone Limited, London, England. Sound recording and reproducing instrument. No. 1,425,944; Aug. 15.

Cliftophone Limited. (See Clifton, W. E., and Ewart, assignors.)

Clum, Ira E., Lima, Ohio. Anchor for fences. No. 1,426,044; Aug. 15.

Clum, Ira E., Lima, Ohio. Corncrib. No. 1,426,045; Aug. 15.

Coates, Leonard R., Laurel, Md. Phosphatic fertilizer material and making the same. No. 1,425,747; Aug. 15.

Cocking, Allen T., Sutton, Coldfield, and C. H. Lilly, Birmingham, England. Production of glycerin by fermentation. No. 1,425,838; Aug. 15.

Cohen, Jacob L., assignor of one-third to L. Ruskin, Chicago, Ill. Wash-room fixture. No. 1,426,046; Aug. 15.

Cohen, Solomon. (See Shirk, A. J., and Cohen.)

Colburn Machine Tool Company, The. (See Clarke, Frederick F., assignor.)

Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Soldering pot and soldering iron. No. 1,425,633; Aug. 15.

Collins, Cap B., Oak Park, assignor to Collins Safety Razors, Chicago, Ill. Rotary razor sharpener. No. 1,426,152; Aug. 15.

Collins Safety Razors. (See Collins, Cap B., assignor.)

Conant, Florence L., Yonkers, N. Y. Ornamental building trimmings. No. 1,426,277; Aug. 15.

Congdon, Ernest W., jr., Glen Ridge, N. J. Self-righting post. No. 1,425,945; Aug. 15.

Cook, Clyde C. (See Frazier, George E., assignor.)

Cooke, Charles J., Washington, D. C. Airship. No. 1,426,047; Aug. 15.

Coltrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Cox, Daniel R., and D. A. Kinnie, Pasadena, Calif. Gasoline-line lock. No. 1,426,154; Aug. 15.

Cramer, William. (See Jacobs, I. M., and Cramer.)

Crane, Arthur T., assignor to The Chase Companies, Inc., Waterbury, Conn. Visible spark plug. No. 1,425,748; Aug. 15.

Crane, Arthur T., assignor to The Chase Companies Inc., Waterbury, Conn. Visible spark plug. No. 1,425,749; Aug. 15.

Crawford, James H., Deadwood, S. Dak. Combined knife and fork. No. 1,425,750; Aug. 15.

Creamery Package Mfg. Company, The. (See Valerius, T. L., and Larsen, assignors.)

Crossley, Kenneth I., and W. L. Webb, Openshaw, Manchester, England. Horizontal internal-combustion gas and oil engine. No. 1,425,946; Aug. 15.

Crossman, Louis, New York, N. Y. Undercoating composition. No. 1,425,510; Aug. 15.

Cruces, Samuel, and E. Lobo, Mexico, Mexico. Controlling device for carburetors. No. 1,426,259; Aug. 15.

Cummings, Norman A., Detroit, Mich. Gang plow for tractors. No. 1,425,947; Aug. 15.

Curtis, Edmund A., assignor to Curtis Engineering Corporation, Chicago, Ill. Spring suspension. No. 1,425,839; Aug. 15.

Curtis Engineering Corporation. (See Curtis, Edmund A., assignor.)

Curtis, Jesse T., Bement, Ill. Rim-lug shim. No. 1,425,511; Aug. 15.

Cutler-Hammer Mfg. Co., The. (See Stoekle, Erwin R., assignor.)

Dart, Willis W., Ogleshy, Okla. Dirigible headlight. No. 1,425,751; Aug. 15.

Dartois, Victor G., Paris, France. Machine for cutting bevel-gear wheels with helical or straight teeth. No. 1,426,278; Aug. 15.

Davidson, Frederck L., Halifax, Nova Scotia, Canada. Dish-washing machine. No. 1,426,260; Aug. 15.

Davis, Alfred V., Elkton, Md. Electrolytic cell. No. 1,425,752; Aug. 15.

Davis, Charles W., assignor of three-fourths to H. M. Butler, Kirkstall Forge, near Leeds, England. Making axles for motor-driven road vehicles. No. 1,426,279; Aug. 15.

Davis Sewing Machine Company, The. (See Power, Joseph S., assignor.)

Davison, Frank G., Boston, Mass. Attachable plate and making same. No. 1,425,840; Aug. 15.

Davison, Frank G., Cambridge, Mass. Attachable plate and making the same. No. 1,425,841; Aug. 15.

Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Pressure regulator. No. 1,425,634; Aug. 15.

Dayton Engineering Laboratories Company, The. (See Hunt, John H., assignor.)

De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)

De Laval Separator Company, The. (See Leitch, Meredith, assignor.)

Delubac, Auguste, Vals-les-Bains, France. Substitute for fabrics, leather, furs, sponges, etc., from cocoons, and making same. No. 1,425,948; Aug. 15.

Demarest, William G., Metuchen, N. J. Wall construction. No. 1,426,048; Aug. 15.

Dennes, Oscar L., Ardmore, Okla. Vehicle signal. No. 1,425,842; Aug. 15.

Dental Manikin Head Co. (See Mallon, Vincent, assignor.)

Denyes, Harry M., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Steering mechanism for automobiles. No. 1,425,753; Aug. 15.

Denyes, Harry M., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Steering mechanism for motor vehicles. No. 1,425,754; Aug. 15.

Det Norske Aktieselskab For Elektrokemisk Industri. (See Sem, Mathias O., assignor.)

Detroit Tire Carrier Co. (See Wasserfallen, Charles F., assignor.)

Deutsch, Edward I., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Polyphase controlling device. No. 1,425,755; Aug. 15.

Deutsche Evaporator - Aktien - Geselschaft. (See Gelpke, Victor, assignor.)

De Vol, Bart E., and J. R. Moncrief, assignors to Universal Manufacturing Company, Santa Ana, Calif. Automobile towing bar. No. 1,426,155; Aug. 15.

Diamond State Fibre Company. (See McIntosh, James, assignor.)

Dick, A. B., Company. (See Hill, Edward F., assignor.)

Dickey, Alexander, Honeyville, Utah. Rifle sight. No. 1,425,756; Aug. 18.

Dilworth, Porter & Co. (See Morrison, Andrew, assignor.)

Dinsen, Thomas, and J. J. Kricker, New York, N. Y. Display stand. No. 1,426,156; Aug. 15.

Dinwiddie, William, Metuchen, N. J. Hydrocarbon engine. No. 1,425,049; Aug. 15.

Dior, Réné E., Billancourt, France. Construction of sulphuric-acid chambers. No. 1,426,261; Aug. 15.

Disk, August, Loganville, Wis. Draining device. No. 1,426,262; Aug. 15.

Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Guard for valve handles. No. 1,425,949; Aug. 15.

Dixon, H. L., Company. (See Milner, E. E., and Lytle, assignors.)

Dobrick, August C., assignor to Imperial Brass Manufacturing Company, Chicago, Ill. Priming cup. No. 1,425,512; Aug. 15.

Dod, Gerald, Southport, England. Doll head or bearing for drying cylinders. No. 1,425,635; Aug. 15.

Dodds, Ethan L., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Wheel structure. No. 1,426,157; Aug. 15.

Dodds, Ethan L., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Wheel structure. No. 1,426,158; Aug. 15.

Doherty, Henry L., New York, N. Y. Producing combustible gas and for carbonizing coal. No. 1,426,159; Aug. 15.

Doherty Research Company. (See McDonell, G. B., and Peck, assignors.)

Donnellan, Frank B., San Francisco, Calif. Cooking retort. No. 1,426,050; Aug. 15.

Donovan, John J., New York, N. Y., assignor of one-half to F. C. List, Honesdale, Pa. Advertising novelty. No. 1,425,513; Aug. 15.

Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y. Reflector. No. 1,426,280; Aug. 15.

Dox, Frank, Pittsburgh, Pa. Segment-trimming instrument. No. 1,426,263; Aug. 15;

Drake, A. W., Manufacturing Company. (See Ravert, William L., assignor.)

Drake, Francis E., Davenport, Iowa. Hoist. No. 1,426,264; Aug. 15.

Driver, Wilbur B., East Orange, N. J., assignor to New York Bath Manufacturing Co. Infant's dressing stand. No. 1,426,160; Aug. 15.

Dry Hand Mop Company. (See Keuner, Duncan; assignor.)

Dubeault, Camille, Chico, Calif. Direction signal for automobiles. No. 1,426,281; Aug. 15.

Dubee, Adelard J., Glens Falls, N. Y. Safety lock for automobile footboards. No. 1,426,282; Aug. 15.

Dubief, Philibert A. M., Courbevoie, France. Apparatus for the reproduction of drawings by artificial light. No. 1,425,636; Aug. 15.

Du Bois, David I. (See Headley, B. T., and Du Bois.)

Dumanois, Emile P., Levallois-Perret, France. Starting apparatus for internal-combustion engines. No. 1,425,950; Aug. 15.

Dunn, Harry. (See Flick, H., Voelker, and Dunn.)

Dupuis, Louis. (See Glennon, J. R., and Dupuis.)

Durham Duplex Razor Company. (See Sheehan, Thomas C., assignor.)

Dwelly, Edwin S., East Orange, N. J., assignor to American Piano Company, New York, N. Y. Music-roll seal. No. 1,426,161; Aug. 15.

Dwyer, William O., Pittsfield, Mass., assignor to General Electric Company. Casing for electrical apparatus. No. 1,425,843; Aug. 15.

Echols, David K., St. Louis, Mo. Comb. No. 1,425,757; Aug. 15.

Eckhard, John, Buffalo, N. Y. Shock absorber for vehicles. No. 1,426,051; Aug. 15.

Eckhard, John, Buffalo, N. Y. Drill press. No. 1, 426,052; Aug. 15.

Eckland, John, et al. (See Brown, Charles H., assignor.)

Eden, Harold W., Chicago, Ill. Wringer support. No. 1,425,514; Aug. 15.

Eggleston, Will J., assignor of one-half to G. T. Wanick, Everett, Wash. Trolling spoon. No. 1,425,951; Aug. 15.

Eisele, Charles W., Flint, Mich. Lamp dimmer. No. 1,426,162; Aug. 15.

Electric Auto-Lite Corporation. (See Richter, Walter E., assignor.)

Electric Auto-Lite Corporation. (See Saxon, Herman R., assignor.)

Electric Milker Corporation. (See Gessler, Frederick A., assignor.)

Electro Metallurgical Company. (See Becket, Frederick M., assignor.)

Elenchuk, Peter, Boston, Mass. Tool handle. No. 1,426,265; Aug. 15.

Ellis, Claude, Springville, N. Y. Window screen and sash locker. No. 1,425,515; Aug. 15.

Emerson-Brantingham Company. (See Clay, Harry C., assignor.)

Emrick, Frank C., Kalamazoo, Mich. Insulating material and manufacturing the same. No. 1,426,163; Aug. 15.

Endicott, Thomas P., Atlantic City, N. J. Dry cleaning and sterilizing process. No. 1,426,053; Aug. 15.

Engberg, Laurent, Barcelona, Spain. Dental clasp. No. 1,425,844; Aug. 15.

Erickson, Edward, Beverely, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,425,516; Aug. 15.

Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Discharge electrode for precipitating systems. No. 1,425,637; Aug. 15.

Esselen, Gustavus J., jr., Swampscott, and H. S. Mork, Brookline, assignors to Arthur D. Little, Incorporated, Cambridge, Mass. Cellulose derivative and preparing same. No. 1,425,580; Aug. 15.

Esselen, Gustavus J., jr., Swampscott, and H. S. Mork, South Boston, assignors to Arthur D. Little, Incorporated, Cambridge, Mass. Preparing cellulose butyrate. No. 1,425,581; Aug. 15.

Estabrooke, William L., Yonkers, and D. D. Jackson, assignors, by mesne assignments, to J. T. Pratt, New York, D. D. Jackson, Brooklyn, N. Y., and J. D. Sears, Bloomfield, N. J., trustees. Desulphurizing iron ores, iron and steel, and coke used in the metallurgy of iron. No. 1,426,054; Aug. 15.

Evans, Edward S., Detroit, Mich. Floor loading buck. No. 1,426,164; Aug. 15.

Evans, Isaac H., Ava, Mo. Dairy barn. No. 1,426,266; Aug. 15.

Evan's, John, Sons. (See Evans, William, assignor.)

Evans, William, assignor to J. Evans' Sons, Philadelphia, Pa. Machine for making spring eyes. No. 1,426,165; Aug. 15.

Ewart, John S. (See Clifton, W. E., and Ewart.)

Ewert, Walter S., Los Angeles, Calif. Artificial bait. No. 1,426,283; Aug. 15.

Fairbairn, John M. R. (See Orrock, John W., assignor.)

Farnsworth, Clare E. (See Morrow, Alfred J., assignor.)

Fast, Paul, Fresno, Calif. Device for use of the blind in writing. No. 1,426,055; Aug. 15.

Feder, Tobias M., Brooklyn, N. Y. Electric heater. No. 1,426,166; Aug. 15.

Federal Electric Company. (See Powell, Raymond E., assignor.)

Feigler, Sandor, Pittsburgh, Pa. Metallic table. No. 1,425,582; Aug. 15.

Felski, Walter. (See Brzyski, J., and Felski.)

Feltes, Louis J. (See Ryan, D. J., and Feltes.)

Ferguson, George, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe and making it. No. 1,425,518; Aug. 15.

Ferguson, George, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe sole. No. 1,425,517; Aug. 15.

Fiberfold Corporation et al., The. (See Brooks, Benjamin T., assignor.)

Fidler, Harry, Philadelphia, Pa. Infant's bed clothing. No. 1,425,952; Aug. 15.

Figarsky, Louis, Brooklyn, N. Y., Soft-collar holder. No. 1,425,953; Aug. 15.

Finger, Robert M., and D. W. Liles, Badin, N. C. Advertising device. No. 1,425,758; Aug. 15.

Fischer, Philip A., New York, N. Y. Canopied automobile door. No. 1,425,954; Aug. 15.

Fisher Body Corporation. (See Rissmann, Paul, assignor.)

Fisher, Lawrence W., assignor of one-half to A. Bird, Wilsonville, Nebr. Combined screen and storm sash. No. 1,426,267; Aug. 15.

Fitz-Empire Double Pivot Last Company. (See Whipple, Leland B., assignor.)

Fitzgerald Manufacturing Company, The. (See Fitzgerald, Maurice F., assignor.)

Fitzgerald, Maurice F., Winsted, assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Electric toaster. No. 1,426,284; Aug. 15.

Flannery Bolt Company. (See Dodds, Ethan L., assignor.)

Flick, Henry, Jackson, Mich. Revolving cutter head for spoke-turning lathes. No. 1,426,167; Aug. 15.

Flick, Henry, J. P. Voelker, and H. Dunn, Jackson, Mich. Facing machine for facing the centers of wood-spoke wheels. No. 1,426,168; Aug. 15.

Flood, John G., Quebec, Quebec, Canada. Dirigible-headlight mechanism. No. 1,425,750; Aug. 15.

Floro, Martiniano, Champaign, Ill. Voting machine. No. 1,425,955; Aug. 15.

Flugel, Clifford, Cincinnati, Ohio. Tire-chain-attachment device. No. 1,426,268; Aug. 15.

Force, Orlando, Akron, Ohio. Divider. No. 1,426,269; Aug. 15.

Ford, Hannibal C., New York, N. Y., assignor to Ford Instrument Company, Inc. Automatic stoker. No. 1,425,519; Aug. 15.

Ford Instrument Company. (See Ford, Hannibal C., assignor.)

Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Screw-socket connection for radiators. No. 1,425,638; Aug. 15.

Forzly, Nacle F., New York, N. Y. Buttonhook. No. 1,425,760; Aug. 15.

Foster, Robert B., Wellsville, Ohio. Flange wrench. No. 1,425,845; Aug. 15.

Fowler, Friend, Moose Jaw, Saskatchewan, Canada. Grain cleaner. No. 1,426,270; Aug. 15.

Frank, George W., jr., and F. Carlock, Jersey City, N. J., assignors to themselves and G. W. Frank, sr. Burglar alarm. No. 1,426,169; Aug. 15.

Frank, George W., sr. (See Frank, G. W., and Carlock, assignors.)

Franks, George M., St. Paul, Minn. Collapsible display stand. No. 1,425,846; Aug. 15.

Frantz Manufacturing Co. (See Frantz, Peter, assignor.)

Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Garage-door construction. No. 1,426,170; Aug. 15.

Fraser, Arthur C., trustee. (See Bell, Harvey W., assignor.)

Frazier, George E., assignor of one-half to C. C. Cook, Muncie, Ind. Fruit-jar-capping machine. No. 1,426,056; Aug. 15.

Frazier, William H., Chicago, and W. J. O'Neill, Downers Grove, Ill. Floor covering. No. 1,425,847; Aug. 15.

Frederics, Ernest O., New York, N. Y. Hair-waving means. No. 1,425,956; Aug. 15.

Fredrich, Joseph H., and C. Bock, San Francisco, Calif. Toy vehicle. No. 1,426,171; Aug. 15.

Freedline, David, Brooklyn, N. Y. Hat stretcher and shaper. No. 1,426,285; Aug. 15.

Freeze, John A., Sayreville, N. J. Method of and apparatus for making and sewing star forms on fabrics. No. 1,426,172; Aug. 15.

Freid, Charles W., Good Thunder, Minn. Nonrefillable bottle. No. 1,425,957; Aug. 15.

French, Harry F. (See Benner, R. C., and French.)

Fretz, Samuel S., sr., Philadelphia, Pa. Self-opening umbrella. No. 1,425,761; Aug. 15.

Frick & Lindsay Company. (See Hay, Roland L., assignor.)

Fried. Krupp Aktiengesellschaft Germaniawerft. (See Techel, Hans, assignor.)

Fritz, William G., Clear Lake, Minn. Pneumatic vehicle-body support and air control. No. 1,426,057; Aug. 15.

Fritz, William G., Clear Lake, Minn. Shock absorber. No. 1,426,058; Aug. 15.

Froehlich, Morris, Chicago, Ill. Oven. No. 1,426,059; Aug. 15.

Fryermuth, William M., et al. (See Rothenberger, Daniel M., assignor.)

Fuegel, Gottlob, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Adjustable bearing. No. 1,426,173; Aug. 15.

Fuller, Edward H., et al. (See Prigan, Gustave H., assignor.)

Fuller, F. A. (See McKirahan, Samuel, assignor.)

Gabrielson, Carl, assignor, by mesne assignments, to Meldrum-Gabrielson Corporation, Syracuse, N. Y. Adjustable gearing for milling machines. No. 1,425,848; Aug. 15.

Gallon Iron Works & Mfg. Co. (See Arndt, Franklin E., assignor.)

Gallery, Alfred M., Toronto, Ontario, Canada. Street indicator for street-railway systems. No. 1,425,583; Aug. 15.

Gambell, Karl V., Chicago, Ill. Polychrome candle and making same. No. 1,426,174; Aug. 15.

Gambrell, Robert S., Honea Path, S. C. Picker-head holder. No. 1,426,175; Aug. 15.

Garcelon, George H., Swissvale, and J. L. Chantemerle, Turtle Creek, Pa., assignors to Westinghouse Electric and Manufacturing Company. Centrifugally-actuated short-circuiting device. No. 1,425,639; Aug. 15.

Gardner, James A., Dixon, Miss. Trace hook. No. 1,426,176; Aug. 15.

Garner, Herman H., Pomona, Calif. Wet-filter air cleaner. No. 1,426,177; Aug. 15.

Garrett, Carlton M. (See Garrett, Myers A., assignor.)

Garrett, Myers A., assignor to C. M. Garrett, Chicago, Ill. Air moistener and dust arrester. No. 1,426,286; Aug. 15.

Gattle, Alfred W., London, England. Spring suspension. No. 1,426,178; Aug. 15.

Gauthier, Edmond J. L., Paris, France. Spring suspension for vehicles. No. 1,425,849; Aug. 15.

Gazda, Adolph A, Wilkinsburg, Pa. assignor to Westinghouse Electric and Manufacturing Company Motor-control system No. 1,425,640; Aug. 15

Gelb, Nathan, Newark, N. J. Sanitary mouthpiece. No. 1,425,958; Aug. 15.

Geldhof, Peter E. (See Spencer, J. B., and Geldhof.)

Gelpke, Victor, Luzern, Switzerland, assignor to Deutsche Evaporator-Aktien-Gesellschaft, Berlin, Wilmersdorf, Germany. Kiln with heating chambers and cooling chambers. No. 1,426,287; Aug. 15.

General Electric Company. (See Dwyer, William O., assignor.)

General Electric Company. (See Gillan, John F., assignor.)

General Electric Company. (See Giroux, Carl H., assignor.)

General Electric Company. (See Knoderer, Homer G., assignor.)

General Electric Company. (See Merrill, Wilbur L., assignor.)

General Electric Company. (See West, John W., assignor.)

General Motors Corporation. (See Denyes, Harry M., assignor.)

General Motors Corporation. (See Hannum, George H., assignor.)

General Petroleum Corporation. (See Prutzman, Paul W., assignor.)

Gerrard, Alec J., and P. Wright, Chicago, Ill. Wire tensioning and twisting machine. No. 1,425,850; Aug. 15.

Gessler, Frederick A., La Grange, assignor to Electric Milker Corporation, Chicago, Ill. Teat cup for milking machines. No. 1,425,584; Aug. 15.

Gessler, Frederick A., La Grange, assignor to Electric Milker Corporation, Chicago, Ill. Milk and air line connection for milking machines. No. 1,425,585; Aug. 15.

Gewerkschaft Hausbach II. (See Weber, Wilhelm, assignor.)

Giesler, Henry, Brussels, Belgium, assignor to Heberlein & Co., A. G., Wattwil, Switzerland. Producing patterned textile fabrics and the resulting product. No. 1,425,520; Aug. 15.

Gilbert, Charles F., St. Louis, Mo. Signaling device. No. 1,425,586; Aug. 15.

Gillan, John F., Schenectady, N. Y., assignor to General Electric Company. Metal-treating apparatus. No. 1,425,851; Aug. 15.

Gillinder, Edgar A., Philadelphia, Pa. Interchangeable giche holder for an electric light. No. 1,425,852; Aug. 15.

Ginzel, Elmer W., Redlands, Calif. Sectional demountable rim. No. 1,426,288; Aug. 15.

Girouz, Carl H., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. No. 1,425,853; Aug. 15.

Girten, James F., assignor of one-half to H. Snow, Chicago, Ill. Elevator-door lock. No. 1,425,762; Aug. 15.

Glafcke, Charles L., Michigan City, Ind. Cobbling outfit. No. 1,426,289; Aug. 15.

Glass, George, Milwaukee, Wis. Conveyer. No. 1,426,179; Aug. 15.

Glennon, Joseph R., and L. Dupuis, New Bedford, Mass.; said Dupuis assignor to said Glennon. Doffer guard and oil-well cover for spindle supports for spinning and like machines. No. 1,425,521; Aug. 15.

Gonzalez, Miguel, New York, N. Y. Ice box. No. 1,425,854; Aug. 15.

Goodwin, Willis A., Kirksville, Mo. Sand-cleaning machine. No. 1,425,763; Aug. 15.

Gotfredsen, Carl, Los Angeles, Calif. Can opener and dispenser. No. 1,426,180; Aug. 15.

Gottschau, Christian M., Denver, Colo., assignor, by mesne assignments, to Automatic Non-Rewinding Reel Company. Apparatus for unwinding motion-picture films. No. 1,426,290; Aug. 15.

Gough, Frank E., Oklahoma, Okla. Piston and packing for the same. No. 1,425,641; Aug. 15.

Graemiger, Benjamin, Zurich, Switzerland. Cooling device in multistage centrifugal compressors. No. 1,425,855; Aug. 15.

Gramlich, Samuel V., Paradox, Colo. Illuminating system for vehicles. No. 1,426,060; Aug. 15.

Gregory, Frank E., Sacramento, assignor of one-fourth to G. A. McKinley, Vacaville, Calif. Automobile lamp. No. 1,426,181; Aug. 15.

Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Fitting for air lines and the like. No. 1,425,642; Aug. 15.

Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Air valve. No. 1,425,643; Aug. 15.

Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Valve. No. 1,425,644; Aug. 15.

Gross and Steiner. (See Gross, Carl W., assignor.)

Gross, Carl W., assignor to Gross and Steiner, Bridgeport, Conn. Can opener. No. 1,426,182; Aug. 15.

Groth, Charles H., Rochester, Pa. Chamfering plane. No. 1,425,764; Aug. 15.

Grzebinski, Stanley, Ituna, Saskatchewan, Canada. Fountain paintbrush. No. 1,425,959; Aug. 15.

Guest Neckwear Company. (See Guest, Theodore M., assignor.)

Guest, Theodore M., assignor to Guest Neckwear Company, Rochester, N. Y. Necktie holder. No. 1,426,183; Aug. 15.

H. S. B. W.-Cochrane Corporation. (See Yoder, Joseph D., assignor.)

Haesloop, George C. (See Rundell, Raymond R., assignor.)

Haglund, Gustaf, Christiania, Norway. Arrangement in electrolytic tanks with diaphragm cells. No. 1,426,071; Aug. 15.

Hall, Borchert Dress Form Company. (See McCarthy, James, assignor.)

Hall, James G., Burlingame, Calif. Book. No. 1,426,291; Aug. 15.

Haller, Joseph F., assignor to McKenna Brass & Manufacturing Company, Inc., Pittsburgh, Pa. Air-vent cleaner for filling machines. No. 1,425,960; Aug. 15.

Hamel Shoe Machinery Company. (See Pettengill, George M., assignor.)

Hamel Shoe Machinery Company. (See Reardon, Fred A., assignor.)

Hamel Shoe Machinery Company. (See Valois, Félix E., assignor.)

Hammar, Fritiof C., Gottenborg, Sweden. Protecting device for the edge of butchers' knives. No. 1,426,184; Aug. 15.

Hammond, Harry D., J. W. Achelpohl, and A. Leslie, Argonia, Kans. Collapsible crate. No. 1,425,587; Aug. 15.

Hammond, John H., jr., Gloucester, Mass. System for sound transmission. No. 1,425,522; Aug. 15.

Hammond, John H., jr., Gloucester, Mass. Transmission system for radiant energy. No. 1,425,523; Aug. 15.

Hanlon, John H., Somerville, Mass. Air-brake system. No. 1,426,061; Aug. 15.

Hannum, George H., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Steering mechanism for motor vehicles. No. 1,425,765; Aug. 15.

Hanson, Hans E., Innisfree, Alberta, Canada. Transplanting device. No. 1,425,588; Aug. 15.

Hanson, Oscar W., Salina, Kans. Piston. No. 1,426,072; Aug. 15.

Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Purifying and dehydrating transformer oil. No. 1,425,645; Aug. 15.

Harding, Paul O., Carlton, Oreg. Surveying instrument. No. 1,425,589; Aug. 15.

Hardy, James H., Crawford, Miss. Railway crossing. No. 1,426,292; Aug. 15.
Harpel, Jacob J., Elmira, N. Y. Washing machine for washing fabrics. No. 1,426,185; Aug. 15.
Harrington, Thomas E., Silver City, N. Mex. Automatic gate. No. 1,426,062; Aug. 15.
Harris, Harry. (See Maloney, Henry P., assignor.)
Harris, John, Lakewood, Ohio, assignor to Carbo-Oxygen Company, Pittsburgh, Pa. Cutting metals with gaseous fuel. No. 1,425,856; Aug. 15.
Harris, Noah, Indianapolis, Ind. Heel plate. No. 1,426,186; Aug. 15.
Harris, Vernon J., Adrian, Mich. Valve-tappet-silencing mechanism. No. 1,425,766; Aug. 15.
Harrison, Amos, assignor to Jas. P. Marsh & Company, Chicago, Ill. Water-sealed vacuum and pressure trap. No. 1,425,857; Aug. 15.
Harrison, Thomas L., Philadelphia, Pa. Collapsible-tube-closing machine. No. 1,425,961; Aug. 15.
Harrison, Wilfrid M., Chestnut, England. Method of and means for vaporizing fuel for internal-combustion engines. No. 1,426,187; Aug. 15.
Harrison, William H., Brooklyn, N. Y. Cage perch. No. 1,425,524; Aug. 15.
Hart, Harry S., assignor to National Dump Car Co., Chicago, Ill. Dump car. No. 1,425,767; Aug. 15.
Hartman, Milton, Detroit, Mich. Combined addressing and listing device. No. 1,425,768; Aug. 15.
Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,425,646; Aug. 15.
Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,425,647; Aug. 15.
Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,425,649; Aug. 15.
Haskins, Frances M., New York, N. Y. Baby exerciser. No. 1,426,063; Aug. 15.
Hatch, Arthur G., Duluth, Minn. Apparatus for making concrete bricks. No. 1,425,590; Aug. 15.
Haughton, James E., and G. Berry, Manchester, England. Shuttle for looms for weaving. No. 1,426,188; Aug. 15.
Hay, Roland L., Lancaster, Ohio, assignor to Frick & Lindsay Company, Pittsburgh, Pa. Pump valve. No. 1,426,073; Aug. 15.
Hayes, George H., St. Paul, Minn. Spring shackle. No. 1,426,064; Aug. 15.
Headley, Benjamin T., and D. I. Du Bois, assignors to Whitall-Tatum Company, Millville, N. J. Delivery mechanism. No. 1,425,962; Aug. 15.
Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation. Insulating flat-wire conductors. No. 1,426,065; Aug. 15.
Heberlein & Co., A. G. (See Giesler, Henry, assignor.)
Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible-fulcrum arrangement. No. 1,425,649; Aug. 15.
Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible-fulcrum mechanism. No. 1,425,650; Aug. 15.
Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible-fulcrum means. No. 1,425,651; Aug. 15.
Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Fulcrum mechanism. No. 1,426,074; Aug. 15.
Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible-fulcrum structure. No. 1,426,075; Aug. 15.
Heller, Jack, et al. (See Zeitlin, Alexandre, assignor.)
Heller, Jesse B., Wilkinsburg, Pa., assignor to R. W. Benson, New York, N. Y., L. Widmeier, Cleveland, Ohio, and R. J. Bryon. Electrically-actuated permutation mechanism and circuits controlled thereby. No. 1,425,963; Aug. 15.
Heller, Samuel, et al. (See Zeitlin, Alexandre, assignor.)
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of speed control for induction machines. No. 1,425,652; Aug. 15.
Herrmann, Henri, Paris, France. Manufacturing electrical collectors, commutators, controllers, or interrupters or equivalent devices. No. 1,426,293; Aug. 15.
Herzberg, Wilhelm, Berlin-Wilmersdorf, and O. Scharfenberg, Berlin-Schoneberg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Ortho-oxyazo dyes. No. 1,426,189; Aug. 15.
Herzberg, Wilhelm, Berlin-Wilmersdorf, and O. Scharfenberg, Berlin-Schoneberg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Ortho-oxyazo dyes for wool. No. 1,426,190; Aug. 15.
Heuser, Herman, Evanston, Ill. Dealcoholizing beverages. No. 1,426,066; Aug. 15.
Hi-Lo-Jack Company. (See Lanier, Amos F., assignor.)
Hickman, Millard R., San Francisco, Calif. Air separator for feed water. No. 1,426,076; Aug. 15.
Hill, Edward F., assignor to A. B. Dick Company, Chicago, Ill. Device for stenciling. No. 1,426,067; Aug. 15.
Hilsee, Charles M., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,426,077; Aug. 15.
Hinds, Sherwood, assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Driving mechanism for counters. No. 1,425,964; Aug. 15.
Hirst, John A., and P. S. Brook, Chester, England. Switch. No. 1,425,769; Aug. 15.
Hitch, Elias A., Guymon, Okla. Tire protector. No. 1,426,191; Aug. 15.
Hitzert, Jacob, Saginaw, Mich. Rail attachment. No. 1,426,192; Aug. 15.
Hnilo, Frank, and J. Schultz, Cicero, Ill. Bath-cabinet-supporting frame. No. 1,425,772; Aug. 15.
Hocks, Johann, Wehetitz, near Karlsbad, Czecho-Slovakia, assignor to F. Meyer, Basel, Switzerland. Motor truck. No. 1,425,965; Aug. 15.
Hoehnen, John C., et al. (See Branstrator, Clement G., assignor.)
Hoffay, Joseph, New York, N. Y. Phonograph. No. 1,425,966; Aug. 15.
Hoffman, Andrew. (See Bock, Charles, assignor.)
Hoffman, Edward L., Fort Slocum, N. Y. Fuselage parachute. No. 1,425,770; Aug. 15.
Hoffman, Samuel O., San Francisco, Calif. Lamp. No. 1,425,967; Aug. 15.
Holden, Crofton C., assignor to Royal Comb Company, Leominster, Mass. Top for hand bags, etc. No. 1,426,078; Aug. 15.
Hollander, John S., De Quincy, La. Fencepost. No. 1,425,653 Aug. 15.
Holley, William V., New York, N. Y., assignor to New York Bath Manufacturing Co. Service box or tray. No. 1,426,079; Aug. 15.
Hollick, Walter J., Manchester, England. Coupling. No. 1,425,525; Aug. 15.
Holmes, Andrew J., assignor to Big-Four Electric Company, Tacoma, Wash. Induction water heater. No. 1,425,968; Aug. 15.
Holmgren, John E., San Francisco, Calif. Switch for automobile direction indicators. No. 1,426,193; Aug. 15.
Holophane Glass Company. (See Dorey, William A., assignor.)
Holt, Edward E., Chicago, Ill. Cream whip and the like. No. 1,426,080; Aug. 15.
Homans, Thomas S., assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. No. 1,426,194; Aug. 15.
Hooker Electrochemical Company. (See Williams, Clyde E., assignor.)
Hoover, Charles O., assignor to The Hoover Company, Chicago, Ill. Separating aluminum chloride from heavy hydrocarbon. No. 1,426,081; Aug. 15.
Hoover Company, The. (See Hoover, Charles O., assignor.)
Howard, Emmett M., Baltimore, Md., assignor, by mesne assignments, to F. F. Slocomb, Philadelphia, Pa. Phonographic-disk-record ejector. No. 1,425,771; Aug. 15.
Howe, Edwin A., Bancroft, Iowa. Automobile jack. No. 1,426,068; Aug. 15.
Huber, William E., Chicago, Ill. Window lock. No. 1,426,294; Aug. 15.
Huebner-Bleistein Patents Co. (See Huebner, William C., assignor.)
Huebner, William C., assignor to Huebner-Bleistein Patents Co., Buffalo, N. Y. Photographic-printing apparatus. No. 1,425,526; Aug. 15.
Hughes, Joseph J., Memphis, Tenn. Lantern construction. No. 1,426,295; Aug. 15.
Hunt, John H., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Temperature-compensated regulator. No. 1,425,858; Aug. 15.
Hurst, Hugh F., Richmond, Va., assignor to Hurst Label Printing Machine Company, Incorporated. Printing and stamping machine. No. 1,426,069; Aug. 15.
Hurst Label Printing Machine Company. (See Hurst, Hugh F., assignor.)
Huth, John A., assignor to S. M. Lawson, Cincinnati, Ohio. Automobile hood clamp. No. 1,425,773; Aug. 15.
Huttinger, Charles A., Lakewood, assignor, by mesne assignments, to The Acme Artificial Silk Company, Cleveland, Ohio. Producing lustrous threads, etc. No. 1,425,654; Aug. 15.
Huttinger, Charles A., Lakewood, assignor, by mesne assignments, to The Acme Artificial Silk Company, Cleveland, Ohio. Traverse mechanism for winding machines. No. 1,425,655; Aug. 15.
Ilex Optical Company. (See Klein, Rudolph, assignor.)
Illinois Tool Works. (See Olson, Carl G., assignor.)
Imperial Brass Manufacturing Company. (See Dobrick, August C., assignor.)
Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)
International Motor Company. (See Josephs, L. C., jr., and Wirrer, assignors.)
Intertype Corporation. (See Homans, Thomas S., assignor.)
Intertype Corporation. (See Sperry Samuel E., assignor.)
Inwood, Mary C., administratrix. (See Inwood, Richard G.)
Inwood, Richard G., deceased, by M. C. Inwood, administratrix, South Bend, Ind., assignor to Wirebounds Patents Company, Kittery, Me. Box-making machine. No. 1,425,774; Aug. 15.
Ivarson, Victor, Cleghorn, Iowa. Tractor. No. 1,426,070; Aug. 15.
Iwami, William J., New York, N. Y. Typewriter attachment. No. 1,426,195; Aug. 15.
Jackson, Daniel D., et al., trustees. (See Estabrooke, W. L., and Jackson, assignors.)
Jackson, Daniel D. (See Estabrooke, W. L., and Jackson.)

Jackson, Glenn W. (See Swan, J. B., Rogers, and Jackson.)
Jackson, Harry R., assignor of one-half to H. A. May, Chicago, Ill. Automatic gasoline-shut-off valve. No. 1,425,656; Aug. 15.
Jacobs, Isidor M., Kansas City, and W. Cramer, assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Teeter totter. No. 1,426,082; Aug. 15.
Jakovieff, Alexis, assignor to H. M. Shirek, San Francisco, Calif. Automobile cradle. No. 1,425,859; Aug. 15.
James, Henry D., Edgewood, Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,425,657; Aug. 15.
Jamison, Frank L., Pittsburgh, Pa. Ingot-casting device. No. 1,425,658; Aug. 15.
Jaques, Fernando O., jr., Providence, assignor of one-half to H. C. Peckham, Cranston, R. I. Castellated nut. No. 1,425,591; Aug. 15.
Jennings, William A., Raytown, Mo. Cylinder-grinding attachment for lathes. No. 1,425,592; Aug. 15.
Jeska, William H. F., St. Paul, Minn. Window catch. No. 1,425,593; Aug. 15.
Johns, Charles, Chicago, Ill. Producing finished sections from iron and steel scrap. No. 1,425,971; Aug. 15.
Johnson, Allen D. W., Anoka, Minn. Silo roof. No. 1,425,860; Aug. 15.
Johnson, Arthur J. (See Tingwall, L. G., and Johnson.)
Johnson, Arthur W., Milwaukee, assignor to Bradley Knitting Company, Delavan, Wis. Means for shaping and drying fabric articles. No. 1,425,969; Aug. 15.
Johnson, Brenda B. A., London, England. Production and projection of photographic records. No. 1,425,775; Aug. 15.
Johnson, John D., assignor to Johnson Power Transmission Company, Seattle, Wash. Differential mechanism. No. 1,425,970; Aug. 15.
Johnson Power Transmission Company. (See Johnson, John D., assignor.)
Jones, Edward T., administrator. (See Stryker, Walter W.)
Jones, Omar G., Philadelphia, Pa. Vehicle fender. No. 1,425,659; Aug. 15.
Jones, Walter L., Earlville, Ill. Conveying apparatus. No. 1,425,861; Aug. 15.
Jones, William A., assignor to Sonje Limited, Manchester, England. Sparking plug. No. 1,426,333; Aug. 15.
Jordahl, Anders, assignor of one-half to Midwest Steel and Supply Company, Inc., New York, N. Y. Filter. No. 1,426,196; Aug. 15.
Josephs, Lyman C., jr., Allentown, Pa., and G. Wirrer, Plainfield, N. J., assignors to International Motor Company, New York, N. Y. Furnace for the heat treatment of metals. No. 1,425,660; Aug. 15.
Julin, Victor T., Djursholms-Danderyd, Sweden. Lathe dog. No. 1,425,862; Aug. 15.
Kabbel, William, Milwaukee, Wis. Automatic rewind mechanism for motors. No. 1,425,863; Aug. 15.
Kampfe, Otto, Bellmore, assignor of one-half to H. C. Walker, New York, N. Y. Edge-tool sharpener. No. 1,426,083; Aug. 15.
Kannenberg, Bruno, Berlin-Grunewald, Germany. Shed for airships. No. 1,426,197; Aug. 15.
Karlberg, Arvid E. (See Wampach, F. E., and Karlberg.)
Kassander, Leopold, assignor to Nathan Manufacturing Company, New York, N. Y. Lubricator. No. 1,425,972; Aug. 15.
Kato, Teisuke, Hyogo Ken, Japan. Manufacturing zinc dust. No. 1,425,661; Aug. 15.
Kaucher, Richard W., Reading, and J. W. Barr, Sinking Spring, Pa. Fire door. No. 1,425,973; Aug. 15.
Kaufman, Adam W., Milwaukee, Wis. Timer. No. 1,425,864; Aug. 15.
Kearney, Nellie, Holyoke, Mass. Doll. No. 1,425,974; Aug. 15.
Keeran, Charles R., Chicago, Ill. Jar closure. No. 1,425,594; Aug. 15.
Kehl, George A., St. Paul, Minn. Sand toy. No. 1,425,865; Aug. 15.
Keith, Frederick R., Randolph, Mass. Rubber heel and making the same. No. 1,426,198; Aug. 15.
Keith, Harold L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,425,662; Aug. 15.
Kellogg Switchboard & Supply Company. (See Webster, Harry G., assignor.)
Kelly, William E., Cleveland, Ohio. Toilet instrument. No. 1,425,776; Aug. 15.
Kelly, William E., Cleveland, Ohio. Propeller attachment for vehicles. No. 1,425,777; Aug. 15.
Kennedy, Walter J., Cleveland, Ohio. Valve for gas stoves. No. 1,425,975; Aug. 15.
Kenner, Duncan, assignor to Dry Hand Mop Company, New Orleans, La. Mop. No. 1,426,084; Aug. 15.
Kenny, Philip J., Chicago, Ill. Traction attachment for wheels. No. 1,426,199; Aug. 15.
Kent, Budd, Woodburn, Oreg. Clod crusher. No. 1,425,976; Aug. 15.
Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Suspender buckle. No. 1,425,778; Aug. 15.
Kerr, James H. S., Toronto, Ontario, Canada. Rubber mat. No. 1,426,296; Aug. 15.
Kerr, John L. (See Barton, William L., assignor.)
Kiesel, Walter C., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone hand set. No. 1,425,977; Aug. 15.
Killin, George W., West Huntington, W. Va. Shears. No. 1,425,779; Aug. 15.
Kincheloe, Herbert E., Maplewood, Mo. Chair desk. No. 1,426,297; Aug. 15.
King, Ivan, Los Angeles, Calif. Stove. No. 1,425,780; Aug. 15.
Kingsbury, Albert, Pittsburgh, Pa. Bearing for horizontal or inclined shafts. No. 1,425,978; Aug. 15.
Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,425,979; Aug. 15.
Kinnie, David A. (See Cox, D. R., and Kinnie.)
Kirsch, Raymond R., St. Louis, Mo. Metallic heel. No. 1,425,866; Aug. 15.
Klein, Harry H., New York, N. Y. Hair waver. No. 1,425,527; Aug. 15.
Klein, Rudolph, assignor to Ilex Optical Company, Rochester, N. Y. Photographic shutter. No. 1,425,980; Aug. 15.
Knoderer, Homer G., Englewood, N. J., assignor to General Electric Company. Conduit-coupling device. No. 1,425,781; Aug. 15.
Koepke, Richard A., Milwaukee, Wis. Shoe-toe-softening machine. No. 1,425,981; Aug. 15.
Kohlmeyer, George, C. E. Wing, College Point, and H. Schelhammer, Whitestone Landing, assignors to American Hard Rubber Co., New York, N. Y. Machine for making combs. No. 1,425,595; Aug. 15.
Kohn, Simon N., Cleveland, Ohio. Butter spreader. No. 1,426,085; Aug. 15.
Kokomo Steel and Wire Company. (See Porath, Carl A., assignor.)
Korselt, Johannes, Zittau, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Rendering animal and vegetable fibers active. No. 1,426,298; Aug. 15.
Kovács, Theodor, Berlin, Germany. Fountain pen. No. 1,426,200; Aug. 15.
Kramer, Andrew A., Kansas City, Mo. Convertible vehicle body. No. 1,425,596; Aug. 15.
Kramer, Andrew A. (See Livengood, Winfield S., assignor.)
Krantz, Edward. (See Schrum, W. T., and Krantz.)
Krause, Norman R., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Speed governor for self feeders. No. 1,425,782; Aug. 15.
Kricker, John J. (See Dinsen, T., and Kricker.)
Krug, Ludwig, New York, N. Y. Revolution counter. No. 1,425,982; Aug. 15.
Kubicek, Anton C., Blooming Prairie, Minn. Corn-planter attachment. No. 1,425,867; Aug. 15.
Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Heater Company, Detroit, Mich. Electric soldering iron. No. 1,425,983; Aug. 15.
Kunert, Felix, and E. Acker, Offenbach-on-the-Main, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Multicolor printing. No. 1,426,299; Aug. 15.
Labhard, Ernst, Thalwill, Switzerland. Penholder. No. 1,425,984; Aug. 15.
La Borie, Louis, Rochester, N. Y. Picture-making apparatus. No. 1,425,597; Aug. 15.
Lake Tool Company. (See Stafford, Roy M., assignor.)
Lane Manufacturing Company. (See Wallstrom, George P., assignor.)
Lange, Henry, Quincy, Ill. Gas burner for coal ovens. No. 1,425,985; Aug. 15.
Lange, Jacob, Jackson, Mich. Gate and hinge. No. 1,425,986; Aug. 15.
Lanier, Amos F., Worcester, Mass., assignor, by mesne assignments, to Hi-Lo-Jack Company. Jack. No. 1,426,201; Aug. 15.
Lansing, Richard H., Chicopee Falls, Mass. Fabric-working mechanism. No. 1,425,987; Aug. 15.
Lansing, Richard H., Chicopee Falls, Mass. Conveyer. No. 1,425,988; Aug. 15.
La Point, Fred, Wheeling, W. Va. Table clamp. No. 1,425,868; Aug. 15.
Lard, Allan E., Washington, D. C., assignor to The Metallic Shaft Company, Wilmington, Del. Shaft for golf clubs and the like. No. 1,426,202; Aug. 15.
Larsen, Howard R., Milwaukee, Wis. Toy. No. 1,425,869; Aug. 15.
Larsen, Olaf. (See Valerius, T. L., and Larsen.)
Lauber Handle Manufacturing Co., The. (See Lauber, William, assignor.)
Lauber, William, assignor to The Lauber Handle Manufacturing Co., Milwaukee, Wis. Tool handle. No. 1,425,598; Aug. 15.
Lavarack, Frederick C., Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y. Semaphore blade. No. 1,426,300; Aug. 15.
Lawhead, James W., Wilmington, Ohio. Air pump. No. 1,425,663; Aug. 15.
Lawson, Stanley M. (See Huth, John A., assignor.)
Lecrone, John P., York, Pa. Clutch-pedal-locking device for Ford cars. No. 1,425,989; Aug. 15.
Lee, Elmer J., Bangor, Pa. Timer. No. 1,425,990; Aug. 15.
Leeberg, Edward, Roselle, N. J. Flush tank. No. 1,426,203; Aug. 15.

Leichtfuss, William, New York, N. Y. Window-pane fastener. No. 1,426,204; Aug. 15.
Leitch, John H., assignor to Auto Accessories Mfg. Co., Detroit, Mich. Friction drive for fans. No. 1,425,870; Aug. 15.
Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Bearing for machinery. No. 1,425,664; Aug. 15.
Leoni, Alfonso M., Philadelphia, Pa., assignor, by mesne assignments, to Steinmetz Electric Motor Car Corporation, Baltimore, Md. Fan mounting for motor vehicles. No. 1,426,301; Aug. 15.
Leoni, Alfonso M., Philadelphia, Pa., assignor, by mesne assignments, to Steinmetz Electric Motor Car Corporation, Baltimore, Md. Front-axle construction. No. 1,426,302; Aug. 15.
Lesher, Earl W., Cleveland, Ohio. Shingle. No. 1,425,991; Aug. 15.
Lesher, Earl W., Cleveland, Ohio. Shingle. No. 1,425,992; Aug. 15.
Leslie, Abner. (See Hammond, H. D., Achelpohl, and Leslie.)
Lewis, Abraham. (See Zsarnay, Béla, assignor.)
Liddell, John G., Everett, assignor to Moore Pen Company, Boston, Mass. Mechanical pencil. No. 1,425,871; Aug. 15.
Liles, Dexter W. (See Finger, R. M., and Liles.)
Lilly, Cecil H. (See Cocking, A. T., and Lilly.)
Lincks, George R., et al. (See Brown, Charles H., assignor.)
Lincoln, Paul M., Pittsburgh, Pa. Maximum-demand meter. No. 1,425,665; Aug. 15.
Lind, William, New York, N. Y. Tension-controlling device. No. 1,425,528; Aug. 15.
Lindman, Konrad W., assignor, by mesne assignments, to Nordiska Kullager Aktiebolaget, Stockholm, Sweden. Ball bearing. No. 1,425,872; Aug. 15.
Lineweaver, William C., Fort Sill, assignor of one-half to W. Swift, Lawton, Okla. Copy fastener. No. 1,425,873; Aug. 15.
List, F. C. (See Donovan, John J., assignor.)
Lister, Charles H., North St. Paul, Minn., assignor to Standard Conveyor Company. Gravity conveyer. No. 1,425,599; Aug. 15.
Little, Arthur D., Incorporated. (See Esselen, G. J., jr., and Mork, assignors.)
Livengood, W. S., assignor to A. A. Kramer, Kansas City, Mo. Brake for hoists. No. 1,425,600; Aug. 15.
Lobo, Ernesto. (See Cruces, S., and Lobo.)
Löffler, Reinhold, assignor to Aktiengesellschaft für Anilin Fabrikation, Berlin, Germany. Steam trap. No. 1,426,205; Aug. 15.
Lonzo, Joseph A., Fitchburg, Mass. Machine for cleaning roving bobbins. No. 1,426,303; Aug. 15.
Lowrey, John R., San Pedro, Calif. Hose clamp. No. 1,426,086; Aug. 15.
Luick, William F., Milwaukee, Wis. Shipping-card holder. No. 1,425,874; Aug. 15.
Luitwieler Pumping Engine Company. (See Minor, William A., assignor.)
Lummis, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Regulating mechanism for gas producers. No. 1,425,875; Aug. 15.
Lybeck, Gunnar F., Gottenborg, Sweden. Pump. No. 1,426,206; Aug. 15.
Lyman, Ray J., Berkeley, Calif. Water meter. No. 1,425,876; Aug. 15.
Lynch, William, Brooklyn, N. Y. Crate for milk bottles. No. 1,426,304; Aug. 15.
Lytle, William J. (See Milner, E. E., and Lytle.)
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,425,993; Aug. 15.
McCarthy, James, Long Island City, assignor to Hall Borchert Dress Form Company, New York, N. Y. Dress form. No. 1,425,877; Aug. 15.
McCarty, Thomas D., Hawk Point, Mo. Railway tie. No. 1,425,783; Aug. 15.
McClain, John A. (See Weightman, Charles W., assignor.)
McClellan, Thomas M., et al. (See Scruby, George E., assignor.)
McClintock, Lewis G., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Welding. No. 1,425,529; Aug. 15.
McClure, Elmer P., Western Springs, Ill. Polishing machine. No. 1,425,666; Aug. 15.
McCoy, James P. A., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Plastic composition and articles formed therefrom. No. 1,425,784; Aug. 15.
McCullough, William, Howe, Nebr. Spoke-forming device. No. 1,425,785; Aug. 15.
McCullough, William D., Detroit, Mich. Clutch. No. 1,425,994; Aug. 15.
McDonell, George B., and E. L. Peck, Bartlesville, Okla., assignors, by mesne assignments, to Doherty Research Company, New York, N. Y. Bailer. No. 1,426,305; Aug. 15.
McDuff, Daniel, Dorchester, Mass. Center and surface testing indicator. No. 1,426,207; Aug. 15.
McFadden, John, South Chicago, Ill. Stopper. No. 1,426,306; Aug. 15.
McGiveney, John, New York, N. Y. Snap hinge. No. 1,425,995; Aug 15.
McGovern, Daniel F., Montpelier, Vt. Buffing wheel. No. 1,425,786; Aug. 15.
McGowen, William H., Vincennes, Ind. Rim-locking attachment. No. 1,426,307; Aug. 15.
McIntosh, James, Norristown, Pa., assignor to Diamond State Fibre Company, Elsmere, Del. Waterproofing vulcanized fiber. No. 1,425,878; Aug. 15.
McKenna Brass & Manufacturing Company. (See Haller, Joseph F., assignor.)
McKinley, George A. (See Gregory, Frank E., assignor.)
McKirahan, Samuel, Golden, assignor of two-thirds to F. A. Fuller, Denver, Colo. Extracting metals from ores. No. 1,425,667; Aug. 15.
McLennan, Alexander, Ross, England. Treatment of leather with india rubber. No. 1,425,530; Aug. 15.
McNab & Harlin Manufacturing Company. (See Banks, Frederick R., assignor.)
McNicholas, Hiram, Connell, Wash. Station indicator. No. 1,425,879; Aug. 15.
McQuaid, Harry W., assignor to The Timken Roller Bearing Company, Canton, Ohio. Determining the suitability of steel for casehardening. No. 1,425,787; Aug. 15.
Mabey, Charles W., Indianapolis, Ind. Nut warming and vending machine. No. 1,425,531; Aug. 15.
Mack, Rudolph A., Gallipolis, Ohio. Coaster. No. 1,425,880; Aug. 15.
Magnusson, Carl F., Minneapolis, Minn. Adjustable window curtain and shade holder. No. 1,425,996; Aug. 15.
Maguire, Herbert R., Atherton, Queensland, Australia. Privy. No. 1,425,881; Aug. 15.
Maitland, Harold T., Marcus Hook, assignor to Sun Company, Philadelphia, Pa. Treating hydrocarbon oils. No. 1,425,882; Aug. 15.
Maitland, Harold T., Marcus Hook, assignor to Sun Company, Philadelphia, Pa. Treating hydrocarbon oils. No. 1,425,883; Aug. 15.
Maitland, Harold T., Marcus Hook, assignor to Sun Company, Philadelphia, Pa. Mineral-oil derivative. No. 1,425,884; Aug. 15.
Maitland, Harold T., Sharon Hill, assignor to Sun Company, Philadelphia, Pa. Mineral-oil derivative. No. 1,425,885; Aug. 15.
Maiwurm, Paul, Mansfield, Ohio. Drinking-cup dispenser. No. 1,425,886; Aug. 15.
Mallon, Vincent, New York, N. Y., assignor to Dental Manikin Head Co., Inc. Porcelain tooth for crown, bridge, and plate work. No. 1,425,601; Aug. 15.
Maloney, Henry P., assignor of one-half to H. Harris, St. Louis, Mo. Manifold lock for internal-combustion engines. No. 1,426,308; Aug. 15.
Mann Corporation. (See Yeomans, Lucien L., assignor.)
Mardis, Paul L. (See Rose, E. E., and Mardis.)
Marr, George M., Brooklyn, N. Y. Sanitary cap. No. 1,425,532; Aug. 15.
Marsh, Jas. P., & Company. (See Harrison, Amos, assignor.)
Marshall, Frank L., Newton Center, Mass. Tire. No. 1,425,668; Aug. 15.
Martineau, Francis L., London, England. Operating mechanism of kitchen reversing rudders. No. 1,425,887; Aug. 15.
Maury, Dabney H., Evanston, Ill. Well. No. 1,425,888; Aug. 15.
Maxim Manufacturing Company. (See Smith, Charles F., assignor.)
May, Henry A. (See Jackson, Harry R., assignor.)
Mayer, Franc D., Chicago, Ill. Tire construction. No. 1,425,788; Aug. 15.
Maze, Augustus E., Denver, Colo. Producing chlorine products from unsaturated hydrocarbons. No. 1,425,669; Aug. 15.
Mead, James S., Cincinnati, Ohio. Collar button. No. 1,425,670; Aug. 15.
Meed, James E., Palestine, W. Va. Saw-filing machine. No. 1,425,602; Aug. 15.
Meisner, Joseph, New York, N. Y. Safety purse. No. 1,425,889; Aug. 15.
Meldrum-Gabrielson Corporation. (See Gabrielson, Carl, assignor.)
Merrill, Wilbur L., Schenectady, N. Y., assignor to General Electric Company. Automatic reversing control. No. 1,425,890; Aug. 15.
Metallic Shaft Company, The. (See Lard, Allan E., assignor.)
Metcalfe, Sydney A., Chicago, Ill. Toy building construction. No. 1,426,087; Aug. 15.
Metzler, Frederick C., Shoshone, Wyo. Tail-docking device. No. 1,425,671; Aug. 15.
Meyer, Fred G., Detroit, Mich. Bottle-capping machine. No. 1,425,672; Aug. 15.
Meyer, Fritz. (See Hocke, Johann, assignor.)
Midwest Steel and Supply Company, Inc. (See Jordahl, Anders, assignor.)
Miller Chapman Company. (See Southard, John H., assignor.)
Milmoe, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Carton-filling mechanism. No. 1,425,997; Aug. 15.
Milner, Edwin E., Scott Township, Allegheny County, and W. J. Lytle, Rosslyn Farms Borough, assignors to H. L. Dixon Company, Carnegie, Pa. Muffle-flattening oven and leer. No. 1,426,309; Aug. 15.

Milner, Edwin E., Scott Township, Allegheny County, and W. J. Lytle, Rosslyn Farms Borough, assignors to H. L. Dixon Company, Carnegie, Pa. Plate-glass-annealing leer. No. 1,426,310; Aug. 15.
Mills, Bertie E., assignor to Mills Novelty Company, Chicago, Ill. Electric self-playing violin. No. 1,425,533; Aug. 15.
Mills Novelty Company. (See Mills, Bertie E., assignor.)
Minor, William A., assignor to Luitwieler Pumping Engine Company, Rochester, N. Y. Deep-well pump. No. 1,425,673; Aug. 15.
Mitchell Camera Co. (See Mitchell, George A., assignor.)
Mitchell, George A., assignor to Mitchell Camera Co., Los Angeles, Calif. Tripod and tripod clamp. No. 1,426,088; Aug. 15.
Monaghan, Thomas H., Chicago, Ill. Air heater. No. 1,425,674; Aug. 15.
Moncrief, Jesse R. (See De Vol, B. E., and Moncrief.)
Moody, Howard N., New Orleans, La. Demountable rim. No. 1,426,089; Aug. 15.
Moody, Howard N., New Orleans, La. Demountable rim. No. 1,426,090; Aug. 15.
Moore, John W., Detroit, Mich. Radiator hanger. No. 1,425,891; Aug. 15.
Moore Pen Company. (See Liddell, John G., assignor.)
Moreau, Joseph, assignor to P. N. Nelson, Chicago, Ill. Soldering. No. 1,426,311; Aug. 15.
Morgan Construction Company. (See Lummis, Charles W., assignor.)
Morian, Carlos C., Olean, N. Y. Candy machine. No. 1,425,998; Aug. 15.
Mork, Harry S. (See Esselen, G. J., jr., and Mork.)
Morrison, Andrew, Penn Township, Allegheny County, assignor to Dilworth, Porter & Co., Inc., Pittsburgh, Pa. Tie plate. No. 1,426,312; Aug. 15.
Morrow, Alfred J., assignor to C. E. Farnsworth, Seattle, Wash. Trucking mechanism. No. 1,425,999; Aug. 15.
Moseley, Annie L., San Antonio, Tex. Portable automobile grocery store. No. 1,425,789; Aug. 15.
Mosher, Joseph, Chicago, Ill. Renewable grip handle. No. 1,425,534; Aug. 15.
Mossberg, Frank Company. (See Tuttle, Walter I., assignor.)
Mott, William R., Lakewood, Ohio, assignor to National Carbon Company, Inc. Composition for producing coatings on refractory articles and articles coated therewith. No. 1,425,603; Aug. 15.
Moulton, Clifford E., Ravenna, Ohio. Unit cabinet construction. No. 1,425,892; Aug. 15.
Moyer, Harry R., Thornburg, Pa. Sash. No. 1,425,535; Aug. 15.
Moyer, Paul S., assignor to The Aridor Company, Chicago, Ill. Recrisping means. No. 1,425,790; Aug. 15.
Muicahey, Thomas F., Colfax, Ill. Attachment for motor-vehicle wheels. No. 1,426,208; Aug. 15.
Nathan Manufacturing Company. (See Kassander, Leopold, assignor.)
National Brake & Electric Company. (See Aikman, Burton S., assignor.)
National Carbon Company. (See Benner, R. C., and French, assignors.)
National Carbon Company. (See Mott, William R., assignor.)
National Dump Car Co. (See Hart, Harry S., assignor.)
Naudulaitis, Kleofas, Chicago, Ill. Window adjuster. No. 1,425,675; Aug. 15.
Naudulaitis Kleofas, Chicago, Ill. Protector for horses. No. 1,425,676; Aug. 15.
Neitzel, Frank E., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., South Bethlehem, Pa. Machine for facing propeller blades. No. 1,426,091; Aug. 15.
Nelson, Arthur W., assignor to Stone Thompson Manufacturing Company, Chicago, Ill. Automobile rim lug and wedge. No. 1,425,677; Aug. 15.
Nelson, Lenar F., Racine, Wis. Belt or chain tightener. No. 1,425,604; Aug. 15.
Nelson, Perry S. (See Moreau, Joseph, assignor.)
Neron, Aimé, New Bedford, Mass. Mechanic's tool of the handsaw type. No. 1,425,536; Aug. 15.
New York Bath Manufacturing Co. (See Driver, Wilbur B., assignor.)
New York Bath Manufacturing Co. (See Holley, William V., assignor.)
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Steering device. No. 1,425,678; Aug. 15.
Newland, Charles L., Eltham, England. Closure for bottles, jars, and other receptacles. No. 1,426,209; Aug. 15.
Nicholson, Samuel D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Producing phosphor metals. No. 1,425,679; Aug. 15.
Nitrogen Corporation, The. (See Clancy, John C., assignor.)
No. 2 D. R. Cotton Mills, Limited. (See Andrew, Thomas, assignor.)
Nordiska Kullager Aktiebolaget. (See Lindman, Konrad W., assignor.)
Nordstrom, Elof, Newark, N. J., assignor, by mesne assignments, to American Can Bottle Seal Corporation. Stamping mechanism. No. 1,426,000; Aug. 15.
Novick, Abraham, assignor to F. L. Smithe Machine Co. Inc., New York, N. Y. Machine brake. No. 1,426,092; Aug. 15.
Nylund, Erik L., Detroit, Mich. Railway switch. No. 1,425,680; Aug. 15.
Oak, Noah J., Lynn, Mass. Grading and sorting machine for potatoes. No. 1,425,791; Aug. 15.
Obouhoff, Nikolai, Harbin, China. Frequency changer and generator of alternating current. No. 1,426,001; Aug. 15.
O'Brien, Henry G., assignor to Trumbull Steel Company, Warren, Ohio. Continuous hot mill. No. 1,425,537; Aug. 15.
O'Brien, John G., and F. A. Picard, Saginaw, Mich. Reserve-supply system for tanks. No. 1,425,681; Aug. 15.
Odell, Allan F., Brooklyn, N. Y. Producing organic acids. No. 1,425,605; Aug. 15.
O'Dell, Stephen O., Detroit, Mich. Salve. No. 1,426,002; Aug. 15.
Oehme, Hermann, Cologne-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Preparation of dinitroglycol and its homologues. No. 1,426,313; Aug. 15.
Ogilvie, Julian M., London, England. Cinematographic screen. No. 1,426,317; Aug. 15.
Olmsted, Robert S., Reading, Mass. Sextant for use with balloons. No. 1,425,682; Aug. 15.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Milling cutter. No. 1,425,893; Aug. 15.
O'Neil, Rodolph S., assignor to O'Neil's Recorder Syndicate Limited, London, England. Junction box for electric conductors. No. 1,426,210; Aug. 15.
O'Neill, William J. (See Frazier, W. H., and O'Neill.)
O'Neil's Recorder Syndicate Limited. (See O'Neil, Rodolph S., assignor.)
Onepiece Bifocal Lens Company. (See Bugbee, Lucian W., assignor.)
Orenbuch, Samuel. (See Carmel, Joseph, assignor.)
Orrock, John W., Montreal, assignor of one-half to J. M. R. Fairbairn, Westmont, Quebec, Canada. Weather cover for track scales. No. 1,426,003; Aug. 15.
Oster, Joseph, Locust Valley, N. Y. Housheating system. No. 1,426,004; Aug. 15.
Owens, Jesse C., Los Angeles, Calif. Muffler toilet valve. No. 1,426,093; Aug. 15.
Owens, Jesse C., Los Angeles, Calif. Muffler toilet tank. No. 1,426,094; Aug. 15.
Palmer, Percy W., Edgerton, Wis. Motion-picture machine. No. 1,425,538; Aug. 15.
Papp, Samuel, Lowellville, Ohio. Rail-joint fastener. No. 1,425,683; Aug. 15.
Parker, Albert H., Otsego, Mich. Drier for drying coated paper. No. 1,426,095; Aug. 15.
Parmenter, Theodore A., Racine, Wis. Valve-grinding tool and the like. No. 1,425,684; Aug. 15.
Pascoe, Wilbur, Detroit, Mich., assignor to Westinghouse Electric & Manufacturing Company. Inclosed toaster. No. 1,425,685; Aug. 15.
Pasturczak, Walter, assignor of one-half to F. Szuic, Fairmont, W. Va. Roundabout. No. 1,426,314; Aug. 15.
Paulsen, Jakob A., Jersey City, N. J. Headed stopper. No. 1,425,539; Aug. 15.
Pausin, Hugo R., Allendale, N. J. Closure. No. 1,426,211; Aug. 15.
Peck, Edward L. (See McDonell, G. B., and Peck.)
Peckham, Harold C. (See Jaques, Fernando O., jr., assignor.)
Pegram, George H., South Orange, N. J. Composite railway tie. No. 1,425,686; Aug. 15.
Pennsylvania-Kentucky Oil and Gasoline Refining Company. (See Tilton, Elvin, assignor.)
Penton, Carl T., Detroit, Mich. Flexible mounting for tractor frames. No. 1,425,687; Aug. 15.
People of the United States. (See Polhamus, Loren G.)
Pernot, Frederick E., and L. J. Rich, Washington, D. C. Selective reception of alternating currents. No. 1,426,334; Aug. 15.
Perry, Frank R., Chicago, Ill., assignor, by mesne assignments, of one-half to Benjamin Motor Products Co., Detroit, Mich. Duplex carburetor. No. 1,426,335; Aug. 15.
Petersen, Hans H., Correctionville, Iowa. Loader. No. 1,426,212; Aug. 15.
Pettengill, George M., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Heel-nailing machine. No. 1,425,540; Aug. 15.
Petty, William E., Storm Lake, assignor to J. P. Christiensen, Newell, Iowa. Collapsible hog crate. No. 1,426,315; Aug. 15.
Pfeiffer, Fred B., Akron, Ohio. Pneumatic tire. No. 1,426,005; Aug. 15.
Picard, Frank A. (See O'Brien, J. G., and Picard.)
Pierce, John K., Fort Worth, Tex. Clutch mechanism. No. 1,426,213; Aug. 15.
Pignani, Frank. (See Pignani, Lawrence and F.)
Pignani, Lawrence and F., Blairsville, Pa. Hoist. No. 1,425,792; Aug. 15.
Pipe Machinery Company, The. (See Barber, Albert J., assignor.)
Pitrus, Józefh, Chicopee Falls, Mass. Steel-cutting machine. No. 1,425,894; Aug. 15.
Pittman, Carl L., assignor to The Pittman Company, De Leon, Tex. Safety appliance for railway-car trucks. No. 1,426,096; Aug. 15.

Pittman Company, The. (See Pittman, Carl L., assignor.)
Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
Pittsburgh Transformer Company. (See McClintock, Lewis G., assignor.)
Plumb, Fayette R., Philadelphia, Pa. Method and means for securing wooden handles. No. 1,426,316; Aug. 15.
Polak, Eduard, Groningen, Netherlands. Making pudding compositions. No. 1,426,006; Aug. 15.
Polhamus, Loren G., Chula Vista, Calif., dedicated, by mesne assignments, to the people of the United States. Delinting cotton seed. No. 1,425,688; Aug. 15.
Porath, Carl A., assignor to Kokomo Steel and Wire Company, Kokomo, Ind. Fence-weaving loom. No. 1,426,007; Aug. 15.
Posson, Edward, Park Ridge, Ill. Tank outlet valve and operating mechanism therefor. No. 1,426,008; Aug. 15.
Post, Ernest K., Collingswood, N. J. Front and lock rod for switches. No. 1,426,097; Aug. 15.
Post, Harold L., Appleton, Wis. Game or puzzle. No. 1,425,793; Aug. 15.
Powell, Raymond E., assignor to Federal Electric Company, Chicago, Ill. Charging rack. No. 1,425,689; Aug. 15.
Power, Joseph S., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Frame and casing for washing machines. No. 1,426,318; Aug. 15.
Power Specialty Company. (See Primrose, John, assignor.)
Powers, John N., Washington, D. C. Sales book. No. 1,425,690; Aug. 15.
Pratt, John T., et al., trustees. (See Estabrooke, W. L., and Jackson, assignors.)
Prentiss, William A., Holyoke, Mass. Spool. No. 1,425,895; Aug. 15.
Press, Jacob H., and I. F. Avery, assignors to Jacob Press Sons, Chicago, Ill. Vehicle body. No. 1,425,541; Aug. 15.
Press, Jacob, Sons. (See Press, J. H., and Avery, assignors.)
Prestoy Manufacturing Company, The. (See Carlson, Androv H., assignor.) (Reissue.)
Prigan, Gustave H., assignor of one-third to E. H. Fuller and one-third to A. White, Burns, Mont. Securing device for the connecting strips of automobiles. No. 1,425,691; Aug. 15.
Primrose, John, assignor to Power Specialty Company, New York, N. Y. Damper control for oil stills. No. 1,425,896; Aug. 15.
Procter, Joseph H., and M. J. Sandin, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Refillable fuse. No. 1,425,692; Aug. 15.
Pruitt, Eugene R., Baltimore, Md. Temporary fastening. No. 1,426,098; Aug. 15.
Prutzman, Paul W., Los Angeles, Calif., assignor to General Petroleum Corporation. Apparatus for washing insoluble powders. No. 1,426,099; Aug. 15.
Pullen, George F., assignor to Waterbury Fastener Company, Waterbury, Conn. Snap-fastener top. No. 1,426,100; Aug. 15.
Purdy, Truman J., Sunbury, Pa. Voting booth. No. 1,426,101; Aug. 15.
Purviance, Nathan M., Lewiston, Idaho. Computing device. No. 1,426,332; Aug. 15.
Quackenbush, Cleveland H. and H. E., Cleveland, Ohio. Electric-light bulb. No. 1,425,606; Aug. 15.
Quackenbush, Harvey E. (See Quakenbush, Cleveland H. and H. E.)
Rabinowitz, Louis M., New York, N. Y. Eye for garments. No. 1,425,897; Aug. 15.
Radcliffe, Fred, Philadelphia, Pa. Car journal bearing and lubricating means therefor. No. 1,426,102; Aug. 15.
Radio Corporation of America. (See Waterman, Frank N., assignor.)
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Radio Corporation of America. (See Wright, George M., assignor.)
Rafkovich, Harry, Buffalo, N. Y., assignor, by mesne assignments, to Slohm Tire & Mould Co., inc. Tire mold. No. 1,425,693; Aug. 15.
Railroad Accessories Corporation. (See Lavarack, Frederick C., assignor.)
Ralston, Shirley B., Glasgow, Scotland. Apparatus for graphically ascertaining the stability and trim of ships under assumed loads. No. 1,426,103; Aug. 15.
Randals, Tullus A., Pecos, Tex. Nut lock. No. 1,426,319; Aug. 15.
Rantsch, Edward J., Brooklyn, N. Y. Axle mounting for motor vehicles. No. 1,426,009; Aug. 15.
Rausse, Antonio, Northvale, N. J. Attachment for pruning shears. No. 1,426,214; Aug. 15.
Ravert, William L., assignor to A. W. Drake Manufacturing Co., Hazleton, Pa. Miniature fence. No. 1,426,215; Aug. 15.
Rawlings, Arthur D., Clapham, London, and E. J. Rawlings, Balham, London, England. Automatic sash-raising mechanism. No. 1,426,104; Aug. 15.
Rawlings, Ernest J. (See Rawlings, Arthur D. and E. J.)
Raymond, Prosper J., and G. Adams, Detroit, Mich. Vehicle jack. No. 1,425,542; Aug. 15.
Reardon, Fred A., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Wood-heel-clamping device. No. 1,425,543; Aug. 15.
Recker, Adolph C., Oakville, assignor to The Chase Companies Inc., Waterbury, Conn. Electrical attachment plug. No. 1,425,694; Aug. 15.
Redington, F. B., Company. (See Milmoe, Michael J., assignor.)
Redmond, Harriet L., Boston, assignor to The William Carter Company, Needham Heights, Mass. Infant's hand. No. 1,425,898; Aug. 15.
Redmond, Harriet L., Boston, assignor to The William Carter Company, Needham Heights, Mass. Infant's hand. No. 1,425,899; Aug. 15.
Rees, Frank W., assignor to See-All Manufacturing Co., Seattle, Wash. Mirror attachment for vehicles. No. 1,426,010; Aug. 15.
Reich, Edward E., Chicago, Ill. Locking device for pressing machines. No. 1,425,695; Aug. 15.
Reid, Alfred J., assignor of one-half to P. M. Savage, San Francisco, Calif. Holder for screws, nails, and the like. No. 1,426,320; Aug. 15.
Reiter, Otis F., Baltimore, Md. Stone gatherer. No. 1,425,544; Aug. 15.
Remington Typewriter Company. (See Barney, Edwin C., assignor.)
Reynolds, John A., Detroit, Mich. Roasting and packing ground or whole coffee. No. 1,426,011; Aug. 15.
Rice, John H., Danville, Iowa. Necktie brace. No. 1,425,696; Aug. 15.
Rich, Lester J. (See Pernot, F. E., and Rich.)
Richter, Walter E., assignor to Electric Auto Lite Corporation, Toledo, Ohio. Commutator-segment mounting. No. 1,426,105; Aug. 15.
Rifkin, Joseph, et al. (See Zeitlin, Alexandre, assignor.)
Riggle, Lida E. (See Riggle, Thomas M., assignor.)
Riggle, Thomas M., assignor of one-eighth to L. E. Riggle, Oakland, Calif. Automatic train stop. No. 1,426,321; Aug. 15.
Riksmann, Paul, assignor to Fisher Body Corporation, Detroit, Mich. Pull-strap fixture. No. 1,426,106; Aug. 15.
Roberts, Albert R., and G. T. Smith, Chattanooga, Tenn. Bevel shearing machine. No. 1,426,216; Aug. 15.
Robinson, George L., Beechview, assignor to Blaw-Knox Company, Pittsburgh, Pa. Feed hopper for gas producers. No. 1,425,901; Aug. 15.
Rockbestos Products Corporation. (See Heany, John A., assignor.)
Rockford Milling Machine Company. (See Sundstrand, Gustaf D., assignor.)
Rockford Tool Company. (See Sundstrand, Gustaf D., assignor.)
Roddy, Gustav R., assignor to Chain Belt Company, Milwaukee, Wis. Traveling water screen. No. 1,426,217; Aug. 15.
Rogers, John A. (See Swan, J. B., Rogers, and Jackson.)
Rogers, John C. (See Alder, F., and Rogers.)
Röhm, Otto, Darmstadt, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Tanning with iron salts. No. 1,426,322; Aug. 15.
Root, Frank J., Chicago, Ill. Treating coal. No. 1,425,012; Aug. 15.
Rope, Arthur E., Brooklyn, N. Y. Rubber heel. No. 1,426,218; Aug. 15.
Rorison, John C., New York, N. Y. Fountain pen. No. 1,425,607; Aug. 15.
Rose, Edward E., and P. L. Mardis, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company. Push-button switch. No. 1,425,697; Aug. 15.
Rosen, Louis, Edgewater, Colo. Mechanical movement. No. 1,425,902; Aug. 15.
Roth, Adolph F., Newark, N. J. Closable ventilator. No. 1,425,903; Aug. 15.
Roth, William, assignor of one-half to E. F. Springmeyer, St. Louis, Mo. Polishing composition. No. 1,426,107; Aug. 15.
Rothenberger, Daniel M., Leesport, assignor of one-third to E. P. Wanner and one-third to W. M. Fryermuth, Reading, Pa. Resilient tire. No. 1,426,108; Aug. 15.
Roy, Iréné, Paris, France. Gun-carriage trailer with combined propulsion by wheels and by endless track members. No. 1,426,219; Aug. 15.
Royal Comb Company. (See Holden, Crofton C., assignor.)
Royer, William R., Wilkes-Barre, Pa. Locking device for valve stems. No. 1,425,545; Aug. 15.
Rudolph, Charles W., and W. J. Schlacks, Chicago, Ill. Ratchet drive. No. 1,426,109; Aug. 15.
Rundell, Raymond R., assignor of one-third to G. C. Haesloop, Elmira, N. Y. Combined check and closer. No. 1,425,900; Aug. 15.
Ruskin, Lewis. (See Cohen, Jacob L., assignor.)
Russell, Thomas C., Chicago, Ill. Toaster. No. 1,425,546; Aug. 15.
Ryan, Daniel J., and L. J. Feltes, Cleveland, Ohio. Process of and apparatus for pouring metal. No. 1,426,110; Aug. 15.
Ryan, John A., Rochester, N. Y. Sash-cord coupling. No. 1,425,547; Aug. 15.
Sacker, John, Finsbury Park, London, England. Hair comb. No. 1,426,111; Aug. 15.
Sacks, Herman, Chicago, Ill. Bloomers. No. 1,425,794; Aug. 15.
Sacks, Herman, Chicago, Ill. Bloomers. No. 1,425,795; Aug. 15.
Sajtar, Frank, Polar, Wis. Animal catcher. No. 1,426,220 Aug. 15.

Sale, Robert A., Philadelphia, Pa. Dumping cart. No. 1,425,698; Aug. 15.
Sallada, Clarence E., Huron, S. D. Air moistener. No. 1,425,608; Aug. 15.
Salsgiver, Clyde M., Highland Park, Mich. Valve-spring compressor and holder. No. 1,425,706; Aug. 15.
Sample, John H., Toledo, Ohio. Checker bar. No. 1,426,112; Aug. 15.
Sandin, Maurits J. (See Procter, J. H., and Sandin.)
Sandin, Maurits J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refillable fuse. No. 1,425,699; Aug. 15.
Sandman, August G., Baltimore, Md. Draft rigging. No. 1,426,221; Aug. 15.
Sandman, August G., Baltimore, Md. End plate for freight cars. No. 1,426,222; Aug. 15.
Savage, Peter M. (See Reid, Alfred J., assignor.)
Saxon, Herman R., assignor, by mesne assignments, to Electric Auto-Lite Corporation, Toledo, Ohio. Connector. No. 1,426,323; Aug. 15.
Sayer, Cyril E., Purley, England. Condensing system for locomotives. No. 1,426,113; Aug. 15.
Schaaff, John T., Washington, D. C. Verifying machine. No. 1,426,223; Aug. 15.
Scharfenberg, Oswald. (See Herzberg, W., and Scharfenberg.)
Schelhammer, Herman. (See Kohlmeyer, G., Wing, and Schelhammer.)
Schlacks, William J. (See Rudolph, C. W., and Schlacks.)
Schmid, Herman. (See Fuegel, G., and Schmid.)
Schmidt, Henry F., Pittsburgh, Pa., assignor to The Westinghouse Electric & Manufacturing Company. Packing. No. 1,425,548; Aug. 15.
Schneider, Christian L., Davenport, Iowa. Window-sash weight. No. 1,426,224; Aug. 15.
Schneiderman, John, George, Iowa. Fire-alarm attachment. No. 1,425,797; Aug. 15.
Schoch, William, Ryn Mawr, Pa. Latch for furnace doors. No. 1,425,904; Aug. 15.
Scholz, John G., and E. Weller, Belgrade, Minn. Sled-runner attachment for motor vehicles. No. 1,425,609; Aug. 15.
Schrum Manufacturing Co. (See Schrum, W. T., and Krantz, assignor.)
Schrum, William T., Hammond, Ind., and E. Krantz, assignors to Schrum Manufacturing Co., Chicago, Ill. Shock absorber. No. 1,426,013; Aug. 15.
Schryer, Paul F. (See Waring, James H., assignor.)
Schulke, Harry A., Cleveland, Ohio. Sand toy. No. 1,426,014. Aug. 15.
Schultz, John. (See Hnilo, F., and Schultz.)
Schwartz, Abraham, and J. Wieder, Boston, Mass. Artificial interchangeable tooth. No. 1,426,114; Aug. 15.
Scott, William M., Tredyffrin Township, Chester County, Pa. Circuit-breaker-tripping structure. No. 1,425,700; Aug. 15.
Scruby, George E., assignor of one-fourth to R. R. Taylor and one-fourth to T. M. McClellan, Birmingham, Ala. Paper-board box. No. 1,425,549; Aug. 15.
Sears, John D., et al., trustees. (See Estabrooke, W. L., and Jackson, assignors.)
See-All Manufacturing Co. (See Rees, Frank W., assignor.)
Sem, Mathias O., assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Freeing metals from copper. No. 1,425,701; Aug. 15.
Shaefer, Frederick, et al. (See Christie, Hans L., assignor.)
Shannon, James, Canonbury, London, England. Cooking stove. No. 1,425,702; Aug. 15.
Shartle, Ralph W., assignor to Wayne Manufacturing Company, St. Louis, Mo. Vehicle signal. No. 1,425,905; Aug. 15.
Shaw, Ross O., assignor to Canadian Car & Foundry Company, Limited, Montreal, Quebec, Canada. Repair king post for bolsters. No. 1,425,703; Aug. 15.
Sheehan, Thomas C., Upper Montclair, N. J., assignor to Durham Duplex Razor Company, New York, N. Y. Apparatus for making hollow-ground razor blades. No. 1,425,798; Aug. 15.
Shek, Frank P., Brooklyn, N. Y. Can opener. No. 1,425,704; Aug. 15.
Shelton, William G., New York, N. Y. Automatic electric switch. No. 1,425,610; Aug. 15.
Sheppard, William H., San Francisco, Calif. Geological-fault guide. No. 1,425,705; Aug. 15.
Sherbondy, William E., Cleveland, Ohio. Rotary brush. No. 1,425,906; Aug. 15.
Sherman, John O., Dayton, Ohio. Manifolding typewriter. No. 1,425,907; Aug. 15.
Shirek, Herbert M. (See Jakovleff, Alexis, assignor.)
Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,426,015; Aug. 15.
Short, Henry C., Southall, England, Portable stand for displaying garments. No. 1,426,225; Aug. 15.
Shultz, Albert R., Buffalo, N. Y. Shock absorber. No. 1,426,115; Aug. 15.
Shumaker, James J., Cleveland, Ohio. Container. No. 1,425,908; Aug. 15.
Sigorszky, Louis J., Easton, Pa. Hair cutter. No. 1,426,226; Aug. 15.
Sikes, Washington S., Edgar, Fla. Car-door lock. No. 1,425,799; Aug. 15.
Simmons, Leon W., Forest Lake, Minn. Spring wheel. No. 1,425,706; Aug. 15.
Simons, Joseph, Los Angeles, Calif. Loading and unloading machine. No. 1,426,116; Aug. 15.
Simplex Steel Stamping & Manufacturing Company. (See Tiffany, Hiero G., assignor.)
Skinner, Mortimer B., Wilmette, Ill. Valve-reseating tool. No. 1,425,611; Aug. 15.
Sleiger, Henry, assignor to The D. F. Briggs Company, Attleboro, Mass. Powder container. No. 1,425,909; Aug. 15.
Sleight, George A., Hyde Park, N. Y. Fan-pulley wheel and crank ratchet. No. 1,426,227; Aug. 15.
Slick, Edwin E., Johnstown, Pa. Making return L's. No. 1,426,324; Aug. 15.
Sloane, Max. (See Sloane, Nathan and M.)
Sloane, Nathan and M., Brooklyn, N. Y. Mirror and lighting means therefor. No. 1,426,228; Aug. 15.
Slocomb, Frank F. (See Howard, Emmett M., assignor.)
Slohm Tire & Mould Co. (See Rafkovich, Harry, assignor.)
Small, Frank E., Jamaica, N. Y. Measuring device. No. 1,425,800; Aug. 15.
Smith, Charles F., assignor to Maxim Manufacturing Company, Chicago, Ill. Butter cutter. No. 1,426,016; Aug. 15.
Smith, Elberon D., Brooklyn, assignor to American Machine & Foundry Company, New York, N. Y. Driving mechanism for cigarette machines. No. 1,425,801; Aug. 15.
Smith, George T. (See Roberts, A. R., and Smith.)
Smith, George W., Dallas, Tex. Tire traction lug. No. 1,426,229; Aug. 15.
Smith, Harry M., Seattle, Wash. Holder for containers. No. 1,425,707; Aug. 15.
Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Producing and applying enamel coatings to metallic surfaces. No. 1,425,612; Aug. 15.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,910; Aug. 15.
Smith, Julian H., assignor to Specialty Manufacturing Company, Seattle, Wash. Photographic-printing machine. No. 1,426,117; Aug. 15.
Smith, Robert R., Chester, Pa. Crib or bed cover. No. 1,426,230; Aug. 15.
Smithe, F. L., Machine Co. (See Novick, Abraham, assignor.)
Snow, Henry. (See Girten, James F., assignor.)
Societe Anonyme des Ateliers de Secheron. (See Bauer, B., and von Zeerleder, assignors.)
Sommer, Henry F., Kansas City, Mo. Bake oven. No. 1,425,709; Aug. 15.
Sonje Limited. (See Jones, William A., assignor.)
Sonsthagen, Asbjorn, Leytonstone, England. Machine for mixing chocolate or other material. No. 1,426,118; Aug. 15.
Southard, John H., Glendale, Calif., assignor to Miller Chapman Company. Auto theft signal. No. 1,426,119; Aug. 15.
Sparks, Charles F., Alton, Ill. Bag closing and tying machine. No. 1,425,802; Aug. 15.
Specialty Manufacturing Company. (See Smith, Julian H., assignor.)
Spencer, James B., and P. E. Geldhof, Syracuse, assignors, by mesne assignments, to United States Hoffman Machinery Corporation, New York, N. Y. Garment press. No. 1,426,120; Aug. 15.
Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Rotor for gyroscopes. No. 1,426,336; Aug. 15.
Sperry, Elmer A., Brooklyn, N. Y. Signaling apparatus for detecting submarines. No. 1,426,337; Aug. 15.
Sperry, Elmer A., Brooklyn, N. Y. Visual signaling means. No. 1,426,338; Aug. 15.
Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Wire-wound gyro rotor. No. 1,426,339; Aug. 15.
Sperry Gyroscope Company, The. (See Sperry, Elmer A., assignor.)
Sperry, Samuel E., Woodhaven, assignor to Intertype Corporation, Brooklyn, N. Y. Slug-trimming knife for line-casting machines. No. 1,426,231; Aug. 15.
Spicer Mfg. Corporation. (See Tarbox, Gurdon L., assignor.)
Spiro, Walter J., White Plains, N. Y. Receptacle holder. No. 1,425,550; Aug. 15.
Spray Engineering Company. (See Day, Herbert W., assignor.)
Springborn, Richard, Cleveland, Ohio. Valve. No. 1,425,708; Aug. 15.
Springmeyer, Edward F. (See Roth, William, assignor.)
Stafford, Roy M., Sour Lake, assignor to Lake Tool Company, Hardin County, Tex. Standing valve for pumps. No. 1,425,710; Aug. 15.
Stage, Harold L., Easton, Pa. Feeding means for drills. No. 1,425,613; Aug. 15.
Standard Car Truck Company. (See Barber, Franklin L., assignor.)
Standard Conveyor Company. (See Lister, Charles H., assignor.)
Standard Conveyor Company. (See Tingwall, L. G., and Johnson, assignors.)

Standard Conveyor Company. (See Wego, Peter C., assignor.)
Standard Oil Company of New York. (See Stockford, Charles E., assignor.)
Standefer, Henry R., Melvin, Tex. Automatic weighing scale. No. 1,425,911; Aug. 15.
Stanis, Joseph, Riverton, Ill. Air compressor. No. 1,426,325; Aug. 15.
Stanley Insulating Company. (See Smith, Herbert M., assignor.)
Stanley, John C. W., Long Beach, assignor to The Title Guarantee and Trust Company, Los Angeles, Calif. Apparatus for treating fish oil and the like. No. 1,425,803; Aug. 15.
Stanton, William H., Ridley Park, Pa. Furnace for producing silicate of soda and the like. No. 1,425,551; Aug. 15.
Staples, Robert T., assignor to Western Electric Company, Incorporated, New York, N. Y. Condenser and making same. No. 1,425,912; Aug. 15.
Steiner, George A., assignor, by mesne assignments, to Steiner Sales Company, Salt Lake City, Utah. Roller-towel cabinet. No. 1,426,121; Aug. 15.
Steiner, Joseph C., St. Louis, Mo. Rotatable tool holder for lathes. No. 1,425,804; Aug. 15.
Steiner Sales Company. (See Steiner, George A., assignor.)
Steinmetz Electric Motor Car Corporation. (See Leoni, Alfonso M., assignor.)
Stern & Weisbart. (See Stern, Louie, assignor.)
Stern, Louie, assignor to Stern & Weisbart, New York, N. Y. Lock. No. 1,426,122; Aug. 15.
Stewart, Richard F., Briarcliff Manor, N. Y. Butter-print-forming machine. No. 1,425,711; Aug. 15.
Stickel, Frederick, Chicago, Ill. Pump. No. 1,425,614; Aug. 15.
Stockford, Charles E., Brooklyn, assignor to Standard Oil Company of New York, New York, N. Y. Distilling petroleum under high pressure. No. 1,425,712; Aug. 15.
Stoekle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-control system. No. 1,426,123; Aug. 15.
Stokes & Smith Company. (See Stokes, John S., assignor.)
Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Container structure. No. 1,425,713; Aug. 15.
Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Container structure. No. 1,425,714; Aug. 15.
Stone Thompson Manufacturing Company. (See Nelson, Arthur W., assignor.)
Straight, Halver R., Adel, Iowa. Mining machine. No. 1,425,913; Aug. 15.
Strauss, Joseph B., Chicago, Ill. Elevated railway. No. 1,425,805; Aug. 15.
Strawn, Orval R., Columbus, Ohio. Vehicle signal device. No. 1,426,017; Aug. 15.
Stroud, William. (See Barr, A., and Stroud.)
Stryker, Walter W., deceased, by E. T. Jones, administrator, Dayton, Ohio. Railway spike. No. 1,425,715; Aug. 15.
Stukenborg, Frederick W. (See Stukenborg, Louis C., assignor.)
Stukenborg, Louis C., assignor to F. W. Stukenborg, Chicago, Ill. Cotton-picker suction nozzle. No. 1,426,326; Aug. 15.
Stutzke, R., Company. (See Zimmermann, Hans J., assignor.)
Sullivans Frank P., Belvidere, Ill. Washbasin for automobiles. No. 1,426,018; Aug. 15.
Summerfield, Bernard, Chicago, Ill. Shoe heel. No. 1,426,019; Aug. 15.
Sun Company. (See Maitland, Harold T., assignor.)
Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Indexing mechanism. No. 1,425,716; Aug. 15.
Sundstrand, Gustaf D., assignor to Rockford Milling Machine Company, Rockford, Ill. Milling machine. No. 1,425,717; Aug. 15.
Sussman, Julius L., New York, N. Y. Tubular structure. No. 1,425,718; Aug. 15.
Suter, Eugène F., London, England. Hair curler. No. 1,426,020; Aug. 15.
Svendsgaard, Sverre R., Portland, Oreg. Toilet outfit. No. 1,426,021; Aug. 15.
Swan, John B., J. A. Rogers, and G. W. Jackson, Gladstone, Mich. Bedspring apparatus. No. 1,425,719; Aug. 15.
Swift, George W., jr., Bordentown, N. J. Reenforced blank material for the manufacture of paper boxes or containers. No. 1,425,914; Aug. 15.
Swift, Jay H., Philadelphia, Pa. Band for engaging and holding the ends of the ribs of umbrellas when closed. No. 1,425,806; Aug. 15.
Swift, Worthington. (See Lineaweaver, William C., assignor.)
Sykes, Wilfred, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of ship propulsion. No. 1,425,615; Aug. 15.
Szulc, Frank. (See Pasturczak, Walter, assignor.)
Tagnart, Eugene B., Indiana, Pa. Rail clamp. No. 1,425,915; Aug. 15.
Tarbox, Gurdon L., Plainfield, assignor to Spicer Mfg. Corporation, South Plainfield, N. J. Flexible coupling. No. 1,425,616; Aug. 15.
Taylor, Bayard E., Oak Park, Ill. Latch for automobile doors. No. 1,425,552; Aug. 15.
Taylor, Frederick W., Salisbury, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tack handling mechanism. No. 1,425,553; Aug. 15.
Taylor, George B., Belfast, Ireland. Box, folder, and like container. No. 1,425,720; Aug. 15.
Taylor, Robert R., et al. (See Scruby, George E., assignor.)
Taylor, Roy W., Chicago, Ill. Battery container. No. 1,425,721; Aug. 15.
Techel, Hans, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel, Germany. Ammunition hoist. No. 1,425,916; Aug. 15.
Telautograph Corporation. (See Tiffany, George S., assignor.)
Tempelaar, Hendrik A., Tandjong-Karang, Sumatra. Tea-leaf-rolling machine. No. 1,425,722; Aug. 15.
Terry, Richard S., Milford, Conn. Game apparatus. No. 1,425,617; Aug. 15.
Thalhammer, Karl W., Los Angeles, Calif. Support for cameras. No. 1,425,807; Aug. 15.
Theodorsen, Olav T., Christiania, Norway. Wood joint. No. 1,426,232; Aug. 15.
Thomas, A. Alexander. (See Blieberger, Charles, assignor.)
Thomas, Cassius M., St. Louis, Mo. Truss. No. 1,426,124; Aug. 15.
Thomas, Horace T., Lansing, Mich. Running board. No. 1,425,554; Aug. 15.
Thomas, Lawrence H. (See Kuhn, F., and Thomas.)
Thomas, William B., Jacksonville, Fla. Steering device for motor vehicles. No. 1,425,723; Aug. 15.
Thompson, Charles D., Kirksville, Mo. Airship. No. 1,425,555; Aug. 15.
Thompson, John T., Newport, Ky., assignor to Auto-Ordnance Corporation, New York, N. Y. Breech mechanism for guns. No. 1,425,808; Aug. 15.
Thompson, John T., Newport, Ky., assignor to Auto-Ordnance Corporation, New York, N. Y. Breech-closure mechanism. No. 1,425,809; Aug. 15.
Thompson, John T., Newport, Ky., assignor to Auto-Ordnance Corporation, New York, N. Y. Automatic gun. No. 1,425,810; Aug. 15.
Thomson, John, Brooklyn, N. Y. Method and means for producing oxide of zinc. No. 1,425,917; Aug. 15.
Thomson, John, Brooklyn, N. Y. Method and means for producing oxide of zinc. No. 1,425,918; Aug. 15.
Thomson, John, Brooklyn, N. Y. Engine piston. No. 1,426,022; Aug. 15.
Thomson, S. H., Manufacturing Company, The. (See Thomson, Samuel H., assignor.)
Thomson, Samuel H., assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Spotlamp for automobiles and the like. No. 1,426,023; Aug. 15.
Thureson, John A., Eureka, Calif. Hunting and fishing jacket. No. 1,426,024; Aug. 15.
Tiffany, George S., Summit, N. J., assignor to Telautograph Corporation, Richmond, Va. Telautographic apparatus. No. 1,426,233; Aug. 15.
Tiffany, Hiero G., St. Louis, Mo. Stand. No. 1,426,327; Aug. 15.
Tiffany, Hiero G., assignor to Simplex Steel Stamping & Manufacturing Company, St. Louis, Mo. Stand. No. 1,426,328; Aug. 15.
Tilton, Elvin, Encampment, Wyo., assignor, by mesne assignments, to Pennsylvania-Kentucky Oil and Gasoline Refining Company, Wheeling, W. Va. Safety lock joint. No. 1,425,724; Aug. 15.
Timken Roller Bearing Company. (See McQuaid, Harry W., assignor.)
Tingwall, Lloyd G., and A. J. Johnson, St. Paul, Minn., assignors to Standard Conveyor Company. Controller for intersecting conveyers. No. 1,425,556; Aug. 15.
Tingwall, Lloyd G., and A. J. Johnson, St. Paul, Minn., assignors to Standard Conveyor Company. Converger for conveyers. No. 1,425,557; Aug. 15.
Title Guarantee and Trust Company. (See Stanley, John C. W., assignor.)
Toledo Milling Machine Company, The. (See Waite, Lorenzo E., assignor.)
Trace, Russell A., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Cooker for oil-bearing material. No. 1,425,811; Aug. 15.
Tremblay, Hormidas, Southbridge, Mass. Making spectacle frames and similar articles. No. 1,425,919; Aug. 15.
Trepier, Paul A., Paris, France. Locking washer. No. 1,425,725; Aug. 15.
Trinca, Frederick. (See Velo, Anthony C., assignor.)
Troeger, Herman W., Detroit, Mich. Stop for phonographs. No. 1,426,125; Aug. 15.
Troy Laundry Machinery Co. (See Bartholomew, William, assignor.)
Truck, Tractor, and Manufacturing Company. (See Jacobs, I. M., and Cramer, assignors.)
Trumbull Steel Company. (See O'Brien, Henry G., assignor.)
Turck, Edward J., St. Louis, Mo. Pneumatic tire. No. 1,425,812; Aug. 15.
Türk, Gustav, Meiningen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Machine for manufacturing fiber strips from paper pulp and the like. No. 1,426,329; Aug. 15.
Tuggle, Henry N., Clay Center, Kans. Generator and magneto bearing puller. No. 1,426,126; Aug. 15.

Tuttle, Walter L., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Ratchet wrench. No. 1,426,127; Aug. 15.
U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
Uber, Harry S., Philadelphia, Pa. Phonograph. No. 1,426,128; Aug. 15.
Underwood, George T., Maxwell, Calif. Hydraulic air compressor. No. 1,425,813; Aug. 15.
Underwood Typewriter Company. (See Hilsee, Charles M., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)
United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)
United Shoe Machinery Corporation. (See Ferguson, George, assignor.)
United Shoe Machinery Corporation. (See Taylor, Frederick W., assignor.)
United States Hoffman Machinery Corporation. (See Spencer, J. B., and Geldhof, assignors.)
Universal Manufacturing Company. (See De Vol, B. E., and Mouerief, assignors.)
Valerius, Theodore L., and O. Larsen, Fort Atkinson, Wis., assignors to The Creamery Package Mfg. Company, Chicago, Ill. Ice-cream freezer. No. 1,425,814; Aug. 15.
Valois, Félix E., Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Shoe machine. No. 1,425,558; Aug. 15.
Van Horn, Vandiver J., Chicago, Ill. Gun-tape-holding device. No. 1,425,815; Aug. 15.
Van Horn, Vandiver J., Chicago, Ill. Wrench. No. 1,425,816; Aug. 15.
Velo, Anthony C., New York, N. Y., assignor of one-half to F. Trinca, West New York, N. J. Disappearing automobile top. No. 1,426,129; Aug. 15.
Viscobold Co. et al., The. (See Brooks, Benjamin T., assignor.)
Vodicka, John, assignor to Cinch Fastener Corporation, Chicago, Ill. Curtain fastener. No. 1,425,618; Aug. 15.
Voelker, John P. (See Flick, H., Voelker, and Dunn.)
Von Osten, Frederick, assignor to S. S. von Osten, East Orange, N. J. Disintegrating machine. No. 1,425,920; Aug. 15.
Von Osten, Sophie S. (See von Osten, Frederick, assignor.)
Von Zeerleder, Alfred. (See Bauer, B., and von Zeerleder.)
Waite, Lorenzo E., assignor to The Toledo Milling Machine Company, Toledo, Ohio. Bearing. No. 1,426,130; Aug. 15.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,921; Aug. 15.
Waldner, Helma T., Middletown, Conn. Drip cup for feed cutters. No. 1,426,025; Aug. 15.
Walker, Cyrus M., Kansas City, Mo. Underwear garment. No. 1,425,726; Aug. 15.
Walker, Henry C. (See Kampfe, Otto, assignor.)
Wallstrom, George P., assignor to Lane Manufacturing Company, Montpelier, Vt. Truck. No. 1,425,727; Aug. 15.
Walsh, Michael, Denver, Colo. Frogless switch. No. 1,425,619; Aug. 15.
Wampach, Frank E., and A. E. Karlberg, Chicago, Ill. Telephone attachment. No. 1,425,559; Aug. 15.
Wanick, George T. (See Eggleston, Will J., assignor.)
Wanner, Ephraim P., et al. (See Rothenberger, Daniel M., assignor.)
Waring, James H., Milwaukee, assignor of one-half to P. F. Schryer, Wauwatosa, Wis. Magazine pencil. No. 1,426,131; Aug. 15.
Wasserfallen, Charles F., assignor to Detroit Tire Carrier Co., Detroit, Mich. Tire-rim lock. No. 1,425,817; Aug. 15.
Wasson Piston Ring Company. (See Wolf, William F., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas P., assignor.)
Waterbury Fastener Company. (See Pullen, George F., assignor.)
Waterman, Frank N., Summit, N. J., assignor, by mesne assignments, to Radio Corporation of America. Electrical measuring instrument. No. 1,426,132; Aug. 15.
Waters, Harry B., Denver, Colo. Broom and brush. No. 1,425,560; Aug. 15.
Wayne Manufacturing Company. (See Shartle, Ralph W., assignor.)
Weagant, Roy A., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Apparatus for preventing static interference in radiosignaling. No. 1,426,133; Aug. 15.
Webb, Wilfred L. (See Crossley, K. I., and Webb.)
Weber, Tobias, Los Angeles, Calif. Trailer coupling. No. 1,426,134; Aug. 15.
Weber, Wilhelm, assignor to Firm Gewerkschaft Hausbach II, Wiesbaden, Germany. Apparatus for flushing conduits. No. 1,426,135; Aug. 15.
Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone-exchange system. No. 1,425,728; Aug. 15.
Webster, Oscar A., Edgewood, assignor to Allen Wrench & Tool Company, Providence, R. I. Attachment for vise jaws. No. 1,426,026; Aug. 15.
Wego, Peter C., St. Paul, Minn., assignor to Standard Conveyor Company. Conveyer roller. No. 1,425,561; Aug. 15
Weightman, Charles W., assignor of one-half to J. A. McClain, Carlisle, Pa. Manure spreader. No. 1,425,729; Aug. 15.
Weiss, Pauline B., New York, N. Y. Boll-weevil destroyer. No. 1,426,234; Aug. 15.
Weller, Edward. (See Scholz, J. G., and Weller.)
Wentworth, Frank V., Los Angeles, Calif. Radiator construction. No. 1,426,235; Aug. 15.
Wesnigk, Erwin, Berlin, Germany. Adjustable or self-regulating propeller. No. 1,425,922; Aug. 15.
West, John W., Lynn, Mass., assignor to General Electric Company. Reactive volt-ampere meter. No. 1,425,818; Aug. 15.
Western Electric Company, Incorporated. (See Kiesel, Walter C., assignor.)
Western Electric Company, Incorporated. (See Staples, Robert T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Click, William S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Garcelon, G. H., and Chantemerle, assignors.)
Westinghouse Electric and Manufacturing Company. (See Gazda, Adolph A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Harvey, Albert L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Keith, Harold L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Nicholson, Samuel L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pascoe, Wilbur, assignor.)
Westinghouse Electric & Manufacturing Company. (See Procter, J. H., and Sandin, assignors.)
Westinghouse Electric & Manufacturing Company. (See Rose, E. E., and Mardis, assignors.)
Westinghouse Electric & Manufacturing Company. (See Sandin, Maurits J., assignor.)
Westinghouse Electric & Manufacturing Company, The. (See Schmidt, Henry F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sykes, Wilfred, assignor.)
Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
Westinghouse Electric Products Company. (See Woodson, James C., assignor.)
Weyhrauch, Frederick, New York, N. Y. Brush cleaner. No. 1,425,923; Aug. 15.
Wheeler, James S., Mesa, Ariz. Headlight. No. 1,425,562; Aug. 15.
Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Propeller lathe. No. 1,425,563; Aug. 15.
Whitall-Tatum Company. (See Headley, B. T., and Du Bois, assignors.)
White, Arthur, et al. (See Prigan, Gustave H., assignor.)
Whiteside, John E., Alexander, La. Reenforced cement roofing. No. 1,425,564; Aug. 15.
Whitted, Howard F., Santa Paula, Calif. Ball and socket device. No. 1,425,730; Aug. 15.
Widmeier, Louis, et al. (See Heller, Jesse B., assignor.)
Wieder, John. (See Schwartz, A., and Wieder.)
Wilde, Marie V., New York, N. Y. Heelless overshoe. No. 1,425,731; Aug. 15.
Wilkin, Joseph N., Hillsboro, Ohio. Harrow. No. 1,425,819; Aug. 15.
Willard, Theodore A., East Cleveland, Ohio. Storage battery. No. 1,425,924; Aug. 15.
Williams, Clyde E., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Preparing aqueous solutions of antimony trichloride. No. 1,425,565; Aug. 15.
Williams, Edward, Smethwick, England. Ball bearing. No. 1,426,236; Aug. 15.
Williams, George H., assignor to Boston Clip and Tag Company, Boston, Mass. Machine for attaching laundry tags. No. 1,426,330; Aug. 15.
Williams, George H., Burnside, Ky. Flat for egg and other cases. No. 1,425,820; Aug. 15.
Williams, Laurin L., Oneida, Kans. Tire patch. No. 1,425,925; Aug. 15.
Williams, William E., Chicago, Ill. Hub demountable double disk wheel. No. 1,425,926; Aug. 15.

Williamson, James C., Cordele, Ga. Cable lock. No. 1,425,732; Aug. 15.
Wills, William H., jr., Charlerol, Pa. Nozzle. No. 1,426,136; Aug. 15.
Wilson, David H., Philadelphia, Pa. Diaphragm frame mounting for reproducers. No. 1,425,566; Aug. 15.
Wilson, Hugh A., Mankato, Minn. Deflated-tire signal. No. 1,425,733; Aug. 15.
Wiltse, Sumner, Dayton, Ohio. Connecting rod for engines. No. 1,425,567; Aug. 15.
Wing, Claude E. (See Kohlmeyer, G., Wing, and Schelhammer.)
Wirebounds Patents Company. (See Inwood, Richard G., assignor.)
Wirrer, Gottfried. (See Josephs, L. C., jr., and Wirrer.)
Witzberger, Etienne, Carnegie, Pa., assignor to Witzberger Heating Appliances Company. Snap stove bolt. No. 1,426,237; Aug. 15.
Witzberger, Etienne, Carnegie, Pa., assignor to Witzberger Heating Appliances Company. Movable reflector heater. No. 1,426,238; Aug. 15.
Witzberger, Etienne, Carnegie, Pa., assignor to Witzberger Heating Appliances Company. Spring stove bolt. No. 1,426,239; Aug. 15.
Witzberger Heating Appliances Company. (See Witzberger, Etienne, assignor.)
Wolf, William F., Somerville, assignor to Wasson Piston Ring Company, Plainfield, N. J. Centrifugal casting machine. No. 1,425,927; Aug. 15.
Wood, Alexander H., Kilday, Ky., assignor to Wood Equipment Company, Chicago, Ill. Rotary car tipple. No. 1,426,027; Aug. 15.
Wood Equipment Company. (See Wood, Alexander H., assignor.)
Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electric bake oven. No. 1,425,620; Aug. 15.
Wright, George M., Chesterfield, England, assignor to Radio Corporation of America. Radiogoniometer. No. 1,426,137; Aug. 15.
Wright, James E., Bay City, Mich. Hoop-forming machine. No. 1,426,028; Aug. 15.
Wright, Parvin. (See Gerrard, A. J., and Wright.)
Wyman, Charles O., Anoka, Minn. Running gear. No. 1,425,734; Aug. 15.
Yeomans, Lucien I., Chicago, assignor to Mann Corporation, Kankakee, Ill. Measuring and discharging apparatus. No. 1,425,735; Aug. 15.
Yoder, Joseph D., assignor to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa. Water-softening apparatus. No. 1,425,621; Aug. 15.
Young, Charles E., Shenandoah, Iowa. Glove or mitten. No. 1,426,029; Aug. 15.
Zeitlin, Alexandre, assignor of one-fourth to J. Heller, one-fourth to J. Rifkin, and one-fourth to S. Heller, New York, N. Y. Fail-checking device for aircraft. No. 1,426,331; Aug. 15.
Zelinsky, John, Portsmouth, Va. Rail joint. No. 1,425,736; Aug. 15.
Zienner, Emanuel E., Chicago, Ill. Indicator lamp. No. 1,426,240; Aug. 15.
Zimmermann, Hans J., Chicago, Ill., assignor, by mesne assignments, to R. Stutzke Company. Spray desiccation apparatus. No. 1,426,030; Aug. 15.
Zini, Joseph J., Chicago, Ill. Sediment-containing bottle cap. No. 1,426,241; Aug. 15.
Zohm, Richard, Rockford, Ill. Fly swatter. No. 1,425,622; Aug. 15.
Zsarnay, Béla, Belleville, assignor of one-half to A. Lewis, Newark, N. J. Mounted combination toy and carousel. No. 1,425,737; Aug. 15.
Zweng, Ludwig, Pfronten-Steinach, Germany. Folding drawing pen. No. 1,425,738; Aug. 15.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Acheson Harden Company. (See Harden, James, assignor.)
Anderson, Carl T., Madison, Wis. Desk. No. 61,355; Aug. 15.
Andrews, Daniel A., Cedar Keys, Fla. Brush. Nos. 61,356–8; Aug. 15.
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Chain. No. 61,359; Aug. 15.
Blackwell, William T., Westfield, N. J., assignor to Westinghouse Lamp Company. Lighting fixture. No. 61,360; Aug. 15.
Bostroem, August, assignor to S. R. Schwartz, New York, N. Y. Portable lamp base. Nos. 61,361–2; Aug. 15.
Butterick, Naason Z., Jacksonville, Fla. Roofing element. No. 61,363; Aug. 15.
Garroway, Leon. (See Schnitzer, Garroway, and Gelfman.)
Gelfman, Nathan. (See Schnitzer, Garroway, and Gelfman.)
Gowran, Harry C., assignor to The Hamilton Manufacturing Company, Two Rivers, Wis. Cabinet. No. 61,364; Aug. 15.
Gowran, Harry C., assignor to The Hamilton Manufacturing Company, Two Rivers, Wis. Table. No. 61,365; Aug. 15.
Hamilton Manufacturing Company, The. (See Gowran, Harry C., assignor.)
Harden, James, assignor to The Acheson Harden Company, New York, N. Y. Handkerchief, napkin, or similar article of manufacture. Nos. 61,366–9; Aug. 15.
Karfiol, Edward, Brooklyn, N. Y. Shelf paper. No. 61,370; Aug. 15.
Lowy, Felix, assignor to The Palmolive Company, Milwaukee, Wis. Carton. No. 61,371; Aug. 15.
Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 61,372; Aug. 15.
Namiot, Charles B., New York, N. Y. Wedding ring. No. 61,373; Aug. 15.
Newland, Barnet, New York, N. Y. Tassel for lighting fixtures. No. 61,374; Aug. 15.
Newland, Barnet, New York, N. Y. Loop for lighting fixtures. No. 61,375; Aug. 15.
Newland, Barnet, New York, N. Y. Wall bracket. No. 61,376; Aug. 15.
Nygren, Albert G., Milwaukee, Wis. Light fixture. No. 61,377; Aug. 15.
Oehrle Brothers Company. (See Oehrle, Franklin W., assignor.)
Oehrle, Frank W., assignor to Oehrle Brothers Company, Philadelphia, Pa. Fringe. Nos. 61,378–9; Aug. 15.
Palmolive Company, The. (See Lowy, Felix, assignor.)
Park & Tilford. (See Ritterbeck, Aloysius, assignor.)
Ritterbeck, Aloysius, West Hoboken, N. J., assignor to Park & Tilford, New York, N. Y. Olive-oil bottle. No. 61,380; Aug. 15.
Schnitzer, Louis M., L. Garroway, Brooklyn, and N. Gelfman, New York, N. Y. Tray. No. 61,381; Aug. 15.
Schwartz, Samuel R. (See Bostroem, August, assignor.)
Schwerin, Harry, Brooklyn, N. Y. Footwear. Nos. 61,382–3; Aug. 15.
Westinghouse Lamp Company. (See Blackwell, William T., assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A/S Gadus, Christiania, Norway. Cod-liver oil. No. 157,810; Aug. 15.
Aaron-Fleischer Silk Co., St. Louis, Mo. Silks, both in the piece and the bolt. No. 157,630; Aug. 15.
Abbot Jacket Manufacturing Company, St. Louis, Mo. Workmen's one-piece overall suits. No. 157,631; Aug. 15.
Adams, Franklin P., New York, N. Y. Newspaper column. No. 157,632; Aug. 15.
Alward-Anderson-Southard Co., Chicago, Ill. Hunting and riding coats, vests, and pants. No. 157,633; Aug. 15.
American Milk Products Corporation, New York, N. Y. Evaporated milk. Nos. 157,634–5; Aug. 15.
Arecibo Grape Fruit Company, New York, N. Y. Canned grapefruit. No. 157,801; Aug. 15.
Audit Bureau of Circulations, Chicago, Ill. Statements, auditors' reports, and bulletins. No. 157,636; Aug. 15.
Backus, William O., San Francisco, Calif. Dietary cookies. No. 157,637; Aug. 15.
Bailly, Marcel, Paris, France. Soap. No. 157,638; Aug. 15.
Baker, H. A., Inc., Sumner, Wash. Canned fruits and vegetables. No. 157,639; Aug. 15.
Barrington Manufacturing Corporation, Dover, Del., and Mount Vernon, N. Y. Washing compound. No. 157,641; Aug. 15.
Behr, Herman, & Company Incorporated, Brooklyn, N. Y. Abrasive papers and cloths. No. 157,642; Aug. 15.
Bennington Hosiery Company, Bennington, Vt. Hosiery and stockings. No. 157,802; Aug. 15.
Berg, F., & Company, Orange, N. J. Men's felt hats. No. 157,803; Aug. 15.
Bernatein, Samuel, doing business as Reliable Household Specialties Manufacturing Company, New York, N. Y. Washing compounds. No. 157,643; Aug. 15.
Bertley Co., The, New York, N. Y., assignor to Jean Jordeau Incorporated, South Orange, N. J. Chemical preparation for the removal of superfluous hair. No. 157,804; Aug. 15.
Binder, Richard C. R., and Laura B. Schreiber, Philadelphia, Pa., trustees of the estate of Richard Binder, deceased. Tar and antiseptic soap. No. 157,644; Aug. 15.
Boston Confectionery Company, Cambridge, Mass. Candy. No. 157,645; Aug. 15.
Bourjois, A., & Co., Inc., New York, N. Y. Soaps. Nos. 157,646–7; Aug. 15.
Bozan Sales Corporation. (See Brazilian Coffee Houses, Inc., assignor.)
Brammer, Roy, Huntington, W. Va. Newspaper sections. No. 157,648; Aug. 15.
Brazilian Coffee Houses, Inc., assignor to Bozan Sales Corporation, New York, N. Y. Coffee. No. 157,649; Aug. 15.
Callow, Edwin, Washington, D. C. Humorous newspaper articles and circulars issued from time to time. No. 157,650; Aug. 15.
Carlson, C. G., Ice Cream Company, The, Denver, Colo. Ice cream. No. 157,651; Aug. 15.
Casey, Mae, Raleigh, N. C. Vanishing cream. No. 157,805; Aug. 15.
Cavanagh Manufacturing Co., Chicago, Ill. Preservative for leather and fabric belting. No. 157,652; Aug. 15.
Chatfield, Frederick H., Cincinnati, Ohio. Package containing two paper towels and a piece of soap. No. 157,653; Aug. 15.
Cheramy Incorporated, New York, N. Y. Toilet soap. No. 157,654; Aug. 15.
Clark, George H., Newark, N. J. Cream malted chocolate. No. 157,655; Aug. 15.
Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. No. 157,656; Aug. 15.
Commercial Solvents Corporation, New York, N. Y. Certain chemical preparations. No. 157,806; Aug. 15.
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Women's dresses and aprons, children's dresses, rompers, and playsuits, etc. No. 157,657; Aug. 15.
Corset Artistique, Inc., Jackson and Marshall, Mich. Certain articles of clothing. No. 157,807; Aug. 15.
Crescent Company, New York, N. Y. Sweaters, bathing suits, knitted jackets, etc. No. 157,658; Aug. 15.
Crest Net Company, Inc., The, New York, N. Y. Hair nets. No. 157,659; Aug. 15.
Crown Margarin Company, Inc., St. Louis, Mo. Evaporated milk. No. 157,660; Aug. 15.
Davies-Young Soap Company, The, Dayton, Ohio. Certain soap and cleansers. No. 157,661; Aug. 15.
Davies-Young Soap Company, The, Dayton, Ohio. Wet-cleaning soap. No. 157,662; Aug. 15.
Davis, Michael J., Brooklyn, N. Y. Mopping powder used for cleaning granite, glassware, etc. No. 157,663; Aug. 15.
Delta Sigma Phi Fraternity, The, New York, N. Y., and Washington, D. C. Quarterly publication. No. 157,664; Aug. 15.
Derwent Mills Limited, Matlock Borough, England. Woven, knitted, and other cloths and stuffs. No. 157,665; Aug. 15.
Detroit News, The. (See Evening News Association.)
Dewey, Edward B., Washington, D. C., and New York, N. Y. Hair nets. No. 157,666; Aug. 15.
De Witt-Seitz Co., Duluth, Minn. Mattresses and bed springs. No. 157,667; Aug. 15.
Dohner, Lester, Elizabethtown, Pa. Grease used in treatment of leather shoes, belting, and harness. No. 157,668; Aug. 15.
Drackett, P. W., & Sons Co., Cincinnati, Ohio. Chemical for cleansing drains, sinks, washboards, etc. No. 157,669; Aug. 15.
Eatabita Cheese Company. (See Vollmer, Roger H.)
Economy Bias Binding Company, New York, N. Y. Bias seam tape. No. 157,808; Aug. 15.
Elsner, Sigmund, Company, Red Bank, N. J. Men's and boys' outer wearing negligee and work shirts. No. 157,670; Aug. 15.
Emfertra Manufacturing Co. (See Travieso, Emilio F.)
Evening News Association, doing business as The Detroit News, Detroit, Mich. Newspaper section. No. 157,671; Aug. 15.
Franklin Coffee Co., The, Columbus, Ohio. Coffee. No. 157,672; Aug. 15.
Frohman, L. H., & Company, Inc., Chicago, Ill. Coffee. No. 157,809; Aug. 15.
General Abrasive Co, Inc., Niagara Falls, N. Y. Corundum, emery, and silicon carbide. No. 157,673; Aug. 15.
Giebeler & Goldman, Merced, Calif. Figs dried, canned, green, and preserved. No. 157,674; Aug. 15.
Gold Mark Knitting Co., Woonsocket, R. I. Knitted goods of wool and wool mixture. No. 157,675; Aug. 15.
Goldsmith, Solomon W., Philadelphia, Pa. Laundry soap. No. 157,676; Aug. 15.
Hairlight Company, The, Leominster, Mass. Hair rolls and puffs. No. 157,677; Aug. 15.
Harvey, Isaac F., Bradford, England. Textile piece goods. No. 157,678; Aug. 15.
Hasbrouck, John E., doing business as Hasbrouck Laboratories, New York, N. Y. Preparation for removing dirt and stains from the hands, etc. No. 157,679; Aug. 15.
Hasbrouck Laboratories. (See Hasbrouck, John E.)
Haskins Bros. & Company, Sioux City, Iowa, and Omaha, Nebr. Toilet soap. No. 157,680; Aug. 15.
Hearn, James A., & Son Inc., New York, N. Y. Muslin piece goods, sheets, and pillowcases. No. 157,811; Aug. 15.
Heidelberger Confectionery Co., Philadelphia, Pa. Candies. No. 157,681; Aug. 15.
Hess Warming & Ventilating Company, Chicago, Ill. Medicine cabinets. No. 157,682; Aug. 15.
Howard, John S., Los Angeles, Calif. Strop dressing. No. 157,683; Aug. 15.
Howe, H. B., Company, The, Detroit, Mich. Display stands and shelves. No. 157,684; Aug. 15.
Huff, Oliver W., Hot Springs, Ark. Dentifrice. No. 157,685; Aug. 15.
Hume, G. W., Company, San Francisco, Calif. Canned fish, salmon, fruits, and vegetables. No. 157,686; Aug. 15.
Hurd, George B., & Co., New York, N. Y. Writing paper and correspondence envelopes. No. 157,812; Aug. 15.
Hymson, Charles E., Louisville, Ind. Overalls. No. 157,813; Aug. 15.
Ideal Bath Robe Co, Inc., Brooklyn, N. Y. Infants' bath robes. No. 157,687; Aug. 15.
Industrial Materials Co, Inc., New York, N. Y. Foldable dining tables and stools. No. 157,688; Aug. 15.
International Braid Company, Providence, R. I. Shoe lacings, corset lacings, galloons, and braids. No. 157,689; Aug. 15.
International Federation of Technical Engineers', Architects', and Draftsmen's Unions, Washington, D. C. Pamphlets, books, circulars, prints, drawings, etc. No. 157,691; Aug. 15.
Iowa Soap Company, Burlington, Iowa. Laundry soap. No. 157,690; Aug. 15.
Jameson, W. H., Corona, Calif. Fresh oranges, lemons, grapefruit, and tangerines. No. 157,692; Aug. 15.
Jennings-Sherry Company, Los Angeles, Calif. Certain cleansers, toilet and laundry soaps, and metal polish. No. 157,693; Aug. 15.
Johnson & Johnson, New Brunswick, N. J. Toilet soap in liquid and solid form. No. 157,694; Aug. 15.
Jordan Marsh Company, Boston, Mass. Hooks and eyes. No. 157,695; Aug. 15.
Julian & Kokenge Co., The, Cincinnati, Ohio. Shoes of leather, fabric, and combined fabric and leather. No. 157,696; Aug. 15.
Klar, Adolph, New York, N. Y. Hair nets. No. 157,697; Aug. 15.
Klothes Shoppe, Birmingham, Ala., and Louisville, Ky. Men's, youths', and boys' coats, vests, trousers, and overcoats, men's hats, women's suits, etc. No. 157,814; Aug. 15.

Kohlhaas, John V., Philadelphia, Pa. Monthly magazine. No. 157,698; Aug. 15.
Kohnstamm, H., & Co., New York, N. Y., assignor to H. Kohnstamm & Co., Inc. Soap. No. 157,699; Aug. 15.
Knitwear Mfg. Co. Inc., New York, N. Y. Sweaters. No. 157,815; Aug. 15.
Knothe Brothers Co., Inc., New York, N. Y. Waist belts. No. 157,816; Aug. 15.
Komada, Tomisaburo, Yokohama, Japan. Canned and bottled crab. Nos. 157,700–1; Aug. 15.
Krank, A. J., Manufacturing Company, St. Paul, Minn. Shaving cream. No. 157,817; Aug. 15.
Lace Net Importing Co., New York, N. Y. Fancy laces in the piece. No. 157,702; Aug. 15.
Lawndale Wholesale Grocery Co., Chicago, Ill. Canned tomatoes. No. 157,703; Aug. 15.
Loose Wiles Biscuit Company, Long Island City, N. Y. Cakes, wafers, crackers, biscuits. No. 157,704; Aug. 15.
Lorraine Mfg. and Importing Company, Grand Haven, Mich. Hair nets. No. 157,705; Aug. 15.
Lottman, C. F., & Sons, Houston, Tex. Mattresses. No. 157,706; Aug. 15.
M. & N. Co., The, Washington, D. C. Glove-cleaning soaps. No. 157,708; Aug. 15.
Manufacturing Company of America, Philadelphia, Pa. Candy. No. 157,709; Aug. 15.
Mathews, E. L., Candy Company, Wilmington, N. C. Candy. No. 157,710; Aug. 15.
Medicraft Company, The, Cleveland, Ohio. Soap. No. 157,711; Aug. 15.
Medcraft, Charles H., San Francisco, Calif. Series of cartoons. No. 157,712; Aug. 15.
Memphis Packing Corporation, Memphis, Tenn. Smoked meats and lard. No. 157,713; Aug. 15.
Merrell-Soule Company, Syracuse, N. Y. Powdered milk. No. 157,714; Aug. 15.
Merriam, G. & C., Company, Springfield, Mass. Books, more particularly dictionaries. Nos. 157,818–23; Aug. 15.
Metz, Herman A., New York, N. Y. Artificially-compounded food supplement for children and invalids. No. 157,715; Aug. 15.
Michaels, John, Montreal, Quebec, Canada. Desks, studio tables, stands, and easels. No. 157,716; Aug. 15.
Mifflin Chemical Corporation, Philadelphia, Pa. Antiseptic preparation. No. 157,824; Aug. 15.
Miller Laboratories, Inc., Washington, D. C. Shaving-soap cream. No. 157,825; Aug. 15.
Monk, George B., San Francisco, Calif. Magazine published at varying intervals. No. 157,717; Aug. 15.
Montague, W. R., Company, The, La Crosse, Wis. Chocolate-covered nut bar. No. 157,718; Aug. 15.
Morton Sundour Fabrics Ltd., Dentonhill, Carlisle, England. Cotton piece goods. No. 157,719; Aug. 15.
Muller and Phipps (Asia) Limited, New York, N. Y. Hairpins and safety pins. No. 157,720; Aug. 15.
Naamlooze Vennootschap Maatschappij voor Wasverwerking, Amsterdam, Netherlands. Boot polish of all kinds. No. 157,721; Aug. 15.
National Glove Co., Columbus, Ohio. Leather and fabric gloves. No. 157,826; Aug. 15.
National Poultry Institute, Inc., The, Baltimore, Md., and Washington, D. C. Lesson books, and catalogues issued semiannually. No. 157,722; Aug. 15.
Nestlé's Food Company, Inc., New York, N. Y. Ice cream. No. 157,724; Aug. 15.
Nestlé's Food Company, Inc., New York, N. Y. No. 157,724; Aug. 15.
Northern Jobbing Company, Chicago, Ill. Certain soaps and antiseptic cleansing powder. No. 157,725; Aug. 15.
Norwich Pharmacal Company, The, Norwich, N. Y. Monthly publication. No. 157,726; Aug. 15.
Nunnally Company, The, Atlanta, Ga. Candy. No. 157,727; Aug. 15.
Nunner and Ashton Company, The, Cincinnati, Ohio. Certain household and office furniture. No. 157,728; Aug. 15.
Nutter, Edgar, Portland, Me. Shoe and leather dressing. No. 157,729; Aug. 15.
O'Leary, John J., Buffalo, N. Y. Cleaning composition. No. 157,827; Aug. 15.
Omaha Flour Mills Co., Omaha, Nebr. Wheat flour. No. 157,730; Aug. 15.
Orr, James, & Sons, Limited, Manchester, England. Cotton voile cloths. No. 157,731; Aug. 15.
Ovington Bros. Company, New York, N. Y. Certain household furniture. No. 157,732; Aug. 15.
Ovington Bros. Company, New York, N. Y. Cleaning and polishing materials for jewelry, metal ware, and precious-metal ware. No. 157,733; Aug. 15.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 157,734; Aug. 15.
Pacific Novelty Company, New York, N. Y. Hairpins, combs, barrettes, and hair ornaments. No. 157,828; Aug. 15.
Paige Hat Co. Inc., New York, N. Y. Ladies' hats. No. 157,829; Aug. 15.
Palmer Photoplay Corporation, Los Angeles, Calif. Books, pamphlets, and circulars devoted to photoplay information, etc. No. 157,735; Aug. 15.
Palmer Photoplay Corporation, Los Angeles, Calif. Monthly magazine devoted to the interests of photoplay authors. No. 157,736; Aug. 15.
Palmer, William T., & Company, Inc., New York, N. Y. Elastic. No. 157,737; Aug. 15.
Papazian, Alexander, New York, N. Y. Soaps. No. 157,738; Aug. 15.
Paristyle Novelty Co. Inc., New York, N. Y. Hair nets. No. 157,739; Aug. 15.
Passaic Print Works, Passaic, N. J. Cotton piece goods. Nos. 157,740–1; Aug. 15.
Penn Leather Preserving Co., Pittsburgh, Pa. Compound for preserving and waterproofing shoes and leather. No. 157,742; Aug. 15.
Pioneer Manufacturing Company, The, Cleveland, Ohio. Sweeping compound. No. 157,743; Aug. 15.
Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 157,744; Aug. 15.
Poix, G. M., Inc., Brooklyn, N. Y. Brassières. No. 157,830; Aug. 15.
Quaker City Chocolate & Confectionery Company, Philadelphia, Pa. Hard and soft candies and chocolates. No. 157,745; Aug. 15.
Quaker Lace Company, Philadelphia, Pa. Lace curtains and nets or curtain lace in piece goods. No. 157,831; Aug. 15.
Rand McNally and Company, Chicago, Ill. Maps, atlases, miscellaneous books, magazines, etc. No. 157,707; Aug. 15.
Reliable Household Specialties Manufacturing Company. (See Bernstein, Samuel.)
Reliance Manufacturing Company, Chicago, Ill. Work shirts. No. 157,746; Aug. 15.
Re-Nu M Manufacturing Co., St. Louis, Mo. Belt dressing. No. 157,747; Aug. 15.
Reynolds, Arthur T., Brooklyn, N. Y. Mattresses. No. 157,748; Aug. 15.
Rice, Richard H., Cocoanut Grove, Fla. Fresh oranges, grapefruit, and tangerines. No. 157,749; Aug. 15.
Richardson, R. M., & Co., San Francisco, Calif. Candy. No. 157,750; Aug. 15.
Richman, J., & Co., New York, N. Y. Cotton, silk, and cotton and silk piece goods. No. 157,751; Aug. 15.
Robinson-Roders Co., Inc., The, Newark, N. J. Mattresses, pillows, bolsters, and cushions. No. 157,752; Aug. 15.
Roessel, Louis, & Co. Inc., New York, N. Y. Crêpe in the piece. No. 157,832; Aug. 15.
Rogers, John B., Producing Company, Fostoria, Ohio. Quarterly periodical. No. 157,753; Aug. 15.
Rolly Chemical Co., Hastings, Nebr. Soap flakes. No. 157,754; Aug. 15.
Rolly Chemical Co., Hastings, Nebr. Chemical dirt solvent in the nature of a washing powder. No. 157,755; Aug. 15.
Rosenthal, Fleischer & Cie., Goppingen, Germany. Corsets, corset covers, bodices, etc. No. 157,756; Aug. 15.
Rossano, G., & Bro., New York, N. Y. Olive oil. No. 157,767; Aug. 15.
Rubin, Samuel, Mount Vernon, N. Y. Brassières. No. 157,833; Aug. 15.
Rutland Fire Clay Co., Rutland, Vt. Liquid stove and metal polishes, enamel and waste-pipe cleaners. No. 157,758; Aug. 15.
Samstag & Hilder Bros., New York, N. Y. Hair nets. No. 157,759; Aug. 15.
Schoenblum, R., New York, N. Y. Hair nets. No. 157,760; Aug. 15.
Scher, Morris M., Baltimore, Md. Serge in the piece. No. 157,761; Aug. 15.
Sessum, B. L., Memphis, Tenn. Stock feed. No. 157,762; Aug. 15.
Seven Spas Soap Proprietary Coy., Limited, London, England. Antirheumatic medicated soap. No. 157,763; Aug. 15.
Shaffer, M., Company, Philadelphia, Pa. Toilet water. No. 157,835; Aug. 15.
Shaffer, M., Company, The, Philadelphia, Pa. Tonic for the scalp and hair. No. 157,834; Aug. 15.
Shapleigh Hardware Company, St. Louis, Mo. Catalogue published from time to time. No. 157,764; Aug. 15.
Shapleigh Hardware Company, St. Louis, Mo. Hones. No. 157,765; Aug. 15.
Silent Products Co., Irvington, N. J. Liquid chemical composition for cleaning windows and glassware. No. 157,766; Aug. 15.
Simons, Ernest, Mfg. Co., Port Chester, N. Y. Sheets and pillowcases. No. 157,767; Aug. 15.
Sioux Candy Co., Sioux City, Iowa. Chocolate candy. No. 157,768; Aug. 15.
Springville Canning Co., The, Springville, N. Y. Canned fruits and vegetables. No. 157,770; Aug. 15.
Stafford, S. S., Inc., New York, N. Y. Nonspatter type-cleaner. No. 157,771; Aug. 15.
Stahr, J. H., St. Louis, Mo. Metal polish. No. 157,772; Aug. 15.
Stevenson, W. N., & Co., Inc., New York, N. Y. Umbrellas and parasols. No. 157,773; Aug. 15.
Stoddard, G. S., & Co., Inc., New York, N. Y. Certain medicinal preparations. Nos. 157,836–8; Aug. 15.
Stoll, Horatio F., San Francisco, Calif. Monthly viticultural publication. No. 157,774; Aug. 15.
Stone, William O., Haverhill, Mass. Monthly publication. No. 157,776; Aug. 15.
Strehl, Alice D., Chicago, Ill. Human-hair goods. No. 157,775; Aug. 15.
Thompson's Spa, Boston, Mass. Candy confections, pastries, rolls, salads, table beverages, and other foods. No. 157,769; Aug. 15.
Tidyman, M., Racine, Wis. Candy. No. 157,777; Aug. 15.

Travieso, Emilio F., doing business as Emifertra Manufacturing Co., New York, N. Y. Soap flakes. No. 157,778; Aug. 15.
Treo Company, Inc., New York, N. Y. Elastic corsets. Nos. 157,779–82; Aug. 15.
Ukman, Max C., St. Louis, Mo. Seat pads or cushions. No. 157,783; Aug. 15.
United Chemical Products Company, Los Angeles, Calif. Washing compound. No. 157,784; Aug. 15.
Vivaudou, V., Inc., New York, N. Y. Soaps, shaving creams, powdered soap and shaving stick. No. 157,785; Aug. 15.
Vivaudou, V., Inc., New York, N. Y. Certain notions. No. 157,786; Aug. 15.
Vollmer, Roger H., trading as Estabita Cheese Company, Phoenixville, Pa. Cheese. No. 157,787; Aug. 15.
Wagner Manufacturing Company, Ardmore, Okla. Popcorn balls. No. 157,788; Aug. 15.
Waldes & Co., Inc., Long Island City, N. Y. Snap fasteners. No. 157,789; Aug. 15.
Walker Knitting Mills Inc., New York, N. Y. Silk, cotton, and woolen piece goods and a combination thereof. No. 157,790; Aug. 15.
Walker, W. & H., Inc., Pittsburgh, Pa. Soap. No. 157,791; Aug. 15.
Wallgren, Bengt, Dover, N. J. Stove polish. No. 157,839; Aug. 15.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Soaps. No. 157,792; Aug. 15.
Ward Baking Company, New York, N. Y. Bread. No. 157,793; Aug. 15.
Weber, Joseph, jr., Philadelphia, Pa., and Jackson, N. H. Certain medicinal preparations. No. 157,840; Aug. 15.
Webers, Milwaukee, Wis. Candy. No. 157,794; Aug. 15.
Wholesale Distributors Co., The, Chicago, Ill. Canned fruits, vegetables, and fish, tomato catchup, fruit preserves. No. 157,795; Aug. 15.
Wiswell, Albert G., Wilmington, Del. Soap. No. 157,841; Aug. 15.
Witt, Martin A., Los Angeles, Calif. Fruit and nut bars. No. 157,796; Aug. 15.
Woman's Institute of Domestic Arts & Sciences, Inc., Scranton, Pa. Periodical issued in the spring and fall of each year. No. 157,797; Aug. 15.
Woodward & Cochey, Inc., Lynn, Mass. Gimp braid for trimming automobile and furniture upholstery. No. 157,798; Aug. 15.
Woolley, Daniel P., New York, N. Y. Bread. No. 157,799; Aug. 15.
Wright, Commodore C., McLeansboro, Ill. Dressed poultry and eggs. No. 157,800; Aug. 15.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Anderson Paper & Twine Company, Altoona, Pa. "Mity-Nice." (For Wrappers for Toilet-Paper Rolls.) No. 24,868; Aug. 15.
Bryant Produce Company, Los Angeles, Calif. "Pimientillo." (For Tomatoes.) No. 24,869; Aug. 15.
Cohen, Charles, Bridgeport, Conn. "Sanitary Milk Bottle Holder." (For Covers for Milk-Bottle Holders.) No. 24,870; Aug. 15.
Dewey, Edward B., doing business as Falcon Products Inc., Brooklyn, N. Y. "Falcon." (For Packages and Boxes Containing Hairpins.) No. 24,871; Aug. 15.
Dunbar Molasses & Syrup Co., New Orleans, La. "Dunbar's Pitcher Molasses." (For Molasses.) No. 24,872; Aug. 15.
Falcon Products Inc. (See Dewey, Edward B.)
Farney, George W., doing business as Farney Trufood Company, Morris Plains, N. J. "Trufood." (For Breakfast Cereal.) No. 24,873; Aug. 15.
Farney Trufood Company. (See Farney, George W.)
Fort Howard Paper Company, Green Bay, Wis. "Van-Guard." (For Toilet Paper.) No. 24,874; Aug. 15.
Henry-Brown Company Inc., Glendale, Calif. "Scotch Mist." (For a Beverage.) No. 24,875; Aug. 15.
Hynd, A. C., doing business as A. C. Hynd Co., Buffalo, N. Y. "A. C. Hynd's Hair-She-En." (For Bottles and Cartons and Packages Containing the Product Called by Said Name.) No. 24,876; Aug. 15.
Hynd, A. C., doing business as A. C. Hynd Co., Buffalo, N. Y. "A. C. Hynd's Hygienic Hair Life." (For Bottles and Cartons and Packages Containing the Product Called by Said Name.) No. 24,877; Aug. 15.
Liberty Paper Co., New York, N. Y. "Handy Andy." (For Sealing Tape.) No. 24,878; Aug. 15.
Massachusetts Baking Company, Hartford, Conn., and Springfield, Mass. "White Rose." (For Bread.) No. 24,879; Aug. 15.
Mutual Supply Co., San Francisco, Calif. "Rose Bud Brand Extra Fancy Basket Fired Japan Tea." (For Tea.) No. 24,880; Aug. 15.
Mutual Supply Co., San Francisco, Calif. "Poppy Brand Extra Choicest Basket Fired Japan Tea." (For Tea.) No. 24,881; Aug. 15.
Prince, H. G., & Co., Oakland, Calif. "H. G. Prince & Co.'s Finest." (For Fruit Salad.) No. 24,882; Aug. 15.
Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Super-Service Socks." (For Hose.) Nos. 24,883–4; Aug. 15.
Schulze Baking Company, Chicago, Ill. "Silver Cake." (For Cake.) No. 24,885; Aug. 15.
Schulze Baking Company, Chicago, Ill. "Golden Cake." (For Cake.) No. 24,886; Aug. 15.
Schulze Baking Company, Chicago, Ill. "Fruit Cake." (For Cake.) No. 24,887; Aug. 15.
Schulze Baking Company, Chicago, Ill. "Raisin Cake." (For Cake.) No. 24,888; Aug. 15.
Schulze Baking Company, Chicago, Ill. "Chocolate Cake." (For Cake.) No. 24,889; Aug. 15.
Schulze Baking Company, Chicago, Ill. "Marshmallow Layer Cake." (For Cake.) No. 24,890; Aug. 15.
Schulze Baking Company, Chicago, Ill. "Maple Nut Cake." (For Cake.) No. 24,891; Aug. 15.
Schulze Baking Company, Chicago, Ill. "Tru-Torten Cake." (For Cake.) No. 24,892; Aug. 15.
Schulze Baking Company, Chicago, Ill. "Schulze Quality Products." (For Bakery Products, Such as Bread, Doughnuts, Biscuit, and Cake.) No. 24,893; Aug. 15.
Shawmut Mills, Holliston, Mass. "Hampshire Maid Bread." (For Bread.) No. 24,894; Aug. 15.
Shawmut Mills, Holliston, Mass. "Tommy Tucker Bread." (For Bread.) No. 24,895; Aug. 15.
Sheffield Pharmacal Co., Chicago, Ill. "Nul." (For a Preparation for Checking Perspiration.) No. 24,896; Aug. 15.
Skookum Packers Association, Wenatchee, Wash. "Satisfactoree." (For Apples.) No. 24,897; Aug. 15.
Smucker, J. M., Co., The, Orrville, Ohio. "Smucker's Pure Apple Butter." (For Apple Butter.) No. 24,898; Aug. 15.
Thompson & Company, Tampa, Fla. "Thompson & Company." (For Cigars.) No. 24,899; Aug. 15.
Western New York Fruit Growers Co-Operative Packing Ass'n, Inc., Rochester, N. Y. "Yorkwin." (For Fresh Fruit.) No. 24,900; Aug. 15.
Wright & Parker Co., Detroit, Mich. "Gold Chain." (For Egg Cartons.) No. 24,901; Aug. 15.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Beebler, William, Baltimore, Md. "Travella The Take-Down Umbrella Lessens Travel Worries." (For Advertising Purposes for Umbrellas.) No. 6,259; Aug. 15.
Cream of Wheat Co., Minneapolis, Minn. "'The Best Policy'." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,260; Aug. 15.
Eaton, Crane & Pike Company, Pittsfield, Mass. "Eaton's Highland Linen The Correct Writing Paper." (For Advertising Purposes for Eaton's Highland Linen.) No. 6,261; Aug. 15.
Heins, H. J., Co., Pittsburgh, Pa. "Heins Fruits and Vegetables are Grown in the Garden Spots of the World." (For Advertising Purposes for Heins 57 Varieties of Products.) No. 6,262; Aug. 15.
Krank, Alfred J., St. Paul, Minn. "Krank's Lemon Cleansing Cream." (For Advertising Purposes for a Cleansing Cream.) No. 6,263; Aug. 15.
Long, S. W., New York, N. Y. "Snap-On More than a Curtain Rod." (For Advertising Purposes for a Curtain Rod.) No. 6,264; Aug. 15.
Milwaukee Paper Box Company, Milwaukee, Wis. "Winner." (For Advertising Purposes for Candy Bars.) No. 6,265; Aug. 15.
Milwaukee Paper Box Company, Milwaukee, Wis. "Goody Cake." (For Advertising Purposes for Candy Bars.) No. 6,266; Aug. 15.
Milwaukee Paper Box Company, Milwaukee, Wis. "Perfection Peanut-Cream Bar." (For Advertising Purposes for a Peanut and Cream Bar.) No. 6,267; Aug. 15.
Nesmoht Sales Co. (See Thomsen, John H.)
Rice, Jerome B., Seed Co., Cambridge, N. Y. "Rice's Early Fortune Cucumber." (For Advertising Purposes for Cucumbers.) No. 6,268; Aug. 15.
Thomsen, John H., doing business as Nesmoht Sales Co., Omaha, Nebr. "The Last Word In Obstetrics." (For Advertising Purposes for Obstetrical Tables.) No. 6,269; Aug. 15.
U. S. Materials Co., Chicago, Ill. "Elastica." (For Advertising Purposes for an Exterior Wall Plaster or Stucco.) No. 6,270; Aug. 15.
U. S. Materials Co., Chicago, Ill. "Complete In a Sack." (For Advertising Purposes for "Elastica," an Exterior Wall Plaster or Stucco.) No. 6,271; Aug. 15.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A-C Manufacturing Co., Chicago, Ill. Automobile brakes and parts thereof. No. 158,745; Aug. 15.
A. W. Overall Company, The, Cleveland, Ohio. Overalls and work shirts. No. 155,233; Aug. 15.
Acme Abrasive Company, Chicago, Ill. Grinding and polishing stones. No. 161,021; Aug. 15.
Agasote Millboard Co., The, Trenton, N. J. Fiber board sold in sheets. No. 158,170; Aug. 15.
Alameda Sugar Company. (See Union Sugar Company.)
Albers Bros. Milling Co., San Francisco, Calif. Stock feed. No. 142,002; Aug. 15.
Alkitone Tooth Paste Company. (See Hathaway, John A.)
Allen-Bradley Company, Milwaukee, Wis. Electrical controlling devices of the compression-resistor type. No. 165,657; Aug. 15.
Allison-Bedford Co., Chicago, Ill. Preserved fruit and mincemeat, fruit preserves, jams, marmalades, etc. No. 151,605; Aug. 15.
Alpine Chocolates Company, Boston, Mass. Candy. No. 146,680; Aug. 15.
American Motor Chemical Corporation, Los Angeles, Calif. Automobile top dressing, mohair dressing, and windshield-vision preparation. No. 151,648; Aug. 15.
American Radiator Company, East Orange, N. J., and Chicago, Ill. Plain thermostats and clock thermostats. No. 132,771; Aug. 15.
American Releasing Corporation, New York, N. Y. Motion-picture films. No. 160,920; Aug. 15.
Anaheim Sugar Company, Inc., Los Angeles, Calif. Sugar. No. 156,512; Aug. 15.
Anderson, Kate E., Baltimore, Md. Photographic prints. No. 163,560; Aug. 15.
Argus Manufacturing Company, The, Cleveland, Ohio. Roofing cement, joint cement, and concrete hardener. No. 158,812; Aug. 15.
Armand Company, The, Des Moines, Iowa. Hair nets. No. 163,305; Aug. 15.
"Associates," The, New York, N. Y. Biweekly publications. No. 162,794; Aug. 15.
Auto Specialties Manufacturing Co., San Francisco, Calif., and St. Joseph, Mich. Jacks. No. 155,795; Aug. 15.
Avenarius, R., & Co., Stuttgart, Germany. Preserving paint. No. 144,059; Aug. 15.
Bachmeyer-Lutmer Press Company, The, Cincinnati, Ohio. Pamphlet published monthly. No. 161,872; Aug. 15.
Bachrach, Incorporated, Washington, D. C. Photographs, prints, and publications. No. 158,700; Aug. 15.
Baltimore Optical Company, Baltimore, Md. Ophthalmic lenses. No. 161,108; Aug. 15.
Barnett, Effie M., Pasadena, Calif. Preparation for growing hair. No. 159,681; Aug. 15.
Bates Engineering Company, The, Liverpool, England. Baking machines and parts of machines for making wafer biscuits, etc. No. 156,559; Aug. 15.
Beaumont, S., & Fils, Roubaix, France. Hairpins. No. 160,382; Aug. 15.
Beaver, Hermann L., Philadelphia, Pa. Polishing or burnishing material for metal parts, consisting of small polished-steel globules. No. 162,332; Aug. 15.
Behrens, E. H., Co., Inc., New York, N. Y. Drapery fabrics, draperies, piece goods. No. 164,303; Aug. 15.
Beidler, George C., Chicago, Ill. Candies. No. 151,033; Aug. 15.
Bergman Specialty Co., New York, N. Y. Plumbers' soil. No. 159,242; Aug. 15.
Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Self-rising wheat flour. No. 152,944; Aug. 15.
Bernstein & Shulman, New York, N. Y. Misses' suits and dresses. No. 145,934; Aug. 15.
Biberman Brothers, Inc., Philadelphia, Pa. Children's dresses, middy blouses, shirt waists, and skirts. No. 158,752; Aug. 15.
Blankman, Bernard, Brooklyn, N. Y. Parlor table game. No. 154,115; Aug. 15.
Bond Manufacturing Corporation, Wilmington, Del. Gun wads. No. 166,633; Aug. 15.
Boston Detachable Point Pick Co., Boston, Mass. Pick heads. No. 159,557; Aug. 15.
Boston Molasses Company, Boston, Mass. Molasses. No. 158,213; Aug. 15.
Bradas & Gheens. (See Gheens, C. Edwin.)
Braly, N. B., Butte, Mont. Coal. Nos. 148,054–5; Aug. 15.
Bredar, Jos. L., Rock Island, Ill. Shims. No. 159,555; Aug. 15.
Bright, John, Shoe Stores Co., Bridgewater, Mass. Leather boots and shoes. No. 160,653; Aug. 15.
Brohman Company, New York, N. Y. Children's dresses. No. 152,910; Aug. 15.
Brouwer, S. J., Shoe Company, Milwaukee, Wis. Shoes of leather and cloth and leather. No. 149,119; Aug. 15.
Brown & Silverman, New York, N. Y. Women's silk and muslin underwear. No. 148,419; Aug. 15.
Brown-Freeman Company, The, Boston, Mass. Women's undergarments commercially known as camisoles, bloomers, gowns, envelopes, vests, etc. No. 155,479; Aug. 15.
Butterick Publishing Company, The, New York, N. Y. Monthly periodical. No. 164,747; Aug. 15.
Cable, John E., doing business as Edison Rubber Co., Akron, Ohio. Slabs and sheets of rubber composition material particularly for shoe soles. No. 160,660; Aug. 15.
Cahill Shoe Company, The, Cincinnati, Ohio. Mens', women's, and children's boots, shoes, and slippers. No. 159,742; Aug. 15.
Champion Radio Co., Detroit, Mich. Radio telephone jacks and plugs, and radio bulb sockets. No. 164,800; Aug. 15.
Chesebrough Manufacturing Co. Consolidated, New York, N. Y. Petroleum jelly. No. 160,996; Aug. 15.
Chicago Soap Products Company, Chicago, Ill. Soap flakes. No. 163,499; Aug. 15.
Chmiell, John, Co., Boston, Mass. Beverages made of fruit juices and sold as soft drinks and sirups for making same. No. 132,426; Aug. 15.
Chocolate Products Co., Baltimore, Md. Candy composed wholly or in part of chocolate. No. 158,111; Aug. 15.
City Dairies Company, The, St. Louis, Mo. Ice cream. No. 159,235; Aug. 15.
Clark, W. N., Company, Rochester, N. Y. Canned blackberries, raspberries, gooseberries, pineapple, peaches, plums, etc. No. 158,222; Aug. 15.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Coast Products Company, The, St. Louis, Mo. Canned fruits, vegetables, fish, crab meat, molasses, mincemeat, and pickles. No. 115,242; Aug. 15.
Cohen, I. & B., Bomzon Co. Inc., New York, N. Y. Men's and youths' suits, pants, trousers, coats, and vests. No. 155,214; Aug. 15.
Commercial Union of America, Incorporated, New York, N. Y. Wheat flour. Nos. 154,431–2; Aug. 15.
Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 164,369; Aug. 15.
Cortland Line Co., Inc., Cortland, N. Y. Fishing lines. No. 164,388; Aug. 15.
Craddock, Terry Company, Lynchburg, Va. Women's and children's shoes of leather or a combination of leather, rubber, or fabric. No. 102,244; Aug. 15.
Cutler-Hammer Mfg. Co., The, Milwaukee, Wis. Attachment plugs. No. 163,035; Aug. 15.
Cutler-Magner Co., Duluth, Minn. Cement plaster, wood-fiber plaster, Portland cement, stucco, gypsum finish, plaster board, etc. No. 163,432; Aug. 15.
Cuzalina, Tony J., Hartshorne, Okla. Medicine for coughs and colds. No. 159,849; Aug. 15.
Dell Publishing Co., Inc., New York, N. Y. Magazine. No. 163,039; Aug. 15.
Detroit Insulated Wire Company, Detroit, Mich. Insulated wire. No. 166,046; Aug. 15.
De Witt-La France Co., Cambridge, Mass. Radio receiving sets and sending sets and parts thereof. No. 164,697; Aug. 15.
Digest Publishing Company, The, Cleveland, Ohio. Publication issued monthly. No. 131,785; Aug. 15.
Dodge, Cheever K., Mamaroneck, N. Y. Code-memorizing charts for radio beginners and for pamphlets and books relating to radiotelegraphy. No. 162,485; Aug. 15.
Doll-Craft Company, The. (See Levy, Maurice M.)
Dollar Knife Corporation, The, Atlanta, Ga. Pocketknives. No. 158,671; Aug. 15.
Doran, James H., Washington, D. C. Candies. No. 158,825; Aug. 15.
Doughten Seed Company, Jersey City, N. J. Field and grass seeds. No. 147,715; Aug. 15.
Dubilier Condenser & Radio Corporation, New York, N. Y. Electrical apparatus more particularly for condensers for radio telephone and telegraph purposes. No. 165,623; Aug. 15.
Dubilier Condenser Co., Inc., New York, N. Y. Electrical condensers. No. 163,036; Aug. 15.
Dudley Gum Company, Nashville, Tenn. Chewing gum. No. 154,966; Aug. 15.
Duffy-Mott Company, Inc., New York, N. Y. Ciders and fruit juices. No. 165,066; Aug. 15.
Duffy-Mott Company, Inc., New York, N. Y. Ciders. No. 165,069; Aug. 15.
Duffy-Mott Company, Inc., New York, N. Y. Ciders. No. 165,071; Aug. 15.
Duffy-Mott Company, Inc., New York, N. Y. Ciders. No. 165,073; Aug. 15.
Duffy-Mott Company, Inc., New York, N. Y. Ciders. No. 165,075; Aug. 15.
Durkee-Atwood Co., Minneapolis, Minn. Power-transmitting belts of fabric, rubberized fabric, or leather composition. No. 140,431; Aug. 15.
Eagle Rubber Co., The, Ashland, Ohio. Toy balloons. No. 164,311; Aug. 15.
Earl & Wilson, Troy, N. Y. Negligee and dress shirts and waistcoats. No. 159,413; Aug. 15.
Edison Rubber Co. (See Cable, John E.)
Edson Brothers, Philadelphia, Pa. Olive oil. No. 135,320; Aug. 15.
Ekstrom, Anton I., Rockford, Ill. Puzzles characterized by a plurality of blocks having numerals or characters. No. 147,770; Aug. 15.
Electro Alloys Company, The, Elyria, Ohio. High-temperature metal castings. No. 160,004; Aug. 15.
Ellowitz, Wolf, New York, N. Y. Powder puffs. No. 161,530; Aug. 15.
Elwood Myers Co., The, Springfield, Ohio. Leather novelties. No. 157,674; Aug. 15.
Emans, Theodore F., Chicago, Ill. Men's, women's, misses', and children's shoes. No. 160,285; Aug. 15.
Endicott Johnson Corporation, Endicott, N. Y. Leather shoes. No. 161,308; Aug. 15.
F & W Manufacturing Company, Fresno, Calif. Windshield visors. No. 153,394; Aug. 15.
Faultless Rubber Company, The, Ashland, Ohio. Golf balls. No. 165,233; Aug. 15.
Fish, Frank M., Beloit, Wis. Locks for automobiles. No. 151,453; Aug. 15.
Foote-Burt Company, The, Cleveland, Ohio. Single-spindle drilling machines, multiple-spindle drilling machines, etc. No. 160,241; Aug. 15.
Foote, Jane, Binghamton, N. Y. Women's dresses. No. 149,584; Aug. 15.
Frasar, Everett W., San Francisco, Calif. Walnut meats and peanuts in their natural state. No. 156,365; Aug. 15.
Friedman Brothers, Inc., Council Bluffs, Iowa. Overalls, jackets, work shirts and caps, dust coats, auto coats, etc. No. 139,457; Aug. 15.
Fuller Brush Company, The, Hartford, Conn. Periodical published monthly. No. 163,624; Aug. 15.
Fuller, Emil, New York, N. Y. Powder puffs. No. 164,700; Aug. 15.
G. & C. Merriam Company, Springfield, Mass. Dictionaries which are published from time to time. No. 162,831; Aug. 15.
Gabay, Elia, & Co., New York, N. Y. Beverages sold as soft drinks. No. 165,442; Aug. 15.
Gebruder Joost, Langnau, Switzerland. Cheese and preserved cheese. No. 154,652; Aug. 15.
General Laboratories, The, Atlanta, Ga. Liquid tonic containing vitamines and medicinal properties. No. 153,841; Aug. 15.
General Radio Manufacturing Company. (See Roseman, Frank A.)
General Railway Signal Company, Rochester, N. Y. Metal forgings and analogous metal manufactures. No. 161,311; Aug. 15.
Gevaert Photo Produkten, Oude-God, near Antwerp, Netherlands. Cameras, photographic films on spools, filmpacks, etc. Nos. 158,861–3; Aug. 15.
Gheens, C. Edwin, doing business as Bradas & Gheens, Louisville, Ky. Candles. No. 155,749; Aug. 15.
Glemby's, S., Sons Co. Inc., New York, N. Y. Powder puffs. No. 164,426; Aug. 15.
Gold Mark Knitting Co., Woonsocket, R. I. Clothing. No. 156,897; Aug. 15.
Goldberg, Eli F., Rochester, N. Y. Dental syringes. No. 146,432; Aug. 15.
Goldenberg's, Washington, D. C. Fabric gloves. No. 154,141; Aug. 15.
Gomes & Sloan, Inc., New York, N. Y. Antifriction metal, solder, machinery parts made of castings, and rails. No. 153,401; Aug. 15.
Governor Fastener Company, The, New York, N. Y. Belts, belting, and elastics. No. 155,018; Aug. 15.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Beans and pork, canned fruits. No. 126,316; Aug. 15.
Greek Confectioner Publishing Co., The, Chicago, Ill. Monthly publication. No. 165,492; Aug. 15.
Green, Anna B., Yoakum, Tex. Remedies for the treatment of colds, sore throat, headache, stiff joints, etc. No. 161,357; Aug. 15.
Greenwald, Friedman & Co., New York, N. Y. Tailor-made dresses. No. 158,387; Aug. 15.
Hatfield & Bell, Brooklyn, N. Y. Ginger ale, lemon soda, and sarsaparilla. No. 164,164; Aug. 15.
Hathaway, John A., doing business as Alkitone Tooth Paste Company. Tooth paste. No. 157,097; Aug. 15.
Hayes & Maserole Manufacturing Company, Milford, Conn. Hair wavers. No. 162,437; Aug. 15.
Hayn, William F., doing business as Vi-Tanika Pharmacal Company, Dayton, Ohio. Pharmaceutical preparations. No. 161,313; Aug. 15.
Heath, Mary, Company, The, St. Louis, Mo. Marshmallow and chocolate creams. No. 158,041; Aug. 15.
Heating and Ventilating Magazine Co., New York, N. Y. Monthly magazine. No. 162,337; Aug. 15.
Hennessy, Roland B., doing business as Radio World Company, New York, N. Y. Weeky publication. No. 164,249; Aug. 15.
Hess, Horace H., Pine Grove, Pa. Textile-fabric underwear. No. 160,062; Aug. 15.
Heuser, Anna, Paterson, N. J. Women's closed drawers. No. 158,184; Aug. 15.
Hicks Candy Kitchen. (See Hicks, William A.)
Hicks, William A., doing business as Hicks Candy Kitchen, Chicago, Ill. Candy. No. 158,527; Aug. 15.
Hirsch Brothers Company, Chicago, Ill. Whip powder. No. 157,924; Aug. 15.
Hudson Motor Specialties Company, Philadelphia, Pa. Transmission or crank-casing parts. No. 158,773; Aug. 15.
Hunt, J. Roy, Inc., Long Island City and Astoria, N. Y. Radio-tube mounting. No. 164,438; Aug. 15.
Hunterdon Garage and Machine Shop. (See Prehn, Ernest.)
Hurty-Peck & Company, Indianapolis, Ind. Beverage sold as a soft drink and sirups for making same. No. 145,896; Aug. 15.
Hutmacher Braiding Company, The, Paterson, N. J. Shoe laces. No. 156,629; Aug. 15.
Independent Breweries Company, The, St. Louis, Mo. Beverages sold as soft drinks and sirups used in preparation of the same. No. 165,381; Aug. 15.
International Sugar Feed Co., Minneapolis, Minn. Poultry feed, scratch size. No. 117,492; Aug. 15.
Jaffe, Feingold & Wiener, New York, N. Y. Men's clothing. No. 157,487; Aug. 15.
John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, or applying various liquids, etc. No. 139,768; Aug. 15.
John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, or applying various liquids, etc. No. 139,836; Aug. 15.

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John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for toilet use. No. 140,232; Aug. 15.
John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, or applying various liquids, etc. No. 140,368; Aug. 15.
Jones Store Co., The, Wilmington, Del., and Kansas City, Mo. Aluminum cooking utensils. No. 161,257; Aug. 15.
Jones Superior Machine Company, Chicago, Ill. Woodworking machinery—viz, saw tables, saw machines, band saws, etc. No. 158,930; Aug. 15.
Jordan Marsh Company, Boston, Mass. Carpet sweepers. No. 159,971; Aug. 15.
Justin, H. J., & Sons, Noxona, Tex. Leather boots and shoes. No. 161,555; Aug. 15.
Kammer & Reinhardt, A. G., Waltershausen, Germany. Toys and playthings. No. 163,681; Aug. 15.
Kanofsky, Raymond, doing business as Radio Builder Pub. Co., New York, N. Y. Magazines. No. 165,195; Aug. 15.
Kaufman Bros., New York, N. Y. Hair nets. No. 158,315; Aug. 15.
Ken-Wel Sporting Goods Company, Gloversville, N. Y. Combination package of boys' athletic goods. No. 164,924; Aug. 15.
Keystone Fruit Products Company, Cincinnati, Ohio. Beverages sold as soft drinks, flavors and extracts for making same. No. 143,500; Aug. 15.
Koch, Charles, Hoboken, N. J. Beverages sold as soft drinks and sirups for making the same. No. 165,446; Aug. 15.
Kulp, Lester, doing business as Mid-West Lamp Co., Chicago, Ill. Electric lamps. No. 165,961; Aug. 15.
Lafayette Brush & Manufacturing Co., Philadelphia, Pa. Dusting mops. No. 161,439; Aug. 15.
Lafayette Brush & Manufacturing Co., Philadelphia, Pa. Brushes and brooms. No. 162,259; Aug. 15.
Levy, Maurice M., doing business as The Doll-Craft Company, Brooklyn, N. Y. Dolls. No. 166,383; Aug. 15.
Lincoln Motor Company, Detroit, Mich. Lubricating oils and greases. No. 142,759; Aug. 15.
Lissenin Radio Parts Co. (See Rappaport, Louis S.)
Litit Co., The. (See Shoenberg, Milton H.)
Lohfeld, J. L., & Co. Inc., New York, N. Y. Wires for conducting electricity. No. 163,452; Aug. 15.
Louisville Furnishing Goods Co., Louisville, Ky. Overalls. No. 159,362; Aug. 15.
Louisville Times Company, The, Louisville, Ky. Afternoon paper published daily. No. 165,059; Aug. 15.
Lowman, Eugene M., Orangeburg, S. C. Nonalcoholic, maltless beverage sold as a soft drink. No. 150,151; Aug. 15.
Luporini Bros., New York, N. Y. Photographic films. No. 146,446; Aug. 15.
M. & M. Wood Working Co., Portland, Oreg. Stools. No. 142,157; Aug. 15.
McCreery, James, & Company, New York, N. Y. Picture frames and hand mirrors. No. 162,124; Aug. 15.
McKinney, Ralph A., Pittsburgh, Pa. Wireless receiving outfits in one complete unit inclosed in a cabinet. No. 163,453; Aug. 15.
MacDonald, John, & Son Limited, Glasgow, Scotland. Foundry molding machines. No. 159,425; Aug. 15.
Magnetic Drink Mixer Company, Boston, Mass. Electrical drink mixers. No. 163,642; Aug. 15.
Manning, Maxwell & Moore, Inc., New York, N. Y. Pressure, steam, hydraulic, Bourdon tube, etc., gauges. No. 157,934; Aug. 15.
Marshall Field & Company, Chicago, Ill. Bedspreads and pillow shams. No. 164,884; Aug. 15.
Marshall Field & Company, Chicago, Ill. Bedspreads and pillow shams. Nos. 164,886–7; Aug. 15.
Marshall Field & Company, Chicago, Ill. Bedspreads and pillow shams. Nos. 164,889–90; Aug. 15.
Meer, Joseph, Inc., New York, N. Y. Dolls. No. 161,442; Aug. 15.
Meirowsky Brothers, Jersey City, N. J. Electrical condensers. No. 165,198; Aug. 15.
Melyn Tin Plate Company Limited, The, Neath, Wales. Tin plates. Nos. 159,660–2; Aug. 15.
Methodist Child Welfare Society, New York, N. Y. Books, pamphlets, and like printed publications. No. 159,519; Aug. 15.
Meyer, John W., Brooklyn, N. Y. Candies. No. 156,969; Aug. 15.
Mid-West Lamp Co. (See Kulp, Lester.)
Millbury Steel Foundry Company, Millbury, Mass. Iron and steel castings. No. 118,233; Aug. 15.
Millinteria, Inc., Chicago, Ill. Millinery and other head gear, consisting of hats and bonnets. No. 158,881; Aug. 15.
Mirabene Chemical Co. (See Vickery, Amy L.)
Mirrorlike Mfg. Co., Long Island City, N. Y. Soap cleaners for the removal of spots and stains on fabrics and leather, etc. No. 162,129; Aug. 15.
Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Stains and finishes. No. 154,605; Aug. 15.
Mosell Manufacturing Company, New York, N. Y. Specially-treated cloths for cleaning silver and gold. No. 162,034; Aug. 15.
Müeller, Arthur, Bauten und Industriewerke, Johannisthal, near Berlin, Germany. Internal-combustion engines, steam engines, all kinds of agricultural machines, etc. No. 142,315; Aug. 15.
Natalie, Washington, D. C. Children's dresses. No. 159,385; Aug. 15.
National Drug Stores Corp., New York, N. Y. Assorted chocolates. No. 157,497; Aug. 15.
Neuss, Hesslein & Co. Inc., New York, N. Y. Woven cotton piece goods—namely, colored drills, flannels, dometts, and napped cotton goods. No. 165,880; Aug. 15.
Nifty Jar & Cooker Manufacturing Company, The, Cincinnati, Ohio. Cooking vessels, more particularly cookers. No. 157,843; Aug. 15.
Nitro-Bacter Soil Vaccine Corporation, Chicago, Ill. Liquid cultures of nitrifying bacteria. No. 142,265; Aug. 15.
"Old Bleach" Linen Company, Limited, The, Randalstown, Ireland. Linen and hemp goods, being goods in the piece. No. 133,488; Aug. 15.
Oliver E. Dé Ridder, Rochester, N. Y. Shoes made wholly of leather. No. 162,386; Aug. 15.
P. & M. Co., The, Chicago, Ill. Iron and steel castings and forgings, rail anticreepers, etc. No. 148,344; Aug. 15.
Pacent Electric Company, Incorporated, New York, N. Y. Electrical apparatus more particularly for connector plugs for radio telephone and similar purposes. No. 165,709; Aug. 15.
Packer Manufacturing Company Incorporated, The, New York, N. Y. Soap. No. 163,351; Aug. 15.
Palmer, William T., & Company, Inc., New York, N. Y. Hair nets. No. 160,629; Aug. 15.
Paxton & Gallagher Co., Omaha, Nebr. Canned vegetables and fruits. No. 157,948; Aug. 15.
Penney, J. C., Company, Salt Lake City, Utah. Bleached cotton muslin. No. 158,647; Aug. 15.
Phillipborn's, Inc., Chicago, Ill. Wool, cotton, or silk, or wool and cotton mixed, or silk and wool mixed, or silk and cotton mixed, and nainsook and linen underwear. No. 157,533; Aug. 15.
Pierce, F. O., Company, New York, N. Y. Varnishes, furniture, and automobile polishes, paint, pigment, and dry colors, etc. No. 142,295; Aug. 15.
Pogo-Werke G. m. b. H., Hanover, Germany. Sporting goods and toys. No. 157,595; Aug. 15.
Poland Soap Works, Anniston, Ala. Cleanser (abrasive) for cleaning tile, marble, etc. No. 162,049; Aug. 15.
Poland Soap Works, Anniston, Ala. Washing powder for cleaning anything that soap and water will clean. No. 162,850; Aug. 15.
Polustre Co., Philadelphia, Pa. Polishes and lacquers for articles of wood or metal. No. 157,006; Aug 15.
Potter, Raymond G., Worcester, N. Y. Liquid preparation designed to prevent automobile windshields from becoming coated with rain, snow, steam, or frost. No. 162,503; Aug. 15.
Poulos, George, Chicago, Ill. Concentrated maltless sirup to be used as a flavor in a nonalcoholic beverage. No. 160,256; Aug. 15.
Prehn, Ernest, doing business as Hunterdon Garage and Machine Shop, Newark, N. J. Brace for a running-board support, automobile wheels, rims, and tires. No. 156,656; Aug. 15.
Puritan Drug Mfg. Co., The, Columbus, Ohio. Sewing-machine oil. No. 146,652; Aug. 15.
Purity Beverage Company, Maywood, Ill. Nonalcoholic, maltless beverage sold as a soft drink. No. 163,108; Aug. 15.
Radio Builder Pub. Co. (See Kanofsky, Raymond.)
Radio Corporation of America, New York, N. Y. Electrical vacuum tubes and valves. Nos. 164,832–3; Aug. 15.
Radio World Company. (See Hennessy, Roland B.)
Radium Company of Colorado, The, Denver, Colo. Monthly medical journal. No. 159,107; Aug. 15.
Rappaport, Louis S., doing business as Lissenin Radio Parts Co., Ridgefield Park, N. J. Radio receiving sets. No. 164,117; Aug. 15.
Redman, Frank, New York, N. Y. Rubber heels for shoes. No. 161,385; Aug. 15.
Regina Swimming Devices Co., New York, N. Y. Swimming or bathing devices comprising body-supporting floats. No. 149,358; Aug. 15.
Reis, Robert, & Co., New York, N. Y. Running pants. No. 160,152; Aug. 15.
Reitman Mfg. Co., Chicago, Ill. Ready-to-make doll-clothes sets. No. 141,504; Aug. 15.
Riker Company, The, Newark, N. J. Belt buckles and buckles and clasps for shoes and slippers. No. 156,973; Aug. 15.
Riker Company, The, Newark, N. J. Belt buckles and buckles and clasps for shoes and slippers, embroidery and crochet needles, etc. No. 156,974; Aug. 15.
Roseman, Frank A., doing business as General Radio Manufacturing Company, Pittsburgh, Pa. Wireless antenna plug. No. 165,208; Aug. 15.
Rossell, J. D. (See Rossell, James D.)
Rossell, James D., doing business as J. D. Rossell, Peoria, Ill. Ice cream. No. 158,096; Aug. 15.
Russell Stover Company, Chicago, Ill. Ice cream and ice cream covered with chocolate. No. 158,455; Aug. 15.

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Salm, John, doing business as Salm Manufacturing Company, Torrance, Calif. Toilet articles showing mother-of-pearl handles for manicure articles. Nos. 143,963–4; Aug. 15.
Salm Manufacturing Company. (See Salm, John.)
Samson Cordage Works, Boston, Mass. Twine. No. 156,179; Aug. 15.
Schmidt, Chas. A., Instrument Company, St. Louis, Mo. Surgical instruments and hospital supplies. No. 149,602; Aug. 15.
Schwarzenbach Huber Co., West Hoboken, N. J., and New York, N. Y. Broad silks in the piece. No. 164,671; Aug. 15.
Searles, Herbert N., New York, N. Y. Coolers. No. 159,287; Aug. 15.
Seiss Manufacturing Company, The, Toledo, Ohio. Diaphragm horns. No. 166,206; Aug. 15.
Seligmann, Fred, Sequin, Tex. Ointment used in the treatment of eczema. No. 165,564; Aug. 15.
Seligmann, Fred, Sequin, Tex. Powder used in the treatment of eczema. No. 165,565; Aug. 15.
Service Tool Company, The, Newark, N. J. Files. No. 158,691; Aug. 15.
Shawmut Machine Works, Inc., doing business as Tremont Products Company, Boston, Mass. Electric socket and other switches. No. 157,113; Aug. 15.
Sheffield Mfg. Co., Burr Oak, Mich. Velocipedes. No. 165,425; Aug. 15.
Shepard, John W., Tucson, Ariz. Automobile wheel locks. No. 156,302; Aug. 15.
Shoenberg, Milton H., doing business as The Litit Co., San Francisco, Calif. Electric cigar lighter. No. 163,713; Aug. 15.
Silverman, M., & Son, Philadelphia, Pa. Cotton piece goods and woolen dress goods. No. 165,041; Aug. 15.
Singer Manufacturing Company, The, Elizabeth, N. J. Electric fans. No. 165,606; Aug. 15.
Skookum Packers Association, Seattle and Wenatchee, Wash. Monthly publication. No. 159,434; Aug. 15.
Smith, A. W., Shoe Company Boston, Mass. Boots and shoes of leather, rubber, and fabric. Nos. 160,158–9; Aug. 15.
Societe Anonyme des Anciens Etablissments Braunstein Freres, Paris, France. Cigarette paper. No. 152,190; Aug. 15.
Somerville Brush Company, Somerville, Mass. Mops, dusters, and household brushes. No. 163,544; Aug. 15.
Sopkin Brothers, Chicago, Ill. Aprons and apron dresses. No. 159,181; Aug. 15.
Spitz, Fannie S., Albuquerque, N. Mex. Shelled, raw, roasted, and salted piñon nuts. No. 159,433; Aug. 15.
Standard Oil Company of New York, New York, N. Y. Refined petroleum for illuminating, heating, and power purposes. No. 156,766; Aug. 15.
Standard Playing Card Co., Chicago, Ill. Playing cards. No. 166,325; Aug. 15.
Ste. An de Couleurs d'Aniline et Products Chimiques S. A. C. A., Brussels, Belgium. Chemicals and dyestuffs. No. 160,724; Aug. 15.
Steel Can't Steal Box Corporation, New York, N. Y. Safety boxes for valuables. No. 160,212; Aug. 15.
Stewart & Holmes Drug Co., Seattle, Wash. Tooth, hair, lather or shaving, and bath brushes. No. 163,190; Aug. 15.
Stewart Storage Battery Company, Marshfield, Wis. Storage batteries and storage-battery boxes and containers. No. 166,110; Aug. 15.
Strathmore Co-Operative Association, Strathmore, Calif. Fresh oranges. No. 157,962; Aug. 15.
Strawbridge & Clothier, Philadelphia, Pa. Men's, young men's, and boys' hats and caps. No. 159,817; Aug. 15.
Sturgis, Richard C., Boston, Mass. Hand fire fans for fanning open fires. No. 162,585; Aug. 15.
Style Center Tailoring Company, The, Cincinnati, Ohio. Men's and young men's clothing consisting of overcoats, raincoats, coats, vests, and trousers. No. 157,977; Aug. 15.
Taylor, John, Dry Gods Co., Kansas City, Mo. Package outfit containing a ready-cut garment stamped for embroidery and cotton for working the same. No. 161,598; Aug. 15.
Timson Bros. Inc., Boston, Mass. Shoes. No. 155,938; Aug. 15.
Tioga Mill & Elevator Co., Waverly, N. Y. Poultry feed. No. 152,814; Aug. 15.
Toch Brothers, New York, N. Y. Enamel paints. No. 157,504; Aug. 15.
Toohey, F. M., Drug Co., The, Chillicothe, Ohio. Pharmaceutical preparation. No. 158,342; Aug. 15.
Tophams, Washington, D. C. Trunks, chests in the nature of trunks, sample cases, etc. No. 156,976; Aug. 15.
Tremont Products Company. (See Shawmut Machine Works, Inc.)
Trestle Board, San Francisco, Calif. Monthly magazine. No. 163,718; Aug. 15.
Tubular Woven Fabric Company, Pawtucket, R. I. Electrical box connectors. No. 163,060; Aug. 15.
Turner, F. & H., Limited, Wallington, England, and Helmond, Netherlands. Cocoa and chocolate. No. 147,745; Aug. 15.
Ullman Manufacturing Co., The, New York, N. Y. Black and colored crayons and the labels of same used on the crayons and in boxes, receptacles, and packages containing the same. No. 163,904; Aug. 15.
Union Sugar Company, doing business as Alameda Sugar Company, San Francisco, Calif. Beet, cane, and maple sugar. No. 158,344; Aug. 15.
Unique Brass Foundry Company, Incorporated, Buffalo, N. Y. Electric storage batteries and parts thereof. No. 166,116; Aug. 15.
United States Paper Mills, Inc., Chambersburg, Pa., and New York, N. Y. Paper toweling and napkins. No. 165,573; Aug. 15.
United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. No. 166,023; Aug. 15.
United States Tire Company, New York, N. Y. Tubes for tires. No. 143,628; Aug. 15.
Vernart Manufacturing Corporation, New York, N. Y. Decorated slippers of felt or fabric. No. 150,171; Aug. 15.
Vi-Tanika Pharmacal Company. (See Hayn, William F.)
Vickery, Amy L., doing business as Mirabene Chemical Co., Chicago, Ill. Eye medicine. No. 161,463; Aug. 15.
Viles, Ralph K., Minneapolis, Minn. Bed shirts. No. 153,380; Aug. 15.
Wade, William H., Chicago, Ill. Stamping and marking devices for marking articles for sale. No. 159,907; Aug. 15.
Wallace Institute, Chicago, Ill. Talking-machine records. No. 161,712; Aug. 15.
Washington Laboratories, Inc., New York, N. Y. Disinfectants. No. 157,869; Aug. 15.
Wechsler Barber Silk Co., Inc., New York, N. Y. Silk and silk-mixture fabrics in the piece. No. 162,961; Aug. 15.
Western Bottle Manufacturing Company, Chicago, Ill. Powder puffs. No. 165,974; Aug. 15.
Western Fruit Products Co., Dubuque, Iowa. Nonalcoholic, maltless fruit-juice beverage. No. 165,469; Aug. 15.
Western Hair Company, Spokane, Wash. Face powder, lavender lotion, bleaching lotion, peroxide, etc. No. 152,112; Aug. 15.
Western Machinery World, San Francisco, Calif. Monthly magazine. No. 163,423; Aug. 15.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio telephone and telegraph loud speakers and amplifiers. No. 165,321; Aug. 15.
Westinghouse Union Battery Co., Swissvale, Pa. Secondary batteries and connectors therefor and battery charges. No. 165,433; Aug. 15.
White Bros. & Crum Co., Lewiston, Idaho. Fresh deciduous fruits. No. 158,350; Aug. 15.
White, Phil H., Brooklyn, N. Y. Material used for cleaning glass panes or the like. No. 155,849; Aug. 15.
White, R. H., Company, Boston, Mass. Corsets, brassières, hats, caps, and women's and children's dresses and waists. No. 159,071; Aug. 15.
Wiener & Bieber, San Francisco, Calif. Candies. No. 152,148; Aug. 15.
Wilcox, M. I., Company, The, Toledo, Ohio. Dry, paste, and ready mixed paints and putty. No. 157,198; Aug. 15.
Williams, J. D., Inc., Brooklyn, N. Y. Raw skins and furs. No. 160,782; Aug. 15.
Winberg Druggists' Supply Co. (See Winberg, W. Wm.)
Winberg, W. Wm., doing business as The Winberg Druggists' Supply Co., Wilmette, Ill. Nasal douche. No. 145,382; Aug. 15.
Woolf, Jesse. Co., New York, N. Y. Frocks. No. 145,297; Aug. 15.
Worcester Pressed Aluminum Company, Worcester, Mass. Hot-water bottles, fountain syringes, and combination water bottles and fountain syringes. No. 143,305; Aug. 15.
Worrell, Lola, New York, N. Y. Dolls. No. 166,336; Aug. 15.
York Mfg. Co., Saco, Me., and Boston, Mass. Cotton piece goods. No. 163,558; Aug. 15.
Young, Frederick H., & Co. (See Young, Frederick H.)
Young, Frederick H., doing business as Frederick H. Young & Co., Toledo, Ohio. Soaps. No. 162,090; Aug. 15.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF AUGUST, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acids, Producing organic. A. F. Odell. No. 1,425,605; Aug. 15.
Addressing and listing device, Combined. M. Hartman. No. 1,425,768; Aug. 15.
Adjustable brace. A. Bengtson. No. 1,426,247; Aug. 15.
Adjustable holder. A. H. Carlson. (Reissue.) No. 15,431; Aug. 15.
Advertising device. R. M. Finger and D. W. Liles. No. 1,425,758; Aug. 15.
Advertising novelty. J. J. Donovan. No. 1,425,513; Aug. 15.
Air-brake system. J. H. Hanlon. No. 1,426,061; Aug. 15.
Air cleaner, Wet-filter. H. H. Garner. No. 1,426,177; Aug. 15.
Air compressor. J. Stanis. No. 1,426,325; Aug. 15.
Air heater. T. H. Monaghan. No. 1,425,674; Aug. 15.
Air lines and the like, Fitting for. L. W. Greve. No. 1,425,642; Aug. 15.
Air moistener. C. E. Sallada. No. 1,425,608; Aug. 15.
Air moistener and dust arrester. M. A. Garrett. No. 1,426,286; Aug. 15.
Aircraft, Fall-checking device for. A. Zeitlin. No. 1,426,331; Aug. 15.
Airship. C. J. Cooke. No. 1,426,047; Aug. 15.
Airship. C. D. Thompson. No. 1,425,555; Aug. 15.
Airships, Shed for. B. Kannenberg. No. 1,426,197; Aug. 15.
Alarm: *See*—
Burglar alarm.
Alloy and making same, Zirconium. F. M. Becket. No. 1,425,572; Aug. 15.
Aluminum chloride from heavy hydrocarbon, Separating. C. O. Hoover. No. 1,426,081; Aug. 15.
Ammunition hoist. H. Techel. No. 1,425,916; Aug. 15.
Anchor, Fence. I. E. Clum. No. 1,426,044; Aug. 15.
Animal catcher. F. Sajtar. No. 1,426,220; Aug. 15.
Antimony trichloride, Preparing aqueous solutions of. C. E. Williams. No. 1,425,565; Aug. 15.
Aromatic compounds containing carbonyl groups with trivalent arsenic, Producing new. A. Albert. No. 1,425,931; Aug. 15.
Arsenic compounds, Derivatives of organic. A. Albert. No. 1,425,929; Aug. 15.
Arsenic oxides or arsenobenzols, Manufacturing new. A. Albert. No. 1,425,930; Aug. 15.
Auto theft signal. J. H. Southard. No. 1,426,119; Aug. 15.
Automatic gate. T. E. Harrington. No. 1,426,062; Aug. 15.
Automobile cradle. A. Jakovleff. No. 1,425,859; Aug. 15.
Automobile direction indicators, Switch for. J. E. Holmgren. No. 1,426,193; Aug. 15.
Automobile door, Canopied. P. A. Fischer. No. 1,425,954; Aug. 15.
Automobile doors, Latch for. B. E. Taylor. No. 1,425,552; Aug. 15.
Automobile footboards, Safety lock for. A. J. Dubee. No. 1,426,282; Aug. 15.
Automobile hood clamp. J. A. Huth. No. 1,425,773; Aug. 15.
Automobile jack. E. A. Howe. No. 1,426,068; Aug. 15.
Automobile radiator. A. P. Andersen. No. 1,425,933; Aug. 15.
Automobile rim lug and wedge. A. W. Nelson. No. 1,425,677; Aug. 15.
Automobile top, Disappearing. A. C. Velo. No. 1,426,129; Aug. 15.
Automobile towing bar. B. E. De Vol and J. R. Moncrief. No. 1,426,155; Aug. 15.
Automobiles, Direction signal for. C. Dubeault. No. 1,426,281; Aug. 15.
Automobiles, Securing device for the connecting stripe of. G. H. Prigan. No. 1,425,691; Aug. 15.
Automobiles, Steering mechanism for. H. M. Denyes. No. 1,426,753; Aug. 15.
Automobiles, Washbasin for. F. P. Sullivan. No. 1,426,016; Aug. 15.
Auto sleigh attachment. O. Bufe. No. 1,425,835; Aug. 15.
Axle construction, Front-. A. M. Leoni. No. 1,426,302; Aug. 15.
Axles for motor-driven road vehicles, Making. C. W. Davis. No. 1,426,279; Aug. 15.
Baby exerciser. F. M. Haskin. No. 1,426,063; Aug. 15.
Bag closing and tying machine. C. F. Sparks. No. 1,425,802; Aug. 15.
Bailer. G. B. McDonell and E. L. Peck. No. 1,426,305; Aug. 15.
Bait, Artificial. W. S. Ewert. No. 1,426,283; Aug. 15.
Ball and socket device. H. F. Whitted. No. 1,425,730; Aug. 15.
Balloons, Sextant for use with. R. S. Olmsted. No. 1,425,682; Aug. 15.
Band, Infant's. H. L. Redmond. Nos. 1,425,898–9; Aug. 15.
Bar: *See*—
Automobile towing bar. Checker bar.
Barn, Dairy. I. H. Evans. No. 1,426,266; Aug. 15.
Bath-cabinet-supporting frame. F. Hnilo and J. Schultz. No. 1,425,772; Aug. 15.
Battery: *See*—
Electric battery. Storage battery.
Battery container. R. W. Taylor. No. 1,425,721; Aug. 15.
Battery jar and making same. E. S. Boyer. No. 1,425,574; Aug. 15.
Bearing. A. Kingsbury. No. 1,425,979; Aug. 15.
Bearing. L. E. Waite. No. 1,426,130; Aug. 15.
Bearing, Adjustable. G. Fuegel and H. Schmid. No. 1,426,173; Aug. 15.
Bearing, Ball. K. W. Lindman. No. 1,425,872; Aug. 15.
Bearing, Ball. E. Williams. No. 1,426,236; Aug. 15.
Bearing for horizontal or inclined shafts. A. Kingsbury. No. 1,425,978; Aug. 15.
Bearing for machinery. M. Leitch. No. 1,425,664; Aug. 15.
Bearing puller, Annular-. E. P. Campbell. No. 1,425,836; Aug. 15.
Bearing puller, Generator and magneto. H. N. Tuggle. No. 1,426,126; Aug. 15.
Bearing, Roller. A. B. Burkholder. No. 1,426,038; Aug. 15.
Bearing, Roller side. F. L. Barber. No. 1,425,741; Aug. 15.
Bed clothing, Infant's. H. Fidler. No. 1,425,952; Aug. 15.
Bedspring apparatus. J. B. Swan, J. A. Rogers, and G. W. Jackson. No. 1,425,719; Aug. 15.
Belt or chain tightener. I. F. Nelson. No. 1,425,604; Aug. 15.
Beverages, Dealcoholizing. H. Heuser. No. 1,426,066; Aug. 15.
Bloomers. H. Sacks. Nos. 1,425,794–5; Aug. 15.
Board: *See*—
Running board.
Bobbins, Machine for cleaning roving. J. A. Lonso. No. 1,426,303; Aug. 15.
Body subdivision. W. C. Anthony. No. 1,425,821; Aug. 15.
Boll-weevil destroyer. P. B. Weiss. No. 1,426,234; Aug. 15.
Bolsters, Repair king post for. R. O. Shaw. No. 1,425,703; Aug. 15.
Bolt: *See*—
Stove bolt.
Book. J. G. Hall. No. 1,426,291; Aug. 15.
Book, Sales. J. N. Powers. No. 1,425,690; Aug. 15.
Bookbinding. E. A. Clauss and D. H. Adamson. No. 1,426,043; Aug. 15.
Booth, Voting. T. J. Purdy. No. 1,426,101; Aug. 15.
Boring and turning mills, Means for delivering cutting compound to the tools of vertical. F. F. Clarke. No. 1,425,943; Aug. 15.
Borneols and camphene, Manufacture of. B. T. Brooks. No. 1,426,036; Aug. 15.
Bottle-capping machine. F. G. Meyer. No. 1,425,672; Aug. 15.
Bottle cap, Sediment-containing. J. J. Zini. No. 1,426,241; Aug. 15.
Bottle, Nonrefillable. C. W. Freid. No. 1,425,957; Aug. 15.
Bottles, jars, and other receptacles, Closure for. C. L. Newland. No. 1,426,209; Aug. 15.
Box: *See*—
Ice box. Paper-board box.
Box folder and like container. G. B. Taylor. No. 1,425,720; Aug. 15.
Box-making machine. R. G. Inwood. No. 1,425,774; Aug. 15.
Brace: *See*—
Adjustable brace. Necktie brace.

Brake: *See*—
Machine brake.
Breech-closure mechanism. J. T. Thompson. No. 1,425,809; Aug. 15.
Broom and brush. H. B. Waters. No. 1,425,560; Aug. 15.
Brush cleaner. F. Weyhrauch. No. 1,425,923; Aug. 15.
Brush, Rotary. W. E. Sherbondy. No. 1,425,906; Aug. 15.
Buckle, Suspender. A. H. Kerngood. No. 1,425,778; Aug. 15.
Buffing wheel. D. F. McGovern. No. 1,425,786; Aug. 15.
Building trimmings, Ornamental. F. L. Conant. No. 1,426,277; Aug. 15.
Burglar alarm. G. W. Frank, jr., and F. Carlock. No. 1,426,169; Aug. 15.
Butter cutter. C. F. Smith. No. 1,426,016; Aug. 15.
Butter-print-forming machine. R. F. Stewart. No. 1,425,711; Aug. 15.
Butter spreader. S. N. Kohn. No. 1,426,085; Aug. 15.
Button, Collar. J. S. Mead. No. 1,425,670; Aug. 15.
Buttonhook. M. F. Forzly. No. 1,425,760; Aug. 15.
Cabinet construction, Unit. C. E. Moulton. No. 1,426,892; Aug. 15.
Cabinet, Roller-towel. G. A. Steiner. No. 1,426,121; Aug. 15.
Cable lock. J. C. Williamson. No. 1,425,732; Aug. 15.
Cage perch. W. H. Harrison. No. 1,425,524; Aug. 15.
Cameras, Support for. K. W. Thalhammer. No. 1,425,807; Aug. 15.
Can opener. C. W. Gross. No. 1,426,182; Aug. 15.
Can opener. F. P. Shek. No. 1,425,704; Aug. 15.
Can opener and dispenser. C. Gotfredsen. No. 1,426,180; Aug. 15.
Candle and making same, Polychrome. K. V. Gambell. No. 1,426,174; Aug. 15.
Candy machine. C. C. Morian. No. 1,425,998; Aug. 15.
Canvas and similar woven fabrics, Treatment of. T. Andrew. No. 1,425,934; Aug. 15.
Cap, Sanitary. G. M. Marr. No. 1,425,582; Aug. 15.
Car-door lock. W. S. Sikes. No. 1,425,799; Aug. 15.
Car, Dump. H. S. Hart. No. 1,425,767; Aug. 15.
Car tipple, Rotary. A. H. Wood. No. 1,426,027; Aug. 15.
Cars, Clutch-pedal-locking device for Ford. J. P. Lecrone. No. 1,425,989; Aug. 15.
Cars, End plate for freight. A. G. Sandman. No. 1,426,222; Aug. 15.
Carbon, Production of. W. E. F. Bradley. No. 1,426,144; Aug. 15.
Carburetor-controlling device. S. Cruces and E. Lobo. No. 1,426,259; Aug. 15.
Carburetor, Duplex. F. R. Perry. No. 1,426,335; Aug. 15.
Card holder, Shipping-. W. F. Luick. No. 1,425,874; Aug. 15.
Carrier: *See*—
Egg carrier.
Carrier, Overhead system. J. L. Baldwin. No. 1,425,740; Aug. 15.
Cart, Dumping. R. A. Sale. No. 1,425,698; Aug. 15.
Carton-filling mechanism. M. J. Mimoe. No. 1,425,997; Aug. 15.
Casting device, Ingot-. F. L. Jamison. No. 1,425,658; Aug. 15.
Casting machine, Centrifugal. W. F. Wolf. No. 1,425,927; Aug. 15.
Catalyst and preparing same. J. C. Clancy. No. 1,425,576; Aug. 15.
Cellulose butyrate, Preparing. G. J. Esselen, jr., and H. S. Mork. No. 1,425,581; Aug. 15.
Cellulose derivative and preparing same. G. J. Esselen, jr., and H. S. Mork. No. 1,425,580; Aug. 15.
Cement roofing, Reenforced. J. E. Whiteside. No. 1,425,564; Aug. 15.
Center and surface testing indicator. D. McDuff. No. 1,426,207; Aug. 15.
Centrifugal machine. W. Bartholomew. No. 1,425,628; Aug. 15.
Chain, Sprocket. L. Bethke. No. 1,426,248; Aug. 15.
Chair: *See*—
Folding chair.
Charging jack. R. E. Powell. No. 1,425,689; Aug. 15.
Check and closer, Combined. R. R. Rundell. No. 1,425,900; Aug. 15.
Checker bar. J. H. Sample. No. 1,426,112; Aug. 15.
Chlorine products from unsaturated hydrocarbons, Producing. A. E. Maze. No. 1,425,669; Aug. 15.
Chocolate or other material, Machine for mixing. A. Sonsthagen. No. 1,426,118; Aug. 15.
Cigarette machines, Driving mechanism for. E. D. Smith. No. 1,425,801; Aug. 15.
Cinematographic screen. J. M. Ogilvie. No. 1,426,317; Aug. 15.
Circuit-breaker-tripping structure. W. M. Scott. No. 1,425,700; Aug. 15.
Clamp: *See*—
Automobile hood clamp. Rail clamp.
Hose clamp. Table clamp.
Clasp: *See*—
Dental clasp.
Cleaner: *See*—
Brush cleaner. Grain cleaner.
Clod crusher. B. Kent. No. 1,425,976; Aug. 15.
Closable ventilator. A. F. Roth. No. 1,425,903; Aug. 15.
Closure. H. R. Pausin. No. 1,426,211; Aug. 15.
Clothespin. D. S. Boyles. No. 1,426,251; Aug. 15.
Clutch. W. D. McCullough. No. 1,425,994; Aug. 15.
Clutch mechanism. J. K. Pierce. No. 1,426,213; Aug. 15.
Coal-handling system. F. E. Arndt. No. 1,425,822; Aug. 15.
Coal, Treating. F. J. Root. No. 1,426,012; Aug. 15.
Coaster. R. A. Mack. No. 1,425,880; Aug. 15.
Coatings on refractory articles and articles coated therewith, Composition for producing. W. R. Mott. No. 1,425,603; Aug. 15.
Coatings to metallic surfaces, Producing and applying enamel. H. M. Smith. No. 1,425,612; Aug. 15.
Cobbling outfit. C. L. Glafcke. No. 1,426,289; Aug. 15.
Coffee, Roasting and packing ground or whole. J. A. Reynolds. No. 1,426,011; Aug. 15.
Collar holder, Soft-. L. Figarsky. No. 1,425,953; Aug. 15.
Comb. J. Biderman. No. 1,425,937; Aug. 15.
Comb. D. K. Echols. No. 1,425,757; Aug. 15.
Comb, Hair. J. Sacker. No. 1,426,111; Aug. 15.
Combs, Machine for making. G. Kohlmeyer, C. E. Wing, and H. Schelhammer. No. 1,425,595; Aug. 15.
Commutator brush. W. S. Click. No. 1,425,632; Aug. 15.
Commutator-segment mounting. W. E. Richter. No. 1,426,105; Aug. 15.
Compressor, Hydraulic air. G. T. Underwood. No. 1,425,813; Aug. 15.
Compressors, Cooling device in multistage centrifugal. B. Graemiger. No. 1,425,855; Aug. 15.
Computing device. N. M. Purviance. No. 1,426,332; Aug. 15.
Concrete bricks, Apparatus for making. A. G. Hatch. No. 1,425,590; Aug. 15.
Concrete floors, Collapsible falsework for. H. J. Baker. No. 1,425,823; Aug 15.
Condenser and making same. R. T. Staples. No. 1,425,912; Aug. 15.
Conduit-coupling device. H. G. Knoderer. No. 1,425,781; Aug. 15.
Connector. H. R. Saxon. No. 1,426,323; Aug. 15.
Container. J. J. Shumaker. No. 1,425,908; Aug. 15.
Container structure. J. S. Stokes. Nos. 1,425,713-14; Aug. 15.
Containers, Holder for. H. M. Smith. No. 1,425,707; Aug. 15.
Control system. A. L. Harvey. Nos. 1,425,646-7; Aug. 15.
Conveyer. G. Glass. No. 1,426,179; Aug. 15.
Conveyer. R. H. Lansing. No. 1,425,988; Aug. 15.
Conveyer, Gravity. C. H. Lister. No. 1,425,599; Aug. 15.
Conveyer roller. P. C. Wego. No. 1,425,561; Aug. 15.
Conveyers, Controller for intersecting. L. G. Tingwall and A. J. Johnson. No. 1,425,556; Aug. 15.
Conveyers, Converger for. L. G. Tingwall and A. J. Johnson. No. 1,425,557; Aug. 15.
Conveying apparatus. W. L. Jones. No. 1,425,861; Aug. 15.
Cooking retort. F. B. Donnellan. No. 1,426,050; Aug. 15.
Cooling apparatus. W. S. Adams. No. 1,425,739; Aug. 15.
Copper, Freeing metals from. M. O. Sem. No. 1,425,701; Aug. 15.
Copy fastener. W. C. Lineaweaver. No. 1,425,873; Aug. 15.
Corn-planter attachment. A. C. Kubicek. No. 1,425,867; Aug. 15.
Cornerib. I. E. Clum. No. 1,426,045; Aug. 15.
Cotton-picker suction nozzle. L. C. Stukenborg. No. 1,426,326; Aug. 15.
Counter revolution. L. Krug. No. 1,425,982; Aug. 15.
Coupling: *See*— Trailer coupling.
Flexible coupling.
Sash-cord coupling.
Coupling. W. J. Hollick. No. 1,423,525; Aug. 15.
Crate, Collapsible. H. D. Hammond. J. W. Achelpohl and A. Leslie. No. 1,425,587; Aug. 15.
Crate, Collapsible hog. W. E. Petty. No. 1,426,315; Aug. 15.
Crate for milk bottles. W. Lynch. No. 1,426,304; Aug. 15.
Cream whip and the like. E. E. Holt. No. 1,426,080; Aug. 15.
Crib or bed cover. R. R. Smith. No. 1,426,230; Aug. 15.
Cuboid support. W. C. Burns. No. 1,426,258; Aug. 15.
Cultivator. C. J. Allen. No. 1,425,932; Aug. 15.
Cup: *See*—
Priming cup.
Current, Frequency changer and generator of alternating. N. Obonkhoff. No. 1,426,001; Aug. 15.
Currents, Selective reception of alternating. F. E. Pernot and L. J. Rich. No. 1,426,334; Aug. 15.
Curtain and shade holder, Adjustable window. C. F. Magnusson. No. 1,425,906; Aug. 15.
Curtain fastener. J. Vodicka. No. 1,425,618; Aug. 15.
Cutter: *See*— Milling cutter.
Butter cutter.
Hair cutter.
Cylinders, Doll head or bearing for drying. G. Dod. No. 1,425,635; Aug. 15.
Delivery mechanism. B. T. Headley and D. I. Du Bois. No. 1,425,962; Aug. 15.
Dental clasp. L. Engberg. No. 1,425,844; Aug. 15.
Desk, Chair. H. E. Kincheloe. No. 1,426,297; Aug. 15.
Desulphurizing iron ores, iron and steel, and coke used in the metallurgy of iron. W. L. Estabrooke and D. D. Jackson. No. 1,426,054; Aug. 15.
Differential mechanism. J. D. Johnson. No. 1,425,970; Aug. 15.
Dinitroglycol and its homologues, Preparation of. H. Oehme. No. 1,426,313; Aug. 15.

Dish-washing machine. F. L. Davidson. No. 1,426,260; Aug. 15.
Disintegrating machine. F. von Osten. No. 1,425,920; Aug. 15.
Disk wheel, Hub demountable double. W. E. Williams. No. 1,425,926; Aug. 15.
Dispensing apparatus. D. D. Clark. No. 1,425,837; Aug. 15.
Display stand. T. Dinsen and J. J. Kricker. No. 1,426,156; Aug. 15.
Display stand, Collapsible. G. M. Franks. No. 1,425,846; Aug. 15.
Displaying stand for garments, Portable. H. C. Short. No. 1,426,225; Aug. 15.
Dividers. O. Force. No. 1,426,269; Aug. 15.
Doll. N. Kearney. No. 1,425,974; Aug. 15.
Door construction, Garage-. P. Frantz. No. 1,426,170; Aug. 15.
Draft rigging. A. G. Sandman. No. 1,426,221; Aug. 15.
Draining device. A. Disk. No. 1,426,262; Aug. 15.
Drawings by artificial light, Apparatus for the reproduction of. P. A. M. Dubief. No. 1,425,636; Aug. 15.
Dress form. J. McCarthy. No. 1,425,877; Aug. 15.
Dressing stand, Infant's. W. B. Driver. No. 1,426,160; Aug. 15.
Drill press. J. Eckhard. No. 1,426,052; Aug. 15.
Drills, Feeding means for. H. I. Stage. No. 1,425,613; Aug. 15.
Drinking-cup dispenser. P. Maiwurm. No. 1,425,886; Aug. 15.
Driving mechanism for counters. S. Hinds. No. 1,425,964; Aug. 15.
Drop-cover check. H. A. Arnold. No. 1,425,568; Aug. 15.
Dry-cleaning and sterilizing process. T. P. Endicott. No. 1,426,053; Aug. 15.
Dyes for wool, Ortho-oxyazo. W. Herzberg and O. Scharfenberg. No. 1,426,190; Aug. 15.
Dyes, Ortho-oxyazo. W. Herzberg and O. Scharfenberg. No. 1,426,189; Aug. 15.
Egg and other cases, Flat for. G. H. Williams. No. 1,425,820; Aug. 15.
Egg carrier. M. A. Benedict. No. 1,426,246; Aug. 15.
Electric battery. R. C. Benner and H. F. French. No. 1,425,573; Aug. 15.
Electric conductors, Junction box for. R. S. O'Neil. No. 1,426,210; Aug. 15.
Electric heater. T. M. Feder. No. 1,426,166; Aug. 15.
Electric-light bulb. C. H. and H. E. Quackenbush. No. 1,425,606; Aug. 15.
Electric light, Interchangeable globe holder for an. E. A. Gillinder. No. 1,425,852; Aug. 15.
Electric resistance heater for high temperatures. B. Bauer. No. 1,426,245; Aug. 15.
Electric switch, Automatic. W. G. Shelton. No. 1,425,610; Aug. 15.
Electrical apparatus, Casing for. W. O. Dwyer. No. 1,425,843; Aug. 15.
Electrical collectors, commutators, controllers, or interrupters, or equivalent devices, Manufacturing. H. Herrmann. No. 1,426,293; Aug. 15.
Electrical distribution system. C. H. Giroux. No. 1,425,853; Aug. 15.
Electrically-actuated permutation mechanism and circuits controlled thereby. J. B. Heller. No. 1,425,963; Aug. 15.
Electrode for precipitating systems, Discharge. O. H. Eschholz. No. 1,425,637; Aug. 15.
Electrolytic cell. A. V. Davis. No. 1,425,752; Aug. 15.
Electrolytic tanks with diaphragm cells, Arrangement in. G. Haglund. No. 1,426,071; Aug. 15.
Electroplating, Process and apparatus for. W. E. Belke. No. 1,426,141; Aug. 15.
Elevator-door lock. J. F. Girten. No. 1,425,762; Aug. 15.
Emery-wheel-dressing tool. G. R. Brisben. No. 1,425,941; Aug. 15.
Engine: *See*—
Hydrocarbon engine.
Engine piston. J. Thomson. No. 1,426,022; Aug. 15.
Engines, Antiknocking device for pistons of internal-combustion. C. H. Brown. No. 1,425,630; Aug. 15.
Engines, Connecting rod for. S. Wiltse. No. 1,425,567; Aug. 15.
Engines, Manifold lock for internal-combustion. H. P. Maloney. No. 1,426,308; Aug. 15.
Engines, Method and means for vaporizing fuel for internal-combustion. W. N. Harrison. No. 1,426,187; Aug. 15.
Engines, Starting apparatus for internal-combustion. E. P. Dumanois. No. 1,425,950; Aug. 15.
Ester condensation products, Production of. A. A. Backhaus. No. 1,425,626; Aug. 15.
Esters, Apparatus for the manufacture of. A. A. Backhaus. No. 1,425,624; Aug. 15.
Esters, Manufacture of. A. A. Backhaus. No. 1,425,625; Aug. 15.
Fabric articles, Means for shaping and drying. A. W. Johnson. No. 1,425,969; Aug. 15.
Fabric-working mechanism. R. H. Lansing. No. 1,425,987; Aug. 15.
Fabrics, leather, furs, sponges, etc., from cocoons and making same, Substitute for. A. Delubac. No. 1,425,948; Aug. 15.
Facing machine for facing the centers of wood-spoke wheels. H. Flick, J. P. Voelker, and H. Dunn. No. 1,426,168; Aug. 15.
Fan, Motor. J. Brzozowski. No. 1,426,256; Aug. 15.
Fan-pulley wheel and crank ratchet. G. A. Sleight. No. 1,426,227; Aug. 15.
Fans, Friction drive for. J. H. Leitch. No. 1,425,870; Aug. 15.
Fastening-inserting machine. E. Erickson. No. 1,425,516; Aug. 15.
Fastening, Temporary. E. R. Pruitt. No. 1,426,098; Aug. 15.
Feed regulator. H. J. Carson. No. 1,426,041; Aug. 15.
Feed water, Air separator for. M. R. Hickman. No. 1,426,076; Aug. 15.
Feeder, Calf. I. Bratcher and O. Burghardt. No. 1,426,252; Aug. 15.
Fence, Miniature. W. I. Ravert. No. 1,426,215; Aug. 15.
Fencepost. J. S. Hollander. No. 1,425,653; Aug. 15.
Fender: *See*—
Vehicle fender.
Fertilizer material and making same, Phosphatic. L. R. Coates. No. 1,425,747; Aug. 15.
Fibers active, Rendering animal and vegetable. J. Korselt. No. 1,426,298; Aug. 15.
Filling machines, Air-vent cleaner for. J. F. Haller. No. 1,425,960; Aug. 15.
Filter. A. Jordahl. No. 1,426,196; Aug. 15.
Fire-alarm attachment. J. Schneiderman. No. 1,425,797; Aug. 15.
Fire door. R. W. Kaucher and J. W. Barr. No. 1,425,973; Aug. 15.
Firearm, Automatic. A. Bardelli. No. 1,425,627; Aug. 15.
Flange wrench. R. B. Foster. No. 1,425,845; Aug. 15.
Flexible coupling. G. L. Tarbox. No. 1,425,616; Aug. 15.
Floor covering. W. H. Frazier and W. J. O'Neill. No. 1,425,847; Aug. 15.
Floor loading buck. E. S. Evans. No. 1,426,164; Aug. 15.
Flush tank. E. Leeberg. No. 1,426,203; Aug. 15.
Flushing apparatus, Conduit-. W. Weber. No. 1,426,135; Aug. 15.
Fly swatter. R. Zohm. No. 1,425,622; Aug. 15.
Folding chair. W. B. Anselm. No. 1,426,140; Aug. 15.
Food cutters, Drip cup for. H. T. Waldner. No. 1,426,025; Aug. 15.
Frogless switch. M. Walsh. No. 1,425,619; Aug. 15.
Fruit-jar-capping machine. G. E. Frazier. No. 1,426,056; Aug. 15.
Fulcrum arrangement, Reversible-. W. C. Hedgcock. No. 1,425,649; Aug. 15.
Fulcrum means, Reversible-. W. C. Hedgcock. No. 1,425,651; Aug. 15.
Fulcrum mechanism. W. C. Hedgcock. No. 1,426,074; Aug. 15.
Fulcrum mechanism, Reversible-. W. C. Hedgcock. No. 1,425,650; Aug. 15.
Fulcrum structure, Reversible-. W. C. Hedgcock. No. 1,426,075; Aug. 15.
Furnace for the heat treatment of metals. L. C. Josephs, jr., and G. Wirrer. No. 1,425,660; Aug. 15.
Fuse plug, Magazine. P. M. Carmichael. No. 1,426,040; Aug. 15.
Fuse, Refillable. J. H. Procter and M. J. Sandin. No. 1,425,692; Aug. 15.
Fuse, Refillable. M. J. Sandin. No. 1,425,699; Aug. 15.
Game apparatus. R. S. Terry. No. 1,425,617; Aug. 15.
Game or puzzle. H. L. Post. No. 1,425,793; Aug. 15.
Garment press. J. B. Spencer and P. E. Geldhof. No. 1,421,120; Aug. 15.
Garments, Eye for. L. M. Rabinowitz. No. 1,425,897; Aug. 15.
Garter. J. Bear. No. 1,425,571; Aug. 15.
Gas and flexible metal tubing, Device for forming coupling ends for. P. J. Burke. No. 1,426,037; Aug. 15.
Gas and for carbonizing coal, Producing combustible. H. L. Doherty. No. 1,426,159; Aug. 15.
Gas mixtures, Preparing purified. J. C. Clancy. No. 1,425,577; Aug. 15.
Gas producers, Feed hopper for. G. L. Robinson. No. 1,425,901; Aug. 15.
Gas producers, Regulating mechanism for. C. W. Lummis. No. 1,425,875; Aug. 15.
Gases, Compressing. L. Block. No. 1,425,938; Aug. 15.
Gasoline-line lock. D. R. Cox and D. A. Kinnie. No. 1,426,154; Aug. 15.
Gate: *See*—
Automatic gate.
Gate and hinge. J. Lange. No. 1,425,986; Aug. 15.
Gear, Running. C. O. Wyman. No. 1,425,734; Aug. 15.
Gearing for milling machines, Adjustable. C. Gabrielson. No. 1,425,848; Aug. 15.
Geological-fault guide. W. H. Sheppard. No. 1,425,705; Aug. 15.
Glass-annealing leer, Plate-. E. E. Milner and W. J. Lytle. No. 1,426,310; Aug. 15.
Glass, Method and apparatus for drawing. C. P. Byrnes. No. 1,425,746; Aug. 15.
Glove or mitten. C. E. Young. No. 1,426,029; Aug. 15.
Glycerin by fermentation, Production of. A. T. Cocking and C. H. Lilly. No. 1,425,838; Aug. 15.
Golf clubs and the like, Shaft for. A. E. Lard. No. 1,426,202; Aug. 15.
Governor for self-feeders, Speed. N. R. Krause. No. 1,425,782; Aug. 15.

Grain cleaner. F. Fowler. No. 1,426,270; Aug. 15.
Grip handle, Renewable. J. Mosher. No. 1,425,534; Aug. 15.
Gun, Automatic. J. T. Thompson. No. 1,425,810; Aug. 15.
Gun-carriage trailer with combined propulsion by wheels and by endless track members. I. Roy. No. 1,426,219; Aug. 15.
Guns, Breech mechanism for. J. T. Thompson. No. 1,425,808; Aug. 15.
Gyro rotor, Wire-wound. E. A. Sperry. No. 1,426,339; Aug. 15.
Gyroscope, Rotor for. E. A. Sperry. No. 1,426,336; Aug. 15.
Hair curler. E. F. Suter. No. 1,426,020; Aug. 15.
Hair cutter. L. J. Sigorzky. No. 1,426,226; Aug. 15.
Hair waver. H. H. Klein. No. 1,425,527; Aug. 15.
Hair-waving means. E. O. Frederics. No. 1,425,956; Aug. 15.
Hand bags, etc., Top for. C. C. Holden. No. 1,426,078; Aug. 15.
Handle: *See*—
Grip handle. Tool handle.
Handles, Method and means for securing wooden. F. R. Plumb. No. 1,426,316; Aug. 15.
Handsaw type, Mechanic's tool of the. A. Neron. No. 1,425,536; Aug. 15.
Hanger: *See*—
Radiator hanger.
Harrow. J. N. Wilkin. No. 1,425,819; Aug. 15.
Hat stretcher and shaper. D. Freedline. No. 1,426,285; Aug. 15.
Hatchet, Lather's. C. S. Cason. No. 1,426,151; Aug. 15.
Headed stopper. J. A. Paulsen. No. 1,425,539; Aug. 15.
Headlight. J. S. Wheeler. No. 1,425,562; Aug. 15.
Headlight, Dirigible. W. W. Dart. No. 1,425,751; Aug. 15.
Headlight mechanism, Dirigible-. J. G. Flood. No. 1,425,759; Aug. 15.
Heater: *See*—
Air heater. Reflector heater.
Electric heater. Water heater.
Heel clamping device, Wood-. F. A. Reardon. No. 1,425,543; Aug. 15.
Heel-nailing machine. G. M. Pettengill. No. 1,425,540; Aug. 15.
Heel, Metallic. R. R. Kirsch. No. 1,425,866; Aug. 15.
Heel plate. N. Harris. No. 1,426,186; Aug. 15.
Heel, Resilient. W. H. Clarke. No. 1,425,509; Aug. 15.
Heel, Shoe. B. Sunimerfield. No. 1,425,019; Aug. 15.
Hinge snap. J. McGiveney. No. 1,425,995; Aug. 15.
Hinge, Spring. C. Bock. No. 1,425,939; Aug. 15.
Hoist. F. E. Drake. No. 1,426,264; Aug. 15.
Hoist. L. and F. Pignani. No. 1,425,792; Aug. 15.
Hoists, Brake for. W. S. Livengood. No. 1,425,600; Aug. 15.
Hoisting apparatus, Control mechanism for. S. Arnold, 3d. No. 1,425,569; Aug. 15.
Hoisting machine. C. W. Anderson. No. 1,426,139; Aug. 15.
Hook: *See*—
Buttonhook. Trace hook.
Hoop-forming machine. J. E. Wright. No. 1,426,028; Aug. 15.
Horse protector. K. Naudulaitis. No. 1,425,676; Aug. 15.
Hose clamp. J. R. Lowrey. No. 1,426,086; Aug. 15.
Hot mill, Continuous. H. G. O'Brien. No. 1,425,537; Aug. 15.
Househeating system. J. Oster. No. 1,426,004; Aug. 15.
Hydrocarbon engine. W. Dinwiddie. No. 1,426,049; Aug. 15.
Hydrocarbons, Producing light. C. R. Burke. No. 1,426,149; Aug. 15.
Hydrogen and hydrogen-nitrogen mixtures, Generating. J. C. Clancy. No. 1,425,578; Aug. 15.
Hydrogen, Preparing. J. C. Clancy. No. 1,425,578; Aug. 15.
Ice box. M. Gonzalez. No. 1,425,854; Aug. 15.
Ice-cream freezer. T. L. Valerius and O. Larsen. No. 1,425,814; Aug. 15.
Illuminating system for vehicles. S. V. Gramlich. No. 1,426,060; Aug. 15.
Indexing mechanism. G. D. Sundstrand. No. 1,425,716; Aug. 15.
Indicator: *See*—
Center and surface testing indicator. Station indicator.
Induction machines, System of speed control for. R. E. Hellmund. No. 1,425,652; Aug. 15.
Insulating flat-wire conductors. J. A. Heany. No. 1,426,065; Aug. 15.
Insulating material and manufacturing the same. F. C. Emrick. No. 1,426,163; Aug. 15.
Internal-combustion gas and oil engine, Horizontal. K. I. Crossley and W. L. Webb. No. 1,425,946; Aug. 15.
Iron: *See*—
Press iron. Soldering iron.
Iron and steel scrap, Producing finished sections from. C. Johns. No. 1,425,971; Aug. 15.
Jack: *See*—
Automobile jack. Vehicle jack.
Jack. A. F. Lanier. No. 1,426,201; Aug. 15.
Jacket, Hunting and fishing. J. A. Thureson. No. 1,426,024; Aug. 15.
Jar closure. C. R. Keeran. No. 1,425,594; Aug. 15.
Jewelry, Moving display apparatus for. C. E. Chapman. No. 1,425,508; Aug. 15.
Joint: *See*—
Lock joint. Wood joint.
Rail joint.
Journal bearing and lubricating means therefor, Car. F. Radcliffe. No. 1,426,102; Aug. 15.
Kiln with heating chambers and cooling chambers. V. Gelpke. No. 1,426,287; Aug. 15.
Knife and fork, Combined. J. H. Crawford. No. 1,425,750; Aug. 15.
Knives, Protecting device for the edge of butchers'. F. C. Hammar. No. 1,426,184; Aug. 15.
L's, Making return. E. E. Slick. No. 1,426,324; Aug. 15.
Ladder-making machine. P. Broman. No. 1,426,255; Aug. 15.
Lamp. S. O. Hoffman. No. 1,425,967; Aug. 15.
Lamp, Automobile. F. E. Gregory. No. 1,426,181; Aug. 15.
Lamp dimmer. C. W. Eisele. No. 1,426,162; Aug. 15.
Lamp for automobiles and the like, Spot. S. H. Thomson. No. 1,426,023; Aug. 15.
Lamp, Indicator. E. E. Zienner. No. 1,426,240; Aug. 15.
Lantern construction. J. J. Hughes. No. 1,426,295; Aug. 15.
Latch for furnace doors. W. Schoch. No. 1,425,904; Aug. 15.
Lathe dog. V. T. Julin. No. 1,425,862; Aug. 15.
Lathe, Propeller. L. B. Whipple. No. 1,425,563; Aug. 15.
Lathes, Cylinder-grinding attachment for. W. A. Jennings. No. 1,425,592; Aug. 15.
Lathes, Revolving cutter head for spoke-turning. H. Flick. No. 1,426,167; Aug. 15.
Lathes, Rotatable tool holder for. J. C. Steiner. No. 1,425,804; Aug. 15.
Laundry device. E. T. Baskin. No. 1,425,828; Aug. 15.
Lens series and making same, Toric-. L. W. Bugbee. Nos. 1,426,146–8; Aug. 15.
Line-casting machines, Slug-trimming knife for. S. E. Sperry. No. 1,426,231; Aug. 15.
Lint cleaner and batting machine. F. Alder and J. C. Rogers. No. 1,425,502; Aug. 15.
Loader. H. H. Petersen. No. 1,426,212; Aug. 15.
Loading and unloading machine. J. Simons. No. 1,426,116; Aug. 15.
Lock: *See*—
Cable lock. Platen lock.
Car-door lock. Table lock.
Elevator-door lock. Tire-rim lock.
Gasoline-line lock. Window lock.
Nut lock.
Lock. L. Stern. No. 1,426,122; Aug. 15.
Lock joint, Safety. E. Tilton. No. 1,425,724; Aug. 15.
Locking washer. P. A. Trepier. No. 1,425,725; Aug. 15.
Locomotives, Condensing system for. C. E. Sayer. No. 1,426,113; Aug. 15.
Loom, Fence-weaving. C. A. Porath. No. 1,426,007; Aug. 15.
Looms for weaving, Shuttle for. J. E. Haughton and G. Berry. No. 1,426,188; Aug. 15.
Lubricator. L. Kassander. No. 1,425,972; Aug. 15.
Machine brake. A. Novick. No. 1,426,092; Aug. 15.
Manure spreader. C. W. Weightman. No. 1,425,729; Aug. 15.
Mat: *See*—
Rubber mat.
Mat. R. J. Bell. No. 1,425,830; Aug. 15.
Maximum-demand meter. P. M. Lincoln. No. 1,425,665; Aug. 15.
Measuring and discharging apparatus. L. I. Yeomans. No. 1,425,735; Aug. 15.
Measuring device. F. E. Small. No. 1,425,800; Aug. 15.
Measuring device, Foot-. E. J. Bliss. No. 1,426,143; Aug. 15.
Measuring instrument, Electrical. F. N. Waterman. No. 1,426,132; Aug. 15.
Metal-flanging machine. H. R. Bremer. No. 1,426,253; Aug. 15.
Metal, Process of and apparatus for pouring. D. J. Ryan and L. J. Feltes. No. 1,426,110; Aug. 15.
Ryan and L. J. Feltes. No. 1,426,110; Aug. 15.
Metal-treating apparatus. J. F. Gillan. No. 1,425,851; Aug. 15.
Metals from ores, Extracting. S. McKirahan. No. 1,425,667; Aug. 15.
Metals with gaseous fuel, Cutting. J. Harris. No. 1,425,858; Aug. 15.
Metallic table. S. Feigler. No. 1,425,582; Aug. 15.
Meter: *See*—
Volt-ampere meter. Water meter.
Metering granular material, Apparatus for. E. G. Bailey. No. 1,425,936; Aug. 15.
Milking machines, Milk and air line connection for. F. A. Gessler. No. 1,425,585; Aug. 15.
Milking machines, Teat cup for. F. A. Gessler. No. 1,425,584; Aug. 15.
Mill: *See*—
Hot mill.
Milling cutter. C. G. Olson. No. 1,425,893; Aug. 15.
Milling machine. G. D. Sundstrand. No. 1,425,717; Aug. 15.
Mining machine. H. R. Straight. No. 1,425,913; Aug. 15.
Mining sheave. A. Bandura. No. 1,426,271; Aug. 15.

Mirror and lighting means therefor. N. and M. Sloane. No. 1,426,228; Aug. 15.
Mold: *See*—
Tire mold.
Mop. D. Kenner. No. 1,426,084; Aug. 15.
Motor: *See*—
Fan motor.
Motor-control system. A. A. Gazda. No. 1,425,640; Aug. 15.
Motor-control system. A. L. Harvey. No. 1,425,648; Aug. 15.
Motor-control system. H. D. James. No. 1,425,657; Aug. 15.
Motor-control system. H. L. Keith. No. 1,425,662; Aug. 15.
Motor-control system. E. R. Stoekle. No. 1,426,123; Aug. 15.
Motors, Automatic rewind mechanism for. W. Kabbel. No. 1,425,863; Aug. 15.
Mouthpiece, Sanitary. N. Gelb. No. 1,425,958; Aug. 15.
Movement, Mechanical. L. Rosen. No. 1,425,902; Aug. 15.
Muffle-flattening oven and jeer. E. E. Milner and W. J. Lytle. No. 1,426,309; Aug. 15.
Music-roll seal. E. S. Dwelly. No. 1,426,161; Aug. 15.
Nail-holding device. S. Bochonok. No. 1,426,249; Aug. 15.
Necktie brace. J. H. Rice. No. 1,425,696; Aug. 15.
Necktie holder. T. M. Guest. No. 1,426,183; Aug. 15.
Nozzle. W. H. Wills, jr. No. 1,426,136; Aug. 15.
Nut, Castillated. F. O. Jaques, jr. No. 1,425,591; Aug. 15.
Nut lock. T. A. Randals. No. 1,426,319; Aug. 15.
Nut warming and vending machine. C. W. Mabey. No. 1,425,531; Aug. 15.
Oil and the like, Apparatus for treating fish. J. C. W. Stanley. No. 1,425,803; Aug. 15.
Oil-bearing material, Cooker for. R. A. Trace. No. 1,425,811; Aug. 15.
Oil derivative, Mineral-. H. T. Maitland. Nos. 1,425,884–5; Aug. 15.
Oil, Purifying and dehydrating transformer. C. H. Hapgood. No. 1,425,645; Aug. 15.
Oils, Treating hydrocarbon. H. T. Maitland. Nos. 1,425,882–3; Aug. 15.
Organs are submitted when working, Apparatus for measuring the value of the efforts of the deformations to which. L. R. W. Boulassier. No. 1,425,506; Aug. 15.
Oven. M. Froehlich. No. 1,426,059; Aug. 15.
Oven, Bake. H. F. Sommer. No. 1,425,709; Aug. 15.
Oven, Electric bake. J. C. Woodson. No. 1,425,620; Aug. 15.
Ovens, Gas burner for coal. H. Lange. No. 1,425,985; Aug. 15.
Overshoe, Heelless. M. V. Wilde. No. 1,425,731; Aug. 15.
Oxide of zinc, Method and means of producing. J. Thomson. Nos. 1,425,917–18; Aug. 15.
Packing. H. F. Schmidt. No. 1,425,548; Aug. 15.
Paintbrush, Fountain. S. Grzebinski. No. 1,425,959; Aug. 15.
Paper-board box. G. E. Scruby. No. 1,425,549; Aug. 15.
Paper boxes or containers, Reenforced blank material for the manufacture of. G. W. Swift, jr. No. 1,425,914; Aug. 15.
Paper, Drier for drying coated. A. H. Parker. No. 1,426,095; Aug. 15.
Paper pulp, Machine for manufacturing fiber strips from. G. Türk. No. 1,426,329; Aug. 15.
Parachute, Fuselage. E. L. Hoffman. No. 1,425,770; Aug. 15.
Pastry materials, Press for. P. Barducci. No. 1,426,244; Aug. 15.
Pen, Fountain. T. Kovács. No. 1,426,200; Aug. 15.
Pen, Fountain. J. C. Rorison. No. 1,425,607; Aug. 15.
Pen, Folding drawing. L. Zweng. No. 1,425,738; Aug. 15.
Pencil, Magazine. J. H. Waring. No. 1,426,131; Aug. 15.
Pencil, Mechanical. J. G. Liddell. No. 1,425,871; Aug. 15.
Penholder. E. Labhard. No. 1,425,984; Aug. 15.
Petroleum under high pressure, Distilling. C. E. Stockford. No. 1,425,712; Aug. 15.
Phonograph. J. Hoffay. No. 1,425,966; Aug. 15.
Phonograph. H. S. Uber. No. 1,426,128; Aug. 15.
Phonograph disks, Lifting device for. J. L. Bauer. No. 1,426,034; Aug. 15.
Phonograph stop. H. W. Troeger. No. 1,426,125; Aug. 15.
Phonographic-disk-record ejector. E. M. Howard. No. 1,425,771; Aug. 15.
Phosphor metals, Producing. S. L. Nicholson. No. 1,425,679; Aug. 15.
Photographic-printing apparatus. W. C. Huebner. No. 1,425,526; Aug. 15.
Photographic printing machine. J. H. Smith. No. 1,426,117; Aug. 15.
Photographic records, Production and projection of. B. B. A. Johnson. No. 1,425,775; Aug. 15.
Photographic shutter. R. Klein. No. 1,425,980; Aug. 15.
Picker-head holder. R. S. Gambrell. No. 1,426,175; Aug. 15.
Picture films, Apparatus for unwinding motion-. C. M. Gottschau. No. 1,426,290; Aug. 15.
Picture machine, Motion-. P. W. Palmer. No. 1,425,538; Aug. 15.
Picture-making apparatus. L. La Borie. No. 1,425,597; Aug. 15.
Piston. E. E. Allyne. No. 1,426,138; Aug. 15.
Piston. O. W. Hanson. No. 1,426,072; Aug. 15.
Piston and packing for same. F. E. Gough. No. 1,425,641; Aug. 15.
Plane, Chamfering. C. H. Groth. No. 1,425,764; Aug. 15.
Plastic composition and articles formed therefrom. J. P. A. McCoy. No. 1,425,784; Aug. 15.
Plate and making same, Attachable. F. G. Davison. Nos. 1,425,840–1; Aug. 15.
Platen lock. H. F. E. Baeseler. No. 1,426,242; Aug. 15.
Plow for tractors, Gang. N. A. Cummings. No. 1,425,947; Aug. 15.
Plug, Electrical attachment. A. C. Recker. No. 1,425,694; Aug. 15.
Polishing composition. W. Roth. No. 1,426,107; Aug. 15.
Polishing machine. C. T. Beggs. No. 1,425,829; Aug. 15.
Polishing machine. E. P. McClure. No. 1,425,668; Aug. 15.
Polyphase controlling device. E. I. Deutsch. No. 1,425,755; Aug. 15.
Post: *See*—
Self-righting post.
Potato diggers, Potato carrier for. W. Broecker. No. 1,425,745; Aug. 15.
Potatoes, Grading and storing machine for. N. J. Oak. No. 1,425,791; Aug. 15.
Powder container. H. Slaiger. No. 1,425,909; Aug. 15.
Powders, Apparatus for washing insoluble. P. W. Prutsman. No. 1,426,099; Aug. 15.
Power plant, Steam. H. W. Bell. No. 1,425,629; Aug. 15.
Power transmission. C. G. Branstrator. No. 1,426,035; Aug. 15.
Press: *See*—
Drill press. Garment press.
Press iron, Electric. A. J. Shirk and S. Cohen. No. 1,426,015; Aug. 15.
Pressing machines, Locking device for. E. E. Reich. No. 1,425,695; Aug. 15.
Pressure-gas holder. A. F. Bridge. No. 1,426,145; Aug. 15.
Pressure regulator. H. W. Day. No. 1,425,634; Aug. 15.
Priming cup. A. C. Dobrick. No. 1,425,512; Aug. 15.
Printing and stamping machine. H. F. Hurat. No. 1,426,069; Aug. 15.
Printing machines, Delivery mechanisms for. H. M. Barber. No. 1,426,033; Aug. 15.
Printing, Multicolor. F. Kunert and E. Acker. No. 1,426,299; Aug. 15.
Privy. H. R. Maguire. No. 1,425,881; Aug. 15.
Propeller, Adjustable or self-regulating. E. Wesnigk. No. 1,425,922; Aug. 15.
Propeller blades, Machine for facing. F. E. Neitzel. No. 1,426,091; Aug. 15.
Pudding compositions, Making. E. Polak. No. 1,426,006; Aug. 15.
Pull-strap fixture. P. Riesmann. No. 1,426,106; Aug. 15.
Puller: *See*—
Bearing puller.
Pump. G. F. Lybeck. No. 1,426,206; Aug. 15.
Pump. F. Stickel. No. 1,425,614; Aug. 15.
Pump, Air. J. W. Lawhead. No. 1,425,663; Aug. 15.
Pump, Deep-well. W. A. Minor. No. 1,425,673; Aug. 15.
Pumps, Standing valve for. R. M. Stafford. No. 1,425,710; Aug. 15.
Pumping system. B. S. Aikman. No. 1,425,928; Aug. 15.
Purse, Safety. J. Meisner. No. 1,425,889; Aug. 15.
Push-button switch. E. E. Rose and P. L. Mardis. No. 1,425,697; Aug. 15.
Rack: *See*—
Charging rack.
Radiator: *See*—
Automobile radiator.
Radiator construction. F. B. Wentworth. No. 1,426,235; Aug. 15.
Radiant energy, Transmission system for. J. H. Hammond, jr. No. 1,425,523; Aug. 15.
Radiator hanger. J. W. Moore. No. 1,425,891; Aug. 15.
Radiators, Screw-socket connection for. F. F. Forshee. No. 1,425,638; Aug. 15.
Radiogoniometer. G. M. Wright. No. 1,426,137; Aug. 15.
Radiosignaling, Apparatus for preventing static interference in. R. A. Weagant. No. 1,426,133; Aug. 15.
Rail attachment. J. Hitzert. No. 1,426,192; Aug. 15.
Rail clamp. E. B. Taggart. No. 1,425,915; Aug. 15.
Rail joint. J. Zelinsky. No. 1,425,736; Aug. 15.
Rail-joint fastener. S. Papp. No. 1,425,683; Aug. 15.
Railway crossing. J. H. Hardy. No. 1,426,292; Aug. 15.
Railway, Elevated. J. B. Strauss. No. 1,425,805; Aug. 15.
Railway spike. W. W. Stryker. No. 1,425,715; Aug. 15.
Railway switch. E. L. Nylund. No. 1,425,680; Aug. 15.
Railway systems, Street indicator for street-. A. M. Gallery. No. 1,425,583; Aug. 15.
Railway tie. T. D. McCarty. No. 1,425,783; Aug. 15.
Railway tie, Composite. G. H. Pegram. No. 1,425,686; Aug. 15.
Railway-traffic-controlling apparatus. R. A. McCann. No. 1,425,993; Aug. 15.

Range finder and like instrument for use on shipboard. A. Barr and W. Stroud. No. 1,425,742; Aug. 15.
Ratchet drive. C. W. Rudolph and W. J. Schlacks. No. 1,426,109; Aug. 15.
Ratchet wrench. W. I. Tuttle. No. 1,426,127; Aug. 15.
Razor blades, Apparatus for making hollow-ground. T. C. Sheehan. No. 1,425,798; Aug. 15.
Receptacle holder. W. J. Spiro. No. 1,425,550; Aug. 15.
Recrisping means. P. S. Moyer. No. 1,425,790; Aug. 15.
Reflector. W. A. Dorey. No. 1,426,280; Aug. 15.
Reflector heater, Movable. E. Witzberger. No. 1,426,238; Aug. 15.
Regulator: *See*—
Feed regulator. Temperature-compensated
Pressure regulator. regulator.
Reproducers, Diaphragm-frame mounting for. D. H. Wilson. No. 1,425,566; Aug. 15.
Resilient wheel. H. C. Anderson. No. 1,425,623; Aug. 15.
Reversing control, Automatic. W. L. Merrill. No. 1,425,890; Aug. 15.
Rifle sight. A. Dickey. No. 1,425,756; Aug. 15.
Rim, Demountable. H. N. Moody. Nos. 1,426,089–90; Aug. 15.
Rim-locking attachment. W. H. McGowen. No. 1,426,307; Aug. 15.
Rim-lug shim. J. T. Curtis. No. 1,425,511; Aug. 15.
Rim, Sectional demountable. E. W. Ginzel. No. 1,426,288; Aug. 15.
Rings and the like, Making. A. S. Campbell. No. 1,426,275; Aug. 15.
Roller: *See*—
Conveyer roller.
Roundabout. W. Pasturczak. No. 1,426,314; Aug. 15.
Rubber heel. A. E. Rope. No. 1,426,218; Aug. 15.
Rubber heel and making same. F. R. Keith. No. 1,426,198; Aug. 15.
Rubber mat. J. H. S. Kerr. No. 1,426,296; Aug. 15.
Rubber, Treatment of leather with India. A. McLennan. No. 1,425,530; Aug. 15.
Rudders, Operating mechanism of kitchen reversing. F. L. Martineau. No. 1,425,887; Aug. 15.
Running board. H. T. Thomas. No. 1,425,554; Aug. 15.
Salve. S. O. O'Dell. No. 1,426,002; Aug. 15.
Sand-cleaning machine. W. A. Goodwin. No. 1,425,763; Aug. 15.
Sash. H. R. Moyer. No. 1,425,535; Aug. 15.
Sash cord coupling. J. A. Ryan. No. 1,425,547; Aug. 15.
Sash-raising mechanism, Automatic. A. D. and E. J. Rawlings. No. 1,426,104; Aug. 15.
Sash weight. B. F. Aufderheide, sr. No. 1,425,570; Aug. 15.
Saw-filing machine. J. E. Meed. No. 1,425,602; Aug. 15.
Scale, Automatic weighing. H. R. Standefer. No. 1,425,911; Aug. 15.
Scales, Weather cover for track. J. W. Orrock. No. 1,426,003; Aug. 15.
Screen: *See*—
Cinematographic screen. Water screen.
Screen and storm sash, Combined. L. W. Fisher. No. 1,426,267; Aug. 15.
Screws, nails, and the like, Holder for. A. J. Reid. No. 1,426,320; Aug. 15.
Seed, Delinting cotton. L. G. Polhamus. No. 1,425,688; Aug. 15.
Segment trimming instrument. F. Dox. No. 1,426,263; Aug. 15.
Self-righting post. E. W. Congdon, jr. No. 1,425,945; Aug. 15.
Semaphore blade. F. C. Lavarack. No. 1,426,300; Aug. 15.
Service box or tray. W. V. Holley. No. 1,426,079; Aug. 15.
Shackle, Spring. G. H. Hayes. No. 1,426,064; Aug. 15.
Sharpener, Edge-tool. O. Kampfe. No. 1,426,083; Aug. 15.
Sharpener, Rotary razor. C. B. Collins. No. 1,426,152; Aug. 15.
Shearing machine, Bevel. A. R. Roberts. No. 1,426,216; Aug. 15.
Shears. G. W. Killin. No. 1,425,779; Aug. 15.
Shears, Attachment for pruning. A. Rausse. No. 1,426,214; Aug. 15.
Shears, Pruning. A. Bratschie. No. 1,425,744; Aug. 15.
Shingle. E. W. Lesher. Nos. 1,425,991–2; Aug. 15.
Ship propulsion, System of. W. Sykes. No. 1,425,615; Aug. 15.
Ships under assumed loads, Apparatus for graphically ascertaining the stability and trim of. S. B. Ralston. No. 1,426,103; Aug. 15.
Shock absorber. C. W. Bishop. No. 1,425,831; Aug. 15.
Shock absorber. C. H. Brown. No. 1,425,834; Aug. 15.
Shock absorber. W. G. Fritz. No. 1,426,058; Aug. 15.
Shock absorber. W. T. Schrum and E. Krants. No. 1,426,013; Aug. 15.
Shock absorber. A. B. Shultz. No. 1,426,115; Aug. 15.
Shoe and making it. G. Ferguson. No. 1,425,518; Aug. 15.
Shoe machine. F. E. Valois. No. 1,425,558; Aug. 15.
Shoe sole. G. Ferguson. No. 1,425,517; Aug. 15.
Shoe-toe-softening machine. R. A. Koepke. No. 1,425,981; Aug. 15.
Short-circuiting device, Centrifugally-actuated. J. H. Garcelon and J. L. Chantemerle. No. 1,425,639; Aug. 15.
Signal: *See*—
Auto theft signal. Vehicle signal.
Tire signal.
Signaling device. C. F. Gilbert. No. 1,425,586; Aug. 15.
Silicate of soda, Furnace for producing. W. H. Stanton. No. 1,425,551; Aug. 15.
Silo roof. A. D. W. Johnson. No. 1,425,860; Aug. 15.
Silver from photographic and other baths, Process of and means for recovering. N. B. Aukerman. No. 1,425,935; Aug. 15.
Snap-fastener top. G. F. Pullen. No. 1,426,100; Aug. 15.
Soldering. J. Moreau. No. 1,426,311; Aug. 15.
Soldering iron, Electric. F. Kuhn and L. H. Thomas. No. 1,425,983; Aug. 15.
Soldering pot and soldering iron. O. A. Colby. No. 1,425,633; Aug. 15.
Sound, Apparatus for recording, reproducing, and amplifying. C. Blieberger. No. 1,425,505; Aug. 15.
Sound recording and reproducing instrument. W. E. Clifton and J. S. Ewart. No. 1,425,944; Aug. 15.
Sound transmission, System for. J. H. Hammond, jr. No. 1,425,522; Aug. 15.
Spark plug, Visible. A. T. Crane. Nos. 1,425,748–9; Aug. 15.
Sparking plug. W. A. Jones. No. 1,426,333; Aug. 15.
Spectacle frames and similar articles, Making. H. Tremblay. No. 1,425,919; Aug. 15.
Spinning and like machines, Doffer guard and oil-well cover for spindle supports for. J. R. Gleunon and L. Dupuis. No. 1,425,521; Aug. 15.
Spoke-forming device. W. McCullough. No. 1,425,785; Aug. 15.
Spool. W. A. Prentiss. No. 1,425,895; Aug. 15.
Spotlight, Motor-vehicle. F. S. Boyer. No. 1,426,250; Aug. 15.
Spray desiccation apparatus. H. J. Zimmermann. No. 1,426,030; Aug. 15.
Spring compressor, Leaf-. W. W. Blakely. No. 1,425,832; Aug. 15.
Spring eyes, Machine for making. W. Evans. No. 1,426,165; Aug. 15.
Spring suspension. E. A. Curtis. No. 1,425,839; Aug. 15.
Spring suspension. A. W. Gattle. No. 1,426,178; Aug. 15.
Spring wheel. L. W. Simmons. No. 1,425,706; Aug. 15.
Stamping mechanism. E. Nordstrom. No. 1,426,000; Aug. 15.
Stand: *See*—
Display stand. Dressing stand.
Stand. H. G. Tiffany. Nos. 1,426,327–8; Aug. 15.
Star forms on fabrics, Method of and apparatus for making and sewing. J. A. Freeze. No. 1,426,172; Aug. 15.
Starter, Electric. O. Brisbois. No. 1,426,274; Aug. 15.
Station indicator. H. McNicholas. No. 1,425,879; Aug. 15.
Steam trap. R. Lödler. No. 1,426,205; Aug. 15.
Steel-cutting machine. J. Pitrus. No. 1,425,894; Aug. 15.
Steel for casehardening, Determining the suitability of. H. W. McQuaid. No. 1,425,787; Aug. 15.
Steering device. R. C. Newhouse. No. 1,425,678; Aug. 15.
Stenciling device. E. F. Hill. No. 1,426,007; Aug. 15.
Stills, Damper control for oil. J. Primrose. No. 1,425,896; Aug. 15.
Stoker, Automatic. H. C. Ford. No. 1,425,519; Aug. 15.
Stone gatherer. O. F. Reiter. No. 1,425,544; Aug. 15.
Stopper: *See*—
Beaded stopper.
Stopper. J. McFadden. No. 1,426,306; Aug. 15.
Storage battery. T. A. Willard. No. 1,425,924; Aug. 15.
Store, Portable automobile grocery. A. L. Moseley. No. 1,425,789; Aug. 15.
Stove. I. King. No. 1,425,780; Aug. 15.
Stove bolt, Snap. E. Witzberger. No. 1,426,237; Aug. 15.
Stove bolt, Spring. E. Witzberger. No. 1,426,239; Aug. 15.
Stove, Cooking. J. Shannon. No. 1,425,702; Aug. 15.
Stove oven. E. L. Baker. No. 1,426,032; Aug. 15.
Stud. J. E. Brady. No. 1,425,507; Aug. 15.
Submarines, Signaling apparatus for detecting. A. E. Sperry. No. 1,426,337; Aug. 15.
Sulphuric acid chambers, Construction of. R. E. Dior. No. 1,426,261; Aug. 15.
Surveying instrument. P. O. Harding. No. 1,425,589; Aug. 15.
Switch: *See*—
Electric switch. Push-button switch.
Frogless switch. Railway switch.
Switch. J. A. Hirst and P. S. Brook. No. 1,425,769; Aug. 15.
Switches, Front and lock rod for. E. K. Post. No. 1,426,097; Aug. 15.
Table: *See*—
Metallic table.
Table clamp. F. La Point. No. 1,425,868; Aug. 15.
Table lock. C. E. Bowers. No. 1,425,833; Aug. 15.
Tack-handling mechanism. F. W. Taylor. No. 1,425,553; Aug. 15.
Tags, Machine for attaching laundry. G. H. Williams. No. 1,426,330; Aug. 15.
Tail-docking device. F. C. Metzler. No. 1,425,671; Aug. 15.
Tank: *See*—
Flush tank. Toilet tank.
Tanks, Reserve-supply system for. J. G. O'Brien and F. A. Picard. No. 1,425,681; Aug. 15.
Tanning with iron salts. O. Röhm. No. 1,426,322; Aug. 15.

Tape-holding device, Gum-. V. J. Van Horn. No. 1,425,815; Aug. 15.
Tapping machines, Attachment for. A. J. Barber. No. 1,426,273; Aug. 15.
Tea-leaf-rolling machine. H. A. Tempelaar. No. 1,425,722; Aug. 15.
Teeter totter. I. M. Jacobs and W. Cramer. No. 1,426,082; Aug. 15.
Telautographic apparatus. G. S. Tiffany. No. 1,426,233; Aug. 15.
Telephone attachment. F. E. Wampach and A. E. Karlberg. No. 1,425,559; Aug. 15.
Telephone-exchange system. H. G. Webster. No. 1,425,728; Aug. 15.
Telephone hand set. W. C. Kiesel. No. 1,425,977; Aug. 15.
Temperature-compensated regulator. J. H. Hunt. No. 1,425,858; Aug. 15.
Tension-controlling device. W. Lind. No. 1,425,528; Aug. 15.
Textile fabrics and the resulting product, Producing patterned. H. Giesler. No. 1,425,520; Aug. 15.
Therapeutical effects, Apparatus for producing. S. N. Baruch. No. 1,425,743; Aug. 15.
Threads, etc., Producing lustrous. C. A. Huttinger. No. 1,425,654; Aug. 15.
Tie: *See*—
Railway tie.
Tie plate. A. Morrison. No. 1,426,312; Aug. 15.
Timer. A. W. Kaufmann. No. 1,425,864; Aug. 15.
Timer. E. J. Lee. No. 1,425,910; Aug. 15.
Tire. F. L. Marshall. No. 1,425,668; Aug. 15.
Tire-chain-attachment device. C. Flugel. No. 1,426,268; Aug. 15.
Tire construction. F. D. Mayer. No. 1,425,788; Aug. 15.
Tire mold. H. Raflovich. No. 1,425,693; Aug. 15.
Tire patch. L. L. Williams. No. 1,425,925; Aug. 15.
Tire, Pneumatic. F. B. Pfeiffer. No. 1,426,005; Aug. 15.
Tire, Pneumatic. E. J. Turck. No. 1,425,812; Aug. 15.
Tire protector. E. A. Hitch. No. 1,426,191; Aug. 15.
Tire, Resilient. D. M. Rothenberger. No. 1,426,108; Aug. 15.
Tire-rim lock. C. F. Wasserfallen. No. 1,425,817; Aug. 15.
Tire signal, Deflated-. H. A. Wilson. No. 1,425,733; Aug. 15.
Tire traction lug. G. W. Smith. No. 1,426,229; Aug. 15.
Tires, Rim for vehicle. G. G. Barry. No. 1,425,826; Aug. 15.
Toaster. T. C. Russell. No. 1,425,546; Aug. 15.
Toaster, Electric. M. F. Fitzgerald. No. 1,426,284; Aug. 15.
Toaster, Inclosed. W. Pascoe. No. 1,425,685; Aug. 15.
Toilet instrument. W. E. Kelly. No. 1,425,776; Aug. 15.
Toilet outfit. S. R. Svendsgaard. No. 1,426,021; Aug. 15.
Toilet tank, Muffler. J. C. Owens. No. 1,426,094; Aug. 15.
Tool handle. P. Elenchuk. No. 1,426,265; Aug. 15.
Tool handle. W. Lauber. No. 1,425,598; Aug. 15.
Tooth, Artificial interchangeable. A. Schwartz and J. Wieder. No. 1,426,114; Aug. 15.
Tooth for crown, bridge, and plate work, Porcelain. V. Mallon. No. 1,425,601; Aug. 15.
Towers, Construction of extensible. H. L. Christie. No. 1,426,276; Aug. 15.
Toy. H. R. Larsen. No. 1,425,869; Aug. 15.
Toy and carousel, Mounted combination. B. Zsarnay. No. 1,425,737; Aug. 15.
Toy building construction. S. A. Metcalfe. No. 1,426,087; Aug. 15.
Toy, Sand. G. A. Kehl. No. 1,425,805; Aug. 15.
Toy, Sand. H. A. Schulke. No. 1,426,014; Aug. 15.
Toy vehicle. J. H. Fredrich and C. Bock. No. 1,426,171; Aug. 15.
Trace hook. J. A. Gardner. No. 1,426,176; Aug. 15.
Track line, Overhead. W. L. Barton. No. 1,425,827; Aug. 15.
Track sander. C. O. Burton. No. 1,425,575; Aug. 15.
Tractor. V. Ivarson. No. 1,426,070; Aug. 15.
Tractor frames, Flexible mounting for. C. T. Penton. No. 1,425,687; Aug. 15.
Trailer coupling. T. Weber. No. 1,426,134; Aug. 15.
Train stop, Automatic. T. M. Riggle. No. 1,426,321; Aug. 15.
Transfer mechanism. Z. P. Candee. No. 1,426,039; Aug. 15.
Transformer construction. R. V. Bingay. No. 1,425,504; Aug. 15.
Transplanting device. H. E. Hanson. No. 1,425,588; Aug. 15.
Trap: *See*—
Steam trap.
Tripod and tripod clamp. G. A. Mitchell. No. 1,426,088; Aug. 15.
Trolling spoon. W. J. Eggleston. No. 1,425,951; Aug. 15.
Truck. G. P. Wallstrom. No. 1,425,727; Aug. 15.
Truck, Motor. J. Hocke. No. 1,425,965; Aug. 15.
Trucking mechanism. A. J. Morrow. No. 1,425,999; Aug. 15.
Trucks, Safety appliance for railway-car. C. L. Pittman. No. 1,426,096; Aug. 15.
Truss. C. M. Thomas. No. 1,426,124; Aug. 15.
Tube-closing machine, Collapsible-. T. L. Harrison. No. 1,425,961; Aug. 15.
Tubular structure. J. L. Sussman. No. 1,425,718; Aug. 15.
Typewriter attachment. W. J. Iwami. No. 1,426,195; Aug. 15.
Typewriter, Manifolding. J. Q. Sherman. No. 1,425,907; Aug. 15.
Typewriting machine. E. E. Barney. No. 1,425,825; Aug. 15.
Typewriting machine. C. M. Hilsee. No. 1,426,077; Aug. 15.
Typewriting machine. J. A. B. Smith. No. 1,425,910; Aug. 15.
Typewriting machine. J. Waldheim. No. 1,425,921; Aug. 15.
Typewriting machines, Arrangement of the paper-pressing rollers of. H. F. E. Baeseler. No. 1,426,243; Aug. 15.
Typographical machine. T. S. Homans. No. 1,426,194; Aug. 15.
Umbrella, Self-opening. S. S. Fretz, sr. No. 1,425,761; Aug. 15.
Umbrellas when closed, Band for engaging and holding the ends of the ribs of. J. H. Swift. No. 1,425,806; Aug. 15.
Undercoating composition. L. Crossman. No. 1,425,510; Aug. 15.
Underwear garment. C. M. Walker. No. 1,425,726; Aug. 15.
Upper-forming machine. A. Bates. No. 1,425,503; Aug. 15.
Uppers, Machine and method for use in shaping. M. Brock. No. 1,425,942; Aug. 15.
Vacuum and pressure trap, Water-sealed. A. Harrison. No. 1,425,857; Aug. 15.
Valve. L. W. Greve. No. 1,425,644; Aug. 15.
Valve. R. Springborn. No. 1,425,708; Aug. 15.
Valve, Air. L. W. Greve. No. 1,425,643; Aug. 15.
Valve, and operating mechanism therefor, Tank outlet. E. Poason. No. 1,426,008; Aug. 15.
Valve, Automatic gasoline-shut-off. H. R. Jackson. No. 1,425,656; Aug. 15.
Valve for gas stoves. W. J. Kennedy. No. 1,425,975; Aug. 15.
Valve-gear mechanism. H. C. Clay. No. 1,425,631; Aug. 15.
Valve-grinding tool and the like. T. A. Parmenter. No. 1,425,684; Aug. 15.
Valve handles, Guard for. J. Ditson. No. 1,425,949; Aug. 15.
Valve handwheel. F. R. Banks. No. 1,426,272; Aug. 15.
Valve, Muffler toilet. J. C. Owens. No. 1,426,093; Aug. 15.
Valve, Pump. R. L. Hay. No. 1,426,073; Aug. 15.
Valve, Radiator. W. C. Boyd. No. 1,425,940; Aug. 15.
Valve, Radiator. J. Carmel. No. 1,426,150; Aug. 15.
Valve-reseating tool. M. B. Skinner. No. 1,425,611; Aug. 15.
Valve-spring compressor and holder. C. M. Salsgiver. No. 1,425,796; Aug. 15.
Valve stems, Locking device for. W. R. Royer. No. 1,425,545; Aug. 15.
Valve-tappet-silencing mechanism. V. J. Harris. No. 1,425,766; Aug. 15.
Vehicle body. J. H. Press and I. F. Avery. No. 1,425,541; Aug. 15.
Vehicle body, Convertible. B. E. Carrm. No. 1,426,153; Aug. 15.
Vehicle body, Convertible. A. A. Kramer. No. 1,425,596; Aug. 15.
Vehicle-body support and air control, Pneumatic. W. G. Fritz. No. 1,426,057; Aug. 15.
Vehicle fender. O. G. Jones. No. 1,425,659; Aug. 15.
Vehicle jack. P. J. Raymond and G. Adams. No. 1,425,542; Aug. 15.
Vehicle signal. O. L. Dennes. No. 1,425,842; Aug. 15.
Vehicle signal. R. W. Shartle. No. 1,425,905; Aug. 15.
Vehicle signal device. O. R. Strawn. No. 1,426,017; Aug. 15.
Vehicle wheels, Attachment for motor-. T. F. Mulcahey. No. 1,426,208; Aug. 15.
Vehicles, Axle mounting for motor. E. J. Rantsch. No. 1,426,009; Aug. 15.
Vehicles, Camping attachment for motor. L. W. R. Andrist. No. 1,426,031; Aug. 15.
Vehicles, Fan mounting for motor. A. M. Leoni. No. 1,426,301; Aug. 15.
Vehicles, Mirror attachment for. F. W. Rees. No. 1,426,010; Aug. 15.
Vehicles, Propeller attachment for. W. E. Kelly. No. 1,425,777; Aug. 15.
Vehicles, Shock absorber for. J. Eckhard. No. 1,426,051; Aug. 15.
Vehicles, Sled-runner attachment for motor. J. G. Scholz and E. Weller. No. 1,425,609; Aug. 15.
Vehicles, Spring suspension for. E. J. L. Gauthier. No. 1,425,849; Aug. 15.
Vehicles, Steering device for motor. W. B. Thomas. No. 1,425,723; Aug. 15.
Vehicles, Steering mechanism for motor. H. M. Denyes. No. 1,425,754; Aug. 15.
Vehicles, Steering mechanism for motor. G. H. Hannum. No. 1,425,765; Aug. 15.
Ventilator: *See*—
Closable ventilator.
Verifying machine. J. T. Schaaff. No. 1,426,223; Aug. 15.
Violin, Electric self-playing. B. E. Mills. No. 1,425,533; Aug. 15.

Vise jaws, Attachment for. O. A. Webster. No. 1,426,026; Aug. 15.
Visual signaling means. E. A. Sperry. No. 1,426,338; Aug. 15.
Volt-ampere meter, Reactive. J. W. West. No. 1,425,818; Aug. 15.
Voting machine. M. Floro. No. 1,425,955; Aug. 15.
Wall construction. W. G. Demarest. No. 1,426,048; Aug. 15.
Wash-room fixture. J. L. Cohen. No. 1,426,046; Aug. 15.
Washboiler. J. Brzyski and W. Felski. No. 1,426,257; Aug. 15.
Washer: *See*—
Locking washer.
Washing machine. G. S. Blakeslee. No. 1,426,142; Aug. 15.
Washing machine for washing fabrics. J. J. Harpel. No. 1,426,185; Aug. 15.
Washing machines, Frame and casing for. J. S. Power. No. 1,426,318; Aug. 15.
Watch fob. J. E. Church. No. 1,426,042; Aug. 15.
Water heater, Induction. A. J. Holmes. No. 1,425,968; Aug. 15.
Water meter. R. J. Lyman. No. 1,425,876; Aug. 15.
Water screen, Traveling. G. R. Roddy. No. 1,426,217; Aug. 15.
Water-softening apparatus. J. D. Yoder. No. 1,425,621; Aug. 15.
Waterproofing vulcanized fiber. J. McIntosh. No. 1,425,878; Aug. 15.
Welding. L. G. McClintock. No. 1,425,529; Aug. 15.
Well. D. H. Maury. No. 1,425,888; Aug. 15.
Wheel: *See*—
Buffing wheel.
Resilient wheel.
Spring wheel.
Wheel. S. P. Barber. No. 1,425,824; Aug. 15.
Wheel. W. S. Brickell. No. 1,426,254; Aug. 15.
Wheel structure. E. I. Dodds. Nos. 1,426,157–8; Aug. 15.
Wheels, Traction attachment for. P. J. Kenny. No. 1,426,199; Aug. 15.
Wheels with helical or straight teeth, Machine for cutting bevel-gear. V. G. Dartois. No. 1,426,278; Aug. 15.
Winding-machine traverse mechanism. C. A. Huttinger. No. 1,425,655; Aug. 15.
Window adjuster. K. Naudulaitis. No. 1,425,675; Aug. 15.
Window catch. W. H. F. Jeska. No. 1,425,593; Aug. 15.
Window lock. W. E. Huber. No. 1,426,204; Aug. 15.
Window-pane fastener. W. Leichtfuss. No. 1,426,204; Aug. 15.
Window-sash weight. C. L. Schneider. No. 1,426,224; Aug. 15.
Window screen and sash locker. C. Ellis. No. 1,425,515; Aug. 15.
Wire tensioning and twisting machine. A. J. Gerrard and P. Wright. No. 1,425,850; Aug. 15.
Wood joint. O. T. Theodorsen. No. 1,426,232; Aug. 15.
Wrench: *See*—
Flange wrench.
Ratchet wrench.
Wrench. V. J. Van Horn. No. 1,425,816; Aug. 15.
Wringer support. H. W. Eden. No. 1,425,514; Aug. 15.
Writing, Device for use of the blind in. P. Fast. No. 1,426,055; Aug. 15.
Zinc dust, Manufacturing. T. Kato. No. 1,425,661; Aug. 15.

ALPHABETICAL LIST OF DESIGNS.

Brush. D. A. Andrews. Nos. 61,356–8; Aug. 15.
Cabinet. H. C. Gowran. No. 61,364; Aug. 15.
Carton. F. Lowy. No. 61,371; Aug. 15.
Chain. R. B. Benjamin. No. 61,359; Aug. 15.
Desk. C. T. Anderson. No. 61,355; Aug. 15.
Footwear. H. Schwerin. Nos. 61,382–3; Aug. 15.
Fringe. F. W. Oehrle. Nos. 61,378–9; Aug. 15.
Handkerchief, napkin, or similar article of manufacture. J. Harden. Nos. 61,366–9; Aug. 15.
Lamp base, Portable. A. Bostroem. Nos. 61,361–2; Aug. 15.
Light fixture. A. G. Nygren. No. 61,377; Aug. 15.
Lighting fixture. W. T. Blackwell. No. 61,360; Aug. 15.
Lighting-fixture loop. B. Newland. No. 61,375; Aug. 15.
Lighting-fixture tassel. B. Newland. No. 61,374; Aug. 15.
Oil bottle, Olive-. A. Ritterbeck. No. 61,380; Aug. 15.
Paper, Shelf. E. Kurfiol. No. 61,370; Aug. 15.
Ring or similar article. J. W. Mayer. No. 61,372; Aug. 15.
Ring, Wedding. C. B. Namiot. No. 61,373; Aug. 15.
Roofing element. N. Z. Butterick. No. 61,363; Aug. 15.
Table. H. C. Gowran. No. 61,365; Aug. 15.
Tray. L. M. Schnitzer, L. Garroway, and N. Gelfman. No. 61,381; Aug. 15.
Wall bracket. B. Newland. No. 61,376; Aug. 15.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Abrasive papers and cloths. Herman Behr & Company. No. 157,642; Aug. 15.
Antiseptic preparation. Mimin Chemical Corporation. No. 157,824; Aug. 15.
Bath robes. Infants' Ideal Bath Robe Co. No. 157,687; Aug. 15.
Belt dressing. Re-Nu-M Manufacturing Co. No. 157,747; Aug. 15.
Belts, Waist. Knothe Brothers Co. No. 157,816; Aug. 15.
Belting preservative, Leather and fabric. Cavanagh Manufacturing Co. No. 157,652; Aug. 15.
Books and catalogues, Lesson. National Poultry Institute, Inc. No. 157,722; Aug. 15.
Books, more particularly dictionaries. G. & C. Merriam Company. Nos. 157,818–23; Aug. 15.
Books, pamphlets, and circulars devoted to photoplay information, etc. Palmer Photoplay Corporation. No. 157,735; Aug. 15.
Braid, Gimp. Woodward & Cochey, Inc. No. 157,798; Aug. 15.
Brassières. G. M. Polx, Inc. No. 157,830; Aug. 15.
Brassières. S. Rubin. No. 157,833; Aug. 15.
Bread. Ward Baking Company. No. 157,793; Aug. 15.
Bread. D. P. Woolley. No. 157,799; Aug. 15.
Cabinets, Medicine. Hess Warming & Ventilating Company. No. 157,682; Aug. 15.
Cakes, wafers, crackers, biscuits. Loose Wiles Biscuit Company. No. 157,704; Aug. 15.
Candies. Heidelberger Confectionery Co. No. 157,681; Aug. 15.
Candies and chocolates, Hard and soft. Quaker City Chocolate & Confectionery Company. No. 157,745; Aug. 15.
Candy. Boston Confectionery Company. No. 157,645; Aug. 15.
Candy. Manufacturing Company of America. No. 157,709; Aug. 15.
Candy. E. L. Mathews Candy Company. No. 157,710; Aug. 15.
Candy. Nunnally Company. No. 157,727; Aug. 15.
Candy. R. M. Richardson & Co. No. 157,750; Aug. 15.
Candy. M. Tidyman. No. 157,777; Aug. 15.
Candy. Webers. No. 157,794; Aug. 15.
Candy, Chocolate. Sioux Candy Company. No. 157,768; Aug. 15.
Candy confections and foods. Thompson's Spa. No. 157,769; Aug. 15.
Canned and bottled crab. T. Komada. Nos. 157,700–1; Aug. 15.
Canned fish, fruits, and vegetables. G. W. Hume Company. No. 157,686; Aug. 15.
Canned fruits and vegetables. H. A. Baker, Inc. No. 157,639; Aug. 15.
Canned fruits and vegetables. Springfield Canning Co. No. 157,770; Aug. 15.
Canned fruits, vegetables, and fish, tomato catchup, fruit preserves. Wholesale Distributors Co. No. 157,795; Aug. 15.
Canned grapefruit. Arecibo Grape Fruit Company. No. 157,801; Aug. 15.
Canned tomatoes. Lawndale Wholesale Grocery Co. No. 157,703; Aug. 15.
Cartoons, Series of. C. H. Medcraft. No. 157,712; Aug. 15.
Catalogue. Shapleigh Hardware Company. No. 157,764; Aug. 15.
Cheese. R. H. Vollmer. No. 157,787; Aug. 15.
Chemical preparation for the removal of superfluous hair. Bertley Co. No. 157,804; Aug. 15.
Chemical preparations, Certain. Commercial Solvents Corporation. No. 157,806; Aug. 15.
Chocolate, Cream malted. G. H. Clark. No. 157,655; Aug. 15.
Cleaning and polishing materials for jewelry, metal ware, etc. Ovington Bros. Company. No. 157,733; Aug. 15.
Cleaning composition. J. J. O'Leary. No. 157,827; Aug. 15.
Cleansers, toilet and laundry soaps, and metal polish, Certain. Jennings-Sherry Company. No. 157,693; Aug. 15.
Clothing, Certain articles of. Corset Artistique, Inc. No. 157,807; Aug. 15.
Cloths and stuffs, Woven, knitted, and other. Derwent Mills Limited. No. 157,665; Aug. 15.
Coats, vests, and pants, Hunting and riding. Alward-Anderson-Southard Co. No. 157,633; Aug. 15.
Coats, vests, etc., men's hats, women's suits, skirts, and waists, Men's, youths' and boys'. Klothes Shoppe. No. 157,814; Aug. 15.
Coffee. Brazilian Coffee Houses, Inc. No. 157,649; Aug. 15.
Coffee. Franklin Coffee Co. No. 157,672; Aug. 15.
Coffee. L. H. Frohman & Company. No. 157,809; Aug. 15.
Cookies, Dietary. W. O. Backus. No. 157,637; Aug. 15.
Corsets, corset covers, bodices, etc. Rosenthal, Fleischer & Cie. No. 157,756; Aug. 15.
Corsets, Elastic. Treo Company. Nos. 157,779–82; Aug. 15.
Corundum, emery, and silicon carbide. General Abrasive Co. No. 157,673; Aug. 15.
Cotton piece goods. Cohn-Hall-Marx Co. No. 157,656; Aug. 15.
Cotton piece goods. J. A. Hearn & Son, Inc. No. 157,811; Aug. 15.
Cotton piece goods. Morton Sundour Fabrics Ltd. No. 157,719; Aug. 15.
Cotton piece goods. Pacific Mills. No. 157,734; Aug. 15.
Cotton piece goods. Passaic Print Works. Nos. 157,740–1; Aug. 15.
Cotton, silk, and cotton and silk piece goods. J. Richman & Co. No. 157,751; Aug. 15.
Cream, Shaving. A. J. Krank Manufacturing Company. No. 157,817; Aug. 15.
Cream, Shaving-soap. Miller Laboratories, Inc. No. 157,825; Aug. 15.
Cream, Vanishing. M. Casey. No. 157,805; Aug. 15.
Crêpe in the piece. Louis Roessel & Co. No. 157,832; Aug. 15.
Curtains and nets or curtain lace in piece goods, Lace. Quaker Lace Company. No. 157,831; Aug. 15.
Dentifrice. O. W. Huff. No. 157,685; Aug. 15.
Desks, studio tables, stands, and easels. J. Michaels. No. 157,716; Aug. 15.
Display stands and shelves. H. B. Howe Company. No. 157,684; Aug. 15.
Drains, sinks, washboards, etc., Chemical for cleansing. P. W. Drackett & Sons Company. No. 157,660; Aug. 15.
Dresses and aprons, children's dresses, rompers, and playsuits, etc. Cooper, Coate & Casey Dry Goods Co. No. 157,657; Aug. 15.
Elastic. William T. Palmer & Company. No. 157,737; Aug. 15.
Feed, Stock. B. L. Sessum. No. 157,762; Aug. 15.
Figs. Gledeler & Goldman. No. 157,674; Aug. 15.
Flour, Wheat. Omaha Flour Mills Co. No. 157,730; Aug. 15.
Food supplement for children and invalids, Artificially-compounded. H. A. Metz. No. 157,715; Aug. 15.
Fruit and nut bars. M. A. Witt. No. 157,796; Aug. 15.
Furniture, Household and office. Nunner and Ashton Company. No. 157,728; Aug. 15.
Gloves, Leather and fabric. National Glove Co. No. 157,826; Aug. 15.
Grease for treatment of leather shoes, belting, and harness. L. Dohner. No. 157,668; Aug. 15.
Hair goods, Human-. A. D. Strehl. No. 157,775; Aug. 15.
Hair nets. Crest Net Company. No. 157,659; Aug. 15.
Hair nets. E. B. Dewey. No. 157,666; Aug. 15.
Hair nets. A. Klar. No. 157,697; Aug. 15.
Hair nets. Lorraine Mfg. and Importing Company. No. 157,705; Aug. 15.
Hair nets. Parlstyle Novelty Co. No. 157,739; Aug. 15.
Hair nets. Samstag & Hilder Bros. No. 157,759; Aug. 15.
Hair nets. R. Scheanblum. No. 157,760; Aug. 15.
Hair rolls and puffs. Hairlight Company. No. 157,677; Aug. 15.
Hairpins and safety pins. Muller and Phipps (Asia) Ltd. No. 157,720; Aug. 15.
Hairpins, combs, barrettes, and hair ornaments. Pacific Novelty Company. No. 157,828; Aug. 15.
Hats, Ladies'. Paige Hat Co. No. 157,829; Aug. 15.
Hats, Men's felt. F. Berg & Company. No. 157,803; Aug. 15.
Hones. Shapleigh Hardware Company. No. 157,765; Aug. 15.
Hooks and eyes. Jordan Marsh Company. No. 157,695; Aug. 15.
Hosiery. Pittsburgh Dry Goods Company. No. 157,744; Aug. 15.
Hosiery and stockings. Bennington Hosiery Company. No. 157,802; Aug. 15.
Household furniture, Certain. Ovington Bros. Company. No. 157,732; Aug. 15.
Ice cream. C. G. Carlson Ice Cream Company. No. 157,651; Aug. 15.
Ice cream. Nestlé's Food Company. No. 157,724; Aug. 15.
Knitted goods of wool and wool mixture. Gold Mark Knitting Co. No. 157,675; Aug. 15.
Laces in the piece, Fancy. Lace Net Importing Co. No. 157,702; Aug. 15.
Lacings, galloons, and braids, Shoe and corset. International Braid Company. No. 157,689; Aug. 15.
Liquid chemical composition for cleaning windows and glassware. Silent Products Co. No. 157,766; Aug. 15.
Magazine. G. B. Monk. No. 157,717; Aug. 15.
Magazine, Monthly. J. V. Kohlhaas. No. 157,698; Aug. 15.
Magazine, Monthly. Palmer Photoplay Corporation. No. 157,736; Aug. 15.
Maps, atlases, miscellaneous books, magazines, etc. Rand McNally and Company. No. 157,707; Aug. 15.
Mattresses. C. F. Lottman & Sons. No. 157,706; Aug. 15.
Mattresses. A. T. Reynolds. No. 157,748; Aug. 15.

Mattresses and bed springs. De Witt-Seitz Co. No. 157,667; Aug. 15.
Mattresses, pillows, bolsters, cushions. Robinson-Roders Co. No. 157,752; Aug. 15.
Meats and lard, Smoked. Memphis Packing Corporation. No. 157,713; Aug. 15.
Medicinal preparation, Certain. G. S. Stoddard & Co. Nos. 157,836–8; Aug. 15.
Medicinal preparation, Certain. J. Weber, jr. No. 157,840; Aug. 15.
Milk, Evaporated. American Milk Products Corporation. Nos. 157,634–5; Aug. 15.
Milk, Evaporated. Crown Margarin Company. No. 157,660; Aug. 15.
Milk, Powdered. Merrell-Soule Company. No. 157,714; Aug. 15.
Newspaper articles and circulars issued from time to time. E. Callow. No. 157,650; Aug. 15.
Newspaper column. F. P. Adams. No. 157,632; Aug. 15.
Newspaper section. Evening News Association. No. 157,671; Aug. 15.
Newspaper sections. R. Brammer. No. 157,648; Aug. 15.
Notions, Certain. V. Vivaudou, Inc. No. 157,786; Aug. 15.
Nut bar, Chocolate-covered. W. R. Montague Company. No. 157,718; Aug. 15.
Oil, Cod-liver. A/S Gadus. No. 157,810; Aug. 15.
Oil, Olive. G. Rossano & Bro. No. 157,757; Aug. 15.
Oranges, grapefruit, and tangerines, Fresh. R. H. Rice. No. 157,749; Aug. 15.
Oranges, lemons, grapefruit, and tangerines, Fresh. W. H. Jameson. No. 157,692; Aug. 15.
Overall suits, Workmen's one-piece. Abbot Jacket Manufacturing Company. No. 157,631; Aug. 15.
Overalls. C. E. Hymson. No. 157,813; Aug. 15.
Pamphlets, books, circulars, prints, drawings, etc. International Federation of Technical Engineers', Architects', and Draftsmen's Unions. No. 157,691; Aug. 15.
Paper and correspondence envelopes, Writing. George B. Hurd & Co. No. 157,812; Aug. 15.
Paper towels and a piece of soap, Package containing. F. H. Chatfield. No. 157,653; Aug. 15.
Periodical issued in the spring and fall of each year. Woman's Institute of Domestic Arts & Sciences, Inc. No. 157,797; Aug. 15.
Periodical, Printed. John B. Rogers Producing Company. No. 157,753; Aug. 15.
Polish, All kinds of boot. Naamlooze Vennootschap Maatschappij Voor Wasverwerking. No. 157,721; Aug. 15.
Polish, Metal. J. H. Stahr. No. 157,772; Aug. 15.
Polish, Stove. B. Wallgren. No. 157,839; Aug. 15.
Polishes, enamel and waste-pipe cleaners, Liquid stove and metal. Rutland Fire Clay Co. No. 157,758; Aug. 15.
Pop-corn balls. Wagner Manufacturing Company. No. 157,788; Aug. 15.
Poultry and eggs, Dressed. C. C. Wright. No. 157,800; Aug. 15.
Powder, Mopping. M. J. Davis. No. 157,663; Aug. 15.
Preparation for removing dirt and stains from the hands, etc. J. E. R. Hasbrouck. No. 157,679; Aug. 15.
Publication, Monthly. Norwick Pharmacal Company. No. 157,726; Aug. 15.
Publication, Monthly. H. F. Stoll. No. 157,774; Aug. 15.
Publication, Monthly. W. O. Stone. No. 157,776; Aug. 15.
Publication, Quarterly. Delta Sigma Phi Fraternity. No. 157,664; Aug. 15.
Scalp and hair tonic. M. Shaffer Company. No. 157,834; Aug. 15.
Seat pads or cushions. M. C. Ukman. No. 157,783; Aug. 15.
Serge in the piece. M. M. Scher. No. 157,761; Aug. 15.
Sheets and pillowcases. Ernest Simons Mfg. Co. No. 157,767; Aug. 15.
Shirts, Men's and boys' negligee and work. Sigmund Eisner Company. No. 157,670; Aug. 15.
Shirts, Work. Reliance Manufacturing Company. No. 157,746; Aug. 15.
Shoe and leather dressing. E. Nutter. No. 157,729; Aug. 15.
Shoes. Julian & Kokenge Co. No. 157,696; Aug. 15.
Shoes and leather, Compound for preserving and waterproofing. Penn Leather Preserving Co. No. 157,742; Aug. 15.
Silk, cotton, and woolen piece goods and a combination thereof. Walker Knitting Mills Inc. No. 157,790; Aug. 15.
Silks. Aaron-Fleischer Silk Co. No. 157,630; Aug. 15.
Snap fasteners. Waldes & Co. No. 157,789; Aug. 15.
Soap. M. Bailly. No. 157,638; Aug. 15.
Soap. H. Kohnstamm & Co. No. 157,699; Aug. 15.
Soap. Medicraft Company. No. 157,711; Aug. 15.
Soap. W. & H. Walker Inc. No. 157,791; Aug. 15.
Soap. A. G. Wiswell. No. 157,841; Aug. 15.
Soap and cleansers, Certain. Davies-Young Soap Company. No. 157,661; Aug. 15.
Soap, Antirheumatic medicated. Seven Spas Soap Proprietary Coy., Limited. No. 157,763; Aug. 15.
Soap flakes. Rolly Chemical Co. No. 157,754; Aug. 15.
Soap flakes. E. F. Travieso. No. 157,778; Aug. 15.
Soap, Laundry. S. W. Goldsmith. No. 157,676; Aug. 15.
Soap, Laundry. Iowa Soap Company. No. 157,690; Aug. 15.
Soap, Tar and antiseptic. R. C. R. Binder and L. B. Schreiber, trustees of the estate of R. Binder, deceased. No. 157,644; Aug. 15.
Soap, Toilet. Cheramy Incorporated. No. 157,654; Aug. 15.
Soap, Toilet. Haskins Bros. & Company. No. 157,680; Aug. 15.
Soap, Toilet. Johnson & Johnson. No. 157,694; Aug. 15.
Soap, Wet cleaning. Davies-Young Soap Company. No. 157,662; Aug. 15.
Soaps. A. Bourjois & Co. Nos. 157,646–7; Aug. 15.
Soaps. A. Papazian. No. 157,738; Aug. 15.
Soaps. John Wanamaker, Philadelphia. No. 157,792; Aug. 15.
Soaps and antiseptic cleansing powder, Certain. Northern Jobbing Company. No. 157,725; Aug. 15.
Soaps, Glove-cleaning. M. & N. Co. No. 157,708; Aug. 15.
Soaps, shaving creams, etc. V. Vivaudou, Inc. No. 157,785; Aug. 15.
Statements, auditors' reports, and bulletins. Audit Bureau of Circulations. No. 157,636; Aug. 15.
Strop dressing. J. S. Howard. No. 157,683; Apr. 15.
Sweaters. Knitwear Mfg. Co. No. 157,815; Aug. 15.
Sweaters, bathing suits, knitted jackets, etc. Crescent Company. No. 157,658; Aug. 15.
Sweeping compound. Pioneer Manufacturing Company. No. 157,743; Aug. 15.
Tables and stools, Foldable dining. Industrial Materials Co. No. 157,688; Aug. 15.
Tape, Bias seam. Economy Bias Binding Company. No. 157,808; Aug. 15.
Teeth, Powdered cleaner for false. Neo Products Co. No. 157,723; Aug. 15.
Textile piece goods. I. F. Harvey. No. 157,678; Aug. 15.
Toilet water. M. Shaffer Company. No. 157,835; Aug. 15.
Type cleaner, Nonspatter. S. S. Stafford, Inc. No. 157,771; Aug. 15.
Umbrellas and parasols. W. N. Stevenson & Co. No. 157,773; Aug. 15.
Voile cloths, Cotton. James Orr & Sons, Limited. No. 157,731; Aug. 15.
Washing compound. Barrington Manufacturing Corporation. No. 157,641; Aug. 15.
Washing Compound. United Chemical Products Company. No. 157,784; Aug. 15.
Washing compounds. S. Bernstein. No. 157,643; Aug. 15.
Washing powder. Rolly Chemical Co. No. 157,755; Aug. 15.

ALPHABETICAL LIST OF LABELS.

"A. C. Hynd's Hair-She-En." (For Bottles and Cartons and Packages Containing the Product Called by Said Name.) A. C. Hynd. No. 24,876; Aug. 15.
"A. C. Hynd's Hygienic Hairlife." (For Bottles and Cartons and Packages Containing the Product Called by Said Name.) A. C. Hynd. No. 24,877; Aug. 15.
"Chocolate Cake." (For Cake.) Schulze Baking Company. No. 24,889; Aug. 15.
"Dunbar's Pitcher Molasses." (For Molasses.) Dunbar Molasses & Syrup Co. No. 24,872; Aug. 15.
"Falcon." (For Packages and Boxes Containing Hairpins.) E. B. Dewey. No. 24,871; Aug. 15.
"Fruit Cake." (For Cake.) Schulze Baking Company. No. 24,887; Aug. 15.
"Gold Chain." (For Egg Cartons.) Wright & Parker Co. No. 24,901; Aug. 15.
"Golden Cake." (For Cake.) Schulze Baking Company. No. 24,886; Aug. 15.
"Hampshire Maid Bread." (For Bread.) Shawmut Mills. No. 24,894; Aug. 15.
"Handy Andy." (For Sealing Tape.) Liberty Paper Co. No. 24,878; Aug. 15.
"H. G. Prince & Co.'s Finest." (For Fruit Salad.) H. G. Prince & Co. No. 24,882; Aug. 15.
"Maple Nut Cake." (For Cake.) Schulze Baking Company. No. 24,891; Aug. 15.
"Marshmallow Layer Cake." (For Cake.) Schulze Baking Company. No. 24,890; Aug. 15.
"Mity-Nice." (For Wrappers for Toilet-Paper Rolls.) Anderson Paper & Twine Company. No. 24,868; Aug. 15.
"Null." (For a Preparation for Checking Perspiration.) Sheffield Pharmacal Co. No. 24,896; Aug. 15.
"Pimientillo." (For Tomatoes.) Bryant Produce Company. No. 24,869; Aug. 15.
"Poppy Brand Extra Choicest Basket Fired Japan Tea." (For Tea.) Mutual Supply Co. No. 24,881; Aug. 15.
"Raisin Cake." (For Cake.) Schulze Baking Company. No. 24,888; Aug. 15.
"Real Silk Super-Service Socks." (For Hose.) Real Silk Hosiery Mills. Nos. 24,883–4; Aug. 15.
"Rose Bud Brand Extra Fancy Basket Fired Japan Tea." (For Tea.) Mutual Supply Co. No. 24,880; Aug. 15.
"Sanitary Milk Bottle Holder." (For Covers for Milk-Bottle Holders.) C. Cohen. No. 24,870; Aug. 15.
"Satisfactoree." (For Apples.) Skookum Packers Association. No. 24,897; Aug. 15.
"Scotch Mist." (For a Beverage.) Henry-Brown Company, Inc. No. 24,875; Aug. 15.
"Schulze Quality Products." (For Bakery Products, Such as Bread, Doughnuts, Biscuit, and Cake.) Schulze Baking Company. No. 24,893; Aug. 15.
"Silver Cake." (For Cake.) Schulze Baking Company. No. 24,885; Aug. 15.
"Smucker's Pure Apple Butter." (For Apple Butter.) J. M. Smucker Co. No. 24,898; Aug. 15.
"Thompson & Company." (For Cigars.) Thompson & Company. No. 24,899; Aug. 15.
"Tommy Tucker Bread." (For Bread.) Shawmut Mills. No. 24,895; Aug. 15.
"Trufood." (For Breakfast Cereal.) G. W. Farney. No. 24,873; Aug. 15.
"True-Torten Cake." (For Cake.) Schulze Baking Company. No. 24,892; Aug. 15.
"Van-Guard." (For Toilet Paper.) Fort Howard Paper Company. No. 24,874; Aug. 15.
"White Rose." (For Bread.) Massachusetts Baking Company. No. 24,879; Aug. 15.
"Yorkwin." (For Fresh Fruit.) Western New York Fruit Grower's Co-Operative Packing Ass'n, Inc. No. 24,900; Aug. 15.

ALPHABETICAL LIST OF PRINTS.

"Complete In a Sack." (For Advertising Purposes for "Elastica," an Exterior Wall Plaster or Stucco.) U. S. Materials Co. No. 6,271; Aug. 15.
"Eaton's Highland Linen The Correct Writing Paper." (For Advertising Purposes for Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 6,261; Aug. 15.
"Elastica." (For Advertising Purposes for an Exterior Wall Plaster or Stucco.) U. S. Materials Co. No. 6,270; Aug. 15.
"Goody Cake." (For Advertising Purposes for Candy Bars.) Milwaukee Paper Box Company. No. 6,266; Aug. 15.
"Heinz Fruits and Vegetables are grown in the Garden Spots of the World." (For Advertising Purposes for Heinz 57 Varieties of Products.) H. J. Heinz Co. No. 6,262; Aug. 15.
"Krank's Lemon Cleansing Cream." (For Advertising Purposes for a Cleansing Cream.) A. J. Krank. No. 6,263; Aug. 15.
"Perfection Peanut-Cream Bar." (For Advertising Purposes for a Peanut and Cream Bar.) Milwaukee Paper Box Company. No. 6,267; Aug. 15.
"Rice's Early Fortune Cucumber." (For Advertising Purposes for Cucumbers.) Jerome B. Rice Seed Co. No. 6,268; Aug. 15.
"Snap-On More than a Curtain Rod." (For Advertising Purposes for a Curtain Rod.) S. W. Long. No. 6,264; Aug. 15.
"'The Best Policy'." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,260; Aug. 15.
"The Last Word In Obstetrics." (For Advertising Purposes for Obstetrical Tables.) J. H. Thomsen. No. 6,269; Aug. 15.
"Travella The Take-Down Umbrella Lessens Travel Worries." (For Advertising Purposes for Umbrellas.) W. Beehler. No. 6,259; Aug. 15.
"Winner." (For Advertising Purposes for Candy Bars.) Milwaukee Paper Box Company. No. 6,265; Aug. 15.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aprons and apron dresses. Sopkin Brothers. No. 159,181; Aug. 15.
Automobile brakes and parts thereof. A-C Manufacturing Co. No. 158,745; Aug. 15.
Automobile locks. F. M. Fish. No. 151,453; Aug. 15.
Automobile top dressing, mohair dressing, and windshield-vision preparation. American Motor Chemical Corporation. No. 151,648; Aug. 15.
Automobile wheel locks. J. W. Shepard. No. 156,302; Aug. 15.
Automobile windshields from becoming coated over with rain, etc., Preparation to prevent. R. G. Potter. No. 162,503; Aug. 15.
Baking machines and parts of machines for making wafer biscuits, etc. Bates Engineering Company. No. 156,559; Aug. 15.
Balls, Golf. Faultless Rubber Company. No. 165,233; Aug. 15.
Batteries and connectors therefor and battery charges, Secondary. Westinghouse Union Battery Co. No. 165,433; Aug. 15.
Batteries and parts thereof, Electric storage. Unique Brass Foundry Company, Inc. No. 166,116; Aug. 15.
Batteries and storage-battery boxes and containers, Storage. Stewart Storage Battery Company. No. 166,110; Aug. 15.
Beans and pork and canned fruits. Great Atlantic and Pacific Tea Company, The. No. 126,316; Aug. 15.
Bedspreads and pillow shams. Marshall Field & Company. No. 164,884; Aug. 15.
Bedspreads and pillow shams. Marshall Field & Company. Nos. 164,886–7; Aug. 15.
Bedspreads and pillow shams. Marshall Field & Company. Nos. 164,889–90; Aug. 15.
Belts, belting, and elastic. Governor Fastener Company. No. 155,018; Aug. 15.
Belts, Power-transmitting. Durkee-Atwood Co. No. 140,421; Aug. 15.
Beverage made of fruit juices and sirups for making same. John Chmiell Co. No. 132,426; Aug. 15.
Beverage, Nonalcoholic, maltless fruit-juice. Western Fruit Products Co. No. 165,469; Aug. 15.

Beverage sold as a soft drink. Purity Beverage Company. No. 163,108; Aug. 15.
Beverage sold as a soft drink and sirups for making same. Hurty-Peck & Company. No. 145,896; Aug. 15.
Beverage sold as a soft drink, Nonalcoholic, maltless. E. M. Lowman. No. 150,151; Aug. 15.
Beverages and flavors and extracts for making same. Keystone Fruit Products Company. No. 143,500; Aug. 15.
Beverages sold as soft drinks. Ella Gabay & Co. No. 165,442; Aug. 15.
Beverages sold as soft drinks and sirups for making the same. C. Koch. No. 165,446; Aug. 15.
Beverages sold as soft drinks and sirups used in preparation of the same. Independent Breweries Company. No. 165,381; Aug. 15.
Books, pamphlets, and like printed publications. Methodist Child Welfare Society. No. 159,519; Aug. 15.
Boots and shoes. A. W. Smith Shoe Company. Nos. 160,158–9; Aug. 15.
Boots and shoes, Leather. John Bright Shoe Stores Co. No. 160,653; Aug. 15.
Boots and shoes, Leather. H. J. Justin & Sons. No. 161,555; Aug. 15.
Boots, shoes, and slippers, Men's, women's, and children's. Cahill Shoe Company. No. 159,742; Aug. 15.
Bottles, fountain syringes, and combination water bottles, and syringes, Hot water. Worcester Pressed Aluminum Company. No. 143,305; Aug. 15.
Brace for a running-board support, automobile wheels, rims, and tires. E. Prehn. No. 156,656; Aug. 15.
Brushes and brooms. Lafayette Brush & Manufacturing Co. No. 162,259; Aug. 15.
Brushes, Painting, varnishing, etc. John L. Whiting-J. J. Adams Company. No. 139,768; Aug. 15.
Brushes, Painting, varnishing, etc. John L. Whiting-J. J. Adams Company. No. 139,836; Aug. 15.
Brushes, Toilet. John L. Whiting-J. J. Adams Company. No. 140,232; Aug. 15.
Brushes, Painting, varnishing, etc. John L. Whiting-J. J. Adams Company. No. 140,368; Aug. 15.
Brushes, Tooth, hair, lather or shaving, and bath. Stewart & Holmes Drug Co. No. 163,190; Aug. 15.
Buckles and buckles and clasps for shoes and slippers, Belt. Riker Company. No. 156,973; Aug. 15.
Buckles and buckles and clasps for shoes and slippers, embroidery and crochet needles, etc., Belt. Riker Company. No. 156,974; Aug. 15.
Cameras, photographic films on spools, film packs, etc. Gevaert Photo Produkten. Nos. 158,861–3; Aug. 15.
Candies. G. C. Beidler. No. 151,033; Aug. 15.
Candies. J. H. Doran. No. 158,825; Aug. 15.
Candies. C. E. Gheens. No. 155,749; Aug. 15.
Candies. J. W. Meyer. No. 156,969; Aug. 15.
Candies. Wiener & Bieber. No. 152,148; Aug. 15.
Candy. Alpine Chocolates Company. No. 146,680; Aug. 15.
Candy. Chocolate Products Co. No. 158,111; Aug. 15.
Candy. W. A. Hicks. No. 158,527; Aug. 15.
Canned berries, fruits, and vegetables. W. N. Clark Company. No. 158,222; Aug. 15.
Canned fruits, vegetables, fish, crab meat, molasses, mincemeat, and pickles. Const Products Company. No. 115,242; Aug. 15.
Canned vegetables and fruits. Paxton & Gallagher Co. No. 157,948; Aug. 15.
Cards, Playing. Standard Playing Card Co. No. 166,325; Aug. 15.
Cards, Playing. United States Playing Card Company. No. 166,023; Aug. 15.
Carpet sweepers. Jordan Marsh Company. No. 159,971; Aug. 15.
Castings and forgings, etc., Iron and steel. P. & M. Co. No. 148,344; Aug. 15.
Castings, High-temperature metal. Electro Alloys Company. No. 160,004; Aug. 15.
Castings, Iron and steel. Millbury Steel Foundry Company. No. 118,233; Aug. 15.
Cement plaster, wood-fiber plaster, Portland cement, stucco, gypsum finish, plaster board, etc. Cutler-Magner Co. No. 163,432; Aug. 15.
Cements and concrete hardener, Roofing and joint. Argus Manufacturing Company. No. 158,812; Aug. 15.
Cheese and preserved cheese. Gebruder Joost. No. 154,652; Aug. 15.
Chemicals and dyestuffs. Ste An de Couleurs d'Aniline et Products Chimiques, S. A. C. A. No. 160,724; Aug. 15.
Chocolates, Assorted. National Drug Stores Corp. No. 157,497; Aug. 15.
Ciders. Duffy-Mott Company. No. 165,069; Aug. 15.
Ciders. Duffy-Mott Company. No. 165,071; Aug. 15.
Ciders. Duffy-Mott Company. No. 165,073; Aug. 15.
Ciders. Duffy-Mott Company. No. 165,075; Aug. 15.
Ciders and fruit juices. Duffy-Mott Company. No. 165,066; Aug. 15.
Cigar lighter, Electric. M. H. Shoenberg. No. 163,713; Aug. 15.
Cleanser (abrasive) for cleaning tile, marble, etc. Poland Soap Works. No. 161,049; Aug. 15.
Clothing. Gold Mark Knitting Co. No. 156,897; Aug. 15.
Clothing, Men's and young men's. Style Center Tailoring Company. No. 157,977; Aug. 15.
Cloths for cleaning silver and gold, Specially-treated. Mozell Manufacturing Company. No. 162,034; Aug. 15.
Coal. N. B. Braly. Nos. 148,054–5; Aug. 15.
Cocoa and chocolate. F. & H. Turner Limited. No. 147,745; Aug. 15.
Condenser, Electrical. Mcirowsky Brothers. No. 165,198; Aug. 15.
Condensers, Electrical. Dubilier Condenser Co. No. 163,036; Aug. 15.
Cooking vessels. Nifty Jar & Cooker Manufacturing Company. No. 157,843; Aug. 15.
Coolers. H. N. Searles. No. 159,287; Aug. 15.
Corsets, brassières, hats, caps, and women's and children's dresses. R. H. White Company. No. 159,071; Aug. 15.
Cotton muslin, Bleached. J. C. Penney Company. No. 158,647; Aug. 15.
Cotton piece goods. York Mfg. Co. No. 163,558; Aug. 15.
Cotton piece goods and woolen dress goods. M. Silverman & Son. No. 165,041; Aug. 15.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 165,880; Aug. 15.
Crayons and the labels of same. Ullman Manufacturing Co. No. 163,904; Aug. 15.
Cultures of nitrifying bacteria, Liquid. Nitro-Bacter Soil Vaccine Corporation. No. 142,265; Aug. 15.
Dental syringes. E. F. Goldberg. No. 146,432; Aug. 15.
Dictionaries. G. & C. Merriam Company. No. 162,831; Aug. 15.
Disinfectants. Washington Laboratories, Inc. No. 157,869; Aug. 15.
Doll clothes, Ready-to-make. Reitman Mfg. Co. No. 141,504; Aug. 15.
Dolls. M. M. Levy. No. 166,383; Aug. 15.
Dolls. Joseph Meer, Inc. No. 161,442; Aug. 15.
Dolls. L. C. Worrell. No. 166,336; Aug. 15.
Douche, Nasal. W. W. Winberg. No. 145,382; Aug. 15.
Drapery fabrics, draperies, and piece goods for drapery cloth. E. H. Behrens & Co. No. 164,303; Aug. 15.
Drawers, Women's closed. A. Heuser. No. 158,184; Aug. 15.
Dresses, Children's. Brohman Company. No. 152,910; Aug. 15.
Dresses, Children's. Natalie. No. 159,385; Aug. 15.
Dresses, middy blouses, shirt waists, and skirts, Children's. Biberman Brothers, Inc. No. 158,752; Aug. 15.
Dresses, Tailor-made. Greenwald, Friedman & Co. No. 158,387; Aug. 15.
Dresses, Women's. J. Foote. No. 149,584; Aug. 15.
Drilling machines, multiple-spindle drilling machine, etc., Single-spindle. Foote-Burt Company. No. 160,241; Aug. 15.
Electrical apparatus. Pacent Electric Company. No. 165,709; Aug. 15.
Electrical box connectors. Tubular Woven Fabric Company. No. 163,060; Aug. 15.
Electrical controlling devices. Allen-Bradley Company. No. 165,657; Aug. 15.
Electrical vacuum tubes and valves. Radio Corporation of America. Nos. 164,832–3; Aug. 15.
Engines, steam engines, and all kinds of agricultural machines, etc., Internal-combustion. Arthur Mueller Bauten und Industriewerke. No. 142,315; Aug. 15.
Eye medicine. A. L. Vickery. No. 161,463; Aug. 15.
Fans, Electric. Singer Manufacturing Company. No. 165,606; Aug. 15.
Fans, Hand fire. R. C. Sturgis. No. 162,585; Aug. 15.
Feed, Poultry. International Sugar Feed Co. No. 117,492; Aug. 15.
Feed, Poultry. Tioga Mill & Elevator Co. No. 152,814; Aug. 15.
Feed, Stock. Albers Bros. Milling Co. No. 142,002; Aug. 15.
Fiber board. Agasote Millboard Co. No. 158,170; Aug. 15.
Files. Service Tool Company. No. 158,691; Aug. 15.
Fishing lines. Cortland Line Co. No. 164,360; Aug. 15.
Fishing lines. Cortland Line Co. No. 164,388; Aug. 15.
Flour, Self-rising wheat. Bernet, Craft & Kauffman Milling Co. No. 152,944; Aug. 15.
Flour, Wheat. Commercial Union of America. Nos. 154,431–2; Aug. 15.
Forgings and analogous metal manufactures, Metal. General Railway Signal Company. No. 161,311; Aug. 15.
Frocks. Jesse Woolf Co. No. 145,297; Aug. 15.
Fruit and mincemeat, fruit preserves, jams, marmalades, etc., Preserved. Allison-Bedford Co. No. 151,605; Aug. 15.
Fruits, Fresh deciduous. White Bros. & Crum Co. No. 158,350; Aug. 15.
Game, Parlor table. B. Blankman. No. 154,115; Aug. 15.
Gauges. Manning, Maxwell & Moore, Inc. No. 157,934; Aug. 15.
Ginger ale, lemon soda, sarsaparilla. Hatfield & Bell. No. 164,164; Aug. 15.
Glass panes or the like, Material used for cleaning. P. H. White. No. 155,849; Aug. 15.

Gloves, Fabric. Goldenberg's. No. 154,141; Aug. 15.
Grinding and polishing stones. Acme Abrasive Company. No. 161,021; Aug. 15.
Gum, Chewing. Dudley Gum Company. No. 154,966; Aug. 15.
Gun wads. Bond Manufacturing Corporation. No. 166,633; Aug. 15.
Hair nets. Armand Company. No. 163,305; Aug. 15.
Hair nets. Kaufman Bros. No. 158,315; Aug. 15.
Hair nets. William T. Palmer & Company. No. 160,029; Aug. 15.
Hair waversi. Hayes & Meserole Mfg. Co. No. 162,737; Aug. 15.
Hairpins. S. Beaumont & Fils. No. 160,382; Aug. 15.
Hats and caps, Men's, young men's, and boys'. Strawbridge & Clothier. No. 159,817; Aug. 15.
Horns, Diaphragm. Seiss Manufacturing Company. No. 166,206; Aug. 15.
Ice cream. City Dairies Company. No. 159,235; Aug. 15.
Ice cream. J. D. Roszell. No. 158,096; Aug. 15.
Ice cream and ice cream coverst with chocolate. Russell Stover Company. No. 158,455; Aug. 15.
Insulated wire. Detroit Insulated Wire Company. No. 166,046; Aug. 15.
Jacks. Auto Specialties Manufacturing Co. No. 155,795; Aug. 15.
Journal, Monthly medical. Radium Company of Colorado. No. 159,107; Aug. 15.
Laces, Shoe. Hutmacher Braiding Company. No. 156,629; Aug. 15.
Lamps, Electric. L. Kulp. No. 165,961; Aug. 15.
Leather novelties. Elwood Myers Co. No. 157,674; Aug. 15.
Lenses, Ophthalmic. Baltimore Optical Company. No. 161,108; Aug. 15.
Linen and hemp goods, being goods in the piece. "Old Bleach" Linen Company Limited. No. 133,488; Aug. 15.
Magazine. Dell Publishing Co. No. 163,039; Aug. 15.
Magazine, Monthly. Heating and Ventilating Magazine Co. No. 162,337; Aug. 15.
Magazine, Monthly. Trestle Board. No. 163,718; Aug. 15.
Magazine, Monthly. Western Machinery World. No. 163,423; Aug. 15.
Magazines. R. Kanofsky. No. 165,195; Aug. 15.
Marshmallow and chocolate creams. Mary Heath Company. No. 158,041; Aug. 15.
Medicine for coughs and colds. T. J. Cuzalina. No. 159,849; Aug. 15.
Metal, solder, machinery parts made of castings, and rails, Antifriction. Gomez & Sloan, Inc. No. 153,401; Aug. 15.
Millinery and other headgear. Millinteria, Inc. No. 158,881; Aug. 15.
Mixers, Electrical drink. Magnetic Drink Mixer Company. No. 163,042; Aug. 15.
Molasses. Boston Molasses Company. No. 158,213; Aug. 15.
Molding machines, Foundry. John MacDonald & Son Limited. No. 159,425; Aug. 15.
Mops, dusters, and household brushes. Somerville Brush Company. No. 163,544; Aug. 15.
Mops, Dusting. Lafayette Brush & Manufacturing Co. No. 161,439; Aug. 15.
Negligee and dress shirts and waistcoats. Earl & Wilson. No. 159,413; Aug. 15.
Nuts, Shelled, raw, roasted, and salted pinon. F. S. Spitz. No. 159,433; Aug. 15.
Oil, Olive. Edson Brothers. No. 135,320; Aug. 15.
Oil, Sewing-machine. Puritan Drug Mfg. Co. No. 146,652; Aug. 15.
Oils and greases, Lubricating. Lincoln Motor Company. No. 142,759; Aug. 15.
Ointment for treatment of eczema. F. S. Seligmann. No. 165,564; Aug. 15.
Oranges, Fresh. Strathmore Co-Operative Association. No. 157,962; Aug. 15.
Overalls. Louisville Furnishing Goods Co. No. 159,362; Aug. 15.
Overalls and work shirts. A. W. Overall Company. No. 155,233; Aug. 15.
Overalls, Jackets, work shirts, dust coats, auto coats, etc. Friedman Brothers Inc. No. 139,457; Aug. 15.
Overcoats and suits, Men's. Jaffe, Feingold & Wiener. No. 157,487; Aug. 15.
Package of boys' athletic goods, Combination. Ken-Wel Sporting Goods Company. No. 164,924; Aug. 15.
Package outfit containing a ready-cut garment, stamped for embroidery and cotton for working the same. John Taylor Dry Goods Co. No. 161,598; Aug. 15.
Paint, Preserving. R. Avenarius & Co. No. 144,059; Aug. 15.
Paints and putty. M. I. Wilcox Company. No. 157,198; Aug. 15.
Paints, Enamel. Toch Brothers. No. 157,504; Aug. 15.
Pamphlet, Monthly. Bachmeyer-Lutmer Press Company. No. 161,872; Aug. 15.
Pants, Running. Robert Reis & Co. No. 160,152; Aug. 15.
Paper, Cigarette. Societe Anonyme des Anciens Etablissements Braunstein Freres. No. 152,190; Aug. 15.
Paper published daily, Afternoon. Louisville Times Company. No. 165,059; Aug. 15.
Paper toweling and napkins. United States Paper Mills, Inc. No. 165,573; Aug. 15.
Periodical, Monthly. Butterick Publishing Company. No. 164,747; Aug. 15.
Periodical, Monthly. Fuller Brush Company. No. 163,624; Aug. 15.
Petroleum for illuminating, heating, and power purposes, Refined. Standard Oil Company of New York. No. 150,766; Aug. 15.
Petroleum jelly. Chesebrough Manufacturing Co. Consolidated. No. 160,996; Aug. 15.
Pharmaceutical preparation. F. M. Toohey Drug Co. No. 158,342; Aug. 15.
Pharmaceutical preparations. W. F. Hayn. No. 161,313; Aug. 15.
Photographic films. Luporini Bros. No. 146,446; Aug. 15.
Photographic prints. K. E. Anderson. No. 163,560; Aug. 15.
Photographs, prints, and publications. Bachrach, Incorporated. No. 158,700; Aug. 15.
Pick heads. Boston Detachable Point Pick Co. No. 159,557; Aug. 15.
Picture films, Motion. American Releasing Corporation. No. 160,920; Aug. 15.
Picture frames and hand mirrors. James McCreery & Company. No. 162,124; Aug. 15.
Plates, Tin. Melyn Tin Plate Company, Limited, The. Nos. 159,660–2; Aug. 15.
Plugs, Attachment. Cutler-Hammer Mfg. Co. No. 163,035; Aug. 15.
Pocketknives. Dollar Knife Corporation. No. 158,671; Aug. 15.
Polishes and lacquers. Polustre Co. No. 157,006; Aug. 15.
Polishing or burnishing material for metal parts. H. L. Beaver. No. 162,332; Aug. 15.
Powder for treatment of eczema. F. Seligmann. No. 165,565; Aug. 15.
Powder, lavender lotion, bleaching lotion, peroxide, etc., Face. Western Hair Company. No. 152,112; Aug. 15.
Powder puffs. W. Ellowitz. No. 161,530; Aug. 15.
Powder puffs. E. Fuller. No. 164,700; Aug. 15.
Powder puffs. S. Glemby's Sons Co. No. 164,426; Aug. 15.
Powder puffs. Western Bottle Manufacturing Company. No. 165,974; Aug. 15.
Preparation for growing hair. E. M. Barnett. No. 159,681; Aug. 15.
Publication, Monthly. Digest Publishing Company. No. 131,785; Aug. 15.
Publication, Monthly. Greek Confectioner Publishing Co. No. 165,492; Aug. 15.
Publication, Monthly. Skookum Packers Association. No. 159,434; Aug. 15.
Publication, Weekly. R. B. Hennessy. No. 164,249; Aug. 15.
Publications, Biweekly. The "Associates." No. 162,794; Aug. 15.
Puzzles. A. I. Ekstrom. No. 147,770; Aug. 15.
Radio code-memorizing charts and pamphlets and books relating to radiotelegraphy. C. K. Dodge. No. 162,485; Aug. 15.
Radio receiving sets and sending sets and parts thereof. De Witt-La France Co. No. 164,697; Aug. 15.
Radio telephone and telegraph loud speakers and amplifiers. Westinghouse Electric & Manufacturing Company. No. 165,321; Aug. 15.
Radio telephone and telegraph purposes, Condensers for. Dubilier Condenser & Radio Corporation. No. 165,623; Aug. 15.
Radio telephone jacks and plugs and radio bulb sockets. Champion Radio Co. No. 164,800; Aug. 15.
Radio-tube mounting. J. Roy Hunt, Inc. No. 164,438; Aug. 15.
Radio receiving sets. L. S. Rapport. No. 164,117; Aug. 15.
Remedies for the treatment of colds, sore throat, headache, etc. A. B. Green. No. 161,357; Aug. 15.
Rubber heels for shoes. F. Redman. No. 161,385; Aug. 15.
Safety boxes for valuables. Steel Can't Steal Box Corporation. No. 160,212; Aug. 15.
Seeds, Field and grass. Doughten Seed Company. No. 147,715; Aug. 15.
Shims. J. L. Bredar. No. 159,555; Aug. 15.
Shirts, Bed. R. K. Viles. No. 153,380; Aug. 15.
Shoes. S. J. Brouwer Shoe Company. No. 149,119; Aug. 15.
Shoes. T. F. Emans. No. 160,285; Aug. 15.
Shoes. Timson Bros. Inc. No. 155,938; Aug. 15.
Shoes, Leather. O. E. De Ridder. No. 162,386; Aug. 15.
Shoes, Leather. Endicott Johnson Corporation. No. 161,308; Aug. 15.
Shoes, Women's and children's. Craddock Terry Company. No. 162,244; Aug. 15.
Silk and silk-mixture fabrics in the piece. Wechsler Barber Silk Co. No. 162,961; Aug. 15.
Silks in the piece, Broad. Schwarzenbach Huber Co. No. 164,671; Aug. 15.
Sirup used as a flavor in a nonalcoholic beverage, Concentrated maltless. G. Poulos. No. 160,256; Aug. 15.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Skins and furs, Raw. J. D. Williams, Inc. No. 160,782; Aug. 15.
Slabs and sheets of rubber composition material particularly for shoe soles. J. E. Cable. No. 160,660; Aug. 15.
Slippers of felt or fabric, Decorated. Vernart Manufacturing Corp. No. 150,171; Aug. 15.
Soap. Packer Manufacturing Company. No. 163,351; Aug. 15.
Soap cleaners. Mirrorlike Mfg. Co. No. 162,129; Aug. 15.
Soap flakes. Chicago Soap Products Company. No. 163,499; Aug. 15.
Soaps. F. H. Young. No. 162,090; Aug. 15.
Soil, Plumbers'. Bergman Specialty Co. No. 159,242; Aug. 15.
Sporting goods and toys. Pogo-Werke G. m. b. H. No. 157,595; Aug. 15.
Stains and finishes. Benjamin Moore & Co. No. 154,605; Aug. 15.
Stamping and marking devices. W. H. Wade. No. 159,907; Aug. 15.
Stools. M. & M. Wood Working Co. No. 142,157; Aug. 15.
Sugar. Anaheim Sugar Company. No. 156,512; Aug. 15.
Sugar, Beet, cane, and maple. Union Sugar Company. No. 158,344; Aug. 15.
Suits and dresses, Misses'. Bernstein & Shulman. No. 145,934; Aug. 15.
Suits, pants, and trousers, coats, and vests, Men's and youths'. I. & B. Cohen, Bomzon Co. No. 155,214; Aug. 15.
Surgical instruments and hospital supplies. Chas. A. Schmidt Instrument Company. No. 149,602; Aug. 15.
Swimming or bathing devices. Regina Swimming Devices Co. No. 149,358; Aug. 15.
Switches, Electric socket and other. Shawmut Machine Works, Inc. No. 157,113; Aug. 15.
Talking-machine records. Wallace Institute. No. 161,712; Aug. 15.
Thermostats, Plain and clock. American Radiator Company. No. 132,771; Aug. 15.
Tire tubes. United States Tire Company. No. 143,628; Aug. 15.
Toilet articles. J. Salm. Nos. 143,963–4; Aug. 15.
Tonic, Liquid. General Laboratories. No. 153,841; Aug. 15.
Tooth paste. J. A. Hathaway. No. 157,097; Aug. 15.
Toy balloons. Eagle Rubber Co. No. 164,311; Aug. 15.
Toys and playthings. Kammer & Reinhardt A. G. No. 163,681; Aug. 15.
Transmission or crank-casing parts. Hudson Motor Specialties Company. No. 158,773; Aug. 15.
Trunks, traveling cases and bags, etc. Tophams. No. 156,976; Aug. 15.
Twine. Samson Cordage Works. No. 156,179; Aug. 15.
Undergarments, Women's. Brown-Freeman Company. No. 155,479; Aug. 15.
Underwear. Philipsborn's, Inc. No. 157,533; Aug. 15.
Underwear, Textile-fabric. H. H. Hess. No. 160,062; Aug. 15.
Underwear, Women's silk and muslin. Brown & Silverman. No. 148,419; Aug. 15.
Utensils, Aluminum cooking. Jones Store Co. No. 161,257; Aug. 15.
Varnishes, polishes, colors, wood stains, etc. F. O. Pierce Company. No. 142,295; Aug. 15.
Velocipedes. Sheffield Mfg. Co. No. 165,425; Aug. 15.
Walnut meats and peanuts in their natural state. E. W. Frazar. No. 156,365; Aug. 15.
Washing powder. Poland Soap Works. No. 162,850; Aug. 15.
Whip powder. Hirsch Brothers Company. No. 157,924; Aug. 15.
Windshield visors. F & W Manufacturing Company. No. 153,394; Aug. 15.
Wireless antenna plug. F. H. Roseman. No. 165,208; Aug. 15.
Wireless receiving outfits in one complete unit enclosed in a cabinet. R. A. McKinney. No. 163,455; Aug. 15.
Wires for conducting electricity. J. L. Lohfeld & Co. No. 163,452; Aug. 15.
Woodworking machinery. Jones Superior Machine Company. No. 158,930; Aug. 15.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 15, 1922.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 6: 1,425,553
8.2: 1,425,774
18.1: 1,425,516
35: 1,425,540
47: 1,426,249
2— 84: 1,425,606
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1,425,795
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152: 1,425,880
4— 5: 1,426,094
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5— 3: 1,425,952
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102: 1,425,584
32— 9: 1,426,114
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54— 80: 1,425,676
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113— 42: 1,426,000
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156— 23: 1,425,996
158— 7.5: 1,425,551
46.5: 1,425,681
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166— 5: 1,425,888
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185— 40: 1,425,963

185— 43: 1,426,128
186— 14: 1,425,740
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188— 32: 1,426,164
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279— 100: 1,425,724
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1,426,158
105: 1,426,009
302— 30: 1,426,135
303— 85: 1,426,061
305— 33: 1,426,316

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF AUGUST, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aagaard, Otto W., Chicago, Ill. Cushion for telephone receivers. No. 1,426,340; Aug. 22.

Abbott Incorporated. (See Abbott, William E., assignor.)

Abbott, William E., assignor to Abbott Incorporated, Bend, Oreg. Washboard. No. 1,427,048; Aug. 22.

Achenbach, Lewis H., Pottsville, Pa. Bee feeder. No. 1,426,701; Aug. 22.

Adam, Joseph F., Marengo, Saskatchewan, Canada. Attachment for shovels. No. 1,426,442; Aug. 22.

Adams, Arthur H., Galion, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraph. No. 1,426,803; Aug. 22.

Adams, Arthur H., Galion, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Typewriter. No. 1,426,804; Aug. 22.

Adams, Charles H. (See Janes, E. R., and Adams.)

Aikens, Thomas N., assignor of one-half to D. D. Walker, Lakewood, Ohio. Tubular sheet-metal spoke for vehicle wheels. No. 1,426,942; Aug. 22.

Albert, Frank J. (See Gitzendanner, P., and Albert.)

Albinson, James E., Washington, D. C. Pipe vise stand. No. 1,426,531; Aug. 22.

Aldrich, William O., assignor to Whitin Machine Works, Whitinsville, Mass. Flier. No. 1,426,443; Aug. 22.

Alexander, Harry H., Westfield, N. J., assignor to American Smelting & Refining Company. Recovering tin. No. 1,426,341; Aug. 22.

Alexander, Arthur A., and B. Morgenthau, New York, N. Y. Lock. No. 1,426,805; Aug. 22.

Alexanderson, Ernest F. W., Schenectady, N. Y., assignor to General Electric Company. High-frequency alternator. No. 1,426,943; Aug. 22.

Alexanderson, Ernest F. W., Schenectady, N. Y., assignor to General Electric Company. Radiosignaling system. No. 1,426,944; Aug. 22.

Allen, Austin O., Merchantville, N. J., assignor to John Lucas & Co., Inc., Philadelphia, Pa. Manufacturing arsenate of lead. No. 1,427,049; Aug. 22.

Allen, Willis H., Syracuse, N. Y. Chime attachment for clocks. No. 1,426,806; Aug. 22.

Allender, Charles W. G., Denver, Colo. Clamp for protecting tires. No. 1,426,532; Aug. 22.

Allis-Chalmers Manufacturing Company. (See Cheney, Herbert W., assignor.)

Allison, Daniel K., Milwaukee, Wis. Machine for mixing dough. No. 1,426,444; Aug. 22.

Alseth, Stengrim, Osakis, Minn. Flytrap. No. 1,427,050; Aug. 22.

Altman, William O., Westline, Pa. Clothesline. No. 1,427,051; Aug. 22.

Aluminum Manufacturers, Incorporated. (See Hook, Henry C., assignor.)

American Arch Company. (See Neff, John P., assignor.)

American Bosch Magneto Corporation. (See Schwarzmann, Wolfgang E., assignor.)

American Manganese Steel Company. (See Nichols, Wesley G., assignor.)

American Milling Co. (See Chindbloom, Carl J., assignor.)

American Optical Company. (See Arnold, Arthur A., assignor.)

American Optical Company. (See Cozzens, Charles O., assignor.)

American Optical Company. (See Sheard, C., and Tillyer, assignors.)

American Separator Company, The. (See Collins, Thomas, assignor.)

American Sheet and Tin Plate Company. (See Lorig, E. T., and McIlvried, assignors.)

American Smelting & Refining Company. (See Alexander, Harry H., assignor.)

American Telephone and Telegraph Company. (See Pierce, Ralph E., assignor.)

American Whaley Engine Company. (See Whaley, William B. S., assignor.)

American Wringer Company. (See Webster, Henry A., assignor.)

Anchor Cap and Closure Corporation. (See Scofield, Edgar, assignor.)

Anderson, Frank C., Portland, Me. Securing device. No. 1,426,945; Aug. 22.

Anderson, Henry G., Inwood, Iowa. Collar saddle. No. 1,426,533; Aug. 22.

Anderson, Olaf A., Hamilton, Ohio. Door latch. No. 1,426,445; Aug. 22.

Anthon, George C., New York, N. Y., assignor to Stanley Insulating Company, Great Barrington, Mass. Heat-insulated receptacle. No. 1,426,446; Aug. 22.

Anthracite Separator Company. (See Pardee, F., jr., and Lyon, assignors.)

Apfel, Philip F., assignor of one-half to W. E. Mather, Seattle, Wash. Thermostatic switch. No. 1,426,447; Aug. 22.

Arentz, Fred B. (See Backhaus, A. A., and Arents.)

Arnold, Arthur A., assignor to American Optical Company, Southbridge, Mass. Glass cutter. No. 1,427,052; Aug. 22.

Arnold, Harold D., and J. P. Minton, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and system for testing transmitters or receivers. No. 1,426,807; Aug. 22.

Ashley, Eustace E. et al. (See Trane, Raymond, assignor.)

Atack, Frederick W. (See Haworth, W. N., and Atack.)

Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,426,702; Aug. 22.

Austin, Albert L., Cleveland, Ohio, assignor to V. Grande and A. J. Ferris, New York, N. Y. Motor-vehicle signal. No. 1,426,448; Aug. 22.

Autopoint Pencil Company. (See Keeran, C. R., and Taylor, assignors.)

Avery, David, Melbourne, Victoria, R. H. Stevens, and R. T. D. Williams, Risdon, Hobart, Tasmania, assignors to Electrolytic Zinc Company of Australia, Proprietary Limited, Melbourne, Victoria, Australia. Electrolytic treatment of ores containing zinc, cadmium, and copper. No. 1,426,703; Aug. 22.

Axelsson, Johan A., Eskilstuna, Sweden. Chuck. No. 1,426,704; Aug. 22.

Babcock, Charles W., Waterloo, Iowa. Auxiliary locking means for vaults. No. 1,426,946; Aug. 22.

Backhaus, Arthur A., Baltimore, and F. B. Arents, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co. Apparatus for making aldehydes and separating the same from the other products formed. No. 1,426,449; Aug. 22.

Badger Manufacturing Corporation. (See Hathaway, C. H., and Starck, assignors.)

Badische Anilin & Soda Fabrik. (See Bosch, Carl, assignor.)

Bailey, Charles H., Cleveland, Ohio. Flowerpot. No. 1,426,808; Aug. 22.

Baker, Howard A., El Paso, Tex. Wheel-locking device. No. 1,426,534. Aug. 22.

Baker, Joseph, Sons and Perkins Limited. (See Prescott, William E., assignor.)

Baker Manufacturing Corporation. (See Case, John J., assignor.)

Baker, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Brake mechanism. No. 1,426,450; Aug. 22.

Balkwell, Wesley J. (See Schweiger, W. F., and Balkwell.)

Bancroft, Erwin P. (See Phaunenstiehl, H., and Bancroft.)

Barcalo Manufacturing Company. (See Illig, George D., assignor.)

Barnes Scale Company. (See King, Bert W., assignor.)

Barton, Edward D., Canon City, Colo. Rope or strap fastener. No. 1,426,535; Aug. 22.

Bate, John W., Racine, Wis. Collapsible handle. No. 1,426,809; Aug. 22.

Bateman, St. Elmo, Los Angeles, Calif. Fumigating apparatus. No. 1,426,536; Aug. 22.

Bates, Arthur, Leicester, England, assignor by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. No. 1,426,342; Aug. 22.

Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for attaching uppers to soles in the manufacture of shoes. No. 1,426,343; Aug. 22.

Bauer, Carl E., Hammond, Ind. Fulcrum and making the same. No. 1,426,705; Aug. 22.

Bauer, Christopher W., Brooklyn, N. Y. Cordage hitching device. No. 1,426,537; Aug. 22.

Baun, Carl, Halle-on-the-Saale, Germany. Driving mechanism for rope and chain railways. No. 1,426,451; Aug. 22.

Beattie, Clifford H., Waxahachie, Tex. Unloading apparatus. No. 1,426,706; Aug. 22.

Beatty, William E., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Repeater system. No. 1,426,810; Aug. 22.

Belcher Aerial Manufacturing Company. (See Belcher, Osmond T., assignor.)

Belcher, Osmond T., Los Angeles, Calif., assignor to Belcher Aerial Manufacturing Company. Fabricated covering for aeroplanes. No. 1,426,626; Aug. 22.

Bell's United Asbestos Company Limited. (See Cann, J. A., and Burrows, assignors.)

Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric switch. No. 1,426,811; Aug. 22.

Bennett, George W., Oak Park, assignor to J. F. Meyer, Chicago, Ill. Moving-picture-exhibiting machine. No. 1,426,344; Aug. 22.

Berendes, Rudolf. (See Weyland, H., Hahl, and Berendes.)

Berglund, Andrew, Indiana Harbor, Ind., assignor to R. S. Broge, Chicago, Ill. Cement mill. No. 1,426,812; Aug. 22.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Electrical system. No. 1,426,947; Aug. 22.

Bergstein, Samuel, Middletown, Ohio. Paper box. No. 1,426,948; Aug. 22.

Berlotti, Samuel, St. Louis, Mo. Metallic container. No. 1,426,345; Aug. 22.

Berman, Sam, Chicago, Ill. Caster for showcases. No. 1,426,452; Aug. 22.

Bernauer, George W., St. Charles, Mo. Stiffening material for shoes. No. 1,426,538; Aug. 22.

Bernstein, Isaac, Alameda, Calif. Pocket. No. 1,426,539; Aug. 22.

Bernstein, Isaac, Alameda, Calif. Union overalls. No. 1,426,540; Aug. 22.

Berthelon, Edmond, Ax-les-Thermes, France. Method and apparatus for obtaining wood products. No. 1,426,346; Aug. 22.

Bethlehem Steel Company. (See Lachman, Maurice, assignor.)

Bidwell, Earl E., assignor of forty-five one-hundredths to P. Quesenberry, Frederick, Okla. Internal-combustion rotary engine. No. 1,427,053; Aug. 22.

Bieber, Nathan, Poland, Ohio. Loader for corn binders. No. 1,426,347; Aug. 22.

Bircher Co., The. (See Keiser, Arthur J., assignor.)

Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Portable electric lamp. No. 1,426,707; Aug. 22.

Bisset, David L., assignor to P. Lyall & Sons Construction Company, Limited, Montreal, Quebec, Canada. Chuck. No. 1,426,541; Aug. 22.

Black, John C., Beverly Hills, Calif. Production of low-boiling-point hydrocarbon. No. 1,426,813; Aug. 22.

Blair, Henry, San Ardo, assignor of one-half to H. M. Madson, San Lucas, Calif. Railway spike. No. 1,426,453; Aug. 22.

Blaw-Knox Company. (See Garlinghouse, Leslie H., assignor.)

Bliznik, John W., Detroit, Mich. Foot-operated switch-throwing mechanism. No. 1,426,542; Aug. 22.

Bockmühl, Max, and K. Windisch, assignors to Farbwerke Vorm. Meister Lucius & Brüning, Hochst-on-the-Main, Germany. Methyl-sulphites of secondary aromatic aliphatic amines and making same. No. 1,426,348; Aug. 22.

Boecler, Albert, Malmo, Sweden. Device for recovering rubber solvents. No. 1,426,949; Aug. 22.

Boekemann, Frederick A. (See Schorpp, Louis, assignor.)

Boe, Ole K. (See Rolme, Even J., assignor.)

Bohli, Jakob, Obach, assignor to Firm Scintilla, Solothurn, Switzerland. Electrical starting and igniting apparatus. No. 1,427,054; Aug. 22.

Bollow, Lee W., Chicago, Ill. Fixture for water-closet bowls. No. 1,426,950; Aug. 22.

Bolton, Sidney B. (See Bridgford, A. G., and Bolton.)

Bonner, William T., Trenton, N. J., assignor to M. Brown, Boston, Mass. Brake. No. 1,426,543; Aug. 22.

Bonsiakos, Michael, San Francisco, Calif. Printing device. No. 1,426,708; Aug. 22.

Booge, James E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating by-product zinc oxide. No. 1,426,349; Aug. 22.

Bookhout, John J. (See Smith, P. W., and Bookhout.)

Boomer, George A., assignor to The Plume & Atwood Mfg. Co., Waterbury, Conn. Shade holder for threaded electric-lamp sockets. No. 1,426,951; Aug. 22.

Boon, Cordelia, et al. (See Trane, Raymond, assignor.)

Bosch, Carl, assignor, by mesne assignments, to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany. Production of oxides of nitrogen from ammonia by catalytic oxidation. No. 1,426,952; Aug. 22.

Boulogne, Baltus, Soerabaia, Java, Dutch East Indies. Weighing tank for automatic weighing machines. No. 1,426,709; Aug. 22.

Bran Products Company. (See Mininberg, Nathan, assignor.)

Brantley, Bessie, Topeka, Kans. Charcoal furnace. No. 1,427,055; Aug. 22.

Bredeson, Gustave, assignor to Edwards and Powell Company, Chicago, Ill. Level. No. 1,426,454; Aug. 22.

Breen, Albert R., Chicago, Ill., assignor to Universal Winding Company, Boston, Mass. Yarn-reclaiming device. No. 1,427,056; Aug. 22.

Bridgford, Archie G., and S. B. Bolton, Aledo, Ill.; said Bolton assignor to said Bridgford. Manifold aero heater. No. 1,427,057; Aug. 22.

Bridgford, Archie G., and S. B. Bolton, Aledo, Ill.; said Bolton assignor to said Bridgeford. Manifold heater for internal-combustion engines. No. 1,427,058; Aug. 22.

Bridgford, Archie G., and S. B. Bolton, Aledo, Ill.; said Bolton assignor to said Bridgford. Manifold heater for internal-combustion engines. No. 1,427,059; Aug. 22.

Broge, Richard S. (See Berglund, Andrew, assignor.)

Bronuert, Emile, Mulhausen, France. Manufacture of artificial silk. No. 1,426,953; Aug. 22.

Bronson, Adelbert E., Cleveland, Ohio. Valve for pneumatic tires. No. 1,426,350; Aug. 22.

Brooks, Alfred A., Swampscott, Mass., assignor to General Electric Company. Impeller for centrifugal compressors and the like. No. 1,426,954; Aug. 22.

Brooks, John C., Paterson, N. J. Loom. No. 1,426,351; Aug. 22.

Broussouse, Fernand L., and P. J. Leboucher, Paris, France. Elastic suspension for vehicles and other bodies in motion. No. 1,427,060; Aug. 22.

Brown Company. (See Parker, Howard, assignor.)

Brown, Frank D., Burkburnett, Tex. Washing machine. No. 1,427,061; Aug. 22.

Brown, Max. (See Bonner, William T., assignor.)

Brown, Mortimer J., assignor to The Pacific R. & H. Chemical Corporation, Los Angeles, Calif. Apparatus for measuring and gasifying liquids. No. 1,426,831; Aug. 22.

Brown, Theophilus, assignor to Deere and Company, Moline, Ill. Lister motor cultivator. No. 1,426,544; Aug. 22.

Brown, William H., assignor to H. H. Franklin Mfg. Company, Syracuse, N. Y. Calculating machine. No. 1,426,710; Aug. 22.

Brownell, John R., Dayton, Ohio. Combined tire carrier and casing. No. 1,426,455; Aug. 22.

Brownson, Ralph, Hastings, Minn. Mop wringer. No. 1,426,456; Aug. 22.

Bruns, August, Brooklyn, N. Y. Bag. No. 1,426,814; Aug. 22.

Brush, Alanson P., Detroit, Mich. Muffler. No. 1,426,352; Aug. 22.

Brush, Alanson P., Detroit, Mich. Antifriction bearing. No. 1,426,353; Aug. 22.

Buffalo Foundry & Machine Company. (See Sleeper, Oliver S., assignor.)

Bunker, Darius W., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,426,354; Aug. 22.

Burkhardt, Jacob R., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Means for securing caskets in shipping boxes. No. 1,426,355; Aug. 22.

Burghart, Lloyd M., Govans, Md., assignor to U. S. Industrial Alcohol Co. Recovering volatile organic acids from distillery waste. No. 1,426,457; Aug. 22.

Burgstaller, Mathias, Cleveland, Ohio. Gas burner. No. 1,426,815; Aug. 22.

Burrell, Timothy J., El Paso, Tex. Track-sanding device. No. 1,426,627; Aug. 22.

Burrows, James. (See Cann, J. A., and Burrows.)

Burson, Harry H., assignor to Simplex Steel Products Company, Chicago, Ill. Tying tool. No. 1,426,545; Aug. 22.

Burt, F. N., Company Limited. (See Palmer, Lyndon C., assignor.)

Butler, Jay E., assignor to Victor Piston Ring Company, Baltimore, Md. Apparatus for testing piston rings. No. 1,426,711; Aug. 22.

Butterworth, H. W., & Sons Company. (See Wiegand, Hugo O., assignor.)

Buttrum, William, Joplin, Mo. Lathe. No. 1,426,546; Aug. 22.

Cacciari, Alfonso, Milan, Italy. Pneumatic rotary pump for rarefying and compressing fluids. No. 1,426,356; Aug. 22.

Cadgène, Ernest. (See Verney, Marius, assignor.)

Cain, Charlie L., Blackford, assignor of one-fourth to W. D. Crowell, Marion, Ky. Crosstie. No. 1,427,062; Aug. 22.

Campbell, Edward C. (See West, J., and Campbell.)

Campbell, Harry E., New York, N. Y. Window frame and sash. No. 1,426,458; Aug. 22.

Canda, Ferdinand M., New York, N. Y. Roll for rolling mills. No. 1,427,063; Aug. 22.

Cann, John A., Harefield, near Uxbridge, and J. Burrows, Harefield, England, assignors to Bell's United Asbestos Company, Limited, London, England. Engine packing. No. 1,426,459; Aug. 22.

Carey, Walter. (See Southgate, J. F., and Carey.)

Carter, Lester L., San Francisco, Calif. Oil, gas, and water separator. No. 1,426,955; Aug. 22.

Case, John J., assignor to Baker Manufacturing Corporation, Saratoga Springs, N. Y. Acid line for paper mills. No. 1,426,956; Aug. 22.

Casey, Thomas L., San Francisco, Calif. Dehydrator. No. 1,426,816; Aug. 22.

Caverly, Ralph, Chicago, Ill. Drill bit. No. 1,427,064; Aug. 22.

Certain-Teed Products Corporation. (See Outman, Orr K., assignor.)

Cervenka, William F., Traverse City, Mich. Bank protective apparatus. No. 1,427,065; Aug. 22.

Chaffee, Milo O., Sanford, Kans. Tractor hitch. No. 1,427,066; Aug. 22.

Chambers, John M., Baltimore, assignor to O. P. Le Compte, Towson, Md. Grip handle. No. 1,426,357; Aug. 22.

Chapuy, Antoine, and L. F. Meunir, St. Etienne, France. Variable-speed-transmission device. No. 1,426,358; Aug. 22.

Chatfield, Augustus S., New York, N. Y. Golf ball. No. 1,426,712; Aug. 22.

Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dashpot. No. 1,426,460; Aug. 22.

Chilingirian, Harry, Bridgeport, Conn. Safety gas stove with kitchen cabinet. No. 1,426,547; Aug. 22.

Chindbloom, Carl J., assignor to American Milling Co., Peoria, Ill. Apparatus for separating seeds. No. 1,426,957; Aug. 22.

Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine-starting system. No. 1,427,067; Aug. 22.

Church, William L., Newton Center, Mass., assignor to Uni-Form Company. Adjustable shore. No. 1,426,359; Aug. 22.

Cincinnati Bickford Tool Company, The. (See Norris, Henry M., assignor.)

Cisek, Joseph, Fabyan, Conn. Horseshoe. No. 1,426,958; Aug. 22.

City Machine & Tool Works. (See Nickol, Frederick C., assignor.)

Claffey, Thomas, New Britain, Conn. Hack-saw frame. No. 1,427,068; Aug. 22.

Clark, Edgar H., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone exchange system. No. 1,426,817; Aug. 22.

Clark, Le Roy G., Detroit, Mich. Electric-lighting fixture. No. 1,426,360; Aug. 22.

Clark, Samuel B. (See Popp, F. W., and Clark.)

Claude, Georges, Boulogne-sur-Seine, assignor to L'Air Liquide, Societe Anonyme Pour L'Etude et L'Exploitation des Procedes, Georges Claude, Paris, France. Separating the constituents of gaseous mixtures. No. 1,426,461; Aug. 22.

Claude, Georges, Boulogne-sur-Seine, assignor to L'Air Liquide, Societe Anonyme Pour L'Etude et L'Exploitation des Procedes, Georges Claude, Paris, France. Production of hydrogen. No. 1,426,462; Aug. 22.

Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company Incorporated, New York, N. Y. Telephone-exchange system. No. 1,426,818; Aug. 22.

Cleal, Joseph P., Toronto, Ontario, and C. H. Gibbons, Victoria, British Columbia, Canada. Camera. No. 1,426,713; Aug. 22.

Clear Vision Pump Company, The. (See Crouse, Emory, assignor.) (Reissue.)

Cleveland Folding Machine Company, The. (See Olson, Andrew, assignor.)

Cobb, Alton E., Los Angeles, Calif. Gas stove. No. 1,427,069; Aug. 22.

Cole, John, St. Louis, Mo. Hoop guide. No. 1,427,070; Aug. 22.

Collier, William H., Sandusky, Ohio. Carburetor. No. 1,426,714; Aug. 22.

Collins, Thomas, assignor to The American Separator Company, Bainbridge, N. Y. Centrifugal liquid separator. No. 1,426,959; Aug. 22.

Compton, Andrew J., Trenton, N. J. Vehicle spring lubricator. No. 1,427,071; Aug. 22.

Connolly, Thomas J., Cedar Rapids, Iowa. Lawn-mower sharpener. No. 1,426,548; Aug. 22.

Conow, Leonard, Corte Madera, assignor to J. J. Mazza, San Francisco, Calif. Oil burner. No. 1,426,361; Aug. 22.

Cook, George E., Brooklyn, N. Y. Commutator. No. 1,426,960; Aug. 22.

Cook, John W. D., London, England. Pipe wrench. No. 1,426,362; Aug. 22.

Cook, Thomas, Stalybridge, England. Baling press. No. 1,426,819; Aug. 22.

Coopersmith, Rudolph, Montreal, Quebec, Canada. Combination furniture. No. 1,426,463; Aug. 22.

Cope, Joseph H., Denver, assignor to The Windsor Manufacturing Company, Windsor, Colo. Haystacker. No. 1,426,961; Aug. 22.

Corey, James A., London, England. Printing surface. No. 1,426,549; Aug. 22.

Corpstein, Roman M., Dubuque, Iowa. Combination carrying case and camping table. No. 1,426,962; Aug. 22.

Coulter & McKenzie Machine Company. (See Fray, James A., assignor.)

Cozzens, Charles O., assignor to American Optical Company, Southbridge, Mass. Eye protector. No. 1,426,550; Aug. 22.

Crabb, George W. J., Newark, N. J. Dirigible headlight. No. 1,426,963; Aug. 22.

Crabb, George W. J., East Orange, N. J. Resilient bumper. No. 1,426,964; Aug. 22.

Craig, Robert J. E., Collingwood, Ontario, Canada. Container for dispensing liquids. No. 1,426,846; Aug. 22.

Cramer, Howard, Jacksonville, Fla., assignor of one-half to L. Richardson, Louisville, Ky. Hub liner for railway-locomotive wheels. No. 1,426,715; Aug. 22.

Crawford, Middleton, assignor to Spokane Irrigation Pump Company, Spokane, Wash. Rotary pump. No. 1,426,820; Aug. 22.

Cress, Hurve L., jr., Cincinnati, assignor of one-third to E. W. Nouse, Columbus, and one-third to R. E. Wardlow, Cincinnati, Ohio. Comb for brood chambers and shallow extracting supers. No. 1,426,551; Aug. 22.

Crosby Steam Gage & Valve Company. (See Williamson, Walter, assignor.)

Cross, Milton O., Detroit, Mich. Gear-indexing mechanism. No. 1,426,552; Aug. 22.

Crossler, Charles A., Dayton, Wash. Sidehill-mowing machine. No. 1,426,464; Aug. 22.

Crouse, Emory, Wichita, Kans., assignor to The Clear Vision Pump Company. Gasoline-dispensing device. (Reissue.) No. 15,432; Aug. 22.

Crouse-Hinds Company. (See Bissell, Carl H., assignor.)

Crowell, William D. (See Cain, Charlie L., assignor.)

Crowther, David, Minneapolis, Minn. Device for holding hypodermic needles while sharpening the same. No. 1,426,965; Aug. 22.

Cruickshank, Alexander, Clayburn, British Columbia, Canada. Pliers. No. 1,426,553; Aug. 22.

Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,426,821; Aug. 22.

Cunningham, Elmer T. (See Danielson, Ernest G., assignor.)

Custer, Burr, Marion, Ind. Attachment for windshields for automobiles. No. 1,426,716; Aug. 22.

Cutter Electrical and Manufacturing Company, The. (See Eastburn, Thomas B., assignor.)

Dalbey, Charles N., assignor of one-half to C. J. Dalbey, Wheatland, Calif. Automobile horn. No. 1,427,072; Aug. 22.

Dalbey, Clarence J. (See Dalbey, Charles N., assignor.)

Danielson, Ernest G., assignor to E. T. Cunningham, San Francisco, Calif. Variable resistance. No. 1,426,465; Aug. 22.

Darroch, George, Greenock, Scotland. Hydraulic steering system. No. 1,426,822; Aug. 22.

David, Adrien, St. Etienne, France. Weaving loom. No. 1,426,717; Aug. 22.

Daving, Joseph, New York, N. Y. Hook for convertible watches. No. 1,426,554; Aug. 22.

Davis, George W., Putney, Vt. Dowel-making machine. No. 1,427,073; Aug. 22.

Davis, Raleigh M., Ponce de Leon, Fla. Book holder. No. 1,427,074; Aug. 22.

Dawson, Joseph E., Dodsonville, Tex. Cultivator foot. No. 1,427,075; Aug. 22.

Dayton Engineering Laboratories Company, The. (See Chryst, William A., assignor.)

Dayton Engineering Laboratories Company, The. (See Hunt, John H., assignor.)

Dayton Steel Foundry Company, The. (See Walther, George, assignor.)

Dean, Herbert, Clifton Junction, near Manchester, England, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Secondary electric battery or accumulator. No. 1,426,966; Aug. 22.

Deere and Company. (See Brown, Theophilus, assignor.)

Deere & Company. (See Wilson, Frederick D., assignor.)

De Florez, Luis, Boston, Mass. Flow-regulating apparatus. No. 1,426,718; Aug. 22.

Degener, Edward K., Lewistown, Mont. Bolt-retaining attachment for wrenches. No. 1,426,847; Aug. 22.

Del Gindice, Angelo. (See Gentile, P., and Del Gindice.)

Denison, Peter, Racine, Wis. Coupling. No. 1,426,628; Aug. 22.

Dental Manikin Head Co. (See Mallon, Vincent, assignor.)

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Trimming device for sewing machines. No. 1,426,466; Aug. 22.

Dibble, W. E. (See Potter, Molton D., assignor.)

Dickson, William R., San Francisco, Calif. Wardrobe-trunk attachment. No. 1,426,823; Aug. 22.

Dilley, James V., Detroit, Mich. Lathe attachment. No. 1,427,076; Aug. 22.

Doak, William L., Pittsburgh, Pa. Fielder's glove. No. 1,426,824; Aug. 22.

Dobson, George G., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Numerical calculating device. No. 1,426,825; Aug. 22.

Doering, Henry H., Chicago, Ill. Method of and apparatus for crystallizing oils and fats. No. 1,426,555; Aug. 22.

Dodsworth, Charles R., Grand Rapids, Mich. Table-leg fastener. No. 1,426,848; Aug. 22.

Doll, Robert F., Chicago, and J. C. Thies, Barrington, Ill. Folding crate. No. 1,426,363; Aug. 22.

Donaldson, Alfred S., Newark, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Grailing machine. No. 1,426,364; Aug. 22.

Dow Company, The. (See Peck, Charles L., assignor.)

Doyal, Waldemar E., and R. Hagopian, Berkeley, Calif. Vehicle. No. 1,426,719; Aug. 22.

Drescher, Michael, Averill Park, N. Y. Gun support. No. 1,426,967; Aug. 22.

Driggs, Frank S., Southington, Conn. Cream dipper. No. 1,426,968; Aug. 22.
Drummond, Arthur, Ryde's Hill, near Guildford, England. Slide rest of lathes. No. 1,426,865; Aug. 22.
Dunham, Frank A., Owatonna, Minn. Folding curtain for automobiles. No. 1,426,969; Aug. 22.
Dunlap, Emerson C., Miami, Ind. Steering device for tractors. No. 1,426,556; Aug. 22.
Dupler, George G., Monday, Ohio. Reenforcement for pick handles. No. 1,426,366; Aug. 22.
Du Pont, E. I., de Nemours & Company. (See Booge, James E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Donaldson, Alfred S., assignor.)
Durborow, Harry J., Philadelphia, Pa. Sound box. No. 1,426,970; Aug. 22.
Dwight, Russell, Wyoming, Ohio. Forming imitation leather upholstery and the product produced thereby. No. 1,426,720; Aug. 22.
Eastburn, Thomas B., assignor to The Cutter Electrical and Manufacturing Company, Philadelphia, Pa. Circuit-breaker tripping structure. No. 1,426,467; Aug. 22.
Ebeling, Robert W., and H. J. Fanger, assignors to Standard Light Control Company, Oakland, Calif. Light control. No. 1,426,557; Aug. 22.
Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)
Edwards and Powell Company. (See Bredeson, Gustave, assignor.)
Edwards, William F., Warren, Ohio. Metallic roof. No. 1,426,558; Aug. 22.
Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge-device circuits. No. 1,426,826; Aug. 22.
Electric Service Supplies Company. (See Lewis, H. G., and Mayer, assignors.)
Electric Storage Battery Company, The. (See Dean, Herbert, assignor.)
Electrolytic Zinc Company of Australia Proprietary Limited. (See Avery, D., Stevens, and Williams, assignors.)
Ellis, Carleton, Montclair, N. J. Catalyzer for hydrogenation and the preparation thereof. No. 1,426,629; Aug. 22.
Epstein, Albert K., Chicago, Ill. Preserved eggs and process therefor. No. 1,426,559; Aug. 22.
Erhardt, Oscar P., West Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Portable electric motor. No. 1,426,367; Aug. 22.
Erik, Emil, Oesming, assignor of one-fourth to B. Pindek and one-fourth to I. Pindek, Brooklyn, N. Y. Tire valve. No. 1,426,721; Aug. 22.
Erwin, Orlando R., and C. B. Flory, assignors to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing apparatus. No. 1,426,368; Aug. 22.
Esson, Robert L., Johannesburg, Transvaal, South Africa. Loose-leaf binder and the like. No. 1,426,468; Aug. 22.
Eustice, Alfred L., Chicago, Ill. Making fuse links. No. 1,426,827; Aug. 22.
Evans, Adele K., executrix. (See Evans, Henry R.)
Evans, Henry R., deceased, New York, N. Y.; A. K. Evans, executrix. Motion-picture apparatus. No. 1,426,722; Aug. 22.
Evers, Theodore. (See Silvis, R. S., and Evers.)
Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,426,971; Aug. 22.
Fanger, Herman J. (See Ebeling, R. W., and Fanger.)
Farbenfabriken vorm. Friedr. Bayer and Co. (See Weyland, H., Habl, and Berendes, assignors.)
Farbwerke vorm. Meister Lucius & Bruning. (See Bockmühl, M., and Windisch, assignors.)
Farbwerke vorm. Meister Lucius & Bruning. (See Thiess, K., Maenchen, Steindorff, and Gilov, assignors.)
Farnham, Orma N., Sanish, N. Dak. Spring bed. No. 1,426,972; Aug. 22.
Farnham, Robert, Philadelphia, Pa. Crosstie. No. 1,426,828; Aug. 22.
Faultless Caster Company. (See Noelting, William H., assignor.)
Ferris, Anthony, et al. (See Austin, Albert L., assignor.)
Fine, David L., Dorchester, Mass. Garment. No. 1,426,973; Aug. 22.
Finley, Thomas M., St. Louis, Mo. Flying machine. No. 1,426,369; Aug. 22.
Finley, Thomas M., St. Louis, Mo. Gas control for flying machines. No. 1,426,370; Aug. 22.
Fisher, James B., Waukesha, Wis. Valve. No. 1,426,560; Aug. 22.
Fitch, Jason A., and F. C. Shea, Youngstown, Ohio. Fence-post. No. 1,426,469; Aug. 22.
Fitz-Empire Double Pivot Last Company. (See Webster, Ralph C., assignor.)
Fitzgerald, William H. J., Braintree, Mass. Window-screen construction. No. 1,426,561; Aug. 22.
Fitz Simons, Samuel G., Charleston, S. C. Automobile fender. No. 1,426,371; Aug. 22.
Fleming, James R. (See McNamare, Matthew J., assignor.)
Flory, Curtis B. (See Erwin, O. R., and Flory.)
Floto, Theresa. (See Floto, Walter M., assignor.)
Floto, Walter M., Chicago, Ill., assignor to T. Floto. Beveling machine for paper cutters. No. 1,426,974; Aug. 22.
Flynn, George R., Lowell, Mass. Calculating device. No. 1,426,829; Aug. 22.
Foamite Firefoam Company. (See Erwin, O. R., and Flory, assignors.)
Fokker, Anthony H. G., Amsterdam, Netherlands. Device for actuating control gears for machine guns. No. 1,426,849; Aug. 22.
Fokker, Anthony H. G., Amsterdam, Netherlands. Safety trigger guard on machine guns. No. 1,426,850; Aug. 22.
Fokker, Anthony H. G., Amsterdam, Netherlands. Breech lock for machine guns. No. 1,426,851; Aug. 22.
Fokker, Anthony H. G., Amsterdam, Netherlands. Crank-operating gear for moving the breech in machine guns. No. 1,427,079; Aug. 22.
Ford, Olpha A., Malden, Mass., assignor of one-half to M. J. Thompson, Kennebunk, Me. Process and apparatus for the conversion of peat, lignite, and other carbonaceous substances into artificial coal. No. 1,426,723; Aug. 22.
Foye, Cyrus D., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-beating machine. No. 1,426,372; Aug. 22.
Franklin, H. H., Mfg. Company. (See Brown, William H., assignor.)
Franklin, H. H., Manufacturing Company. (See Stellmann, Louis M., assignor.)
Franklin Railway Supply Company. (See Woodard, William E., assignor.)
Fraser, William J., Toronto, Ontario, Canada. Apparatus for manufacturing painted signs. No. 1,426,830; Aug. 22.
Fray, James A., assignor to Coulter & McKenzie Machine Company, Bridgeport, Conn. Shearing dies for spring plates. No. 1,426,470; Aug. 22.
Frederics, E., Inc. (See Frederics, Ernest O., assignor.)
Frederics, Ernest O., assignor to E. Frederics, Inc., New York, N. Y. Shield. No. 1,426,373; Aug. 22.
Frederics, Ernest O., assignor to E. Frederics, Inc., New York, N. Y. Electric heater. No. 1,426,562; Aug. 22.
Freeman, Albert M., special agent. (See Potter, Molton D.)
Freeman, Wallace E. (See Townsend, Joseph M., assignor.)
Fried. Krupp Aktiengesellschaft. (See Thun, Herman, assignor.)
Froseth, Ernst E., Minneapolis, Minn. Stringed instrument. No. 1,426,852; Aug. 22.
Fuscaldo, Ottavio, Brescia, Italy. Connection of motor-vehicle wheels to the vertices of a rhombus. No. 1,426,975; Aug. 22.
Fussell, George, Philadelphia, Pa. Vacuum means for holding type and music sheets upon printing presses. No. 1,426,471; Aug. 22.
Fyffe, Thomas L., Dundee, Scotland. Collar or the like for joining hard-metal pipes. No. 1,426,724; Aug. 22.
Gabet, Gustave, Paris, France. Fireplace water back. No. 1,426,976; Aug. 22.
Gambino, Frank, Philadelphia, Pa. Combination-operated lock. No. 1,426,977; Aug. 22.
Gambino, Frank, Philadelphia, Pa. Combination padlock. No. 1,426,978; Aug. 22.
Garguilo, Frederick, New Haven, Conn. Radiator for internal-combustion engines. No. 1,426,725; Aug. 22.
Gariglio, Donato, Turin, Italy. Automatic coupling for ropes, cables, and the like. No. 1,426,563; Aug. 22.
Garlinghouse, Leslie H., Aspinwall, Pa., assignor to Blaw-Knox Company. Panel. No. 1,426,374; Aug. 22.
Geist, Sidney R., New York, N. Y. Tag. No. 1,426,858; Aug. 22.
Gendarme, Toussaint, assignor to Societe Anonyme John Cockerill, Seraing, Belgium. Apparatus for regulating the supply of explosive mixture to gas engines. No. 1,426,854; Aug. 22.
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Bergman, Sven R., assignor.)
General Electric Company. (See Brooks, Alfred A., assignor.)
General Electric Company. (See Faccioli, Giuseppe, assignor.)
General Electric Company. (See Macloskie, George, assignor.)
General Electric Company. (See Smith, Arthur R., assignor.)
General Electric Company. (See Steck, Robert, assignor.)
General Electric Company. (See Wilkinson, James, assignor.)
General Electric Company. (See Wright, John D., assignor.)
General Electric Company. (See Wulff, Louis, assignor.)
Gentile, Pasquale, and A. Del Giudice, Youngstown, Ohio. Toy. No. 1,426,375; Aug. 22.
Gestetner, David, London, England. Duplicating, manifolding, and the like. No. 1,426,979; Aug. 22.
Gibbons, Charles H. (See Cleal, J. P., and Gibbons.)
Gibbons, Sarah A. (See Lucas, Walter H., jr., assignor.)
Giffen, Robert K., Wheeling, W. Va. Loading machine. No. 1,426,855; Aug. 22.
Gilbert, A. C., Company, The. (See Erhardt, Oscar P., assignor.)
Gilbert, A. C., Company. (See Gilbert, Alfred C., assignor.)

Gilbert, Alfred C., assignor to A. C. Gilbert Company, New Haven, Conn. Toy building construction. No. 1,426,376; Aug. 22.
Gilbert, Jesse W., Salina, Kans. Dirigible balloon. No. 1,426,726; Aug. 22.
Giles, Pleasant B., assignor of one-half to J. Q. Lauer, Waverly, Iowa. Automobile license plate. No. 1,426,856; Aug. 22.
Gilov, Frans, et al. (See Thiess, K., Maenchen, Steindorff, and Gilov.)
Gitzendanner, Paul, Woodhaven, N. Y., and F. J. Albert, West New York, N. J. Delivery-wheel trip for feeders. No. 1,426,980; Aug. 22.
Glaudel, George, Los Angeles, assignor of one-half to G. L. Mitchell, Santa Monica, Calif. Windshield attachment. (Reissue.) No. 15,488; Aug. 22.
Godchaux, Aline M., New Orleans, La. Brassière. No. 1,426,727; Aug. 22.
Goddard, Walter T., Rochester, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Insulator. No. 1,426,981; Aug. 22.
Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Focusing device. No. 1,426,857; Aug. 22.
Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Focusing device for headlights. No. 1,426,858; Aug. 22.
Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Focusing device for headlights. No. 1,426,859; Aug. 22.
Golber, Hyman, Chicago, and A. F. Poole, Kenilworth, Ill., assignors, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Totalizer clear signal. No. 1,426,377; Aug. 22.
Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)
Goodyear Tire & Rubber Company, The. (See Harsel, William B., assignor.)
Goodyear Tire & Rubber Company, The. (See Maranville, Alger G., assignor.)
Goodyear Tire & Rubber Company, The. (See Replogle, Mark A., assignor.)
Gouldbourn, Joseph. (See Jerram, A. E., Gouldbourn, and Ricks.)
Gould, Edwin J., Oakland, Calif. Oscillating wheel and driving mechanism. No. 1,426,860; Aug. 22.
Graham, Andrew W., Buffalo, N. Y. Sanitary bottle stopper. No. 1,426,728; Aug. 22.
Grande, Victor, et al. (See Austin, Albert L., assignor.)
Gregg, William H. (See Hachmann, Frederick, assignor.)
Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Glove and fur sewing machine. No. 1,426,472; Aug. 22.
Griffith, Charles A., Knoxville, Tenn. Dumping car. No. 1,426,729; Aug. 22.
Grunewald, George G., Perrysville, and M. Sweet, Mifflin, Ohio. Perpetual calendar. No. 1,426,982; Aug. 22.
Gschwender, Joseph J., Dayton, Ohio. Automatic safety shutter for cinematograph machines. No. 1,426,630; Aug. 22.
Guardino, Vincenzo, Brooklyn, N. Y. Sign. No. 1,426,983; Aug. 22.
Guldbech, Carl C., Beacon, N. Y. Driving mechanism for mixing machines. No. 1,426,984; Aug. 22.
Gustafson, Gustaf F., Chicago, Ill. Compressed-air draw-molding machine. No. 1,426,378; Aug. 22.
Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Sales-book cover. No. 1,426,631; Aug. 22.
Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Sales-book cover. No. 1,426,632; Aug. 22.
Haddock, Arthur, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Measuring device. No. 1,426,861; Aug. 22.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Drying apparatus. No. 1,426,379; Aug. 22.
Hagglund, William, Dassel, Minn. Brace for automobile running boards. No. 1,426,564; Aug. 22.
Hagopian, Ralph. (See Doyal, W. E., and Hagopian.)
Habl, Hans. (See Weyland, H., Habl, and Borendes.)
Halliday, John. (See Vineberg, J. H., Halliday, and Presner.)
Hall-Neal Furnace Company. (See Neal, Harry W., assignor.)
Halvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Fluid-operated pumping system. No. 1,426,862; Aug. 22.
Halvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift pumping mechanism. No. 1,426,863; Aug. 22.
Handy, Herbert A., Tulsa, Okla. Pump. No. 1,426,864; Aug. 22.
Handley Page Limited. (See Page, Frederick H., assignor.)
Hanna, William E., assignor to Valley Holding Corporation, Brackenridge, Pa. Hot-rolling extremely thin steel sheets. No. 1,426,730; Aug. 22.
Harding, Henry C., assignor of one-half to M. B. Rutherford, Chicago, Ill. Applying iodine to diseased and injured portions of the body. No. 1,426,633; Aug. 22.
Harmon, Frank L., Beverly, Mass., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Duplex fastener-setting machine. No. 1,426,473; Aug. 22.
Harris, Clinton B. (See Stephens, J. J., and Harris.)
Harris, Archer H., Barberton, Ohio. Collapsible-tire core. No. 1,426,865; Aug. 22.
Harris, George H., assignor to Utica Valve and Fixture Company, Utica, N. Y. Gas cock. No. 1,426,731; Aug. 22.
Harrison, John, Malad City, Idaho. Wrench. No. 1,426,985; Aug. 22.
Harris, Lewis, Benton, Ill. Concrete mold. No. 1,426,866; Aug. 22.
Harsel, William B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Stitching device. No. 1,426,867; Aug. 22.
Hart, Walter V., assignor to S. F. Williams, Jacksonville, Fla. Gate. No. 1,426,474; Aug. 22.
Haskins, Butler J., Kansas City, Mo. Cadmium test device. No. 1,426,868; Aug. 22.
Hasselberger, John, East Hampton, N. Y. Painting machine. No. 1,426,986; Aug. 22.
Hathaway, Charles H., West Allis, and W. A. Starck, assignors to Badger Manufacturing Corporation, Milwaukee, Wis. Bumper support. No. 1,426,565; Aug. 22.
Hawie, Michael, Bridgeport, Conn. Rustless buckle. No. 1,426,634; Aug. 22.
Hawie, Michael, Bridgeport, Conn. Hose supporter. No. 1,426,635; Aug. 22.
Hawie, Michael, Bridgeport, Conn. Hose supporter. No. 1,426,636; Aug. 22.
Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,426,637; Aug. 22.
Haworth, Walter N., Fifeshire, Scotland, and F. W. Atack, Manchester, England. Manufacture of aromatic alkyl amino compounds. No. 1,426,380; Aug. 22.
Hawthorne, Charles W., Buffalo, N. Y. Sign and the like. No. 1,426,475; Aug. 22.
Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Garage air compressor. No. 1,426,869; Aug. 22.
Hebert, Onesime, Oklahoma, Okla., assignor to Universal Car and Hose Coupler Company, Phoenix, Ariz. Combination car and train-pipe coupling. No. 1,426,732; Aug. 22.
Hecker, Heinrich, Hagen, Germany. Recuperator. No. 1,426,381; Aug. 22.
Heden, Gustaf, New York, N. Y. Buoying and driving mechanism for flying machines. No. 1,426,870; Aug. 22.
Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Inc., New York, N. Y. Method and means for preventing amplifiers from oscillating. No. 1,426,733; Aug. 22.
Heitler, Charles, et al. (See Waldmann, E., and Hokky, assignors.)
Hempy-Cooper Manufacturing Company. (See Hempy, Wilbur J., assignor.)
Hempy, Wilbur J., Kansas City, Mo., assignor to Hempy-Cooper Manufacturing Company. Combination boring and facing machine. No. 1,426,987; Aug. 22.
Henderson, Robert H., East Orange, N. J. Collapsible joint-boring machine. No. 1,426,476; Aug. 22.
Hendry, William F., assignor to Western Electric Company, Inc., New York, N. Y. Manufacturing audions. No. 1,426,734; Aug. 22.
Hendry, William F., New York, and C. E. Reddig, Richmond Hill, assignors to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for recording pressure. No. 1,426,735; Aug. 22.
Henning, Georg, Bergedorf, near Hamburg, Germany. Boring and stuffing machine for broom and brush heads. No. 1,426,382; Aug. 22.
Hepburn, George G., Chorlton-cum-Hardy, Manchester, England. Softening of water. No. 1,426,638; Aug. 22.
Herrmann, Kurt, Leipzig, Germany. Flying machine. No. 1,426,639; Aug. 22.
Hess, William H., Chicago, Ill. Grating. No. 1,426,736; Aug. 22.
Hientzman, Arthur H., Baltimore, Md. Computing scale. No. 1,426,477; Aug. 22.
Hicks, Kenneth K. (See Noel, C. J., and Hicks.)
Hilberry, Clarence R., Flint, Mich. Telephone directory. No. 1,426,566; Aug. 22.
Hilbish, John R., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Universal cord circuits. No. 1,426,478; Aug. 22.
Hill, Martin B., assignor of forty-five per cent to J. J. Sullivan, Houston, Tex. Ice-making apparatus. No. 1,426,640; Aug. 22.
Hines, John J., and H. R. Way, Halifax, Nova Scotia, Canada. Automatically-operating weather stop. No. 1,426,737; Aug. 22.
Hirst, James, Melrose, Mass., assignor, by mesne assignments, to Tubular Woven Fabric Company, Pawtucket, R. I. Circular loom. No. 1,426,641; Aug. 22.
Hitchcock, Rex B. (See Raney, C. R., and Hitchcock.)
Hitchen, Robert, Kewanee, Ill. Tubular hot-air furnace. No. 1,426,642; Aug. 22.
Hitzert, Andulo M. (See Rhedans, A. L., and Hitzert.)
Hodge, George O., Bristol, assignor to The New Britain Machine Company, New Britain, Conn. Plow hitch. No. 1,426,383; Aug. 22.
Hoke, William E., Washington, D. C. Method of and means for detecting defects in paramagnetic material. No. 1,426,384; Aug. 22.
Hokky, Stephen. (See Waldmann, E., and Hokky.)
Holmberg, Theodore A., Stamford, Conn. Heating system. No. 1,426,643; Aug. 22.

Hook, Henry C., Windsor, Vt., assignor, by mesne assignments, to Aluminum Manufactures Incorporated, Cleveland, Ohio. Blank holding and ejecting mechanism. No. 1,426,738; Aug. 22.
Hook, John C. (See Hyde, R. R., and Hook.)
Hoover, Leslie B., Madisonville, Ky. Bottle-cap-dispensing container. No. 1,426,988; Aug. 22.
Hopewell, Insulation & Mfg. Co. Incorporated. (See Sonneborn, Sol S., assignor.)
Hopf, Charles H., jr., Milwaukee, Wis. Collapsible luggage carrier. No. 1,426,644; Aug. 22.
Hornbeck, Harry C., San Bernardino, Calif. Inclinometer. No. 1,426,645; Aug. 22.
Howard, Joseph O. (See Hughey, George W., assignor.)
Hoy, John F., and J. C. Whitesell, jr., assignors to Luster-Jordan Company, Norristown, Pa. Hand planer. No. 1,426,739; Aug. 22.
Hren, Joseph, Kingston, N. Y. Trousers stretcher. No. 1,426,871; Aug. 22.
Hughey, George W., Springfield, Mo., assignor of one-half to J. O. Howard, Evanston, Ill. Toy. No. 1,426,646; Aug. 22.
Huhn, Anton, Minneapolis, Minn. Apparatus for drying and sterilizing cereals. No. 1,426,385; Aug. 22.
Hulick, George O., East St. Louis, Ill. Surgical appliance. No. 1,426,740; Aug. 22.
Humble, George T. and R. N., Brantford, Ontario, Canada. Display card and the like. No. 1,426,845; Aug. 22.
Humble, Richard N. (See Humble, George T. and R. N.)
Hummert, Fred, San Antonio, Tex. Means for covering wooden wall structures. No. 1,426,872; Aug. 22.
Hunter, Thomas H., Los Angeles, Calif. Advertising film and producing the same. No. 1,426,567; Aug. 22.
Hunter, Thomas W., Oakland, Calif. Brooder construction. No. 1,426,874; Aug. 22.
Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,426,873; Aug. 22.
Hutchinson, Franklin, jr. (See Speed, J. B., and Hutchinson.)
Hutshing, Edwin E., Seattle, Wash. Phonograph cabinet. No. 1,426,568; Aug. 22.
Hyde, Robert R., and J. C. Hook, Shattuck, Okla. Railway tie. No. 1,426,479; Aug. 22.
Imbler, John and S., Carmel, Ind. Automobile repair derrick. No. 1,426,386; Aug. 22.
Imbler, Samuel. (See Imbler, John and S.)
Illig, George D., Depew, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Wrench. No. 1,426,647; Aug. 22.
Industrial Process Engineering, The. (See Johns, George M., assignor.)
Ingram, Alonzo P., Pittsburgh, Pa. Gummed tape. No. 1,426,569; Aug. 22.
International Harvester Company. (See Raney, C. R., and Hitchcock, assignors.)
Ives, Charles A., Brooklyn, N. Y. Preserve-can holder. No. 1,426,387; Aug. 22.
Jacquet, Karl, Zurich, Switzerland. Current-collector contrivance. No. 1,426,388; Aug. 22.
James, Edwin R., and C. H. Adams, Reading, England. Hedge and like trimming apparatus. No. 1,426,989; Aug. 22.
Jeidel, Julius, Chicago, Ill. Spring wheel. No. 1,426,741; Aug. 22.
Jerome, Horace M., assignor to B. L. Schmidt Company, Davenport, Iowa. Ice-shaving machine. No. 1,426,742; Aug. 22.
Jerram, Arthur E., J. Gouldbourn, and F. Ricks, Leicester, England, assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. No. 1,426,389; Aug. 22.
Jerram, Arthur E., J. Gouldbourn, and F. Ricks, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,426,390; Aug. 22.
Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Wire-spoke wheel. No. 1,426,480; Aug. 22.
Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,426,391; Aug. 22.
Johnson, Bernard L., Vancouver, British Columbia, Canada. Log-carrying barge. No. 1,426,990; Aug. 22.
Johns, George M., St. Louis, Mo., assignor, by mesne assignments, to The Industrial Process Engineering Company. Material-feeding mechanism. No. 1,426,648; Aug. 22.
Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Draft rigging. No. 1,426,991; Aug. 22.
Kaehni, Frank J. and W. L., Cleveland, Ohio. Electromagnetic sound-producing device. No. 1,426,743; Aug. 22.
Kaehni, William L. (See Kaehni, Frank J. and W. L.)
Kagarise, John W. (See Lewis, J. F., and Kagarise.)
Kaisser, Karl, Amsterdam, Netherlands, assignor to Metallbank und Metallurgische Gesellschaft, Aktiengesellschaft, Frankfort-on-the-Main, Germany. Mercury step switch for electrical machines or apparatus. No. 1,426,875; Aug. 22.
Kalivoda, John, Cuba, Kans. Road drag or scraper. No. 1,426,992; Aug. 22.
Kannow, Elizabeth, Hinton, Iowa. Cuspidor for vehicles. No. 1,426,876; Aug. 22.
Kardaetz, Paul, Berlin-Reinickendorf, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Closed-circuit relay. No. 1,426,993; Aug. 22.
Karr, Darwin S., Los Angeles, Calif. Combination folder and picture frame. No. 1,426,649; Aug. 22.
Keeran, Charles R., and F. R. Taylor, assignors, by mesne assignments, to Autopoint Manufacturing Company, Chicago, Ill. Pencil. No. 1,426,744; Aug. 22.
Keiser, Arthur J., assignor to The Bircher Co., Inc., Rochester, N. Y. Envelope-sealing machine. No. 1,426,745; Aug. 22.
Keith, David F., Toronto, Ontario, Canada. Safety blowout. No. 1,426,650; Aug. 22.
Kellogg Manufacturing Co. (See Hazard, George E., assignor.)
Kellogg Switchboard and Supply Company. (See Hillbish, John E., assignor.)
Kendall, Agnes B., Smith Center, Kans. Milk-bottle cap. No. 1,426,994; Aug. 22.
Keough, Edward W., Middleboro, Mass. Shuttle-box-operating mechanism. No. 1,426,392; Aug. 22.
King, Bert W., assignor to Barnes Scale Company, Detroit, Mich. V-bearing for weighing scales. No. 1,426,393; Aug. 22.
King, Frederick G. (See King, Lewis F. and F. G.)
King, John D., Syracuse, N. Y. Chain-link coupling. No. 1,426,877; Aug. 22.
King, Lewis F., Poole, and F. G. King, Farnborough, England. Carburetor for internal-combustion engines. No. 1,426,570; Aug. 22.
Kitsée, Isidor, Philadelphia, Pa. Producing multicolored screens for photography. No. 1,426,995; Aug. 22.
Kitsée, Isidor, Philadelphia, Pa. Method and apparatus for producing matrices and for producing color screens therefrom. No. 1,426,996; Aug. 22.
Kleinmann, Ernst, Berlin, Germany. Button. No. 1,426,651; Aug. 22.
Knipe, Oliver C., Palo Alto, Calif. Recovering gold and apparatus therefor. No. 1,426,746; Aug. 22.
Knobel, Henry G., New Canaan, Conn. Artificial hand. No. 1,426,481; Aug. 22.
Koebke, Henry, Waukesha, Wis. Calipers. No. 1,426,878; Aug. 22.
Kohl, Oscar E., Rochester, N. Y. Cuff fastener. No. 1,426,571; Aug. 22.
Kohl, Oscar E., Rochester, N. Y. Cuff link. No. 1,426,572; Aug. 22.
Koller, Joseph P., Chicago, Ill. Toy. No. 1,426,482; Aug. 22.
Kovach, Joseph W., and T. Markovich, Aurora, Minn. Lock and key. No. 1,426,573; Aug. 22.
Kreher, Bernhard, Dresden, Germany. Manufacturing tubular bodies of corrugated pasteboard. No. 1,426,879; Aug. 22.
Krell, Charles D., Jacksonville, Fla. Pulling device. No. 1,426,483; Aug. 22.
Krems, Otto, Innsbruck, Austria. Interest computer. No. 1,426,484; Aug. 22.
Krenke, Otto, assignor to E. L. Powers, Port Huron, Mich. Cream separator. No. 1,426,880; Aug. 22.
Kring, Olof O. (See Stålhane, O., and Kring.)
Krum, Gustav, Duisburg-Beeck, Germany. Car coupling. No. 1,426,652; Aug. 22.
Krupnick, Ira. (See Nott, John A., assignor.)
Kruse, Frode A., Tyler, Minn. Barn-cleaning implement. No. 1,426,653; Aug. 22.
Kruse, Frode A., Tyler, Minn. Barn-cleaning mechanism. No. 1,426,654; Aug. 22.
Kunkel, Michael, Grand Rapids, Mich. Box clamp. No. 1,426,394; Aug. 22.
Kny-Scheerer Corporation of America. (See Rudich, Charles, assignor.)
Kyle, Robert T., Huntington, W. Va. Kiln. No. 1,426,655; Aug. 22.
L'Air Liquide Societe Anonyme Pour L'Etude Et L'Exploitation Des Procedes, Georges Claude. (See Claude, Georges, assignor.)
Laban, Charles, Walsall, England. Tobacco pipe. No. 1,426,656; Aug. 22.
Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,426,881; Aug. 22.
Lafleur, Isaie. (See St. Jean, A., and Lafleur.)
Lanham, Robert F., and A. V. Shull, Laurel, Miss. Reversing mechanism. No. 1,426,575; Aug. 22.
Lang, Niels, Vancouver, British Columbia, Canada. Daylight lamp. No. 1,426,395; Aug. 22.
Langhorne, Catherine M., Plainfield, N. J. Wall fixture. No. 1,426,574; Aug. 22.
Lanning, James K. (See Molloy, Daniel E., assignor.)
Lapointe, Francis J., Ann Arbor, Mich. Milk-bottle cover and cap remover. No. 1,426,396; Aug. 22.
La Roche, Joseph P., Chicago, Ill. Music roll, purse, and carrying bag. No. 1,426,485; Aug. 22.
Lasher, Osmer J., Waterbury, Conn. Meat-display case. No. 1,426,747; Aug. 22.
Lassen, Peter, Ocean Falls, British Columbia, Canada. Engine valve mechanism. No. 1,426,486; Aug. 22.
Lauer, Julian Q. (See Giles, Pleasant B., assignor.)
Laux, Richard, Fort Wayne, Ind. Lapel button. No. 1,426,487; Aug. 22.
Leboucher, Paul J. (See Broussouse, F. L., and Leboucher.)
Le Compte, Oliver P. (See Chambers, John M., assignor.)

Lefkowitz, Charles, E. E. Ross, and H. Lubin, Newark, N. J. Carboy. No. 1,426,889; Aug. 22.
Legard, Charles. (See Retser, C. F., and Legard.)
Leifheit, George H., Aurora, Ill. Liquid-fuel burner. No. 1,426,833; Aug. 22.
Leinsetter, David A., Leipsic, Ohio. Sanitary washstand. No. 1,426,488; Aug. 22.
Leland, Harrison R., and W. Schwemlein, assignors to Parkersburg Rig & Reel Company, Parkersburg, W. Va. Deck for oil tanks. No. 1,426,997; Aug. 22.
Leland, Harrison R., and W. Schwemlein, assignors to Parkersburg Rig & Reel Company, Parkersburg, W. Va. Deck for oil tanks. No. 1,426,998; Aug. 22.
Leland, Harrison R., and W. Schwemlein, assignors, to Parkersburg Rig & Reel Company, Parkersburg, W. Va. Floating deck for oil tanks. No. 1,426,999; Aug. 22.
Le Moyne, William M., Chicago, Ill. Ship for submarine navigation. No. 1,426,882; Aug. 22.
Lerner, Abraham, Brooklyn, N. Y. Combined tie and fastener. No. 1,426,883; Aug. 22.
Letourneau, Eugene, Springvale, Me. Traffic signal. No. 1,426,489; Aug. 22.
Lewis, John F., North Braddock, and J. W. Kagarise, Wilkinsburg, Pa. Buckstay. No. 1,426,748; Aug. 22.
Lewis, Henry G., and W. S. Mayer, Philadelphia, Pa., assignors to Electric Service Supplies Company. Electric-lighting mechanism. No. 1,426,490; Aug. 22.
Lewis, Orville O., Coldwater, Kans. Tremolo. No. 1,426,749; Aug. 22.
Levy, Charles M., assignor to Charles M. Levy & Son, New York, N. Y. Flexible chain. No. 1,426,884; Aug. 22.
Levy, Charles M., & Son. (See Levy, Charles M., assignor.)
Levy, Norman C., New York, N. Y. Flexible chain. No. 1,426,885; Aug. 22.
Lewinski, Alexander, assignor of one-tenth to W. R. Smith, Chicago, Ill. Peanut-blanching roller and method. No. 1,427,000; Aug. 22.
Light Manufacturing & Foundry Company. (See Sackman, William H., assignor.)
Linderman, Harry V., Mansfield, Ohio. Manufacturing rail bonds. No. 1,426,397; Aug. 22.
Lisle, Edwin. (See Watkins, Roy A., assignor.)
Locke Insulator Corporation. (See Goddard, Walter T., assignor.)
Loforese, Gaetano, Greenwich, Conn. Automobile attachment. No. 1,427,080; Aug. 22.
Lombardi, Vincent, Brooklyn, N. Y. Knitted fabric. No. 1,426,576; Aug. 22.
Longenecker, Levi S., Washington, D. C., dedicated, by mesne assignments, to the people of the United States. Separating rotor. No. 1,427,001; Aug. 22.
Long, Ernest H., Lincoln, Nebr. Notebook cover. No. 1,426,657; Aug. 22.
Loomis, Robert J., St. Paul, Minn. Rim-expanding tool. No. 1,426,577; Aug. 22.
Lorig, Edwin T., and H. G. McIlvried, assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Cold-roll feeding mechanism. No. 1,427,002; Aug. 22.
Lott, Charles I., Pearson, Ga. Roller bearing. No. 1,426,578; Aug. 22.
Lubin, Harry. (See Lefkowitz, C., Ross, and Lubin.)
Lucas, John, & Co. (See Allen, Austin O., assignor.)
Lucas, Walter H., jr., West Park, assignor to S. A. Gibbons, Cleveland, Ohio. Antiskid chain. No. 1,427,003; Aug. 22.
Lueck, Frank R., Milwaukee, Wis. Grinder attachment for drills. No. 1,426,579; Aug. 22.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Locking mechanism. No. 1,426,398; Aug. 22.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Compressing machine. No. 1,426,399; Aug. 22.
Lundeen, Nels J., and H. F. Russell, Tacoma, Wash. Attachment for davenports. No. 1,426,580; Aug. 22.
Luster-Jordan Company. (See Hoy, J. F., and Whitesell, assignors.)
Lustig, Rudolf, Milwaukee, Wis. Arch support. No. 1,426,750; Aug. 22.
Lyall, A. P., & Sons Construction Company. (See Bisset, David L., assignor.)
Lyon, Marjorie R. van W. (See Pardee, F., jr., and Lyon.)
M. S. Company. (See Schweinshaut, Max, assignor.)
McCarty, Bert, Tampa, Fla. Watch and jewelry cleaner. No. 1,426,400; Aug. 22.
McClenahan, Francis M., Oakmont, Pa. Recovery of metals from silicates. No. 1,426,890; Aug. 22.
McClenahan, Francis M., Oakmont, Pa. Recovering metals from silicates. No. 1,426,891; Aug. 22.
McCoy, Fred H., Burlington, Vt. Seam. No. 1,426,892; Aug. 22.
McGall, Philip K., West Orange, N. J., and H. R. Menefee, assignors to Western Electric Company, Incorporated, New York, N. Y. Thermionic regulator. No. 1,426,751; Aug. 22.
McGuckin, John J., Brooklyn, assignor to L. Schwab, New York, N. Y., doing business as Stevens & Company. Bench block. No. 1,426,658; Aug. 22.
McIlvried, Howard G. (See Lorig, E. T., and McIlvried.)
McKee, Garnet W., Rockford, Ill. Impeller for centrifugal compressors. No. 1,426,581; Aug. 22.
McLaughlin, Joseph, Fordwich, Ontario, Canada. Resilient vehicle wheel. No. 1,426,582; Aug. 22.
McManis, John V., Kirksville, Mo. Treatment table. No. 1,427,004; Aug. 22.
McMichael, James D., Rochester, N. Y. Saw guard. No. 1,427,005; Aug. 22.
McNamara, Matthew J., assignor of one-half to J. B. Fleming, Scranton, Pa. Railway-switch guard. No. 1,426,583; Aug. 22.
McNeal, George E., Cleveland, Ohio. Partition structure. No. 1,426,584; Aug. 22.
Macloskie, George, Erie, Pa., assignor to General Electric Company. Safety car control and air-brake equipment. No. 1,426,893; Aug. 22.
MacMahon, James H., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Preparation of liquid bleach solutions. No. 1,426,752; Aug. 22.
Macpherson, Douglas G., Portage La Prairie, Manitoba, Canada. Motor-car brake. No. 1,426,753; Aug. 22.
Madara, Albert H., Swedesboro, N. J. Demountable rim. No. 1,427,006; Aug. 22.
Madson, Henry M. (See Blair, Henry, assignor.)
Maede, Leland S., San Francisco, Calif. Can-feeding device. No. 1,426,659; Aug. 22.
Maenchen, Fritz, et al. (See Theiss, K., Maenchen, Steindorff, and Gilloy.)
Magalski, John F., assignor of one-half to A. J. Schmitt, Minneapolis, Minn. Workbench. No. 1,426,660; Aug. 22.
Magee Furnace Company. (See Wiley, Clarence F., assignor.)
Maisenhalder, Frederick J. G., Baltimore, Md., assignor to Maryland Metal Building Company, Inc. Sheet-metal building. No. 1,427,007; Aug. 22.
Mallon, Aloysius P., San Francisco, Calif. Steel tire. No. 1,426,585; Aug. 22.
Mallon, Vincent, New York, N. Y., assignor to Dental Manikin Head Co. Inc. Artificial tooth. No. 1,426,661; Aug. 22.
Mallon, Vincent, New York, N. Y., assignor to Dental Manikin Head Co. Inc. Dental manikin-head bench rest. No. 1,426,662; Aug. 22.
Maranville, Alger G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Valve. No. 1,426,894; Aug. 22.
Markovich, Toni. (See Kovach, J. W., and Markovich.)
Marks, Marco. (See Wooldridge, John, assignor.)
Martin, Lynn E., Paducah, Ky. Automatic elevator gate. No. 1,426,663; Aug. 22.
Maryland Metal Building Company. (See Maisenhalder, Frederick J. G., assignor.)
Mather, Waldo E. (See Apfel, Philip F., assignor.)
Mathes, Robert C., assignor to Western Electric Company, Incorporated, New York, N. Y. Circuit for electron-discharge devices. No. 1,426,754; Aug. 22.
Mathes, Robert C., New York, N. Y., and H. S. Read, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube circuits and operating them. No. 1,426,755; Aug. 22.
Matheson, Howard W., Montreal, Quebec, Canada. Manufacturing acetaldehyde. (Reissue.) No. 15,434; Aug. 22.
Mathieson Alkali Works, Inc., The. (See MacMahon, James H., assignor.)
Mathson, Leslie J., Black River Falls, Wis. Self-steering attachment for tractors. No. 1,426,491; Aug. 22.
Matsumoto, Shigeru, Osaka, Japan. Metallic link belt. No. 1,427,008; Aug. 22.
Matthews, Glenn H., assignor to A. Vonnegut, Indianapolis, Ind. Removable cutter head for motor-driven molders. No. 1,426,492; Aug. 22.
Mayer, Milton, Burlington, Iowa. Pump oil can. No. 1,426,586; Aug. 22.
Mayer, Walter S. (See Lewis, H. G., and Mayer.)
Mazza, John J. (See Conow, Leonard, assignor.)
Mechling, Fidelis M., Wichita, Kans. Beam hanger. No. 1,426,834; Aug. 22.
Melville, Albert, Morrisville, Pa. Car journal. No. 1,426,895; Aug. 22.
Menefee, Harry R. (See McGall, P. K., and Menefee.)
Merchant, Alexander, jr., Forres, Scotland. Jack for vehicles. No. 1,426,664; Aug. 22.
Meredith, Milton E., et al. (See Taylor, Joseph H., assignor.)
Metallbank und Metallurgische Gesellschaft, Aktiengesellschaft. (See Kaisser, Karl, assignor.)
Meunier, Leon F. (See Chapuy, A., and Meunier.)
Meyer, John F. (See Bennett, George W., assignor.)
Meyer, Robert F. A., New York, N. Y. Door and window lock. No. 1,426,896; Aug. 22.
Micha, Léon, Antwerp, Belgium. Elastic wheel. No. 1,426,587; Aug. 22.
Milholland, John, Leechburg, Pa. Pair furnace. No. 1,427,009; Aug. 22.
Milwaukee Reliance Boiler Works. (See Shover Lamar H., assignor.)
Mininberg, Nathan, assignor to Bran Products Company, Dickinson, N. Dak. Puffed food product and producing the same. No. 1,426,756; Aug. 22.
Minton, John P. (See Arnold, H. D., and Minton.)
Mitchell, George L. (See Glaudel, George, assignor.) (Reissue.)
Mitchell, John E., St. Louis, Mo. Cotton extracting and cleaning machine. No. 1,426,588; Aug. 22.

Mohrman, Herman R., Dell Rapids, S. Dak. Combined puller and press. No. 1,426,835; Aug. 22.
Molloy, Daniel E., assignor of one-half to J. K. Lanning, Fall River, Mass. Carding or straightening the fiber of cotton. No. 1,427,077; Aug. 22.
Moore, Charles R., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. No. 1,426,757; Aug. 22.
Moore, Claude, Cedar Rapids, assignor to F. L. Vernon, Newton, Iowa. Pneumatic cap. No. 1,426,402; Aug. 22.
Moore, Edward M., and O. V. Peet, Indianapolis, Ind. Tire repair. No. 1,426,897; Aug. 22.
Moore, Franklin L., Carthage, Mo. Abrasive-material-feeding machine. No. 1,426,758; Aug. 22.
Moore, Harry. (See Moore, Raymond and H.)
Moore, Raymond, Bradford, and H. Moore, Hippaholme, England. Cleansing compound. No. 1,426,589; Aug. 22.
Morgenthau, Bernard. (See Alexander, Arthur A., assignor.)
Morris, Alfred D., assignor to The Morris Metallic Packing Co., Philadelphia, Pa. Metallic packing. No. 1,426,493; Aug. 22.
Morris Metallic Packing Co., The. (See Morris, Alfred D., assignor.)
Morrow, Samuel W., and J. Schlutter, assignors to The Reus Bros. Co., Baltimore, Md. Piston ring. No. 1,426,403; Aug. 22.
Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Beam and reel. No. 1,426,898; Aug. 22.
Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)
Müller, Christian J., Prince Bay, N. Y. Replacement valve. No. 1,426,401; Aug. 22.
Multipost Company. (See Schweiger, W. F., and Balkwill, assignors.)
Multipost Company. (See Schweiger, William F., assignor.)
Mutscheller, Arthur, and K. Stoye, New York, N. Y., assignors to Wappler Electric Company. Radiographic plate changer. No. 1,426,899; Aug. 22.
Nalsmith, Donald M., Pittsburgh, Pa. Boiler. No. 1,426,590; Aug. 22.
Neal, Harry W., assignor of one-half to Hall-Neal Furnace Company, Indianapolis, Ind. Automatic air circulator for heating furnaces. No. 1,426,900; Aug. 22.
Neale, Alvin R., Adel, Iowa. Mechanism for operating doors. No. 1,426,591; Aug. 22.
Neff, John P., East Orange, N. J., assignor to American Arch Company, New York, N. Y. Fire-box structure. No. 1,426,404; Aug. 22.
Neiswender, Charles A., Topeka, Kans. Convertible porch swing and couch. No. 1,426,405; Aug. 22.
Nelson, Joseph M., Minneapolis, Minn. Door opening and closing device. No. 1,426,901; Aug. 22.
Neumeyer, Horace F., Macungie, Pa. Apparatus for treating oil. No. 1,426,836; Aug. 22
Never Scratch Auto Washer Company, The. (See Sandholm, Oscar N., assignor.)
New Britain Machine Company, The. (See Hodge, George O., assignor.)
Nichols, Holt, Rupert, Idaho. Manifold heater. No. 1,426,592; Aug. 22.
Nichols, Wesley G., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Recovering manganese steel. (Reissue.) No. 15,435; Aug. 22.
Nickol, Frederick C., assignor to City Machine & Tool Works, Dayton, Ohio. Machine for building laminated armature cores and the like. No. 1,426,759; Aug. 22.
Nickol, Frederick C., assignor to City Machine & Tool Works, Dayton, Ohio. Machine for blanking and assembling disks. No. 1,426,760; Aug. 22.
Nitsch, Charles H. (See Weightman, W. A., and Nitsch.)
Noel, Celest J., Detroit, and K. K. Hicks, assignors to K. E. Wicks, trustee, Grand Rapids, Mich. Motor-vehicle driving means. No. 1,426,902; Aug. 22.
Nocltting, William H., assignor to Faultless Caster Company, Evansville, Ind. Top-bearing-caster socket. No. 1,426,494; Aug. 22.
Norman, William, Padroni, Colo. Towel holder. No. 1,426,495; Aug. 22.
Norris, Henry M., assignor to The Cincinnati Rickford Tool Company, Cincinnati, Ohio. Center-drain turntable. No. 1,426,496; Aug. 22.
Norton, Charles L., Boston, Mass., assignor to Refractories Machinery Manufacturing Company, Pittsburgh, Pa. Machine for molding brick shapes. No. 1,426,761; Aug. 22.
Nott, John A., assignor, by mesne assignments, of one-half to I. Krupnick, Chicago, Ill. Sliding support for typewriters. No. 1,426,762; Aug. 22.
Nouse, Edgar W., et al. (See Cress, Hurve L., jr., assignor.)
Novo, Maurice L., Guadalupe, Calif. Cultivator. No. 1,426,665; Aug. 22.
Nutt, Buell W., assignor to The Strong, Kennard and Nutt Company, Cleveland, Ohio. Legging. No. 1,426,593; Aug. 22.
O'Bannon, Maurice, Daytona Beach, Fla. Tire. No. 1,426,763; Aug. 22.
Ogden, Randolph E., Rockville, Ind. Harness oiler. No. 1,426,903; Aug. 22.
Olson, Andrew, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Sheet-feeding mechanism. No. 1,426,904; Aug. 22.
Oltsch, George J., South Bend, Ind. Fishing reel. No. 1,426,594; Aug. 22.
O'Neill, Lambert, jr. (See O'Neill, Lambert, sr., and L., jr.)
O'Neill, Lambert, sr., and L., jr., Richmond, N. Y. Steeplechase device. No. 1,427,010; Aug. 22.
Orsolino, Leocadio G., Manila, P. I. Electric battery electrolyte. No. 1,427,011; Aug. 22.
Outman, Orr K., Richmond, Calif., assignor to Certain-Teed Products Corporation, St. Louis, Mo. Making strip shingles. No. 1,426,497; Aug. 22.
Owen, F. Newton. (See Owen, Fletcher, assignor.)
Owen, Fletcher, assignor to F. N. Owen, Toledo, Ohio. Thrasher. No. 1,426,498; Aug. 22.
Pacific R. & H. Chemical Corporation, The. (See Brown, Mortimer J., assignor.)
Page, Frederick H., assignor to Handley Page Limited, London, England. Wing and similar member of aircraft. No. 1,427,012; Aug. 22.
Page, Ralph E., Binghamton, N. Y., assignor to The Tabulating Machine Company. Single-column selector for card-sorting machines. No. 1,426,499; Aug. 22.
Palmer, John M., Springfield, Mass. Automobile lock. No. 1,426,666; Aug. 22.
Palmer, Lyndon C., assignor to F. N. Burt Company, Limited, Buffalo, N. Y. Container. No. 1,426,500; Aug. 22.
Panzeri, Caesar, Brooklyn, N. Y. Wall-paper cutting and pasting device. No. 1,426,667; Aug. 22.
Parcher, Lucian H., Gardner, Mass. Spring shackle. No. 1,426,406; Aug. 22.
Pardee, Frank, jr., Hazleton, Pa., and M. R. van W. Lyon, Boston, Mass., assignors to Anthracite Separator Company. Sprag for sledding. No. 1,426,668; Aug. 22.
Parizek, Frank, Chicago, Ill. Cap for gasoline or similar receptacles. No. 1,426,501; Aug. 22.
Parker, Howard, assignor to Brown Company, Berlin, N. H. Crane. No. 1,426,764; Aug. 22.
Parkersburg Rig & Reel Company. (See Leland, H. R., and Schwemlein, assignors.)
Partridge, Ralph B., assignor to Southall & Smith Limited, Birmingham, England. Filling device. No. 1,427,013; Aug. 22.
Patterson-Williams Mfg. Co. (See Williams, Winfield, assignor.)
Pattimore, Augustus T., Sacramento, Calif. Paper feed for headrests. No. 1,426,837; Aug. 22.
Patureau, Arthur M., Beaumont, Tex. Shutter for motion-picture machines. No. 1,426,595; Aug. 22.
Peck, Charles L., New York, N. Y., assignor to The Dow Company. Selective removal of organic material from liquors. No. 1,426,596; Aug. 22.
Peet, Owen V. (See Moore, E. M., and Peet.)
Pennington, Harry, Wichita Falls, Tex. Oil-well heater. No. 1,426,407; Aug. 22.
People of the United States. (See Longenecker, Levi S., assignor.)
Pesarillo, Francisco M., Seattle, Wash. Suit vacuum cleaner. No. 1,426,765; Aug. 22.
Pescara, Raul P., Barcelonn, Spain. System of aircraft propellers, with blades of variable incidence and cambering. No. 1,427,015; Aug. 22.
Peters, Robert D., Knox, Ind. Reel. No. 1,426,597; Aug. 22.
Peterson, Carl E., Bridgeport, Conn. Buckle. No. 1,426,905; Aug. 22.
Peterson, William, Sargent, Nebr. Water motor. No. 1,426,838; Aug. 22.
Petrie, James R., San Francisco, Calif. Two-part piston ring. No. 1,426,766; Aug. 22.
Pettengill, Harry I., Flint, Mich. Root-crop harvester. No. 1,426,767; Aug. 22.
Pezzetti, Henry, Philadelphia, Pa. Street-cleaning equipment. No. 1,426,408; Aug. 22.
Pfannenstiehl, Harry, East Orange, N. J., and E. P. Bancroft, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph receiver. No. 1,426,768; Aug. 22.
Picciotto, Salvatore, New York, N. Y. Weight-motor device. No. 1,426,598; Aug. 22.
Pierce, Ralph E., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Ciphering device. No. 1,426,669; Aug. 22.
Pierce, Ralph E., Zion, Ill. Railway-crossing-gate signal. No. 1,426,839; Aug. 22.
Pilkington Brothers Limited. (See Waldron, Frederic B., assignor.)
Pindek, Barney, et al. (See Erik, Emil, assignor.)
Pindek, Isador, et al. (See Erik, Emil, assignor.)
Pinney, George H., South Manchester, assignor to The Williams Brothers Manufacturing Company, Glastonbury, Conn. Plating. No. 1,426,769; Aug. 22.
Plume & Atwood Mfg. Co., The. (See Boomer, George A., assignor.)
Polhemus, Louis E., Miami, Ariz. Key ring. No. 1,427,016; Aug. 22.
Pollard, Gurdon T., Denver, Colo. Rotary drilling machinery. No. 1,426,670; Aug. 22.
Poole, Arthur F. (See Golber, H., and Poole.)

Poole, Arthur F., Kenilworth, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Totalizer clear signal. No. 1,426,502; Aug. 22.
Popp, Fred W., and S. B. Clark, Vallejo, Calif. Game board. No. 1,426,599; Aug. 22.
Popper, Julius S., New York, N. Y. Finger piece. No. 1,427,017; Aug. 22.
Potter, Molton D., deceased, A. M. Freeman, special agent, assignor to W. E. Dibble, Sioux Falls, S. Dak. Hoisting device. No. 1,426,503; Aug. 22.
Powers, Earnest L. (See Krenke, Otto, assignor.)
Prescott, William E., London, assignor to Joseph Baker, Sons and Perkins, Limited, Willesden Junction, London, England. Cooling apparatus. No. 1,427,018; Aug. 22.
Presner, Joseph. (See Vineberg, J. H., Halliday, and Presner.)
Pressure Proof Piston Ring Company. (See Small, Frederick E., assignor.)
Prints, Wilhelm, Kettwig-Ruhr, Germany. Machine for distributing fertilizer. No. 1,426,671; Aug. 22.
Purdom, Archibald B., Blackshear, Ga. Sweet-potato vine cutter. No. 1,426,906; Aug. 22.
Putnam, George E., Los Angeles, Calif. Curved-wing rotary bit. No. 1,427,019; Aug. 22.
Quagliano, Vito A., East Boston, Mass. Indicia plate for lenses. No. 1,426,770; Aug. 22.
Quesenberry, Price. (See Bidwell, Earl E., assignor.)
Radford, Douglas R., Los Angeles, Calif. Retread for tires and making them. No. 1,426,672; Aug. 22.
Radu, John W., assignor to Western Electric Company, Incorporated, New York, N. Y. Leading-in conductor. No. 1,426,771; Aug. 22.
Ramsey, George, Brooklyn, N. Y. Projectile. No. 1,426,907; Aug. 22.
Raney, Clemma R., and R. B. Hitchcock, Chicago, Ill., assignors to International Harvester Company. Adjustable straw conveyer. No. 1,426,908; Aug. 22.
Rapp, Fred, West Albany, N. Y. Adjustable backing for rail braces. No. 1,426,772; Aug. 22.
Rawson, Myron R., Spokane, Wash. Log-turning mechanism. No. 1,426,409; Aug. 22.
Rayder, Joseph A., Philadelphia, Pa. Applicator brush. No. 1,426,909; Aug. 22.
Read, Harry S. (See Mathes, R. C., and Read.)
Reck, Peter W., Bettendorf, Iowa. Divisible locking steering wheel. No. 1,426,773; Aug. 22.
Redding, Charles E. (See Hendry, W. F., and Redding.)
Reeder, Fred E., Hominy, Okla. Can opener. No. 1,426,673; Aug. 22.
Refractories Machinery Manufacturing Company. (See Norton, Charles L., assignor.)
Remington Accounting Machine Corporation. (See Golber, H., and Poole, assignors.)
Remington Accounting Machine Corporation. (See Poole, Arthur F., assignor.)
Rentscher, Joseph, Chicago, Ill. Toy telephone. No. 1,426,504; Aug. 22.
Replogle, Mark A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Buffer for tires. No. 1,426,910; Aug. 22.
Replogle, Wilbert C., Detroit, Mich. Fuel-tank-control valve. No. 1,426,505; Aug. 22.
Ressler, George S., Lansing, Mich. Vehicle lamp dimmer. No. 1,426,774; Aug. 22.
Retzer, Christian F., and C. Legard, Superior, Wis. Brake-beam hanger. No. 1,426,506; Aug. 22.
Reus Bros. Co., The. (See Morrow, S. W., and Schlutter, assignors.)
Rhedans, Anna L., and A. M. Hitzert, St. Louis, Mo. Grave lining. No. 1,426,600; Aug. 22.
Riccia, Angelo D., Brussels, Belgium. Autotransformer. No. 1,426,775; Aug. 22.
Rice, Henry M., Knoxville, Tenn. Draft controller for locomotives. No. 1,426,840; Aug. 22.
Richardson, Charles V., Saffron Walden, England. Collapsible carriage. No. 1,426,601; Aug. 22.
Richardson, Lawrence. (See Cramer, Howard, assignor.)
Richardson, Lawrence, Louisville, Ky. Feeding device for locomotive tenders. No. 1,426,675; Aug. 22.
Ricks, Fred. (See Jerram, A. E., Gouldbourn, and Ricks.)
Ridley, George, Highland Park, Mich. Automatic railway signal and stop. No. 1,426,410; Aug. 22.
Riecken, William E., Glendale, assignor to Western Electric Company, Incorporated, New York, N. Y. Moisture proof receptacle. No. 1,426,776; Aug. 22.
Robertson, Frederick D. S., Toronto, Ontario, Canada. Obtaining volatilizable metal oxides. No. 1,426,602; Aug. 22.
Rodrian Electro Metallurgical Co. Incorporated. (See Rodrian, Richard, assignor.)
Rodrian, Richard, New York, N. Y., assignor to Rodrian Electro Metallurgical Co. Incorporated. Smelting and electrolyzing process. No. 1,426,507; Aug. 22.
Rogers, Clarence B., Seattle, Wash. Electric heating unit. No. 1,426,411; Aug. 22.
Rogers, Edward E., New York, N. Y. Sharpening device. No. 1,426,911; Aug. 22.
Rohne, Even J., assignor of one-half to O. K. Boe, Minneapolis, Minn. Electric vulcanizer. No. 1,426,608; Aug. 22.
Rollins, George L., Kansas City, Mo. Combined milk pail and stool. No. 1,426,508; Aug. 22.
Rood, Fletcher C., Walla Walla, Wash. Flushing tank. No. 1,426,509; Aug. 22.
Rooks, Joe, Andersonville, Ga. Bed bottom. No. 1,427,020; Aug. 22.
Ross, Elmer E. (See Lefkowitz, C., Ross, and Lubin.)
Ross, Milton G., et al. (See Taylor, Joseph H., assignor.)
Ross, Virgil D., Albemarle, N. C. Connecting device for automobile tops. No. 1,426,912; Aug. 22.
Rowe, George H. (See Spencer, Charles R., assignor.)
Roys, Herman E., New York, N. Y., assignor to Universal Interests, Inc. Electric heater. No. 1,426,604; Aug. 22.
Rubinson, Harry, Des Moines, Iowa. Jar-closure device. No. 1,426,605; Aug. 22.
Rudich, Charles, assignor, by mesne assignments, to The Kny-Scheerer Corporation of America, New York, N. Y. Adjustable twin saw. No. 1,426,676; Aug. 22.
Rudolph, Wallace A., Renville, Minn. Feed hopper for poultry. No. 1,427,021; Aug. 22.
Russell, Grant E., St. Louis, Mo. Fencepost and wire fastener. No. 1,426,777; Aug. 22.
Russell, Henry F. (See Lundeen N. J., and Russell.)
Rutherford, Madison B. (See Harding, Henry C., assignor.)
Sackman, William H., assignor to Light Manufacturing & Foundry Company, Pottstown, Pa. Piston. No. 1,426,913; Aug. 22.
Salter, William A., Kansas City, Mo. Multiple-turret-tool holder. No. 1,426,778; Aug. 22.
Sandberg, Bernhard, French Lake, Minn. Tire-chain fastener. No. 1,426,510; Aug. 22.
Sanderfield, Martin, Athens, Ill. Demountable tractor rim for hard surfaces. No. 1,426,511; Aug. 22.
Sanderson, William G., Chicago, Ill. Valve seal. No. 1,426,412; Aug. 22.
Sandholm, Oscar N., assignor to The Never Scratch Auto Washer Company, Denver, Colo. Washing appliance. No. 1,426,606; Aug. 22.
Sang, Charlie, Castorville, Calif. Transmission mechanism. No. 1,426,677; Aug. 22.
Sargent & Company. (See Shaw, John H., assignor.)
Savage, John C., Ryde, Isle of Wight, England. Aerial craft. No. 1,426,413; Aug. 22.
Sawtell, Walter E., London, England. Darning machine. No. 1,427,022; Aug. 22.
Schade, Frederik, Skive, Denmark. Device for rolling up paper and the like. No. 1,426,779; Aug. 22.
Scheffer, John, Newark, N. J. Stove board. No. 1,427,023; Aug. 22.
Schevitz, Carl, Jacksonville, Fla. Expansible shoe last. No. 1,427,024; Aug. 22.
Schiffbauer, Joseph, Chicago, Ill. Sectional mold. No. 1,426,512; Aug. 22.
Schlafly, Charles A., New Philadelphia, Ohio. Safety friction gear. No. 1,427,025; Aug. 22.
Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Press. No. 1,426,607; Aug. 22.
Schlötter, Max, Berlin, Germany. Producing dense and firmly-adhering tin deposits. No. 1,426,678; Aug. 22.
Schlutter, John. (See Morrow, S. W., and Schlutter.)
Schmaller, Ernst, assignor to P. B. Wohlrab, Racine, Wis. Steering-post transmission mechanism. No. 1,426,914; Aug. 22.
Schmaller, Ernst, assignor to P. B. Wohlrab, Racine, Wis. Steering-post transmission mechanism. No. 1,426,915; Aug. 22.
Schmidt, B. L., Company. (See Jerome, Horace M., assignor.)
Schmidt, Jacob B., Milwaukee, Wis. Box-blank machine. No. 1,426,608; Aug. 22.
Schmitt, Albert J. (See Magalski, John F., assignor.)
Schorpp, Louis, Philadelphia, assignor of one-half to F. A. Boekemann, Collingdale, Pa. Collapsible drinking cup. No. 1,426,916; Aug. 22.
Schumann, Edgard, Berlin-Wilmersdorf, Germany. Razor strop. No. 1,426,414; Aug. 22.
Schwab, Henry W., Muscatine, Iowa. Flush valve. No. 1,426,841; Aug. 22.
Schwab, Louis. (See McGuckin, John J., assignor.)
Schwabach, Georg, Charlottenburg, near Berlin, Germany. Rotary apparatus for removing material to be dumped from furnaces. No. 1,427,026; Aug. 22.
Schwarzmann, Wolfgang E., Longmeadow, assignor to American Bosch Magneto Corporation, Springfield, Mass. Adjustable interrupter cam. No. 1,426,609; Aug. 22.
Schweiger, William F., assignor to Multipost Company, Incorporated, Rochester, N. Y. Stamp-affixing machine. No. 1,426,780; Aug. 22.
Schweiger, William F. and W. J. Balkwill, assignors to Multipost Company, Incorporated, Rochester, N. Y. Envelope-moistening machine. No. 1,426,781; Aug. 22.
Schweinshaut, Max, assignor to M. S. Company, Attleboro, Mass. Key pouch. No. 1,426,782; Aug. 22.
Schwemlein, William. (See Leland, H. R., and Schwemlein.)
Scintilla. (See Bohli, Jakob, assignor.)
Scofield, Edgar, New York, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Double-seal friction cap. No. 1,426,917; Aug. 22.
Searle, Robert M., Rochester, N. Y., assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Vertical-retort gas-making apparatus. No. 1,427,078; Aug. 22.
Shae, Fred C. (See Fitch, J. A., and Shae.)

Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Casement-window adjuster. No. 1,426,415; Aug. 22.
Shaw, Louis E., East Orange, N. J., assignor to Williams Motors Inc., New York, N. Y. Means for controlling fluid leakage through joints and bearings. No. 1,426,416; Aug. 22.
Shaw, Louis E., East Orange, N. J., assignor to Williams Motors Inc., New York, N. Y. Wheel mounting for light motor vehicles. No. 1,426,417; Aug. 22.
Sheard, Charles, Sturbridge, and E. D. Tillyer, assignors to American Optical Company, Southbridge, Mass. Ophthalmic lens. No. 1,426,513; Aug. 22.
Shiba, Yaichiro, San Jose, Calif. Automobile signal. No. 1,426,610; Aug. 22.
Shover, Lamar H., assignor to Milwaukee Reliance Boiler Works, Milwaukee, Wis. Lubricating device. No. 1,426,918; Aug. 22.
Shull, Albert V. (See Lanham, R. F., and Shull.)
Shuster, Andy, San Antonio, Tex. Automobile turntable. No. 1,426,679; Aug. 22.
Siemens & Halske, Aktiengesellschaft. (See Kardaetz, Paul, assignor.)
Silvis, Richard S., and T. Evers, Rock Island, Ill. Automatic feed. No. 1,427,027; Aug. 22.
Simmons Method-Hob Company. (See Simmons, Oliver G., assignor.)
Simmons, Oliver G., assignor to Simmons Method-Hob Company, Philadelphia, Pa. Generation of convolute lines in hobbing cutters and the like. No. 1,426,680; Aug. 22.
Simon, Paul, Classon Point Park, N. Y. Amusement-park device. No. 1,426,418; Aug. 22.
Simplex Steel Products Company. (See Burson, Harry H., assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Grieb, Alfred, assignor.)
Singer Manufacturing Company, The. (See Harmon, Frank L., assignor.)
Sladden, Sidney C., New York, N. Y. Self-propelling rotary cutter. No. 1,426,919; Aug. 22.
Sleeper, Oliver S., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Autoclave. No. 1,426,920; Aug. 22.
Smith, Abraham, Erie, Pa. Computing and recording machine. No. 1,426,419; Aug. 22.
Smith, Arthur R., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. No. 1,426,921; Aug. 22.
Small, Frederick E., Needham, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston packing. No. 1,426,783; Aug. 22.
Smith, Lloyd H., assignor to Texas Steel Highway Marker Association, Waco, Tex. Road marker. No. 1,426,420; Aug. 22.
Smith, Primus W., and J. J. Bookhout, Dallas, Tex. Blade for well-drilling devices. No. 1,426,681; Aug. 22.
Smith, William R. (See Lewinski, Alexander, assignor.)
Snell, Owers C., Dallas, Tex. Socket wrench. No. 1,426,682; Aug. 22.
Snyder, Simon, assignor to Sprout, Waldron & Company, Muncy, Pa. Supporting device for the driving shafts of gyrating machines. No. 1,426,514; Aug. 22.
Societe Anonyme John Cockerill. (See Gendarme, Toussaint, assignor.)
Societe Nauton freres & de Marsac et al. (See Tesse, Theodore F., assignor.)
Solmson, Robert R., New Brunswick, N. J. Pipe-stamping machine. No. 1,426,784; Aug. 22.
Solomon, Lucius H., Tiffin, Ohio. Heater. No. 1,427,028; Aug. 22.
Sood, v. Francis M., Churubusco, Ind. Handle holder for caskets. No. 1,426,785; Aug. 22.
Sonneborn, Sol S., Brooklyn, N. Y., assignor to Hopewell Insulation & Mfg. Co., Incorporated. Condenser cemented sectional insulator. No. 1,426,421; Aug. 22.
Southall & Smith Limited. (See Partridge, Ralph B., assignor.)
Southgate, James F., and W. Carey, Chelmsford, England. Money-delivering apparatus. No. 1,427,029; Aug. 22.
Speed, James B., New York, and F. Hutchinson, jr., Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Storage battery. No. 1,426,786; Aug. 22.
Spencer, Charles R., assignor of one-half to G. H. Rowe, Buffalo, N. Y. Armrest. No. 1,426,787; Aug. 22.
Spillane, William T., Crookston, Minn. Railway safety appliance. No. 1,426,922; Aug. 22.
Spokane Irrigation Pump Company. (See Crawford, Middleton, assignor.)
Sprecher, Harry M., Ephrata, Pa. Milk-cooling apparatus. No. 1,426,515; Aug. 22.
Springfield Metallic Casket Company, The. (See Burkhardt, Jacob R., assignor.)
Sprout, Waldron & Company. (See Snyder, Simon, assignor.)
Squires, Curtis A., Lyndonville, Vt. Garment clasp. No. 1,426,611; Aug. 22.
Stalhane, Otto, and O. O. Kring, Djursholm, Sweden. Coating metal objects with a layer of another metal. No. 1,426,683; Aug. 22.
Standard Light Control Company. (See Ebeling, R. W., and Fanger, assignors.)
Standard Parts Company, The. (See Baker, Walter C., assignor.)
Standard Parts Company, The. (See Jobski, Otto H., assignor.)
Standard Woven Fabric Company. (See Swift, William C., assignor.)
Stanley Insulating Company. (See Anthon, George C., assignor.)
Starck, William A. (See Hathaway, C. H., and Starck.)
Steck, Robert, Fort Wayne, Ind., assignor to General Electric Company. Electrical system. No. 1,426,923; Aug. 22.
Steck, Robert, Fort Wayne, Ind., assignor to General Electric Company. Electrical system. No. 1,426,924; Aug. 22.
Steck, Robert, Fort Wayne, Ind., assignor to General Electric Company. Electrical system. No. 1,426,925; Aug. 22.
Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,426,516; Aug. 22.
Steinberger, Louis, Brooklyn, N. Y. Insulator strain member. No. 1,426,788; Aug. 22.
Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,426,789; Aug. 22.
Steinorff, Adolf, et al. (See Thiess, K., Maenchen, Steindorff, and Gilloy.)
Stellmann, Louis M., assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Brake drum. No. 1,426,684; Aug. 22.
Stenson, Olaf, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-bending machine. No. 1,426,790; Aug. 22.
Stephens, Joseph J., Richmond, Mo., and C. B. Harris, Dallas, Tex. Stilt. No. 1,427,030; Aug. 22.
Stepp, Walter H., Douthat, Okla. Revolving screen. No. 1,427,031; Aug. 22.
Sterling Metal Novelty Mfg. Co. Inc. (See Zaklin, David, assignor.)
Stevens & Company. (See McGucklin, John J., assignor.)
Stevens, Royale H. (See Avery, D., Stevens, and Williams.)
St. Jean, Arthur, and I. Lafleur, New Bedford, Mass. Automobile signal. No. 1,426,612; Aug. 22.
Stocker, Gerhard, Minneapolis, Minn. Spring shield and oiling device. No. 1,426,613; Aug. 22.
Stoddard, Harry B., Syracuse, N. Y. Collar. No. 1,427,032; Aug. 22.
Stokes & Smith Company. (See Weightman, W. A., and Nitsch, assignors.)
Stoller, Hugh M., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical control system. No. 1,426,791; Aug. 22.
Stowe, Harry F., Elmira, N. Y. Chiropractic table. No. 1,426,422; Aug. 22.
Stoye, Kurt. (See Mutscheller, A., and Stoye.)
Straight, Charles S., Ranger, Tex. Casing spear. No. 1,427,033; Aug. 22.
Stratton, Fenton F., East Croydon, England. Carburetor for internal-combustion engines. No. 1,426,685; Aug. 22.
Stratton, Wilbert E. (See Zieschang, Richard, assignor.)
Stresau, Richard, Quogue, N. Y. Speed-changing device. No. 1,426,926; Aug. 22.
Strong, Kennard, and Nutt Company, The. (See Nutt, Buell W., assignor.)
Sullivan, J. J. (See Hill, Martin B., assignor.)
Sullivan Machinery Company. (See Halvorsen, Halbert B., assignor.)
Sulzberger, Nathan, New York, N. Y. Nonpyrophoric catalysts and effecting catalytic reactions therewith. No. 1,426,517; Aug. 22.
Sutherland, Isaac, Melbourne, Victoria, Australia. Cinematographic machine. No. 1,426,614; Aug. 22.
Sutton, William S., Rockford, Ill. Method of and apparatus for ramming sand into molds. No. 1,426,615; Aug. 22.
Svenson, Olof H., Gottenborg, Sweden. Siren or fog horn. No. 1,427,034; Aug. 22.
Swan, Frederick A., Cliftondale, Mass. Automatic fire alarm. (Reissue.) No. 15,436; Aug. 22.
Swasey, Horace T., Trenton, N. J. Spreader. No. 1,426,423; Aug. 22.
Sweeny, Robert P., Union, S. C. Air-induction cleaning apparatus. No. 1,426,518; Aug. 22.
Sweet, Mary. (See Grunewald, G. G., and Sweet.)
Swift, Thomas J., Minneapolis, Minn. Bathtub. No. 1,426,519; Aug. 22.
Swift, William C., Cambridge, assignor to Standard Woven Fabric Company, Walpole, Mass. Making friction facings. No. 1,426,842; Aug. 22.
Swinehart, James A., Akron, Ohio. Making vehicle tires. No. 1,426,927; Aug. 22.
Swintek, Martin, Eddyville, Iowa. Traveling-screen nozzle. No. 1,426,616; Aug. 22.
Symington, T. H., Company, The. (See Kadel, Byers W., assignor.)
Syrstad, Louis K., Shelton, Wash. Combination swivel and bull hook. No. 1,426,520; Aug. 22.
Tabulating Machine Company, The. (See Page, Ralph E., assignor.)
Taylor, Frank R. (See Keeran, C. R., and Taylor.)
Taylor, George N., East Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Traverse motion for winding machines. No. 1,427,035; Aug. 22.

Taylor, Joseph H., assignor of one-third to M. G. Ross and M. E. Meredith, Mellen, Wis. Inner tube. No. 1,427,036; Aug. 22.
Taylor, Sherman, Wymore, Nebr. Door. No. 1,426,424; Aug. 22.
Teichner, Gustav, Vienna, Austria. Hydrogenating catalyzer. No. 1,427,037; Aug. 22.
Tesse, Theodore F., et al. (See Tesse, Theodore, F., assignor.)
Tesse, Theodore F., assignor to Societe Nauton freres & de Marsac, St. Ouen, and T. F. Tesse, Paris, France. Diminishing the visibility of objects. No. 1,426,521; Aug. 22.
Texas Steel Highway Marker Association. (See Smith, Lloyd H., assignor.)
Thibert, Napoleon R., Worcester, Mass. Machine for forming wire. No. 1,426,425; Aug. 22.
Thies, John C. (See Doll, R. F., and Thies.)
Thiess, Karl, Sindlingen, near Hochst-on-the-Main, F. Maennchen, A. Steindorff, and F. Gilloy, assignors to Farbwerke vorm. Meister Lucius & Bruning, Hochst-on-the-Main, Germany. Stable, dry, and readily-soluble vat preparations and making same. No. 1,426,522; Aug. 22.
Thompson, Margaret J. (See Ford, Alpha A., assignor.)
Thun, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Surface-measuring apparatus. No. 1,426,426; Aug. 22.
Tlencken, John H., Charleston, S. C. Card game. No. 1,426,928; Aug. 22.
Tillyer, Edgar D. (See Sheard, C., and Tillyer.)
Timken Roller Bearing Company, The. (See Schlauptiz, Oswald, assignor.)
Tondvine, Ernest W., Los Angeles, Calif. Sun shield for automobiles. No. 1,427,038; Aug. 22.
Tokheim, John J., Cedar Rapids, Iowa. Power-transmitting mechanism. No. 1,426,843; Aug. 22.
Toothaker, Fred E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe and shoe-shank stiffener. No. 1,426,427; Aug. 22.
Townsend, Joseph M., assignor of one-half to W. E. Freeman, Worcester, Mass. Envelope manufacture. No. 1,426,523; Aug. 22.
Trane, Raymond, assignor of one-third to C. Boon and one-third to E. E. Ashley, Omaha, Nebr. Attachment for rules. No. 1,427,039; Aug. 22.
Tritt, Samuel J., Carlisle, Pa. Elevator. No. 1,426,524; Aug. 22.
Troup, Harry A., Los Angeles, Calif. Controlling device. No. 1,426,686; Aug. 22.
Tubular Woven Fabric Company. (See Hirst, James, assignor.)
Turner, William E., Tacoma, Wash. Sewing machine. No. 1,426,617; Aug. 22.
Tweit, John A., Appleton, Minn. Rail joint. No. 1,426,618; Aug. 22.
U. G. I. Contracting Company, The. (See Searle, Robert M., assignor.)
U. S. Industrial Alcohol Co. (See Backhaus, A. A., and Arentz, assignors.)
U. S. Industrial Alcohol Co. (See Burghart, Lloyd M., assignor.)
Uni-Form Company. (See Church, William L., assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Bunker, Darius W., assignor.)
United Shoe Machinery Corporation. (See Foye, Cyrus D., assignor.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See Jerram, A. E., Gouldbourn, and Ricks, assignors.)
United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Shoe Machinery Corporation. (See Toothaker, Fred E., assignor.)
Universal Car and Hose Coupler Company. (See Hebert, Onesime, assignor.)
Universal Interests, Inc. (See Roys, Herman E., assignor.)
Universal Winding Company. (See Breen, Albert R., assignor.)
Universal Winding Company. (See Taylor, George N., assignor.)
Utica Valve and Fixture Company. (See Harris, George H., assignor.)
V. P. Auto Appliance Company Limited, The. (See Vineberg, J. H., Halliday, and Presner, assignors.)
Vallens, Eugene, New York, N. Y. Method and package for cigars in glass tubes. No. 1,426,792; Aug. 22.
Valley Holding Corporation. (See Hanna, William E., assignor.)
Vardell, Arthur A., deceased; H. G. Vardell, executrix, Dallas, Tex. Mechanism for removing useful fiber from seeds. No. 1,426,687; Aug. 22.
Vardell, Arthur A., deceased; H. G. Vardell, executrix, Dallas, Tex. Breast mechanism for fiber-treating machines, such as gins. No. 1,426,688; Aug. 22.
Vardell, Arthur A., deceased; H. G. Vardell, executrix, Dallas, Tex. Doffing mechanism for gins. No. 1,426,689; Aug. 22.
Vardell, Highland G., executrix. (See Vardell, Arthur A.)
Vaughan, Charles F., London, England. Grease cup. No. 1,426,929; Aug. 22.
Vawter, Charles E., Philadelphia, Pa. Electrical measuring instrument. No. 1,426,619; Aug. 22.
Vawter, Charles E., Philadelphia, Pa. Rail-bond tester. No. 1,426,620; Aug. 22.
Vernay, Marius, Cornillon-Beaujeu, France, assignor to E. Cadgene, Paterson, N. J. Machine for rubbing tissues. No. 1,426,690; Aug. 22.
Vernon, F. L. (See Moore, Claude, assignor.)
Victor Piston Ring Company. (See Butler, Jay E., assignor.)
Videtto, George C., Pittsburgh, Pa. Conveying apparatus. No. 1,426,691; Aug. 22.
Vineberg, Joseph H., J. Halliday, and J. Presner, assignors to The V. P. Auto Appliance Company, Limited, Montreal, Quebec, Canada. Windshield attachment. No. 1,426,793; Aug. 22.
V. Loutzkoy, Boris, Andreewka, Russia. Air-cushion hub. No. 1,426,886; Aug. 22.
V. Loutzkoy, Boris, Andreewka, Russia. Pneumatic hub for vehicle wheels. No. 1,426,887; Aug. 22.
V. Loutzkoy, Boris, Andreewka, Russia. Pneumatic hub for vehicle wheels. No. 1,426,888; Aug. 22.
Von Pazsiczky, Gedeon, Hamburg, Germany. Apparatus for the production of spun glass. No. 1,427,014; Aug. 22.
Vonnegut, Anton. (See Matthews, Glenn H., assignor.)
Wade, George, Newark, N. J. Belt buckle. No. 1,426,794; Aug. 22.
Waidelich, John F., Jackson, and T. F. Whelan, Holland, Mich. Wear plate. No. 1,426,795; Aug. 22.
Waldmann, Ernö, and S. Hokky, Budapest, Hungary, assignors, by mesne assignments, to C. Heitler and E. Waldmann, Chicago, Ill. Stove and furnace. No. 1,426,674; Aug. 22.
Waldmann, Eugene, et al. (See Waldmann, E., and Hokky, assignors.)
Waldron, Frederic B., Prescot, assignor to Pilkington Brothers Limited, St. Helens, England. Apparatus for holding and lifting by means of suckers. No. 1,426,692; Aug. 22.
Waldron, Frederic B., Prescot, assignor to Pilkington Brothers Limited, St. Helens, England. Pneumatic load-engaging means. No. 1,426,930; Aug. 22.
Walker Brothers Company, The. (See Walker, Willard R., assignor.)
Walker, Charles L., San Francisco, Calif. Roof structure. No. 1,426,832; Aug. 22.
Walker, David D. (See Aikens, Thomas N., assignor.)
Walker, Leon A., Newark, N. J. Driving belt. No. 1,426,796; Aug. 22.
Walker, Willard R., assignor to The Walker Brothers Company, Syracuse, N. Y. Culinary basket for dish-washing machines. No. 1,426,931; Aug. 22.
Wallace, George H., Cambridge, Mass. Attachment for band saws. No. 1,426,932; Aug. 22.
Walsh, Hattie M., San Francisco, Calif. Bloomers. No. 1,426,525; Aug. 22.
Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Pattern for cast-steel wheels. No. 1,426,621; Aug. 22.
Wangelin, Emma D., St. Louis, Mo. Handkerchief retainer for gloves. No. 1,426,797; Aug. 22.
Wappler Electric Company. (See Mutscheller, A., and Stoye, assignors.)
Ward, James W., North Fond du Lac, Wis. Varnish-brush container. No. 1,426,622; Aug. 22.
Wardlow, Robert E., et al. (See Cress, Hurve L., jr., assignor.)
Watkins, Roy A., assignor, by mesne assignments, to E. Lisle, Clarinda, Iowa. Wringer. No. 1,426,526; Aug. 22.
Way, Henry R. (See Hines, J. J., and Way.)
Weasser, William H., Pittsfield, Mass. Attachment for phonographs. No. 1,426,693; Aug. 22.
Webster, Henry A., Milford, Mass., assignor to American Wringer Company, Woonsocket, R. I. Wringer. No. 1,426,798; Aug. 22.
Webster, Neil A., Waucoma, Iowa. Chicken coop. No. 1,426,933; Aug. 22.
Webster, Ralph C., Haverhill, Mass., assignor to Fritz-Empire Double Pivot Last Company, Auburn, Me. Self-locking last. No. 1,426,428; Aug. 22.
Webster, William R., Bridgeport, Conn. Making brass and similar alloys. No. 1,426,623; Aug. 22.
Weidenfeller, Patrick Aberdeen, S. Dak. Oilproof piston ring. No. 1,426,694; Aug. 22.
Weightman, William A., and C. H. Nitsch, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Apparatus for producing sealed wrapped packages. No. 1,426,429; Aug. 22.
Weil, Edward L., Kearny, N. J. Valve remover. No. 1,426,799; Aug. 22.
Weiner, Ada, Everett, Mass. Combination toilet article. No. 1,427,040; Aug. 22.
Weller, Lynn E., Macy, Ind. Wire-fence clamp. No. 1,426,527; Aug. 22.
West, Julian, and E. C. Campbell, Norfolk, Va. Attachment to refrigerating apparatus. No. 1,427,041; Aug. 22.
Western Electric Company Incorporated. (See Adams, Arthur H., assignor.)

Western Electric Company. (See Arnold, H. D., and Minton, assignors.)
Western Electric Company. (See Beatty, William E., assignor.)
Western Electric Company. (See Clark, Edgar H., assignor.)
Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)
Western Electric Company. (See Cummings, George C., assignor.)
Western Electric Company. (See Dobson George G., assignor.)
Western Electric Company. (See Egerton, Henry C., assignor.)
Western Electric Company. (See Haddock, Arthur, assignor.)
Western Electric Company. (See Helsing, Raymond A., assignor.)
Western Electric Company. (See Hendry, W. F., and Reddig, assignors.)
Western Electric Company. (See Hendry, William F., assignor.)
Western Electric Company. (See McGall, P. K., and Menefee, assignors.)
Western Electric Company. (See Mathes, Robert C., assignor.)
Western Electric Company. (See Moore, Charles R., assignor.)
Western Electric Company. (See Mathes, R. C., and Read, assignors.)
Western Electric Company. (See Pfannenstiehl, H., and Bancroft, assignors.)
Western Electric Company. (See Hadu, John W., assignor.)
Western Electric Company. (See Riecken, William E., assignor.)
Western Electric Company. (See Speed, J. B., and Hutchinson, assignors.)
Western Electric Company Incorporated. (See Stenson, Olaf, assignor.)
Western Electric Company. (See Stoller, Hugh M., assignor.)
Western Electric Company Incorporated. (See Wilson, William, assignor.)
Wetmore, Douglas, Portsmouth, Va. Attachment for firearms. No. 1,427,042; Aug. 22.
Weyland, Hermann H. Habl, and R. Berendes, Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Pharmaceutical product. No. 1,426,430; Aug. 22.
Whaley, William B. S., New York, N. Y., assignor to American Whaley Engine Company, Boston, Mass. Timing and injecting device for internal-combustion engines. No. 1,426,934; Aug. 22.
Whelan, Thomas F. (See Waidelich, J. F., and Whelan.)
White, Bruce C., New York, N. Y. Multicolor-printing press. No. 1,426,431; Aug. 22.
White, Ernest M., Los Angeles, Calif. Gas-mixing device. No. 1,426,695; Aug. 22.
White, Frank R., Montclair, N. J. Bag holder. No. 1,426,528; Aug. 22.
Whitehouse, Walter P., Whitstable, England. Construction of wear-resisting and nonslipping surfaces, such as tire covers, stair treads, or the like. No. 1,426,800; Aug. 22.
Whitesell, John C., jr. (See Hoy, J. F., and Whitesell.)
Whitin Machine Works. (See Aldrich, William O., assignor.)
Whitley, Howze L., Bryan, Tex. Crank-shaft-adjusting means. No. 1,427,043; Aug. 22.
Wicks, Kirk E., trustee. (See Noel, C. J., and Hicks, assignors.)
Wiechert, George A., New York, N. Y. Tooth protector for dental clasps. No. 1,426,935; Aug. 22.
Wiegand, Hugo O., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company. Cloth clamp for textile machinery. No. 1,426,432; Aug. 22.
Wiesenberg, Nat, New York, N. Y. Manicure implement. No. 1,426,696; Aug. 22.
Wiley, Clarence F., Taunton, assignor to Magee Furnace Company, Boston, Mass. Stove. No. 1,426,433; Aug. 22.
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Shaft bearing. No. 1,426,936; Aug. 22.
Williams Brothers Manufacturing Company, The. (See Pinney, George H., assignor.)
Williams Motors Inc. (See Shaw, Louis E., assignor.)
Williams, Roland T. D. (See Avery, D., Stevens, and Williams.)
Williams, Simon F. (See Hart, Walter V., assignor.)
Williams, William R., New York, N. Y. Vehicle suspension. No. 1,426,529; Aug. 22.
Williams, William R., Philadelphia, Pa. Vehicle suspension. No. 1,427,081; Aug. 22.
Williams, Winfield, assignor to Patterson-Williams Mfg. Co., San Jose, Calif. Amusement device. No. 1,426,624; Aug. 22.
Williamson, Walter, New York, N. Y., assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Counter. No. 1,426,434; Aug. 22.
Wilson, Frederick D., assignor to Deere & Company, Moline, Ill. Grain wheel for harvesters. No. 1,426,987; Aug. 22.
Wilson, William, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Repeater for undulatory currents. No. 1,426,801; Aug. 22.
Wilson, William G., West Brighton, N. Y. Pastry lifter. No. 1,427,044; Aug. 22.
Windisch, Kurt. (See Bockmühl, M., and Windisch.)
Windle, Albert E., Gravelly Hill, Birmingham, England. Combined atomizer and burner for liquid fuels. No. 1,426,697; Aug. 22.
Windsor Manufacturing Company, The. (See Cope, Joseph H., assignor.)
Winkler, Frederick, Bloomfield, N. J. Polishing and tumbling barrel. No. 1,426,435; Aug. 22.
Wohlrab, Paul B. (See Schmaller, Ernst, assignor.)
Wood, Emory S., Commerce, Ga. Article display and delivering cabinet. No. 1,426,844; Aug. 22.
Wood, Wilfred R., London, England. Drying fuel supplied to furnaces or the like. No. 1,427,045; Aug. 22.
Woodard, William E., Forest Hills, N. Y., assignor to Franklin Railway Supply Company. Draft connection. No. 1,426,436; Aug. 22.
Woodward, Irving C., Chicago, Ill. Bolt for demountable wheels. No. 1,426,802; Aug. 22.
Wooldridge, John, Temple, assignor of one-half to M. Marks, Crawford, Tex. Cotton gin. No. 1,426,437; Aug. 22.
Wright, James W., Iowa, La. Platform for tractors. No. 1,426,938; Aug. 22.
Wright, John D., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,426,939; Aug. 22.
Wulff, Louis, Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,426,940; Aug. 22.
Yale & Towne Manufacturing Company, The. (See Augenbraun, Peter F., assignor.)
Yarrow, Harold E., Glasgow, Scotland. Operating furnaces. No. 1,427,046; Aug. 22.
Young, Charles, Indianapolis, Ind. Guard for woodworking machines. No. 1,426,625; Aug. 22.
Zahm, Albert F., Washington, D. C. Speed meter for aeroplanes. No. 1,426,698; Aug. 22.
Zakim, David, assignor to Sterling Metal Novelty M'f'g Co., Inc., New York, N. Y. Lead pencil. No. 1,426,438; Aug. 22.
Zalkind, Philip, New York, N. Y. Container. No. 1,426,439; Aug. 22.
Zannetti, Emanuel, Gloversville, N. Y. Brake-actuating device. No. 1,427,047; Aug. 22.
Zieche, Paul R., Moville Township, Woodbury County, Iowa. Tractor. No. 1,426,699; Aug. 22.
Zieschang, Richard, assignor of one-half to W. E. Stratton, London, England. Mop and wringing attachment therefor. No. 1,426,440; Aug. 22.
Zimmerman, William G., Everett, Wash. Apparatus for the manufacture of wirebound box blanks. No. 1,426,941; Aug. 22.
Zoerman, John H., Chicago, Ill. Thread-cutting tool. No. 1,426,441; Aug. 22.
Zottel, Herman J., Milwaukee, Wis. Lock nut. No. 1,426,530; Aug. 22.
Zwyssig, Adolf, Sisikon, Switzerland. Change-speed gear. No. 1,426,700; Aug. 22.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Ahrens, Lillian S., New York, N. Y. Quilted doll. No. 61,384; Aug. 22.
Betke, Herman F., Okmulgee, Okla. Netted fabric. No. 61,385; Aug. 22.
Colby, Willis H., Detroit, Mich. Combination inkwell, calendar, and desk rack. No. 61,386; Aug. 22.
Dodge, Frank W., assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Inflatable doll or similar article. Nos. 61,387–8; Aug. 22.
Havemeyer, Clara H., Springfield, Mass., assignor to Package Paper and Supply Corporation. Paper. Nos. 61,389–91; Aug. 22.
Hightstown Mfg. Co., Inc. (See Shapiro, Barnet, assignor.)
Hill, James D., Scottdale, Pa. Aviator-operated airplane. No. 61,392; Aug. 22.
Johnson, August, Mankato, Minn. Smoker's stand. No. 61,393; Aug. 22.
Kenyon, C., Company. (See Mitchell, Harold D., assignor.)
Ludlow, George M., Evanston, assignor to Sanitary Scale Company, Chicago, Ill. Computing scale. No. 61,394; Aug. 22.
McCook, Donald H., Oakland, Calif. Gas heater. No. 61,395; Aug. 22.
Mitchell, Harold D., assignor to C. Kenyon Company, Brooklyn, N. Y. Tire tread. No. 61,396; Aug. 22.
Package Paper and Supply Corporation. (See Havemeyer, Clara H., assignor.
Phoel, Philip, New York, N. Y. Finger ring. Nos. 61,397–8; Aug. 22.
Preiss, Richard, Chicago, Ill. Automobile radiator closure. No. 61,399; Aug. 22.
Ross, Harry A., Pittsburgh, Pa. Paper weight. No. 61,400; Aug. 22.
Sanitary Scale Company. (See Ludlow, George M., assignor.)
Seamless Rubber Company, The. (See Dodge, Frank W., assignor.)
Shapiro, Barnet, Sea Gate, N. Y., assignor to Hightstown Mfg. Co., Inc., Hightstown, N. J. Lace. No. 61,401; Aug. 22.
Trout, Charles L., New York, N. Y. Finger ring or similar article. No. 61,402; Aug. 22.
Tuomey, John, New York, N. Y. Radiator cap ornament for automobiles. No. 61,403; Aug. 22.
Tweedie, Charles, Jefferson City, Mo. Boot top. No. 61,404; Aug. 22.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A/S Tuborgs Fabrikker, Hellerup, near Copenhagen, Denmark. Nonalcoholic maltless beverage. No. 158,120; Aug. 22.

Abner-Drury Company, Washington, D. C. Ginger ale. No. 157,842; Aug. 22.

Absheer, Charles D., doing business as National Laboratories, San Antonio, Tex. Liver medicine in the form of capsules. No. 157,843; Aug. 22.

Acheson-Harden Co., The, New York, N. Y. Handkerchiefs. No. 157,844; Aug. 22.

Akron-Selle Company, The, Akron, Ohio. Liquid gauges. No. 157,845; Aug. 22.

Aktiengesellschaft Lignose, Berlin, Germany. Explosives, blasting powder, fuses, detonators, etc. No. 157,847; Aug. 22.

Aktieselskabet de Danske Spritfabrikker, Copenhagen, Denmark. Spirituous liquors. No. 157,846; Aug. 22.

American Bottling & Soda Water Co., San Francisco, Calif. Nonintoxicating, noncereal, maltless fruit beverage and sirups for same. No. 157,848; Aug. 22.

American Chemical Works, The, San Francisco, Calif. Noble-metal precipitants. No. 157,849; Aug. 22.

American Lady Corset Co., Detroit, Mich. Corsets, brassières, corset waists, hosiery, etc. No. 157,850; Aug. 22.

American Products Company, The. (See Mills Brothers Company.)

American Sundries Company, Chicago, Ill. Tooth paste. No. 157,851; Aug. 22.

Angell, Elizabeth M., Syracuse, N. Y. Compound for certain medicinal uses. Nos. 151,852–3; Aug. 22.

Angert, S. & J., Bros., Philadelphia, Pa., and Atlantic City, N. J. Nonalcoholic, noncereal, maltless beverages. No. 157,854; Aug. 22.

Arr Tee Knitting Mills, Philadelphia, Pa. Knitted sweaters. No. 157,855; Aug. 22.

Artistic Designers, Inc., Louisville, Ky. Raincoats and sweaters. No. 157,856; Aug. 22.

Aruny, Emanuel, West New Brighton, N. Y. Tapeworm remedy. No. 157,857; Aug. 22.

Ashcroft, Moses, trading as Moon Chuckle Products Co., Maywood and Chicago, Ill. Nonalcoholic, noncereal, maltless beverage and sirup for making the same. No. 157,858; Aug. 22.

Associated Commission Co., Inc., New York, N. Y. Woolen, worsted, linen, velvet, and other piece goods. No. 157,859; Aug. 22.

Aurora Bed Spread Co., Inc., New York, N. Y. Bedspreads. No. 157,860; Aug. 22.

Bailey Bros. Inc., Winston-Salem, N. C. Smoking tobacco. No. 157,861; Aug. 22.

Baird, Wm. W., doing business as Heyfema Company, Columbus, Ga. Medicine for the treatment of hay fever and colds. No. 157,862; Aug. 22.

Balbia Chemical Mfg. Co. (See Caporale, Severino.)

Barnard Toy Co., The, Detroit, Mich. Certain toys. No. 157,863; Aug. 22.

Beacon Manufacturing Company, Providence, R. I. Certain blankets, comfortables, bath-robe flannel, and blanket goods in the piece. No. 157,864; Aug. 22.

Bennett, George H., Kansas City, Mo. Film-cleaning fluid. No. 157,865; Aug. 22.

Berg, F., & Co., Orange, N. J. Men's felt hats. No. 157,866; Aug. 22.

Black, J., & Sons, Birmingham, Ala. Young men's and youths' coats, vests, pants, and overcoats. Nos. 157,867–8; Aug. 22.

Blackman, John J., doing business as Pepsol Company, Atlantic City, N. J. Tooth paste. No. 157,869; Aug. 22.

Blair, B. Reilly, doing business as Cyclone Rat Destroyer Company, Audubon, Iowa. Rat, mice, and squirrel poison. No. 158,068; Aug. 22.

Blank, Vernon D., doing business as Grinnell Games, Grinnell and Des Moines, Iowa. Table game played with disks and receptacles. No. 157,870; Aug. 22.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics in the piece. Nos. 158,089–93; Aug. 22.

Bob & Basklad, New York, N. Y. Men's shirts, boys' shirts and blouses. No. 157,871; Aug. 22.

Bonheim, Frank M., doing business as The Frank M. Bonheim Licorice & Beverage Co., St. Louis, Mo. Nonalcoholic maltless beverage and sirup and extract for making same. No. 157,872; Aug. 22.

Bonheim, Frank M., Licorice & Beverage Co., The. (See Bonheim, Frank M.)

Bowelax Co. (See Loesch, Ellsworth.

Brady, Byron, Scranton, Pa. Child's toy vehicle. No. 157,873; Aug. 22.

Branower, George I., doing business as Say Drug Products Co., New York, N. Y. Preparations for the treatment of coughs and colds. No. 157,874; Aug. 22.

Branower, George I., doing business as Say Drug Products Co., New York, N. Y. Preparation for the treatment of pyorrhea. No. 157,875; Aug. 22.

Brodinsky, David, doing business as Reliable Dry Goods Co., Springfield, Mass. Hosiery and underwear of knitted and textile fabric. No. 157,876; Aug. 22.

Brooks, Stephen H., Cleveland, Ohio. Fire-extinguishing liquid. No. 158,152; Aug. 22.

Brososky, Frank, Haywood, W. Va. Rat poison. No. 157,878; Aug. 22.

Brown, Rachel W., assignor to H. H. Simons, Detroit, Mich. Medicine for certain diseases. No. 157,877; Aug. 22.

Bruder, Edmund, Chicago, Ill. Game boards, indicator, counter, etc., and games played with a counter, indicator, or game piece. No. 157,879; Aug. 22.

Bryan & Sandbach, Jersey City, N. J. Coaster car for children. No. 157,880; Aug. 22.

Bryant, French & Company, Minneapolis, Minn. Certain medicinal preparations. No. 157,881; Aug. 22.

Butler, J. W., Paper Company, Chicago, Ill. Cover paper. No. 157,882; Aug. 22.

Byles, Alfred R., Myra, Tex. Hair tonic. No. 157,883; Aug. 22.

California Fruit Beverages Co., Los Angeles, Calif. Apple cider, grape juice, and fruit sirups for making soft drinks. No. 157,884; Aug. 22.

Calisher, Joseph H., New York, N. Y. Certain toilet preparations. No. 157,885; Aug. 22.

Cambridge Rubber Company. (See MacPherson, Warren.)

Capell Salt Company, Salt Lake City, Utah. Salt (sodium chloride). No. 158,153; Aug. 22.

Caporale, Severino, doing business as The Balbia Chemical Mfg. Co., Philadelphia, Pa. Hair tonic. No. 157,886; Aug. 22.

Carmela Nieto de Herrera e Hijos, Habana, Cuba, and New York, N. Y. Certain toilet preparations. No. 157,887; Aug. 22.

Carricite Company, The, Chicago, Ill. Chemical substance in the nature of a flux. No. 157,888; Aug. 22.

Carter Dry Goods Co., Louisville, Ky. Cotton piece goods. No. 157,889; Aug. 22.

Cavour Cigar Company, New York, N. Y. Cigars and smoking tobacco. No. 157,890; Aug. 22.

Challenge Cutlery Corporation, The, Bridgeport, Conn. Pocketknives. No. 157,891; Aug. 22.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 157,892; Aug. 22.

Cherry Blossom Mfg. Co., Newton, Iowa. Nonalcoholic, noncereal, maltless beverages and sirups for making same. Nos. 157,893–4; Aug. 22.

Cherry Pride Company, The, Chicago, Ill. Nonalcoholic, noncereal, maltless beverages and sirups for making the same. No. 157,895; Aug. 22.

Clark, Robert S., Olympia, Wash. Medicinal preparation used for the reduction of inflammations. No. 157,897; Aug. 22.

Clauss-Broeker Co., Elizabeth, N. J. Nonalcoholic, noncereal, maltless beverages, and sirups for making the same. No. 158,154; Aug. 22.

Cocuzza, Peter, Newark, N. J. Healing salve. No. 157,898; Aug. 22.

Cohen, N. B., Scranton, Pa. Hair nets. Nos. 157,899–903; Aug. 22.

Cohn, Goldwater Company, Los Angeles, Calif. Men's and boys' outer suits and trousers. No. 157,904; Aug. 22.

Cohrs, Henry, Hanover, Germany. Pharmaceutical preparation used internally for promoting the growth of hair. No. 157,905; Aug. 22.

Collene Laboratories Inc., New York, N. Y. Selenium colloids. No. 157,906; Aug. 22.

Colonial Dames Beautifier Company, Los Angeles, Calif. Beautifier (paste form), rouge, shampoo, hair tonic, depilatory, eyebrow pencil. No. 157,907; Aug. 22.

Colonial Rug Company, Waltham, Mass. Rugs made of wool and cotton, and carpets. No. 157,908; Aug. 22.

Colton & Collins, Inc., Oakland, Calif. Vaginal suppositories and a general tonic. No. 157,909; Aug. 22.

Comer Manufacturing Company, The, Dayton, Ohio. Raincoats, cravenettes, gabardines, bath robes, and ladies' skirts. No. 158,155; Aug. 22.

Conn, Andrew C., doing business as Eld-O-Lene Manufacturing Company, New Bedford, Mass. Medicinal salve for the treatment of rheumatism and kindred ailments. No. 157,910; Aug. 22.

Connor, L. H., San Francisco, Calif. Hair nets. No. 157,911; Aug. 22.

Cook, George C., doing business as The Honey Products Co., New York, N. Y. Beverages sold as soft drinks. No. 157,912; Aug. 22.

Copelof, Stillman & Co. Inc., New York, N. Y. Dresses, coats, cloaks, suits, and evening wraps for women. No. 157,913; Aug. 22.

Cosgrove Brothers, Inc., Milton and East Milton, Mass. Dolls. No. 157,914; Aug. 22.

Craven & Love, Pittsburgh, Pa. Pile remedy. No. 157,915; Aug. 22.

Craw, George R., Fort Wayne, Ind. Refrigerators. No. 157,916; Aug. 22.

Crawford-Wilsey Co., Lynn, Mass. Wooden figures of animals. No. 157,917; Aug. 22.
Crozer, John P., doing business as Samuel A. Crozer & Son, Upland, Pa. Cotton piece goods. No. 157,918; Aug. 22.
Crozer, Samuel A., & Son. (See Crozer, John P.)
Cyclone Rat Destroyer Company. (See Reilly, Blair B.)
Dalby, Thomas, Company, The, Watertown, Mass. Certain articles of clothing. No. 157,919; Aug. 22.
Davis, Sam, Indianapolis, Ind. Beverage sold as a soft drink and sirup for making the same. No. 157,920; Aug. 22.
Day, Adra L., doing business as Ideal Baby Shoe Company, Danvers, Mass. Shoes, slippers, and moccasins. No. 157,921; Aug. 22.
Defiance Welding Company, The, Defiance, Ohio. Acid-resisting garments formed of rubberized cloth. No. 157,922; Aug. 22.
De Nobili Cigar Co. Inc., Long Island City and New York, N. Y. Cigars. No. 157,923; Aug. 22.
Dentifruit, Inc., Chicago, Ill. Tooth paste. No. 157,924; Aug. 22.
Derma-Munna Co., New York, N. Y. Skin creams. No. 157,925; Aug. 22.
De Van, John E., Baltimore, Md. Tablets to be used for indigestion. No. 157,926; Aug. 22.
Dougherty, A., New York, N. Y. Playing cards. No. 157,927; Aug. 22.
Dow Chemical Company, The, Midland, Mich. Fungicides used for spraying or dusting plants. No. 157,928; Aug. 22.
Dreisbach, Edward J., Philadelphia, Pa. Medicinal ointment. No. 157,929; Aug. 22.
Duplan Silk Corporation, New York, N. Y. Silk piece goods. No. 157,930; Aug. 22.
Du Pont, E. I., de Nemours & Company, Wilmington, Del. High explosives. No. 157,931; Aug. 22.
Eastern Engineering Company, Revere, Mass. Roller coasters. No. 157,932; Aug. 22.
Eastern Hair Net Trading Co., New York, N. Y. Hair nets. No. 157,933; Aug. 22.
Elbro Knitting Mills, Milwaukee, Wis. Knitted outerwear, sweaters, coats, capes, hockey caps, hoods, etc. No. 157,934; Aug. 22.
Eld-O-Lene Manufacturing Company. (See Conn, Andrew C.)
Electrogene Chemical Co., The, Cleveland, Ohio. Electrolyte compound for batteries. No. 157,935; Aug. 22.
Ellsworth & Thayer Mfg. Co., Milwaukee, Wis. Leather or fabric gloves. No. 158,156; Aug. 22.
Ely & Walker Dry Goods Company, St. Louis, Mo. Certain textile fabrics. No. 157,936; Aug. 22.
Ely & Walker Dry Goods Company, St. Louis, Mo. Leather gloves, fabric gloves, and mittens. Nos. 157,937–8; Aug. 22.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 157,939; Aug. 22.
Engel, Albert W., doing business as Engel Manufacturing Company, Chicago, Ill. Blank gummed labels. No. 157,940; Aug. 22.
Engel Manufacturing Company. (See Engel, Albert W.)
Enoz Chemical Company, Chicago, Ill. Insecticide. No. 157,941; Aug. 22.
Exceptional Pictures Corporation, Wilmington, Del. Motion pictures. No. 157,943; Aug. 22.
Expert Cap Mfg. Co. Inc., Trenton, N. J. Silk, felt, cloth, and fur caps. No. 157,944; Aug. 22.
Famous Manufacturing Company, The. (See Harden, Harry.)
Fetterolf, H. G., Company, Philadelphia, Pa. Wool rugs and carpets. No. 158,157; Aug. 22.
Fewell, Glenmoore B., Birmingham, Ala. Antiseptic mouth wash for pyorrhea and diseases of gums. No. 157,945; Aug. 22.
First Aid Syrup Co., The. (See Silverman, E. & H.)
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 157,946–50; Aug. 22.
Fox Drug Co., Portland, Oreg. Headache powders. No. 157,951; Aug. 22.
Freedman & Co., Harrisburg, Pa. Hosiery. No. 157,952; Aug. 22.
Friedman Dress Company, Inc., New York, N. Y. Women's and girls' dresses. No. 157,953; Aug. 22.
Furman Company, San Antonio, Tex. Disinfectants, insecticides, and deodorant. No. 157,954; Aug. 22.
Galchinsky Bros., New York, N. Y. Hair nets. No. 157,955; Aug. 22.
Gans, Louis R., Brooklyn, N. Y. Certain household and porch furniture. No. 158,158; Aug. 22.
Gibson, Wm., & Co., Ltd., Kinghorn, Fife, Scotland. Iron heads for golf clubs and iron-headed golf clubs. No. 157,956; Aug. 22.
Gilson Company, The, Chicago, Ill. Caps for men, women, and children. No. 157,957; Aug. 22.
Ginzkey-Maffersdorf I., Inc., New York, N. Y. Woolen blankets. Nos. 157,958–60; Aug. 22.
Glotex Hosiery Co., New York, N. Y. Hosiery. No. 157,961; Aug. 22.
Gold Seal Products Company, Inc., Urbana, N. Y. Champagnes and wines. No. 157,962; Aug. 22.
Goldstein, David S., & Co., Chicago, Ill. Coats, jackets, vests, waistcoats, trousers, etc. No. 157,963; Aug. 22.
Goldy Brothers, New York, N. Y. Silk ribbons and silk and cotton ribbons. No. 157,964; Aug. 22.
Goulèd, Felix, New York, N. Y. Articles made of textile. No. 157,966; Aug. 22.
Grape Ola Products Corporation, New York, N. Y. Nonalcoholic maltless beverage sold as a soft drink. No. 157,967; Aug. 22.
Greenwood, F., Inc., Paterson, N. J. Nonalcoholic, nonceresl, maltless beverages, and sirups for making the same. No. 157,968; Aug. 22.
Grinnell Games. (See Blank, Vernon D.)
Hamburger Co., The, Chicago, Ill. Nonintoxicating, nonalcoholic, noncereal fruit beverage, and sirups for same. No. 157,969; Aug. 22.
Hammarlund, Henning, Svangsta, Sweden. Speedometers. No. 157,970; Aug. 22.
Hanscom Hardware Co., Haverhill, Mass. Snowshoes, skis, ski bindings and poles, sleds, baseballs, etc. No. 157,971; Aug. 22.
Harden, Harry, trading as The Famous Manufacturing Company, London, Ohio. Liquid preparation for certain uses. No. 157,972; Aug. 22.
Harker, C. R., Stagg & Morgan, Limited, doing business as Peldo Works, London, England. Skim cream. No. 157,973; Aug. 22.
Harrell Drug Co., (Inc.), Selma, Ala. Vitamine preparation for use as general tonic. No. 157,974; Aug. 22.
Harwell, Frank, Atlanta, Ga. Nonalcoholic, maltless beverage sold as a soft drink. No. 158,159; Aug. 22.
Hayfema Company. (See Baird, Wm. W.)
Herman, John C., & Co., Harrisburg, Pa. Cigars. No. 157,975; Aug. 22.
Hilles, Joseph M., Bridgeport, Pa. Medicine for blood poisoning or impoverished blood. No. 157,976; Aug. 22.
Hillman & Israel, New York, N. Y. Ladies' sweaters. No. 158,160; Aug. 22.
Hogue, Joseph V., New York, N. Y. Golf balls. No. 157,977; Aug. 22.
Holmac, Inc., New York, N. Y. Device for enabling a person to study and perfect himself in the game of golf. No. 157,978; Aug. 22.
Honey Products Co., The. (See Cook, George C.)
Hood, H. P., & Sons, Inc., Boston, Mass. Carbonated soft drinks and sirups. No. 157,979; Aug. 22.
Horton Manufacturing Co., The, Bristol, Conn. Steel shafts for golf clubs. No. 157,980; Aug. 22.
Houbigant, Inc. (See Perfumerie Houbigant.)
Hudor Co., The, Buffalo, N. Y. Ginger ale, root beer, sarsaparilla, birch beer, etc. No. 157,981; Aug. 22.
Hulse, A. C., jr., New York, N. Y. Hosiery. No. 157,982; Aug. 22.
Hut Neckwear Company, New York, N. Y. Men's and boys' cravats. No. 157,983; Aug. 22.
Hynds, Therese, New York, N. Y. Corsets. No. 157,984; Aug. 22.
Ideal Baby Shoe Company. (See Day, Adra L.)
Import Paper Company, Chicago, Ill. Writing paper. Nos. 157,985–6; Aug. 22.
Independent Salt Company, New York, N. Y. Salt. No. 157,987; Aug. 22.
Irondequoit Fruit Juice Co., Irondequoit, N. Y. Beverage and sirups for making same. No. 157,988; Aug. 22.
Jaquet, Daniel, trading as Parfums Fontanis, Neuilly sur Seine, Paris, France. Toilet preparations. No. 157,989; Aug. 22.
Joan Underwear Corporation, New York, N. Y. Silk, satin, crêpe de chine, and textile-fabric underwear for men, women, and children. No. 157,990; Aug. 22.
Johnson, Alexander K., Nashville, Tenn. Medicinal preparation for the treatment of the liver, kidneys, nerves, colds, etc. No. 157,991; Aug. 22.
Jones, Samuel, & Company, Newark, N. J. Gummed paper—that is, paper coated on one side with mucilage or gum. No. 157,992; Aug. 22.
Jönköpings Och Vulcans Tändsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. No. 157,993; Aug. 22.
Jordan Marsh Company, Boston, Mass. Hair nets. No. 157,994. Aug. 22.
Kämmer & Reinhardt A. G., Waltershausen, Gotha, Germany. Dolls and their parts. No. 157,995; Aug. 22.
King-Ferree Co. Inc., Greensboro, N. C. Cigars. No. 157,996; Aug. 22.
King, Leslie L., Columbus, Ohio. Toy banks. No. 157,997; Aug. 22.
Kohl, T. G., Company, Wausau, Wis. Chimney cleaners. No. 157,998; Aug. 22.
Kohn, Adler & Co., Philadelphia, Pa. Hats for women. No. 157,999; Aug. 22
Krueger, Gottfried, Brewing Company, Newark, N. J. Malt and hope extract for beverages. No. 157,965; Aug. 22.
Labolteaux, C. L., Company, The, Cincinnati, Ohio. Strawboard, box board, etc., and particularly binders' board. No. 157,896; Aug. 22.
Lady Nic Inc., New York, N. Y. Cigarettes. No. 158,000; Aug. 22.
L'Euterapica, Turin, Italy. Remedy for the treatment of biennorrhea. No. 157,942; Aug. 22.
La Societe des Produits Chimiques Coignet, Paris, France. Phosphorus. No. 158,001; Aug. 22.
Lesher, Whitman & Co., Inc., New York, N. Y. Draperies and upholsteries. No. 158,028; Aug. 22.
Lionne Company, The, Needham, Mass. Compound for certain named uses. No. 158,002; Aug. 22.
Loesch, Ellsworth, doing business as Bowelax Co., Cleveland, Ohio. Laxative tablets. No. 158,003; Aug. 22.

Lord Baltimore Bottling Company. (See Schonhoff, John Z.)
Louisville Paper Co., Louisville, Ky. Bond paper. No. 158,004; Aug. 22.
Lyon, Julian W., & Co., New York, N. Y. Thymol, menthol, chlorophyl, essential oils suitable for production of perfumes, etc. No. 158,005; Aug. 22.
McCrosky Bros., Oakland, Calif. Doll heads. No. 158,006; Aug. 22.
Maass & Kemper, Inc., Baltimore, Md. Middy blouses, children's dresses, boys' wash suits. No. 158,007; Aug. 22.
MacPherson, Warren, doing business as Cambridge Rubber Company, Cambridge, Mass. Raincoats. No. 158,008; Aug. 22.
Magnin & Co., San Francisco, Calif. Toilet preparations. No. 158,009; Aug. 22.
Mallinckrodt Chemical Works, St. Louis, Mo. Developer for photographic purposes. No. 158,010; Aug. 22.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 158,011; Aug. 22.
Marcelle Corporation, The, Philadelphia, Pa. Misses' and women's dresses. No. 158,012; Aug. 22.
Marlott, John E., Latrobe, Pa. Medicines for medicinal treatment of sore gums, toothache, etc. No. 158,013; Aug. 22.
Martin and Newnom, Flint, Mich. Medicinal preparation used in the treatment of diseases of women. No. 158,015; Aug. 22.
Martin Sons and Company Limited, Lindley, borough of Huddersfield, England. Cloths and stuffs of wool, worsted, or hair. No. 158,014; Aug. 22.
Masury-Young Company, Boston, Mass. Wool oils and fulling and scouring oils. No. 158,016; Aug. 22.
Matson, C. H., & Co. (See Matson, Charles H.)
Matson, Charles H., doing business as C. H. Matson & Co., Jersey City, N. J. Preparation for external application in the treatment of rheumatism, neuralgia, etc. No. 158,017; Aug. 22.
May Hosiery Mills, The, Burlington, N. C. Men's, women's, and children's hosiery. No. 158,018; Aug. 22.
Menter Co., Inc., The, New York, N. Y. Blank home-budget books. No. 158,019; Aug. 22.
Metcalfe, C. G., Georgiana, Ala. Medicine for the treatment of headache and neuralgia, for pains in la grippe, etc. No. 158,020; Aug. 22.
Metzler, Henry, New York, N. Y. Ladies' blouses. No. 158,021; Aug. 22.
Michaels Stern & Co., Rochester, N. Y. Men's and boys' suits and overcoats. Nos. 158,022–3; Aug. 22.
Migel, J. A., Inc., New York, N. Y. Certain articles of clothing. Nos. 158,024–6; Aug. 22.
Milligan, James C., Pittsburgh, Pa. Toy dart or arrow. No. 158,027; Aug. 22.
Mills Brothers Company, The, doing business as The American Products Company, Cincinnati, Ohio. Tooth, hair, shaving, bath, and vegetable brushes. No. 158,029; Aug. 22.
Milwaukee-Waukesha Brewing Company, Waukesha, Wis. Maltless cereal sirup for beverages. No. 158,030; Aug. 22.
Milwaukee-Waukesha Brewing Company, Waukesha, Wis. Malt sirup for beverages. No. 158,031; Aug. 22.
Mock & Judson, New York, N. Y. Hosiery. No. 158,032; Aug. 22.
Moon Chuckle Products Co. (See Ashcroft, Moses.)
Mucine Products Company, Chicago, Ill. Embrocations known as spinal massage creams. No. 158,033; Aug. 22.
Murry, George E., Pequea, Pa. Liniment for certain uses. No. 158,034; Aug. 22.
Muszynski, Kazimierz J., Buffalo, N. Y. Eye tonic. No. 158,035; Aug. 22.
Myers Manufacturing Co., Los Angeles, Calif. Bathing suits. No. 158,036; Aug. 22.
National Consolidated Drug Co., Great Falls, Mont. Certain medicinal preparations. No. 158,037; Aug. 22.
National Garter Company, Cincinnati, Ohio. Garters. No. 158,038; Aug. 22.
National Laboratories. (See Abshear, Charles D.)
National Tool Company, The, Cleveland, Ohio. Milling cutters, reamers, counterbores, etc. No. 158,039; Aug. 22.
Nazareth Waist Co., Nazareth, Pa. Waist union suits, union suits, undershirts, and drawers. No. 158,040; Aug. 22.
Niederkorn, Joseph S., Versailles, Ohio. Remedy for the prevention and relief of seasickness. No. 158,041; Aug. 22.
Nu-Iron Laboratory Incorporated, The, Denver, Colo. General medicinal tonic. No. 158,042; Aug. 22.
Nu-Life Company, Cuyahoga Falls, Ohio. General tonic for poultry, pigeons, and turkeys. No. 158,043; Aug. 22.
O'Connor, Katharyn A., New York, N. Y. Hair tonic. No. 158,044; Aug. 22.
Ogus, Rabinovitch and Ogus Co., Chicago, Ill. Hats for ladies, misses, and children. No. 158,045; Aug. 22.
Oliver, Charles C., doing business as Oliver-Eaton Co., Montclair, N. J. Toilet preparations. No. 158,046; Aug. 22.
Oliver-Eaton Co. (See Oliver, Charles C.)
O'Rourke, Eubanks Hat Co., San Francisco, Calif. Men's hats. No. 158,047; Aug. 22.
Osten, Otto, Chicago, Ill. Bleaching materials. No. 158,048; Aug. 22.
Ottawa Cushion Co., Ottawa, Ill. Porch swing, and chair cushions and pads, piano bench pads, boat and canoe cushions, etc. No. 158,161; Aug. 22.
Pacific Knitting Mills, Los Angeles, Calif. Men's, women's, and children's bathing suits and sweater coats. No. 158,162; Aug. 22.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 158,049–50; Aug. 22.
Palleyesch, Barney L., doing business as Pals Chemical Company, Brooklyn, N. Y. Liquid preparation for treating and relieving pain to the gums. No. 158,051; Aug. 22.
Pals Chemical Company. (See Palleyesch, Barney L.)
Parfums Fontanis. (See Jaquet, Daniel.)
Park Laboratory Company, San Antonio, Tex. Salve for use in treatment of colds, coughs, influenza, burns, etc. No. 158,053; Aug. 22.
Parrish, Harry A., doing business as The Pyramid Products Co., Berkeley, Calif. Scalp tonic. No. 158,054; Aug. 22.
Peldo Works. (See Harker, C. R., Stagg, and Morgan.)
Pelzer Manufacturing Company, Pelzer, S. C. Sheetings. No. 158,055; Aug. 22.
Pennsylvania Knitting Mills, The, Philadelphia, Pa. Sweaters. No. 158,056; Aug. 22.
Pepsol Company. (See Blackman, John J.)
Perfection Mattress & Spring Co., The, Birmingham, Ala. Mattresses. No. 158,163; Aug. 22.
Perfection Mattress & Spring Co., The, Birmingham, Ala. Bed springs. No. 158,164; Aug. 22.
Perfection Mattress & Spring Co., The, Birmingham, Ala. Mattresses. No. 158,165; Aug. 22.
Perfumerie Houbigant, Paris, France, assignor to Houbigant, Inc., New York, N. Y. Perfumes, toilet waters, sachet, and sachet powders. No. 158,052; Aug. 22.
Perry Knitting Company, The, Perry, N. Y. Children's knit underwear. No. 158,057; Aug. 22.
Phytamin Corporation, The, Wilmington, Del., and New York, N. Y. Medicinal food product for use as a general tonic. Nos. 158,058–9; Aug. 22.
Piroxloid Products Corporation, New York, N. Y. Games of the table-board type. No. 158,060; Aug. 22.
Pope, Virginia, New York, N. Y. Outergarment for women and girls to be worn as a dress or as knickerbockers. No. 158,061; Aug. 22.
Poudreries Reunies de Belgique Societe Anonyme, Brussels, Belgium. Explosive powders, dynamite, detonators, etc. No. 158,062; Aug. 22.
Premier Malt Sales Corp. (See Wielich, Albert.)
Pyramid Products Co., The. (See Parrish, Harry A.)
Rahn, Earl W., Cleveland, Ohio. Medicinal capsules for hay fever, asthma, etc. No. 158,063; Aug. 22.
Reeder, D. G., doing business as Reeder Manufacturing Company, Atlanta, Ga. Antiseptic deodorant powder. No. 158,064; Aug. 22.
Reeder Manufacturing Company. (See Reeder, D. G.)
Reese, J. L., Inc., Albany, N. Y. Maltless flavoring sirups used in the preparation of soft drinks. No. 158,065; Aug. 22.
Reid, Murdoch & Co., Chicago, Ill. Cigars. Nos. 158,066–7; Aug. 22.
Reliable Dry Goods Co. (See Brodinsky, David.)
Reliance Metal Spinning & Stamping Co. Inc., Brooklyn, N. Y. Ash receivers and trays. No. 158,069; Aug. 22.
Republic Rubber Corporation, The, Youngstown, Ohio. Shoe soles and heels made of rubber or composition rubber. No. 158,070; Aug. 22.
Reynolds, C. W., New York, N. Y. Hydraulic jacks. No. 158,071; Aug. 22.
Richardson, A. J., Crafton-Borough, Pa. Preparation for the removal of superfluous hair. No. 158,072; Aug. 22.
Ripley, George A., doing business as Ripley Shirt Manufacturing Company, Dallas, Tex. Men's dress shirts. No. 158,073; Aug. 22.
Ripley Shirt Manufacturing Company. (See Ripley, George A.)
Roberts, Ella L., Los Angeles, Calif. Combination camisole and drawers. No. 158,074; Aug. 22.
Robles, Dorothy M., Los Angeles, Calif. Children's frocks and rompers for outer wear. No. 158,075; Aug. 22.
Rockwell-Barnes Company, Chicago, Ill. Binders, blank books, clip boards, copy cloths, etc. No. 158,076; Aug. 22.
Rosebud Mfg. Co., New York, N. Y. Dresses, petticoats, blouses, shirt waists, and aprons. No. 158,077; Aug. 22.
Rosenfeld, M. C., Company, doing business as Standard Malt Product Co., Boston, Mass. Malt extract. No. 158,078; Aug. 22.
Rossville Company, The, Lawrenceburg, Ind. Liniment—that is, an alcoholic rub. No. 158,079; Aug. 22.
San Antonio Drug Co., San Antonio, Tex. Waxed, wrapping, crepe, tissue, and toilet paper. No. 158,080; Aug. 22.
Sappington, J. W., doing business as The Two & Three Quarters Company, Fort Worth, Tex. Nonalcoholic malt cereal beverage sold as soft drink. No. 158,081; Aug. 22.
Say Drug Products Co. (See Branower, George I.)
Schmidt, Henry A., College Point, N. Y. Stylographic ink pencils. No. 158,082; Aug. 22.

Schonhoff, John Z., trading as Lord Baltimore Bottling Company, Baltimore, Md. Ginger ale. No. 158,093; Aug. 22.

Schramm-Schramm Co., Chicago, Ill. Extracts to be used for beverage purposes. No. 158,094; Aug. 22.

Sharp & Dohme, Baltimore, Md. Medicinal tonic for treatment of rheumatism. No. 158,095; Aug. 22.

Shepard's Pharmacentical Company, St. Louis, Mo. Medicinal preparation for the treatment of certain diseases. No. 158,096; Aug. 22.

Shilvek Brothers Fabrics Corporation, New York, N. Y. Wool, wool and cotton, and wool and silk mixture fabrics in the piece. Nos. 158,097–8; Aug. 22.

Silverman, E. & H., doing business as The First Aid Syrup Co., Hazleton, Pa. Noncereal, nonalcoholic, maltless beverage. No. 158,094; Aug. 22.

Simons, Henry H. (See Brown, Rachel W., assignor.)

Sitroux Importing Company, Inc., New York, N. Y. Hair nets. No. 158,095; Aug. 22.

Slattery, E. T., Company, Boston, Mass. Toothbrushes. No. 158,096; Aug. 22.

Smith Manufactoring Co. Inc., Ellensburg, Wash. Toy bicycle. No. 158,097; Aug. 22.

Smith's, Dr., Stock Vigor Remedies Company, Atlanta, Ga. Certain medicines for stock, horses, dogs, and poultry. No. 158,098; Aug. 22.

Sonfo Company, Chicago, Ill. Medical compound for treating colds, coughs, hay fever, catarrh, etc. No. 158,099; Aug. 22.

Solvono Chemical Co., Wilmington, Del. Carbon remover of a chemical nature. No. 158,100; Aug. 22.

Sopshin, Max, doing business as Split Rock Bottling Works, Mount Vernon, N. Y. Nonalcoholic, maltless, celery tonic beverage. No. 158,101; Aug. 22.

Split Rock Bottling Works. (See Sopshin, Max.)

Spray Engineering Company, Boston, Mass. Water and other liquid spraying systems and parts of said systems. No. 158,102; Aug. 22.

St. Joseph Tent & Awning Co., St. Joseph, Mo. Fireman's heavy duck night coats, duck night pants, hunting coats, and white duck packers' frocks. No. 158,106; Aug. 22.

Standard Bottling Company, Limited, Medicine Hat, Alberta, Canada. Nonalcoholic maltless beverage and sirups and extracts for making same. No. 158,103; Aug. 22.

Standard Malt Product Co. (See Rosenfeld, M. C., Company.)

Star Extract Works, New York, N. Y. Nonalcoholic maltless beverage and extract. No. 158,104; Aug. 22.

Stein, Abraham M., Los Angeles, Calif. Ointment for catarrh, hay fever, sprains, etc. No. 158,105; Aug. 22.

Steinberger Bros. Lobl Co., New York, N. Y. Leather and fabric gloves. No. 158,107; Aug. 22.

Stuart, C. A., Kansas City, Mo. Liquid massage preparation for certain named purposes. No. 158,108; Aug. 22.

Supreme Pyramid Ancient Egyptian Order of Sciots, San Francisco, Calif. Fezes. No. 158,109; Aug. 22.

Sussfeld, Lorsch & Schimmel, New York, N. Y. Condensing lenses used in motion-picture, spotlight, stereopticon, and photographic apparatus. No. 158,110; Aug. 22.

Tamor Brothers, New York, N. Y. Hosiery. No. 158,111; Aug. 22.

Texas Gulf Sulphur Company, New York, N. Y. Sulphur inoculated with bacteria. No. 158,112; Aug. 22.

Texas Gulf Sulphur Company, New York, N. Y. Sulphur and sulphur inoculated with bacteria. No. 158,113; Aug. 22.

Theocaridis, Homer, New York, N. Y. Cigarettes. No. 158,114; Aug. 22.

Tilton & Keeler, Inc., New York, N. Y. Cotton piece goods. No. 158,115; Aug. 22.

Tolhurst Machine Works, Troy, N. Y. Centrifugal drying machines, also known as hydroextractors. No. 158,116; Aug. 22.

Trendwell Engineering Company, Easton, Pa. Machinery. No. 158,117; Aug. 22.

Tremont & Suffolk Mills, Lowell, Mass. Gray cotton blankets. No. 158,118; Aug. 22.

Treuting, Elmer C., San Francisco, Calif. Gland tablets. No. 158,119; Aug. 22.

"Turmac" Turkish-Macedonian Tobacco Co., Arnhem, Netherlands. Smoking and chewing tobacco, cigars, cigarettes, and snuff. Nos. 158,121–2; Aug. 22.

Turner, Halsey Co., New York, N. Y. Bleached cotton duck. No. 158,166; Aug. 22.

Turner, Nellie F., New York, N. Y. Cigarettes. No. 158,123; Aug. 22.

Two & Three Quarters Company. (See Sappington, J. W.)

Undertakers Supply Company, Chicago, Ill. Embalming fluid. No. 158,124; Aug. 22.

United Alloy Steel Corporation, New York, N. Y., and Canton, Ohio. Black and galvanized sheets. No. 158,125; Aug. 22.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Machines and parts thereof and tools used in the manufacture of boots and shoes. No. 158,129; Aug. 22.

United States and South America Corporation, New York, N. Y. Aniline colors and dyes, dentifrices, perfumes, etc. No. 158,130; Aug. 22.

United States Envelope Company, Springfield, Mass. Envelopes. No. 158,127; Aug. 22.

United States Hair Net Co., Chicago, Ill. Hair nets. No. 158,126; Aug. 22.

United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. No. 158,128; Aug. 22.

Uradia Company, Houston, Tex. Liquids for charging and recharging batteries. No. 158,131; Aug. 22.

Van Boskirk, Ethel, South Bend, Ind. Ointment for sprains, bruises, rheumatism, nervousness, etc. No. 158,132; Aug. 22.

Van Raalte Company, Inc., New York, N. Y. Hosiery. No. 158,133; Aug. 22.

Vivandou, V., Inc., New York, N. Y. Veils, hair nets, silk piece goods, woolen piece goods, and lace curtains. No. 158,134; Aug. 22.

Walbaum, Goulden & Co., Reims, France. Champagne wines. Nos. 158,135–6; Aug. 22.

Waldron, George G., New York, N. Y. Hair tonics and hair dressings. No. 158,137; Aug. 22.

Wanamaker, John, New York, New York, N. Y. Golf balls. No. 158,138; Aug. 22.

Wanamaker, William H., Philadelphia, Pa. Men's and young men's overcoats. No. 158,139; Aug. 22.

Waxtwell Paper Company, Grand Rapids, Mich. Wrapping paper. No. 158,140; Aug. 22.

Weber Lifelike Fly Co., The, Stevens Point, Wis. Artificial fishing baits. No. 158,141; Aug. 22.

West Disinfecting Company, New York, N. Y. Liquid disinfectants, antiseptics, and purifiers. No. 158,142; Aug. 22.

Whitfield, Madam D. W. (See Whitfield, Mary L.)

Whitfield, Mary L., trading as Madam D. W. Whitfield, Americus, Ga. Preparation for the scalp used as a tonic and for promoting the growth of hair. No. 158,143; Aug. 22.

Widoe, Walter W., Omaha, Nebr. Smokers' pipes. No. 158,144; Aug. 22.

Wielich, Albert, doing business as Premier Malt Sales Corp., New York, N. Y. Malt extracts. No. 158,145; Aug. 22.

Wiley-Bickford-Sweet Co., The, Worcester, Mass. Knitted fabrics in the piece. No. 158,146; Aug. 22.

Williams & Frederick Inc., New York, N. Y. Toilet preparations. No. 158,147; Aug. 22.

Winthrop Chemical Company, Inc., New York, N. Y. Antiseptic and alterative. No. 158,148; Aug. 22.

Wood, Carroll E., Roanoke, Va. Tonic diuretic for the kidneys and bladder. No. 158,149; Aug. 22.

Wood, H. H., & Company, Laconia, N. H. Hosiery. No. 158,150; Aug. 22.

Woolleather Corp., Salem, Mass. Dusting brooms, dusting brushes, and wool dusters. No. 158,151; Aug. 22.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acheson Manufacturing Company, Rankin, Pa. Cocks, ball cocks, and Mansfield ball cocks. No. 163,210; Aug. 22.

Acme Cracker Co., Chicago, Ill. Cakes. No. 152,228; Aug. 22.

Adden, W. L., Mullins, S. C. Salves for skin diseases. No. 131,371; Aug. 22.

Alberico, Michele, Cleveland, Ohio. Preparation for the treatment of cancer. No. 159,548; Aug. 22.

Alcone Knitting Mills, San Francisco, Calif. Men's knitted coats for outer wear. No. 161,666; Aug. 22.

Allen Flour Company, San Francisco, Calif. Bread. No. 151,246; Aug. 22.

Almo Products Co. Inc., New York, N. Y. Flavors, extracts, and emulsions for food purposes, pie-filling powders, etc. No. 145,428; Aug. 22.

American Thread Company, The, New York, N. Y. Spool and sewing cotton, cotton thread for manufacturing purposes, cotton yarn, etc. No. 157,125; Aug. 22.

Anderson-Dulin-Varnell Co., Knoxville, Tenn. Shoes. No. 160,785; Aug. 22.

Apco Manufacturing Company, Providence, R. I. Anti-rattlers, brake-rod supports, axle braces, license brackets, steering-column braces, etc. No. 137,651; Aug. 22.

Aud Company, Inc., The, Herndon, Va. Life-saving suits. No. 128,263; Aug. 22.

Augenblick, M., & Bro., Newark, N. J. Butter, eggs, lard, and dressed poultry. No. 145,488; Aug. 22.

Automotive Appliances Mfg. Co., New Brunswick, N. J. Oil cock. No. 161,914; Aug. 22.

Ayer, Harriet Hubbard, New York, N. Y. Perfumes. Nos. 162,967–9; Aug. 22.

Ayer, Harriet Hubbard, New York, N. Y. Perfumes. Nos. 162,971–5; Aug. 22.

Baxter, Frank C., doing business as National Specials Company, New York, N. Y. Household dishes. No. 161,298; Aug. 22.

Bel-Mont Laboratories. (See Gross, William H.)

Beneke & Kropf Manufacturing Company, Chicago, Ill. Toilet seats. No. 166,432; Aug. 22.

Benollel, Solomon D., doing business as International Chemical Co., Philadelphia, Pa. Lubricant for use in connection with the working of metal. No. 158,816; Aug. 22.

Best & Co., Inc., New York, N. Y. Men's and boys' furnishings, undergarments and clothing; women's, girls', and misses' clothing. No. 156,673; Aug. 22.

Blake, McFall Company, Portland, Oreg. Bond paper for printing, writing, and wrapping purposes. No. 161,295; Aug. 22.

Blaustein, Louis, doing business as American Oil Company, Baltimore, Md. Motor oil and greases, auto oil and greases for lubricating purposes, etc. No. 158,670; Aug. 22.

Boots Pure Drug Company, Ltd., Nottingham, England. Toning and fixing solutions, developers, intensifiers, all used in photography. No. 143,340; Aug. 22.

Boots Pure Drug Company, Ltd., Nottingham, England. Throat tablets. No. 143,341; Aug. 22.

Boots Pure Drug Company, Ltd., Nottingham, England. Remedies for colds, coughs, catarrh, and inflammations. No. 143,342; Aug. 22.

Boots Pure Drug Company, Ltd., Nottingham, England. Remedy or relief in cases of seasickness, train sickness, and nausea. No. 143,343; Aug. 22.

Boots Pure Drug Company, Ltd., Nottingham, England. Deodorants. No. 143,344; Aug. 22.

Boots Pure Drug Company, Ltd., Nottingham, England. Obesity and antifat remedies. No. 143,345; Aug. 22.

Bowman Drug Company, Oakland, Calif. Rubbing preparation for external use. No. 163,667; Aug. 22.

Brooks Tent & Awning Company, The, Denver, Colo. Tents. No. 154,120; Aug. 22.

Brown, S. W., Company, Glendale, Calif. Noncereal maltless beverages sold as soft drinks and sirups used in preparation of same. No. 166,631; Aug. 22.

Brush, Chas. L., doing business as More Candy Co., Los Angeles, Calif. Cough drops. No. 163,372; Aug. 22.

Burberrys Limited, London, England. Cloths of wool, worsted, and hair in the piece. No. 143,081; Aug. 22.

California Packing Corporation, San Francisco, Calif. Canned plums. No. 155,046; Aug. 22.

Cambridge Rubber Company, Cambridge, Mass. Raincoats. No. 161,109; Aug. 22.

Candela, Domenico, New York, N. Y. Olive oil. No. 155,598; Aug. 22.

Cape County Milling Company, Jackson, Mo. Self-rising flour. No. 152,788; Aug. 22.

Capeverdian Trading Company, East Wareham, Mass. Roasted and ground cereals for use as a breakfast food. No. 112,655; Aug. 22.

Cartagena & Mavro, New York, N. Y. Anchovies in salt and in olive oil, canned vegetables, pimientos, artichokes, and olive oil. No. 150,733; Aug. 22.

Cavanaugh, Frederick J., New York, N. Y. Embroidered lace in the piece. No. 160,659; Aug. 22.

Chase & Anderson, Minneapolis, Minn. Filler for French pastry, topping for ice cream, cake, and sauce. No. 159,560; Aug. 22.

Chester Lace Mills, Chester, Pa. Lace curtains and nets or curtain lace in piece goods. No. 165,182; Aug. 22.

Chicago Flexible Shaft Company, Chicago, Ill. Lawn sprinklers. No. 166,980; Aug. 22.

Citrus Products Company, Chicago, Ill. Beverages and sirups and concentrates for making same. No. 154,483; Aug. 22.

Clark Car Company, Pittsburgh and Johnstown, Pa. Dump cars. No. 147,661; Aug. 22.

Clothier, Giles & Co. Limited, Yeovil, England. Leather gloves. No. 154,485; Aug. 22.

Coppola, James C., doing business as Pola-Gloss Manufacturing Co., Astoria, N. Y. Furniture polish. No. 153,619; Aug. 22.

Cortland Line Co. Inc., Cortland, N. Y. Japan hard braid silk fishing lines. No. 164,395; Aug. 22.

Cosgrove Brothers, Inc., Milton and East Milton, Mass. Petticoats and bloomers. No. 161,671; Aug. 22.

Crane, L. M., & Company, Boston, Mass. Lubricating oils and greases. No. 156,477; Aug. 22.

Creo-Dipt Company, Inc., North Tonawanda, N. Y. Nails. No. 165,581; Aug. 22.

Daniel, L., & Sons, New York, N. Y. Knitting and crocheting artificial silk, threads, and yarns. No. 153,131; Aug. 22.

De Bevoise, Chas. R., Co., Newark, N. J. Brassières. No. 161,238; Aug. 22.

Dennos Food Co. of Portland, Portland, Oreg. Wholewheat milk food. No. 147,094; Aug. 22.

De Pars, W. M., doing business as Perfect Pocket Pipe Company, Paterson, N. J. Pipes. No. 163,921; Aug. 22.

Deschapelles, Collins & Co., Inc., New York, N. Y. Vegetables. No. 132,517; Aug. 22.

Des Moines Glove & Mfg. Company Inc., Des Moines, Iowa. Gloves and baseball mitts. No. 159,086; Aug. 22.

Display Doughnut Machine Corporation, New York, N. Y. Food oils. No. 155,090; Aug. 22.

Dixie Laboratories, Atlanta, Ga. Hair tonic. No. 154,014; Aug. 22.

Dreyfus & Company, Wilmington, Del., and Richmond, Va. Hosiery. No. 161,919; Aug. 22.

Dunhill, Alfred, London, England, assignor to Alfred Dunhill of London, Inc., New York, N. Y. Smoking tobacco. No. 153,078; Aug. 22.

Dunhill, Alfred, of London, Inc. (See Dunhill, Alfred, assignor.)

Emery Art Fruit Co., Inwood, N. Y. Artificial fruits for decorative purposes in homes and other places. No. 162,671; Aug. 22.

Enola, Cosmetic Co., San Francisco, Calif. Face powders, face creams, perfumes, toilet waters, rouges, hair tonics, etc. No. 163,575; Aug. 22.

Enro Shirt Company, Louisville, Ky. Dress and outer shirts undershirts, collars, pyjamas, and drawers. No. 158,672; Aug. 22.

Ensign Shoe Co., The, Belfast, Me. Shoes. No. 161,980; Aug. 22.

Enterprise Manufacturing Company, The, Akron, Ohio. Artificial minnows and fishing lines. No. 166,296; Aug. 22.

Enterprise Manufacturing Company, The, Akron, Ohio. Snelled hooks, gut leaders, and artificial flies. No. 166,297; Aug. 22.

Everett, Heaney & Co. Inc., New York, N. Y. Cotton piece goods. Nos. 166,818–19; Aug. 22.

Everett Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 163,506; Aug. 22.

Faulk, Maximilian N., Philadelphia, Pa. Shirt-waist hangers. No. 154,407; Aug. 22.

Fink & Rock, Inc., New York, N. Y. Vanishing cream, almond and lemon cream, brilliantine, mud massage, etc. No. 163,513; Aug. 22.

Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. No. 144,672; Aug. 22.

Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. No. 152,794; Aug. 22.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 166,439–43; Aug. 22.

Foot, Schulze & Co., St. Paul, Minn. Children's leather boots and shoes. No. 164,635; Aug. 22.

Freihofer, William, Baking Co., Wilmington, Del. Bread. No. 125,082; Aug. 22.

Froidevaux Cie. (See Thomas, Lillian S.)

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Fruitrite Products Company, Los Angeles, Calif. Beverages sold as soft drinks and sirup used in preparation of same. No. 166,992; Aug. 22.

Geneva Citrus Growers Association, Geneva, Fla. Fresh citrus fruits. No. 154,872; Aug. 22.

George, Nicolas A. F. (administrator). (See Société Anonyme des Produits du Lion Noir.)

Globe Grain & Milling Company, Los Angeles, Calif. Wheat flour, macaroni, spaghetti, corn meal, etc. No. 137,936; Aug. 22.

Goldenberg, Joseph G., doing business as Standard Veterinary Products Company, Philadelphia, Pa. Shampoo liniment, medicated alcohol, mange mixture. No. 159,150; Aug. 22.

Golden State Bottling Co., Oakland, Calif. Nonalcoholic, maltless beverage sold as soft drink. No. 163,977; Aug. 22.

Gomez & Sloan, Inc., New York, N. Y. Canned salmon, peas, and condensed milk, wheat flour, coffee, etc. No. 153,399; Aug. 22.

Gonick, Nisin, New York, N. Y. Poultry tonic and remedy used for moulting time to help chickens grow, for leg weakness, etc. No. 157,481; Aug. 22.

Grand Junction Mining & Fuel Company, The, Denver, Colo. Bituminous coal. No. 147,923; Aug. 22.

Gross, William H., doing business as Bel-Mont Laboratories, Philadelphia, Pa. Medicinal preparation for the treatment of sore throat, etc. No. 163,578; Aug. 22.

Gross, William H., doing business as Bel Mont Laboratories, Philadelphia, Pa. Medicinal preparation used in the treatment of anemia, loss of appetite, etc. No. 163,579; Aug. 22.

Gross, William H., doing business as Bel Mont Laboratories, Philadelphia, Pa. Medicinal preparation used for the treatment of acute chronic kidney, bladder, and urinary disorders, etc. No. 163,580; Aug. 22.

Gross, William H., doing business as Bel Mont Laboratories, Philadelphia, Pa. Medicinal preparation used in the treatment of dyspepsia, indigestion, sick headache, etc. No. 163,581; Aug. 22.

Haas Brothers Fabrics Corporation, New York, N. Y. Silk, artificial silk, linen, woolen, and cotton piece goods, and combinations thereof. No. 166,758; Aug. 22.

Hairon Company. (See Hosick, Harry C.)

Henry-Brown Co. Inc., Glendale, Calif. Beverage sold as soft drink and sirups used in preparation of same and a concentrate. No. 164,245; Aug. 22.

Henry-Brown Company, Inc., Glendale, Calif. Nonceral maltless beverages sold as soft drinks and sirups used in preparation of same. No. 166,687; Aug. 22.

Heppes-Nelson Roofing Company, The, Chicago, Ill., assignor to The Richardson Company, Lockland, Ohio. Prepared roofing, building board and paper, etc. No. 131,578; Aug. 22.

Hibben, Hollweg & Co., Indianapolis, Ind. Linen piece goods. No. 164,042; Aug. 22.

Hiscox Chemical Works, Patchogue, N. Y. Toilet lotion. No. 163,335; Aug. 22.

Hoefelmayr, K., doing business as K. Hoefelmayr Edelweiss Camembert Fabrik, Kempten, Germany. Cheese, butter, milk, etc. No. 141,722; Aug. 22.

Hoefelmayr, K., Edelweiss Camembert Fabrik. (See Hoefelmayr, K.)

Hodge-Falk Corporation, San Francisco, Calif. Ladies' hats. No. 161,996; Aug. 22.

Hosick, Harry C., doing business as Hairon Company, Toledo, Ohio. Preparation for premature or receding baldness. No. 161,835; Aug. 22.

Hugo, John, Manufacturing Company, The, New Haven, Conn. Toy dog and kennel. No. 163,520; Aug. 22.

Huth, Gillespie & Company, Inc., New York, N. Y. Cottonseed oil for food purposes. No. 151,712; Aug. 22.

Hy-Gen-Ol Laboratory, Spring Valley, N. Y. Tooth paste. No. 163,334; Aug. 22.

Independent Salt Company, New York, N. Y. Salt. No. 162,010; Aug. 22.

Indianapolis Tent & Awning Co., Indianapolis, Ind. Tents and tarpaulins. No. 159,467; Aug. 22.

Instant Products Corporation. (See Morin, Stanley.)

International Chemical Co. (See Benoliel, Solomon D.)

Iten Biscuit Co., Omaha, Nebr. Cakes. No. 152,564; Aug. 22.

Jacob Lamb Baking Co., The, Cleveland, Ohio. Bread. No. 131,797; Aug. 22.

Jasmine Ink Corporation, Norfolk, Va. Bluing. No. 163,080; Aug. 22.

Jenkins Vulcan Spring Co., Richmond, Ind. Automobile springs of the leaf type. No. 132,535; Aug. 22.

Johnson Educator Food Co., Cambridge, Mass. Sugar wafers. No. 141,588; Aug. 22.

Johnson Educator Food Company, Cambridge, Mass. Sugar wafers. Nos. 143,820–1; Aug. 22.

Johansen Bros. Shoe Company, St. Louis, Mo. Shoes. No. 160,194; Aug. 22.

Jönköpings Och Vulcans Tändsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. No. 155,041; Aug. 22.

Kemo & Peatley, Inc., New York, N. Y. Tablecloths, doilies, and mat covers. No. 130,174; Aug. 22.

Kenilworth Manufacturing Co., Inc., New York, N. Y. Knickers, bloomers, middy blouses, etc., for females. No. 161,556; Aug. 22.

Krohn-Fechheimer Co., The, Cincinnati, Ohio. Leather boots and shoes. No. 160,013; Aug. 22.

Large & Roomy Overall Mfg. Co., The, Cincinnati Ohio. Men's, boys', and children's overalls and trousers. No. 161,842; Aug. 22.

Lederer, Dr. Otto, Paris, France. Cupping outfits and parts thereof, aspirators and parts thereof, etc. No. 156,092; Aug. 22.

Lehigh Silk Hosiery Mills, Inc., New York, N. Y. Hosiery. No. 161,268; Aug. 22.

Levinson, Sol, San Francisco, Calif. Boxing and fighting gloves. No. 143,360; Aug. 22.

Liggett, Milton, Seymour, Iowa. Chicken feed. No. 152,162; Aug. 22.

Lind Shoe and Slipper Co., Worcester, Mass. Felt slippers. No. 160,713; Aug. 22.

Maag, August, Company, The, Baltimore, Md. Tinned bake pans. No. 163,846; Aug. 22.

Machunze, Henry F., Brooklyn, N. Y. Preparation for the treatment of rheumatism, gout, etc. No. 163,817; Aug. 22.

Magill, Samuel N., Inc., Philadelphia, Pa. Underskirts and petticoats. No. 162,035; Aug. 22.

Magnum Import Co. Inc., New York, N. Y. Perfumes, toilet waters, face powders, etc. No. 163,165; Aug. 22.

Magnus, S. W., & Co., New York, N. Y. Handkerchiefs. No. 166,706; Aug. 22.

Marinello Company, La Crosse, Wis. Wrinkle paste. No. 163,100; Aug. 22.

Marshall Field & Company, Chicago, Ill. Cotton batting. Nos. 164,891–3; Aug. 22.

Marshall Field & Company, Chicago, Ill. Piece goods—viz, cretonne. No. 166,067; Aug. 22.

Marshall Field & Company, Chicago, Ill. Hair nets. No. 166,668; Aug. 22.

McAvoy Company, doing business as Wacker & Birk Co., Chicago, Ill. Beverages sold as soft drinks and sirups used in preparation of same. No. 167,096; Aug. 22.

Merriam, G. & C., Company, Springfield, Mass. Dictionaries published from time to time. No. 162,837; Aug. 22.

Metz, Herman A., New York, N. Y. Dyes and dyestuffs. No. 163,278; Aug. 22.

Miller, Dwight H., doing business as The Munsiecp Company, Sacramento, Calif. Antisnoring device. No. 157,458; Aug. 22.

Miller, J. D., Millersburg, Ohio. Wheat flour. No. 152,027; Aug. 22.

More Candy Co. (See Brush, Chas. L.)

Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Cold-water wall finish. No. 154,638; Aug. 22.

Morin, Stanley, doing business as Instant Carbon Remover Company, Corona, N. Y., and Instant Products Corporation, Boston, Mass. Chemical carbon remover and chemical grease and stain remover. No. 134,477; Aug. 22.

Motor Wheel Corporation, Lansing, Mich. Load-carrying wheels. No. 153,095; Aug. 22.

Mulholland, John H., Philadelphia, Pa. Cakes, cakes especially molded for holding and serving ice cream, etc. No. 148,800; Aug. 22.

Munsiecp Company, The. (See Miller, Dwight H.)

Murphy, J. E., & Co., Eagle Pass, Tex. Wheat flour. No. 147,443; Aug. 22.

Mutual Cap Front Mfg. Co., New York, N. Y. Peaks or visors for caps. No. 161,496; Aug. 22.

National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 142,995; Aug. 22.

National Specials Company. (See Baxter, Frank C.)

Newfoundland Fish Products, Limited, London, England. Smoked cod fillets, preserved flaked fish, fish paste, etc. No. 152,475; Aug. 22.

New York Extract & Perfumery Co. (See Rinciari, John.)

North Atlantic Oyster Farms, Inc., South Norwalk, Conn. Oysters in their natural state and canned oysters. No. 153,224; Aug. 22.

Novelty Sport Hosiery Mills, Inc., New York, N. Y. Hosiery. No. 161,697; Aug. 22.

Nutrose Company, Inc., The, Wilmington, Del., and Philadelphia, Pa. Yeastlike bread-making composition. No. 146,923; Aug. 22.

Otoy, C. M., & Co., Los Angeles, Calif. Fresh cantaloupes. No. 153,687; Aug. 22.

Pacific Knitting Mills, Inc., Los Angeles, Calif. Sweater or knit-goods coat and bathing suits. No. 161,142; Aug. 22.

Palmer, William T., & Company, Inc., New York, N. Y. Elastic webbing. No. 158,887; Aug. 22.

Palmer, William T., & Company, Inc., New York, N. Y. Crochet twist. No. 163,002; Aug. 22.

Panther Rubber Manufacturing Company, Stoughton, Mass. Rubber heels. Nos. 163,054–5; Aug. 22.

Panther Rubber Manufacturing Company, Stoughton, Mass. Rubber soles and taps. No. 163,056; Aug. 22.

Panther Rubber Manufacturing Company, Stoughton, Mass. Rubber heels. No. 163,057; Aug. 22.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Parfumerie Roger & Gallet, Paris, France. Pastes and powders for the teeth, skin, and hair, and perfumery. No. 148,165; Aug. 22.

Parke, Davis & Company, Detroit, Mich. Counterirritants. No. 163,646; Aug. 22.

Patten, Ernest L., Salt Lake City, Utah. Hair restorers. No. 161,951; Aug. 22.

Pearson Piano Company, Indianapolis, Ind. Varnish healer and restorer. No. 149,719; Aug. 22.

Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Corsets, women's underwear and night gowns. No. 161,748; Aug. 22.

Penn Rivet Corporation, Philadelphia, Pa. Rivets. No. 164,554; Aug. 22.

Perfect, A. H., & Co., Fort Wayne and Huntington, Ind., and Sturgis, Mich. Wheat flour, rolled oats, coffee, tea, etc. No. 145,357; Aug. 22.

Perfect Pocket Pipe Company. (See de Pars, W. M.)

Pierce, Chambers L., Chicago, Ill. Confections. No. 158,950; Aug. 22.

Podesta Import Company, San Francisco, Calif. Mushrooms in oil, olive oil, canned fish, mushroom sauce, dry mushrooms, etc. No. 152,585; Aug. 22.

Pola-Gloss Manufacturing Co. (See Coppola, James C.)

Pope Cut Glass Company Inc., New York, N. Y. Cut-glass articles. No. 98,121; Aug. 22.

Primeaux, Francis, Orange, Tex. Medicinal preparation for the relief of dysentery. No. 159,102; Aug. 22.

Quaker Lace Company, Philadelphia, Pa. Lace curtains and nets or curtain lace goods in the piece. No. 165,207; Aug. 22.

Rainbo Paper Favor Works, Chicago, Ill. Toy favors. No. 163,183; Aug. 22.

Red Star Milling Company, The, Wichita, Kans. Wheat flour. No. 136,725; Aug. 22.

Rees, Edmund E., Chicago, Ill. Game of indoor football. No. 161,897; Aug. 22.

Remington Salt Company, Ithaca, N. Y. Salt. No. 163,286; Aug. 22.

Remington Salt Company, Ithaca, N. Y. Salt. Nos. 163,288–9; Aug. 22.

Rex-Hide Rubber Manufacturing Company, East Brady, Pa. Vulcanizable material. Nos. 163,945–6; Aug. 22.

Rice-Stix Dry Goods Company, St. Louis, Mo. Men's and boys' clothing. No. 161,703; Aug. 22.

Richardson Company, The. (See Heppes-Nelson Roofing Company, assignor.)

Rinciari, John, doing business as New York Extract & Perfumery Co., New York, N. Y. Hair tonic. No. 163,766; Aug. 22.

Robinson, Donald. (See Tuttle, Sarah W., assignor.)

Rosenberg, Frances, New York, N. Y. Ladies' bloomers, brassières, step-ins, etc. No. 162,056; Aug. 22.

Rosenwald & Weil Inc., Chicago, Ill. Men's, women's, and misses' overcoats, raincoats, suits, etc. No. 161,149; Aug. 22.

Rothstein, Aaron J., doing business as Triangle Thread Mills, New York, N. Y. Mercerized and plain cotton thread. No. 158,446; Aug. 22.

Rubino-Destafino Co., New York, N. Y. Doilies, table linens, bedspreads, etc. No. 163,284; Aug. 22.

Salfer, Dave W., Chicago, Ill. Women's footwear. No. 153,571; Aug. 22.

Sal-Ruf Co., New York, N. Y. Hats and caps for men, women, and children. No. 161,281; Aug. 22.

Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 165,310; Aug. 22.

Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 165,312; Aug. 22.

Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, caps, suits, costumes, etc. No. 159,119; Aug. 22.

Schram Glass Manufacturing Company, Hillsboro, Ill., and St. Louis, Mo. Glass jars. No. 158,952; Aug. 22.

Schulze Baking Company, Chicago, Ill. Bread. No. 147,129; Aug. 22.

Schwarzbart, Justin, Berlin, Germany. Mentholated cotton. No. 156,241; Aug. 22.

Sealright Company Inc., Fulton, N. Y. Closure disks for bottles and other containers. No. 133,989; Aug. 22.

Seydel Manufacturing Company, Jersey City, N. J. Intravenous mercurial preparations. No. 161,751; Aug. 22.

Shannon Chemical Company. (See Shannon, J. F.)

Shannon, J. F., doing business as The Shannon Chemical Company, Dubois, Pa. Remedy for ailments of the mouth and throat. No. 163,194; Aug. 22.

Sherman, Henry L., Arlington Heights, Mass. Canned grapefruit in cans and glasses. No. 159,056; Aug. 22.

Sherman, Raymond H., Cleveland, Ohio. Shoe dressing. No. 149,100; Aug. 22.

Shoe Products Co., Inc., The, New York, N. Y. Satin in the piece. No. 166,472; Aug. 22.

Silberman, Louis, & Sons, Philadelphia, Pa. Finished sole leather. No. 163,549; Aug. 22.

Simons, Ernest, Mfg. Co., Port Chester, N. Y. Boys' shirts and blouses. No. 161,588; Aug. 22.

Société Anonyme des Produits du Lion Noir, by Nicolas A. F. George (administrator), Montrogue, near Paris, France. Furniture and floor polishes and waxes, preservatives, etc. No. 146,090; Aug. 22.

Sorensen, Soren T., St. Paul, Minn. Girls' leather shoes. No. 156,244; Aug. 22.

Spilton & Glanzrock, New York, N. Y. Men's and boys' suits, overcoats, topcoats, trousers, etc. No. 162,139; Aug. 22.

Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Axle and black greases, cable-lubricating oils, etc. No. 157,179; Aug. 22.

Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum with or without admixture of other materials. No. 153,374; Aug. 22.

Standard Veterinary Products. (See Goldenberg, Joseph G.)

Standard Wall Paper Co., Hudson Falls, N. Y. Pulp colors and dry colors. No. 163,603; Aug. 22.

Steinhardt, A., & Bro. Inc., New York, N. Y. Shirt bands. No. 161,859; Aug. 22.

St. Paul Milling Co., The, St. Paul, Minn. Wheat flour. No. 152,189; Aug. 22.

Street & Smith Corporation, New York, N. Y. Fiction magazines issued weekly. No. 158,655; Aug. 22.

Strong, Carlisle & Hammond Company, Cleveland, Ohio. Steam specialties, comprising valves and seats and other wearing parts of steam traps, etc. No. 166,152; Aug. 22.

Tendick Shoe Manufacturing Co., Milwaukee, Wis. Leather slippers. No. 157,389; Aug. 22.

Textile Manufacturing Co., The, Chester, Pa. Artificial-silk fiber. No. 160,519; Aug. 22.

Theobald Flour Mills Co., The, Northfield, Minn. Wheat flour. No. 132,129; Aug. 22.

Thomas, Lillian S., doing business as Froidevaux Cie., New York, N. Y. Deodorant. No. 163,011; Aug. 22.

Thomas, Lillian S., doing business as Froidevaux Cie., New York, N. Y. Toilet creams and powders. No. 163,012; Aug. 22.

Triangle Thread Mills. (See Rothstein, Aaron J.)

Tuckett Tobacco Company, Limited, The, Hamilton, Ontario, Canada. Cigars, smoking tobacco, and cigarettes. No. 162,781; Aug. 2.

Tuttle & Harmon. (See Tuttle, Sarah W.)

Tuttle, Sarah W., doing business as Tuttle & Harmon, Burton, Ohio, assignor to D. Robinson, Middlefield, Ohio. Maple sirup. No. 159,229; Aug. 22.

Ulmann, Bernhard, Co., Inc., New York, N. Y. Initial and monogram books, design books, and patterns for art needlework, etc. No. 161,760; Aug. 22.

Ulrich & Donaldson, New York, N. Y. Taffeta cloth. No. 162,361; Aug. 22.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Ink, dye, or stain used in the manufacture and repair of boots and shoes. No. 148,042; Aug. 22.

United Star Herb Medicine Co., Jersey City, N. J. Certain medicinal herb preparations. No. 161,759; Aug. 22.

U. S. Neckwear Co., Boston, Mass. Ladies' and men's ties. No. 159,734; Aug. 22.

Van Bealen, Heilbrun & Co., New York, N. Y. Bath and lounging robes for men, women, and children, smoking jackets for men. No. 158,102; Aug. 22.

Vivaudou, V., Inc., New York, N. Y. Face powders, face creams, perfumes, etc. No. 163,720; Aug. 22.

Vivaudou, V., Inc., New York, N. Y. Face powders, face creams, perfumes, toilet waters, rouges, etc. No. 163,906; Aug. 22.

Wacker & Birk Co. (See McAvoy Company.)

Wadsworth Salt Company, The, Wadsworth, Ohio. Salt. No. 163,019; Aug. 22.

Warshaw, Philip H., New York, N. Y. Hair tonic. No. 163,724; Aug. 22.

Wenatchee Valley Fruit Exchange, Inc., Cashmere, Wash. Fresh cherries, peaches, plums, apples, etc. No. 159,450; Aug. 22.

White, William L., Philadelphia, Pa. Adhesive substance of a mucilaginous nature. Nos. 155,845–6; Aug. 22.

Zinsser, William & Company, Incorporated, New York, N. Y. Bronze powders, bronzing liquids, driers, enamels, etc. No. 158,163; Aug. 22.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF AUGUST, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrasive-material-feeding machine. F. L. Moore. No. 1,426,758; Aug. 22.
Acetaldehyde, Manufacturing. H. W. Matheson. (Reissue.) No. 15,434; Aug. 22.
Acids from distillery waste, Recovering volatile organic. L. M. Burghart. No. 1,426,457; Aug. 22.
Acoustic device. C. R. Moore. No. 1,426,757; Aug. 22.
Aerial craft. J. C. Savage. No. 1,426,413; Aug. 22.
Aero heater, Manifold. A. G. Bridgford and S. B. Bolton. No. 1,427,057; Aug. 22.
Aeroplanes, Fabricated covering for. O. T. Belcher. No. 1,426,626; Aug. 22.
Aeroplanes, Speed meter for. A. F. Zahm. No. 1,426,698; Aug. 22.
Air compressor, Garage. G. E. Hazard. No. 1,426,869; Aug. 22.
Air-cushion hub. B. V. Loutzkoy. No. 1,426,886; Aug. 22.
Air draw-molding machine, Compressed-. G. F. Gustafson. No. 1,426,378; Aug. 22.
Air-induction cleaning apparatus. R. P. Sweeny. No. 1,426,518; Aug. 22.
Aircraft propellers, with blades of variable incidence and cambering, System of. R. P. Pescara. No. 1,427,015; Aug. 22.
Aircraft, Wing and similar member of. F. H. Page. No. 1,427,012; Aug. 22.
Alarm: *See*—
Fire alarm.
Aldehydes and separating the same from the other products formed, Apparatus for making. A. A. Backhaus and F. B. Arentz. No. 1,426,449; Aug. 22.
Alkyl-amino compounds, Manufacture of aromatic. W. N. Haworth and F. W. Atack. No. 1,426,380; Aug. 22.
Alternator, High-frequency. E. F. W. Alexanderson. No. 1,426,943; Aug. 22.
Amplifiers from oscillating, Method and means for preventing. R. A. Heising. No. 1,426,733; Aug. 22.
Amusement device. W. Williams. No. 1,426,624; Aug. 22.
Amusement-park device. P. Simon. No. 1,426,418; Aug. 22.
Applicator brush. J. A. Rayder. No. 1,426,909; Aug. 22.
Arch support. R. Lustig. No. 1,426,750; Aug. 22.
Armrest. C. R. Spencer. No. 1,426,787; Aug. 22.
Arsenate of lead, Manufacturing. A. O. Allen. No. 1,427,049; Aug. 22.
Atomizer and burner for liquid fuels, Combined. A. E. Windle. No. 1,426,697; Aug. 22.
Andions, Manufacturing. W. F. Hendry. No. 1,426,734; Aug. 22.
Autoclave. O. S. Sleeper. No. 1,426,930; Aug. 22.
Automobile attachment. G. Loforese. No. 1,427,080; Aug. 22.
Automobile fender. S. G. Fitz Simons. No. 1,426,371; Aug. 22.
Automobile horn. C. N. Dalbey. No. 1,427,072; Aug. 22.
Automobile license plate. P. B. Giles. No. 1,426,856; Aug. 22.
Automobile lock. J. M. Palmer. No. 1,426,666; Aug. 22.
Automobile repair derrick. J. and S. Imbler. No. 1,426,386; Aug. 22.
Automobile running boards, Brace for. W. Hagglund. No. 1,426,564; Aug. 22.
Automobile signal. Y. Shiba. No. 1,426,610; Aug. 22.
Automobile signal. A. St. Jean and I. Lafleur. No. 1,426,612; Aug. 22.
Automobile sun shield. E. W. Toadvine. No. 1,427,038; Aug. 22.
Automobile tops, Connecting device for. V. D. Ross. No. 1,426,912; Aug. 22.
Automobile turntable. A. Shuster. No. 1,426,679; Aug. 22.
Automobiles, Attachment for windshields for. B. Custer. No. 1,426,716; Aug. 22.
Automobiles, Folding curtain for. F. A. Dunham. No. 1,426,969; Aug. 22.
Autotransformer. A. D. Riccia. No. 1,426,775; Aug. 22.
Bag. A. Bruns. No. 1,426,814; Aug. 22.
Bag holder. F. R. White. No. 1,426,528; Aug. 22.
Baling press. T. Cook. No. 1,426,819; Aug. 22.
Ball: *See*—
Golf ball.
Ball, Golf. A. S. Chatfield. No. 1,426,712; Aug. 22.
Balloon, Dirigible. J. W. Gilbert. No. 1,426,726; Aug. 22.
Bank protective apparatus. W. F. Cervenka. No. 1,427,065; Aug. 22.
Barge, Log-carrying. B. L. Johnson. No. 1,426,990; Aug. 22.
Barn-cleaning implement. F. A. Kruse. No. 1,426,653; Aug. 22.
Barn-cleaning mechanism. F. A. Kruse. No. 1,426,654; Aug. 22.
Barrel, Polishing and tumbling. F. Winkler. No. 1,426,435; Aug. 22.
Bathtub. T. J. Swift. No. 1,426,519; Aug. 22.
Battery: *See*—
Storage battery.
Battery electrolyte, Electric-. L. G. Orsolino. No. 1,427,011; Aug. 22.
Beam and reel. F. Mossberg. No. 1,426,898; Aug. 22.
Beam hanger. F. M. Mechling. No. 1,426,834; Aug. 22.
Bearing, Antifriction. A. P. Brush. No. 1,426,353; Aug. 22.
Bearing, Roller. C. I. Lott. No. 1,426,578; Aug. 22.
Bearing, Shaft. J. Wilkinson. No. 1,426,936; Aug. 22.
Bed bottom. J. Rooks. No. 1,427,020; Aug. 22.
Bed, Spring. O. N. Farnham. No. 1,426,972; Aug. 22.
Belt, Driving. L. A. Walker. No. 1,426,796; Aug. 22.
Belt, Metallic link. S. Matsumoto. No. 1,427,008; Aug. 22.
Bench: *See*—
Workbench.
Bench block. J. J. McGuckin. No. 1,426,658; Aug. 22.
Binder, Loose-leaf. R. L. Esson. No. 1,426,468; Aug. 22.
Bit: *See*—
Drill bit. Rotary bit.
Blank holding and ejecting mechanism. H. C. Hook. No. 1,426,738; Aug. 22.
Bleach solutions, Preparation of liquid. J. H. Macmahon. No. 1,426,752; Aug. 22.
Block: *See*—
Bench block.
Bloomers. H. M. Walsh. No. 1,426,525; Aug. 22.
Blow-out, Safety. D. F. Keith. No. 1,426,650; Aug. 22.
Board: *See*—
Game board. Stove board.
Boiler. D. M. Naismith. No. 1,426,590; Aug. 22.
Book cover, Sales-. F. Hachmann. Nos. 1,426,631–2; Aug. 22.
Book holder. R. M. Davis. No. 1,427,074; Aug. 22.
Boring and facing machine, Combination. W. J. Hempy. No. 1,426,987; Aug. 22.
Bottle-cap-dispensing container. L. B. Hoover. No. 1,426,988; Aug. 22.
Bottle cap, Milk-. A. B. Kendall. No. 1,426,994; Aug. 22.
Bottle cover and cap remover, Milk-. F. J. Lapointe. No. 1,426,396; Aug. 22.
Bottle stopper, Sanitary. A. W. Graham. No. 1,426,728; Aug. 22.
Box: *See*—
Paper box. Sound box.
Box-blank machine. J. B. Schmidt. No. 1,426,608; Aug. 22.
Box blanks, Apparatus for the manufacture of wire-bound. W. G. Zimmerman. No. 1,426,941; Aug. 22.
Box clamp. M. Kunkel. No. 1,426,394; Aug. 22.
Brake: *See*—
Car brake.
Brake. W. T. Bonner. No. 1,426,543; Aug. 22.
Brake-actuating device. E. Zannetti. No. 1,427,047; Aug. 22.
Brake-beam hanger. C. F. Retzer and C. Legard. No. 1,426,506; Aug. 22.
Brake mechanism. W. C. Baker. No. 1,426,450; Aug. 22.
Brass and similar alloys, Making. W. R. Webster. No. 1,426,623; Aug. 22.
Brassière. A. M. Godchaux. No. 1,426,727; Aug. 22.
Brick shapes, Machine for molding. C. L. Norton. No. 1,426,761; Aug. 22.
Brood chambers and shallow extracting supers, Comb for. H. L. Cress, jr. No. 1,426,551; Aug. 22.
Brooder construction. T. W. Hunter. No. 1,426,874; Aug. 22.
Broom and brush heads, Boring and stuffing machine for. G. Henning. No. 1,426,382; Aug. 22.
Brush container, Varnish-. J. W. Ward. No. 1,426,622; Aug. 22.
Buckle. C. E. Peterson. No. 1,426,905; Aug. 22.
Buckle, Belt. G. Wade. No. 1,426,794; Aug. 22.
Buckle, Rustless. M. Hawle. No. 1,426,634; Aug. 22.

Buckstay. J. F. Lewis and J. W. Kagarise. No. 1,426,748; Aug. 22.
Building. Sheet-metal. F. J. G. Maisenhalder. No. 1,427,007; Aug. 22.
Bumper, Resilient. G. W. J. Crabb. No. 1,426,964; Aug. 22.
Bumper support. C. H. Hathaway and W. A. Starck. No. 1,426,565; Aug. 22.
Burner: *See*—
Gas burner. Oil burner.
Liquid-fuel burner.
Button. E. Kielmmann. No. 1,426,651; Aug. 22.
Button Lapel. R. Laux. No. 1,426,487; Aug. 22.
Cadmium test device. B. J. Haskins. No. 1,426,868; Aug. 22.
Calculating device. G. R. Flynn. No. 1,426,829; Aug. 22.
Calculating device, Numerical. G. G. Dobson. No. 1,426,825; Aug. 22.
Calculating machine. W. H. Brown. No. 1,426,710; Aug. 22.
Calendar, Perpetual. G. G. Grunewald and M. Sweet. No. 1,426,982; Aug. 22.
Callpers. H. Koebke. No. 1,426,878; Aug. 22.
Cam, Adjustable interrupter. W. E. Schwarzmann. No. 1,426,609; Aug. 22.
Camera. J. P. Cleal and C. H. Gibbons. No. 1,426,713; Aug. 22.
Can: *See*—
Oil can.
Can-feeding device. L. S. Mende. No. 1,426,659; Aug. 22.
Can holder, Preserve. C. A. Ives. No. 1,426,387; Aug. 22.
Can opener. F. E. Reeder. No. 1,426,673; Aug. 22.
Car and train-pipe coupling, Combination. O. Hebert. No. 1,426,732; Aug. 22.
Car brake, Motor-. D. G. Macpherson. No. 1,426,753; Aug. 22.
Car coupling. G. Krum. No. 1,426,652; Aug. 22.
Car control and air brake equipment, Safety. G. Macloskie. No. 1,426,893; Aug. 22.
Car, Dumping. C. A. Griffith. No. 1,426,729; Aug. 22.
Car journal. A. Melville. No. 1,426,895; Aug. 22.
Carboy. C. Lefkowitz, E. E. Ross, and H. Lubin. No. 1,426,889; Aug. 22.
Carburetor. W. H. Collier. No. 1,426,714; Aug. 22.
Card-sorting machines, Single-column selector for. R. E. Page. No. 1,426,499; Aug. 22.
Carriage, Collapsible. C. V. Richardson. No. 1,426,601; Aug. 22.
Carrier: *See*—
Luggage carrier.
Carrying case and camping table, Combination. R. M. Corpstein. No. 1,426,962; Aug. 22.
Case: *See*—
Display case.
Caskets, Handle holder for. F. M. Sonday. No. 1,426,785; Aug. 22.
Caskets in shipping boxes, Means for securing. J. R. Burkhardt. No. 1,426,355; Aug. 22.
Caster for showcases. S. Berman. No. 1,426,452; Aug. 22.
Caster socket, Top-bearing-. W. H. Noelting. No. 1,426,494; Aug. 22.
Catalysts and effecting catalytic reactions therewith, Non-pyrophoric. N. Sulzberger. No. 1,426,517; Aug. 22.
Cement mill. A. Berglund. No. 1,426,812; Aug. 22.
Cereals, Apparatus for drying and sterilizing. A. Huhn. No. 1,426,385; Aug. 22.
Chain, Antiskid. W. H. Lucas, jr. No. 1,427,003; Aug. 22.
Chain, Flexible. C. M. Levy. No. 1,426,884; Aug. 22.
Chain link coupling. J. D. King. No. 1,426,877; Aug. 22.
Charcoal furnace. B. Brantley. No. 1,427,055; Aug. 22.
Chiropractic table. H. F. Stowe. No. 1,426,422; Aug. 22.
Chuck. J. A. Axelsson. No. 1,426,704; Aug. 22.
Chuck. D. L. Risset. No. 1,426,541; Aug. 22.
Cigars in glass tubes, Method and package for. E. Vallens. No. 1,426,792; Aug. 22.
Cinematograph machine. I. Sutherland. No. 1,426,614; Aug. 22.
Cinematograph machines, Automatic safety shutter for. J. J. Gschwender. No. 1,426,630; Aug. 22.
Ciphering device. R. E. Pierce. No. 1,426,669; Aug. 22.
Circuit-breaker tripping structure. T. B. Eastburn. No. 1,426,467; Aug. 22.
Circuit relay, Closed-. P. Kardaetz. No. 1,426,993; Aug. 22.
Circuits, Universal cord. J. E. Hilbish. No. 1,426,478; Aug. 22.
Clamp: *See*—
Box clamp. Wire-fence clamp.
Clasp: *See*—
Garment clasp.
Cleaner: *See*—
Vacuum cleaner. Watch and jewelry cleaner.
Clocks, Chime attachment for. W. H. Allen. No. 1,426,806; Aug. 22.
Clothesline. W. O. Altman. No. 1,427,051; Aug. 22.
Coating metal objects with a layer of another metal. O. Stålhane and O. O. Kring. No. 1,426,683; Aug. 22.
Cock, Gas. G. H. Harris. No. 1,426,731; Aug. 22.
Cold-roll feeding mechanism. E. T. Lorig and H. G. McIlvried. No. 1,427,002; Aug. 22.
Collapsible handle. J. W. Bate. No. 1,426,809; Aug. 22.
Collar. H. B. Stoddard. No. 1,427,032; Aug. 22.
Collar saddle. H. G. Anderson. No. 1,426,533; Aug. 22.
Combination-operated lock. F. Gambino. No. 1,426,977; Aug. 22.
Commutator. G. E. Cook. No. 1,426,960; Aug. 22.
Compound, Cleansing. R. and H. Moore. No. 1,426,589; Aug. 22.
Compressing machine. T. Lund. No. 1,426,399; Aug. 22.
Compressors, Impeller for centrifugal. A. A. Brooks. No. 1,426,954; Aug. 22.
Compressors, Impeller for centrifugal. G. W. McKee. No. 1,426,581; Aug. 22.
Computing and recording machine. A. Smith. No. 1,426,419; Aug. 22.
Concrete mold. L. Harris. No. 1,426,866; Aug. 22.
Container. L. C. Palmer. No. 1,426,500; Aug. 22.
Container. P. Zalkind. No. 1,426,439; Aug. 22.
Controlling device. H. A. Troup. No. 1,426,686; Aug. 22.
Conveying apparatus. G. C. Videtto. No. 1,426,691; Aug. 22.
Cooling apparatus. W. E. Prescott. No. 1,427,018; Aug. 22.
Coop, Chicken. N. A. Webster. No. 1,426,933; Aug. 22.
Cordage hitching device. C. W. Bauer. No. 1,426,537; Aug. 22.
Cores, Machine for building laminated armature. F. C. Nickol. No. 1,426,759; Aug. 22.
Corn binders, Loader for. N. Bieber. No. 1,426,347; Aug. 22.
Cotton extracting and cleaning machine. J. E. Mitchell. No. 1,426,588; Aug. 22.
Cotton gin. J. Wooldridge. No. 1,426,437; Aug. 22.
Counter. W. Williamson. No. 1,426,434; Aug. 22.
Coupling: *See*—
Car coupling. Chain-link coupling.
Coupling. P. Denison. No. 1,426,628; Aug. 22.
Crane. H. Parker. No. 1,426,764; Aug. 22.
Crank-shaft-adjusting means. H. L. Whitley. No. 1,427,043; Aug. 22.
Crate, Folding. R. F. Doll and J. C. Thies. No. 1,426,363; Aug. 22.
Cream separator. O. Krenke. No. 1,426,880; Aug. 22.
Crosstie. C. L. Cain. No. 1,427,002; Aug. 22.
Crosstie. R. Farnham. No. 1,426,828; Aug. 22.
Cuff fastener. O. E. Kohl. No. 1,426,571; Aug. 22.
Cuff link. O. E. Kohl. No. 1,426,572; Aug. 22.
Cultivator. M. L. Novo. No. 1,426,665; Aug. 22.
Cultivator foot. J. E. Dawson. No. 1,427,075; Aug. 22.
Cultivator, Lister motor. T. Brown. No. 1,426,544; Aug. 22.
Cup: *See*—
Drinking cup. Grease cup.
Current-collector contrivance. K. Jacquet. No. 1,426,388; Aug. 22.
Currents, Repeater for undulatory. W. Wilson. No. 1,426,801; Aug. 22.
Cuspidor for vehicles. E. Kannow. No. 1,426,876; Aug. 22.
Cutter: *See*—
Glass cutter. Rotary cutter.
Potato-vine cutter.
Cutters, Generation of convolute lines in hobbing. O. G. Simmons. No. 1,426,680; Aug. 22.
Darning machine. W. E. Sawtell. No. 1,427,022; Aug. 22.
Dashpot. H. W. Cheney. No. 1,426,460; Aug. 22.
Davenports, Attachment for. N. J. Lundeen and H. F. Russell. No. 1,426,580; Aug. 22.
Dehydrator. T. I. Casey. No. 1,426,816; Aug. 22.
Dental clasps, Tooth protector for. G. A. Wiechert. No. 1,426,935; Aug. 22.
Dipper, Cream. F. S. Driggs. No. 1,426,968; Aug. 22.
Dishwashing machines, Culinary basket for. W. R. Walker. No. 1,426,931; Aug. 22.
Disks, Machine for blanking and assembling. F. C. Nickol. No. 1,426,760; Aug. 22.
Display and delivering cabinet, Article. E. S. Wood. No. 1,426,844; Aug. 22.
Display card and the like. G. T. and R. N. Humble. No. 1,426,845; Aug. 22.
Display case, Meat-. O. J. Lasher. No. 1,426,747; Aug. 22.
Door. S. Taylor. No. 1,426,424; Aug. 22.
Door and window lock. R. F. A. Meyer. No. 1,426,896; Aug. 22.
Door opening and closing device. J. M. Nelson. No. 1,426,901; Aug. 22.
Doors, Mechanism for operating. A. R. Neale. No. 1,426,591; Aug. 22.
Dough mixing machine. D. K. Allison. No. 1,426,444; Aug. 22.
Dowel-making machine. G. W. Davis. No. 1,427,073; Aug. 22.
Draft connection. W. E. Woodard. No. 1,426,436; Aug. 22.
Draft rigging. R. W. Kadel. No. 1,426,901; Aug. 22.
Drill. A. L. Hawkesworth. No. 1,426,637; Aug. 22.
Drill bit. R. Caverly. No. 1,427,064; Aug. 22.
Drilling machinery, Rotary. G. T. Pollard. No. 1,426,670; Aug. 22.
Drills, Grinder attachment for. F. R. Lueck. No. 1,426,579; Aug. 22.
Drinking cup, Collapsible. L. Schorpp. No. 1,426,916; Aug. 22.
Drum, Brake. L. M. Stellmann. No. 1,426,684; Aug. 22.
Dyeing apparatus. J. B. Hadaway. No. 1,426,379; Aug. 22.
Duplicating, manifolding, and the like. D. Gestetner. No. 1,426,979; Aug. 22.
Eggs and process therefor, Preserved. A. K. Epstein. No. 1,426,559; Aug. 22.
Elastic wheel. L. Micha. No. 1,426,587; Aug. 22.
Electric battery or accumulator, Secondary. H. Dean. No. 1,426,966; Aug. 22.
Electric control system. H. M. Stoller. No. 1,426,791; Aug. 22.
Electric heater. E. O. Frederick. No. 1,426,562; Aug. 22.
Electric heater. H. E. Roys. No. 1,426,604; Aug. 22.
Electric-lighting fixture. L. G. Clark. No. 1,426,360; Aug. 22.
Electric-lighting mechanism. H. G. Lewis and W. S. Mayer. No. 1,426,490; Aug. 22.
Electric motor, Portable. O. P. Erhardt. No. 1,426,367; Aug. 22.
Electric switch. R. B. Benjamin. No. 1,426,811; Aug. 22.
Electrical apparatus. G. Faccioli. No. 1,426,971; Aug. 22.
Electrical apparatus. A. R. Smith. No. 1,426,921; Aug. 22.
Electrical apparatus. L. Wulff. No. 1,426,940; Aug. 22.
Electrical machines and apparatus, Mercury step switch for. K. Kaisser. No. 1,426,875; Aug. 22.
Electrical measuring instrument. C. F. Vawter. No. 1,426,619; Aug. 22.
Electrical starting and igniting apparatus. J. Bohli. No. 1,427,054; Aug. 22.
Electrical system. S. R. Bergman. No. 1,426,947; Aug. 22.
Electrical system. R. Steck. Nos. 1,426,923–5; Aug. 22.
Electron-discharge-device circuits. H. C. Egerton. No. 1,426,826; Aug. 22.
Electron-discharge devices, Circuits for. R. C. Mathes. No. 1,426,754; Aug. 22.
Elevator. S. J. Tritt. No. 1,426,524; Aug. 22.
Elevator gate, Automatic. L. E. Martin. No. 1,426,663; Aug. 22.
Engine: *See*—
Internal-combustion rotary engine.
Engine-starting system. W. A. Chryst. No. 1,427,067; Aug. 22.
Engines, Apparatus for regulating the supply of explosive mixture to gas. T. Gendarme. No. 1,426,854; Aug. 22.
Engines, Carburetor for internal-combustion. L. F. and F. G. King. No. 1,426,570; Aug. 22.
Engines, Carburetor for internal-combustion. F. F. Stratton. No. 1,426,685; Aug. 22.
Engines, Manifold heater for internal-combustion. A. G. Bridgford and S. B. Bolton. Nos. 1,427,058–9; Aug. 22.
Engines, Radiator for internal-combustion. F. Garguilo. No. 1,426,725; Aug. 22.
Engines, Timing and injecting device for internal-combustion. W. B. S. Whaley. No. 1,426,934; Aug. 22.
Envelope manufacture. J. M. Townsend. No. 1,426,523; Aug. 22.
Eye protector. C. O. Cozzens. No. 1,426,550; Aug. 22.
Fabric: *See*—
Knitted fabric.
Fastener inserting machine. A. E. Jerram, J. Gouldbourn, and F. Ricks. No. 1,426,389; Aug. 22.
Fastener-setting machine, Duplex. F. L. Harmon. No. 1,426,473; Aug. 22.
Feed, Automatic. R. S. Silvis and T. Evers. No. 1,427,027; Aug. 22.
Feed hopper for poultry. W. A. Rudolph. No. 1,427,021; Aug. 22.
Feeder, Bee. L. H. Achenbach. No. 1,426,701; Aug. 22.
Feeders, Delivery-wheel trip for. P. Gitzendanner and F. J. Albert. No. 1,426,980; Aug. 22.
Feeding mechanism, Material-. G. M. Johns. No. 1,426,648; Aug. 22.
Fencepost. J. A. Fitch and F. C. Shea. No. 1,426,469; Aug. 22.
Fencepost and wire fastener. G. E. Russell. No. 1,426,777; Aug. 22.
Fender: *See*—
Automobile fender.
Fertilizers, Machine for distributing. W. Printz. No. 1,426,671; Aug. 22.
Fiber from seeds, Mechanism for removing useful. A. A. Vardell. No. 1,426,687; Aug. 22.
Fiber of cotton, Carding or straightening the. D. E. Molloy. No. 1,427,077; Aug. 22.
Fiber-treating machines such as gins, Breast mechanism for. A. A. Vardell. No. 1,426,688; Aug. 22.
Filling device. R. B. Partridge. No. 1,427,013; Aug. 22.
Film and producing same, Advertising. T. H. Hunter. No. 1,426,567; Aug. 22.
Finger piece. J. S. Popper. No. 1,427,017; Aug. 22.
Fire alarm, Automatic. F. A. Swan. (Reissue.) No. 15,436; Aug. 22.
Fire-box structure. J. P. Neff. No. 1,426,404; Aug. 22.
Fire-extinguishing apparatus. O. R. Erwin and C. B. Flory. No. 1,426,368; Aug. 22.
Firearm attachment. D. Wetmore. No. 1,427,042; Aug. 22.
Fireplace water back. G. Gabet. No. 1,426,976; Aug. 22.
Fishing reel. G. J. Oltsch. No. 1,426,594; Aug. 22.
Flexible chain. N. C. Levy. No. 1,426,885; Aug. 22.
Flier. W. O. Aldrich. No. 1,426,443; Aug. 22.
Flow-regulating apparatus. L. De Florez. No. 1,426,718; Aug. 22.
Flowerpot. C. H. Bailey. No. 1,426,808; Aug. 22.
Fluid leakage through points and bearings, Means for controlling. L. E. Shaw. No. 1,426,416; Aug. 22.
Flushing tank. F. C. Rood. No. 1,426,509; Aug. 22.
Flying machine. T. M. Finley. No. 1,426,369; Aug. 22.
Flying machine. K. Herrmann. No. 1,426,639; Aug. 22.
Flying machines, Buoying and driving mechanism for. G. Hedén. No. 1,426,870; Aug. 22.
Flying machines, Gas control for. T. M. Finley. No. 1,426,370; Aug. 22.
Flytrap. S. Alseth. No. 1,427,050; Aug. 22.
Focusing device. C. E. Godley. No. 1,426,857; Aug. 22.
Folder and picture frame, Combination. D. S. Karr. No. 1,426,649; Aug. 22.
Food product and producing the same, Puffed. N. Minin berg. No. 1,426,756; Aug. 22.
Frame: *See*—
Hack-saw frame.
Friction cap, Double-seal. E. Scofield. No. 1,426,917; Aug. 22.
Friction facings, Making. W. C. Swift. No. 1,426,842; Aug. 22.
Fulcrum and making the same. C. E. Bauer. No. 1,426,705; Aug. 22.
Fumigating apparatus. S. Bateman. No. 1,426,536; Aug. 22.
Furnace: *See*—
Charcoal furnace. Pair furnace.
Hot-air furnace.
Furnaces, Automatic air circulator for heating. H. W. Neal. No. 1,426,900; Aug. 22.
Furnaces, Drying fuel supplied to. W. R. Wood. No. 1,427,045; Aug. 22.
Furnaces, Operating. H. E. Yarrow. No. 1,427,046; Aug. 22.
Furnaces, Rotary apparatus for removing material to be dumped from. G. Schwabach. No. 1,427,026; Aug. 22.
Furniture, Combination. R. Coopersmith. No. 1,426,468; Aug. 22.
Fuse links, Making. A. L. Eustice. No. 1,426,827; Aug. 22.
Game board. F. W. Popp and S. B. Clark. No. 1,426,399; Aug. 22.
Game, Card. J. H. Tiencken. No. 1,426,928; Aug. 22.
Garment. D. L. Fine. No. 1,426,973; Aug. 22.
Garment clasp. C. A. Squires. No. 1,426,811; Aug. 22.
Gas burner. M. Burgstaller. No. 1,426,815; Aug. 22.
Gas-making apparatus, Vertical-retort. R. M. Searle. No. 1,427,078; Aug. 22.
Gas-mixing device. E. M. White. No. 1,426,695; Aug. 22.
Gaseous mixtures, Separating the constituents of. G. Claude. No. 1,426,461; Aug. 22.
Gasoline dispensing device. E. Crouse. (Reissue.) No. 15,432; Aug. 22.
Gate: *See*—
Elevator gate.
Gate. W. V. Hart. No. 1,426,474; Aug. 22.
Gear, Change-speed. A. Zwyssig. No. 1,426,700; Aug. 22.
Gear-indexing mechanism. M. O. Cross. No. 1,426,552; Aug. 22.
Gear, Safety friction. C. A. Schlafly. No. 1,427,025; Aug. 22.
Gins, Doffing mechanism for. A. A. Vardell. No. 1,426,689; Aug. 22.
Glass, Apparatus for the production of spun. G. von Pazsiczky. No. 1,427,014; Aug. 22.
Glass cutter. A. A. Arnold. No. 1,427,052; Aug. 22.
Glove, Fielder's. W. L. Doak. No. 1,426,824; Aug. 22.
Gloves, Handkerchief retainer for. E. D. Wangelin. No. 1,426,797; Aug. 22.
Gold and apparatus therefor, Recovering. O. C. Knipe. No. 1,426,746; Aug. 22.
Grailing machine. A. S. Donaldson. No. 1,426,364; Aug. 22.
Grating. W. H. Hess. No. 1,426,736; Aug. 22.
Grave lining. A. L. Rhedans and A. M. Hitzert. No. 1,426,600; Aug. 22.
Grease cup. C. F. Vaughan. No. 1,426,929; Aug. 22.
Grip handle. J. M. Chambers. No. 1,426,357; Aug. 22.
Gun support. M. Drescher. No. 1,426,967; Aug. 22.
Guns, Breech lock for machine. A. H. G. Fokker. No. 1,426,851; Aug. 22.
Guns, Crank-operating gear for moving the breech in machine. A. H. G. Fokker. No. 1,427,079; Aug. 22.
Guns, Device for actuating control gears for machine. A. H. G. Fokker. No. 1,426,849; Aug. 22.
Guns, Safety trigger guard on machine. A. H. G. Fokker. No. 1,426,850; Aug. 22.
Gyrating machines, Supporting device for the driving shafts of. S. Snyder. No. 1,426,514; Aug. 22.
Hand, Artificial. H. G. Knobel. No. 1,426,481; Aug. 22.
Handle: *See*—
Grip handle.
Hanger: *See*—
Beam hanger. Brake-beam hanger.
Harvester, Root-crop. H. I. Pettengill. No. 1,426,767; Aug. 22.
Harvesters, Grain wheel for. F. D. Wilson. No. 1,426,937; Aug. 22.
Haystacker. J. H. Cope. No. 1,426,961; Aug. 22.
Headlight dirigible. G. W. J. Crabb. No. 1,426,963; Aug. 22.
Headlights, Focusing device for. C. E. Godley. Nos. 1,426,858–9; Aug. 22.
Heat-insulated receptacle. G. C. Anthon. No. 1,426,446; Aug. 22.
Heater: *See*—
Aero heater. Manifold heater.
Electric heater. Oil-well heater.

Heater. L. H. Solomon. No. 1,427,028; Aug. 22.
Heating system. T. A. Holmberg. No. 1,426,643; Aug. 22.
Heating unit, Electric. C. B. Rogers. No. 1,426,411; Aug. 22.
Hedge and like trimming apparatus. E. R. Janes and C. H. Adams. No. 1,426,989; Aug. 22.
Heel-breasting machine. D. W. Bunker. No. 1,426,354; Aug. 22.
Hoisting device. M. D. Potter. No. 1,426,503; Aug. 22.
Holding and lifting by means of suckers, Apparatus for. F. B. Waldron. No. 1,426,692; Aug. 22.
Hoop guide. J. Cole. No. 1,427,070; Aug. 22.
Horseshoe. J. Cisek. No. 1,426,958; Aug. 22.
Hose supporter. M. Hawle. Nos. 1,426,635–6; Aug. 22.
Hot-air furnace, Tubular. R. Hitchen. No. 1,426,642; Aug. 22.
Hub for vehicle wheels, Pneumatic. B. v. Loutzkoy. Nos. 1,426,887–8; Aug. 22.
Hydrocarbons, Production of low-boiling-point. J. C. Black. No. 1,426,813; Aug. 22.
Hydrogen production. G. Claude. No. 1,426,462; Aug. 22.
Hydrogenating catalyzer. G. Teichner. No. 1,427,037; Aug. 22.
Hydrogenation and the preparation thereof, Catalyzer for. C. Ellis. No. 1,426,629; Aug. 22.
Hyperdermic needles while sharpening the same, Device for holding. D. Crowther. No. 1,426,965; Aug. 22.
Ice-making apparatus. M. B. Hill. No. 1,426,640; Aug. 22.
Ice-shaving machine. H. M. Jerome. No. 1,426,742; Aug. 22.
Ignition system. J. H. Hunt. No. 1,426,873; Aug. 22.
Inclinometer. H. C. Hornbeck. No. 1,426,645; Aug. 22.
Inner tube. J. H. Talor. No. 1,427,036; Aug. 22.
Insulator. W. T. Goddard. No. 1,426,981; Aug. 22.
Insulator. L. Steinberger. No. 1,426,516; Aug. 22.
Insulator. L. Steinberger. No. 1,426,789; Aug. 22.
Insulator, Condenser cemented sectional. S. S. Sonneborn. No. 1,426,421; Aug. 22.
Insulator strain member. L. Steinberger. No. 1,426,788; Aug. 22.
Interest computer. O. Krems. No. 1,426,484; Aug. 22.
Internal-combustion rotary engine. E. E. Bidwell. No. 1,427,053; Aug. 22.
Iodine to diseased and injured portions of the body, Applying. H. C. Harding. No. 1,426,633; Aug. 22.
Jar-closure device. H. Rubinson. No. 1,426,605; Aug. 22.
Joint: *See*—
Rail joint.
Joist-boring machine, Collapsible. R. H. Henderson. No. 1,426,476; Aug. 22.
Key pouch. M. Schweinshaut. No. 1,426,782; Aug. 22.
Key ring. L. E. Polhemus. No. 1,427,016; Aug. 22.
Kiln. R. T. Kyle. No. 1,426,655; Aug. 22.
Knitted fabric. V. Lombardi. No. 1,426,576; Aug. 22.
Lamp, Daylight. N. Lang. No. 1,426,395; Aug. 22.
Lamp dimmer, Vehicle. G. S. Ressler. No. 1,426,774; Aug. 22.
Lamp, Portable electric. C. H. Bissell. No. 1,426,707; Aug. 22.
Lamp sockets, Shade holder for threaded electric-. G. A. Boomer. No. 1,426,951; Aug. 22.
Last, Self-locking. R. C. Webster. No. 1,426,428; Aug. 22.
Latch, Door. O. A. Anderson. No. 1,426,445; Aug. 22.
Lathe. W. Buttrum. No. 1,426,546; Aug. 22.
Lathe attachment. J. V. Dilley. No. 1,427,076; Aug. 22.
Lathes, Slide rest of. A. Drummond. No. 1,426,365; Aug. 22.
Leading-in conductor. J. W. Radu. No. 1,426,771; Aug. 22.
Legging. R. W. Nutt. No. 1,426,593; Aug. 22.
Lens, Ophthalmic. C. Sheard and E. D. Tillyer. No. 1,426,513; Aug. 22.
Lenses, Indicia plate for. V. A. Quagliano. No. 1,426,770; Aug. 22.
Level. G. Bredeson. No. 1,426,454; Aug. 22.
Lifter: *See*—
Pastry lifter.
Light control. R. W. Ebeling and H. J. Fanger. No. 1,426,557; Aug. 22.
Liquid-dispensing container. R. J. E. Craig. No. 1,426,846; Aug. 22.
Liquid-fuel burner. G. H. Leifheit. No. 1,426,833; Aug. 22.
Liquid separator, Centrifugal. T. Collins. No. 1,426,959; Aug. 22.
Liquors, Selective removal of organic material from. C. L. Peck. No. 1,426,596; Aug. 22.
Load-engaging means, Pneumatic. F. B. Waldron. No. 1,426,930; Aug. 22.
Loading machine. R. K. Giffen. No. 1,426,855; Aug. 22.
Lock: *See*—
Automobile lock.
Combination-operated lock.
Door and window lock.
Nut lock.
Lock. A. A. Alexander and B. Morgenthau. No. 1,426,805; Aug. 22.
Lock. P. F. Augenbraun. No. 1,426,702; Aug. 22.
Lock and key. J. W. Kovach and T. Markovich. No. 1,426,573; Aug. 22.
Locking mechanism. T. Lund. No. 1,426,398; Aug. 22.
Locomotive tenders, Feeding device for. L. Richardson. No. 1,426,675; Aug. 22.
Locomotives, Draft controller for. H. M. Rice. No. 1,426,840; Aug. 22.
Log-turning mechanism. M. R. Rawson. No. 1,426,409; Aug. 22.
Loom, Circular. J. Hirst. No. 1,426,641; Aug. 22.
Loom, Weaving. A. David. No. 1,426,717; Aug. 22.
Looms. J. C. Brooks. No. 1,426,351; Aug. 22.
Lubricating device. L. H. Shover. No. 1,426,918; Aug. 22.
Lubricator: *See*—
Vehicle-spring lubricator.
Luggage carrier, Collapsible. C. H. Hapf, jr. No. 1,426,644; Aug. 22.
Manicure implement. N. Wiesenberg. No. 1,426,696; Aug. 22.
Manifold heater. H. Nichols. No. 1,426,592; Aug. 22.
Matrices and for producing color screens therefrom, Method and apparatus for producing. I. Kitsée. No. 1,426,996; Aug. 22.
Measuring and gasifying liquids, Apparatus for. M. J. Brown. No. 1,426,831; Aug. 22.
Measuring apparatus, Surface-. H. Thun. No. 1,426,426; Aug. 22.
Measuring device. A. Haddock. No. 1,426,861; Aug. 22.
Metal wheel. M. Lachman. No. 1,426,881; Aug. 22.
Metallic container. S. Berlotti. No. 1,426,345; Aug. 22.
Metals from silicates, Recovery of. F. M. McClenahan. Nos. 1,426,890–1; Aug. 22.
Methyl sulphites of secondary aromatic aliphatic amines and making same. M. Bockmühl and K. Windisch. No. 1,426,348; Aug. 22.
Milk-cooling apparatus. H. M. Sprecher. No. 1,426,515; Aug. 22.
Mill: *See*—
Cement mill.
Mixing machines, Driving mechanism for. C. C. Guldbech. No. 1,426,984; Aug. 22.
Moistening machine, Envelope-. W. F. Schweiger and W. J. Balkwill. No. 1,426,781; Aug. 22.
Mold: *See*—
Concrete mold.
Sectional mold.
Molders, Removable cutter head for motor-driven. G. H. Matthews. No. 1,426,492; Aug. 22.
Money-delivering apparatus. J. F. Southgate and W. Carey. No. 1,427,029; Aug. 22.
Mop and wringing attachment therefor. R. Zieschang. No. 1,426,440; Aug. 22.
Mop wringer. R. Brownson. No. 1,426,456; Aug. 22.
Motor: *See*—
Electric motor.
Water motor.
Motor control. J. D. Wright. No. 1,426,939; Aug. 22.
Mowing machine, Sidehill-. C. A. Crossler. No. 1,426,464; Aug. 22.
Muffler. A. P. Brush. No. 1,426,352; Aug. 22.
Music roll, purse, and carrying bag. J. P. La Roche. No. 1,426,485; Aug. 22.
Notebook cover. E. H. Long. No. 1,426,657; Aug. 22.
Nozzle, Traveling-screen. M. Swintek. No. 1,426,616; Aug. 22.
Nut lock. H. J. Zottel. No. 1,426,530; Aug. 22.
Oil, Apparatus for treating. H. F. Neumeyer. No. 1,426,836; Aug. 22.
Oil burner. L. Conow. No. 1,426,361; Aug. 22.
Oil can, Pump. M. Mayer. No. 1,426,586; Aug. 22.
Oil, gas, and water separator. L. L. Carter. No. 1,426,955; Aug. 22.
Oil tanks, Deck for. H. R. Leland and W. Schwemlein. Nos. 1,426,997–8; Aug. 22.
Oil tanks, Floating deck for. H. R. Leland and W. Schwemlein. No. 1,426,999; Aug. 22.
Oil-well heater. H. Pennington. No. 1,426,407; Aug. 22.
Oiler, Harness. R. E. Ogden. No. 1,426,903; Aug. 22.
Oils and fats, Method of and apparatus for crystallizing. H. H. Doering. No. 1,426,555; Aug. 22.
Ores containing zinc, cadmium, and copper, Electrolytic treatment of. D. Avery, R. H. Stevens, and R. T. D. Williams. No. 1,426,703; Aug. 22.
Overalls, Union. I. Bernstein. No. 1,426,540; Aug. 22.
Oxides, Obtaining volatilizable metal. F. D. S. Robertson. No. 1,426,602; Aug. 22.
Oxides of nitrogen from ammonia by catalytic oxidation, Production of. C. Bosch. No. 1,426,952; Aug. 22.
Packages, Apparatus for producing sealed wrapped. W. A. Weightman and C. H. Nitsch. No. 1,426,429; Aug. 22.
Packing engine. J. A. Cann and J. Burrows. No. 1,426,459; Aug. 22.
Packing, Metallic. A. D. Morris. No. 1,426,493; Aug. 22.
Packing, Piston. F. E. Small. No. 1,426,783; Aug. 22.
Padlock, Combination. F. Gambino. No. 1,426,978; Aug. 22.
Pail and stool, Combined milk. G. L. Rollins. No. 1,426,508; Aug. 22.
Painting machine. J. Hasselberger. No. 1,426,986; Aug. 22.
Pair furnace. J. Milholland. No. 1,427,009; Aug. 22.
Panel. L. H. Garlinghouse. No. 1,426,374; Aug. 22.
Paper box. S. Bergstein. No. 1,426,948; Aug. 22.
Paper cutters, Beveling machine for. W. M. Floto. No. 1,426,974; Aug. 22.
Paper cutting and pasting device, Wall-. C. Panzeri. No. 1,426,667; Aug. 22.
Paper, Device for rolling up. F. Schade. No. 1,426,779; Aug. 22.
Paper feed for headrests. A. T. Pattimore. No. 1,426,837; Aug. 22.

Paper mills, Acid line for. J. J. Case. No. 1,426,956; Aug. 22.
Paramagnetic material, Method of and means for detecting defects in. W. E. Hoke. No. 1,426,384; Aug. 22.
Partition structure. G. E. McNeal. No. 1,426,584; Aug. 22.
Pastry lifter. W. G. Wilson. No. 1,427,044; Aug. 22.
Peanut-blanching roller and method. A. Lewinski. No. 1,427,000; Aug. 22.
Peat, lignite, and other carbonaceous substances into artificial coal, Process and apparatus for the conversion of. O. A. Ford. No. 1,426,723; Aug. 22.
Pencil. C. R. Keeran and F. R. Taylor. No. 1,426,744; Aug. 22.
Pencil, Lead. D. Zakim. No. 1,426,438; Aug. 22.
Pharmaceutical product. H. Weyland, H. Hahl, and R. Berendes. No. 1,426,430; Aug. 22.
Phonograph attachment. W. H. Weaser. No. 1,426,693; Aug. 22.
Phonograph cabinet. E. E. Hutshing. No. 1,426,568; Aug. 22.
Photography, Producing multicolored screens for. I. Kitsée. No. 1,426,995; Aug. 22.
Pick handles, Reenforcement for. G. G. Dupler. No. 1,426,366; Aug. 22.
Picture apparatus, Motion-. H. R. Evans. No. 1,426,722; Aug. 22.
Picture-exhibiting machine, Moving-. G. W. Bennett. No. 1,426,344; Aug. 22.
Picture machines, Shutter for motion-. A. M. Patureau. No. 1,426,595; Aug. 22.
Pipe: *See*—
Tobacco pipe.
Pipe-stamping machine. R. R. Solmson. No. 1,426,784; Aug. 22.
Pipe vise stand. J. E. Albinson. No. 1,426,531; Aug. 22.
Pipe wrench. J. W. D. Cook. No. 1,426,362; Aug. 22.
Pipes, Collar or the like for joining hard-metal. F. L. Fyffe. No. 1,426,724; Aug. 22.
Piston. W. H. Sackman. No. 1,426,913; Aug. 22.
Piston ring. S. W. Morrow and J. Schlutter. No. 1,426,403; Aug. 22.
Piston-ring, Oilproof. P. Weidenfeller. No. 1,426,694; Aug. 22.
Piston ring, Two-part. J. R. Petrie. No. 1,426,766; Aug. 22.
Piston rings, Apparatus for testing. J. E. Butler. No. 1,426,711; Aug. 22.
Planer, Hand. J. F. Hoy and J. C. Whitesell, jr. No. 1,426,739; Aug. 22.
Plating. G. H. Pinney. No. 1,426,769; Aug. 22.
Pliers. A. Cruickshank. No. 1,426,553; Aug. 22.
Plow hitch. G. O. Hodge. No. 1,426,383; Aug. 22.
Pneumatic cap. C. Moore. No. 1,426,402; Aug. 22.
Pocket. I. Bernstein. No. 1,426,539; Aug. 22.
Potato-vine cutter, Sweet-. A. B. Purdon. No. 1,426,906; Aug. 22.
Power-transmitting mechanism. J. J. Tokheim. No. 1,426,843; Aug. 22.
Press: *See*—
Baling press.
Printing press.
Press. O. Schlaupitz. No. 1,426,607; Aug. 22.
Pressure, Method and apparatus for recording. W. F. Hendry and C. E. Reddig. No. 1,426,735; Aug. 22.
Printing device. M. Bonsiakos. No. 1,426,708; Aug. 22.
Printing press, Multicolor-. B. C. White. No. 1,426,431; Aug. 22.
Printing presses, Vacuum means for holding type and music sheets upon. G. Fussell. No. 1,426,471; Aug. 22.
Printing surface. J. A. Corey. No. 1,426,549; Aug. 22.
Projectile. G. Ramsey. No. 1,426,907; Aug. 22.
Puller and press, Combined. H. R. Mohrman. No. 1,426,835; Aug. 22.
Pulling device. C. D. Krell. No. 1,426,483; Aug. 22.
Pulling-over machine. A. E. Jerram, J. Gouldbourn, and F. Ricks. No. 1,426,390; Aug. 22.
Pump. H. A. Handy. No. 1,426,864; Aug. 22.
Pump for rarefying and compressing fluids, Pneumatic rotary. A. Cacciari. No. 1,426,356; Aug. 22.
Pump, Rotary. M. Crawford. No. 1,426,820; Aug. 22.
Pumping mechanism, Air-lift. H. B. Halvorsen. No. 1,426,863; Aug. 22.
Pumping system, Fluid-operated. H. B. Halvorsen. No. 1,426,862; Aug. 22.
Radiographic plate changer. A. Mutscheller and K. Stoye. No. 1,426,899; Aug. 22.
Radiosignaling system. E. F. W. Alexanderson. No. 1,426,944; Aug. 22.
Rail bonds, Manufacturing. H. V. Linderman. No. 1,426,397; Aug. 22.
Rail-bond tester. C. E. Vawter. No. 1,426,620; Aug. 22.
Rail braces, Adjustable backing for. F. Rapp. No. 1,426,772; Aug. 22.
Rail joint. J. A. Twedt. No. 1,426,618; Aug. 22.
Railway-crossing-gate signal. R. E. Pierce. No. 1,426,839; Aug. 22.
Railways, Driving mechanism for rope and chain. C. Baun. No. 1,426,451; Aug. 22.
Railway-locomotive wheels, Hub liner for. H. Cramer. No. 1,426,715; Aug. 22.
Railway safety appliance. W. T. Spillane. No. 1,426,922; Aug. 22.
Railway signal and stop, Automatic. G. Ridley. No. 1,426,410; Aug. 22.
Railway spike. H. Blair. No. 1,426,453; Aug. 22.
Railway-switch guard. M. J. McNamara. No. 1,426,583; Aug. 22.
Railway tie. R. R. Hyde and J. C. Hook. No. 1,426,479; Aug. 22.
Razor strop. E. Schumann. No. 1,426,414; Aug. 22.
Receptacle, Moistureproof. W. E. Riecken. No. 1,426,776; Aug. 22.
Receptacles, Cap for gasoline or similar. F. Parizek. No. 1,426,501; Aug. 22.
Recuperator. H. Hecker. No. 1,426,381; Aug. 22.
Reel: *See*—
Fishing reel.
Reel. R. D. Peters. No. 1,426,597; Aug. 22.
Refrigerating apparatus, Attachment to. J. West and E. C. Campbell. No. 1,427,041; Aug. 22.
Regulator: *See*—
Thermionic regulator.
Repeater system. W. E. Beatty. No. 1,426,810; Aug. 22.
Resistance, Variable. E. G. Danielson. No. 1,426,465; Aug. 22.
Reversing mechanism. R. F. Lanham and A. V. Shull. No. 1,426,575; Aug. 22.
Revolving screen. W. H. Stepp. No. 1,427,031; Aug. 22.
Rim, Demountable. A. H. Madara. No. 1,427,006; Aug. 22.
Rim-expanding tool. R. J. Loomis. No. 1,426,577; Aug. 22.
Ring: *See*—
Key ring.
Piston ring.
Road drag or scraper. J. Kalivoda. No. 1,426,992; Aug. 22.
Road marker. L. H. Smith. No. 1,426,420; Aug. 22.
Rolling mills, Roll for. F. M. Canda. No. 1,427,063; Aug. 22.
Roof, Metallic. W. F. Edwards. No. 1,426,558; Aug. 22.
Roof structure. C. I. Walker. No. 1,426,832; Aug. 22.
Rope or strap fastener. E. D. Barton. No. 1,426,535; Aug. 22.
Ropes, cables, and the like, Automatic coupling for. D. Garigllo. No. 1,426,563; Aug. 22.
Rotary bit, Curved wing. G. E. Putnam. No. 1,427,019; Aug. 22.
Rotary cutter, Self-propelling. S. C. Sladden. No. 1,426,919; Aug. 22.
Rotor, Separating. L. S. Longenecker. No. 1,427,001; Aug. 22.
Rubber solvents, Device for recovering. A. Boecler. No. 1,426,949; Aug. 22.
Rule attachment. R. Trane. No. 1,427,039; Aug. 22.
Sand into molds, Method of and apparatus for ramming. W. S. Sutton. No. 1,426,615; Aug. 22.
Saw, Adjustable twin. C. Rudich. No. 1,426,676; Aug. 22.
Saw frame, Hack-. T. Claffey. No. 1,427,068; Aug. 22.
Saw guard. J. D. McMichael. No. 1,427,005; Aug. 22.
Saws, Attachment for band. G. H. Wallace. No. 1,426,932; Aug. 22.
Scale, Computing. A. H. Hiratzman. No. 1,426,477; Aug. 22.
Screen: *See*—
Revolving screen.
Sealing machine, Envelope-. A. J. Kelser. No. 1,426,745; Aug. 22.
Seam. F. H. McCoy. No. 1,426,892; Aug. 22.
Sectional mold. J. Schiffhauer. No. 1,426,512; Aug. 22.
Securing device. E. C. Anderson. No. 1,426,945; Aug. 22.
Seeds, Apparatus for separating. C. J. Chindbloom. No. 1,426,957; Aug. 22.
Separator: *See*—
Cream separator.
Liquid separator.
Sewing machine. W. E. Turner. No. 1,426,617; Aug. 22.
Sewing machine, Glove and fur. A. Grieb. No. 1,426,472; Aug. 22.
Sewing machines, Trimming device for. A. H. De Voe. No. 1,426,466; Aug. 22.
Shackle, Spring. L. H. Parcher. No. 1,426,406; Aug. 22.
Sharpener, Lawn-mower. T. J. Connolly. No. 1,426,548; Aug. 22.
Sharpening device. E. E. Rogers. No. 1,426,911; Aug. 22.
Sheet-feeding mechanism. A. Olson. No. 1,426,904; Aug. 22.
Shield. E. O. Frederics. No. 1,426,373; Aug. 22.
Shingles Making strip. O. K. Outman. No. 1,426,497; Aug. 22.
Ship for submarine navigation. W. M. Le Moyne. No. 1,426,882; Aug. 22.
Shoe and shoe-shank stiffener. F. E. Toothaker. No. 1,426,427; Aug. 22.
Shoe-heating machine. C. D. Foye. No. 1,426,372; Aug. 22.
Shoe last, Expansible. C. Schevitz. No. 1,427,024; Aug. 22.
Shoes, Apparatus for attaching uppers to soles in the manufacture of. A. Bates. No. 1,426,343; Aug. 22.
Shoes, Stiffening material for. G. W. Bernauer. No. 1,426,538; Aug. 22.
Shore, Adjustable. W. L. Church. No. 1,426,359; Aug. 22.
Shovel attachment. J. F. Adam. No. 1,426,442; Aug. 22.
Shuttle box operating mechanism. E. W. Keough. No. 1,426,392; Aug. 22.
Sign. V. Guardino. No. 1,426,983; Aug. 22.
Sign and the like. C. W. Hawthorne. No. 1,426,475; Aug. 22.

Signs, Apparatus for manufacturing painted. W. J. Fraser. No. 1,426,830; Aug. 22.
Signal: *See*—
Automobile signal.
Railway-crossing gate signal.
Totalizer clear signal.
Traffic signal.
Vehicle signal.
Silk, Manufacture of artificial. E. Bronnert. No. 1,426,953; Aug. 22.
Siren or foghorn. O. H. Svensson. No. 1,427,034; Aug. 22.
Sledding, Sprag for. F. Pardee, jr., and M. R. van W. Lyon. No. 1,426,668; Aug. 22.
Smelting and electrolyzing process. R. Rodrian. No. 1,426,507; Aug. 22.
Socket wrench. O. C. Snell. No. 1,426,682; Aug. 22.
Sole-fitting machine. A. E. Johnson. No. 1,426,391; Aug. 22.
Sound box. H. J. Durborow. No. 1,426,970; Aug. 22.
Sound-producing device, Electromagnetic. F. J. and W. L. Kaehni. No. 1,426,743; Aug. 22.
Spear, Casing. C. S. Straight. No. 1,427,033; Aug. 22.
Speed-changing device. R. Stresau. No. 1,426,926; Aug. 22.
Speed transmission device, Variable-. A. Chapuy and L. F. Meunier. No. 1,426,358; Aug. 22.
Spoke for vehicle wheels, Tubular sheet-metal. T. N. Aikens. No. 1,426,942; Aug. 22.
Spreader. H. T. Swasey. No. 1,426,423; Aug. 22.
Spring plates, Shearing dies for. J. A. Fray. No. 1,426,470; Aug. 22.
Spring shield and oiling device. G. Stocker. No. 1,426,613; Aug. 22.
Spring wheel. J. Jeidel. No. 1,426,741; Aug. 22.
Stamp-affixing machine. W. F. Schweiger. No. 1,426,780; Aug. 22.
Stand: *See*—
Pipe vise stand.
Steel, Recovering manganese. W. G. Nichols. (Reissue.) No. 15,435; Aug. 22.
Steel sheets, Hot-rolling extremely thin. W. E. Hanna. No. 1,426,730; Aug. 22.
Steeplechase device. L. O'Neill, sr., and L. O'Neill, jr. No. 1,427,010; Aug. 22.
Steering-post transmission mechanism. E. Schmaller. No. 1,426,914; Aug. 22.
Steering-post transmission mechanism. E. Schmaller. No. 1,426,915; Aug. 22.
Steering system, Hydraulic. G. Darroch. No. 1,426,822; Aug. 22.
Steering wheel, Divisible locking. P. W. Reck. No. 1,426,773; Aug. 22.
Stilt. J. J. Stephens and C. B. Harris. No. 1,427,030; Aug. 22.
Stitching device. W. B. Harsel. No. 1,426,867; Aug. 22.
Storage battery. J. B. Speed and F. Hutchinson, jr. No. 1,426,786; Aug. 22.
Stove. C. F. Wiley. No. 1,426,433; Aug. 22.
Stove and furnace. E. Waldmann and S. Hokky. No. 1,426,674; Aug. 22.
Stove board. J. Scheffer. No. 1,427,023; Aug. 22.
Stove, Gas. A. E. Cobb. No. 1,427,069; Aug. 22.
Stove with kitchen cabinet, Safety gas. H. Chilingirian. No. 1,426,547; Aug. 22.
Straw conveyer, Adjustable. C. R. Raney and R. B. Hitchcock. No. 1,426,908; Aug. 22
Street-cleaning equipment. H. Pezzetti. No. 1,426,408; Aug. 22.
Stringed instrument. E. E. Frozeth. No. 1,426,852; Aug. 22
Surgical appliance. G. O. Hulick. No. 1,426,740; Aug. 22.
Swing and couch, Convertible porch. C. A. Nelswender. No. 1,426,405; Aug. 22.
Switch: *See*—
Electric switch.
Thermostatic switch.
Switch-throwing mechanism, Foot-operated. J. W. Bliznik. No. 1,426,542; Aug. 22.
Swivel and bull hook, Combination. L. K. Syrstad. No. 1,426,520; Aug. 22.
Table: *See*—
Chiropractic table.
Treatment table.
Table-leg fastener. C. R. Dodsworth. No. 1,426,848; Aug. 22.
Tag. S. R. Geist. No. 1,426,853; Aug. 22.
Tank: *See*—
Flushing tank.
Tape, Gummed. A. P. Ingram. No. 1,426,569; Aug. 22.
Telegraph, Printing. A. H. Adams. No. 1,426,803; Aug. 22.
Telegraph receiver, Printing-. H. Pfannenstiehl and E. P. Bancroft. No. 1,426,768; Aug. 22.
Telegraph system. G. C. Cummings. No. 1,426,821; Aug. 22.
Telephone directory. C. R. Hilberry. No. 1,426,566; Aug. 22.
Telephone-exchange system. E. H. Clark. No. 1,426,817; Aug. 22.
Telephone-exchange system. H. P. Clausen and C. L. Goodrum. No. 1,426,818; Aug. 22.
Telephone receivers, Cushion for. O. W. Aagnard. No. 1,426,840; Aug. 22.
Textile machinery, Cloth clamp for. H. O. Wiegand. No. 1,426,432; Aug. 22.
Thermionic regulator. P. K. McGall and H. R. Menefee. No. 1,426,751; Aug. 22.
Thermostatic switch. P. F. Apfel. No. 1,426,447; Aug. 22.
Thrasher. F. Owen. No. 1,426,498; Aug. 22.
Thread-cutting tool. J. H. Zoerman. No. 1,426,441; Aug. 22.
Tie: *See*—
Railway tie.
Tie and fastener, Combined. A. Lerner. No. 1,426,883; Aug. 22.
Tin deposits, Producing dense and firmly-adhering. M. Schlötter. No. 1,426,678; Aug. 22.
Tin, Recovering. H. H. Alexander. No. 1,426,341; Aug. 22.
Tire. M. O'Bannon. No. 1,426,763; Aug. 22.
Tire carrier and casing, Combined. J. R. Brownell. No. 1,426,455; Aug. 22.
Tire-chain fastener. B. Sandberg. No. 1,426,510; Aug. 22.
Tire core, Collapsible. A. H. Harris. No. 1,426,865; Aug. 22.
Tire covers, stair treads, or the like, Construction of wear-resisting and nonslipping surfaces, such as. W. P. Whitehouse. No. 1,426,800; Aug. 22.
Tire repair. E. M. Moore and O. V. Peet. No. 1,426,897; Aug. 22
Tire, Steel. A. P. Mallon. No. 1,426,585; Aug. 22.
Tire valve. E. Erik. No. 1,426,721; Aug. 22.
Tires and making them, Retread for. D. R. Radford. No. 1,426,672; Aug. 22.
Tires, Buffer for. M. A. Replogle. No. 1,426,910; Aug. 22.
Tires, Clamp for protecting. C. W. G. Allender. No. 1,426,532; Aug. 22.
Tires, Making vehicle. J. A. Swinehart. No. 1,426,927; Aug. 22.
Tires, Valve for pneumatic. A. E. Bronson. No. 1,426,350; Aug. 22.
Tissues, Machine for rubbing. M. Vernay. No. 1,426,690; Aug. 22.
Tobacco pipe. C. Laban. No. 1,426,656; Aug. 22.
Toilet article, Combination. A. Weiner. No. 1,427,040; Aug. 22.
Tooth, Artificial. V. Mallon. No. 1,426,661; Aug. 22.
Totalizer clear signal. H. Golber and A. F. Poole. No. 1,426,377; Aug. 22.
Totalizer clear signal. A. F. Poole. No. 1,426,502; Aug. 22.
Towel holder. W. Norman. No. 1,426,495; Aug. 22.
Toy. P. Gentile and A. Del Gindice. No. 1,426,375; Aug. 22.
Toy. G. W. Hughey. No. 1,426,646; Aug. 22.
Toy. J. P. Koller. No. 1,426,482; Aug. 22.
Toy building construction. A. C. Gilbert. No. 1,426,376; Aug. 22.
Toy telephone. J. Rentscher. No. 1,426,504; Aug. 22.
Track-sanding device. T. J. Burrell. No. 1,426,627. Aug. 22.
Tractor. P. R. Zieche. No. 1,426,699; Aug. 22.
Tractor hitch. M. O. Chaffee. No. 1,427,066; Aug. 22.
Tractor platform. J. W. Wright. No. 1,426,938; Aug. 22.
Tractor rim for hard surfaces, Demountable. M. Sanderfield. No. 1,426,511; Aug. 22.
Tractors, Self steering attachment for. L. J. Matheson. No. 1,426,491; Aug. 22.
Tractors, Steering device for. E. C. Dunlap. No. 1,426,556; Aug. 22.
Traffic signal. E. Letourneau. No. 1,426,489; Aug. 22.
Transmission mechanism. C. Sang. No. 1,426,677; Aug. 22.
Transmitters or receivers, Method of and system for testing. H. D. Arnold and J. P. Minton. No. 1,426,807; Aug. 22.
Treatment table. J. V. McManis. No. 1,427,004; Aug. 22.
Tremolo. O. O. Lewis. No. 1,426,749; Aug. 22.
Trousers stretcher. J. Hren. No. 1,426,871; Aug. 22.
Trunk attachment, Wardrobe-. W. R. Dickson. No. 1,426,823; Aug. 22.
Tube: *See*—
Inner tube.
Tubular bodies of corrugated pasteboard, Manufacturing. B. Kreher. No. 1,426,879; Aug. 22.
Turntable, Center drain. H. M. Norris. No. 1,426,496; Aug. 22.
Turret-tool holder, Multiple-. W. A. Salter. No. 1,426,778; Aug. 22.
Tying tool. H. H. Burson. No. 1,426,545; Aug. 22.
Typewriter. A. H. Adams. No. 1,426,804; Aug. 22.
Typewriters, Sliding support for. J. A. Nott. No. 1,426,762; Aug. 22.
Unloading apparatus. C. H. Beattie. No. 1,426,706; Aug. 22.
Upholstery and the product produced thereby, Forming imitation-leather. R. Dwight. No. 1,426,720; Aug. 22.
Upper-shaping machine. A. Bates. No. 1,426,342; Aug. 22.
Vacuum cleaner, Suit. F. M. Pesarillo. No. 1,426,765; Aug. 22.
Vacuum-tube circuits and operating them. R. C. Mathes and H. S. Read. No. 1,426,755; Aug. 22.
Valve. J. B. Fisher. No. 1,426,560; Aug. 22.
Valve. A. G. Marranville. No. 1,426,894; Aug. 22.
Valve, Flush. H. W. Schwab. No. 1,426,841; Aug. 22.
Valve, Fuel-tank control. W. C. Replogle. No. 1,426,505; Aug. 22.

Valve mechanism, Engine. P. Lassen. No. 1,426,486; Aug. 22.
Valve remover. E. L. Weil. No. 1,426,799; Aug. 22.
Valve, Replacement. C. J. Müller. No. 1,426,401; Aug. 22.
Valve seal. W. G. Sanderson. No. 1,426,412; Aug. 22.
Vat preparations and making same, Stable, dry, and readily-soluble. K. Thiess, F. Maenchen, A. Steindorff, and F. Gilloy. No. 1,426,522; Aug. 22.
Vaults, Auxiliary locking means for. C. W. Babcock. No. 1,426,946; Aug. 22.
Vehicle. W. E. Doyal and R. Hagopian. No. 1,426,719; Aug. 22.
Vehicle driving means, Motor-. C. J. Noel and K. K. Hicks. No. 1,426,902; Aug. 22.
Vehicle jack. A. Merchant, jr. No. 1,426,664; Aug. 22.
Vehicle signal, Motor-. A. L. Austin. No. 1,426,448; Aug. 22.
Vehicle spring lubricator. A. J. Compton. No. 1,427,071; Aug. 22.
Vehicle suspension. W. R. Williams. No. 1,426,529; Aug. 22.
Vehicle suspension. W. R. Williams. No. 1,427,081; Aug. 22.
Vehicle wheel, Resilient. J. McLaughlin. No. 1,426,582; Aug. 22.
Vehicles and other bodies in motion, Elastic suspension for. F. L. Broussouse and P. J. Leboucher. No. 1,427,060; Aug. 22.
Visibility of objects, Diminishing the. T. F. Tesse. No. 1,426,521; Aug. 22.
Vulcanizer, Electric. E. J. Rohne. No. 1,426,603; Aug. 22.
Wall fixture. C. M. Langhorne. No. 1,426,574; Aug. 22.
Wall structures, Means for covering wooden. F. Hummert. No. 1,426,872; Aug. 22.
Washboard. W. E. Abbott. No. 1,427,048; Aug. 22.
Washing appliance. O. N. Sandholm. No. 1,426,606; Aug. 22.
Washing machine. F. D. Brown. No. 1,427,061; Aug. 22.
Washstand, Sanitary. D. A. Leinsetter. No. 1,426,488; Aug. 22.
Watch and jewelry cleaner. B. McCarty. No. 1,426,400; Aug. 22.
Watches, Hook for convertible. J. Davlng. No. 1,426,554; Aug. 22.
Water-closet bowls, Fixture for. L. W. Bollow. No. 1,426,950; Aug. 22.
Water motor. W. Peterson. No. 1,426,838; Aug. 22.
Water, Softening. G. G. Hepburn. No. 1,426,638; Aug. 22.
Wear plate. J. F. Waldelich and T. F. Whelan. No. 1,426,795; Aug. 22.
Weather stop, Automatically-operating. J. J. Hines and H. R. Way. No. 1,426,737; Aug. 22.
Weighing scales, V bearing for. B. W. King. No. 1,426,393; Aug. 22.
Weighing machines, Weighing tank for automatic. B. Boulogne. No. 1,426,709; Aug. 22.
Weight-motor device. S. Picciotto. No. 1,426,598; Aug. 22.
Well-drilling devices, Blade for. P. W. Smith and J. J. Bookhout. No. 1,426,681; Aug. 22.
Wheel: *See*—
Elastic wheel.
Metal wheel.
Spring wheel.
Steering wheel.
Vehicle wheel.
Wire-spoke wheel.
Wheel and driving mechanism, Oscillating. E. J. Gould. No. 1,426,860; Aug. 22.
Wheel-locking device. H. A. Baker. No. 1,426,534; Aug. 22.
Wheel mounting for light motor vehicles. L. E. Shaw. No. 1,426,417; Aug. 22.
Wheels, Bolt for demountable. I. C. Woodward. No. 1,426,802; Aug. 22.
Wheels, Pattern for cast-steel. G. Walther. No. 1,426,621; Aug. 22.
Wheels to the vertices of a rhombus, Connection of motor-vehicle. O. Fuscaldo. No. 1,426,975; Aug. 22.
Winding machines, Traverse motion for. G. M. Taylor. No. 1,427,035; Aug. 22.
Windshield attachment. G. Glaudel. (Reissue.) No. 15,433; Aug. 22.
Windshield attachment. J. H. Vineberg, J. Halliday, and J. Presner. No. 1,426,793; Aug. 22.
Window adjuster, Casement-. J. H. Shaw. No. 1,426,415; Aug. 22.
Window frame and sash. H. E. Campbell. No. 1,426,458; Aug. 22.
Window-screen construction. W. H. J. Fitzgerald. No. 1,426,561; Aug. 22.
Wire-bending machine. O. Stenson. No. 1,426,790; Aug. 22.
Wire-fence clamp. L. E. Weller. No. 1,426,527; Aug. 22.
Wire, Machine for forming. N. B. Thibert. No. 1,426,425; Aug. 22.
Wire-spoke wheel. O. H. Jobski. No. 1,426,480; Aug. 22.
Wood products, Method and apparatus for obtaining. E. Bertheion. No. 1,426,346; Aug. 22.
Woodworking machines, Guard for. C. Young. No. 1,426,625; Aug. 22.
Workbench. J. F. Magalski. No. 1,426,660; Aug. 22.
Wrench: *See*—
Pipe wrench.
Socket wrench.
Wrench. J. Harrison. No. 1,426,985; Aug. 22.
Wrench. G. D. Illig. No. 1,426,647; Aug. 22.
Wrenches, Bolt-retaining attachment for. E. K. Degener. No. 1,426,847; Aug. 22.
Wringer: *See*—
Mop wringer.
Wringer. R. A. Watkins. No. 1,426,526; Aug. 22.
Wringer. H. A. Webster. No. 1,426,798; Aug. 22.
Yarn-reclaiming device. A. R. Breen. No. 1,427,056; Aug. 22.
Zinc oxide, Treating by-product. J. E. Booge. No. 1,426,349; Aug. 22.

ALPHABETICAL LIST OF DESIGNS.

Airplane, Aviator-operated. J. D. Hill. No. 61,392; Aug. 22.
Automobile radiator closure. R. Preiss. No. 61,399; Aug. 22.
Automobiles, Radiator cap for. J. Tuomey. No. 61,403; Aug. 22.
Boot top. C. Tweedie. No. 61,404; Aug. 22.
Doll or similar article, Inflatable. F. W. Dodge. Nos. 61,387–8; Aug. 22.
Doll, Quilted. L. S. Ahrens. No. 61,384; Aug. 22.
Finger ring. P. Phoel. Nos. 61,397–8; Aug. 22.
Finger ring or similar article. C. L. Trout. No. 61,402; Aug. 22.
Gas heater. D. H. McCorkle. No. 61,395; Aug. 22.
Inkwell, calendar, and desk rack, Combination. W. H. Colby. No. 61,386; Aug. 22.
Lace. B. Shapiro. No. 61,401; Aug. 22.
Netted fabric. H. F. Betke. No. 61,385; Aug. 22.
Paper. C. H. Havemeyer. Nos. 61,389–91; Aug. 22.
Paper weight. H. A. Ross. No. 61,400; Aug. 22.
Scale, Computing. G. M. Ludlow. No. 61,394; Aug. 22.
Smoker's stand. A. Johnson. No. 61,393; Aug. 22.
Tire tread. H. D. Mitchell. No. 61,396; Aug. 22.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Antiseptic and alterative. Winthrop Chemical Company. No. 158,148; Aug. 22.
Antiseptic deodorant powder. D. G. Reeder. No. 158,064; Aug. 22.
Antiseptic mouth wash. G. B. Fewell. No. 157,945; Aug. 22.
Apple cider, grape juice, and fruit sirups for making soft drinks. California Fruit Beverage Co. No. 157,884; Aug. 22.
Ash receivers and trays. Reliance Metal Spinning & Stamping Co. No. 158,069; Aug. 22.
Balls, Golf. J. V. Hogue. No. 157,977; Aug. 22.
Balls, Golf. J. Wanamaker, New York. No. 158,138; Aug. 22.
Bathing suits. Myers Manufacturing Co. No. 158,036; Aug. 22.
Bathing suits and sweater coats, Men's, women's, and children's. Pacific Knitting Mills. No. 158,162; Aug. 22.
Batteries, Liquids for charging and recharging. Uradia Company. No. 158,131; Aug. 22.
Beautifier, rouge, shampoo, hair tonic, depilatory, eyebrow pencil. Colonial Dames Beautifier Company. No. 157,907; Aug. 22.
Bed springs. Perfection Mattress & Spring Co. No. 158,164; Aug. 22.
Bedspreads. Aurora Bed Spread Co. No. 157,860; Aug. 22.
Beverage and extract for making same. Star Extract Works. No. 158,104; Aug. 22.
Beverage and sirup and extract for making same. F. M. Bonheim. No. 157,872; Aug. 22.
Beverage and sirup for making the same. S. Davis. No. 157,920; Aug. 22.
Beverage and sirup for making the same. Nonalcoholic. M. Ashcroft. No. 157,858; Aug. 22.
Beverage and sirups and extracts for making same, Nonalcoholic maltless. Standard Bottling Company. No. 158,103; Aug. 22.
Beverage and sirups for making same. Irondequoit Fruit Juice Co. No. 157,988; Aug. 22.
Beverage and sirups for making same. American Bottling & Soda Water Co. No. 157,848; Aug. 22.
Beverage and sirups for making same, Fruit. Hamburger Co. No. 157,969; Aug. 22.
Beverage, Nonalcoholic malt cereal. J. W. Sappington. No. 158,081; Aug. 22.
Beverage, Nonalcoholic maltless. A/S Tuborga Fabrikker. No. 158,120; Aug. 22.
Beverage, Nonalcoholic maltless. Grape Ola Products Corporation. No. 157,967; Aug. 22.
Beverage, Nonalcoholic, maltless, celery tonic. M. Sopshin. No. 158,101; Aug. 22.
Beverage, Noncereal, nonalcoholic, maltless. E. & H. Silverman. No. 158,094; Aug. 22.
Beverage sold as a soft drink. F. Harwell. No. 158,159; Aug. 22.
Beverages and sirups for making same. Cherry Pride Company. No. 157,895; Aug. 22.
Beverages and sirups for making same. F. Greenwood, Inc. No. 157,968; Aug. 22.
Beverages and sirups for making same, Nonalcoholic, noncereal, maltless. Cherry Blossom Mfg. Co. Nos. 157,893–4; Aug. 22.
Beverages and sirups for making the same, Nonalcoholic, noncereal, maltless. Clauss-Broeker Co. No. 158,154; Aug. 22.
Beverages sold as soft drinks. S. & J. Angert Bros. No. 157,854; Aug. 22.
Beverages sold as soft drinks. G. C. Cook. No. 157,912; Aug. 22.
Binders, blank books, clipboards, copy cloths, etc. Rockwell-Barnes Company. No. 158,076; Aug. 22.
Black and galvanized sheets. United Alloy Steel Corporation. No. 158,125; Aug. 22.
Blankets, comfortables, bath-robe flannel, and blanket goods in the piece. Certain. Beacon Manufacturing Company. No. 157,864; Aug. 22.
Blankets, Gray cotton. Tremont & Suffolk Mills. No. 158,118; Aug. 22.
Blankets, Woolen. I. Ginzkey-Maffersdorf, Inc. Nos. 157,958–60; Aug. 22.
Bleaching materials. O. Osten. No. 158,048; Aug. 22.
Blouses, Children's dresses, boys' wash suits, Middy. Maas & Kemper, Inc. No. 158,007; Aug. 22.
Blouses, Ladies'. H. Metzler. No. 158,021; Aug. 22.
Books, Blank home-budget. Menter Co. No. 158,019; Aug. 22.
Brooms, dusting brushes, and wool dusters, Dusting. Wooleather Corp. No. 158,151; Aug. 22.
Brushes, Tooth, hair, etc. Mills Brothers Company. No. 158,029; Aug. 22.
Camisole and drawers, Combination. E. L. Roberts. No. 158,074; Aug. 22.
Caps. Glison Company. No. 157,957; Aug. 22.
Caps, Silk, felt cloth, and fur. Expert Cap Mfg. Co. No. 157,944; Aug. 22.
Capsules for hay fever, asthma, etc., Medicinal. E. W. Rahn. No. 158,063; Aug. 22.
Car for children, Coaster. Bryan & Sandbach. No. 157,880; Aug. 22.
Carbon remover. Solveno Chemical Co. No. 158,100; Aug. 22.
Cards, Playing. A. Dougherty. No. 157,927; Aug. 22.
Cards, Playing. United States Playing Card Company. No. 158,128; Aug. 22.
Champagnes and wines. Gold Seal Products Company. No. 157,962; Aug. 22.
Chemical substance in the nature of a flux. Carricite Company. No. 157,888; Aug. 22.
Cigarettes. Lady Nic Inc. No. 158,000; Aug. 22.
Cigarettes. H. Theocaridis. No. 158,114; Aug. 22.
Cigarettes. N. F. Turner. No. 158,123; Aug. 22.
Cigars. De Nobili Cigar Co. No. 157,923; Aug. 22.
Cigars. John C. Herman & Co. No. 157,975; Aug. 22.
Cigars. King-Ferree Co. No. 157,996; Aug. 22.
Cigars. Reid, Murdoch & Co. Nos. 158,066-7; Aug. 22.
Cigars and smoking tobacco. Cavour Cigar Company. No. 157,890; Aug. 22.
Cleaners, Chimney. T. G. Kohl Company. No. 157,998; Aug. 22.
Clothing, Certain articles of. J. A. Migel, Inc. Nos. 158,024–6; Aug. 22.
Clothing, Certain articles of. Thomas Dalby Company. No. 157,919; Aug. 22.
Cloths and stuffs of wool, worsted, or hair. Martin Sons and Company. No. 158,014; Aug. 22.
Coats and pants, hunting coats, and white duck packers' frocks, Fireman's duck night. St. Joseph Tent & Awning Co. No. 158,106; Aug. 22.
Coats, jackets, vests, waistcoats, trousers, etc. David S. Goldstein & Co. No. 157,963; Aug. 22.
Coats, vests, pants, and overcoats, Young men's and youths'. J. Blach & Sons. Nos. 157,867–8; Aug. 22.
Colors and dyes, dentifrices, perfumes, etc., Aniline. United States and South America Corporation. No. 158,130; Aug. 22.
Compound for certain medicinal uses. E. M. Angell. Nos 157,852–3; Aug. 22.
Compound for certain named uses. Lionne Company. No. 158,002; Aug. 22.
Corsets. T. Hynds. No. 157,984; Aug. 22.
Corsets, brassières, corset waists, hosiery, etc. American Lady Corset Co. No. 157,850; Aug. 22.
Cotton piece goods. Carter Dry Goods Co. No. 157,889; Aug. 22.
Cotton piece goods. J. P. Crozer. No. 157,918; Aug. 22.
Cotton piece goods. Pacific Mills. Nos. 158,049–50; Aug. 22.
Cotton piece goods. Tilton & Keeler, Inc. No. 158,115; Aug. 22.
Cravats, Men's and boys'. Hut Neckwear Company. No. 157,983; Aug. 22.
Cream, Skin. C. R. Harker, Stagg & Morgan. No. 157,973; Aug. 22.
Creams, Skin. Derma-Manna Co. No. 157,925; Aug. 22.
Cushions and pads, piano-bench pads, boat and canoe cushions, etc., Porch swing and chair. Ottawa Cushion Co. No. 158,161; Aug. 22.
Disinfectants, antiseptics, and purifiers. West Disinfecting Company. No. 158,142; Aug. 22.
Disinfectants, insecticides, and deodorant. Furman Company. No. 157,954; Aug. 22.
Doll heads. McCrosky Bros. No. 158,006; Aug. 22.
Dolls. Cosgrove Brothers, Inc. No. 157,914; Aug. 22.
Dolls and their parts. Kämmer & Reinhardt, A. G. No. 157,995; Aug. 22.
Draperies and upholsteries. Lesher, Whitman & Co. No. 158,028; Aug. 22.
Dresses, coats, cloaks, suits, and evening wraps for women. Copelof, Stillman & Co. No. 157,913; Aug. 22.
Dresses, Misses' and women's. Marcelle Corporation. No. 158,012; Aug. 22.
Dresses, petticoats, blouses, etc. Rosebud Mfg. Co. No. 158,077; Aug. 22.
Dresses, Women's and girls'. Friedman Dress Company. No. 157,953; Aug. 22.
Drinks and sirups, Carbonated soft. H. P. Hood & Sons, Inc. No. 157,979; Aug. 22.
Drying machines, also known as hydroextractors, Centrifugal. Tolhurst Machine Works. No. 158,116; Aug. 22.
Duck, Bleached cotton. Turner, Halsey Co. No. 158,166; Aug. 22.
Electrolyte compound for batteries. Electrogene Chemical Co. No. 157,935; Aug. 22.
Embalming fluid. Undertakers Supply Company. No. 158,124; Aug. 22.
Embrocations. Mucine Products Company. No. 158,033; Aug. 22.

Envelopes. United States Envelope Company. No. 158,127; Aug. 22.
Explosives, blasting powder, fuses, etc. Aktiengesellschaft Lignose. No. 157,847; Aug. 22.
Explosives, High. E. I. du Pont de Nemours & Company. No. 157,931; Aug. 22.
Extracts to be used for beverage purposes. Schrumm-Schrumm Co. No. 158,084; Aug. 22.
Eye tonic. K. J. Muszynski. No. 158,035; Aug. 22.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 158,089–93; Aug. 22.
Fezes. Supreme Pyramid Ancient Egyptian Order of Sciots. No. 158,109; Aug. 22.
Figures of animals, Wooden. Crawford-Wilsey Co. No. 157,917; Aug. 22.
Film-cleaning fluid. G. H. Bennett. No. 157,865; Aug. 22.
Fire-extinguishing liquid. S. H. Brooks. No. 158,152; Aug. 22.
Fishing baits, Artificial. Weber Lifelike Fly Co. No. 158,141; Aug. 22.
Frocks and rompers for outer wear, Children's. D. M. Robles. No. 158,075; Aug. 22.
Fungicides for plants. Dow Chemical Company. No. 157,928; Aug. 22.
Furniture, Certain household and porch. L. R. Gans. No. 158,158; Aug. 22.
Game boards, game indicator, counter, etc., and games played with a counter, indicator, or game piece. E. Bruder. No. 157,879; Aug. 22.
Game, Table. V. D. Blank. No. 157,870; Aug. 22.
Games. Piroxloid Products Corporation. No. 158,060; Aug. 22.
Garments formed of rubberized cloth, Acid-resisting. Defiance Welding Company. No. 157,922; Aug. 22.
Garters. National Garter Company. No. 158,038; Aug. 22.
Ginger ale. Abner-Drury Company. No. 157,842; Aug. 22.
Ginger ale. J. Z. Schonhoff. No. 158,083; Aug. 22.
Ginger ale, root beer, sarsaparilla, birch beer, etc. Hudor Co. No. 157,981; Aug. 22.
Gloves. Steinberger Bros. Lobl Co. No. 158,107; Aug. 22.
Gloves, fabric gloves, and mittens, Leather. Ely & Walker Dry Goods Company. Nos. 157,937–8; Aug. 22.
Gloves, Leather or fabric. Ellsworth & Thayer Mfg. Co. No. 158,156; Aug. 22.
Golf clubs and iron-headed golf clubs, Iron heads for. Wm. Gibson & Co. No. 157,956; Aug. 22.
Golf clubs, Steel shafts for. Horton Manufacturing Co. No. 157,980; Aug. 22.
Golf, Device for enabling a person to study and perfect himself in the game of. Holmac, Inc. No. 157,987; Aug. 22,
Hair nets. N. B. Cohen. Nos. 157,899–903; Aug. 22.
Hair nets. L. H. Connor. No. 157,911; Aug. 22.
Hair nets. Eastern Hair Net Trading Co. No. 157,933; Aug. 22.
Hair nets. Galchinsky Bros. No. 157,955; Aug. 22.
Hair nets. Jordan Marsh Company. No. 157,994; Aug. 22.
Hair nets. Sitroux Importing Company. No. 158,095; Aug. 22.
Hair nets. United States Hair Net Co. No. 158,126; Aug. 22.
Hair tonic. A. R. Byles. No. 157,883; Aug. 22.
Hair tonic. S. Caporale. No. 157,886; Aug. 22.
Hair tonic. K. A. O'Connor. No. 158,044; Aug. 22.
Hair tonics and dressings. G. G. Waldron. No. 158,137; Aug. 22.
Handkerchiefs. Acheson-Harden Co. No. 157,844; Aug. 22.
Hats for ladies, misses, and children. Ogus, Rabinovitch and Ogus Co. No. 158,045; Aug. 22.
Hats for women. Kohn, Adler & Co. No. 157,999; Aug. 22.
Hats, Men's. O'Rourke, Eubanks Hat Co. No. 158,047; Aug. 22.
Hats, Men's felt. F. Berg & Co. No. 157,866; Aug. 22.
Hosiery. Freedman & Co. No. 157,952; Aug. 22.
Hosiery. Glotex Hosiery Co. No. 157,961; Aug. 22.
Hosiery. May Hosiery Mills. No. 158,018; Aug. 22.
Hosiery. A. C. Hulse, jr. No. 157,982; Aug. 22.
Hosiery. Mock & Judson. No. 158,032; Aug. 22.
Hosiery. Tamor Brothers. No. 158,111; Aug. 22.
Hosiery. Van Raalte Company. No. 158,133; Aug. 22.
Hosiery. H. H. Wood & Company. No. 158,150; Aug. 22.
Hosiery and underwear of knitted and textile fabric. D. Brodinsky. No. 157,876; Aug. 22.
Insecticide. Enoz Chemical Company. No. 157,941; Aug. 22.
Jacks, Hydraulic. C. W. Reynolds. No. 158,071; Aug. 22. Aug. 22.
Knit underwear, Children's. Perry Knitting Company. No. 158,057; Aug. 22.
Knitted fabrics in the piece. Wiley-Bickford-Sweet Co No. 158,146; Aug. 22.
Knitted outer wear, sweaters, coats, capes, hockey caps, etc. Elbro Knitting Mills. No. 157,934; Aug. 22.
Knitted sweaters. Arr Tee Knitting Mills. No. 157,855; Aug. 22.
Labels, Blank gummed. A. W. Engel. No. 157,940; Aug. 22.
Liniment. Rossville Company. No. 158,079; Aug. 22.
Liniment for certain uses. G. E. Murry. No. 158,034; Aug. 22.
Liquid gauges. Akron-Selle Company. No. 157,845; Aug. 22.
Liquors, Spirituous. Aktieselskabet de Danske Spritfabrikker. No. 157,846; Aug. 22.
Machinery. Treadwell Engineering Company. No. 158,117; Aug. 22.
Machines and parts thereof and tools used in the manufacture of boots and shoes. United Shoe Machinery Corporation. No. 158,129; Aug. 22.
Malt and hop extracts for beverages. Gottfried Krueger Brewing Company. No. 157,965; Aug. 22.
Malt extract. M. C. Rosenfeld Company. No. 158,078; Aug. 22.
Malt extracts. A. Wielich. No. 158,145; Aug. 22.
Massage preparation for certain named purposes. C. A. Stuart. No. 158,108; Aug. 22.
Matches. Jönköpings Och Vulcans Tändsticksfabriksaktiebolag. No. 157,993; Aug. 22.
Mattresses. Perfection Mattress & Spring Co. No. 158,163; Aug. 22.
Mattresses. Perfection Mattress & Spring Co. No. 158,165; Aug. 22.
Medical compound for treating colds, coughs, hay fever, catarrh, etc. Snuffo Company. No. 158,099; Aug. 22.
Medicinal food product. Phytamin Corporation. Nos. 158,058–9; Aug. 22.
Medicinal preparation for diseases of women. Martin & Newnom. No. 158,015; Aug. 22.
Medicinal preparation for the treatment of certain diseases. Shepard's Pharmaceutical Company. No. 158,086; Aug. 22.
Medicinal preparation for the treatment of liver, kidneys, nerves, impure blood, etc. A. K. Johnson. No. 157,991; Aug. 22.
Medicinal preparation used for the reduction of inflammation. R. S. Clark. No. 157,897; Aug. 22.
Medicinal preparation, Certain. Bryant, French & Company. No. 157,881; Aug. 22.
Medicinal preparations, Certain. National Consolidated Drug Co. No. 158,037; Aug. 22.
Medicinal tonic for rheumatism. Sharp & Dohme. No. 158,085; Aug. 22.
Medicine for blood poisoning or impoverished blood. J. M. Hilles. No. 157,976; Aug. 22.
Medicine for the treatment of hay fever and colds. W. W. Baird. No. 157,862; Aug. 22.
Medicine for the treatment of headache, neuralgia, etc. C. G. Metcalfe. No. 158,020; Aug. 22.
Medicine, Liver. C. D. Absbear. No. 157,843; Aug. 22.
Medicines for certain diseases. R. W. Brown. No. 157,877; Aug. 22.
Medicines for medicinal treatment of sore gums, toothache, etc. J. E. Marriott. No. 158,013; Aug. 22.
Medicines for stock, horses, dogs, and poultry, Certain. Dr. Smith's Stock-Vigor Remedies Company. No. 158,098; Aug. 22.
Metal precipitants, Noble-. American Chemical Works. No. 157,849; Aug. 22.
Milling cutters, reamers, counterbores, etc. National Tool Company. No. 158,039; Aug. 22.
Oils, Wool, fulling, and scouring. Masury-Young Company. No. 158,016; Aug. 22.
Ointment for catarrh, hay fever, sprains, etc. A. M. Stein. No. 158,105; Aug. 22.
Ointment for sprains, etc. E. Van Boskirk. No. 158,132; Aug. 22.
Ointment, Medicinal. E. J. Dreisbach. No. 157,929; Aug. 22.
Outergarment for women and girls. V. Pope. No. 158,061; Aug. 22.
Overcoats, Men's and young men's. W. H. Wanamaker. No. 158,139; Aug. 22.
Paper, Bond. Louisville Paper Co. No. 158,004; Aug. 22.
Paper, Cover. J. W. Butler Paper Company. No. 157,882; Aug. 22.
Paper, Gummed. Samuel Jones & Company. No. 157,992; Aug. 22.
Paper, Waxed wrapping, crepe, tissue, and toilet. San Antonio Drug Co. No. 158,080; Aug. 22.
Paper, Wrapping. Waxtwell Paper Company. No. 158,140; Aug. 22.
Paper, Writing. Import Paper Company. Nos. 157,985–6; Aug. 22.
Pencils, Stylographic ink. H. A. Schmidt. No. 158,082; Aug. 22.
Perfumes, toilet waters, sachet, and sachet powders. Perfumerie Houbigant. No. 158,052; Aug. 22.
Pharmaceutical preparation for promoting the growth of hair. H. Cohrs. No. 157,905; Aug. 22.
Phosphorus. La Societe des Produits Chimiques Coignet. No. 158,001; Aug. 22.
Photographic purposes, Developer for. Mallinckrott Chemical Works. No. 158,010; Aug. 22.
Picture, spotlight, stereopticon, and photographic apparatus, Condensing lenses used in motion-. Sussfeld, Lorsch & Schimmel. No. 158,110; Aug. 22.
Pictures, Motion. Exceptional Pictures Corporation. No. 157,943; Aug. 22.
Pipes, Smokers'. W. W. Widoe. No. 158,144; Aug. 22.
Pocketknives. Challenge Cutlery Corporation. No. 157,891; Aug. 22.
Poison, Rat. F. Brososky. No. 157,878; Aug. 22.
Poison, Rat, mice, and squirrel. B. B. Reilly. No. 158,068; Aug. 22.

Powders, Headache. Fox Drug Co. No. 157,951; Aug. 22.
Powders, nitrated (gun) cotton, dynamite detonators, etc., Explosive. Poudreries Reunies de Belgique Societe Anonyme. No. 158,062; Aug. 22.
Preparation for certain uses, Liquid. H. Harden. No. 157,972; Aug. 22.
Preparation for the removal of superfluous hair. A. J. Richardson. No. 158,072; Aug. 22.
Preparation for the scalp used as a tonic and for promoting the growth of hair. M. L. Whitfield. No. 158,143; Aug. 22.
Preparation for the treatment of pyorrhea. G. I. Branower. No. 157,875; Aug. 22.
Preparation for the treatment of rheumatism, neuralgia, etc. C. H. Matson. No. 158,017; Aug. 22.
Preparation for treating and relieving pain to the gums, Liquid. B. L. Palleyesch. No. 158,051; Aug. 22.
Preparations for the treatment of coughs and colds. G. I. Branower. No. 157,874; Aug. 22.
Raincoats. W. MacPherson. No. 158,008; Aug. 22.
Raincoats and sweaters. Artistic Designers, Inc. No. 157,856; Aug. 22.
Raincoats, cravenettes, gabardines, bath robes, and ladies' skirts. Comer Manufacturing Company. No. 158,155; Aug. 22.
Refrigerators. G. R. Craw. No. 157,916; Aug. 22.
Remedy for the prevention and relief of seasickness. J. S. Niederkorn. No. 158,041; Aug. 22.
Remedy for the treatment of blennorrhea. L'Euterapica. No. 157,942; Aug. 22.
Remedy, Pile. Craven & Love. No. 157,915; Aug. 22.
Remedy, Tapeworm. E. Aruny. No. 157,857; Aug. 22.
Roller coasters. Eastern Engineering Company. No. 157,932; Aug. 22.
Rubber or composition rubber shoe soles and heels. Republic Rubber Corporation. No. 158,070; Aug. 22.
Rugs. Colonial Rug Company. No. 157,908; Aug. 22.
Rugs and carpets, Wool. H. G. Fetteroif Company. No. 158,157; Aug. 22.
Salt. Independent Salt Company. No. 157,987; Aug. 22.
Salt (sodium chloride). Capell Salt Company. No. 158,153; Aug. 22.
Salve for treatment of rheumatism, etc., Medicinal. A. C. Conn. No. 157,910; Aug. 22.
Salve for use in treatment of colds, coughs, influenza, burns, etc. Park Laboratory Company. No. 158,053; Aug. 22.
Salve, Heating. P. Cocuzza. No. 157,898; Aug. 22.
Scalp tonic. H. A. Parrish. No. 158,054; Aug. 22.
Selenium colloids. Collene Laboratories Inc. No. 157,906; Aug. 22.
Sheetings. Pelzer Manufacturing Company. No. 158,055; Aug. 22.
Shirts, boys' shirts and blouses, Men's. Bob & Baskind. No. 157,871; Aug. 22.
Shirts, Men's dress. G. A. Ripley. No. 158,073; Aug. 22.
Shoes, slippers, and moccasins. A. L. Day. No. 157,921; Aug. 22.
Silk piece goods. Duplan Silk Corporation. No. 157,930; Aug. 22.
Silk piece goods. Empire Silk Company. No. 157,939; Aug. 22.
Silk piece goods. H. R. Mallinson & Co. No. 158,011; Aug. 22.
Silk ribbons and silk and cotton ribbons. Goldy Brothers. No. 157,964; Aug. 22.
Sirup for beverages, Malt. Milwaukee-Waukesha Brewing Company. No. 158,031; Aug. 22.
Sirups for beverages, Maltless cereal. Milwaukee-Waukesha Brewing Company. No. 158,030; Aug. 22.
Sirups used in the preparation of soft drinks, Maltless flavoring. J. L. Reese, Inc. No. 158,065; Aug. 22.
Snowshoes, skis, sleds, baseballs, etc. Hanscom Hardware Co. No. 157,971; Aug. 22.
Speedometers. H. Hammarlund. No. 157,970; Aug. 22.
Spraying systems and parts thereof, Water and other liquid. Spray Engineering Company. No. 158,102; Aug. 22.
Strawboard, box board, etc. C. L. Laboiteaux Company. No. 157,896; Aug. 22.
Suits and overcoats, Men's and boys'. Michaels, Stern & Co. Nos. 158,022–3; Aug. 22.
Suits and trousers, Men's and boys' outer. Cohn, Goldwater Company. No. 157,904; Aug. 22.
Sulphur and sulphur inoculated with bacteria. Texas Gulf Sulphur Company. No. 158,113; Aug. 22.
Sulphur inoculated with bacteria. Texas Gulf Sulphur Company. No. 158,112; Aug. 22.
Sweaters. Pennsylvania Knitting Mills. No. 158,056; Aug. 22.
Sweaters, Ladies'. Hillman & Israel. No. 158,160; Aug. 22.
Tablets, Gland. E. C. Treuting. No. 158,119; Aug. 22.
Tablets, Laxative. E. Loesch. No. 158,003; Aug. 22.
Tablets to be used for indigestion. J. E. De Van. No. 157,926; Aug. 22.
Textile, Articles made of. F. Gouléd. No. 157,966; Aug. 22.
Textile fabrics, Certain. Ely & Walker Dry Goods Company. No. 157,936; Aug. 22.
Thymol, menthol, essential oils suitable for production of perfumes, etc. Julian W. Lyon & Co. No. 158,005; Aug. 22.
Tobacco, cigars, cigarettes, and snuff, Smoking and chewing. "Turmac" Turkish-Macedonian Tobacco Co. Nos. 158,121–2; Aug. 22.
Tobacco, Smoking. Bailey Bros. Inc. No. 157,861; Aug. 22.
Toilet preparations. D. Jaquet. No. 157,989; Aug. 22.
Toilet preparations. Magnin & Co. No. 158,009; Aug. 22.
Toilet preparations. C. C. Oliver. No. 158,046; Aug. 22.
Toilet preparations. Williams & Frederick, Inc. No. 158,147; Aug. 22.
Toilet preparations, Certain. J. H. Calisher. No. 157,885; Aug. 22.
Toilet preparations, Certain. C. Nieto de Herrera e Hijos. No. 157,887; Aug. 22.
Tonic diuretic for the kidneys and bladder. C. E. Wood. No. 158,149; Aug. 22.
Tonic for poultry, pigeons, and turkeys, General. Nu-Life Company. No. 158,043; Aug. 22.
Tonic, General medicinal. Nu-Iron Laboratory Inc. No. 158,042; Aug. 22.
Tooth paste. American Sundries Company. No. 157,851; Aug. 22.
Tooth paste. J. J. Blackman. No. 157,869; Aug. 22.
Tooth paste. Dentifruit, Inc. No. 157,924; Aug. 22.
Toothbrushes. E. T. Slattery Company. No. 158,096; Aug. 22.
Toy banks. L. I. King. No. 157,997; Aug. 22.
Toy bicycle. Smith Manufacturing Co. No. 158,097; Aug. 22.
Toy dart or arrow. J. C. Milligan. No. 158,027; Aug. 22.
Toy vehicle, Child's. B. Brady. No. 157,873; Aug. 22.
Toys, Certain. Barnard Toy Co. No. 157,863; Aug. 22.
Underwear, Silk, satin, crêpe de chine, and textile-fabric. Joan Underwear Corporation. No. 157,990; Aug. 22.
Union suits (waist), union suits, undershirts, and drawers. Nazareth Waist Co. No. 158,040; Aug. 22.
Vaginal suppositories and a general tonic. Colton & Collins, Inc. No. 157,909; Aug. 22.
Veils, hair nets, silk, cotton, and woolen piece goods, and lace curtains. V. Vivaudou, Inc. No. 158,134; Aug. 22.
Vitamine preparation for use as a general tonic. Harrell Drug Co. No. 157,974; Aug. 22.
Wines, Champagne. Walbum, Goulden & Co. Nos. 158,135–6; Aug. 22.
Wool, wool and cotton, and wool and silk mixture fabrics. Shlivek Brothers Fabrics Corporation. Nos. 158,087–8; Aug. 22.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 157,946–50; Aug. 22.
Woolen, worsted, linen, velvet, haircloth, venetian, canvas, and cotton piece goods. Associated Commission Co. No. 157,859; Aug. 22.
Woven, knitted, netted, textile, and pile fabrics in the piece. Cheney Brothers. No. 157,892; Aug. 22.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adhesive substance. W. L. White. Nos. 155,845–6; Aug. 22.
Anchovies in salt and in olive oil, canned vegetables, pimientos, and artichokes, olive oil. Cartagena & Mavro. No. 150,733; Aug. 22.
Antirattlers, brake-rod supports, axle braces, license brackets, etc. Apco Manufacturing Company. No. 137,651; Aug. 22.
Antisnoring device. D. H. Miller. No. 157,438; Aug. 22.
Automobile springs of the leaf type. Jenkins Vulcan Spring Co. No. 132,535; Aug. 22.
Beverage sold as soft drink. Golden State Bottling Co. No. 163,977; Aug. 22.
Beverage sold as soft drink and sirups used in preparation of same and a concentrate. Henry-Brown Co. No. 164,245; Aug. 22.
Beverages and sirups and concentrates for making same. Citrus Products Company. No. 154,483; Aug. 22.
Beverages sold as soft drinks and sirups used in preparation of same. S. W. Brown Company. No. 166,631; Aug. 22.
Beverages sold as soft drink and sirups used in preparation of same. Henry-Brown Company. No. 166,687; Aug. 22.
Beverages sold as soft drinks and sirups used in preparation of same. Frutrite Products Company. No. 166,992; Aug. 22.
Beverages sold as soft drinks and sirups used in preparation of same. McAvoy Company. No. 167,006; Aug. 22.
Biscuit. National Biscuit Company. No. 142,995; Aug. 22.
Bloomers, brassières, step-ins, etc., Ladies'. F. Rosenberg. No. 162,056; Aug. 22.
Bluing. Jasmine Ink Corporation. No. 163,089; Aug. 22.
Books and patterns for art needlework, etc., initial, monogram, and design. Bernhard Ulmann Co. No. 161,760; Aug. 22.
Boots and shoes, Children's leather. Foot, Schulze & Co. No. 164,635; Aug. 22.
Boots and shoes, Leather. Krohn-Fechheimer Co. No. 160,013; Aug. 22.
Bottles and other containers, Closure disk for. Sealright Company. No. 133,989; Aug. 22.
Brassières. Chas. R. De Bevoise Co. No. 161,238; Aug. 22.
Bread. Allen Flour Company. No. 131,246; Aug. 22.
Bread. Jacob Laub Baking Co. No. 131,797; Aug. 22.
Bread. Schulze Baking Company. No. 147,129; Aug. 22.
Bread. William Freihofer Baking Co. No. 125,082; Aug. 22.
Bronze powders, bronzing liquids, driers, enamels, etc. William Zinsser & Company. No. 158,163; Aug. 22.
Butter, eggs, lard, and dressed poultry. M. Augenblick & Bro. No. 145,488; Aug. 22.
Cakes. Acme Cracker Co. No. 152,228; Aug. 22.
Cakes. Iten Biscuit Co. No. 152,564; Aug. 22.
Cakes, cakes especially molded for holding and serving ice cream, etc. J. H. Mulholland. No. 148,809; Aug. 22.
Canned grapefruit in cans and glasses. H. L. Sherman. No. 159,056; Aug. 22.
Canned plums. California Packing Corporation. No. 155,046; Aug. 22.
Canned salmon, peas, and condensed milk, wheat flour, coffee, etc. Gomez & Sloan, Inc. No. 153,399; Aug. 22.
Cantaloupes, Fresh. C. M. Otoy & Co. No. 153,687; Aug. 22.
Caps, Peaks or visors for. Mutual Cap Front Mfg. Co. No. 161,496; Aug. 22.
Carbon remover and chemical grease and stain remover, Chemical. S. Morin. No. 134,477; Aug. 22.
Cars, Dump. Clark Car Company. No. 147,661; Aug. 22.
Cereals for use as breakfast food, Roasted and ground. Caperverdian Trading Company. No. 112,655; Aug. 22.
Cheese, butter, milk, etc. K. Hoefelmayr. No. 141,722; Aug. 22.
Cherries, peaches, plums, apples, etc., Fresh. Wenatchee Valley Fruit Exchange, Inc. No. 159,450; Aug. 22.
Cigars, smoking tobacco, and cigarettes. Tuckett Tobacco Company Limited. No. 162,781; Aug. 22.
Clothing. Best & Co. No. 156,673; Aug. 22.
Clothing, Men's and boys'. Rice-Stix Dry Goods Company, Inc. No. 161,703; Aug. 22.
Coal, Bituminous. Grand Junction Mining & Fuel Company. No. 147,923; Aug. 22.
Coats, cloaks, wraps, capes, suits, costumes, etc., Women's, children's, and infants'. Salt's Textile Manufacturing Company. No. 159,110; Aug. 22.
Cock, Oil. Automotive Appliances Mfg. Co. No. 161,914; Aug. 22.
Cocks, ball cocks, Mansfield ball cocks. Acheson Manufacturing Company. No. 163,210; Aug. 22.
Cod fillets, preserved flaked fish, fish paste, etc., Smoked. Newfoundland Fish Products, Limited. No. 152,475; Aug. 22.
Colors, Pulp and dry. Standard Wall Paper Co. No. 163,603; Aug. 22.
Confections. C. L. Peirce. No. 158,950; Aug. 22.
Corsets, women's underwear, and nightgowns. J. C. Penney Company. No. 161,748; Aug. 22.
Cotton batting. Marshall Field & Company. Nos. 164,891–5; Aug. 22.
Cotton, cotton thread, cotton yarn, etc., Spool and sewing. American Thread Company. No. 157,125; Aug. 22.
Cotton piece goods. Everett, Heaney & Co. Nos. 166,818–9; Aug. 22.
Cotton piece goods. Everett Mills. No. 163,506; Aug. 22.
Cough drops. C. L. Brush. No. 163,372; Aug. 22.
Counterirritants. Parke, Davis & Company. No. 163,646; Aug. 22.
Creams and powders, Toilet. L. S. Thomas. No. 163,012; Aug. 22.
Crochet twist. William T. Palmer & Company. No. 163,002; Aug. 22.
Cupping outfits and aspirators and parts thereof, etc. Dr. O. Lederer. No. 156,092; Aug. 22.
Deodorants. Boots Pure Drug Company. No. 143,344; Aug. 22.
Deodorant. L. S. Thomas. No. 163,011; Aug. 22.
Dictionaries. G. & C. Merriam Company. No. 162,837; Aug. 22.
Dishes, Household. F. C. Baxter. No. 161,298; Aug. 22.
Doilies, table linens, bedspreads, etc. Rubino-Destafino Co. No. 163,284; Aug. 22.
Dyes and dyestuffs. H. A. Metz. No. 163,278; Aug. 22.
Feed, Chicken. M. Liggett. No. 152,762; Aug. 22.
Fiber, Artificial-silk. Textile Manufacturing Co. No. 160,519; Aug. 22.
Face powders, face creams, perfumes, etc. V. Vivaudou, Inc. No. 163,720; Aug. 22.
Face powders, face creams, perfumes, toilet waters, rouges, etc. V. Vivaudou, Inc. No. 163,906; Aug. 22.
Fishing lines, Japan hard braid silk. Cortland Line Co. No. 164,395; Aug. 22.
Flavors, extracts, and emulsions for food purposes, pie-filling powders, etc. Almo Products Co. No. 145,428; Aug. 22.
Flour, macaroni, corn meal, etc., Wheat. Globe Grain & Milling Company. No. 137,936; Aug. 22.
Flour, rolled oats, coffee, tea, etc., Wheat. A. H. Perfect & Co. No. 145,357; Aug. 22.
Flour, Self-rising. Cape County Milling Company. No. 152,788; Aug. 22.
Flour, Wheat. Fisher Flouring Mills Company. No. 144,672; Aug. 22.
Flour, Wheat. Fisher Flouring Mills Company. No. 152,794; Aug. 22.
Flour, Wheat. J. D. Miller. No. 152,027; Aug. 22.
Flour, Wheat. J. E. Murphy & Co. No. 147,443; Aug. 22.
Flour, Wheat. Red Star Milling Company. No. 136,725; Aug. 22.
Flour, Wheat. St. Paul Milling Co. No. 152,189; Aug. 22.
Flour, Wheat. Theobald Flour Mills Co. No. 132,129; Aug. 22.
Food, Whole-wheat milk. Dennos Food Co. of Portland. No. 147,094; Aug. 22.
Football, Game of indoor. E. E. Rees. No. 161,897; Aug. 22.
Footwear, Women's. D. W. Salfer. No. 153,571; Aug. 22.
Fruits, Artificial. Emery Art Fruit Co. No. 162,671; Aug. 22.
Fruits, Fresh citrus. Geneva Citrus Growers Association. No. 154,872; Aug. 22.
Glass articles, Cut-. Pope Cut Glass Company. No. 98,121; Aug. 22.
Gloves and baseball mitts. Des Moines Glove & Mfg. Company. No. 159,086; Aug. 22.
Gloves, Boxing and fighting. S. Levinson. No. 143,360; Aug. 22.
Gloves, Leather. Clothier, Giles & Co. Limited. No. 154,485; Aug. 22.
Greases, cable-lubricating oils, etc., Axle and black. Standard Oil Company (Incorporated in New Jersey). No. 157,179; Aug. 22.
Hair nets. Marshall Field & Company. No. 166,668; Aug. 22.
Hair restorers. E. L. Patten. No. 161,951; Aug. 22.
Hair tonic. Dixie Laboratories. No. 154,014; Aug. 22.
Hair tonic. J. Rinciari. No. 163,766; Aug. 22.
Hair tonic. P. H. Warshaw. No. 163,724; Aug. 22.
Handkerchiefs. S. W. Magnus & Co. No. 166,706; Aug. 22.

Hats and caps. Sal-Ruf Co. No. 161,281; Aug. 22.
Hats, Ladies'. Hodge-Falk Corporation. No. 161,996; Aug. 22.
Hooks, gut leaders and artificial flies, Snelled. Enterprise Manufacturing Company. No. 166,297; Aug. 22.
Hosiery. Dreyfus & Company. No. 161,919; Aug. 22.
Hosiery. Lehigh Silk Hosiery Mills. No. 161,268; Aug. 22.
Hosiery. Novelty Sport Hosiery Mills. No. 161,697; Aug. 22.
Ink, dye, or stain for boots and shoes. United Shoe Machinery Corporation. No. 148,042; Aug. 22.
Intravenous mercurial preparations. Seydel Manufacturing Company. No. 161,751; Aug. 22.
Jars, Glass. Schram Glass Manufacturing Company. No. 158,952; Aug. 22.
Knickers, bloomers, middy blouses, etc., for females. Kenilworth Manufacturing Co. No. 161,556; Aug. 22.
Knitted coats for outer wear, Men's. Alcone Knitting Mills. No. 161,666; Aug. 22.
Knitting and crocheting artificial silk, threads, and yarns. I. Daniel & Sons. No. 153,131; Aug. 22.
Lace curtains and nets, or curtain lace in piece goods. Chester Lace Mills. No. 165,182; Aug. 22.
Lace curtains and nets or curtain lace in piece goods. Quaker Lace Company. No. 165,207; Aug. 22.
Lace in the piece, Embroidered. F. J. Cavanaugh. No. 160,659; Aug. 22.
Leather, Finished sole. Louis Silberman & Sons. No. 163,549; Aug. 22.
Linen piece goods. Hibben, Hollweg & Co. No. 164,042; Aug. 22.
Lubricant for use in working of metal. S. D. Benoliel. No. 158,816; Aug. 22.
Magazines, Fiction. Street & Smith Corporation. No. 158,655; Aug. 22.
Matches. Jönköpings Och Vulcans Tändsticksfabriksaktieboiag. Nos. 155,061–2; Aug. 22.
Medicinal herb preparations, Certain. United Star Herb Medicine Co. No. 161,759; Aug. 22.
Medicinal preparation for sore throat and other diseases. W. H. Gross. No. 163,578; Aug. 22.
Medicinal preparation for the relief of dysentery. F. Primeaux. No. 159,102; Aug. 22.
Medicinal preparation used in treatment of acute chronic, kidney, bladder, and urinary disorders, etc. W. H. Gross. No. 163,580; Aug. 22.
Medicinal preparation used in the treatment of anæmia, loss of appetite, etc. W. H. Gross. No. 163,579; Aug. 22.
Medicinal preparation used in treatment of dyspepsia, indigestion, sick headache, etc. W. H. Gross. No. 163,581; Aug. 22.
Mentholated cotton. J. Schwarzbart. No. 156,241; Aug. 22.
Minnows and fishing lines, Artificial. Enterprise Manufacturing Company. No. 166,296; Aug. 22.
Mushrooms in oil, olive oil, canned fish, mushroom sauce, etc. Podesta Import Company. No. 152,585; Aug. 22.
Nails. Creo-Dipt Company. No. 165,581; Aug. 22.
Oil and greases, etc., Motor and auto. L. Blaustein. No. 158,670; Aug. 22.
Oil, Cottonseed. Huth, Gillespie & Company. No. 151,712; Aug. 22.
Oil, Olive. D. Candela. No. 155,598; Aug. 22.
Oils and greases, Lubricating. L. M. Crane & Company. No. 156,477; Aug. 22.
Oils, Food. Display Doughnut Machine Corporation. No. 155,090; Aug. 22.
Overalls and trousers, Men's, boys', and children's, Large & Roomy Overall Mfg. Co. No. 161,842; Aug. 22.
Overcoats, raincoats, suits, etc., Men's, women's, and misses'. Rosenwald & Weil Inc. No. 161,149; Aug. 22.
Oysters and canned oysters. North Atlantic Oyster Farms, Inc. No. 153,224; Aug. 22.
Pans, Tinned bake. August Maag Company. No. 163,846; Aug. 22.
Paper, Bond. Blake, McFall Company. No. 161,295; Aug. 22.
Pastes and powders for the teeth, skin, and hair, and perfumery. Parfumerie Roger & Gallet. No. 148,165; Aug. 22.
Pastry, topping for ice cream, cake, and sauce, Filler for French. Chase & Anderson. No. 159,560; Aug. 22.
Perfumes. Harriet Hubbard Ayer. Nos. 162,967–9; Aug. 22.
Perfumes. Harriet Hubbard Ayer. Nos. 162,971–5; Aug. 22.
Perfumes, toilet waters, face powders, etc. Magnum Import Co. No. 163,165; Aug. 22.
Petroleum and products of petroleum. Standard Oil Company of New York. No. 153,374; Aug. 22.
Petticoats and bloomers. Cosgrove Brothers, Inc. No. 161,671; Aug. 22.
Photography, Toning and fixing solutions, etc., all used in. Boots Pure Drug Company. No. 143,340; Aug. 22.
Piece goods—viz. cretonne. Marshall Field & Company. No. 166,667; Aug. 22.
Pile fabrics in the piece. Salt's Textile Manufacturing Company. No. 165,310; Aug. 22.
Pile fabrics in the piece. Salt's Textile Manufacturing Company. No. 165,312; Aug. 22.
Pipes. W. M. de Pars. No. 163,921; Aug. 22.
Polish, Furniture. J. C. Coppola. No. 153,619; Aug. 22.
Polishes and waxes, preservatives, etc., Furniture and floor. Société Anonyme des Produits du Lion Noir. No. 146,090; Aug. 22.
Powders, face creams, perfumes, toilet waters, rouges, hair tonics, etc., Face. Euola Cosmetic Co. No. 163,575; Aug. 22.
Preparation for baldness. H. C. Hosick. No. 161,835; Aug. 22.
Preparation for the treatment of cancer. M. Alberico. No. 159,548; Aug. 22.
Preparation for treatment of rheumatism, gout, etc. H. F. Machunze. No. 163,817; Aug. 22.
Raincoats. Cambridge Rubber Company. No. 161,109; Aug. 22.
Remedy for ailments of the mouth and throat. J. F. Shannon. No. 163,194; Aug. 22.
Remedies for colds, coughs, catarrh, and inflammations. Boots Pure Drug Company. No. 143,342; Aug. 22.
Remedies, Obesity and antifat. Boots Pure Drug Company. No. 143,345; Aug. 22.
Remedy or relief in case of seasickness, train sickness, and nausea. Boots Pure Drug Company. No. 143,343; Aug. 22.
Rivets. Penn Rivet Corporation. No. 164,554; Aug. 22.
Robes and smoking jackets, Bath and lounging. Van Baalen, Heilbrun & Co. No. 158,102; Aug. 22.
Roofing, building board, etc., Prepared. Heppes-Nelson Roofing Company. No. 131,578; Aug. 22.
Rubber heels. Panther Rubber Manufacturing Company. Nos. 163,054–5; Aug. 22.
Rubber heels. Panther Rubber Manufacturing Company. No. 163,057; Aug. 22.
Rubber soles and taps. Panther Rubber Manufacturing Company. No. 163,056; Aug. 22.
Rubbing preparation for external use. Bowman Drug Company. No. 163,667; Aug. 22.
Salt. Independent Salt Company. No. 162,010; Aug. 22.
Salt. Remington Salt Company. No. 163,286; Aug. 22.
Salt. Remington Salt Company. Nos. 163,288–9; Aug. 22.
Salt. Wadsworth Salt Company. No. 163,019; Aug. 22.
Salves for skin diseases. W. L. Adden. No. 131,371; Aug. 22.
Satin in the piece. Shoe Products Co. No. 166,472; Aug. 22.
Seats, Toilet. Beneke & Kropf Manufacturing Company. No. 166,432; Aug. 22.
Shampoo, liniment, medicated alcohol, mange mixture. J. G. Goldenberg. No. 159,150; Aug. 22.
Shirt bands. A. Steinhardt & Bro. Inc. No. 161,859; Aug. 22.
Shirts and blouses, Boys'. Ernest Simons Manufacturing Co. No. 161,588; Aug. 22.
Shirts, undershirts, collars, pyjamas, and drawers. Enro Shirt Company. No. 158,672; Aug. 22.
Shirt-waist hangers. M. N. Faulk. No. 154,407; Aug. 22.
Shoe dressing. R. H. Sherman. No. 149,100; Aug. 22.
Shoes. Anderson-Dulin-Varnell Co. No. 160,785; Aug. 22
Shoes. Ensign Shoe Co. No. 161,980; Aug. 22.
Shoes. Johansen Bros. Shoe Company. No. 160,194; Aug. 22.
Shoes, Girls' leather. S. T. Sorensen. No. 156,244; Aug. 22.
Silk, artificial-silk, linen, woolen, and cotton piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 166,759; Aug. 22.
Sirup, Maple. S. W. Tuttle. No. 159,229; Aug. 22.
Slippers, Felt. Lind Shoe and Slipper Co. No. 160,713; Aug. 22.
Slippers, Leather. Tendick Shoe Manufacturing Co. No. 157,389; Aug. 22.
Sprinklers, Lawn. Chicago Flexible Shaft Company. No. 166,980; Aug. 22.
Steam specialties. Strong, Carlisle & Hammond Company. No. 166,152; Aug. 22.
Suits, Life-saving. Aud Company. No. 128,263; Aug. 22.
Suits, overcoats, topcoats, trousers, etc., Men's and boys'. Spilton & Glanzrock. No. 162,139; Aug. 22.
Sweater or knit-goods coat and bathing suits. Pacific Knitting Mills, Inc. No. 161,142; Aug. 22.
Tablecloths, doilies, and mat covers. Kemp & Beatley, Inc. No. 130,174; Aug. 22.
Tablets, Throat. Boots Pure Drug Company. No. 143,341; Aug. 22.
Taffeta cloth. Ulrich & Donaldson. No. 162,361; Aug. 22.
Tents. Brooks Tent & Awning Company. No. 154,120; Aug. 22.
Tents and tarpaulins. Indianapolis Tent & Awning Co. No. 159,467; Aug. 22.
Thread, Mercerized and plain cotton. A. J. Rothstein. No. 158,446; Aug. 22.
Ties, Ladies' and men's. U. S. Neckwear Co. No. 159,734; Aug. 22.
Tobacco, Smoking. A. Dunhill. No. 153,078; Aug. 22.
Toilet lotion. Hiscox Chemical Works. No. 163,335; Aug. 22.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tonic and remedy, Poultry. N. Gonick. No. 157,481; Aug. 22.
Tooth paste. Hy-Gen-Ol Laboratory. No. 163,334; Aug. 22.
Toy dog and kennel. John Hugo Manufacturing Company. No. 163,520; Aug. 22.
Toy favors. Rainbo Paper Favor Works. No. 163,183; Aug. 22.
Underskirts and petticoats. Samuel N. Magill, Inc. No. 162,035; Aug. 22.
Vanishing cream, almond and lemon cream, brilliantine, mud massage, etc. Fink & Rock, Inc. No. 163,513; Aug. 22.
Varnish healer and restorer. Pearson Piano Company. No. 149,719; Aug. 22.
Vegetables. Deschapelles, Collins & Co. No. 132,517; Aug. 22.
Vulcanizable material. Rex-Hide Rubber Manufacturing Company. Nos. 163,945–6; Aug. 22.
Wafers, Sugar. Johnson Educator Food Co. No. 141,588; Aug. 22.
Wafers, Sugar. Johnson Educator Food Company. Nos. 143,820–1; Aug. 22.
Wall finish, Cold-water. Benjamin Moore & Co. No. 154,038; Aug. 22.
Webbing, Elastic. William T. Palmer & Company. No. 158,887; Aug. 22.
Wheels, Load-carrying. Motor Wheel Corporation. No. 153,095; Aug. 22.
Wool, worsted, and hair cloths in the piece. Burberrys Limited. No. 143,081; Aug. 22.
Woolen piece goods. Forstmann & Huffmann. Nos. 166,439–43; Aug. 22.
Wrinkle paste. Marinello Company. No. 163,100; Aug. 22.
Yeastlike bread-making composition. Nutrose Company. No. 146,923; Aug. 22.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 22, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

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1,426,999
43: 1,426,345
44: 1,426,501
85: 1,426,846
89: 1,426,650

221— 51: 1,426,586
99: R. 15,432
118: 1,426,671
223— 19: 1,426,871
224— 29: 1,426,455
1,426,644
226— 23: 1,427,013
229— 5.5: 1,426,500
17: 1,426,439
34: 1,426,948
47: 1,426,394
230— 11: 1,426,954
30: 1,426,356
35: 1,426,518
233— 29: 1,426,880
1,426,959
234— 21: 1,426,735
235— 59: 1,426,377
1,426,502
60: 1,426,419
1,426,710
69: 1,426,484
70: 1,426,825
84: 1,426,829
87: 1,426,477
142: 1,426,434
238— 55: 1,426,828
62: 1,426,479
195: 1,426,618
282: 1,427,062
336: 1,426,772
240— 1: 1,426,395
2: 1,427,042
11: 1,426,707
44: 1,426,857
1,426,858
1,426,859
45.6: 1,426,774

240— 62: 1,426,963
78: 1,426,360
111: 1,426,951
242— 43: 1,427,035
55: 1,426,779
70: 1,426,614
71: 1,426,713
84.5: 1,426,597
84.7: 1,426,594
95: 1,426,483
100: 1,427,051
123: 1,426,898
244— 3: 1,426,369
1,426,370
6: 1,426,726
11: 1,426,870
12: 1,427,012
30: 1,426,639
31: 1,426,413
1,426,626
1,426,894
246— 200: 1,426,410
1,426,922
294: 1,426,839
318: 1,426,542
441: 1,426,583
248— 2: 1,426,359
249— 54: 1,426,709
250— 8: 1,426,944
27: 1,426,731
1,426,801
1,426,826
34: 1,426,899
251— 112: 1,426,731
129: 1,426,560
254— 74: 1,426,664
83: 1,426,527
87: 1,426,679

254— 100: 1,426,423
166: 1,427,080
186: 1,426,654
255— 18: 1,426,834
19: 1,426,670
61: 1,427,019
64: 1,426,637
73: 1,426,681
76: 1,427,064
256— 48: 1,426,777
257— 130: 1,426,725
179: 1,426,515
243: 1,427,018
259— 104: 1,426,984
109: 1,426,444
260— 60: 1,426,380
119: 1,426,457
130: 1,426,348
139: R. 15,434
173: 1,426,449
261— 18: 1,426,685
64: 1,426,570
79: 1,426,714
263— 5: 1,426,592
40: 1,427,009
44: 1,426,748
267— 19: 1,426,529
37: 1,426,613
54: 1,426,406
60: 1,427,060
268— 9: 1,426,591
1,426,901
271— 30: 1,427,002
36: 1,426,901
56: 1,426,980
274— 27: 1,426,970
279— 4: 1,426,541
69: 1,426,704

280— 33.2: 1,426,938
36: 1,426,601
163: 1,426,564
285— 120: 1,426,724
286— 1: 1,426,416
24: 1,426,493
287— 111: 1,426,628
288— 1: 1,426,459
290— 31: 1,427,067
35: 1,426,791
291— 13: 1,426,627
292— 275: 1,426,415
307: 1,426,412
340: 1,426,445
293— 46: 1,426,371
55: 1,426,565
1,426,964
294— 41: 1,426,553
49: 1,426,442
64: 1,426,930
65: 1,426,692
67: 1,426,764
96: 1,427,033
99: 1,427,044
296— 1: 1,426,787
84: R. 15,433
95: 1,426,793
97: 1,426,716
1,427,038
120: 1,426,912
139: 1,426,969
300— 3: 1,426,382
301— 11: 1,427,006
20: 1,426,480
39: 1,426,511
66: 1,426,881
104: 1,426,942
303— 6: 1,426,893

C

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF AUGUST, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adams, Frederick B., et al. (See Bannigan, John P., assignor.)
Adye, John F. (See Stanfield, Joseph R. M., assignor.)
Air Reduction Company. (See Bucknam, Worthy C., assignor.)
Aitken, Andrew W., assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio. Road roller. No. 1,427,751; Aug. 29.
Aktiebolaget Separator. (See Lindgren, Hans O., assignor.)
Aldrich, William T., Chicopee, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Tennis racket. No. 1,427,568; Aug. 29.
Alexander, Andrew, New York, N. Y. Printing machine. No. 1,427,569; Aug. 29.
Allen, George P., Los Angeles, Calif. Universal piston-rod connection. No. 1,427,673; Aug. 29.
American Manganese Steel Company. (See Nichols, Wesley G., assignor.)
American Rubber Company. (See Gibbons, W. A., and Ritter, assignors.)
American Rubber Company. (See Gibbons, Willis A., assignor.)
American Steel and Wire Company of New Jersey, The. (See Howe, James F., assignor.)
American Telephone and Telegraph Company. (See Morris, Robert W., assignor.)
American Telephone and Telegraph Company. (See Cooper, Lester W., assignor.)
American Wood Rim Company, The. (See Lobdell, Edward, jr., assignor.)
American Wood Working Machinery Company. (See MacDowell, G. S., and Perkins, assignors.)
Ames, Adelbert, jr., Tewksbury, Mass. Exhibiting device. No. 1,427,428; Aug. 29.
Amphlett, Herbert P., and E. L. Jones, Victoria, London, assignors to The Hume Pipe and Concrete Construction Company, Limited, London, England. Molding of objects by means of centrifugal force. No. 1,427,508; Aug. 29.
Anderson, Adolphus A., Hagerman, Tex. Tire-pressure meter. No. 1,427,140; Aug. 29.
Anderson, Ernst G. K., assignor, by mesne assignments, to Appleton Electric Co., Chicago, Ill. Spot lamp. (Reissue.) No. 15,437; Aug. 29.
Anderson, Frank C., Cincinnati, Ohio. Switch stand. No. 1,427,082; Aug. 29.
Anderson, James C., East Orange, N. J., assignor to Varley Duplex Magnet Company. Winding machine. No. 1,427,569; Aug. 29.
Anderson, Per A., New York, N. Y. Brake. No. 1,427,084; Aug. 29.
Appleby, William H., Windsor, Ontario, Canada. Door-latch device. No. 1,427,252; Aug. 29.
Appleby, William H., Toronto, Ontario, Canada. Bolt fastener. No. 1,427,253; Aug. 29.
Appleton Electric Co. (See Anderson, Ernst G. K., assignor.)
Arcade Manufacturing Company. (See Tscherning, Henry, assignor.)
Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co., Inc., New York, N. Y. Delivery mechanism for envelope-making machines. No. 1,427,083; Aug. 29.
Austin, Bascom O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,427,342; Aug. 29.
Austin, Adelbert, Greenwood, N. Y. Resilient vehicle wheel. No. 1,427,570; Aug. 29.
Avery, William, Foxboro, Mass. Taper attachment for lathes. No. 1,427,510; Aug. 29.
Ayala, José A., Caracas, Venezuela. Automobile headlight. No. 1,427,085; Aug. 29.
Babcock, Milton F., Buffalo, N. Y. Airplane. No. 1,427,086; Aug. 29.
Baer, Richard, New York, N. Y. Collar. No. 1,427,752; Aug. 29.
Baird, George O., Shreveport, La. Mud shoe. No. 1,427,571; Aug. 29.
Baker, Percy J., Malvern, Pa. Chain fastener. No. 1,427,572; Aug. 29.
Baker-Perkins Manufacturing Corporation. (See Eggert, Gustav B., assignor.)
Balaguer, Andres, Marianao, Habana, Cuba. Vehicle wheel. No. 1,427,429; Aug. 29.
Ballard, William P., and W. D. Perry, Imbler, Oreg. Cabinet ironing board. No. 1,427,343; Aug. 29.
Bannigan, John P., assignor of two-thirds to F. B. Adams and D. J. Goldstein, Utica, N. Y. Letter-reproducing device. No. 1,427,254; Aug. 29.
Bangs, Chester T., Chicago, Ill. Poppet valve. (Reissue.) No. 15,438; Aug. 29.
Barbet, Emile A., Paris, France. Distilling and rectifying column. No. 1,427,430; Aug. 29.
Barclay, William G., assignor to E. B. Thelin, Chicago, Ill. Weather-protecting ring for street lamps. No. 1,427,344; Aug. 29.
Barsch, Wilhelm, Lucerne, Switzerland. Artificial bait. No. 1,427,147; Aug. 29.
Bartle, George, S. Glickman, and L. Jacovitz, New York, N. Y. Fountain pen. No. 1,427,711; Aug. 29.
Baruch, Sydney N., San Francisco, Calif. Electric-circuit-protecting device. No. 1,427,255; Aug. 29.
Bashlioum, Harrison C. (See Gruber, P., and Bashlioum.)
Bashore, Louis L. S., Marine City, Mich. Chalk holder. No. 1,427,712; Aug. 29.
Bassett, Robert N., Company. (See Calligan, William L., assignor.)
Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,427,345; Aug. 29.
Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,427,346; Aug. 29.
Bausman, Alonzo L., assignor to National Equipment Company, Springfield, Mass. Motor support. No. 1,427,713; Aug. 29.
Bauder, John, Cincinnati, Ohio. Can holding and sealing device. No. 1,427,347; Aug. 29.
Beardsley & Piper Company, The. (See Beardsley, E. O., and Piper, assignors.)
Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, assignors to The Beardsley & Piper Company, Chicago, Ill. Molding apparatus for founding. No. 1,427,348; Aug. 29.
Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, assignors to The Beardsley & Piper Company, Chicago, Ill. Filling molds for founding. No. 1,427,349; Aug. 29.
Beck, William A., assignor to St. Mary College, Society of Mary, Province of Cincinnati, Dayton, Ohio. Illuminating device for microscopes. No. 1,427,714; Aug. 29.
Bell, Harvey W., Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del. Spring suspension. No. 1,427,185; Aug. 29.
Bell, Harvey W., Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del. Spring connection. No. 1,427,186; Aug. 29.
Beloyt Corporation, The. (See Bell, Harvey W., assignor.)
Benda, Louis, Mainkur, near Frankfort-on-the-Main, Germany, assignor to Leopold Cassella & Co. Gesellschaft mit beschrankter Haftung. Compound of the acridine series and making the same. No. 1,427,431; Aug. 29.
Benda, Louis, Mainkur, near Frankfort-on-the-Main, Germany, assignor to Leopold Cassella & Co. Gesellschaft mit beschrankter Haftung. Acridinium compound and making the same. No. 1,427,432; Aug. 29.
Berg, Edgar A., Grand Forks, N. Dak. Automobile wheel. No. 1,427,433; Aug. 29.
Berger, Dellno, Madison Township, Franklin County, Ohio. Air brake. No. 1,427,715; Aug. 29.
Berendes, Rudolf. (See Weyland, H., Hahl, and Berendes.)
Best, Percy H. (See Wilson, E. R., and Best.)
Bethenod, Joseph, Paris, France. Radiotelegraphic coupling. No. 1,427,350; Aug. 29.
Birgbauer, Conrad, Detroit, Mich. Wheel dresser. No. 1,427,573; Aug. 29.
Billington, John E., Altrincham, assignor to Linotype and Machinery Limited, London, England. Distributing mechanism of typographical composing and casting machines. No. 1,427,511; Aug. 29.
Bittel, Martin G. (See Furness, R., and Bittel.)
Blanchard, Frederick C., assignor to Detroit Lubricator Company, Detroit, Mich. Valve. No. 1,427,256; Aug. 29.
Blaney, William T., Peterborough, Ontario, Canada. Dust collector. No. 1,427,674; Aug. 29.

Bleecker, Warren F., assignor to The Tungsten Products Company, Boulder, Colo. Reducing tungstic oxide to tungsten metal. No. 1,427,187; Aug. 29.

Blublaze Motor Specialties Corp. (See Holm, John A., assignor.)

Bluhm, Charles A., Michigan City, Ind. Train-pipe coupling. No. 1,427,716; Aug. 29.

Bober, Charles. (See Walicki, L., and Bober.)

Bock Bearing Company, The. (See Close, Lyman W., assignor.)

Bohdanovicz, Casimir. (See Gierymski, L. C., and Bohdanovicz.)

Bohri, Frederick C., Los Angeles, Calif. Washboard clamp. No. 1,427,434; Aug. 29.

Boldt, Herbert A., Buffalo, N. Y. Street-cleaning apparatus. No. 1,427,188; Aug. 29.

Boobar, Emma, Minneapolis, Minn. Corset with abdominal support. No. 1,427,087; Aug. 29.

Borg & Beck Company, The. (See Nelson, Gustave C., assignor.)

Bostic, John L., Wainwright, assignor of one-half to Invader Oil Corporation, Muskogee, Okla. Combined cup protector and casing cleaner for pump plungers. No. 1,427,435; Aug. 29.

Boston Pressed Metal Company. (See Needham, William H., assignor.)

Bourgeois, Victor L. J., assignor of one-half to N. Dubois, Montreal, Quebec, Canada. Loading and unloading apparatus for trucks. No. 1,427,189; Aug. 29.

Bowen, Jenkin W., S. M. Hart, and J. E. Bowen, Pueblo, Colo. Hydroaeroplane. No. 1,427,257; Aug. 29.

Bowen, John E., et al. (See Bowen, J. W., Hart, and Bowen.)

Bowler, Frank W., Chicago, Ill. Reversible window. No. 1,427,088; Aug. 29.

Bowman, Walter H., assignor to Goldsmith Bros. Smelting & Refining Co., Chicago, Ill. Container for mercury. No. 1,427,351; Aug. 29.

Bradley, Walter E. F., Nyack, N. Y. Electric-furnace construction. No. 1,427,436; Aug. 29.

Branch, Oscar. (See Smith, Edwin L., assignor.)

Brandstetter, Josef, Rochester, Minn. Automatic stop for talking machines. No. 1,427,717; Aug. 29.

Braun, Harry L., Toronto, Ontario, Canada. Waxer and polisher. No. 1,427,574; Aug. 29.

Brenkert, Joseph W., and K. S. Brenkert, Detroit, Mich. Picture-projecting machine. No. 1,427,575; Aug. 29.

Brenkert, Karl S. (See Brenkert, Joseph W. and K. S.)

Breuer, Peter, assignor of one-half to A. A. Jenss, Milwaukee, Wis. Paper-drying machine. No. 1,427,437; Aug. 29.

Brickman, Emil O., Chicago, Ill., assignor to Illinois Meat Company. Prepared meats. No. 1,427,438; Aug. 29.

Britton, Helen S., Castleton Hill, N. Y. Kitchen utensil. No. 1,427,439; Aug. 29.

Brockmiller, Frederick W. A., St. Petersburg, Fla. Faucet for soda fountains. No. 1,427,148; Aug. 29.

Brooks, J. B., and Company Limited. (See Lawrence, Arthur H., assignor.)

Brooks, William G., Chicago, Ill., and L. G. Riley, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of control. No. 1,427,352; Aug. 29.

Brown Company. (See Richter, George, assignor.)

Brown, Bernard G. (See Fugitt, Forrest, assignor.)

Brown, Francis A. J., Clifton England. Pump and the like. No. 1,427,512; Aug. 29.

Brown, Garnet C., Dayton, assignor to The Willys Overland Company, Toledo, Ohio. Lubricating system. No. 1,427,190; Aug. 29.

Brown, Peter, Hampton, Va. Ice-cream-cone carrier. No. 1,427,440; Aug. 29.

Brown, Phelps, Springfield, Mass. Actuating mechanism for magnetos. No. 1,427,718; Aug. 29.

Bruck, Herman F., Galion, Ohio. Attachment for food grinders. No. 1,427,719; Aug. 29.

Brunswick Kroeschell Company. (See Couch, Frederick F., assignor.)

Brunswick Kroeschell Company. (See Jones, Walter, assignor.)

Bryant, Stephen O., Bethany, Mo. Post and brush puller. No. 1,427,576; Aug. 29.

Bucknam, Worthy C., Jersey City, N. J., assignor, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y. Pressure regulator. No. 1,427,191; Aug. 29.

Buchner, Max, Hanover-Kleefeld, Germany. Fixing synthetical nitric acid. No. 1,427,441; Aug. 29.

Budd, Edward G., and J. Ledwinka, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Annealing metal. No. 1,427,753; Aug. 29.

Budd, Edward G., Manufacturing Company. (See Budd, E. G., and Ledwinka, assignors.)

Budd Wheel Company. (See Ledwinka, Joseph, assignor.)

Buffalo-Springfield Roller Company, The. (See Aitken, Andrew W., assignor.)

Bugbee, Lucian W., Indianapolis, Ind. Bifocal lens. No. 1,427,577; Aug. 29.

Bugbee, Lucian W., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind. Trifocal lens and making the same. No. 1,427,192; Aug. 29.

Burnes, Julius P. (See Mahon, T. C., and Burnes.)

Burnette, Walter W. H., Fillmore, assignor of one-half to R. F. Fitz, Los Angeles, Calif. Automatic sucker-rod elevator. No. 1,427,675; Aug. 29.

Burns, Frank L., and F. J. Tessin, Three Rivers, Mich. Wire or cable coupling. No. 1,427,258; Aug. 29.

Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Axle for motor vehicles. No. 1,427,089; Aug. 29.

Burt, Leslie N. (See Richards, G., Burt, and Freeborn.)

Burton, Charles S., et al. (See Clark, Melville, assignor.)

Burton, Frederick A., New York, N. Y. Bottle cap. No. 1,427,259; Aug. 29.

Byron, Orra E., Louisville, Ky. Trailer steering gear. No. 1,427,513; Aug. 29.

Caligan, William L., Waterbury, assignor to Robert N. Passett Company Inc., Derby, Conn. Bag lock. No. 1,427,353; Aug. 29.

Callebert, Alfonse, assignor to Rex Machine Tool Co., Jackson, Mich. Cylinder-reaming tool. No. 1,427,514; Aug. 29.

Callsen, Türgen. (See Willstätter, R., Duisberg, and Callsen.)

Cameragraph Company. (See Jones, F. E., and Schwab, assignors.)

Cameron, Gordon, Wollaston, assignor to S. B. Condit, Jr., Brookline, Mass. Oil switch. No. 1,427,442; Aug. 29.

Campbell, Charles W. R., Germiston, and F. G. A. Roberts, Parktown, Johannesburg, Transvaal, South Africa. Production of color pictures. No. 1,427,578; Aug. 29.

Campbell, Ronald E., Columbia, S. C. Stove. No. 1,427,354; Aug. 29.

Candee, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,427,355; Aug. 29.

Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,427,356; Aug. 29.

Capell, Western L., Omaha, Nebr. Iodine fumigator. No. 1,427,515; Aug. 29.

Capital City Chair Company. (See Croft, John L., assignor.)

Carlon, Timothy. (See Gibbons, John W., assignor.)

Carman, Frank V., Oakland, Calif. Railway-tie-adzing machine. No. 1,427,516; Aug. 29.

Carter, Robert D., Broadheath, England, assignor to Linotype and Machinery Limited, London, England. Distributing mechanism of typographical composing and casting machines. No. 1,427,517; Aug. 29.

Cary Manufacturing Co. (See Cary, Spencer C., assignor.)

Cary, Spencer C., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Bundled wire. No. 1,427,518; Aug. 29.

Cary, Spencer C., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Bundled wire. No. 1,427,519; Aug. 29.

Case, Arthur F., assignor to Wellman-Seaver-Morgan Company, Cleveland, Ohio. Car blocking for car dumper cradles. No. 1,427,090; Aug. 29.

Case, Arthur F., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Fueling barge. No. 1,427,691; Aug. 29.

Case, J. I., Threshing Machine Company. (See Caughey, Robert C., assignor.)

Caswell, Herbert M., Oatman, Ariz. Wheelbarrow handle. No. 1,427,720; Aug. 29.

Catlin, Mildred H., Minneapolis, Minn. Supplemental clothes hanger. No. 1,427,260; Aug. 29.

Caughey, Robert C., Dixon, Ill., assignor, by mesne assignments, to J. I. Case Threshing Machine Company, Racine, Wis. Plow. No. 1,427,357; Aug. 29.

Cessna, Ira B., Hoisington, Kans. Trailer hitch for automobiles. No. 1,427,579; Aug. 29.

Champagne, Henry J., Pittsfield, Mass. Removable heel. No. 1,427,261; Aug. 29.

Charriot, Joseph, Paris, France. Wheelbarrow. No. 1,427,262; Aug. 29.

Chemische, Fabrik Griesheim-Elektron. (See Cramer, Carl, assignor.)

Chester Machine Co. (See Augustine, Addison E., assignor.)

Chevalier, John F. (See Griswold, Albert A., assignor.)

Chorny, Steve. (See Rickey, Steve, assignor.)

Christenson, Martin O., Minneapolis, Minn. Noiseless gear wheel. No. 1,427,721; Aug. 29.

Christman, George L., Swissvale, and J. B. MacNeill, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,427,358; Aug. 29.

Christman, George L., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Knife-blade switch. No. 1,427,359; Aug. 29.

Christopher, Arthur B., St. Louis, Mo., assignor, by mesne assignments, to Metallic Industries, Inc. Swiveling teeter. No. 1,427,722; Aug. 29.

Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Single-phase dynamo-electric machine of the induction type. No. 1,427,360; Aug. 29.

Cincinnati Frog & Switch Company, The. (See Henke, William F., assignor.)

Clapp, Albert L. and C. B., Danvers, Mass. Paper felt. No. 1,427,263; Aug. 29.

Clapp, Chester B. (See Clapp, Albert L. and C. B.)

Clark, Elizabeth B., executrix. (See Clark, Melville.)

Clark Equipment Company. (See Burrows, Robert J., assignor.)

Clark, Melville, deceased; E. B. Clark, executrix, assignor, by mesne assignments, of one-half to W. A. Taylor, Chicago, and one-half to C. S. Burton, Oak Park, Ill. Vehicle wheel tire. No. 1,427,092; Aug. 29.

Clausen, Peter B., New Lisbon, Wis. Insect exterminator. No. 1,427,723; Aug. 29.

Clay, James R., Blundellsands, England. Sling for handling cargo and other goods. No. 1,427,724; Aug. 29.

Clear, Charles J., Vancouver, Wash. Grader. No. 1,427,264; Aug. 29.

Clear, Charles J., Vancouver, Wash. Filling machine. No. 1,427,265; Aug. 29.

Clever, Simon E. (See Edens, R. W., and Clever.)

Close, Lyman W., assignor to The Bock Bearing Company, Toledo, Ohio. Roller bearing. No. 1,427,520; Aug. 29.

Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Upsetting dies. No. 1,427,521; Aug. 29.

Coach Builders Hardware Company. (See Mastenbrook, Henry J., assignor.)

Cobb, Jesse, Laredo, Tex. Crate. No. 1,427,193; Aug. 29.

Cochrane, Robert L., Chicago, Ill., assignor to National Lock Washer Company, Newark, N. J. Nut lock. No. 1,427,194; Aug. 29.

Coleman, Robert L. (See Vinson, James G., assignor.)

Collins, Charles W., Seattle, Wash. Clothes-drying machine. No. 1,427,580; Aug. 29.

Condit, Sears B., jr. (See Cameron, Gordon, assignor.)

Cook, David A., Lamont, Iowa. Milk-cooling device. No. 1,427,443; Aug. 29.

Cook, Walter G., Watertown, Mass. Artificial comb and producing same. No. 1,427,149; Aug. 29.

Cooper, Lester W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Switchboard call-signal apparatus and circuits. No. 1,427,725; Aug. 29.

Coppus Engineering and Equipment Company. (See Coppus, Frans H. C., assignor.)

Coppus, Frans H. C., assignor to Coppus Engineering and Equipment Company, Worcester, Mass. Turbine-driven blower. No. 1,427,150; Aug. 29.

Copell, Steven C., Los Angeles, Calif. Measuring attachment for sewing machines. No. 1,427,676; Aug. 29.

Couch, Frederick F., assignor, by mesne assignments, to Brunswick-Kroeschell Company, New Brunswick, N. J. Knuckle-joint connection. No. 1,427,361; Aug. 29.

Cox, Cumming. (See Martin-Wyatt, assignor.)

Cox, Kenwrick C., Norfolk Island, South Pacific. Moving coil relay. No. 1,427,026; Aug. 29.

Cozzens, Fred H., New York, N. Y. Axle mounting for vehicles. No. 1,427,362; Aug. 29.

Cramer, Carl, Zurzach, Switzerland, assignor to Firm: Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Producing magnesium carbonate. No. 1,427,444; Aug. 29.

Crane & Breed Manufacturing Company. (See Kallmeyer, Frank J., assignor.)

Croft, John L., assignor to Capital City Chair Company, Atlanta, Ga. Reed furniture. No. 1,427,581; Aug. 29.

Culbertson, Charles B., Pasadena, Calif. Reversible plow. No. 1,427,677; Aug. 29.

Cummings, Frank D., Los Angeles, Calif. Illuminated advertising device. No. 1,427,678; Aug. 29.

Cumpston, James H., Dallas, Tex. Gun-cleaning device. No. 1,427,582; Aug. 29.

Curle, George L., Minneapolis, Minn. Means for casting italic type. No. 1,427,363; Aug. 29.

Curran, Oscar R., assignor of one-fourth to W. G. Merrifield and one-fourth to M. L. Merrifield, Garden City, Mo. Apparatus for icing refrigerators and ice boxes. No. 1,427,445; Aug. 29.

Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)

Dabney, Lillian M., Rosedale, Kans. Gauge for marking and cutting strips. No. 1,427,266; Aug. 29.

Dallimore, George W., Oakland, Calif. Railway tie. No. 1,427,522; Aug. 29.

Daly, Alvin D., Tucson, Ariz. Gate for covered vehicles. No. 1,427,195; Aug. 29.

Daniel, Paul, Boundbrook, N. J. Electric heater. No. 1,427,094; Aug. 29.

Davis, George R., Marlboro, Mass. Floor cart. No. 1,427,583; Aug. 29.

Davis, James H. (See Gibbs, M., and Davis.)

Davis, Orin C., Manistee, Mich. Jar closure. No. 1,427,151; Aug. 29.

De Camp, Job, Van Wert Co., near Grover Hill, Ohio. Farm-tractor wheel. No. 1,427,095; Aug. 29.

Decks, Hugh A., Moose Jaw, Saskatchewan, Canada. Means for filtering gasoline. No. 1,427,196; Aug. 29.

Deere & Company. (See Silver, Walter H., assignor.)

De Lavaud, Dimitri Sensaud, New York, N. Y. Topographic recorder. No. 1,427,267; Aug. 29.

De Lavel Steam Turbine Company. (See Waller, Carl R., assignor.)

Delaware Chemical Engineering Co. (See du Pont, Francis I., assignor.)

Denison, Julian F., New Haven, Conn. Vehicle wheel drive. No. 1,427,584; Aug. 29.

Denoël, Joseph, Lemberg, Belgium. Decantation apparatus. No. 1,427,446; Aug. 29.

Detroit Lubricator Company. (See Blanchard, Frederick C., assignor.)

Detroit Range Boiler & Steel Barrel Company. (See Moore, George A., assignor.)

Detroit Stove Works. (See Miller, Robert H., assignor.)

Deutsch Luxemburgische Bergwerks- und Hütten Aktiengesellschaft. (See Hilpert, Siegfried, assignor.)

Dobrzanski, John, Mollenawer, Pa. Wrench. No. 1,427,364; Aug. 29.

Dodds, Redus D., Houston, Tex. Core-taking device. No. 1,427,268; Aug. 29.

D'Olier, Henry, jr., Bridgeport, Conn. Gauge for electric lamps and accessories. No. 1,427,586; Aug. 29.

Dornier, Claudius, assignor of one-half to Dornier Metallbauten Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Supporting plane. No. 1,427,447; Aug. 29.

Dornier, Claudius, Friedrichshafen, assignor to Zeppelinwerke Lindau, Gesellschaft mit beschrankter Haftung, Lindau-Reutin, Germany. Flying-machine cover. No. 1,427,448; Aug. 29.

Douglas, Elizabeth J., Crete, Nebr. Vehicle trailer. No. 1,427,365; Aug. 29.

Doyle, Ella W., Atlanta, Ga. Shovel or scoop. No. 1,427,523; Aug. 29.

Drake, Edward F., Danbury, Conn. Flame spreader. No. 1,427,096; Aug. 29.

Drake, William L. (See Wear, W. M., and Drake.)

Draper Corporation. (See Hedler, Henry J., assignor.)

Draper Corporation. (See Rhoades, Alonzo E., assignor.)

Draper Corporation. (See Stafford, Alfred E., assignor.)

Draper Corporation. (See Stimpson, Edward S., assignor.)

Dry Hand Mop Company. (See Kenner, Duncan, assignor.)

Dubois, Joseph. (See Lambert, A. H., and Dubois.)

Dubois, Nazaire. (See Bourgeois, Victor L. J., assignor.)

Duisberg, Walther. (See Willstätter, R., Duisberg, and Callsen.)

Du Laney, James A. (See Lamping, G. B., and Du Laney.)

Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Lyeing section of peeling machines. No. 1,427,269; Aug. 29.

Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Peeling apparatus and process. No. 1,427,270; Aug. 29.

Dunkley Company. (See Dunkley, Samuel J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Horton, George P., assignor.)

Du Pont, Francis I., assignor to Delaware Chemical Engineering Co., Wilmington, Del. Liquid-fuel burner. No. 1,427,449; Aug. 29.

Echard, Marcel, Neuilly-sur-Seine, France. Valve gear with rotary valves. No. 1,427,726; Aug. 29.

Edens, Robert W., and S. E. Clever, Fullerton, Calif. Apparatus for separating cemented well casings. No. 1,427,524; Aug. 29.

Edmunds & Jones Corporation. (See Preston, Edward S., assignor.)

Egan, George F., Chicago, Ill. Seam-guilding presser foot. No. 1,427,197; Aug. 29.

Eger, Ernst, Detroit, Mich., assignor to Morgan & Wright, Mixing machine. No. 1,427,271; Aug. 29.

Eger, Ernst, Detroit, Mich., assignor to Morgan & Wright, Mixing machine. No. 1,427,272; Aug. 29.

Eggert, Gustav B., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Apparatus for handling bread. No. 1,427,679; Aug. 29.

Endlich, Edward P., Cumberland, Wis. Hose draining and drying reel. No. 1,427,273; Aug. 29.

English, Andrew J., assignor to G. J. Uckotter, Cincinnati, Ohio. Valve. No. 1,427,680; Aug. 29.

Equitable Trust Company of New York, trustee. (See Kaufmann, F. J., and Marsden, assignors.)

Evans, John E., assignor of one-half to E. H. Goodwin, Los Angeles, Calif. Oil-gauge valve. No. 1,427,681; Aug. 29.

Evers, John F., Denison, Iowa. Portable stanchion. No. 1,427,274; Aug. 29.

Ewald, Arno A., Oakfield, Wis. Air-supply station. No. 1,427,450; Aug. 29.

Fageol, Rollie B., Oakland, Calif. Automobile bumper. No. 1,427,275; Aug. 29.

Fairless, Victor H., Trenton, Tenn. Soft-collar support. No. 1,427,727; Aug. 29.

Fairless, Victor H., Trenton, Tenn. Cotton and pea picker sack. No. 1,427,728; Aug. 29.

Farbenfabriken vorm. Friedr. Bayer and Co. (See Weyland, H., Hahl, and Berendes, assignors.)

Farbenfabriken vorm. Friedr. Bayer and Co. (See Willstätter, R., Duisberg, and Callsen, assignors.)

Feederle, Fidel, assignor to Waffenfabrik Mauser, Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Automatic pistol. No. 1,427,097; Aug. 29.

Feldblet, Herman L., and J. R. O'Donnell, New York, N. Y. Stair construction. No. 1,427,276; Aug. 29.

Felten, Charles H., West Hoboken, N. J. Disposal can. No. 1,427,525; Aug. 29.

Fenzl, R. A. (See Kaschtofsky, Alvis, assignor.)

Ferguson, George B., New Bedford, Mass. Hinged-shingle strip. (Reissue.) No. 15,439; Aug. 29.

Fetter, Edward, Baltimore, Md. Self-healing tube. No. 1,427,277; Aug. 29.

Fetter, Edward, Baltimore, Md. Self-healing tube. No. 1,427,278; Aug. 29.

Fich, Alfred B. A., Copenhagen, Denmark. Metal container and the like. No. 1,427,152; Aug. 29.

Filonowicz, Victor, Saginaw, Mich. Hinge. No. 1,427,279; Aug. 29.

Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-dumping vehicle. No. 1,427,451; Aug. 29.

Finckh, Fritz, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Vehicle discharging from the bottom. No. 1,427,452; Aug. 29.
Fisher, Charles V., Muncie, Ind. Motor stand. No. 1,427,153; Aug. 29.
Fischer, Howard L., St. Paul, Minn. Pencil. No. 1,427,729; Aug. 29.
Fitz, Robert F. (See Burnette, Walter W. H., assignor.)
Fleisher, W. L., & Co. (See Lissauer, Adolph W., assignor.)
Fleming, James C., Denver, Colo. Scaffold hanger. No. 1,427,453; Aug. 29.
Fletcher, Elmer, Chicago, Ill., assignor to Fletcher-Wickes Company. Sound box. No. 1,427,198; Aug. 29.
Fletcher-Wickes Company. (See Fletcher, Elmer, assignor.)
Flintkote Company, The. (See Harris, William A., assignor.)
Foote, Isaac O., Sidney, Iowa Lotion. No. 1,427,199; Aug. 29.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Apparatus for electrical precipitation. No. 1,427,370; Aug. 29.
Fortescue, Charles L., Pittsburgh, and F. C. Hanker, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,427,367; Aug. 29.
Fortescue, Charles L., and J. B. MacNeill, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,427,368; Aug. 29.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,427,369; Aug. 29.
Fortier, Edmond J., Kankakee, Ill. Automatic valve. No. 1,427,098; Aug. 29.
Forsyth, George H., Chicago, Ill. Disk wheel. No. 1,427,366; Aug. 29.
Fournier, Frederick, San Francisco, Calif. Window fastener or latch. No. 1,427,730; Aug. 29.
Frahm, Hermann G. C., Brahmsallee, Hamburg, Germany. Marine vessel. No. 1,427,526; Aug. 29.
Franco Electric Corporation. (See Manson, Leon B., assignor.)
Frank, August C., Hayward, Calif. Vacuum-cleaner nozzle. No. 1,427,200; Aug. 29.
Freeborn, James E. (See Richards, G., Burt, and Freeborn.)
Freuler, Herbert F., and C. L. Morrill, Berkeley, Calif., assignors to Interstate Fibre Company, Ltd., Honolulu, Hawaii. Decorticating machine. No. 1,427,201; Aug. 29.
Friedman, Louis, Muncie, Ind., and D. Wallace, Tulsa, Okla. Collapsible expansion gasket. No. 1,427,099; Aug. 29.
Fried. Krupp Aktiengesellschaft. (See Finckh, Fritz, assignor.)
Fried. Krupp Aktiengesellschaft. (See Lehmann, Karl A., assignor.)
Fried. Krupp Aktiengesellschaft. (See Lorenz, Rudolf, assignor.)
Fried. Krupp Aktiengesellschaft. (See Thun, Hermann, assignor.)
Fugitt, Forrest, assignor of one-half to B. G. Brown, Chillicothe, Mo. Hair clipper. No. 1,427,587; Aug. 29.
Furness, Radclyffe, Jenkintown, and M. G. Bittel, North Glenside, Pa. Liquid-fuel burner. No. 1,427,202; Aug. 29.
Gahm, Frank, Streator, Ill. Automobile seat. No. 1,427,280; Aug. 29.
Garbarini, André, Courbevoie, Seine, France. Radiator for gas heating by incandescence. No. 1,427,371; Aug. 29.
Garratt, Walter A., Covington, Ky. Pneumatic horn. No. 1,427,281; Aug. 29.
Gates, Major E., Terra Cotta, Ill. Producing ornamental surfaces. No. 1,427,454; Aug. 29.
Gates, Major E., Terra Cotta, Ill. Fluid-controlling device. No. 1,427,455; Aug. 29.
Geering, Heinrich. (See Schwieger, Hedwig, née Klpp, assignor.)
General Electric Company. (See Tritle, John F., assignor.)
Gephart, Frank C., assignor to Huyler's, New York, N. Y. Candy making. No. 1,427,527; Aug. 29.
Geraerdts, William, New York, N. Y. Fireproof wall. No. 1,427,372; Aug. 29.
German, Alexander, Akron, Ohio. Core for forming automobile tiles. No. 1,427,528; Aug. 29.
Gervais, Wainwright R., Oak Park, assignor to Variety Fire Door Company, Chicago, Ill. Ventilated fire door. No. 1,427,282; Aug. 29.
Getchell, Benjamin E., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Current-limiting device. No. 1,427,203; Aug. 29.
Gibbons, John W., Merced Falls, assignor of one-half to T. Carlon, La Grange, Calif. Flytrap for use with live stock. No. 1,427,204; Aug. 29.
Gibbons, Willis A., New York, N. Y., assignor to American Rubber Company. Working quick-curing compounds. No. 1,427,283; Aug. 29.
Gibbons, Willis A., New York, and H. W. Ritter, Brooklyn, N. Y., assignors to American Rubber Company. Permeable sheet material and making same. No. 1,427,754; Aug. 29.
Gibbs, McLain, and J. H. Davis, Everett, Wash. Coin-controlled air valve. No. 1,427,529; Aug. 29.
Gierymski, Leopold C., and C. Bohdanovicz, New Britain, Conn. Rope or cable connector and grip. No. 1,427,284; Aug. 29.
Giffen, Burr E., assignor to The Martin V. Kelley Company, New York, N. Y. Producing pictures with exaggerated perspective. No. 1,427,456; Aug. 29.
Gilbert, James E., and G. W. Harris, assignors to Gilbert Slip-Sheeting Machine Company, Chicago, Ill. Means for steadying paper carried by smut-sheet machines. No. 1,427,530; Aug. 29.
Gilbert, Oliver C., New York, N. Y. Working metals. No. 1,427,100; Aug. 29.
Gilbert Slip-Sheeting Machine Company. (See Gilbert, J. E., and Harris, assignors.)
Gilbert, Oliver C., New York, N. Y. Working metals. No. 1,427,101; Aug. 29.
Gill, Charles H., Chicago, Ill. Multiple sound-record tablet. No. 1,427,373; Aug. 29.
Gillespie, Samuel H., Morristown, N. J. Centrifugal decorticator. No. 1,427,457; Aug. 29.
Gillette Safety Razor Company. (See Nickerson, William E., assignor.)
Glass, Ernest, Reading, Pa. Gearing. No. 1,427,374; Aug. 29.
Glass, Robert E., Columbus, Ohio. Burial crypt. No. 1,427,458; Aug. 29.
Glickman, Samuel. (See Bartle, G., Glickman, and Jacovitz.)
Goebner, August K., Clay Township, St. Joseph County, Ind. Clutch-pedal lock. No. 1,427,285; Aug. 29.
Goldsmith Bros. Smelting & Refining Co. (See Bowman, Walter H., assignor.)
Goldstein, David J., et al. (See Bannigan, John P., assignor.)
Goodman Manufacturing Company. (See Segler, Albert H., assignor.)
Goodwin, Earl H. (See Evans, John E., assignor.)
Gordon, Thomas, Perth, Western Australia, Australia. Rear-drive chassis for motor cycles. No. 1,427,731; Aug. 29.
Gove, Ransom E., Fond du Lac, Wis. Heater support. No. 1,427,375; Aug. 29.
Grace, Henry S., assignor to J. J. McDonald, San Francisco, Calif. Trammel point. No. 1,427,376; Aug. 29.
Graham, Emma E., Seattle, Wash. Cork substitute and manufacture. No. 1,427,682; Aug. 29.
Grant, Hugo B., Chicago, Ill. Piston. No. 1,427,205; Aug. 29.
Graton & Knight Manufacturing Company. (See Hawkesworth, James A., assignor.)
Graves, Glenn F., Centralia, Kans. Oil pan. No. 1,427,377; Aug. 29.
Graves, Robert E., Houston, Tex. Dental handpiece. No. 1,427,286; Aug. 29.
Greenewald, Eugene L., Washington, D. C. Closure. No. 1,427,683; Aug. 29.
Greenlson, Nelson J., New York, N. Y. Combination furniture. No. 1,427,588; Aug. 29.
Greenlson, Nelson J., New York, N. Y. Bicycle propelling means. No. 1,427,589; Aug. 29.
Green, John E., Johnstown, Pa. Sand-blast apparatus. No. No. 1,427,206; Aug. 29.
Grieves, Albert, Springfield, Ohio, assignor, by mesne assignments, to International Harvester Company. Lever. No. 1,427,684; Aug. 29.
Griswold, Albert A., Providence, R. I., assignor of one-half to J. F. Chevalier, Brookline, Mass. Flexible shingle. No. 1,427,154; Aug. 29.
Griswold, Albert A., Providence, R. I., assignor of one-half to J. F. Chevalier, Brookline, Mass. Flexible shingle. No. 1,427,732; Aug. 29.
Griswold, George G., jr. (See Sheridan, G. E., and Griswold.)
Groff, Antonio, Ridgway, Colo. Hay cutter. No. 1,427,733; Aug. 29.
Grossard, Stanley D., Blair, Nebr. Automobile direction signal. No. 1,427,102; Aug. 29.
Gruber, Paul, and H. C. Bashloum, Pittsburgh, Pa.; said Bashloum assignor to said Gruber. Composition of matter produced from corncobs. No. 1,427,378; Aug. 29.
Gruber, William G., Milwaukee, Wis. Combined letter sheet and envelope. No. 1,427,590; Aug. 29.
Gruendler, Gustav J., Clayton, Mo. Refrigerator. No. 1,427,207; Aug. 29.
Grzesko, Louis, Auburn, N. Y. Rail joint. No. 1,427,287; Aug. 29.
Guernsey, Charles C., East Barrington, N. H. Phonographic apparatus. No. 1,427,734; Aug. 29.
Gussett, John, Bridgeport, Conn. Collar fastener. No. 1,427,531; Aug. 29.
Haenicke, Arthur, Berlin-Tempelhof, assignor to C. W. Schulz, Berlin, Germany. Producing small form pieces, especially buttons, from calcined gypsum, cement, or the like. No. 1,427,103; Aug. 29.
Hafertep, Theodore B., Chicago, Ill. Belt buckle. No. 1,427,591; Aug. 29.
Hahl, Hans. (See Weyland, H., Hahl, and Berendés.)
Hales, Henry W., Ridgewood, N. J. Telescope. No. 1,427,592; Aug. 29.
Hall, Thrasher, Detroit, Mich. Garment support. No. 1,427,104; Aug. 29.
Hambrock, Carl W., Fort Wayne, Ind. Lamp bracket for bicycles. No. 1,427,532; Aug. 29.
Hammel, George E. (See Voltz, Daniel W. and E. C., and Hammel.)
Handlan, Alexander H., jr., St. Louis, Mo. Hose coupling. No. 1,427,105; Aug. 29.

Handlan-Buck Manufacturing Company. (See Rolfes, George H., assignor.)
Hanker, Frederic C. (See Fortescue, C. L., and Hanker.)
Hapgood, Charles W., Boston, Mass. Refrigerating apparatus. No. 1,427,379; Aug. 29.
Happy, John L., Chicago, Ill. Combination table. No. 1,427,208; Aug. 29.
Harberd, Edmund H (See Sonsthagen, A., and Harberd.)
Harkness, Bertram G. A., and H. F. Vosseler, Stratford, Taranaki, New Zealand. Oscillating vacuum pump. No. 1,427,533; Aug. 29.
Harris, Glenn W. (See Gilbert, J. E., and Harris.)
Harris, William A., Brookline, assignor to The Flintkote Company, Boston, Mass. Built-up roofing. No. 1,427,755; Aug. 29.
Hart, Stanley M., et al. (See Bowen, J. W., Hart, and Bowen.)
Hartley, Joseph S. (See Robbins, F. M., and Hartley.)
Harvey, George E., assignor to Harvey Rim & Wheel Company, Buffalo, N. Y. Disk-wheel construction. No. 1,427,209; Aug. 29.
Harvey Rim & Wheel Company. (See Harvey, George E., assignor.)
Hasburg, John W., Chicago, Ill. Paint package. No. 1,427,288; Aug. 29.
Hasburg, John W., Chicago, Ill. Paint package. No. 1,427,289; Aug. 29.
Hasburg, John W., Chicago, Ill. Paint package. No. 1,427,290; Aug. 29.
Hasty, John B., San Bernardino, Calif., assignor to Lovejoy Tool Works, Chicago, Ill. Jack. No. 1,427,459; Aug. 29.
Haven, Hiram L., Lexington, Mass. Collapsible arbor. No. 1,427,153; Aug. 29.
Hawkesworth, James A., London, England, assignor to The Graton & Knight Manufacturing Company, Worcester, Mass. Power-trasmitting belt. No. 1,427,460; Aug. 29.
Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. No. 1,427,291; Aug. 29.
Hedler, Henry J., Occum, Conn., assignor to Draper Corporation, Hopedale, Mass. Filling, clamping, and parting means for looms. No. 1,427,380; Aug. 29.
Heindl, Stephen O., assignor of one-half to E. Zeitz, Chicago, Ill. Scissors-grinding machine. No. 1,427,735; Aug. 29.
Heller, Jesse B., Wilkinsburg, Pa., assignor, by mesne assignments, to National Motor Control Co. Permutation mechanism. No. 1,427,381; Aug. 29.
Heller, Jesse B., Lakewood, Ohio, assignor to National Motor Control Co. Permutation lock. No. 1,427,382; Aug. 29.
Hemahewski, Albert, Coal Valley, Ill., assignor of one-fifth to E. Shumilo, Neffs, Ohio. Table. No. 1,427,383; Aug. 29.
Henderson, Clark T., Youngstown, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Braking system for printing presses and other machines. No. 1,427,461; Aug. 29.
Henderson, Howard L., Terre Haute, Ind. Bearing alarm. No. 1,427,593; Aug. 29.
Hendricks, Clarence J., Fertile, Minn. Clip. No. 1,427,736; Aug. 29.
Henke, William F., Norwood, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio. Extension-rail clamp. No. 1,427,737; Aug. 29.
Henneking, Carl, Magdeburg, Germany. Wall-climbing device. No. 1,427,384; Aug. 29.
Herbeck, Emil, New York, N. Y. Lamp stand. No. 1,427,462; Aug. 29.
Herdlicka, Robert, Chicago, Ill. Ventilator. No. 1,427,463; Aug. 29.
Herman, Harry W., Cleveland, Ohio. Valve-operating mechanism. No. 1,427,385; Aug. 29.
Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,427,464; Aug. 29.
Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,427,465; Aug. 29.
Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,427,466; Aug. 29.
Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,427,467; Aug. 29.
Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,427,468; Aug. 29.
Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)
Hill, Paul C., Cement, Okla. Rotary core drill for oil wells. No. 1,427,685; Aug. 29.
Hilpert, Siegfried, Bonn-on-the-Rhine, assignor to himself and Deutsch Luxemburgische Bergwerks- und Hütten Aktiengesellschaft, Bochum, Germany. Treatment of waste sulphuric acid. No. 1,427,386; Aug. 29.
Hincher Manufacturing Company. (See Holliday, John F., assignor.)
Hixson, James E., assignor to M. A. Leach, Los Angeles, Calif. Vehicle. No. 1,427,387; Aug. 29.
Hoefflinger, Austin D., assignor to The Standard Parts Company, Cleveland, Ohio. Power tongs. No. 1,427,469; Aug. 29.
Hogan, John J., St. Louis, Mo. Attachment for reclining chairs. No. 1,427,292; Aug. 29.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Platen-carriage mechanism for typewriters. No. 1,427,470; Aug. 29.
Hoke, William E., St. Louis, Mo. Burner construction. No. 1,427,738; Aug. 29.
Holappa, Peter. (See Tanttila, H., and Sorola, assignors.)
Holley, William V., New York, N. Y., assignor to New York Bath Manufacturing Co. Service wagon. No. 1,427,388; Aug. 29.
Holm, John A., Albany, N. Y., assignor to Blublaze Motor Specialties Corp., Long Island City, N. Y. Timer. No. 1,427,594; Aug. 29.
Holmes, Edward. (See Lightner, A. D., and Holmes.)
Holliday, John F., assignor to Hincher Manufacturing Company, Washington, Ind. Folding stepladder stool. No. 1,427,293; Aug. 29.
Hook, Benton A., Escondido, Calif. Apparatus for agitating fluid masses. No. 1,427,210; Aug. 29.
Hooker Electrochemical Company. (See Sherwood, Joseph J., assignor.)
Hoover Company, The. (See Owen, Ernest V., assignor.)
Hopper, Ernest W. (See Sueby, A., jr., and Hopper.)
Horne, Ellwood J., Womelsdorf, Pa. Means for supporting and operating tire-pressure gauges and the like. No. 1,427,389; Aug. 29.
Horton, George D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing butyl alcohol and acetone by fermentation. No. 1,427,595; Aug. 29.
Howe, James F., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Suspension-bridge cable. No. 1,427,471; Aug. 29.
Howgate, Alfred, Keighley, England. Apparatus for use in annealing or otherwise treating metals. No. 1,427,390; Aug. 29.
Huber, Charles C., Rochester, N. Y. Garbage container. No. 1,427,472; Aug. 29.
Hughes, Horace W., Houlton, Me. Roof ladder. No. 1,427,294; Aug. 29.
Hulbert, Ansel C., San Francisco, Calif. Electric water heater. No. 1,427,596; Aug. 29.
Hulfish, David S., Toronto, Ontario, Canada. Automatic telephone switch and system. No. 1,427,473; Aug. 29.
Hume Pipe and Concrete Construction Company, The. (See Amphlett, H. P., and Jones, assignors.)
Hunt, John R., Indianapolis, Ind., assignor to International Moving Picture & Film Company, Nashville, Tenn. Film-feeding means for motion-picture machines. No. 1,427,597; Aug. 29.
Huntoon, Charles F., Chicago, Ill. Brake-beam support. No. 1,427,474; Aug. 29.
Hursh, Newton D. (See Lang, Charles A., assignor.)
Huss, Frank E., and W. W. Momsen, Belleville, Ill. Rail joint. No. 1,427,739; Aug. 29.
Huyler's. (See Gephart, Frank C., assignor.)
Illinois Meat Company. (See Brickman, Emil O., assignor.)
International Harvester Company. (See Grieves, Albert, assignor.)
International Harvester Company. (See Whitcomb, Louie E., assignor.)
International Moving Picture & Film Company. (See Hunt, John R., assignor.)
International Patent Licensing Corporation. (See Peters, William A., assignor.)
Interstate Fibre Company Ltd. (See Freuler, H. F., and Morrill, assignors.)
Invader Oil Corporation. (See Bostic, John L., assignor.)
Irving Drew Company. (See Lloyd, Thomas C., assignor.)
Ishimatsu, Shiro, Los Angeles, Calif. Automobile heater. No. 1,427,475; Aug. 29.
Jaccard, Paul J., New York, N. Y. Safety razor. No. 1,427,686; Aug. 29.
Jackson, Percy T., and G. F. Pickett, Bexley Heath, England. Mechanical toy. No. 1,427,295; Aug. 29.
Jackson, William J., Detroit, Mich. Collapsible bath and dressing table. No. 1,427,598; Aug. 29.
Jacobson, Arthur F., Detroit, Mich. Permutation lock. No. 1,427,106; Aug. 29.
Jacovitz, Leon. (See Bartle, G., Glickman, and Jacovitz.)
Jakubiec, Wojciech, Garfield, N. J. Mechanical toy. No. 1,427,296; Aug. 29.
Jenss, Alfred A. (See Breuer, Peter, assignor.)
Jofeh, John, London, England. Gramophone and like sound-reproducing instrument. No. 1,427,211; Aug. 29.
Johanson, Emil G., Rockford, Ill. Reducing gearing. No. 1,427,599; Aug. 29.
Johnson Automatic Sealer Co. (See Quick, Brunnie W., assignor.)
Johnson, Charles, Minneapolis, Minn. Lumber cut-off machine. No. 1,427,297; Aug. 29.
Johnson Fan Co. (See Johnson, John E., assignor.)
Johnson, John E., De Kalb, assignor to Johnson Fan Co., Chicago, Ill. Disconnectible fan for automobiles. No. 1,427,687; Aug. 29.
Johnson, Lane, Ingram, Pa. Cot. No. 1,427,476; Aug. 29.
Johnson, Robert H., Washington, D. C. Pump. No. 1,427,740; Aug. 29.
Johnson, Thomas H., Philadelphia, Pa. Game. No. 1,427,156; Aug. 29.
Johns, Stuart O., Island Bay, Wellington, assignor to The New Zealand Flusher Company Limited, Wellington, New Zealand. Construction of rotary fan or turbine wheel. No. 1,427,391; Aug. 29.

Jones, Edwin L. (See Amphlett, H. P., and Jones.)
Jones, Frank E., Mission Hills, Kans., and C. A. Schwab, Ferguson, assignors to Cameragraph Company, Kansas City, Mo. Photographic developing and fixing apparatus. No. 1,427,741; Aug. 29.
Jones, Harry H., Holland, Oreg. Pliers. No. 1,427,298; Aug. 29.
Jones Superior Machine Company. (See Walker, Fred G., assignor.)
Jones, Walter J., assignor, by mesne assignments, to Brunswick Kroeschell Company, New Brunswick, N. J. Knuckle-joint connection. No. 1,427,392; Aug. 29.
Jorstad, Osmund M., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Catenary-suspension system. No. 1,427,393; Aug. 29.
Jourdain, Gaston, Paris, France. Warper's creel. No. 1,427,394; Aug. 29.
Justus, Henry W., Napanoch, N. Y. Trap. No. 1,427,600; Aug. 29.
Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Wrench. No. 1,427,601; Aug. 29.
Kaiser, Frank H., Buffalo, N. Y. Film-actuating mechanism for picture machines. No. 1,427,602; Aug. 29.
Kallmeyer, Frank J., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Casket handle. No. 1,427,603; Aug. 29.
Kaplan, Benjamin, New York, N. Y. Waste and vent pipe fitting. No. 1,427,107; Aug. 29.
Kaschtofsky, Alvis, Prague-Smichov, Czecho-Slovakia, assignor of one-half to R. A. Fenzl, Harris County, Tex. Combustion motor. No. 1,427,395; Aug. 29.
Kasley, Alexander T., Swissvale, Pa. Power-developing apparatus. No. 1,427,108; Aug. 29.
Kasson, Mahlon O., Chicago, Ill. Apparatus for vulcanizing rubber articles. No. 1,427,109; Aug. 29.
Kaufmann, Frank J., and W. N. Marsden, Amsterdam, assignors, by mesne assignments, to The Equitable Trust Company of New York, trustee, New York, N. Y. Adherently uniting webs of fabric. No. 1,427,477; Aug. 29.
Kaufmann, Wilhelm. (See Sinkwitz, Rudolf, assignor.)
Keith, Boyd B., Mansfield, Ohio. Toy airship. No. 1,427,396; Aug. 29.
Keller, Ernest, Woodhaven, assignor to National Pneumatic Company, New York, N. Y. Door-controlled locking mechanism for vehicles. No. 1,427,212; Aug. 29.
Keller, William H., Inc. (See Keller, W. H., Maximilian, and Schinkez, assignors.)
Keller, William H., M. Maximilian, and A. Schinkez, assignors to William H. Keller, Inc., Grand Haven, Mich. Fluid-pressure motor. No. 1,427,157; Aug. 29.
Kelley, Martin V., Company, The. (See Giffen, Burr E., assignor.)
Kelly-Springfield Tire Company. (See McClenathen, Robert, assignor.)
Kelly-Springfield Tire Company. (See Sherwood, Frederick W., assignor.)
Kennedy, Gussie M. (See Kennedy, Homer R., assignor.)
Kennedy, Homer R., assignor to G. M. Kennedy, Los Angeles, Calif. Fender rim and wired-edge tool and the like. No. 1,427,299; Aug. 29.
Kennedy, Homer R., assignor to G. M. Kennedy, Los Angeles, Calif. Fender rim and wired-edge tool and the like. No. 1,427,300; Aug. 29.
Kenner, Duncan, assignor to Dry Hand Mop Company, New Orleans, La. Mop head. No. 1,427,478; Aug. 29.
Kent, Herbert V., London, England. Construction of hollow walls for buildings. No. 1,427,534; Aug. 29.
Kerley, Micheal J., Sioux City, Iowa. Safe and vault. No. 1,427,688; Aug. 29.
Kilfoyle, Fred M., Storrs, Utah. Letter file. No. 1,427,397; Aug. 29.
Killick, Reginald (See Stewart, H., and Killick.)
Kindsvater, John H., Wichita, Kans. Metal shoe sole and heel protector. No. 1,427,742; Aug. 29.
Kloneck, Austen J., New York, N. Y. Gearing for engine starting and lighting generators. No. 1,427,301; Aug. 29.
Kloneck, Austen J., New York, N. Y. Tire for vehicles. No. 1,427,302; Aug. 29.
Knight, John, Boundbrook, assignor to The John Knight Company, Inc., Elizabeth, N. J. Universal coupling or joint. No. 1,427,110; Aug. 29.
Knight, John, Company, The. (See Knight, John, assignor.)
Knorr, Frederick J. (See Weis, J. A., and Knorr.)
Knudsen, Hans L., Milwaukee, Wis. Valve mechanism. No. 1,427,111; Aug. 29.
Kochan, Wincenty. (See Malec, Frank A., assignor.)
Kohn, Samuel, New York, N. Y. Automatic start and stop attachment for phonographs. No. 1,427,479; Aug. 29.
Kohn, Sigmund F., New York, N. Y. Smoker's utensil. No. 1,427,503; Aug. 29.
Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Shock absorber. No. 1,427,480; Aug. 29.
Konigsberg, Lena. (See Konigsberg, Joseph, assignor.)
Kraemer, Frank, Milwaukee, Wis. Spark plug. No. 1,427,481; Aug. 29.
Krauth, Felix T. H. D., New York, N. Y. Game apparatus. No. 1,427,482; Aug. 29.
Krull, August C., Grand Rapids, assignor, by mesne assignments, to Machinery Company of America, Big Rapids, Mich. Reversing control for grinding machines. No. 1,427,756; Aug. 29.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,427,689; Aug. 29.
Kurtz, William H., Bloomfield, N. J. Furnace attachment. No. 1,427,483; Aug. 29.
Lambert, Arthur H., and J. Dubois, Biddeford, Me. Top-roll clearer board and apron clip for drawing frames. No. 1,427,158; Aug. 29.
Lamping, George B., and J. A. Du Laney, Seattle, Wash. Sand distributor for motor vehicles. No. 1,427,535; Aug. 29.
Landis, Glenn A. (See Starn, Willoughby J., assignor.)
Landry, Adolphus H., Lowell, Mass. Harness retractor. No. 1,427,604; Aug. 29.
Lang, Charles A., Selma, assignor of one-half to N. D. Hursh, Oakland, Calif. Device for dusting trees with dry sulphur. No. 1,427,743; Aug. 29.
Langford, Atlas C., Jackson, Tenn. Weatherproof window sill. No. 1,427,304; Aug. 29.
Lapp Insulator Company. (See Lapp, John S., assignor.)
Lapp, John S., assignor to Lapp Insulator Company, Le Roy, N. Y. Lathe. No. 1,427,213; Aug. 29.
Lawrence, Arthur H., assignor to J. B. Brooks and Company Limited, Birmingham, England. Cycle, motor-cycle, and analogous saddle. No. 1,427,484; Aug. 29.
Lawson, Leroy, Tipton, Ind. Vision shield for vehicles. No. 1,427,605; Aug. 29.
Layden, James, Brooklyn, N. Y. Collar. No. 1,427,745; Aug. 29.
Layden, James, Brooklyn, N. Y. Neckband and collar holder. No. 1,427,746; Aug. 29.
Layden, James, Brooklyn, N. Y. Shirt and neckband construction. No. 1,427,744; Aug. 29.
Layng, Harai R., deceased, San Francisco, Calif.; H. F. Layng, administratrix. Treating ores by volatilization. No. 1,427,765; Aug. 29.
Layng, Hattie F., administratrix. (See Layng, Harai R.)
Leach, Martin A. (See Hixson, James E., assignor.)
Leahy, Patrick T., Cleveland, Ohio. Mixing valve. No. 1,427,606; Aug. 29.
Ledwinka, Joseph, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Metal wheel. No. 1,427,747; Aug. 29.
Ledwinka, Joseph, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Wheel. No. 1,427,748; Aug. 29.
Ledwinka, Joseph. (See Budd, E. G., and Ledwinka.)
Leech, John W., Salina, Kans. Automobile attachment. No. 1,427,749; Aug. 29.
Lehmann, Karl A., Essens, assignor to Fried. Krupp Aktiengesellschaft, Essen on-the-Ruhr, Germany. Typewriting machine. No. 1,427,398; Aug. 29.
Lemoir, W. L., et al. (See Wynne, George E., assignor.)
Leopold, Cassella, & Co., Gesellschaft mit beschrankter Haftung. (See Renda, Louis, assignor.)
Levine, Alex N. (See Marcy, Ira M., assignor.)
Lewis, George A. and R. L., Lynn, Mass. Photographic apparatus. No. 1,427,750; Aug. 29.
Lewis, Robert I. (See Lewis, George A. and R. I.)
Leysieffer, Gustav, Troisdorf, near Cologne, Germany. Manufacture of molded articles from cellulose ethers. No. 1,427,690; Aug. 29.
Lichtenberg, Fred, and M. M. McCarthy, Yonkers, N. Y. Building construction. (Reissue.) No. 15,440; Aug. 29.
Lightner, Arthur D., and E. Holmes, assignors to The Willys-Overland Company, Toledo, Ohio. Vehicle lifting means. No. 1,427,214; Aug. 29.
Lilienfeld, Leon, Vienna, Austria. Manufacture of Dialkylsulphates. No. 1,427,215; Aug. 29.
Lindberg, John F., Chicago. Governing mechanism for internal-combustion engines. No. 1,427,485; Aug. 29.
Lindgren, Hans O., assignor to Aktiebolaget Separator, Stockholm, Sweden. Supporting strip for conical liner plates in the bowl of centrifugal separators. No. 1,427,486; Aug. 29.
Lindner, Hans, Woodsboro, Tex. Tractor. No. 1,427,399; Aug. 29.
Lindsay, W. B., et al. (See Wynne, George E., assignor.)
Linotype and Machinery Limited. (See Billington, John E., assignor.)
Linotype and Machinery Limited. (See Carter, Robert D., assignor.)
Liquid Measuring Devices Corporation. (See Milligan, John F., assignor.)
Lissauer, Adolph W., North Tarrytown, assignor to W. L. Fleisher & Co., Inc., New York, N. Y. Pressure regulator. No. 1,427,112; Aug. 29.
Little, Joseph P., Statesville, N. C. Subsoiler attachment for plows. No. 1,427,305; Aug. 29.
Little, William F., Nepperhan Heights, N. Y. Reflector for automobile headlamps. No. 1,427,216; Aug. 29.
Lloyd, Thomas C., assignor to Irving Drew Company, Portsmouth, Ohio. Shoe. No. 1,427,607; Aug. 29.
Lobdell, Edward J., jr., assignor to The American Wood Rim Company, Onaway, Mich. Steering-wheel construction. No. 1,427,487; Aug. 29.
Lockett, A. M., & Co. (See Nelson, Bernard S., assignor.)
Long, Eugene M., New York, N. Y. Golf training, exercising, and practicing apparatus. No. 1,427,536; Aug. 29.
Long, Eugene M., New York, N. Y. Artificial hole for indoor golf putting. No. 1,427,537; Aug. 29.

Long, Eugene M., New York, N. Y. Golf-practicing apparatus. No. 1,427,538; Aug. 29.
Loomis, Chauncey C., New York, assignor to Semet-Solvay Company, Solvay, N. Y. Producing salicyl aldehyde. No. 1,427,400; Aug. 29.
Lorenz, Rudolf, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the Ruhr, Germany. Self-discharging car. No. 1,427,539; Aug. 29.
Lotz, William A., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag handle and handle fastener therefor. No. 1,427,608; Aug. 29.
Lovejoy Tool Works. (See Hasty, John B., assignor.)
Luthy, Joseph O., San Antonio, Tex. Carburetor float. No. 1,427,306; Aug. 29.
McAfee, William K., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil support for dynamo-electric machines. No. 1,427,401; Aug. 29.
McCarthy, Michael M. (See Lichtenberg, F., and McCarthy.)
McClenathen, Robert, assignor to Kelly-Springfield Tire Company, Akron, Ohio. Molding machine. No. 1,427,217; Aug. 29.
McCool, James H., Ellsworth, Kans. Attachment for pool tables. No. 1,427,691; Aug. 29.
McCulla, William R., assignor to The Willys-Overland Company, Toledo, Ohio. Engine-testing apparatus. No. 1,427,218; Aug. 29.
McDonald, Albert L., Woodlawn, Pa. Mining tool. No. 1,427,609; Aug. 29.
McDonald, J. J. (See Grace, Henry S., assignor.)
McGowen, William R., Chicago, Ill. Bumper-supporting bracket. No. 1,427,488; Aug. 29.
McKee, Walter S., Chicago, Ill. Dipper-tooth point with hollow surfaces. No. 1,427,610; Aug. 29.
McLaughlin, Frank, Toronto, Ontario, Canada. Device for feeding fluid, semifluid, and plastic substances. No. 1,427,758; Aug. 29.
Mahon, Mary A., St. Louis, Mo. Clothespin bag. No. 1,427,219; Aug. 29.
MacCamy, Harry E., assignor to Southwestern Condenser Company, Los Angeles, Calif. Condenser and cooler. No. 1,427,611; Aug. 29.
MacDowell, George S., New York, and H. A. Perkins, assignors to American Wood Working Machinery Company, Rochester, N. Y. Stock-positioning mechanism. No. 1,427,757; Aug. 29.
Machinery Company of America. (See Krull, August C., assignor.)
MacLeod, James, assignor of one-half to H. Reid, Glasgow, Scotland. Air-cooled or evaporative surface condenser. No. 1,427,159; Aug. 29.
MacNeill, John B. (See Christmann, G. L., and MacNeill.)
MacNeill, John B. (See Fortescue, C. L., and MacNeill.)
Mahon, Thomas C., and J. P. Burges, North Vancouver, British Columbia, Canada. Internal-combustion rotary engine. No. 1,427,692; Aug. 29.
MaKenney, Roy C., St. John, New Brunswick, Canada. Propeller. No. 1,427,307; Aug. 29.
Malec, Frank A., Pawtucket, assignor of one-half to W. Kochan, Central Falls, R. I. Bicycle. No. 1,427,402; Aug. 29.
Mansfield Lamp and Manufacturing Company, The. (See Wood, Arthur C., assignor.)
Manson, Leon B., Brooklyn, N. Y., assignor to Franco Electric Corporation. Lighting set. No. 1,427,489; Aug. 29.
Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Hook-switch mechanism. No. 1,427,160; Aug. 29.
March, William F., Philadelphia, Pa. Brake adjuster for automobiles, trucks, and the like. No. 1,427,113; Aug. 29.
Marcy, Ira M., assignor of one-half to Alex N. Levine, Chattanooga, Tenn. Differential gearing for automobiles. No. 1,427,612; Aug. 29.
Marsden, William N. (See Kaufmann, F. J., and Marsden.)
Martin, Julia A., Knoxville, Tenn. Coal hod. No. 1,427,613; Aug. 29.
Martin, Treviille O., Jackson, Tenn. Tool holder. No. 1,427,403; Aug. 29.
Martin, William, Detroit, Mich. Fuelizing manifold for internal-combustion engines. No. 1,427,540; Aug. 29.
Martin, Wyatt, Cleveland, Ohio, assignor of one-half to C. Cox. Lock-wire turnbuckle. No. 1,427,114; Aug. 29.
Maschinenfabrik Kappel Aktiengesellschaft. (See Verse, Emil, assignor.)
Mason, Edwin M., assignor to The Supreme Tribe of Ben Hur, Crawfordsville, Ind. Certificate. No. 1,427,161; Aug. 29.
Mastenbrook, Henry J., Lakewood, assignor to The Coach Builders Hardware Company, Cleveland, Ohio. Automobile door hinge. No. 1,427,308; Aug. 29.
Mather, Alonzo C., Chicago, Ill. Frictional draft gear for railway cars. No. 1,427,309; Aug. 29.
Matsushita, Gentaro, Fresno, Calif. Tray-stacking machine. No. 1,427,490; Aug. 29.
Mauck, Victor, Norristown, Pa. Munition casing. No. 1,427,220; Aug. 29.
Mauck, Victor, Norristown, Pa. Sheet-metal vessel. No. 1,427,404; Aug. 29.
Maxey, Lloyd E., Wichita, Kans. Proportional-feed regulator. No. 1,427,405; Aug. 29.
Maximilian, Max. (See Keller, W. H., Maximilian, and Schinkez.)
Mendez, Manuel J., Mexico, Mexico, assignor to W. H. Miner, Chazy, N. Y. Tandem draft gear for railway cars. No. 1,427,491; Aug. 29.
Menkin, Max, New York, N. Y. Releasable self-fastening button. No. 1,427,614; Aug. 29.
Mergenthaler Linotype Company. (See Thompson, John S., assignor.)
Merriam, Charles F., Trenton, N. J. Producing educational photographs. No. 1,427,615; Aug. 29.
Merrifield, M. L., et al. (See Curran, Oscar R., assignor.)
Merrifield, W. G., et al. (See Curran, Oscar R., assignor.)
Merry, Ernest W., Sheffield, England, assignor, by mesne assignments, to Pyrotan Leather Corporation, Wilmington, Del. Tanning hides and skins. No. 1,427,221; Aug. 29.
Metals Recovery Company. (See Schwarz, Alfred, assignor.)
Metallic Industries, Inc. (See Christopher, Arthur B., assignor.)
Metropolitan Edison Company. (See Spangler, Charles H., assignor.)
Meyers, George F., New York, N. Y. Hoisting apparatus. No. 1,427,310; Aug. 29.
Miller, Frederick E., assignor to St. Louis Cash Register Company, Incorporated, St. Louis, Mo. Cash-registers tab-actuating mechanism. No. 1,427,311; Aug. 29.
Miller, John C., assignor to The Willys-Overland Company, Toledo, Ohio. Wheel block. No. 1,427,222; Aug. 29.
Miller, Olin P., Woodland, Ga. Transmission. No. 1,427,223; Aug. 29.
Miller, Raymond S., Stockton, Calif. Trousers supporter. No. 1,427,406; Aug. 29.
Miller, Robert H., assignor to Detroit Stove Works, Detroit, Mich. Electric switch. No. 1,427,312; Aug. 29.
Millers Falls Company. (See Shortell, W. H., and Sutliffe, assignors.)
Milligan, John F., assignor to Liquid Measuring Devices Corporation, New York, N. Y. Liquid-measuring apparatus. No. 1,427,115; Aug. 29.
Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Current-collecting device. No. 1,427,407; Aug. 29.
Milner, William H. (See Mendez, Manuel J., assignor.)
Miskin, Arthur R., Ucon, Idaho. Earth scraper. No. 1,427,693; Aug. 29.
Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. No. 1,427,162; Aug. 29.
Moffatt, Edward H. and W. H., Toronto, Ontario, Canada. Stall. No. 1,427,224; Aug. 29.
Moffatt, William H. (See Moffatt, Edward H. and W. H.)
Molique, George A., Wood River, Ill. Steam trap. No. 1,427,116; Aug. 29.
Momsen, Walter W. (See Huss, F. E., and Momsen.)
Montgomery, John H., New York, N. Y. Closure for bottles, jars, and other receptacles. No. 1,427,694; Aug. 29.
Moore, Edward J. and R. H., assignors to The W. W. Sly Manufacturing Company, Cleveland, Ohio. Separator. No. 1,427,117; Aug. 29.
Moore, George A., assignor to Detroit Range, Boiler & Steel Barrel Company, Detroit, Mich. Bung-flange blank. No. 1,427,616; Aug. 29.
Moore, Raymond H. (See Moore, Edward J. and R. H.)
Morehouse, Gardner E., Moline, Ill., assignor to Toro Manufacturing Company, Minneapolis, Minn. Lawn mower. No. 1,427,617; Aug. 29.
Morgan & Wright. (See Eger, Ernst, assignor.)
Morgan, Edmund C., New York, N. Y. Mining and loading machine. No. 1,427,118; Aug. 29.
Morgan, Edmund C., New York, N. Y. Mining and loading machine. No. 1,427,119; Aug. 29.
Morrill, Charles L. (See Freuler, H. F., and Morrill.)
Morris, Richard, Gwinn, Mich. Bed. No. 1,427,618; Aug. 29.
Morris, Robert W., Roslyn, N. Y., assignor to American Telephone and Telegraph Company. Switchboard call-signal apparatus and circuits. No. 1,427,695; Aug. 29.
Morse, Alfred B., assignor, by mesne assignments, to J. A. Morse, South Easton, Mass. Locking nut. No. 1,427,313; Aug. 29.
Morse, Julia A. (See Morse, Alfred B., assignor.)
Morton, Samuel S., Philadelphia, Pa. Automobile transmission. No. 1,427,541; Aug. 29.
Morton, Samuel S., Philadelphia, Pa. Endless-tread chain. No. 1,427,542; Aug. 29.
Muehl, William F., Kansas City, Mo. Wheel. No. 1,427,402; Aug. 29.
Mueller, Frederick E., Mount Vernon, assignor to The Norma Company of America, Long Island City, N. Y. Retaining cage for multiple-row ball bearings. No. 1,427,225; Aug. 29.
Mueller, Robert M., New York, N. Y. Air-trap gasoline strainer. No. 1,427,619; Aug. 29.
Murray, Forrest H., Cambridge, Mass. Arc-describing instrument. No. 1,427,493; Aug. 29.
Mushall, Frank, Chicago, Ill. Screen frame. No. 1,427,620; Aug. 29.
Myers Aircraft Corporation. (See Myers, George F., assignor.)

Myers, George F., New York, N. Y., assignor to Myers Aircraft Corporation. Aircraft. No. 1,427,314; Aug. 29.
Myers, Hubert A., assignor to The Hubert A. Myers Company, Toledo, Ohio. Mold and treating same. No. 1,427,226; Aug. 29.
Myers, Hubert A., Company, The. (See Myers, Hubert A., assignor.)
Myers, Lewis C. (See Hess, E. B., and Myers.)
Najarian, Jerry, Hartford, Conn. Insulating composition. No. 1,427,621; Aug. 29.
National Equipment Company. (See Bausman, Alonzo L., assignor.)
National Lock Washer Company. (See Cochrane, Robert L., assignor.)
National Machinery Co., The. (See Clouse, William L., assignor.)
National Motor Control Co. (See Heller, Jesse B., assignor.)
National Pneumatic Company. (See Keller, Ernest, assignor.)
Naye, Vincent, Providence, R. I. Tire. No. 1,427,622; Aug. 29.
Needham, William H., assignor to Boston Pressed Metal Company, Worcester, Mass. Forming an article of sheet metal. No. 1,427,315; Aug. 29.
Nelson, Bernard S., assignor to A. M. Lockett & Co. Ltd., New Orleans, La. Oil heater. No. 1,427,408; Aug. 29.
Nelson, Gustave C., assignor to The Borg & Beck Company, Moline, Ill. Friction clutch. No. 1,427,623; Aug. 29.
Nelson, James P., Cincinnati, Ohio. Electric-alarm transmitter. No. 1,427,543; Aug. 29.
Nelson, Roy A., Chicago, Ill. Reenforced steel plate. No. 1,427,120; Aug. 29.
Neumann, R., Hardware Co., The. (See Lotz, William A., assignor.)
New York Bath Manufacturing Co. (See Holley, William V., assignor.)
New Zealand Flusher Company Limited, The. (See Johns, Stuart O., assignor.)
Newberry, John A., Huntington, W. Va. Cable splice. No. 1,427,494; Aug. 29.
Newton, Richard T., New York, N. Y. Vehicle accessory. No. 1,427,624; Aug. 29.
Nichols, Wesley G., assignor to American Manganese Steel Company, Chicago, Ill. Heat treatment of manganese steel. No. 1,427,121; Aug. 29.
Nichols, Wesley G., assignor to American Manganese Steel Company, Chicago, Ill. Inserted-center railway crossing. No. 1,427,122; Aug. 29.
Nicholson, Thomas G., Chicago, Ill. Floor construction. No. 1,427,625; Aug. 29.
Nickerson, William E., Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Blade-sharpening machine. No. 1,427,163; Aug. 29.
Niver, Raymond W., assignor to Thatcher Manufacturing Company, Elmira, N. Y. Leer feeder. No. 1,427,164; Aug. 29.
Noe, Walter R., New York, N. Y. Pencil. No. 1,427,409; Aug. 29.
Nordyke & Marmon Company. (See Ziegler, Leslie L., assignor.)
Norma Company of America, The. (See Mueller, Frederick E., assignor.)
Norris, Harvey O., Dayton, Ohio. Paint sprayer. No. 1,427,495; Aug. 29.
Norris, Lewis W., Oakland, Calif. Well-boring device. No. 1,427,410; Aug. 29.
North British Rubber Company Limited, The. (See Williams, William A., assignor.)
Nyswander, David J., Toledo, Ohio. Liquid-fuel burner. No. 1,427,227; Aug. 29.
O'Brien, Chester J., Chicago, Ill. Bar spacer. No. 1,427,316; Aug. 29.
O'Donnell, John R. (See Feldblet, H. L., and O'Donnell.)
Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift system. No. 1,427,317; Aug. 29.
Olivé, Luis A., Barcelona, Spain. Closure for envelopes or similar wrappers. No. 1,427,165; Aug. 29.
Onepiece Bifocal Lens Company. (See Bugbee, Lucian W., assignor.)
Ono, Iwao, Los Angeles, Calif. Dental pressure gauge. No. 1,427,496; Aug. 29.
Orioka, Sadama, Palama, Honolulu, Hawaii. Endless-chain motor. No. 1,427,544; Aug. 29.
Orr, James S., Pocatello, Idaho. Device for opening cans and discharging their contents. No. 1,427,545; Aug. 29.
Owen, Ernest V., assignor to The Hoover Company, Chicago, Ill. Process and apparatus for catalyzing oils and revivifying the catalyst. No. 1,427,626; Aug. 29.
Parton, William H., assignor of one-half to Wear-Ever Tank & Paint Co., Huron, S. Dak. Tank or storage receptacle. No. 1,427,166; Aug. 29.
Partridge, Hugh, assignor to Partridge Tractor Company, Inc., Jacksonville, Fla. Traction wheel. No. 1,427,167; Aug. 29.
Partridge Tractor Company. (See Partridge, Hugh, assignor.)
Payne, Charles H., Cincinnati, Ohio. Collapsible tube. No. 1,427,411; Aug. 29.
Payne, Frank E., Chicago, Ill. Condenser. No. 1,427,318; Aug. 29.
Peacock, Samuel, assignor, by mesne assignments, to Wheeling Steel & Iron Company, Wheeling, W. Va. Apparatus for annealing thin steel sheets. No. 1,427,319; Aug. 29.
Pendergast, Frederick W., Cambridge, Mass. Mop. No. 1,427,627; Aug. 29.
Perkins, Hiram A. (See MacDowell, G. S., and Perkins.)
Permento, Anthony W., San Francisco, Calif. Cotter-pin attachment. No. 1,427,696; Aug. 29.
Perry, Willis D. (See Ballard, W. P., and Perry.)
Peters, William A., assignor, by mesne assignments, to International Patent Licensing Corporation, Chicago, Ill. Camera. No. 1,427,546; Aug. 29.
Petersen, Orslow, Cedar Falls, Iowa. Edge support for roofs. No. 1,427,412; Aug. 29.
Phillips, William E., assignor to The Stearns Conveyor Company, Cleveland, Ohio. Wheel. No. 1,427,320; Aug. 29.
Phillips, Edward H., Fort Mill, S. C. Crosstie. No. 1,427,628; Aug. 29.
Phillips, Edward H., Fort Mill, S. C. Rail fastener. No. 1,427,629; Aug. 29.
Pickett, George F. (See Jackson, P. T., and Pickett.)
Pieper, Nicolas, Liege, Belgium. Automatic pistol. No. 1,427,413; Aug. 29.
Pierce, Clarence A., Lowell, Mass. Bunch-building attachment for spinning frames. No. 1,427,697; Aug. 29.
Pietzuch, Joseph, Cincinnati, Ohio. Innersole for boots and shoes. No. 1,427,547; Aug. 29.
Pinder, Rudolph, Medford, Mass. Reversible clutch. No. 1,427,168; Aug. 29.
Piper, Walter F. (See Beardsley, E. O., and Piper.)
Pirkenson, Richard. (See Sprengnether, William F., assignor.)
Pitkin, William, London, England. Wind screen for motor cars. No. 1,427,630; Aug. 29.
Podolsky, Henry, San Francisco, Calif. Trap for fish. No. 1,427,321; Aug. 29.
Pollakoff, Rourvine, New York, N. Y. Lead-cable-covering press. No. 1,427,698; Aug. 29.
Pomeroy, Ralph E. H., Canton, Ohio. Dry-pulverizing apparatus. No. 1,427,322; Aug. 29.
Portlock, William S., sr., Norfolk, Va. Lock for automobiles. No. 1,427,323; Aug. 29.
Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Shutter mechanism for moving picture machines. No. 1,427,228; Aug. 29.
Power, Nicholas, Company. (See Power, Nicholas, assignor.)
Preston, Edward S., Chicago, Ill., assignor to Edmunds & Jones Corporation. Vehicle lamp. No. 1,427,631; Aug. 29.
Priestley, Charles M. E., assignor to Société Vedovelli Priestley & Co., Paris, France. Manufacturing electric transformers of small power. No. 1,427,324; Aug. 29.
Pryor, Charles R., Garfield, Md., assignor of one-half to W. B. Stottlemyer, Waynesboro, Pa. Internal-combustion engine. No. 1,427,632; Aug. 29.
Puig, Philip W., Philadelphia, Pa. Bag holder. No. 1,427,123; Aug. 29.
Pyraman Leather Corporation. (See Merry, Ernest W., assignor.)
Quick, Brunnie W., assignor to Johnson Automatic Scaler Co., Ltd., Battle Creek, Mich. Conveyer. No. 1,427,325; Aug. 29.
Quigley, William J. (See Thompson, C. W., and Quigley.)
Raboni, Eduardo, New York, N. Y. Electric bell. No. 1,427,548; Aug. 29.
Rafferty, William F., Toronto, Ontario, Canada. Brake mechanism. No. 1,427,326; Aug. 29.
Ragsdale, Raymond, Porterville, Calif. Shock absorber. No. 1,427,327; Aug. 29.
Ragsdale, Raymond, Porterville, Calif. Shock absorber. No. 1,427,414; Aug. 29.
Raich, Anthony, Kemmerer, Wyo. Gear-shift indicator. No. 1,427,415; Aug. 29.
Railway and Industrial Engineering Company. (See Getchell, Benjamin E., assignor.)
Rand, James H., North Tonawanda, N. Y. Index tab. No. 1,427,549; Aug. 29.
Rathbun, Edgar A., Pontiac, Mich. Vehicle top. No. 1,427,328; Aug. 29.
Ray, William R., San Francisco, Calif. Electric motor. No. 1,427,416; Aug. 29.
Read Henry H., London, England. Packing case. No. 1,427,633; Aug. 29.
Reiber, Edward W., assignor to The Reiber-Kolz Company, Adrian, Mich. Spotlight. No. 1,427,329; Aug. 29.
Reiber-Kolz Company, The. (See Reiber, Edward W., assignor.)
Reid, Hugh. (See MacLeod, James, assignor.)
Reinberger, Paul, Cleveland, Ohio. Fluid-current motor. No. 1,427,124; Aug. 29.
Reinhardt, William, New York, N. Y. Convertible vehicle body. No. 1,427,634; Aug. 29.
Remington Typewriter Company. (See Woodward, Oscar, assignor.)
Restak, Thomas C., East Rochester, Pa. Bolt. No. 1,427,635; Aug. 29.
Rex Machine Tool Co. (See Callebert, Alfonse, assignor.)
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Warp-tension-locking mechanism for looms. No. 1,427,636; Aug. 29.

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for looms. No. 1,427,637; Aug. 29.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting means for looms. No. 1,427,638; Aug. 29.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for looms. No. 1,427,639; Aug. 29.
Ribéra, Charles A. M., and F. A. Serre, Nimes, France. Automatic coupling device for railway cars. No. 1,427,759; Aug. 29.
Richards, George, L. N. Burt, London, and J. E. Freeborn, Walthamstow, England. Milling screw threads. No. 1,427,169; Aug. 29.
Richardson, Emmit D., Cawker City, Kans. Feeder. No. 1,427,640; Aug. 29.
Richter, George A., assignor to Brown Company, Berlin, N. H. Fiber liberation. No. 1,427,125; Aug. 29.
Richter, William, Leavenworth, Kans. Gas-pipe-manipulating apparatus. No. 1,427,699; Aug. 29.
Rickard, Warren P., Plymouth, Mass. Hoisting chain. No. 1,427,642; Aug. 29.
Rickey, Steve, assignor of one-half to S. Chorny, Moosehorn, Manitoba, Canada. Velocipede. No. 1,427,417; Aug. 29.
Ridge, Herman D., Chicago, Ill. Scale. No. 1,427,760; Aug. 29.
Ridings, John H., Coal City, Ill. Jawed tool. No. 1,427,550; Aug. 29.
Riesner, Gerhard, Melrose, Minn. Steering mechanism. No. 1,427,641; Aug. 29.
Riley, Lynn G. (See Brooks, W. G., and Riley.)
Ritter, Herman W. (See Gibbons, W. A., and Ritter.)
Riverview Cemetery Company. (See Thompson, C. W., and Quigley, assignors.)
Robbins, Frank M., and J. S. Hartley, assignors to Ross-Meehan Foundries, Chattanooga, Tenn. Conveyer cleat. No. 1,427,229; Aug. 29.
Roberts, Frank G. A. (See Campbell, C. W. R., and Roberts.)
Roberts, John F., Fresno, Calif. Grouter for tractor wheels. No. 1,427,418; Aug. 29.
Rolfes, George H., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lamp and making bases therefor. No. 1,427,126; Aug. 29.
Ross Meehan Foundries. (See Robbins, F. M., and Hartley, assignors.)
Rousseau, Stanislas and W. Yovall, East Alton, Ill., assignors to Western Cartridge Company. Antifouling metal for projectiles. No. 1,427,127; Aug. 29.
Rousset, Jules, Nogent-sur-Marne, France. Manufacture of hollow artificial textile articles. No. 1,427,330; Aug. 29.
Royal Typewriter Company. (See Hess, E. B., and Myers, assignors.)
Rude, Cora, Volin, S. Dak. Flour-sifter attachment. No. 1,427,643; Aug. 29.
Ruddell, William A., Asbury Park, N. J. Glove pattern. No. 1,427,419; Aug. 29.
Ruschmeyer, William J. H., Toledo, Ohio. Combination lock. No. 1,427,551; Aug. 29.
Rushmore, Samuel W., Plainfield, N. J. Electric-elevator-control system. No. 1,427,644; Aug. 29.
Safepack Mills. (See Thomas, William G., jr., assignor.)
Salathe, Frederick, jr., Santa Barbara, Calif. Insulating material. No. 1,428,230; Aug. 29.
Salgee, Charles P., Philadelphia, Pa. Fluid engine. No. 1,427,701; Aug. 29.
Sargent, Frederick L., Burlingame, Calif. Towel dispenser. No. 1,427,420; Aug. 29.
Satow, Sadakichi, Sendai, Japan. Manufacturing vegetable proteid substances. No. 1,427,645; Aug. 29.
Sauter, Joseph H., New York, N. Y. Washing machine. No. 1,427,552; Aug. 29.
Schmid, William, Kalamazoo, Mich. Milling machine. No. 1,427,761; Aug. 29.
Schinkez, Albert. (See Keller, W. H., Maximilian, and Schinkez.)
Schrader's, A., Son, Incorporated. (See Ware, Archibald J., assignor.)
Schräder, Edmund, Berlin, Germany. Electric seam-welding machine. No. 1,427,231; Aug. 29.
Schryver, Clinton E., Chicago, Ill. Belt shifter. No. 1,427,702; Aug. 29.
Schulz, Carl W. (See Haenicke, Arthur, assignor.)
Schwab, Charles A. (See Jones, F. E., and Schwab.)
Schwarz, Alfred, Joplin, Mo., assignor to Metals Recovery Company, New York, N. Y. Composition and substance for use in concentration of ores and producing same. No. 1,427,232; Aug. 29.
Schwieger, Hedwig, née Kipp, Hanover, Germany, assignor to H. Geering, Basel, Switzerland. Closure for glasses for preserved fruits and the like. No. 1,427,128; Aug. 29.
Schwinger, Albert G., Niagara Falls, N. Y. Conveyer. No. 1,427,553; Aug. 29.
Scott, Lewis L., St. Louis, Mo. Oil-burning heating system. No. 1,427,700; Aug. 29.
Segler, Albert H., assignor to Goodman Manufacturing Company, Chicago, Ill. Shaft cutting and centering machine. No. 1,427,233; Aug. 29.
Selden Company, The. (See Selden, James M., assignor.)
Selden, James M., assignor to The Selden Company, Pittsburgh, Pa. Catalyzing apparatus. No. 1,427,554; Aug. 29.
Selsnik, Christian, Cleveland, Ohio. Flag holder. No. 1,427,646; Aug. 29.
Semet-Solvay Company. (See Loomis, Chauncey C., assignor.)
Serre, Fernand A. (See Ribéra, C. A. M., and Serre.)
Sharp, Ray C., Anaheim, Calif. Automatic expansible packing head. No. 1,427,647; Aug. 29.
Sharp, Ray C., Los Angeles, Calif. Expansible packing head. No. 1,427,648; Aug. 29.
Sheer, Henry M., Quincy, Ill. Heating system for brooders, incubators, and the like. No. 1,427,703; Aug. 29.
Sheer, Henry M., Quincy, Ill. Burner for oil-heating systems. No. 1,427,704; Aug. 29.
Shepard, Homer E., assignor to D. B. Suter, Rochester, N. Y. Explosive engine. No. 1,427,555; Aug. 29.
Sherban, Daniel V., Canton, Ohio. Pulverizing mill. No. 1,427,234; Aug. 29.
Sheridan, Guy E., and G. G. Griswold, jr., Butte, Mont. Concentration of ores. No. 1,427,235; Aug. 29.
Sherwood, Frederick W., Brooklyn, assignor to Kelly-Springfield Tire Company, New York, N. Y. Resilient vehicle tire. No. 1,427,331; Aug. 29.
Sherwood, Joseph J., St. Louis, Mo., assignor to Hooker Electrochemical Company, New York, N. Y. Electrolytic method and apparatus. No. 1,427,236; Aug. 29.
Shikusawa, Izumi, Chigusa Machi, Japan. Setting tacks in porcelain teeth. No. 1,427,237; Aug. 29.
Shortell, William H., and F. L. Sutliffe, West Haven, Conn., assignors to Millers Falls Company, Millers Falls, Mass. Impact tool. No. 1,427,556; Aug. 29.
Shumilo, Egnaty. (See Hemshowski, Albert, assignor.)
Sillett, Harry C., Kansas City, Mo. Hydrocarbon-gas generator and burner. No. 1,427,129; Aug. 29.
Silver, Walter H., assignor to Deere & Company, Moline, Ill. Mounting colters. No. 1,427,649; Aug. 29.
Simplex Shoe Machinery Company. (See Wheeler, John L., assignor.)
Sinkwitz, Rudolf, Copitz, assignor to W. Kaufmann, Dresden-A, Saxony, Germany. Device for throwing washing and reeling spooled artificial silk. No. 1,427,238; Aug. 29.
Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone exchange system. No. 1,427,170; Aug. 29.
Sly, W. W., Manufacturing Company, The. (See Moore, Edward J., and R. H., assignors.)
Smith, Albert W., Cleveland, Ohio. Electrolytic apparatus. No. 1,427,171; Aug. 29.
Smith, Edwin L., assignor to O. Branch, Philadelphia, Pa. Lace-braiding machine. No. 1,427,172; Aug. 29.
Smith, Francis P., Rye, N. Y. Expansion joint. No. 1,427,557; Aug. 29.
Smith, Francis P., Rye, N. Y. Expansion joint. No. 1,427,558; Aug. 29.
Smith, Fredrick W., Minneapolis, Minn. Tobacco pipe. No. 1,427,762; Aug. 29.
Smith, James F., Birmingham, England. Bulb for pneumatic warning horns. No. 1,427,497; Aug. 29.
Société Vedovelli Priestley & Co. (See Priestley, Charles M. E., assignor.)
Sonsthagen, Asbjorn, Essex, and E. H. Harberd, London, England. Method and means for atomizing more or less viscid materials. No. 1,427,559; Aug. 29.
Sörensen, Marius M., Vallerød, near Rungsted, Denmark. Lasting machine. No. 1,427,498; Aug. 29.
Sorola, John. (See Tanttila, H., and Sorola.)
Southwestern Condenser Company. (See MacCamy, Harry E., assignor.)
Spalding, A. G., & Bros. (See Aldrich, William T., assignor.)
Spangler, Charles H., assignor to Metropolitan Edison Company, Reading, Pa. Water-treating apparatus. No. 1,427,650; Aug. 29.
Spear, George B., Paterson, N. J. Pocket guard. No. 1,427,499; Aug. 29.
Spencer, Harry O., Cincinnati, Ohio. Combination valve device. No. 1,427,239; Aug. 29.
Sperry, Elmer A., Brooklyn, N. Y. Means for detecting submarine boats. No. 1,427,560; Aug. 29.
Sprengnether, William F., assignor of one-half to R. Pirkenson, St. Louis, Mo. Sun shield for automobiles. No. 1,427,332; Aug. 29.
Spry, Franklin B., Plymouth, Pa. Expanding auger. No. 1,427,705; Aug. 29.
Stafford, Alfred E., assignor to Draper Corporation, Hopedale, Mass. Transfer mechanism for looms. No. 1,427,421; Aug. 29.
Standard Parts Company, The. (See Hoeflinger, Austin D., assignor.)
Standard Parts Company, The. (See Torbensen, Viggo V., assignor.)
Stanfield, Joseph R. M., Cardiff, assignor of one-half to J. F. Adye, Brentwood, Dinas Powis, Wales. Spring suspension of vehicles. No. 1,427,240; Aug. 29.
Starn, Willoughby J., assignor of one-fourth to G. A. Landis, Doylestown, Ohio. Garment fastener. No. 1,427,561; Aug. 29.
Stearns Conveyor Company, The. (See Phillips, William E., assignor.)
Steinbach, John J., Scranton, assignor to Wilmot Engineering Company, Hazleton, Pa. Coal jig. No. 1,427,651; Aug. 29.

Stephens, John D., Pittsburgh, Pa. Means for hanging wall coverings. No. 1,427,333; Aug. 29.
Stewart, Franklin W., Chicago, Ill. Shaft-connecting swivel and gearing. No. 1,427,652; Aug. 29.
Stewart, Hester, and R. Killick, London, England. Cinematograph color projector. No. 1,427,131; Aug. 29.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for looms. No. 1,427,422; Aug. 29.
Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for looms. No. 1,427,423; Aug. 29.
St. John, Miles C., Chicago, Ill. Automatically-releasing anchoring device for aerial vehicles. No. 1,427,500; Aug. 29.
St. Louis Cash Register Company. (See Miller, Frederick E., assignor.)
St. Mary College, Society of Mary, Province of Cincinnati. (See Beck, William A., assignor.)
Stoll, Frank M., Denver, Colo. Luggage rack. No. 1,427,173; Aug. 29.
Stoll, Frank M., Denver, Colo. Automobile body brace. No. 1,427,763; Aug. 29.
Stone, George W., Moberly, Mo. Bookmarker. No. 1,427,334; Aug. 29.
Stottlemyer, Worth B. (See Pryor, Charles R., assignor.)
Strand, Charles A., Chicago, Ill. Blade-sharpening mechanism. No. 1,427,130; Aug. 29.
Streich, Paul R., assignor to Union Machinery Company, Joliet, Ill. Dumping mechanism for conveyers. No. 1,427,653; Aug. 29.
Strickland, Dewitt W., Tylertown, Miss. Cultivator. No. 1,427,424; Aug. 29.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Manson, Ray H., assignor.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)
Struck, Ludwig T., Washington, D. C. Trousers-supporting device. No. 1,427,335; Aug. 29.
Stucki, Arnold, Pittsburgh, Pa. Roller side bearing. No. 1,427,174; Aug. 29.
Stuebing Truck Company, The. (See Stuebing, W., jr., and Van Guelpen, assignors.)
Stuebing, William, jr., and H. A. Van Guelpen, Cincinnati, Ohio, assignors to The Stuebing Truck Company. Lifting truck. No. 1,427,764; Aug. 29.
Suehy, Albert, jr., and E. W. Hopper, Philadelphia, Pa. Machine for making perforated music rolls. No. 1,427,336; Aug. 29.
Sullivan Machinery Company. (See Oliphant, John, assignor.)
Sullivan, Michael H., Poughkeepsie, N. Y. Piston and piston ring. No. 1,427,425; Aug. 29.
Sunderman Corporation. (See Sunderman, Frederick R., assignor.)
Sunderman, Frederick R., assignor to Sunderman Corporation, Newburgh, N. Y. Jack. No. 1,427,241; Aug. 29.
Supreme Tribe of Ben Hur, The. (See Mason, Edwin M., assignor.)
Suter, Daniel B. (See Shepard, Homer E., assignor.)
Suther, Louis, Hubbard County, Minn. Poultry decapitator. No. 1,427,562; Aug. 29.
Sutliffe, Frank L. (See Shortell, W. H., and Sutliffe.)
Swartout, William E., Chicago, Ill. Precision measuring instrument. No. 1,427,132; Aug. 29.
Swartzman, Morris, Brooklyn, N. Y. Safety device for motor vehicles. No. 1,427,242; Aug. 29.
Sylvan, Joseph, Cicero, Ill. Ventilating skylight. No. 1,427,175; Aug. 29.
Taliaferro, Thomas L., Chicago, Ill. Hermetic seal for containers. No. 1,427,133; Aug. 29.
Taliaferro, Thomas L., Chicago, Ill. Forming sealing members for containers. No. 1,427,134; Aug. 29.
Tantila, Hjalmar, Chicago, Ill., and J. Sorola, Crosby, Minn., assignors of one-third to P. Holappa, Chicago, Ill. Railway switch. No. 1,427,563; Aug. 29.
Taylor, John, Pocatello, Idaho. Steam generator. No. 1,427,176; Aug. 29.
Taylor, William A., et al. (See Clark, Melville, assignor.)
Tenney, Fred Doncaster, England. Game. No. 1,427,135; Aug. 29.
Tessin, Frederick J. (See Burns, F. L., and Tessin.)
Thatcher Manufacturing Company. (See Niver, Raymond W., assignor.)
Thelin, Erick B. (See Barclay, William G., assignor.)
Thiell, William C., Baltimore, Md. Automobile lock. No. 1,427,654; Aug. 29.
Thomas, William G., jr., Newark, N. J., assignor to Safepack Mills, Boston, Mass. Floor covering. No. 1,427,655; Aug. 29.
Thompson, Clarance W., and W. J. Quigley, assignors to Riverview Cemetery Company, Wilmington, Del. Burial vault. No. 1,427,243; Aug. 29.
Thompson, John S., San Francisco, Calif., assignor to Mergenthaler Linotype Company. Typographical composing, casting, and distributing machine. No. 1,427,501; Aug. 29.
Thun, Hermann, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Automatic stamp-delivery machine. No. 1,427,136; Aug. 29.
Tibbetts, John C. (See Tibbets, Thomas, assignor.)
Tibbets, Thomas, assignor of three-fourths to J. C. Tibbetts, Ellicott City, Md. Process and apparatus for producing and maintaining a vacuum. No. 1,427,656; Aug. 29.
Timberlake, Joseph C., Wheeling, W. Va. Machine for separating stickers on the opening floors of tin mills. No. 1,427,177; Aug. 29.
Tinsley, Louis C., New York, N. Y. Typographical slug. No. 1,427,706; Aug. 29.
Tobey, Fred W., Grand Rapids, Mich. Metal receptacle. No. 1,427,244; Aug. 29.
Torbensen, Viggo V., assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,427,502; Aug. 29.
Torres-Garcia, Joachim, New York, N. Y. Traveling toy. No. 1,427,657; Aug. 29.
Toro Manufacturing Company. (See Morehouse, Gardner E., assignor.)
Tracy, Halder E., Middletown, Ohio. Gas reclaimer. No. 1,427,337; Aug. 29.
Tréfois, Léon, Brussels, Belgium. Rotary furnace grate. No. 1,427,338; Aug. 29.
Tritle, John E., Schenectady, N. Y., assignor to General Electric Company. Circuit interrupter. (Reissue.) No. 15,441; Aug. 29.
Tscherning, Henry, assignor to Arcade Manufacturing Company, Freeport, Ill. Molding machine. No. 1,427,339; Aug. 29.
Tungsten Products Company, The. (See Bleecker, Warren F., assignor.)
Turnbull, Wallace R., Rothesay, New Brunswick, Canada. Propeller. No. 1,427,178; Aug. 29.
Uckotter, George J. (See English, Andrew J., assignor.)
Underwood Typewriter Company. (See Bates, Harry, assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Union Machinery Company. (See Streich, Paul R., assignor.)
Van Guelpen, Herman A. (See Stuebing, W., jr., and Van Guelpen.)
Variety Fire Door Company. (See Gervais, Wainwright B., assignor.)
Varley Duplex Magnet Company. (See Anderson, James C., assignor.)
Ventre, Henri, New York, N. Y. Closure fastener. No. 1,427,658; Aug. 29.
Vermeulen, Aurele, Los Angeles, Calif. Nonrefillable container. No. 1,427,245; Aug. 29.
Verse, Emil, Chemnitz, assignor to Maschinenfabrik Kappel Aktiengesellschaft, Kappel, Chemnitz, Germany. Shuttle embroidery machine. No. 1,427,564; Aug. 29.
Villochi, John A., assignor of one-half to L. J. Villochi, Easton, Pa. Tire rim. No. 1,427,707; Aug. 29.
Villochi, Louis J. (See Villochi, John A., assignor.)
Vinson, James G., assignor of one-half to R. L. Coleman, Graham, Ky. Trolley harp. No. 1,427,659; Aug. 29.
Vollmer, John, Essen, Germany. Gun barrel with breech piece screwed on A-tubes. No. 1,427,137; Aug. 29.
Voltz Brothers. (See Voltz, Daniel W. and E. C., and Hammel, assignors.)
Voltz, Daniel W. and E. C., and G. E. Hammel, assignors to Voltz Brothers, Chicago, Ill. Autotruck cab. No. 1,427,660; Aug. 29.
Voltz, Edward C. (See Voltz, Daniel W. and E. C., and Hammel.)
Vosseler, Heinrich F. (See Harkness, B. G. A., and Vosseler.)
Waffenfabrik Mauser, Aktiengesellschaft. (See Feederle, Fidel, assignor.)
Wake, Charles H., Los Angeles, Calif. Tooth cleaning and polishing bur. No. 1,427,503; Aug. 29.
Walicki, Ludwig, and C. Bober, New Britain, Conn. Umbrella-handle lighting device. No. 1,427,138; Aug. 29.
Walker, David D., Grandview, Idaho. Strainer. No. 1,427,565; Aug. 29.
Walker, Fred G., assignor to Jones Superior Machine Company, Chicago, Ill. Meat cutter. No. 1,427,661; Aug. 29.
Wallace, David. (See Friedman, L., and Wallace.)
Waller, Carl R., assignor to De Laval Steam Turbine Company, Trenton, N. J. Diaphragm for steam turbines. No. 1,427,179; Aug. 29.
Waller, John A., Highland Park, Ill. Expanded wood lath. No. 1,427,246; Aug. 29.
Ward, Harry E. (See Ward, Harry L. and H. E.)
Ward, Harry L. and H. E., Long Beach, Calif. Low-gear lock and theft-preventing device for automobiles. No. 1,427,662; Aug. 29.
Ware, Archibald J., Birmingham, England, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Folding shelf, shutter, and the like. No. 1,427,663; Aug. 29.
Warner-Patterson Company. (See Whyte, John, assignor.)
Washburn, Herbert L., Laurel Springs, N. J. Apparatus for guiding independently-moving elements. No. 1,427,664; Aug. 29.
Wear, Walter M., and W. L. Drake, Dewar, Okla. Nut lock. No. 1,427,566; Aug. 29.
Wear-Ever Tank & Paint Co. (See Parton, William H., assignor.)
Wegener, Arnold H. (See Wolff, F. J., and Wegener.)
Weis, John A., and F. J. Knorr, New York, N. Y.; said Knorr assignor to said Weis. Airplane. No. 1,427,665; Aug. 29.
Weiss, William, Bayonne, N. J. Safety envelope and opener. No. 1,427,666; Aug. 29.

Welch, Isaac T., Council Bluffs, Iowa. Perpetual-flower urn. No. 1,427,180; Aug. 29.
Wellman-Seaver-Morgan Company, The. (See Case, Arthur F., assignor.)
Western Cartridge Company. (See Rousseau, S., and Yoxall, assignors.)
Westinghouse Electric & Manufacturing Company. (See McAfee, William K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brooks, W. G., and Riley, assignors.)
Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Christman, George L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Christman, G. L., and MacNeill, assignors.)
Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, C. L., and Hanker, assignors.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, C. L., and MacNeill, assignors.)
Westinghouse Electric & Manufacturing Company. (See Jorstad, Osmund M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mills, Chester B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Woodman, William H., assignor.)
Westling, Lester L., Alameda, Calif. Sounding apparatus. No. 1,427,181; Aug. 29.
Weston, Edward B., Dayton, Ohio. Display rack. No. 1,427,248; Aug. 29.
Weston, Edward B., Dayton, Ohio. Display rack. No. 1,427,249; Aug. 29.
Weston, Edward B., assignor to The Weston Paper and Manufacturing Company, Dayton, Ohio. Rack. No. 1,427,247; Aug. 29.
Weston Paper and Manufacturing Company, The. (See Weston, Edward B., assignor.)
West's Gas Improvement Company Limited. (See Wild, William, assignor.)
Weyland, Herman, H. Habl, and R. Berendes, Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Pharmaceutical compound. No. 1,427,182; Aug. 29.
Wheeler, Charles R., Greene, N. Y. Necktie supporter. No. 1,427,139; Aug. 29.
Wheeler, John L., assignor to Simplex Shoe Machinery Company, St. Louis, Mo. Sewing machine. No. 1,427,140; Aug. 29.
Wheeling Steel & Iron Company. (See Peacock, Samuel, assignor.)
Whitcomb, Louie E., Chicago, Ill., assignor to International Harvester Company. Spinning and balling machine. No. 1,427,667; Aug. 29.
White, J. H., Manufacturing Company. (See Kahns, Walter R., assignor.)
Whomes, Francis H. (See Whomes, George and F. H.)
Whomes, George and F. H., Los Angeles, Calif. Metal-faced automobile curtain light. No. 1,427,250; Aug. 29.
Whyte, John, Chicago, Ill., assignor to Warner-Patterson Company. Light-controlling device. No. 1,427,504; Aug. 29.
Whyte, John, Chicago, Ill., assignor to Warner-Patterson Company. Headlight. No. 1,427,505; Aug. 29.
Wild, William, Blackpool, assignor of one-half to West's Gas Improvement Company Limited, Manchester, England. Heating of vertical retorts for the distillation of carbonaceous materials. No. 1,427,426; Aug. 29.
Wilk, Abe, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring seat. No. 1,427,183; Aug. 29.
Williams, Francis H., Boston, Mass. Pliers. No. 1,427,668; Aug. 29.
Williams, William A., assignor to The North British Rubber Company, Limited, Edinburgh, Scotland. Balloon fabric and the like. No. 1,427,708; Aug. 29.
Willys-Overland Company, The. (See Brown, Garnet C., assignor.)
Willys-Overland Company, The. (See Lightner, A. D., and Holmes, assignors.)
Willys-Overland Company, The. (See McCulla, William R., assignor.)
Willys-Overland Company, The. (See Miller, John C., assignor.)
Willeys-Overland Company, The. (See Wilk, Abe, assignor.)
Willstätter, Richard, W. Dulsberg, Munich, and T. Callsen, Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Urethane of the trichloroethylic alcohol. No. 1,427,506; Aug. 29.
Wilson, Edward R., and P. H. Best, Bridgeport, Conn. Toy submarine. No. 1,427,669; Aug. 29.
Wilson, Ray H., New Holland, Ill. Plow. No. 1,427,141; Aug. 29.
Wilmot Engineering Company. (See Steinbach, John J., assignor.)
Winters, Jacob E., Taft, Calif. Clutch and brake control mechanism. No. 1,427,184; Aug. 29.
Wolff, Fredrick J., Newark, and A. H. Wegener, Hoboken, N. J. Rack. No. 1,427,142; Aug. 29.
Wood, Arthur C., Mansfield, Ohio, assignor, by mesne assignments, to The Mansfield Lamp and Manufacturing Company. Light-projection-regulating means. No. 1,427,251; Aug. 29.
Woodman, William H., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Self-lubricating leaf spring. No. 1,427,340; Aug. 29.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,427,143; Aug. 29.
Wylam, Edward G., Taylor, Pa. Demountable rim for vehicle wheels. No. 1,427,670; Aug. 29.
Wynne, George E., assignor of twenty per cent to W. B. Lindsay and twenty per cent to W. L. Lenoir, Lenoir, N. C. Vehicle spring and clip therefor. No. 1,427,144; Aug. 29.
Yano, Junji, Los Angeles, Calif. Alarm for strong boxes. No. 1,427,507; Aug. 29.
Yantz, Franc A., Burlington, Vt. Potato digger. No. 1,427,145; Aug. 29.
Yelser, Leon B., Cleveland, Ohio. Waste and overflow attachment for bathtubs. No. 1,427,567; Aug. 29.
York, Albert, Garfield, Kans. Tractor coupling. No. 1,427,709; Aug. 29.
Young, Arthur P., Kenilworth, England. Magneto-electric machine. No. 1,427,671; Aug. 29.
Yoxall, William. (See Rousseau, S., and Yoxall.)
Zehnbauer, Charles, Jersey City, N. J. Bottle closure. No. 1,427,672; Aug. 29.
Zeitz, Ernest. (See Heindl, Stephen O., assignor.)
Zeppelinwerke Lindau, Gesellschaft mit beschrankter Haftung. (See Dornier, Claudius, assignor.)
Ziegler, Leslie I., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Feeder. No. 1,427,341; Aug. 29.
Zocher, Carl T., Oakland, Calif. Attachment for meat-slicing machines. No. 1,427,710; Aug. 29.
Zoll, Fred, Birmingham, Ala. Core-making machine. No. 1,427,427; Aug. 29.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Abolin, Harry T., Wood Ridge, assignor to Linerusta-Walton Company, Hackensack, N. J. Wall covering in raised relief. Nos. 61,405–7; Aug. 29.
Cartier, Inc. (See Fuchs, Emil, assignor.)
Cawthron, George, Redwood, Calif. Lighting fixture. No. 61,408; Aug. 29.
Chaney Manufacturing Company, The. (See Keogh, Anthony, assignor.)
Chaney Manufacturing Company, The. (See Ward, James E., assignor.)
Cohan-Epner Co. (See Kronburger, Stephen, assignor.)
Dallas Brass & Copper Co. (See Yokel, Frank, assignor.)
Eyben, René, New York, N. Y. Bottle. No. 61,409; Aug. 29.
Fuchs, Emil, assignor to Cartier, Inc., New York, N. Y. Spoon. No. 61,410; Aug. 29.
Fulper, William H., Flemington, N. J. Lamp shade or similar article. No. 61,411; Aug. 29.
Gerchgall, Joseph, Chicago, Ill. Floor lamp. No. 61,412; Aug. 29.
Geringer, Moris. (See Safion, H. A., and Geringer.)
Javal, Fernand, Paris, France. Paper or similar article. No. 61,413; Aug. 29.
Keogh, Anthony, assignor to The Chaney Manufacturing Company, Springfield, Ohio. Thermometer. No. 61,414; Aug. 29.
Klein, Joseph L., St. Louis, Mo. Jug. No. 61,415; Aug. 29.
Kronburger, Stephen, Jersey City, N. J., assignor to Cohan-Epner Co., Inc., New York, N. Y. Combination ash tray and match receptacle. No. 61,416; Aug. 29.
Lincrusta-Walton Company. (See Abolin, Harry T., assignor.)
Lyndon, Claude, Montreal, Quebec, Canada, assignor to G. A. Lyndon. Lamp. No. 61,418; Aug. 29.
Lyndon, Gertrude A. (See Lyndon, Claude, assignor.)
Maier, Wilhelm, Villingen, Germany. Combination clock and music box. No. 61,419; Aug. 29.
Moneypenny, David T., Guthrie, Ky. Statuette. No. 61,420; Aug. 29.
Pittsburgh Lamp, Brass & Glass Company. (See Steffen, Adolf, assignor.)
Przybyla, Walenty M., Pulawski, Mich. Money bag. No. 61,421; Aug. 29.
Rehns, Georges, Paris, France. Bottle. No. 61,422; Aug. 29.
Rome Metallic Bedstead Company. (See Rosenburgh, Ernest L., assignor.)
Rosenburgh, Ernest L., assignor to Rome Metallic Bedstead Company, Rome, N. Y. Bedstead end frame. Nos. 61,423–5; Aug. 29.
Safion, Herman A., and M. Geringer, New York, N. Y. Lighting-fixture arm. No. 61,417; Aug. 29.
Safion, Herman A., and M. Geringer, New York, N. Y. Lighting-fixture arm. No. 61,426; Aug. 29.
Steffen, Adolf, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Electric portable lighting fixture. No. 61,427; Aug. 29.
Ward, James E., assignor to The Chaney Manufacturing Company, Springfield, Ohio. Thermometer. No. 61,428; Aug. 29.
Woodbury, Charles P., Kansas City, Mo. Charm, emblem, badge, button, or article of similar nature. No. 61,429; Aug. 29.
Wunsch, Joseph W., Brooklyn, N. Y. Pair of book ends. No. 61,430; Aug. 29.
Yokel, Frank, Hartford, Conn., assignor to Dallas Brass & Copper Co., Chicago, Ill. Lighting fixture. No. 61,431; Aug. 29.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbott Hardware Co., New York, N. Y. Chemical preparation for cleaning, deodorizing, and disinfecting garbage cans, etc. No. 158,167; Aug. 29.
Albex Optical Co., Reading, Pa. Ophthalmic mountings and parts thereof. No. 158,168; Aug. 29.
Allis-Chalmers Manufacturing Company, Milwaukee and West Allis, Wis. Certain machinery. No. 158,327; Aug. 29.
Alloy Foundry and Machine Corporation, New Rochelle, N. Y. Step plates. No. 158,169; Aug. 29.
American Numbering Machine Company, New York, N. Y. Numbering machines. No. 158,328; Aug. 29.
Ames Safety Envelope Company, The. (See Fitzgerald, John W.)
Automopulos, John D., doing business as United Nut Stores, New York, N. Y. Nuts, figs, dates, and currants. No. 158,170; Aug. 29.
Arcadia Food Company, New York, N. Y. Jelly powders. No. 158,329; Aug. 29.
Armstrong Cork Company, Pittsburgh, Pa. Linoleum, linoleum cork carpet, and certain floor coverings. No. 158,330; Aug. 29.
Arrow Film Corporation, New York, N. Y. Motion pictures. No. 158,171; Aug. 29.
Atlas Specialty Company Inc., Richmond, Va. Table sirup and molasses. No. 158,172; Aug. 29.
B. B. Specialty Co., Pittsburgh, Pa. Certain articles of plumbing and hardware. No. 158,363; Aug. 29.
Balba Corporation of America, Toledo, Ohio. Perfume. No. 158,173; Aug. 29.
Barcalo Manufacturing Company, Buffalo, N. Y. Wrenches, pliers, and socket-wrench sets. No. 158,332; Aug. 29.
Baron, Maurice M., Monterey, Mexico. Sirups for making soft drinks having antifever properties. No. 158,333; Aug. 29.
Bates Manufacturing Company, The, Orange, N. J. Numbering machines. No. 158,174; Aug. 29.
Bear Manufacturing Co., Rock Island, Ill. Antiskid chains. No. 158,175; Aug. 29.
Beard, Lawrence O., Lancaster, Pa. Reamers, pistons, and piston pins. No. 158,334; Aug. 29.
Beautynid Company, The, Cincinnati, Ohio. Certain toilet preparations. No. 158,176; Aug. 29.
Beech-Nut Packing Company. (See Imperial Packing Company, assignor.)
Benedict, T. N., Mfg. Co., East Syracuse, N. Y. Silver-plated tableware and certain precious-metal hollow ware. No. 158,177; Aug. 29.
Bengert, Ray, Kansas City, Mo. Jewelry. No. 158,178; Aug. 29.
Berliner, H. S., trading as The Compo Company, Lachine, Quebec, and Toronto, Canada. Talking machines, talking-machine parts, records, and needles. Nos. 158,179–81; Aug. 29.
Biedka, John P., Brooklyn, N. Y. Medicine for consumption, stomach poisoning, and for a general medicinal tonic. No. 158,182; Aug. 29.
Bird-Archer Company, The, New York, N. Y. Boiler chemicals. No. 158,184; Aug. 29.
Bonovin, Limited, Liverpool, England. Medicated-wine tonic. No. 158,185; Aug. 29.
Boss Washing Machine Company, The, Norwood, Ohio. Washing machines for laundry purposes. No. 158,186; Aug. 29.
Bourjois, A., & Co. Inc., New York, N. Y. Rouge and compact powders. No. 158,187; Aug. 29.
Bourjois, A., & Co. Inc., New York, N. Y. Rouge. No. 158,188; Aug. 29.
Bourjois, A., & Co. Inc., New York, N. Y. Perfumes sold as extracts and lotions. No. 158,189; Aug. 29.
Bourjois, A., & Co. Inc., New York, N. Y. Rouge in the nature of compact and face powder. No. 158,190; Aug. 29.
Bourjois, A., & Co. Inc., New York, N. Y. Rouge, being in the nature of a compact face powder. No. 158,191; Aug. 29.
Bourjois, A., & Co. Inc., New York, N. Y. Rouge, rouge powder, liquid rouge, lip salve, etc. No. 158,192; Aug. 29.
Brokaw, D. D., & Son, New York, N. Y. Finger rings, brooches, bar pins, lavallières, and scarf pins. No. 158,193; Aug. 29.
Bromograph, A.-G. Mannheim, Mannheim, Germany. Chemicals used in photography. Nos. 158,194–6; Aug. 29.
Brooke, Benjamin, & Company, Philadelphia, Pa., assignor to Lever Brothers Company. Laundry soap. No. 21,671; renewed Aug. 23, 1922.
Bruknes, Vincent F., Chicago, Ill. Certain medicinal and toilet preparations. No. 158,196; Aug. 29.
Brunner Woolen Co., Inc., The, New York, N. Y. Serge in the piece. No. 158,335; Aug. 29.
Bruno, C., & Son, Inc., New York, N. Y. Certain named stringed musical instruments and parts thereof. No. 158,198; Aug. 29.
Bryden Horse Shoe Company, Catasauqua, Pa., assignor to Manufacturers Iron & Steel Company. Animal shoes. No. 21,866; renewed Oct. 18, 1922.
Bullinger, H. L., doing business as The Piano Exchange, Los Angeles, Calif. Phonographs. No. 158,183; Aug. 29.
Burnham, E. (See Burnham, Mary.)
Burnham, Mary, trading as E. Burnham, Chicago, Ill. Hair restorer. No. 158,197; Aug. 29.
Card-Martin Co., Jellico, Tenn. Beverages sold as soft drinks and sirup for making the same. No. 158,336; Aug. 29.
Carter, Ralph B., Company, New York, N. Y. Diaphragm pumps. No. 158,199; Aug. 29.
Chinn, Rosa, New Orleans, La. Hair grease, hair oil, and shampoo. No. 158,200; Aug. 29.
Christopher, L. J., Company, Los Angeles, Calif. Ice cream. No. 158,337; Aug. 29.
Citrolene Company, The. (See Swearingen, Carl W.)
City Brass Works Co., Chicago, Ill. Hinges, particularly windshield hinges. No. 158,201; Aug. 29.
Classo Album Company. (See Kasnick, Anton F.)
Colton & Collins, Inc., Oakland, Calif. Internal preparation for the treatment of influenza, lumbago, etc. No. 158,202; Aug. 29.
Compo Company, The. (See Berliner, H. S.)
Cracker Jack Co., The. (See Rueckheim Bros. & Eckstein, assignor.)
Crocker Pen Company, Everett, Mass. Writing ink. No. 158,203; Aug. 29.
Curlox Company. (See Krueger, Albert A.)
Davis, Ethel E., Boston, Mass. Liniment for rheumatism. No. 158,204; Aug. 29.
Defiance Manufacturing Company, New York, N. Y. Calendars. No. 158,238; Aug. 29.
Delson Chemical Co., Inc., The, Brooklyn, N. Y. Medicinal preparation for the treatment and relief of rheumatism, gout, etc. No. 158,205; Aug. 29.
Dickinson, Francis C., et al. (See Foltz, Frederick P., assignor.)
Dickinson, John T., et al. (See Foltz, Frederick P., assignor.)
Diefendorf, Willis H., Syracuse, N. Y. Gears. No. 158,339; Aug. 29.
Dieges & Clust, New York, N. Y. Medals and badges made of or plated with precious metal. No. 158,206; Aug. 29.
Dottenheim, Mark, New York, N. Y. Pearls. Nos. 158,207–8; Aug. 29.
Dougherty, A. (See Dougherty, Andrew, assignor.)
Dougherty, Andrew, New York, N. Y., assignor to A. Dougherty. Playing cards. No. 22,010; renewed Nov. 22, 1922.
Eastern Malt Products Co. (See Robinson, Lettie C.)
Edgar Chemical Company, The, Cleveland, Ohio. Medicines for treatment of colds and analogous diseases. No. 158,209; Aug. 29.
Efficiency Device Corporation, Long Island City, N. Y. Machine wrenches. No. 158,340; Aug. 29.
Elders, H. Will, doing business as Nature's Elixir Co., St. Joseph, Mo. Proprietary medicine for use in treatment of sterility in women. No. 158,210; Aug. 29.
Erickson, Frank E., Duluth, Minn. Constipation pencils. No. 158,212; Aug. 29.
Estes, Clifford W. (See Estes, Webster C., assignor.)
Estes, Webster C., New York, N. Y., assignor to C. W. Estes, Gorham, N. H. Painters' smalt. No. 21,887; renewed Oct. 25, 1922.
Everybody's Talking Machine Company, Philadelphia, Pa. Springs for talking machines. No. 158,213; Aug. 29.
Fairbank, N. K., Company, The. (See Wilcox, W. J., Lard and Refining Company, assignor.)
Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Gasoline and hand-car engines. No. 158,214; Aug. 29.
Ferguson, Walter J., New York, N. Y. Depilatories. No. 158,215; Aug. 29.
Filmusic Company, Los Angeles, Calif. Perforated music rolls or sheets. No. 158,216; Aug. 29.
Fitzgerald, John W., trading as Ames Safety Envelope Company, Boston, Mass. Envelopes, file folders, file pockets. No. 158,217; Aug. 29.
Flannery Bolt Company, Wilmington, Del., and Pittsburgh, Pa. Boiler and semirigid and flexible stay bolts, track, frog, and switch bolts, and nuts. No. 158,342; Aug. 29.
Fleming, H. L., doing business as H. L. Fleming Laboratory. Tooth paste. No. 158,218; Aug. 29.
Fleming, H. L., Laboratory. (See Fleming, H. L.)
Follansbee Brothers Company, Pittsburgh, Pa. Ferrous-metal plates and sheets. Nos. 158,343–4; Aug. 29.
Foltz, Frederick P., assignor to J. T. Dickinson, Abingdon, and F. C. Dickinson, Galesburg, Ill. Liniment and ointment. No. 22,121, renewed Dec. 6, 1922.

Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Deep-well, suction, and displacement pumps and parts thereof. No. 158,219; Aug. 29.
Frank, Maxwell C., Oakland, Calif. Washboards No. 158,220; Aug. 29.
Gans, Louis R., Brooklyn, N. Y. Certain furniture. No. 158,345; Aug. 29.
Gillette Safety Razor Company, Boston, Mass. Safety razors. No 158,346; Aug. 29.
Ginzkey-Maffersdorf, L., Inc., New York, N. Y. Woolen blankets. No. 158,222; Aug. 29.
Glenwood Manufacturing Company. (See Hague, Harry.)
Goodrich, B. F., Company, The, New York, N. Y. Rubber, wood-rim, and vulcanizing cements, etc. No. 158,347; Aug. 29.
Gossage, William, & Sons Limited. (See Gossage, Wm., & Sons, assignors.)
Gossage, Wm., & Sons, Widnes and Liverpool, assignor to William Gossage & Sons, Limited, Widnes, Lancashire, England. Soap. No. 21,918; renewed Nov. 1, 1922.
Gossage, Wm., & Sons, Widnes and Liverpool, assignor to William Gossage & Sons, Limited, Widnes, Lancashire, England. Soap. No. 21,921; renewed Nov. 1, 1922.
Gossage, Wm., & Sons, Widnes and Liverpool, assignor to William Gossage & Son, Limited, Widnes, Lancashire, England. Laundry and toilet soap. Nos. 22,201–2; renewed Dec. 20, 1922.
Gotham Optical Co., Inc., New York, N. Y. Eyeglasses, spectacles, and goggles. No. 158,223; Aug. 29.
Gould, George, doing business as The Nu-Do Process Company, New York, N. Y. Chemical food for yeast plant. No. 158,224; Aug. 29.
Great Western Smelting and Refining Company, Chicago, Ill. Solder. No. 158,348; Aug. 29.
Green, Frances H., doing business as Madame Polly, New York, N. Y. Peppermint astringent. No. 158,225; Aug. 29.
Grinnell Washing Machine Company, Grinnell, Iowa. Washing machines. No. 158,226; Aug. 29.
Hague, Harry, trading as Glenwood Manufacturing Co. Glendale, Calif. Disinfectant. No. 158,227; Aug. 29.
Hallman, Emily, Chicago, Ill. Certain named toilet preparations. No. 158,228; Aug. 29.
Hansen, M. J., Fall River, Wis. Certain medicinal preparations. No. 158,349; Aug. 29.
Harris, Moses H., New York, N. Y. Eyeglasses and spectacles for athletic purposes. No. 158,229; Aug. 29.
Harris-Stephenson, De Ridder, La. Electrolyte compound. No. 158,230; Aug. 29.
Henry Tetlow Company. (See Tetlow, Ida J.)
Hershey Manufacturing Company, Denver, Colo. Locks for automobiles. No. 158,231; Aug. 29.
Hohner, Matth Actien-Gesellschaft, Trossingen, Germany. Accordions. No. 158,258; Aug. 29.
Hurley Machine Company, Chicago, Ill. Metal clothes containers for washing machines. No. 158,232; Aug. 29.
Imperial Packing Company, Canajoharie and New York, N. Y., assignor to Beech-Nut Packing Company. Hams and bacon. No. 19,838; renewed July 7, 1921.
Indian Remedy Company, Brockton, Mass. Blood medicine used in the treatment of gonorrhea and clap and asthma medicine. No. 158,233; Aug. 29.
International Bedding Co. Inc., Baltimore, Md. Box springs. No. 158,234; Aug. 29.
Irongland Company, San Francisco, Calif. Medicinal tonic tablet. No. 158,235; Aug. 29.
Jacobs & McCafferty, Brooklyn, N. Y., assignors to James A. McCafferty & Sons Manufacturing Company, Inc. White lead. No. 22,066; renewed Nov. 29, 1922.
Jefferson, Ida B., Longview, Tex. Certain named medicinal, pharmaceutical, and toilet preparations. No. 158,236; Aug. 29.
Jewel Phonoparts Company, Chicago, Ill. Diaphragms for phonograph reproducers. No. 158,237; Aug. 29.
Jourlon, Alexis, Brussels, Belgium. Perfumery. No. 158,238; Aug. 29.
Julian, Roger, doing business as The Quinoids, Brooklyn, N. Y. Hair tonics, perfumes, etc. No. 158,239; Aug. 29.
Kasnick, Anton F., doing business as Classo Album Company, Elmhurst, Ill. Phonograph-record albums. No. 158,240; Aug. 29.
Keene, Charles A., New York, N. Y. Artificial pearls, necklaces, bracelets, brooches, etc. Nos. 158,241–2; Aug. 29.
Kilchenmann Frères, La Chaux-de-Fonds, Switzerland. Watches and parts of watches. No. 158,221. Aug. 29.
Knickerbocker Case Company, Chicago, Ill. Cases and bags for holding merchandise samples, instruments, and tools. No. 158,350; Aug. 29.
Krueger, Albert A., doing business as Curlox Company, St. Louis, Mo. Hair shampoo. No. 158,243; Aug. 29.
Laabs, Georg, Schonhausen a. Elbe, Germany. Ointment for the treatment of certain named diseases. No. 158,244; Aug. 29.
Langley & Michaels Co., San Francisco, Calif. Massage alcohol. No. 158,245; Aug. 29.
Langley & Michaels Co., San Francisco, Calif. Rubbing alcohol. No. 158,246; Aug. 29.
Langmann, V., Inc., New York, N. Y. Olive oil. No. 158,247; Aug. 29.
Leon Maurice Laboratories, Montgomery, Ala. Certain medicinal and toilet preparations. No. 158,259; Aug. 29.
Lester & Wasley Company, The. (See Lester & Wasley, assignors.)
Lester & Wasley, Norwich, Conn., assignors to The Lester & Wasley Company, Incorporated. Machinery for pasting and folding envelopes and making paper boxes. No. 22,074; renewed Nov. 29, 1922.
Lever Brothers Company. (See Brooke, Benjamin & Company, assignor.)
Lewis, R. Milton, Company, Detroit, Mich. Medicines for the treatment of tuberculosis. No. 158,248; Aug. 29.
Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation for use as a heart tonic or stimulant. No. 158,211; Aug. 29.
Lindsey, Walter, Toronto, Ontario, Canada. Blood and nerve tonic in tablet form. No. 158,249; Aug. 29.
Little Giant Company, Mankato, Minn. Certain laundry appliances. No. 158,250; Aug. 29.
Louis, Otto F., Bay City, Mich. Poultices and plasters for the treatment of boils, burns, etc. No. 158,251; Aug. 29.
Lourmay, Inc., New York, N. Y. Rouge, cold cream, lip stick, toilet water, etc. No. 158,252; Aug. 29.
Ludwig Hupfeld Aktiengesellschaft, Bohlitz-Ehrenberg, Germany. Certain musical instruments and supplies. No. 158,253; Aug. 29.
Lyndon Chemical Company, The, Dayton, Ohio. Veterinary ointment. No. 158,254; Aug. 29.
McCabe, Patrick H., Chicago, Ill. Booklet or house organ. No. 158,351; Aug. 29.
McCafferty & Sons Manufacturing Company. (See Jacobs & McCafferty, assignors.)
McKeon, J. H., Ph. G., Better Health Products. (See McKeon, John H.)
McKeon, John H., trading as J. H. McKeon, Ph. G., Better Health Products, Holyoke, Mass. Laxative. No. 158,255; Aug. 29.
Magic Nail Polish Co., New York, N. Y. Nail-polish liquid, powder, and cake. No. 158,256; Aug. 29.
Manufacturers Iron & Steel Company. (See Bryden Horse Shoe Company, assignor.)
Marshall Field & Company, Chicago, Ill. Electric lamps. No. 158,352; Aug. 29.
Marx, Louis N., New York, N. Y. Imitation-pearl necklaces. No. 158,257; Aug. 29.
May Department Stores Company, The, St. Louis, Mo. Imitation pearls. No. 158,260; Aug. 29.
Melodia Phonograph Co., Chicago, Ill. Phonographs. No. 158,261; Aug. 29.
Memphis Packing Corporation, Memphis, Tenn. Smoked meats and lard. No. 158,353; Aug. 29.
Mentz, Howard H., D. D. S., Gustine, Calif. Mouth washes, tooth powder and paste. No. 158,354; Aug. 29.
Meyer & Stüdeli, Société Anonyme, Soleure, Switzerland. Watches, clocks, and parts thereof. No. 158,262; Aug. 29.
Michle Printing Press & Manufacturing Company, Chicago, Ill. Printing presses. No. 158,263; Aug. 29.
Miller, Joseph E., Inc., Providence, R. I. Certain jewelry. No. 158,264; Aug. 29.
Miller, Max, Brooklyn, N. Y. Hair tonics, shampoo, hair pomade. No. 158,355; Aug. 29.
Mittelstaedt, Edward L., doing business as Mocq, Burnier & Cie., Inc., New York, N. Y. Perfume extracts and toilet waters. No. 158,265; Aug. 29.
Mocq, Burnier & Cie., Inc. (See Mittelstaedt, Edward L.)
Morrissey, E. A., Company, Boston, Mass. Medicinal tonics for bronchial troubles, colds, etc. No. 158,266; Aug. 29.
Mott, J. L., Company, Trenton, N. J. Seats and covers for water closets. No. 158,267; Aug. 29.
Müller, Hermann, Halle Saale, Germany. Razors, certain knives, scissors, etc. No. 158,268; Aug. 29.
Mundy, Judson, Cleveland, Ohio. Certain locomotives, valve gearing, steam engines, and metal-working machinery. No. 158,269; Aug. 29.
National Store Specialty Company, Bareville, Pa. Computing scales. No. 158,356; Aug. 29.
Nature's Elixir Co. (See Elders, H. Will.)
Ner-A-Car Corporation, Syracuse, N. Y. Motor cycle. No. 158,270; Aug. 29.
Neuhoff, Fred B., Los Angeles, Calif. Canned fruits and vegetables. No. 158,357; Aug. 29.
North American Hygienic Company, Inc., The, San Juan, P. R. Dentifrice. No. 158,271; Aug. 29.
Nu-Do Process Company, The. (See Gould, George.)
Odorono Company, The, Cincinnati, Ohio. Depilatories. No. 158,272; Aug. 29.
Ohio Valley Bottling Works, Cincinnati, Ohio. Nonalcoholic, noncereal, maltless beverages. No. 158,273; Aug. 29.
Operaphone Co., Inc., New York, N. Y. Phonograph instruments and records. No. 158,274; Aug. 29.
Palmer, W. R., & Co. (See Palmer, Walter C.)
Palmer, Walter C., doing business as W. R. Palmer & Co., Cincinnati, Ohio. Washboards. No. 158,275; Aug. 29.
Palmer, Walter C., doing business as W. R. Palmer & Co., Cincinnati, Ohio. Mops. No. 158,358; Aug. 29.
Pannett & Neden, London, England. Pomatum dressing for the hair. No. 158,276; Aug. 29.
Parke, Davis & Company, Detroit, Mich. Germicides and antiseptics. No. 158,277; Aug. 29.
Parr Electric Co. Inc., New York, N. Y. Friction tape and splicing compound. No. 158,359; Aug. 29.
Patten Manufacturing Company, Chattanooga, Tenn. Air pumps. No. 158,278; Aug. 29.

Pauline Mills, Inc., Kings Mountain, N. C. Mercerized cotton damask in the piece. Nos. 158,360–1; Aug. 29.
Perfek'tone Corporation, The, Philadelphia, Pa. Talking machines and parts. No. 158,279; Aug. 29.
Perrin, Arthur, Brookline, Mass. Binocular telescopic instruments. No. 158,280; Aug. 29.
Perrin, Arthur, Brookline, Mass. Binocular optical instruments. No. 158,281; Aug. 29.
Philo Hay Company, The, Newark, N. J. Tonic for use in cases of nervous exhaustion, weakened vitality, etc. No. 158,282; Aug. 29.
Piano Exchange, The. (See Bullinger, H. L.)
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Change-speed transmissions and parts thereof. No. 158,283; Aug. 29.
Polly, Madame. (See Green, Frances H.)
Porter, Arthur L., New York, N. Y. Powder for foot baths. No. 158,284; Aug. 29.
Quinoids Company. (See Roger, Julian.)
Quinorient Company, Inc., New York, N. Y. Hair tonic. No. 158,285; Aug. 29.
Redpath, Cargill W., Kansas City, Mo. Laxative. No. 158,286; Aug. 29.
Reeves, Percy, Chicago, Ill. Cut-out dolls. No. 158,362; Aug. 29.
Roach, W. R., & Co., Hart, Mich. Canned vegetables. No. 158,288; Aug. 29.
Robinson, Lettie C., doing business as Eastern Malt Products Co., Concord, N. Y. Malt sirup used as a food product. No. 158,289; Aug. 29.
Romero, Rafael, Tucson, Ariz. Candy. No. 158,287; Aug. 29.
Rueckheim Bros. & Eckstein, Chicago, assignor to The Cracker Jack Co., Peoria, Ill. Chocolate bars. No. 158,290; Aug. 29.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 158,291; Aug. 29.
Samstag & Hilder Bros., New York, N. Y. Scissors. No. 158,292; Aug. 29.
Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Articles of iron and steel manufacture. Nos. 158,293–4; Aug. 29.
Schwartz, Jacob, New York, N. Y. Certain musical instruments and parts thereof. No. 158,295; Aug. 29.
Scientific Research Laboratories, Milwaukee, Wis. Tooth cream. No. 158,296; Aug. 29.
Scientific Research Laboratories, Milwaukee, Wis. Tooth powder. No. 158,297; Aug. 29.
Sears and Nichols Canning Co., The, Chillicothe, Ohio. Canned vegetables. No. 158,298; Aug. 29.
Shuit, W. E., Incorporated, Passaic, N. J. Medicinal preparations for colds, influenza, and la grippe. No. 158,299; Aug. 29.
Sigmund Ullman Co., New York, N. Y. Printing inks. No. 158,300; Aug. 29.
Sinclare, A. C., Co., New York, N. Y. Chemical rust remover. No. 158,301; Aug. 29.
Snider & Cazel, Wilmette, Ill. Fudge. No. 158,302; Aug. 29.
Société P. & A. Picard, Paris, France. Steel mortise and rim locks. No. 158,303; Aug. 29.
Sozol Limited, London, England. Anticorrosive chemical compositions or compounds. No. 158,304; Aug. 29.
Spatola, Felix, & Sons, Philadelphia, Pa. Canned fruits and vegetables, salad oil, cocoa, and shortening. No. 158,341; Aug. 29.
Spoon Products, The. (See Witherspoon, Thomas S.)
Stock, Bane, New Haven, Conn. Wash trays. No. 158,331; Aug. 29.
Superior Brass N. C., New York, N. Y. Bathroom shelving, cup, soap, towel, and toilet-paper racks, garment hooks. No. 158,305; Aug. 29.
Swearingen, Carl W., doing business as The Citroline Company, Los Angeles, Calif. Face creams and lotions. No. 158,306; Aug. 29.
Swearingen, J. C., Ink Co., Pittsburgh, Pa. Writing and printing inks. No. 158,307; Aug. 29.
Terry, George W., Greenfield, Mass. Compound for the treatment of barbers' itch, poison ivy, dogwood poison, and skin disease, etc. No. 158,308; Aug. 29.
Tetlow, Ida J., trading as Henry Tetlow Company. Toilet preparations. No. 158,309; Aug. 29.
Thomas Company, Philadelphia, Pa. Antileak compound. No. 158,310; Aug. 29.
Torrence, James S., San Francisco, Calif. Shears and scissors. No. 158,364; Aug. 29.
Tuckett Tobacco Company, The, Hamilton, Canada. Cigars. No. 158,365; Aug. 29.
Tuckett Tobacco Company, The, Hamilton, Canada. Cigars, cigarettes, smoking and chewing tobacco. No. 158,366; Aug. 29.
United Fig & Date Co., Chicago, Ill. Salted nuts and nut lunch. No. 158,367; Aug. 29.
United Nut Stores. (See Antonopulos, John D.)
Universal Battery Company, Chicago, Ill. Certain electrical apparatus. No. 158,311; Aug. 29.
Van Vleet-Mansfield Drug Co., Memphis, Tenn. Carbolic ointment, eye and pile salves. No. 158,312; Aug. 29.
Vereinigte Chininfabriken Zimmer & Co., Gesellschaft mit beschränkter Haftung, Frankfort-on-the Main, Germany. Bactericide and antiseptic preparations. Nos. 158,313–14; Aug. 29.
Viner, Burpee F., Hartford, Conn. Certain brushes, mops, and dusters. No. 158,368; Aug. 29.
Vital Sanando Co., Inc., The, New York, N. Y. Liquid for dissolving and removing without pain gallstones from the human body. No. 158,315; Aug. 29.
Vital Sanando Co., Inc., The, New York, N. Y. Liquid for liver, stomach, and bowel troubles. No. 158,316; Aug. 29.
Webers, Milwaukee, Wis. Candy. No. 158,369; Aug. 29.
Weichsel Laboratories, Dallas, Tex. Chemical preparation for application on face and designed to remove wrinkles and increase the blood circulation. No. 158,317; Aug. 29.
Weiner, Alphonse W., Inc., New York, N. Y. Certain named jewelry and precious-metal ware. No. 158,318; Aug. 29.
Weldon, Williams & Lick, Fort Smith, Ark. Theater tickets. No. 158,370; Aug. 29.
Wenglein's, H. J., Norica & Herold-Werke Nurnberg-Schwabacher Nadelfabriken G. m. b. H., Nuremberg, Germany. Gramophone needles. No. 158,319; Aug. 29.
Weser Bros. Inc., New York, N. Y. Pianos, player pianos, phonographs. No. 158,320; Aug. 29.
Wilcox, W. J., Lard and Refining Company, The, Guttenberg, N. J., and New York, N. Y., assignor to The N. K. Fairbank Company. Lard and its substitutes. Nos. 21,438–41; renewed July 12, 1922.
Wilcox, W. J., Lard and Refining Company, The, Guttenberg, N. J., and New York, N. Y., assignor to The N. K. Fairbank Company. Lard and its substitutes. No. 21,603; renewed Aug. 9, 1922.
Wilcox, W. J., Lard and Refining Company, The, Guttenberg, N. J., and New York, N. Y., assignor to The N. K. Fairbank Company. Lard and its substitutes. No. 21,675; renewed Aug. 23, 1922.
Wilcox, W. J., Lard and Refining Company, The, Guttenberg, N. J., and New York, N. Y., assignor to The N. K. Fairbank Company. Lard and its substitutes. No. 21,980; renewed Nov. 15, 1922.
Winthrop Chemical Company Inc., New York, N. Y. Certain named medicinal preparations. No. 158,321; Aug. 29.
Witherspoon, Thomas S., doing business as The Spoon Products, Denver, Colo. Carbon remover. No. 158,322; Aug. 29.
Witte, Alexis Cutlery Co., New York and Brooklyn, N. Y. Razors, scissors, and hair clippers. No. 158,326; Aug. 29.
Woman's Mutual Benefit Company, The, Joliet, Ill. Certain named medicinal preparations. No. 158,323; Aug. 29.
Wright, George D., Corporation, Dover, Del., and New York, N. Y. Dyes. No. 158,324; Aug. 29.
Zinc loros Chemical Company, Denver, Colo. Mouth wash. No. 158,325; Aug. 29.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Advance Automobile Accessories Corp., Chicago, Ill. "Advance Cork Feltbak." (For Cartons Containing Transmission Linings.) No. 24,902; Aug. 29.
Akins, Stephen A., Kansas City, Mo. "Dandy Handy." (For Automobile Antiskid Chains and Containers Therefor.) No. 24,903; Aug. 29.
Balme, Paul, doing business as B. Paul, New York, N. Y. "B. Paul's Henna." (For Hair Dye.) No. 24,904; Aug. 29.
Barnet Leather Co. Inc., New York, N. Y. "Victoria Brown." (For Calf Leather.) No. 24,905; Aug. 29.
Barron, Percy L., Los Angeles, Calif. "Baron's Sulphiron." (For Bottles and Packages of Mineralized Water.) No. 24,906; Aug. 29.
Blumbery, Michael, doing business as the Crown Coloring & Chemical Co., New York, N. Y. "Crown Coloring & Chemical Co." (For Liquid Paints for Incandescent Lamps.) No. 24,907; Aug. 29.
Campbell Paper Box Company, South Bend, Ind. "Pure Gold Brand Creamery Butter." (For Cartons Serving as Containers for Butter.) No. 24,908; Aug. 29.
Chalet Chocolate Corporation, New York, N. Y. "Chalet Egg-Milk Chocolate." (For Packages of Chocolate.) No. 24,909; Aug. 29.
Citrus Soap Company of California, San Diego, Calif. "California Citrus Soap Powder." (For Soap Powder and Washing Powder.) No. 24,910; Aug. 29.
Climax Dairy Co. (See Menasha Printing and Carton Company, assignor.)
Crown Coloring & Chemical Co. (See Blumbery, Michael.)
Crystal Ice Hold Storage Co., Portland, Oreg. "Weatherly." (For Ice Cream.) No. 24,911; Aug. 29.
Deshell Laboratories, Inc., Los Angeles, Calif. "Petrolagar." (For a Remedy for Constipation.) No. 24,912; Aug. 29.
Director, Hyman, Los Angeles, Calif. "Sun Tex." (For Outdoor Apparel.) No. 24,926; Aug. 29.
Far Rockaway Candy Company, Far Rockaway, N. Y. "Freez O Pop." (For Confections as a Wrapper.) No. 24,913; Aug. 29.
Fort Harrison Sales Co., Terre Haute, Ind. "Master Seal 2 in 1." (For Auto Tube Patch Outfits.) No. 24,914; Aug. 29.
Glemby's, S., Sons Co. Inc., New York, N. Y. Lola Real Hair Net." (For Hair Nets.) No. 24,915; Aug. 29.
Glemby's, S., Sons Co. Inc., New York, N. Y. "Audry Hair Net." (For Hair Nets.) No. 24,916; Aug. 29.
Glemby's, S., Sons Co. Inc., New York, N. Y. "Myro." (For Hair Nets.) No. 24,917; Aug. 29.
Hartzell, Blanche K., Youngstown, Ohio. "Melto." (For Packages Containing Reducing Cream.) No. 29,918; Aug. 29.
Hearn, James A., & Son Inc., New York, N. Y. "Calcident." (For Tooth Paste.) No. 24,919; Aug. 29.
Heller, B., & Company, Chicago, Ill. "$1000.00 Guaranteed Ozo Waste Pipe Opener." (For Receptacles Containing $1000.00 Guaranteed Ozo Waste-Pipe Opener, a Preparation for Opening Stopped-Up Pipes.) No. 24,922; Aug. 29.
Holcomb & Hoke Manufacturing Co., Indianapolis, Ind. "H. & H. Butter-Kist Pop Corn." (For Pop-Corn Cartons.) No. 24,923; Aug. 29.
Hollis, Adolph, doing business as Hollis Malt Products Supply, Brooklyn, N. Y. "Owl Brand Malt Syrup." (For Glass Bottles, Cans, Tins, and Any Other Receptacles Containing Said Malt Syrup.) No. 24,924; Aug. 29.
Hollis Malt Products Supply. (See Hollis, Adolph.)
Hoye, Stephen M., doing business as Ka-Zu Beverage Co. Inc., New York and Brooklyn, N. Y. "(Ka-Zu)." (For Extracts, Sirups, and Beverages.) No. 24,925; Aug. 29.
Kadlac, Adolph G., Long Branch, N. J. "Hollywood." (For Mayonnaise.) No. 24,927; Aug. 29.
Ka-Zu Beverage Co. Inc. (See Hoye, Stephen M.)
Kaempfer's Incorporated, Chicago, Ill. "Kaempfer's Canary Highball." (For a Bird Food and Tonic.) No 24,928; Aug. 29.
Kern, George, Inc., New York, N. Y. "Kern's Sugar Cured Sliced Bacon." (For Sliced Bacon.) No. 24,929; Aug. 29.
Lake Yale Orange Company, Gainesville, Fla. "Orange Blossom Marmalade." (For Orange Marmalade.) No. 24,930; Aug. 29.
Lapres, Theo. J., Inc., Atlantic City, N. J. "Fralinger's Original Salt Water Taffy." (For Boxes Containing Salt-Water Taffy.) No. 24,931; Aug. 29.
Lapres, Theo. J., Inc., Atlantic City, N. J. "Lapres' Midget Salt Water Gems." (For Boxes Containing Miniature Salt-Water Taffy.) No. 24,932; Aug. 29.
Linton and Company, Chicago, Ill. "Heron Crepe Tissue." (For Toilet-Paper Rolls.) No. 24,933; Aug. 29.
Linton and Company, Chicago, Ill. "Yap Crepe Tissue." (For Toilet-Paper Rolls.) No. 24,934; Aug. 29.
Louisville Coffee Company, Louisville, Ky. "Freckles." (For Popped-Corn and Nut Confection.) No. 24,935; Aug. 29.
Lovell-Buffington Tobacco Co., Covington, Ky. "C. B. High Grade Smoking Mixture." (For Smoking Tobacco.) No. 24,936; Aug. 29.
Marsh, Edward, Washington, D. C. "Tilt." (For a Game for Children.) No. 24,937; Aug. 29.
McHarg, Sidney, Calexico, Calif. "Champagne." (For Cantaloupes.) No. 24,938; Aug. 29.
McKee-Marks Cigar Co., Ottumwa, Iowa. "Yellow Cab." (For Cigars.) No. 24,939; Aug. 29.
Menasha Printing and Carton Company, Menasha, Wis., assignor to The Wells-Chief Creamery Co., Crestline, Ohio. "C. O. Wells Country Club Brand." (For Cartons Containing Butter.) No. 24,940; Aug. 29.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Climax Dairy Co., Denver, Colo. "Climax." (For Cartons Containing Ice Cream.) No. 24,941; Aug. 29.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Michigan Butter & Egg Co., Lansing, Mich. "Palmas Altas Golden Sheaf." (For Cartons Containing Butter.) No. 24,942; Aug. 29.
Michigan Butter & Egg Co. (See Menasha Printing and Carton Company, assignor.)
Milwaukee Paper Box Company, Milwaukee, Wis. "Cherries in Cordial." (For Boxes Containing Chocolate-Covered Cherries in Cordial.) No. 24,943; Aug. 29.
Mizell-Evans Co. (See Mizell, L. M.)
Mizell, L. M., doing business as Mizell-Evans Syrup Co. and Mizell-Evans Co., Live Oak, Fla. "Suwannee." (For Sirup.) No. 24,944; Aug. 29.
Mizell-Evans Syrup Co. (See Mizell, L. M.)
Morris, Mann & Reilly, Inc., Chicago, Ill. "Mi-Lady A Real Hair Net." (For Hair Nets.) Nos. 24,945–56; Aug. 29.
New Richmond Roller Mills Co., New Richmond, Wis. "Vitamin." (For Whole-Wheat Flour.) No. 24,957; Aug. 29.
Pani, B. (See Balme, Paul.)
Pleasant Valley Farms and Morey Condensery Company, North Prairie, Wis. "Wisconsin Farms' Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) No. 24,958; Aug. 29.
Pleasant Valley Farms and Morey Condensery Company, North Prairie, Wis. "Guernsey Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) No. 24,959; Aug. 29.
Pleasant Valley Farms and Morey Condensery Company, North Prairie, Wis. "Pleasant Valley Farms' Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) No. 24,960; Aug. 29.
Price Flavoring Extract Company, Chicago, Ill. "Dr. Price's Pure Paprika." (For Containers for Paprika.) No. 24,961; Aug. 29.
Price Flavoring Extract Company, Chicago, Ill. "Dr. Price's Pure Ground Black Pepper." (For Containers for Black Pepper.) No. 24,962; Aug. 29.
Reading Cigar Co. Inc., The, Reading, Pa. "Trilby." (For Boxes and Cans Containing Cigars.) No. 24,963; Aug. 29.
Remington Arms Company, Inc., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. "Brant Load." (For Loaded Shot Shells.) No. 24,964; Aug. 29.
Remington Arms Company, Inc., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. "Duck Load." (For Loaded Shot Shells.) No. 24,965; Aug. 29.
Remington Arms Company Inc., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. "Goose Load." (For Loaded Shot Shells.) No. 24,966; Aug. 29.
Remington Arms Company, Inc., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. "Squirrel Load." (For Loaded Shot Shells.) No. 24,967; Aug. 29.
Remington Arms Company, Inc., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. "Heavy Duck Load." (For Loaded Shot Shells.) No. 24,968; Aug. 29.
Schneider, Battinus & Simon, Chicago, Ill. "Lady Wear." (For Hair Nets.) No. 24,969; Aug. 29.
Scott Paper Company, Chester, Pa. "Scottissue Towels." (For Paper Towels.) No. 24,970; Aug. 29.
Scott Paper Company, Chester, Pa. "Scottissue Towel Holder No. 03." (For Paper Towels.) No. 24,971; Aug. 29.
Silver Eagle Cigar Factory, Los Angeles, Calif. "Don Domo." (For Boxes and Cans Containing Cigars.) No. 24,972; Aug. 29.
Smith-Mills Manufacturing Company, Billings, Mont. "Bayjella." (For Medicinal Beautifier Salve for External Use.) No. 24,973; Aug. 29.

Steiner, Emil E., Glendale, Calif. "Vegetine." (For a Stomach Relief Remedy.) No. 24,974; Aug. 29.
Swander Baking Company, Rapid City, S. Dak. "Brownie." (For Bread.) No. 24,975; Aug. 29.
Sweets Company of America, Inc., The, Richmond, Va., and New York, N. Y. "Tootsie Wintergreen." (For Candy Mints with Wintergreen Flavor.) No. 24,976; Aug. 29.
Sweets Company of America, Inc., The, Richmond, Va., and New York, N. Y. "Tootsie Peppermint." (For Candy Mints Flavored with Peppermint.) No. 24,977; Aug. 29.
True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery for Men.) No. 24,978; Aug. 29.
True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery for Ladies.) No. 24,979; Aug. 29.
True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery for Men.) No. 24,980; Aug. 29.
True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery for Ladies.) No. 24,981; Aug. 29.)
Wells-Chief Creamery Co., The. (See Menasha Printing and Carton Company, assignor.)
White Sulphur Springs, Inc., White Sulphur Springs, W. Va. "White Sulphur Springs Water." (For Mineral Water.) No. 24,982; Aug. 29.
Wills, George, and Sons, Ltd., London, England, and San Francisco, Calif. "Visible." (For Canned Apricots.) No. 24,983; Aug. 29.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Barber, W. H., Company, Minneapolis, Minn. "Fyre-drop." (For Advertising Purposes for Gasoline.) No. 6,272; Aug. 29.
Channel Fence Company, Inc., Lake Charles, La. "Channell Fence Company, Inc." (For Advertising Purposes for a Combination Wood and Wire Fence.) No. 6,273; Aug. 29.
Cohn, Louis I., doing business as Stays Neat Mattress Company, Philadelphia, Pa. "Stays Neat." (For Advertising Purposes for Mattresses.) No. 6,274; Aug. 29.
Emery & Beers Company, Inc., New York, N. Y. "Pointex." (For Advertising Purposes for Hosiery.) No. 6,275; Aug. 29.
Enterprise Manufacturing Company, The, Akron, Ohio. "Standing Fisherman." (For Advertising Purposes for Fishing Tackle.) No. 6,276; Aug. 29.
Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean With Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) Nos. 6,277–8; Aug. 29.
Hanson Brothers Scale Company, Chicago, Ill. "Handy Hanson." (For Advertising Purposes for Scales.) No. 6,279; Aug. 29.
Hatch Advertising and Sales Service, Troy, N. Y. "Great Loaf." (For Advertising Purposes for Bread.) No. 6,280; Aug. 29.
Haynes Automobile Company, The, Kokomo, Ind. "A Haynes 75 for every motoring travel requirement." (For Advertising Purposes for Automobiles.) No. 6,281; Aug. 29.
Hearn, James A., & Son, Inc., New York, N. Y. "Hearn Baby Castile." (For Advertising Purposes for Soap.) No. 6,282; Aug. 29.
Milwaukee Paper Box Company, Milwaukee, Wis. "Peth's Candy Bars." (For Advertising Purposes for Candy Bars.) No. 6,283; Aug. 29.
Milwaukee Paper Box Company, Milwaukee, Wis. "Teckemeyer's Menthol Hoarhound." (For Advertising Purposes for Menthol Horehound Drops.) No. 6,284; Aug. 29.
Palmolive Company, The, Milwaukee, Wis. "Would your husband marry you again?" (For Advertising Purposes for Palmolive Soap.) No. 6,285; Aug. 29.
Palmolive Company, The, Milwaukee, Wis. "Moments Which Count." (For Advertising Purposes for Palmolive Soap.) No. 6,286; Aug. 29.
Palmolive Company, The, Milwaukee, Wis. "Why fade at 30?" (For Advertising Purposes for Palmolive Soap.) No. 6,287; Aug. 29.
Plumb, Fayette R., Inc., Philadelphia, Pa. "Plumb Double Life." (For Advertising Purposes for Files.) No. 6,288; Aug. 29.
Pratt, B. G., Company, New York, N. Y. "The Complete Dormant Spray." (For Advertising Purposes for Scalecide for the Protection of Trees Against Insects and Fungous Growths.) No. 6,289; Aug. 29.
Stays Neat Mattress Company. (See Cohn, Louis I.)
Watkins, R. L., Company, The, Cleveland, Ohio. "Beauty Wins." (For Advertising Purposes for Coconut-Oil Shampoo.) No. 6,290; Aug. 29.
Watkins, R. L., Company, The, Cleveland, Ohio. "Always Charming!" (For Advertising Purposes for Coconut-Oil Shampoo.) No. 6,291; Aug. 29.
Wetmore, S. H., Company, The, New York, N. Y. "A Man's Story To Men!" (For Advertising Purposes for Suspensories.) No. 6,292; Aug. 29.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adams, Fred D., doing business as Adams Publishing Company, Waterloo, Iowa. Monthly publication. No. 164,623; Aug. 29.
Adams Publishing Company. (See Adams, Fred D.)
Alabama By-Products Corporation, Birmingham and Tarrant, Ala. Ammonia and benzol. No. 156,818; Aug. 29.
Allied Belting Company, The, Greenville, Ohio. Canvas belting. No. 162,279; Aug. 29.
Allison, Charles W., Charlotte, N. C. Pipe linings and coverings formed of heat-insulating material. No. 159,829; Aug. 29.
American Auto Lamp Co., Inc., New York, N. Y. Electric automobile lamps. No. 151,527; Aug. 29.
America Crucible Products Company, The. (See Ryan, Allan C.)
American Hard Rubber Company, Hempstead and New York, N. Y. Battery jars, panels, covers, and vents, plate separators, etc. No. 164,214; Aug. 29.
American Lady Corset Co., Detroit, Mich. Corsets, brassières, girdles, belts, etc. No. 160,911; Aug. 29.
American Products Company, The. (See Mills Brothers Company, The.)
Anderson, A. W., Corporation, New York, N. Y. Cedar wood used in lining closets. No. 164,625; Aug. 29.
Apex Electrical Manufacturing Co., The, Cleveland, Ohio. Electrically-operated dish washers and suction cleaners. No. 157,352; Aug. 29.
Asp-a-lax Company, Des Moines, Iowa. Liquid preparation containing asperin. No. 163,428; Aug. 29.
Audiola Radio Company, Chicago, Ill. Radio and wireless telephone equipment. No. 163,304; Aug. 29.
Baldwin, Henry P., Ltd., Lahaina, Hawaii. Canned pineapple. No. 157,911; Aug. 29.
Barclay & Co., Wilmington, Del., and New York, N. Y. Soap. No. 164,534; Aug. 29.
Barish, Meyer, doing business as Meyer Barish Mfg. Co., New York, N. Y. Cotton piece goods and piece goods of cotton and silk mixtures. No. 161,577; Aug. 29.
Barish, Meyer, Mfg. Co. (See Barish, Meyer.)
Barozzi Drying Machine Co. (See Barozzi, G. E.)
Barozzi, G. E., doing business as Barozzi Drying Machine Co., San Francisco, Calif. Drying machines for drying fruit. No. 159,551; Aug. 29.
Barrett & Barrett, St. Paul, Minn. Water softener. No. 163,376; Aug. 29.
Barrett Company, New York, N. Y. Mineral-surfaced roll roofing. No. 160,229; Aug. 29.
Batesville Lumber & Veneer Co., Lawrenceburg, Ind. Veneer panels for use in manufacture of furniture, plywood, and lumber. No. 152,780; Aug. 29.
Bay State Corset Company, Springfield, Mass. Corsets. No. 159,490; Aug. 29.
Beckwith Company, The, Reedley, Calif. Preserved fruits—viz, figs. No. 160,391; Aug. 29.
Bell, Dr., Medicine Company, The, Louisville, Ky., and New York, N. Y. Medicinal preparations for the treatment of coughs, colds, etc. No. 139,247; Aug. 29.
Belton Mills, Belton, S. C. Sheetings. No. 158,754; Aug. 29.
Binney & Smith Company, East Orange, N. J., and New York, N. Y. Stenceling and marking ink. No. 150,652; Aug. 29.
Blakeney, John G., doing business as The Sniff-Bang Company, Syracuse, N. Y. Medicinal preparation for the treatment of colds, grippe, and catarrh. No. 163,568; Aug. 29.
Booth, Wilfrid I., Elmira, N. Y. Candy. No. 159,401; Aug. 29.
Booth, Wilfrid I., Elmira, N. Y. Candy. No. 159,405; Aug. 29.
Bottieri, Henry, doing business as International Fireworks Co., Schenectady, N. Y. Fireworks. No. 162,603; Aug. 29.
Brown, Wm. H., & Bro. Co., Baltimore, Md. Perfume, toilet water, sachet, talcum, and face powders. No. 163,374; Aug. 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Bunn, John W., & Co., Springfield, Ill. Chocolate candy, a cream-center peanut cluster dipped in chocolate. No. 160,389; Aug. 29.
Bunte Brothers, Chicago, Ill. Confectionery—namely, candy bars. Nos. 160,386–8; Aug. 29.
Burd High Compression Ring Company, Rockford, Ill. Piston rings. No. 151,779; Aug. 29.
Campbell Manufacturing Co., Oakland, Calif. Plum and other fruit puddings, chocolate, vanilla, and other flavored puddings. No. 147,553; Aug. 29.
Carley, Leonard R., Watertown, Conn. Leather, canvas, and rubber shoes and shoes formed of fabric material. No. 160,590; Aug. 29.
Cecil Manufacturing Co., New York, N. Y. Silver-plated flat and hollow tableware and silver-plated ware for soda-water use. No. 162,285; Aug. 29.
Cerrone, F. C., doing business as United States Base Ball Manufacturing Co., Johnstown, N. Y. Baseballs. No. 162,245; Aug. 29.
Chadick, De Lamater Corporation, New York, N. Y. Internal-combustion motors and parts thereof. No. 159,695; Aug. 29.
Chicago City Rubber Works, Chicago, Ill. Rubber automobile tires. Nos. 157,884–6; Aug. 29.
Cincinnati Clock & Instrument Co., The, Cincinnati, Ohio. Hall, mantel, and chime clocks. No. 160,047; Aug. 29.
Colonial Leather Company, Inc., The, Philadelphia, Pa. Belt preservatives. No. 163,615; Aug. 29.
Colucci & Son, Ashtabula, Ohio. Beverages sold as soft drinks and sirups for making same. No. 158,076; Aug. 29.
Conlon Electric Washer Co., Inc., Cicero, Ill. Washing machines. No. 166,983; Aug. 29.
Co-Operative League of The United States of America, Assoc., The, New York, N. Y. Pamphlets, monthly magazines, leaflets, etc. No. 165,742; Aug. 29.
Court, R. G., Co. Inc., The, Covington, Ky. Beverage sold as soft drink. No. 162,666; Aug. 29.
Crocker-Sprague Co., Dunkirk, N. Y. Coffee, cocoa, spices, and tea. No. 159,647; Aug. 29.
Davies Shoe Manufacturing Co., Racine, Wis. Men's and children's shoes. No. 147,866; Aug. 29.
Davies, William J., Los Angeles, Calif. Tonic and nervine. No. 163,438; Aug. 29.
Dayton Pneumatic Tool Company, The, Dayton, Ohio. Portable riveting hammer. No. 158,824; Aug. 29.
Dengel & McCormack, New York, N. Y. Polishing cloths for wood, metal, glass, paints, etc. No. 163,862; Aug. 29.
De Ortigao Burnay, Manoel, Paris, France. Fire-alarm apparatus. No. 157,019; Aug. 29.
Dickinson, May B., Boston, Mass. Printed books, pamphlets, and photographs. No. 148,931; Aug. 29.
Dickinson, May B., Boston, Mass. Dolls, dolls' clothing, and dolls' bedding. No. 165,988; Aug. 29.
Dockhorn, William H., Elwood, Kans. Mineral feed mixtures for live stock and poultry. No. 150,006; Aug. 29.
Domino House. (See Sullivan, Marguerite.)
Donaldson, A. J., doing business as Great Western Tea Co., San Francisco, Calif. Tea, coffee, flavoring extracts for food, spices, etc. No. 140,169; Aug. 29.
Dottenheim, Mark, doing business as Victor Company, New York, N. Y. Single pearls and strings of pearls. No. 123,881; Aug. 29.
Downing, T. H., & Co. Limited, Leicester, England. Cardigan jackets, undercoats, shirts, jerseys, etc. No. 148,134; Aug. 29.
Dunhill, Alfred, London, Inc., New York, N. Y. Cigars, little cigars, cigarettes, and smoking tobacco. No. 161,770; Aug. 29.
Eclipse Timer Mfg. Co. (See Kaufman, Adam.)
Eisner, Jacob, New York, N. Y. Men's, youths', and boys' clothing for outer wear. No. 152,203; Aug. 29.
Electric Alloy Steel Company, The, Youngstown, Ohio. Steel. Nos. 147,232–5; Aug. 29.
Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Electric vacuum cleaners and parts thereof. No. 162,540; Aug. 29.
Enterprise Manufacturing Company, The, Akron, Ohio. Drag handles for fishing reels. No. 166,666; Aug. 29.
Estate of A. C. Decker, doing business as Decker Manufacturing Company, Keokuk, Iowa. Lever-handle instruments for slitting the noses of hogs and marking the ears of animals. Nos. 157,304–5; Aug. 29.
Fairy Gift Company, Cincinnati, Ohio. Play boxes, pastime set for girls, rainbow set, bubble set, etc. No. 149,178; Aug. 29.
Famo Cigar, Milwaukee, Wis. Cigars, cheroots, and cigarettes. No. 167,121; Aug. 29.
Federal Coal Company, Chattanooga, Tenn. Coal. No. 157,762; Aug. 29.
Federal Grocery Co., also doing business as The Rock Bottom Stores, Los Angeles, Calif. Canned vegetables, fruit, and fish, coffee, bread, etc. No. 154,869; Aug. 29.
Ferguson, B. M., & Co. (See Ferguson, Benjamin M.)
Ferguson, Benjamin M., doing business as B. M. Ferguson & Co., Chicago, Ill. Soap. No. 164,159; Aug. 29.
Fiat, Turin, Italy. Aluminum, tool steel, iron bars, and rails, etc. No. 148,271; Aug. 29.
Fig-Bit Company, Fresno, Calif. Figs in their natural state. No. 160,545; Aug. 29.
Foley, Edmund Y., Fresno, Calif. Fresh grapes. Nos. 160,397–8; Aug. 29.
Frankford Davies and Company, Pittsburgh, Pa. Washing compound. No. 165,585; Aug. 29.
G. & C. Merriam Company, Springfield, Mass. Books, more particularly dictionaries. No. 162,836; Aug. 29.
Genschow, Gustav, & Co., Aktiengesellschaft, Berlin, Germany. Ammunition. No. 161,876; Aug. 29.
George, Nicolas A. F., administrator. (See Société Anonyme des Produits du Lion Noir.)
Gesellschaft fur Wolfram-Industrie m. b. H., Fraunstein, Germany. Unwrought or partly-wrought ferrous and nonferrous metallic alloys of great hardness. No. 154,362; Aug. 29.
Gilchrist, John W., New York, N. Y. Silk piece goods. No. 163,927; Aug. 29.
Gill Brothers Company, Steubenville, Ohio. Glass lamp chimneys, globes, shades, and reflectors. No. 161,183; Aug. 29.
Glemby's, S., Sons Co., Inc., New York, N. Y. Hair nets. No. 164,418; Aug. 29.
Goldman, Sigmund L., doing business as Red Sun Products Co., Chicago, Ill. Root-beer extracts for making maltless beverages. No. 153,211; Aug. 29.
Goodlatte, T. R., & Sons, Inc., Delawanna, N. J., and New York, N. Y. Oilcloth—viz, wall cloth. No. 165,540; Aug. 29.
Great Western Tea Co. (See Donaldson, A. J.)
Grosset & Dunlap, Inc., New York, N. Y. Series of books published periodically. No. 161,675; Aug. 29.
Groveland Citrus Growers Association, Groveland, Fla. Fresh citrus fruits. No. 158,310; Aug. 29.
Guarantee Liquid Measure Company, Rochester, Pa. Liquid measuring and dispensing pumps. No. 164,756; Aug. 29.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, woolen, and cotton piece goods and combinations thereof. No. 165,865; Aug. 29.
Hall, Edward E., doing business as Whetrite Company, Columbus, Ohio. Dressing in powdered form for use on razor strops. No. 165,018; Aug. 29.
Hall, Mary E., Chicago, Ill. Monthly periodicals. No. 165,496; Aug. 29.
Hanson Manufacturing Co., Topeka, Kans. Sandwich fillings. No. 160,941; Aug. 29.
Heidell & Trow Company, New York, N. Y. Jewelry, not including watches. No. 164,641; Aug. 29.
Hickok Manufacturing Company, Inc., Rochester, N. Y. Watch chains. No. 163,931; Aug. 29.
High Tension Supplies Company, Wilmington, Del. Resistors, lightning arresters, and fuses for electrical purposes. No. 148,841; Aug. 29.
Hirschfeld, Leo, White Plains, N. Y. Candy. No. 148,879; Aug. 29.
Hitch, Frederick C., Brooklyn, N. Y. Candy confection flavored with mint. No. 148,227; Aug. 29.
H-O Cereal Company, The, Buffalo, N. Y. Animal, bird, and poultry feeds. No. 147,754; Aug. 29.
Hostetter, Theodore, Toledo, Ohio. Composition materials for floors, walls, and decorative purposes. No. 161,727; Aug. 29.
Huerfano Agency Company, The, Walsenburg, Colo. Coals. No. 151,540; Aug. 29.
Hydraulic Steel Company, The, Cleveland, Ohio. Barrels. No. 141,171; Aug. 29.
International Fireworks Co. (See Bottieri, Henry.)
Jenkins & Wagner, Cincinnati, Ohio. Soap. No. 153,847; Aug. 29.
Johnson, R. H., & Co., Chicago, Ill. Mayonnaise and tartar-sauce dressing. No. 160,947; Aug. 29.
Jones, Paul, New York, N. Y. Novelty in the nature of a mascot. No. 165,751; Aug. 29.
Jones, Woodbury & Smith Skowhegan, Me. Pants, dress, negligee, work, and under shirts, socks, and mackinaws. No. 158,778; Aug. 29.
Jordan Marsh Company, Boston, Mass. Misses' and women's coats, skirts, dresses, suits, hats, and scarfs, boys' suits, etc. No. 160,667; Aug. 29.
Justh Manufacturing Company, The, Cleveland, Ohio. Bed davenports, house and office chairs, rockers, and couches. No. 143,647; Aug. 29.
Kade, Max, doing business as Seeck & Kade, New York, N. Y. Cough medicine. No. 163,221; Aug. 29.
Kaufman, Adam, doing business at Eclipse Timer Mfg. Co., Milwaukee, Wis. Spark timer for internal-combustion engines. No. 161,363; Aug. 29.
Kendall Products Corporation, New York, N. Y. Detergent preparation—namely, soap products. No. 160,498; Aug. 29.
Kerans, Hugh, St. Louis, Mo. Rubber patches for inner tubes for pneumatic tires. No. 155,563; Aug. 29.
Kirshner, Nathaniel M., Los Angeles, Calif. Beads used as jewelry. No. 160,065; Aug. 29.
Klemm, A. M., & Son, Winter Haven, Fla. Fresh citrus fruit. No. 160,613; Aug. 29.
Lackner Company, The, Cincinnati, Ohio. Interior illuminating electric signs, using raised white opal glass letters. No. 164,812; Aug. 29.
Lanchester Motor Co. Ltd., The, Birmingham, England. Automobiles, motor trucks, and motor cycles. No. 159,366; Aug. 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

L. C. L. Co., The, New York, N. Y. Railroad cars and freight containers. No. 148,337; Aug. 29.
Lemaitre, Jean R., Paris, France. Antiseptic compounds. No. 157,319; Aug. 29.
Levin, Nathan, Pittsburgh, Pa. Waterproof cloth. No. 145,696; Aug. 29.
Long Island Polish Co., New York, N. Y. Metal cleansers and polishes. No. 163,638; Aug. 29.
Lysander Kemp & Sons Inc., Boston, Mass. Soap flakes. No. 164,171; Aug. 29.
Mallander and Company. (See Mallander, Fred A.)
Mallander, Fred A., doing business as Mallander and Company. Store display counters, cases, and cabinets. No. 162,495; Aug. 29.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 145,224; Aug. 29.
Management Magazines Incorporated, Chicago, Ill. Periodicals published monthly. No. 161,854; Aug. 29.
Marshall Field & Company, Chicago, Ill. Alarm clocks. No. 161,535; Aug. 29.
Marshall Field & Company, Chicago, Ill. Bedspreads and pillow shams. No. 165,943; Aug. 29.
Martinez, Antonio, Jacksonville, Fla. Cigars. No. 147,304; Aug. 29.
Maxwell, T. J., & Co., Peekskill, N. Y. Pyjamas and night robes. Nos. 149,011–12; Aug. 29.
McChesney Company, The, Newark, N. J. Articles made of gold, silver, platinum, or a combination of these metals. No. 164,179; Aug. 29.
McDougall-Butler Co., Inc., Buffalo, N. Y. Varnish. No. 152,852; Aug. 29.
McLaughlin, Thomas H., Los Angeles, Calif. Fresh vegetables. No. 160,957; Aug. 29.
Mead Johnson & Company, Evansville, Ind. Carbohydrate food for infants and invalids. No. 160,412; Aug. 29.
Mechanical Appliance Company, The, Milwaukee, Wis. Electric motors, dynamos and generators, rotary convertors, etc. No. 134,836; Aug. 29.
Merritt Rubber Co. Inc., New York, N. Y. Rubber vehicle tires and rubber inner tubes. No. 149,594; Aug. 29.
Mills Brothers Company, The, doing business as The American Products Company, Cincinnati, Ohio. Shaving cream in the nature of a paste soap, toilet soap, and cleanser. No. 161,933; Aug. 29.
Moerlein, Christian Brewing Co., The, Cincinnati, Ohio. Beer. No. 103,214; Aug. 29.
Moerlein, Christian Brewing Co., The, Cincinnati, Ohio. Beer. No. 103,216; Aug. 29.
Moerlein Christian Brewing Co., The, Cincinnati, Ohio. Beer. Nos. 103,222–3; Aug. 29.
Munser, E., & Co. (See Munser, Erwin G.)
Munser, Erwin G., doing business as E. Munser & Co., Chicago, Ill. Women's and misses' textile-fabric underwear. No. 159,716; Aug. 29.
National Kellastone Co., Chicago, Ill. Building cement and stucco. No. 155,028; Aug. 29.
National Organization for Public Health Nursing, New York, N. Y., and Cleveland, Ohio. Cover of its educational and scientific monthly magazine. No. 163,891; Aug. 29.
Ocean Shore Canning Co., The, Halfmoon Bay, Calif. Canned fruits and vegetables. No. 160,626; Aug. 29.
Ogburn-Griffin Grocery Co., Mobile, Ala. Cigars. No. 167,484; Aug. 29.
Osborn-Crew Manufacturing Company, The, Cleveland, Ohio. Toy drawing instrument. No. 167,189; Aug. 29.
Packard Engineering Co., The, Cleveland, Ohio. Automobile steering-wheel lock. No. 161,644; Aug. 29.
Palmolive Company, Milwaukee, Wis. Soap. No. 162,506; Aug. 29.
Paraffine Companies, Inc., The, San Francisco, Calif. Waterproof and weatherproof roofings. No. 160,630; Aug. 29.
Patch, E. L., Company, The, Stoneham, Mass. Skin lotion. No. 163,535; Aug. 29.
Penn Drug Spec. Co., Pittsburgh, Pa. Powder puffs. No. 164,006; Aug. 29.
Perkins, Thomas C., Atlanta, Ga. Household brushes. No. 165,816; Aug. 29.
Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. Noodles, macaroni, and spaghetti. No. 160,632; Aug. 29.
Pietzuch Surgical Wonder Arch Guide Heel Company, The. Heels made of rubber. No. 143,996; Aug. 29.
Planters and Merchants Mills, New Braunfels and San Antonio, Tex. Gingham cloth in the piece. No. 159,429; Aug. 29.
Podesta Import Company, San Francisco, Calif. Mushrooms in oil, fruits and vegetables, jams, cheese, etc. No. 152,584; Aug. 29.
Precious Metals Tempering Co., New York, N. Y. Tempered gold alloy. No. 133,103; Aug. 29.
Psycho-Occult Institute of Business Success, Chicago, Ill. Publication in the form of booklets and leaflets. No. 158,091; Aug. 29.
Pung Chow Company, New York, N. Y. Game set consisting of tiles or blocks utilized in playing the game somewhat after the manner of dominoes. No. 165,559; Aug. 29.
Pung Chow Company, New York, N. Y. Game set consisting of tiles or blocks utilized in playing the game somewhat after the manner of dominoes. No. 165,561; Aug. 29.
Quaker City Chocolate & Confectionery Company, Philadelphia, Pa. Candies. No. 160,973; Aug. 29.
Radiall Company, New York, N. Y. Automatic filament current adjuster. No. 163,112; Aug. 29.
Raiguel, E. M., Incorporated, Philadelphia, Pa. Writing fluid. No. 164,076; Aug. 29.
Ra-Tone Electric Co., Detroit, Mich. Radio receiving sets, variometers, variocouplers, etc. No. 164,454; Aug. 29.
Red Sun Products Co. (See Goldman, Sigmund L.)
Reese, J. L., Inc., Albany, N. Y. Preserved fruits. No. 160,830; Aug. 29.
Rices, Bernard, Sons, Inc., New York, N. Y. Silver hollow ware. No. 161,750; Aug. 29.
Rochester Stamping Company, Rochester, N. Y. Articles made wholly or in part of precious metal or plated therewith. No. 159,617; Aug. 29.
Rock Bottom Stores, The. (See Federal Grocery Co.)
Rogers, M. H., Inc., New York, N. Y. Drapery and upholstery fabrics in the piece, couch covers, and rugs. No. 131,669; Aug. 29.
Rosenbaum Brothers, Salt Lake City, Utah. Men's and boys' work shirts, overcoats, and mackinaw coats, men's pants, etc. No. 160,901; Aug. 29.
Russell Manufacturing Co., The, Middletown, Conn. Brake lining and clutch facing. No. 122,500; Aug. 29.
Ryan, Allan C., doing business as The America Crucible Products Company, Elyria, Ohio. Aluminum alloys. No. 135,732; Aug. 29.
Samoset Chocolates Company, Boston, Mass. Candy. No. 130,440; Aug. 29.
Saxe, Alexander, New York, N. Y. Tooth, face, nail, and bath brushes. No. 161,386; Aug. 29.
Schermerhorn, Louis C., Hawthorne, N. J. Strings for violins, guitars, etc. No. 150,208; Aug. 29.
Schonberg Manufacturing Company, Chicago, Ill. Side windshields for automobiles. No. 141,243; Aug. 29.
Seamless Rubber Company, Inc., The, New Haven, Conn. Rubber combs. No. 161,795; Aug. 29.
Seeck & Kade. (See Kade, Max.)
Sherwin-Williams Company, The, Cleveland, Ohio. Paint for coating roofs, elastic paint. No. 147,132; Aug. 29.
Shiman Bros. & Co., New York, N. Y. Jewelry for personal wear, not including watches. No. 162,776; Aug. 29.
Silk Association of America, The, New York, N. Y. Annual and mid-year reports, official organ, trade rules, and technical and research reports. No. 163,474; Aug. 29.
Silkwood-Pharis Wholesale Grocery Company, West Frankfort, Ill. Canned vegetables and pork and beans. No. 160,516; Aug. 29.
Simplex Alarm Company Milwaukee, Wis. Electrical alarm systems as a whole. No. 146,745; Aug. 29.
Smith, D. B., & Company. (See Smith, De Wane B.)
Smith, De Wane B., doing business as D. B. Smith & Company, Utica, N. Y. Sprayers, pumps, force pump, atomizers for liquid and powder insecticides, etc. No. 145,974; Aug. 29.
Smith, Frank S., Los Angeles, Calif. Golf games and putting devices. No. 167,586; Aug. 29.
Smith & Hemenway Company, Inc., New York, N. Y., and Irvington, N. J. Pliers, glass cutters, auger bits, star drills, etc. No. 157,047; Aug. 29.
Sniff-Bang Company. (See Blakeney, John G.)
Société Anonyme des Produits du Lion Noir, by Nicholas A. F. George, administrator, Montrouge, near Paris, France. Furniture and floor polishes and waxes, etc. No. 146,088; Aug. 29.
Springdale Vinegar Company, Springdale, Ark. Pure sugar vinegar. No. 160,640; Aug. 29.
Standard Oil Company of New York, New York, N. Y. Lamp chimneys and reservoirs. No. 163,416; Aug. 29.
Standard Oil Company of New York, New York, N. Y. Asphaltum. No. 163,768; Aug. 29.
Standard Steel Works Company, Philadelphiag Pa. Springs for locomotives, locomotive tenders, and cars. No. 146,982; Aug. 29.
Standard Steel Works Company, Philadelphia, Pa. Steel tires, steel-tired wheels, and solid rolled-steel wheels. No. 146,983. Aug. 29.
Stearns, Frederick J., Manchester, N. H. Oil preparation for cleansing and polishing metal. No. 137,188; Aug. 29.
Steiner, Clarence S., Asbury Park, N. J. Mattresses, pillows, bedsteads, sleeping couches, and day beds. No. 165,463; Aug. 29.
Stone, Andrew J., Greybull, Wyo. Washing compound. No. 165,510; Aug. 29.
Strong-Kennard & Nutt Company, The, Cleveland, Ohio. Spectacles. No. 163,184; Aug. 29.
Sullivan, Marguerite, doing business as Domino House, Philadelphia, Pa. Soaps. No. 165,769; Aug. 29.
Sullivan, Marguerite, doing business as Domino House, Philadelphia, Pa. Soaps. Nos. 165,771–2; Aug. 29.
Surut, Elias, & Son. (See Surut, Louis.)

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Surut, Louis, doing business as Elias Surut & Son, also known as The Woolen Clearing House, New York, N. Y. Woolen and wool-mixture fabrics. No. 163,597; Aug. 29.
Swan, Darious, Freedom, Ind. Spark plugs. No. 163,358; Aug. 29.
Taylor Instrument Companies, Rochester, N. Y. Compasses. Nos. 163,195–202; Aug. 29.
Taylor Instrument Companies, Rochester, N. Y. Thermocouple stems. No. 163,833; Aug. 29.
Taylor Instrument Companies, Rochester, N. Y. Thermometers. No. 163,835; Aug. 29.
Taylor Instrument Companies, Rochester, N. Y. Hydrometers. No. 163,840; Aug. 29.
Taylor Instrument Companies, Rochester, N. Y. Hydrometers. No. 163,843; Aug. 29.
Teleradio Engineering Corporation, New York, N. Y. Wireless and electrical equipment. No. 161,016; Aug. 29.
Tysmol Co., San Francisco, Calif. Preparation for neuritis, sciatica, neuralgia, rheumatism, etc. No. 162,074; Aug. 29.
United Candy Company, Boston, Mass. Candy. No. 160,521; Aug. 29.
United States Base Ball Manufacturing Co. (See Cerrone, F. C.)
United States Ozone Company, Scottdale, Pa. Water-purifying machinery and parts thereof. No. 145,727; Aug. 29.
Van Camp Packing Company, Inc., The, Indianapolis, Ind. Soap. No. 161,601; Aug. 29.
Victor Company. (See Dottenheim, Mark.)
Victory Products, Inc., Boston, Mass. Composition roofings. No. 152,291; Aug. 29.
Vitrifyx Company, Chicago, Ill. Hardening and waterproofing ingredients for cement. Nos. 149,042–3; Aug. 29.
Vivaudou, V., Inc., New York, N. Y. Compressed circular disklike forms of rouge and face powder. No. 147,853; Aug. 29.
Vogel, Frederick B., Philadelphia, Pa. Monthly publication. No. 164,851; Aug. 29.
Volland, P. F., Co., Chicago, Ill. Fabric toy dogs adapted to be stuffed. No. 167,341; Aug. 29.
Wason Bros., Seattle, Wash. Coffee. No. 160,454; Aug. 29.
Watkins, Erwin W., Copper Hill, Tenn. Face lotion. No. 155,423; Aug. 29.
Wenatchee District Co-Operative Association, Wenatchee, Wash. Fresh apples. No. 160,733; Aug. 29.
Wenner, Charles B., New York, N. Y. Liquid preparation for cleaning furniture, automobiles, etc. No. 166,158; Aug. 29.
Whetrite Company. (See Hall, Edward E.)
Whiting & Davis Company, Plainville, Mass. Mesh bags comprised wholly or in part of precious metal. No. 161,019; Aug. 29.
Williamson, R., & Company, Chicago, Ill. Electric-lighting fixtures and furniture. No. 155,944; Aug. 29.
Witcombe, McGeachin & Co., New York, N. Y. Cotton, cotton and silk, and cotton and artificial-silk fabrics in the piece and made-up draperies, curtains, etc., of said fabrics. No. 160,646; Aug. 29.
Wood, Carrie V., Oakland, Calif. Powder for cleaning white shoes. No. 163,023; Aug. 29.
Woolen Clearing House, The. (See Surut, Louis.)
Worcester Lumber Company, Ltd., Chassel, Mich. Sawed and planed lumber, shingles, and wood flooring. No. 162,862; Aug. 29.
X-L Belt Buckle Co., Cincinnati, Ohio. Belt buckles made of or plated with precious metal. No. 160,225; Aug. 29.
Yardley & Co., Limited, Stratford, London, England. Toilet soap. No. 162,962; Aug. 29.
Zabludoff, Joseph, Philadelphia, Pa. Hair nets. No. 159,396; Aug. 29.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF AUGUST, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid, Fixing synthetical nitric. M. Huebner. No. 1,427,441; Aug. 29.
Acid, Treatment of waste sulphuric. S. Hilpert. No. 1,427,386; Aug. 29.
Acridine series and making same, Compound of. L. Benda. No. 1,427,431; Aug. 29.
Acridinium compounds and making same. L. Benda. No. 1,427,432; Aug. 29.
Advertising device, Illuminated. F. D. Cummings. No. 1,427,678; Aug. 29.
Aerial vehicles, Automatically-releasing anchoring device for. M. C. St. John. No. 1,427,500; Aug. 29.
Air brake. D. Berger. No. 1,427,715; Aug. 29.
Air-lift system. J. Oliphant. No. 1,427,317; Aug. 29.
Air-supply station. A. A. Ewald. No. 1,427,450; Aug. 29.
Aircraft. G. F. Myers. No. 1,427,314; Aug. 29.
Airplane. M. F. Babcock. No. 1,427,086; Aug. 29.
Airplane. J. A. Weis and F. J. Knorr. No. 1,427,665; Aug. 29.
Alarm: *See*—
Bearing alarm.
Alarm for strong boxes. J. Yano. No. 1,427,507; Aug. 29.
Alarm transmitter, Electric. J. D. Nelson. No. 1,427,543; Aug. 29.
Alcohol and acetone by fermentation, Producing butyl. G. D. Horton. No. 1,427,595; Aug. 29.
Alcohol, Urethane of the trichloroethylic. R. Willstatter, W. Dnisberg, and T. Callsen. No. 1,427,506; Aug. 29.
Annealing metal. E. G. Budd and J. Ledwinka. No. 1,427,753; Aug. 29.
Annealing or otherwise treating metal, Appliances for. A. Howgate. No. 1,427,390; Aug. 29.
Annealing thin steel sheets, Apparatus for. S. Peacock. No. 1,427,319; Aug. 29.
Arbor, Collapsible. H. L. Haven. No. 1,427,155; Aug. 29.
Arc-describing instrument. F. H. Murray. No. 1,427,493; Aug. 29.
Atomizing more or less viscid materials, Method and means for. A. Sonsthagen and E. H. Harberd. No. 1,427,559; Aug. 29.
Auger, Expanding. F. B. Spry. No. 1,427,705; Aug. 29.
Automobile attachment. J. W. Leech. No. 1,427,749; Aug. 29.
Automobile body brace. F. M. Stoll. No. 1,427,763; Aug. 29.
Automobile bumper. R. B. Fageol. No. 1,427,275; Aug. 29.
Automobile curtain light, Metal-faced. G. and F. H. Whomes. No. 1,427,250; Aug. 29.
Automobile direction signal. S. D. Gossard. No. 1,427,102; Aug. 29.
Automobile door hinge. H. J. Mastenbrook. No. 1,427,308; Aug. 29.
Automobile heater. S. Ishimatsu. No. 1,427,475; Aug. 29.
Automobile lock. W. C. Thield. No. 1,427,654; Aug. 29.
Automobile lock. W. S. Portlock, sr. No. 1,427,323; Aug. 29.
Automobile seat. F. Gahm. No. 1,427,280; Aug. 29.
Automobile sun shield. W. F. Sprengnether. No. 1,427,332; Aug. 29.
Automobile transmission. S. S. Morton. No. 1,427,541; Aug. '29.
Automobile wheel. E. A. Berg. No. 1,427,433; Aug. 29.
Automobiles, Low-gear lock and theft-preventing devices for. H. L. and H. E. Ward. No. 1,427,662; Aug. 29.
Automobiles, Differential gearing for. I. M. Marcy. No. 1,427,612; Aug. 29.
Automobiles, Disconnectible fan for. J. E. Johnson. No. 1,427,687; Aug. 29.
Automobiles, Trailer hitch for. I. B. Cessna. No. 1,427,579; Aug. 29.
Automobiles, trucks, and the like, Brake adjuster for. W. F. March. No. 1,427,113; Aug. 29.
Auto-truck cab. D. W. and E. C. Voltz and G. E. Hammel. No. 1,427,660; Aug. 29.
Axle. V. V. Torbensen. No. 1,427,502; Aug. 29.
Axle for motor vehicles. R. J. Burrows. No. 1,427,089; Aug. 29.
Axle mounting for vehicles. F. H. Cozzens. No. 1,427,362; Aug. 29.
Bag: *See*—
Clothespin bag.
Bag handle and handle fastener therefor. W. A. Lotz. No. 1,427,608; Aug. 29.
Bag holder. P. W. Pulig. No. 1,427,123; Aug. 29.
Bag lock. W. L. Caligan. No. 1,427,353; Aug. 29.
Bait, Artificial. W. Barsch. No. 1,427,147; Aug. 29.
Balloon fabric and the like. W. A. Williams. No. 1,427,708; Aug. 29.
Bar spacer. C. J. O'Brien. No. 1,427,316; Aug. 29.
Barge, Fueling. A. F. Case. No. 1,427,091; Aug. 29.
Bath and dressing table, Collapsible. W. J. Jackson. No. 1,427,598; Aug. 29.
Bathtubs, Waste and overflow attachment for. L. B. Yelser. No. 1,427,567; Aug. 29.
Bearing alarm. H. L. Henderson. No. 1,427,593; Aug. 29.
Bearing, Roller. L. W. Close. No. 1,427,520; Aug. 29.
Bearing, Roller side. A. Stuckl. No. 1,427,174; Aug. 29.
Bearings, Retaining cage for multiple-row ball. F. E. Mueller. No. 1,427,225; Aug. 29.
Bed. R. Morris. No. 1,427,618; Aug. 29.
Bell, Electric. E. Ruboni. No. 1,427,548; Aug. 29.
Belt, Power-transmitting. J. A. Hawkesworth. No. 1,427,460; Aug. 29.
Belt shifter. C. E. Shryver. No. 1,427,702; Aug. 29.
Bicycle. F. A. Malec. No. 1,427,402; Aug. 29.
Bicycle propelling means. N. J. Greenison. No. 1,427,589; Aug. 29.
Block: *See*—
Wheel block.
Blower, Turbine-driven. F. H. C. Coppus. No. 1,427,150; Aug. 29.
Boats, Means for detecting submarine. E. A. Sperry. No. 1,427,560; Aug. 29.
Bolt. T. C. Restak. No. 1,427,635; Aug. 29.
Bolt fastener. W. H. Appleby. No. 1,427,253; Aug. 29.
Bookmarker. G. W. Stone. No. 1,427,334; Aug. 29.
Boots and shoes, Innersole for. J. Pietzuch. No. 1,427,547; Aug. 29.
Bottle cap. F. A. Burton. No. 1,427,259; Aug. 29.
Bottle closure. C. Zehnbauer. No. 1,427,672; Aug. 29.
Bottles, jars, and other receptacles, Closure for. J. H. Montgomery. No. 1,427,694; Aug. 29.
Box: *See*—
Sound box.
Brace: *See*—
Automobile body brace.
Braiding machine, Lace-. E. L. Smith. No. 1,427,172; Aug. 29.
Brake: *See*—
Air brake.
Brake. P. A. Anderson. No. 1,427,084; Aug. 29.
Brake-beam support. C. F. Huntoon. No. 1,427,474; Aug. 29.
Brake mechanism. W. F. Rafferty. No. 1,427,326; Aug. 29.
Bread, Apparatus for handling. G. B. Eggert. No. 1,427,679; Aug. 29.
Brooders, incubators, and the like, Heating system for. H. M. Sheer. No. 1,427,703; Aug. 29.
Buckle, Belt. T. B. Hafertep. No. 1,427,591; Aug. 29.
Buckle, Belt. E. S. Mix. No. 1,427,162; Aug. 29.
Building construction. F. Lichtenberg and M. M. McCarthy. (Reissue.) No. 15,440; Aug. 29.
Bumper-supporting bracket. W. R. McGowen. No. 1,427,488; Aug. 29.
Bung-flange blank. G. A. Moore. No. 1,427,616; Aug. 29.
Burial crypt. R. E. Glass. No. 1,427,458; Aug. 29.
Burner: *See*—
Liquid-fuel burner.
Burner construction. W. E. Hoke. No. 1,427,738; Aug. 29.
Button, Releasable self-fastening. M. Menkin. No. 1,427,614; Aug. 29.
Buttons, from calcined gypsum, cement, or the like, Producing small form pieces, especially. A. Haenicke. No. 1,427,103; Aug. 29.
Cable splice. J. A. Newberry. No. 1,427,494; Aug. 29.
Cable, Suspension-bridge. J. F. Howe. No. 1,427,471; Aug. 29.
Camera. W. A. Peters. No. 1,427,546; Aug. 29.
Can: *See*—
Disposal can.
Can holding and sealing device. J. Bauder. No. 1,427,347; Aug. 29.
Cans and discharging their contents, Device for opening. J. S. Orr. No. 1,427,545; Aug. 29.
Candy making. F. C. Gephart. No. 1,427,527; Aug. 29.
Car-dumper cradles, Car blocking for. A. F. Case. No. 1,427,090; Aug. 29.
Car, Self-discharging. R. Lorenz. No. 1,427,539; Aug. 29.
Cars, Automatic coupling device for railway. C. A. M. Ribéra and F. A. Serre. No. 1,427,759; Aug. 29.
Cars, Frictional draft gear for railway. A. C. Mather. No. 1,427,309; Aug. 29.

Cars, Tandem draft gear for railway. M. J. Mendez. No. 1,427,491; Aug. 29.
Cars, Wind screen for motor. W. Pitkin. No. 1,427,630; Aug. 29.
Carbonaceous materials, Heating of vertical retorts for the distillation of. W. Wild. No. 1,427,426; Aug. 29.
Carburetor float. J. O. Luthy. No. 1,427,306; Aug. 29.
Carrier: *See*—
Ice-cream carrier.
Cart, Floor. G. R. Davis. No. 1,427,583; Aug. 29.
Case: *See*—
Packing case.
Cash-registers tab-actuating mechanism. F. E. Miller. No. 1,427,311; Aug. 29.
Casket handle. P. J. Kallmeyer. No. 1,427,603; Aug. 29.
Casting italic type, Means for. G. L. Curle. No. 1,427,363; Aug. 29.
Catalyzing apparatus. J. M. Selden. No. 1,427,554; Aug. 29.
Catenary-suspension system. O. M. Jorstad. No. 1,427,393; Aug. 29.
Cellulose ethers, Manufacture of molded articles from. G. Leysieffer. No. 1,427,690; Aug. 29.
Certificate. E. M. Mason. No. 1,427,161; Aug. 29.
Chain, Endless-tread. S. S. Morton. No. 1,427,542; Aug. 29.
Chain fastener. P. J. Baker. No. 1,427,572; Aug. 29.
Chain, Hoisting. W. P. Rickard. No. 1,427,642; Aug. 29.
Chain motor, Endless-. S. Orioka. No. 1,427,544; Aug. 29.
Chairs, Attachment for reclining. J. J. Hogan. No. 1,427,292; Aug. 29.
Chalk holder. L. L. S. Bashore. No. 1,427,712; Aug. 29.
Cinematograph color projector. H. Stewart and R. Killick. No. 1,427,131; Aug. 29.
Circuit interrupter. G. L. Christman and J. MacNeill. No. 1,427,358; Aug. 29.
Circuit interrupter. C. L. Fortescue. No. 1,427,369; Aug. 29.
Circuit interrupter. C. L. Fortescue and F. C. Hanker. No. 1,427,367; Aug. 29.
Circuit interrupter. C. L. Fortescue and J. B. MacNeill. No. 1,427,368; Aug. 29.
Circuit interrupter. J. F. Tritle. (Reissue.) No. 15,441; Aug. 29.
Clamp: *See*—
Rail clamp. Washboard clamp.
Clip. C. J. Hendricks. No. 1,427,736; Aug. 29.
Closure. E. L. Greenewald. No. 1,427,683; Aug. 29.
Closure fastener. H. Ventre. No. 1,427,658; Aug. 29.
Clothes-drying machine. C. W. Collins. No. 1,427,580; Aug. 29.
Clothes hanger, Supplemental. M. H. Catlin. No. 1,427,260; Aug. 29.
Clothespin bag. M. A. Mabon. No. 1,427,219; Aug. 29.
Clutch and brake control mechanism. J. E. Winters. No. 1,427,184; Aug. 29.
Clutch, Friction. G. C. Nelson. No. 1,427,623; Aug. 29.
Clutch-pedal lock. A. K. Goehner. No. 1,427,285; Aug. 29.
Clutch, Reversible. R. Pinder. No. 1,427,168; Aug. 29.
Coal hod. J. A. Martin. No. 1,427,613; Aug. 29.
Coal jig. J. J. Steinbach. No. 1,427,651; Aug. 29.
Coil relay, Moving. K. C. Cox. No. 1,427,093; Aug. 29.
Collapsible tube. C. H. Payne. No. 1,427,411; Aug. 29.
Collar. R. Baer. No. 1,427,752; Aug. 29.
Collar. J. Layden. No. 1,427,745; Aug. 29.
Collar fastener. J. Gussett. No. 1,427,531; Aug. 29.
Collar support, Soft-. V. H. Fairless. No. 1,427,727; Aug. 29.
Colters, Means for mounting. W. H. Silver. No. 1,427,649; Aug. 29.
Comb and producing same, Artificial. W. G. Cook. No. 1,427,149; Aug. 29.
Combination lock. W. J. H. Ruschmeyer. No. 1,427,551; Aug. 29.
Combination table. J. L. Happy. No. 1,427,208; Aug. 29.
Combustion motor. A. Kaschtofsky. No. 1,427,395; Aug. 29.
Condenser. F. E. Payne. No. 1,427,318; Aug. 29.
Condenser, Air-cooled or evaporative surface. J. MacLeod. No. 1,427,159; Aug. 29.
Condenser and cooler. H. E. MacCarny. No. 1,427,611; Aug. 29.
Container, Metal. A. B. A. Fich. No. 1,427,152; Aug. 29.
Containers, Forming sealing members for. T. L. Tallaferro. No. 1,427,134; Aug. 29.
Containers, Hermetic seal for. T. L. Tallaferro. No. 1,427,133; Aug. 29.
Control system. B. O. Austin. No. 1,427,342; Aug. 29.
Control system. W. G. Brooks and L. G. Riley. No. 1,427,352; Aug. 29.
Control system. A. H. Candee. Nos. 1,427,355–6; Aug. 29.
Conveyer. B. W. Quick. No. 1,427,325; Aug. 29.
Conveyer. A. G. Schwinger. No. 1,427,553; Aug. 29.
Conveyer cleat. F. M. Robbins and J. S. Hartley. No. 1,427,229; Aug. 29.
Conveyers, Dumping mechanism for. P. B. Streich. No. 1,427,653; Aug. 29.
Cooling device, Milk-. D. A. Cook. No. 1,427,443; Aug. 29.
Core-making machine. F. Zoll. No. 1,427,427; Aug. 29.
Core-taking device. R. D. Dodds. No. 1,427,268; Aug. 29.
Cork substitute and manufacture. E. E. Graham. No. 1,427,682; Aug. 29.
Corncobs, Composition of matter produced from. P. Gruber and H. C. Bashioum. No. 1,427,378; Aug. 29.
Corset with abdominal support. E. Boobar. No. 1,427,087; Aug. 29.
Cot. L. Johnson. No. 1,427,476; Aug. 29.
Cotter-pin attachment. A. W. Permento. No. 1,427,696; Aug. 29.
Cotton and pea picker sack. V. H. Fairless. No. 1,427,728; Aug. 29.
Coupling: *See*—
Hose coupling. Tractor coupling.
Radiotelegraph coupling. Train-pipe coupling.
Crate. J. Cobb. No. 1,427,193; Aug. 29.
Creel, Warper's. G. Jourdain. No. 1,427,394; Aug. 29.
Crosstie. E. H. Phillips. No. 1,427,628; Aug. 29.
Cultivator. D. W. Strickland. No. 1,427,424; Aug. 29.
Curing compounds, Working quick-. W. A. Gibbons. No. 1,427,283; Aug. 29.
Current-collecting device. C. B. Mills. No. 1,427,407; Aug. 29.
Current-limiting device. B. E. Getchell. No. 1,427,203; Aug. 29.
Current motor, Fluid-. P. Reinberger. No. 1,427,124; Aug. 29.
Cutter: *See*—
Hay cutter. Meat cutter.
Decantation apparatus. J. Denoël. No. 1,427,446; Aug. 29.
Decorticating machine. H. F. Freuler and C. L. Morrill. No. 1,427,201; Aug. 29.
Decorticator, Centrifugal. S. H. Gillespie. No. 1,427,457; Aug. 29.
Dental handpiece. R. E. Graves. No. 1,427,286; Aug. 29.
Dental pressure gauge. I. Ono. No. 1,427,496; Aug. 29.
Dialkylsulphates, Manufacture of. L. Lilienfeld. No. 1,427,215; Aug. 29.
Dies, Upsetting. W. L. Clouse. No. 1,427,521; Aug. 29.
Digger: *See*—
Potato digger.
Dipper-tooth point with hollow surfaces. W. S. McKee. No. 1,427,610; Aug. 29.
Disk wheel. G. H. Forsyth. No. 1,427,366; Aug. 29.
Disk-wheel construction. G. E. Harvey. No. 1,427,209; Aug. 29.
Display rack. E. B. Weston. Nos. 1,427,248–9; Aug. 29.
Disposal can. C. H. Felten. No. 1,427,525; Aug. 29.
Distilling and rectifying column. E. A. Barbet. No. 1,427,430; Aug. 29.
Drawing frames, Top-roll clearer board and apron clip for. A. H. Lambert and J. Dubois. No. 1,427,158; Aug. 29.
Dust collector. W. T. Blaney. No. 1,427,674; Aug. 29.
Electric-circuit-protecting device. S. N. Baruch. No. 1,427,255; Aug. 29.
Electric heater. P. Daniel. No. 1,457,094; Aug. 29.
Electric machine of the inductive type, Single-phase dynamo-. L. W. Chubb. No. 1,427,360; Aug. 29.
Electric machines, Coil support for dynamo-. W. K. McAfee. No. 1,427,401; Aug. 29.
Electric motor. W. R. Ray. No. 1,427,416; Aug. 29.
Electric switch. R. H. Miller. No. 1,427,312; Aug. 29.
Electric water heater. A. C. Hulbert. No. 1,427,596; Aug. 29.
Electrical precipitation, Apparatus for. C. L. Fortescue. No. 1,427,370; Aug. 29.
Electrolytic apparatus. A. W. Smith. No. 1,427,171; Aug. 29.
Electrolytic method and apparatus. J. J. Sherwood. No. 1,427,236; Aug. 29.
Elevator: *See*—
Sucker-rod elevator.
Elevator-control system, Electric-. S. W. Rushmore. No. 1,427,644; Aug. 29.
Embroidery machine, Shuttle. E. Verse. No. 1,427,564; Aug. 29.
Engine: *See*—
Explosive engine. Internal-combustion rotary engine.
Fluid engine.
Internal-combustion engine.
Engine starting and lighting generators, Gearing for. A. J. Kloneck. No. 1,427,301; Aug. 29.
Engine-testing apparatus. W. R. McCullia. No. 1,427,218; Aug. 29.
Engines, Fuelizing manifold for internal-combustion. W. Martin. No. 1,427,540; Aug. 29.
Engines, Governing mechanism for internal-combustion. J. F. Lindberg. No. 1,427,485; Aug. 29.
Envelope and opener, Safety. W. Weiss. No. 1,427,666; Aug. 29.
Envelope-making machines, Delivery mechanism for. A. E. Augustine. No. 1,427,083; Aug. 29.
Envelopes or similar wrappers, Closure for. L. A. Olivé. No. 1,427,165; Aug. 29.
Exhibiting device. A. Ames, jr. No. 1,427,428; Aug. 29.
Expansion joint. F. P. Smith. Nos. 1,427,557–8; Aug. 29.
Explosive engine. H. E. Shepard. No. 1,427,555; Aug. 29.
Fan or turbine wheel, Construction of rotary. S. O. Johns. No. 1,427,391; Aug. 29.
Food regulator, Proportional-. L. E. Maxey. No. 1,427,405; Aug. 29.
Feeder. E. D. Richardson. No. 1,427,640; Aug 29.
Feeder. L. I. Ziegler. No. 1,427,341; Aug. 29.
Fender rim and wired-edge tool and the like. H. R. Kennedy. Nos. 1,427,299–300; Aug. 29.
Fiber liberation. G. A. Richter. No. 1,427,125; Aug. 29.
File, Letter. F. M. Kilfoyle. No. 1,427,397; Aug. 29.
Filling machine. C. J. Clear. No. 1,427,265; Aug. 29.

Fire door, Ventilated. W. B. Gervais. No. 1,427,282; Aug. 29.
Fireproof wall. W. Gerwerdts. No. 1,427,372; Aug. 29.
Fish trap. H. Podolsky. No. 1,427,321; Aug. 29.
Flag holder. C. Selisnik. No. 1,427,646; Aug. 29.
Flame spreader. E. F. Drake. No. 1,427,096; Aug. 29.
Floor construction. T. G. Nicholson. No. 1,427,625; Aug. 29.
Floor covering. W. G. Thomas, jr. No. 1,427,655; Aug. 29.
Fluid-controlling device. M. E. Gates. No. 1,427,455; Aug. 29.
Fluid engine. C. P. Salgee. No. 1,427,701; Aug. 29.
Fluid masses, Apparatus for agitating. B. A. Hook. No. 1,427,210; Aug. 29.
Fluid-pressure motor. W. H. Keller, M. Maximilian, and A. Schinkez. No. 1,427,157; Aug. 29.
Fluid, semifluid, and plastic substances, Device for feeding. F. McLaughlin. No. 1,427,758; Aug. 29.
Flying-machine cover. C. Dornier. No. 1,427,448; Aug. 29.
Flytrap for use with live stock. J. W. Gibbons. No. 1,427,204; Aug. 29.
Fountains, Faucet for soda. F. W. A. Brockmiller. No. 1,427,148; Aug. 29.
Frame: *See*—
Screen frame.
Fumigator, Iodine. W. L. Capell. No. 1,427,515; Aug. 29.
Furnace attachment. W. H. Kurtz. No. 1,427,483; Aug. 29.
Furnace construction, Electric-. W. E. F. Bradley. No. 1,427,436; Aug. 29.
Furniture, Combination. N. J. Greenlson. No. 1,427,588; Aug. 29.
Furniture, Reed. J. J. Croft. No. 1,427,581; Aug. 29.
Game. T. H. Johnson. No. 1,427,156; Aug. 29.
Game. F. Tenney. No. 1,427,135; Aug. 29.
Game apparatus. F. T. H. D. Krauth. No. 1,427,482; Aug. 29.
Garbage container. C. C. Huber. No. 1,427,472; Aug. 29.
Garment fastener. W. J. Starn. No. 1,427,561; Aug. 29.
Garment support. T. Hall. No. 1,427,104; Aug. 29.
Gas generator and burner, Hydrocarbon-. H. C. Sillett. No. 1,427,129; Aug. 29.
Gasket, Collapsible expansion. L. Friedman and D. Wallace. No. 1,427,099; Aug. 29.
Gasoline, Means for filtering. H. A. Deeks. No. 1,427,196; Aug. 29.
Gas-pipe-manipulating apparatus. W. Richter. No. 1,427,699; Aug. 29.
Gas reclaimer. H. E. Tracy. No. 1,427,337; Aug. 29.
Gauge: *See*—
Dental pressure gauge.
Gearing. E. Glass. No. 1,427,374; Aug. 29.
Gearing, Reducing. E. G. Johanson. No. 1,427,599; Aug. 29.
Gear-shift indicator. A. Raich. No. 1,427,415; Aug. 29.
Gear wheel, Noiseless. M. O. Christenson. No. 1,427,721; Aug. 29.
Generator: *See*—
Steam generator.
Glasses for preserved fruits and the like, Closure for. H. Schwieger, née Kipp. No. 1,427,128; Aug. 29.
Golf-practicing apparatus. E. M. Long. No. 1,427,538; Aug. 29.
Golf putting, Artificial hole for indoor. E. M. Long. No. 1,427,537; Aug. 29.
Golf training, exercising, and practicing apparatus. E. M. Long. No. 1,427,536; Aug. 29.
Grader. C. J. Clear. No. 1,427,264; Aug. 29.
Gramophone and like sound-producing instrument. J. Jofeh. No. 1,427,211; Aug. 29.
Grate, Rotary furnace. L. Tréfois. No. 1,427,338; Aug. 29.
Grinders, Attachment for food. H. F. Bruck. No. 1,427,719; Aug. 29.
Grinding machines, Reversing control for. A. C. Krull. No. 1,427,756; Aug. 29.
Gun barrel with breech pieces screwed on A-tubes. J. Vollmer. No. 1,427,137; Aug. 29.
Gun-cleaning device. J. H. Cumpston. No. 1,427,582; Aug. 29.
Hair clipper. F. Fugitt. No. 1,427,587; Aug. 29.
Handle: *See*—
Casket handle. Wheelbarrow handle.
Hanger: *See*—
Clothes hanger.
Harness retractor. A. H. Landry. No. 1,427,604; Aug. 29.
Hay cutter. A. Groff. No. 1,427,733; Aug. 29.
Headlamps, Reflector for automobile. W. F. Little. No. 1,427,216; Aug. 29.
Headlight. J. Whyte. No. 1,427,505; Aug. 29.
Headlight, Automobile. J. A. Ayala. No. 1,427,085; Aug. 29.
Heater: *See*—
Automobile heater. Electric water heater.
Electric heater. Oil heater.
Heater support. R. E. Gove. No. 1,427,375; Aug. 29.
Heating system, Oil burning. L. L. Scott. No. 1,427,700; Aug. 29.
Heating systems, Burner for oil-. H. M. Sheer. No. 1,427,704; Aug. 29.
Heel, Removable. H. J. Champagne. No. 1,427,261; Aug. 29.
Hides and skins, Tanning. E. W. Merry. No. 1,427,221; Aug. 29.
Hinge. V. Filonowicz. No. 1,427,279; Aug. 29.
Hoisting apparatus. G. F. Meyers. No. 1,427,310; Aug. 29.
Hook-switch mechanism. R. H. Manson. No. 1,427,160; Aug. 29.
Horn, Pneumatic. W. A. Garratt. No. 1,427,281; Aug. 29.
Horns, Bulb for pneumatic warning. F. J. Smith. No. 1,427,497; Aug. 29.
Hose coupling. A. H. Handlan, jr. No. 1,427,105; Aug. 29.
Hose draining and drying reel. E. P. Endlich. No. 1,427,273; Aug. 29.
Hydroaeroplane. J. W. Bowen, S. M. Hart, and J. E. Bowen. No. 1,427,257; Aug. 29.
Ice-cream-cone carrier. P. Brown. No. 1,427,440; Aug. 29.
Index tab. J. H. Rand. No. 1,427,549; Aug. 29.
Indicator: *See*—
Gear-shift indicator.
Insect exterminator. P. B. Clausen. No. 1,427,723; Aug. 29.
Insulating composition. J. Najarian. No. 1,427,621; Aug. 29.
Insulating material. F. Salathe, jr. No. 1,427,230; Aug. 29.
Internal-combustion engine. C. R. Pryor. No. 1,427,632; Aug. 29.
Internal-combustion rotary engine. T. G. Mahon and J. P. Burnes. No. 1,427,692; Aug. 29.
Ironing-board, cabinet. W. P. Ballard and W. D. Perry. No. 1,427,343; Aug. 29.
Jack. J. B. Hasty. No. 1,427,459; Aug. 29.
Jack. F. R. Sunderman. No. 1,427,241; Aug. 29.
Jar closure. O. C. Davis. No. 1,427,151; Aug. 29.
Joint: *See*—
Expansion joint. Rail joint.
Kitchen utensil. H. S. Britton. No. 1,427,439; Aug. 29.
Knife-blade switch. G. L. Christman. No. 1,427,359; Aug. 29.
Knuckle-joint connection. F. F. Couch. No. 1,427,361; Aug. 29.
Knuckle-joint connection. W. Jones. No. 1,427,392; Aug. 29.
Ladder, Roof. H. W. Hughes. No. 1,427,294; Aug. 29.
Lamp. E. A. Hawthorne. No. 1,427,291; Aug. 29.
Lamp bracket for bicycles. C. W. Hambrock. No. 1,427,532; Aug. 29.
Lamp and making bases therefor. G. H. Rolfes. No. 1,427,126; Aug. 29.
Lamps and accessories, Gauge for electric. H. D'Olier, jr. No. 1,427,586; Aug. 29.
Lamp, Spot. E. G. K. Anderson. (Reissue.) No. 15,437; Aug. 29.
Lamp stand. E. Herbeck. No. 1,427,462; Aug. 29.
Lamp, Vehicle. E. S. Preston. No. 1,427,631; Aug. 29.
Lamps, Weather protecting ring for street. W. G. Barclay. No. 1,427,344; Aug. 29.
Lasting machine. M. M. Sörensen. No. 1,427,498; Aug. 29.
Latch device, Door-. W. H. Appleby. No. 1,427,252; Aug. 29.
Lathe. J. S. Lapp. No. 1,427,213; Aug. 29.
Lathes, Taper attachment for. W. Avery. No. 1,427,510; Aug. 29.
Lath, Expanded wood. J. A. Waller. No. 1,427,246; Aug. 29.
Lead-cable-covering press. R. Poliakoff. No. 1,427,698; Aug. 29.
Leaf spring, Self-lubricating. W. H. Woodman. No. 1,427,340; Aug. 29.
Leer, feeder. R. W. Niver. No. 1,427,164; Aug. 29.
Lens and making same, Trifocal. L. W. Bugbee. No. 1,427,192; Aug. 29.
Lens, Bifocal. L. W. Bugbee. No. 1,427,577; Aug. 29.
Letter-reproducing device. J. P. Bannigan. No. 1,427,254; Aug. 29.
Letter sheet and envelope, Combined. W. G. Gruber. No. 1,427,590; Aug. 29.
Lever. A. Grieves. No. 1,427,684; Aug. 29.
Light-controlling device. J. Whyte. No. 1,427,504; Aug. 29.
Lighting set. L. B. Manson. No. 1,427,489; Aug. 29.
Light-projection-regulating means. A. C. Wood. No. 1,427,251; Aug. 29.
Liquid-fuel burner. F. I. du Pont. No. 1,427,449; Aug. 29.
Liquid-fuel burner. R. Farness and M. G. Bittel. No. 1,427,202; Aug. 29.
Liquid-fuel burner. D. J. Nysewander. No. 1,427,227; Aug. 29.
Lock: *See*—
Automobile lock. Nut lock.
Bag lock. Permutation lock.
Clutch-pedal lock.
Locking nut. A. B. Morse. No. 1,427,313; Aug. 29.
Loom transfer mechanism. A. E. Stafford. No. 1,427,421; Aug. 29.
Looms, Filling clamping and parting means for. H. J. Hedler. No. 1,427,380; Aug. 29.
Looms, Filling clamping and parting means for. A. E. Rhoades. Nos. 1,427,637–9; Aug. 29.
Looms, Filling clamping and parting mechanism for. E. S. Stimpson. Nos. 1,427,422–3; Aug. 29.
Looms, Warp-tension-locking mechanism for. A. E. Rhoades. No. 1,427,636; Aug. 29.
Lotion. L. O. Foote. No. 1,427,199; Aug. 29.
Lubricating system. G. C. Brown. No. 1,427,190; Aug. 29.

Luggage rack. F. M. Stoll. No. 1,427,173; Aug. 29.
Lumber cut-off machine. C. Johnson. No. 1,427,297; Aug. 29.
Magnesium carbonate, Producing. C. Cramer. No. 1,427,444; Aug. 29.
Magneto-electric machine. A. P. Young. No. 1,427,671; Aug. 29.
Magnetos, Actuating mechanism for. P. Brown. No. 1,427,718; Aug. 29.
Measuring apparatus, Liquid-. J. F. Milligan. No. 1,427,115; Aug. 29.
Measuring instrument, Precision. W. E. Swartout. No. 1,427,132; Aug. 29.
Meat cutter. F. G. Walker. No. 1,427,661; Aug. 29.
Meats, Prepared. E. O. Brickman. No. 1,427,438; Aug. 29.
Mercury, Container for. W. H. Bowman. No. 1,427,351; Aug. 29.
Metal wheel. J. Ledwinka. No. 1,427,747; Aug. 29.
Metals, Working. O. C. Gilbert. Nos. 1,427,100–1; Aug. 29.
Meter: *See*—
Tire-pressure meter.
Microscopes, Illuminating device for. W. A. Beck. No. 1,427,714; Aug. 29.
Mill: *See*—
Pulverizing mill.
Milling machine. W. Schmid. No. 1,427,761; Aug. 29.
Mining and loading machine. E. C. Morgan. Nos. 1,427,118–19; Aug. 29.
Mining tool. A. L. McDonald. No. 1,427,609; Aug. 29.
Mixing machine. E. Eger. Nos. 1,427,271–2; Aug. 29.
Mold and treating same. H. A. Myers. No. 1,427,226; Aug. 29.
Molds for founding, Filling. E. O. Beardsley and W. F. Piper. No. 1,427,349; Aug. 29.
Molding apparatus for founding. E. O. Beardsley and W. F. Piper. No. 1,427,348; Aug. 29.
Mop. F. W. Pendergast. No. 1,427,627; Aug. 29.
Mop head. D. Kenner. No. 1,427,478; Aug. 29.
Molding machine. H. Tschernitz. No. 1,427,339; Aug. 29.
Molding machine. R. McClenathen. No. 1,427,217; Aug. 29.
Molding of objects by means of centrifugal force. H. P. Amphlett and E. L. Jones. No. 1,427,598; Aug. 29.
Motor: *See*—
Chain motor.
Combustion motor.
Current motor.
Electric motor.
Fluid-pressure motor.
Motor cycles, Rear-drive chassis for. T. Gordon. No. 1,427,731; Aug. 29.
Motor stand. C. V. Fisher. No. 1,427,153; Aug. 29.
Motor support. A. L. Bausman. No. 1,427,713; Aug. 29.
Moving elements, Apparatus for guiding independently. H. I. Washburn. No. 1,427,664; Aug. 29.
Mower, Lawn. G. E. Morehouse. No. 1,427,617; Aug. 29.
Mud shoe. G. O. Baird. No. 1,427,571; Aug. 29.
Munition casing. V. Mauck. No. 1,427,220; Aug. 29.
Music rolls, Machine for making perforated. A. Suehy, jr., and E. W. Hopper. No. 1,427,336; Aug. 29.
Neckband and collar holder. J. Layden. No. 1,427,746; Aug. 29.
Necktie supporter. C. R. Wheeler. No. 1,427,139; Aug. 29.
Nonrefillable container. A. Vermeulen. No. 1,427,245; Aug. 29.
Nozzle, Vacuum-cleaner. A. C. Frank. No. 1,427,200; Aug. 29.
Nut lock. R. L. Cochrane. No. 1,427,194; Aug. 29.
Nut lock. W. M. Wear and W. L. Drake. No. 1,427,566; Aug. 29.
Oil heater. B. S. Nelson. No. 1,427,408; Aug. 29.
Oil pan. G. F. Graves. No. 1,427,377; Aug. 29.
Oil switch. G. Cameron. No. 1,427,442; Aug. 29.
Oil wells, Rotary core drill for. P. C. Hill. No. 1,427,685; Aug. 29.
Oils and revivifying the catalyst, Process and apparatus for catalyzing. E. V. Owen. No. 1,427,626; Aug. 29.
Ores and producing same, Composition and substance for use in concentration of. A. Schwarz. No. 1,427,232; Aug. 29.
Ores by volatilization, Treating. H. R. Layng. No. 1,427,765; Aug. 29.
Ores, Concentration of. G. E. Sheridan and G. G. Griswold, jr. No. 1,427,235; Aug. 29.
Ornamental surfaces, Producing. M. E. Gates. No. 1,427,454; Aug. 29.
Packing case. H. H. Read. No. 1,427,633; Aug. 29.
Packing head, Automatic expansible. R. C. Sharp. No. 1,427,647; Aug. 29.
Packing heads, Expansible. R. C. Sharp. No. 1,427,648; Aug. 29.
Paint package. J. W. Hasburg. Nos. 1,427,288–90; Aug. 29.
Pan: *See*—
Oil pan.
Paper carried by smut-sheet machines, Means for steadying. J. E. Gilbert and G. W. Harris. No. 1,427,530; Aug. 29.
Paper drying machine. P. Brener. No. 1,427,437; Aug. 29.
Paper felt. A. L. and C. B. Clapp. No. 1,427,263; Aug. 29.
Pattern, Glove. W. A. Ruddell. No. 1,427,419; Aug. 29.
Peeling apparatus and process. S. J. Dunkley. No. 1,427,270; Aug. 29.
Peeling machines, Lyeing section of. S. J. Dunkley. No. 1,427,269; Aug. 29.
Pen, Fountain. G. Bartle, S. Glickman, and L. Jacovitz. No. 1,427,711; Aug. 29.
Pencil. H. L. Fischer. No. 1,427,729; Aug. 29.
Pencil. W. R. Noe. No. 1,427,409; Aug. 29.
Permutation lock. J. B. Heller. No. 1,427,382; Aug. 29.
Permutation lock. A. F. Jacobson. No. 1,427,106; Aug. 29.
Permutation mechanism. J. B. Heller. No. 1,427,381; Aug. 29.
Pharmaceutical compound. H. Weyland, H. Hahl, and R. Berendes. No. 1,427,182; Aug. 29.
Phonographic apparatus. C. C. Guernsey. No. 1,427,734; Aug. 29.
Phonographs, Automatic start and stop attachment for. S. Kohn. No. 1,427,479; Aug. 29.
Photographs, Producing educational. C. F. Merriam. No. 1,427,615; Aug. 29.
Photographic apparatus. G. A. and R. I. Lewis. No. 1,427,750; Aug. 29.
Photographic developing and fixing apparatus. F. E. Jones and C. A. Schwab. No. 1,427,741; Aug. 29.
Picture machines, Film-actuating mechanism for. F. H. Kaiser. No. 1,427,602; Aug. 29.
Picture machines, Film-feeding means for motion-. J. R. Hunt. No. 1,427,597; Aug. 29.
Picture machines, Shutter mechanism for moving-. N. Power. No. 1,427,228; Aug. 29.
Picture-projecting machine. J. W. and K. S. Brenkert. No. 1,427,575; Aug. 29.
Pictures, Production of color. C. W. R. Campbell and F. G. A. Roberts. No. 1,427,578; Aug. 29.
Pictures with exaggerated perspective, Producing. B. E. Giffen. No. 1,427,456; Aug. 29.
Pipe: *See*—
Tobacco pipe.
Pipe fitting, Waste and vent. B. Kaplan. No. 1,427,107; Aug. 29.
Pistol, Automatic. F. Frederle. No. 1,427,097; Aug. 29.
Pistol, Automatic. N. Pieper. No. 1,427,413; Aug. 29.
Piston. H. B. Grant. No. 1,427,205; Aug. 29.
Piston and piston ring. M. H. Sullivan. No. 1,427,425; Aug. 29
Piston-rod connection, Universal. G. P. Allen. No. 1,427,673; Aug. 29.
Plane, Supporting. C. Dornier. No. 1,427,447; Aug. 29.
Pliers. F. H. Williams. No. 1,427,668; Aug. 29.
Pliers. H. H. Jones. No. 1,427,298; Aug. 29.
Plow. R. C. Caughey. No. 1,427,357; Aug. 29.
Plow. R. H. Wilson. No. 1,427,141; Aug. 29.
Plow, Reversible. C. B. Culbertson. No. 1,427,677; Aug. 29.
Plows, Subsoiler attachment for. J. P. Little. No. 1,427,305; Aug. 29.
Pocket guard. G. B. Spear. No. 1,427,499; Aug. 29.
Pool tables, Attachment for. J. H. McCool. No. 1,427,691; Aug. 29.
Post and brush puller. S. O. Bryant. No. 1,427,576; Aug. 29.
Potato digger. F. A. Yantz. No. 1,427,145; Aug. 29.
Poultry decapitator. L. Suther. No. 1,427,562; Aug. 29.
Power-developing apparatus. A. T. Kasley. No. 1,427,108; Aug. 29.
Press: *See*—
Lead-cable-covering press.
Presser-foot, Seam guiding. G. F. Egan. No. 1,427,197; Aug. 29.
Pressure regulator. W. C. Bucknam. No. 1,427,191; Aug. 29.
Pressure regulator. A. W. Lissauer. No. 1,427,112; Aug. 29.
Printing machine. A. Alexander. No. 1,427,569; Aug. 29.
Printing presses and other machines, Braking system for. C. T. Henderson. No. 1,427,461; Aug. 29.
Projectiles, Antifouling metal for. S. Rousseau and W. Yoxall. No. 1,427,127; Aug. 29.
Propeller. R. C. MacKenney. No. 1,427,307; Aug. 29.
Propeller. W. R. Turnbull. No. 1,427,178; Aug. 29.
Proteid substances, Manufacturing vegetable. S. Satow. No. 1,427,645; Aug. 29.
Puller: *See*—
Post and brush puller.
Pulverizing apparatus, Dry-. R. E. H. Pomeroy. No. 1,427,322; Aug. 29.
Pulverizing mill. D. V. Sherban. No. 1,427,234; Aug. 29.
Pump. F. A. J. Brown. No. 1,427,512; Aug. 29.
Pump. R. H. Johnson. No. 1,427,740; Aug. 29.
Pump, Oscillating vacuum. B. G. A. Harkness and H. F. Vossoler. No. 1,427,533; Aug. 29.
Pump plungers, Combined cup protector and casing cleaner for. J. L. Bostic. No. 1,427,435; Aug. 29.
Rack: *See*—
Display rack.
Luggage rack.
Rack. E. B. Weston. No. 1,427,247; Aug. 29.
Rack. F. J. Wolff and A. H. Wegener. No. 1,427,142; Aug. 29.
Radiator for gas heating by incandescence. A. Garbarini. No. 1,427,371; Aug. 29.
Radiotelegraphic coupling. J. Bethenod. No. 1,427,350; Aug. 29.
Rail clamp, Extension-. W. F. Henke. No. 1,427,737; Aug. 29.

Rail fastener. E. H. Phillips. No. 1,427,629; Aug. 29.
Rail joint. L. Grzosko. No. 1,427,287; Aug. 29.
Rail joint. F. E. Huss and W. W. Momsen. No. 1,427,739; Aug. 29.
Railway crossing, Inserted-center. W. G. Nichols. No. 1,427,122; Aug. 29.
Railway switch. H. Tanttila and J. Sorola. No. 1,427,563; Aug. 29.
Railway tie. G. W. Dallimore. No. 1,427,522; Aug. 29.
Railway-tie adzing machine. P. V. Carman. No. 1,427,516; Aug. 29.
Razor, Safety. P. J. Jaccard. No. 1,427,686; Aug. 29.
Reaming tool, Cylinder-. A. Callebert. No. 1,427,514; Aug. 29.
Receptacle, Metal. F. W. Tobey. No. 1,427,244; Aug. 29.
Recorder: *See*—
Topographic recorder.
Refrigerating apparatus. C. W. Hapgood. No. 1,427,379; Aug. 29.
Refrigerator. G. J. Gruendler. No. 1,427,207; Aug. 29.
Refrigerators and ice boxes, Apparatus for icing. O. R. Curran. No. 1,427,445; Aug. 29.
Regulator: *See*—
Feed regulator.
Pressure regulator.
Road roller. A. W. Aitken. No. 1,427,751; Aug. 29.
Roller: *See*—
Road roller.
Roofing, Built-up. W. A. Harris. No. 1,427,755; Aug. 29.
Roofs, Edge support for. O. Petersen. No. 1,427,412; Aug. 29.
Rope or cable connector or grip. L. C. Glerymski and C. Bohdanovicz. No. 1,427,284; Aug. 29.
Rubber articles, Apparatus for vulcanizing. M. O. Kasson. No. 1,427,109; Aug. 29.
Saddle, Cycle, motor-cycle, and analogous. A. H. Lawrence. No. 1,427,484; Aug. 29.
Safe and vault. M. J. Kerley. No. 1,427,688; Aug. 29.
Salicyl aldehyde, Producing. C. C. Loomis. No. 1,427,400; Aug. 29.
Sand-blast apparatus. J. E. Green. No. 1,427,206; Aug. 29.
Scaffold hanger. J. C. Fleming. No. 1,427,453; Aug. 29.
Scale. H. D. Ridge. No. 1,427,760; Aug. 29.
Scissors-grinding machine. S. O. Heindl. No. 1,427,735; Aug. 29.
Scraper, Earth. A. R. Miskin. No. 1,427,693; Aug. 29.
Screen frame. F. Mushall. No. 1,427,620; Aug. 29.
Screw threads, Milling. G. Richards, L. N. Burt, and J. E. Freeborn. No. 1,427,169; Aug. 29.
Seat: *See*—
Automobile seat.
Separator. E. J. and R. H. Moore. No. 1,427,117; Aug. 29.
Separators, Supporting strip for conical liner plates in the bowl of centrifugal. H. O. Lindgren. No. 1,427,486; Aug. 29.
Sewing machine. J. L. Wheeler. No. 1,427,140; Aug. 29.
Sewing machines, Measuring attachment for. S. C. Copoll. No. 1,427,676; Aug. 29.
Shaft cutting and centering machine. A. H. Segler. No. 1,427,233; Aug. 29.
Sharpening machine, Blade-. W. E. Nickerson. No. 1,427,163; Aug. 29.
Sharpening mechanism, Blade-. C. A. Strand. No. 1,427,130; Aug. 29.
Sheet material and making same, Permeable. W. A. Gibbons and H. W. Ritter. No. 1,427,754; Aug. 29.
Sheet metal, Forming an article of. W. H. Needham. No. 1,427,315; Aug. 29.
Shelf, shutter, and the like, Folding. A. J. Ware. No. 1,427,663; Aug. 29.
Shingle, Flexible. A. A. Griswold. No. 1,427,154; Aug. 29.
Shingle, Flexible. A. A. Griswold. No. 1,427,732; Aug. 29.
Shingle strip, Hinged-. G. B. Ferguson. (Reissue.) No. 15,439; Aug. 29.
Shirt and neckband construction. J. Layden. No. 1,427,744; Aug. 29.
Shock absorber. J. Konigsberg. No. 1,427,480; Aug. 29.
Shock absorber. R. Ragsdale. No. 1,427,327; Aug. 29.
Shock absorber. R. Ragsdale. No. 1,427,414; Aug. 29.
Shoe. T. C. Lloyd. No. 1,427,607; Aug. 29.
Shoe sole and heel protector, Metal. J. H. Kindsvater. No. 1,427,742; Aug. 29.
Shovel or scoop. E. W. Doyle. No. 1,427,523; Aug. 29.
Sifter attachment, Flour-. C. Rude. No. 1,427,643; Aug. 29.
Silk, Device for throwing washing and reeling spooled artificial. R. Sinkwitz. No. 1,427,238; Aug. 29.
Skylight, Ventilating. J. Sylvan. No. 1,427,175; Aug. 29.
Slicing machines, Attachment for meat-. C. T. Zocher. No. 1,427,710; Aug. 29.
Sling for handling cargo and other goods. J. R. Clay. No. 1,427,724; Aug. 29.
Sound box. E. Fletcher. No. 1,427,198; Aug. 29.
Sound-record tablet, Multiple. C. H. Gill. No. 1,427,373; Aug. 29.
Sounding apparatus. L. L. Westling. No. 1,427,181; Aug. 29.
Spark plug. F. Kraemer. No. 1,427,481; Aug. 29.
Spinning and balling machine. L. E. Whitcomb. No. 1,427,667; Aug. 29.
Spinning frames, Bunch-building attachment for. C. A. Pierce. No. 1,427,697; Aug. 29.
Spotlight. E. W. Reiber. No. 1,427,320; Aug. 29.
Sprayer, Paint. H. O. Norris. No. 1,427,495; Aug. 29.
Spring connection. H. W. Bell. No. 1,427,186; Aug. 29.
Spring-seat. A. Wilk. No. 1,427,183; Aug. 29.
Spring suspension. H. W. Bell. No. 1,427,185; Aug. 29.
Stair construction. H. L. Feldblet and J. R. O'Donnell. No. 1,427,276; Aug. 29.
Stall. E. H. and W. H. Moffatt. No. 1,427,224; Aug. 29.
Stamp-delivery machine, Automatic. H. Thun. No. 1,427,136; Aug. 29.
Stanchion, Portable. J. F. Evers. No. 1,427,274; Aug. 29.
Stand: *See*—
Lamp stand.
Motor stand.
Switch stand.
Steam-generator. J. Taylor. No. 1,427,176; Aug. 29.
Steam-trap. G. A. Mollique. No. 1,427,116; Aug. 29.
Steel, Heat treatment of manganese. W. G. Nichols. No. 1,427,121; Aug. 29.
Steel plate, Reenforced. R. A. Nelson. No. 1,427,120; Aug. 29.
Steering gear, Trailer. O. E. Byron. No. 1,427,513; Aug. 29.
Steering mechanism. G. Riesner. No. 1,427,641; Aug. 29.
Steering-wheel construction. E. J. Lobdell, jr. No. 1,427,487; Aug. 29.
Stepladder stool, Folding. J. F. Holliday. No. 1,427,293; Aug. 29.
Stock-positioning mechanism. G. S. MacDowell and H. A. Perkins. No. 1,427,757; Aug. 29.
Stove. R. E. Campbell. No. 1,427,354; Aug. 29.
Strainer. D. D. Walker. No. 1,427,565; Aug. 29.
Strainer, Air-trap gasoline. R. M. Mueller. No. 1,427,619; Aug. 29.
Street-cleaning apparatus. H. A. Boldt. No. 1,427,188; Aug. 29.
Strips, Gage for marking and cutting. L. M. Dabney. No. 1,427,266; Aug. 29.
Sucker-rod elevator, Automatic. W. W. H. Burnette. No. 1,427,675; Aug. 29.
Switch: *See*—
Electric switch.
Knife-blade switch.
Oil switch.
Railway switch.
Switchboard call-signal apparatus and circuits. L. W. Cooper. No. 1,427,725; Aug. 29.
Switchboard call-signal apparatus and circuits. R. W. Morris. No. 1,427,695; Aug. 29.
Switch stand. F. C. Anderson. No. 1,427,082; Aug. 29.
Swivel and gearing, Shaft-connecting. F. W. Stewart. No. 1,427,652; Aug. 29.
Table. A. Hemshewski. No. 1,427,383; Aug. 29.
Talking machines, Automatic stop for. J. Brandstetter. No. 1,427,717; Aug. 29.
Tank or storage receptacle. W. H. Parton. No. 1,427,166; Aug. 29.
Teeter, Swiveling. A. B. Christopher. No. 1,427,722; Aug. 29.
Teeth, Setting tacks in porcelain. I. Shikusawa. No. 1,427,237; Aug. 29.
Telephone-exchange system. F. M. Slough. No. 1,427,170; Aug. 29
Telephone switch and system, Automatic. D. S. Hulfish. No. 1,427,473; Aug. 29.
Telescope. H. W. Hales. No. 1,427,592; Aug. 29.
Tennis racket. W. T. Aldrich. No. 1,427,568; Aug. 29.
Textile articles, Manufacture of hollow artificial. J. Rousset. No. 1,427,330; Aug. 29.
Tie: *See*—
Railway tie.
Timer. J. A. Holm. No. 1,427,594; Aug. 29.
Tin mills, Machine for separating stickers on the opening floors of. J. C. Timberlake. No. 1,427,177; Aug. 29.
Tire. V. Nave. No. 1,427,622; Aug. 29.
Tire for vehicles. A. J. Kloneck. No. 1,427,302; Aug. 29.
Tire-pressure gauges, Means for supporting and operating. E. J. Horne. No. 1,427,389; Aug. 29.
Tire-pressure meter. A. A. Anderson. No. 1,427,146; Aug. 29.
Tire, Resilient vehicle. F. W. Sherwood. No. 1,427,331; Aug. 29.
Tire rim. J. A. Villochi. No. 1,427,707; Aug. 29.
Tire, Vehicle wheel. M. Clark. No. 1,427,092; Aug. 29.
Tires, Core for forming automobile. A. German. No. 1,427,528; Aug. 29.
Tobacco pipe. F. W. Smith. No. 1,427,762; Aug. 29.
Tongs, Power. A. D. Hoeflinger. No. 1,427,469; Aug. 29.
Tool holder. T. O. Martin. No. 1,427,403; Aug. 29.
Tool, Impact. W. H. Shortell, and F. L. Sutliffe. No. 1,427,556; Aug. 29.
Tool, Jawed. J. H. Ridings. No. 1,427,550; Aug. 29.
Tooth cleaning and polishing bur. C. H. Wake. No. 1,427,503; Aug. 29.
Topographic recorder. D. Sensaud de Lavaud. No. 1,427,267; Aug. 29.
Towel dispenser. F. L. Sargent. No. 1,427,420; Aug. 29.
Toy airship. B. B. Keith. No. 1,427,396; Aug. 29.
Toy, Mechanical. P. T. Jackson and G. F. Pickett. No. 1,427,295; Aug. 29.
Toy, Mechanical. W. Jakubiec. No. 1,427,296; Aug. 29.
Toy submarine. E. R. Wilson and P. H. Best. No. 1,427,669; Aug. 29.
Toy, Traveling. J. Torres-Garcia. No. 1,427,657; Aug. 29.
Tractor. H. Lindner. No. 1,427,399; Aug. 29.
Tractor coupling. A. York. No. 1,427,709; Aug. 29.
Traction wheel. H. Partridge. No. 1,427,167; Aug. 29.

Tractor wheel, Farm-. J. De Camp. No. 1,427,095; Aug. 29.
Tractor wheels, Grouter for. J. F. Roberts. No. 1,427,418; Aug. 29.
Train-pipe coupling. C. A. Bluhm. No. 1,427,716; Aug. 29.
Trammel point. H. S. Grace. No. 1,427,376; Aug. 29.
Transformers of small power, Manufacturing electric. C. M. E. Priestley. No. 1,427,324; Aug. 29.
Transmission. O. P. Miller. No. 1,427,223; Aug. 29.
Trap: *See*—
Steam trap.
Trap. H. W. Justus. No. 1,427,600; Aug. 29.
Tray-stacking machine. G. Matsushita. No. 1,427,490; Aug. 29.
Trees with dry sulphur, Device for dusting. C. A. Lang. No. 1,427,743; Aug. 29.
Trolley harp. J. G. Vinson. No. 1,427,659; Aug. 29.
Trousers supporter. R. S. Miller. No. 1,427,406; Aug. 29.
Trousers-supporting device. L. T. Struck. No. 1,427,335; Aug. 29.
Truck, Lifting. W. Stuebing, jr., and H. A. Van Guelpen. No. 1,427,764; Aug. 29.
Trucks, Loading and unloading apparatus for. V. L. J. Bourgeois. No. 1,427,189; Aug. 29.
Tube, Self-healing. E. Fetter. Nos. 1,427,277–8; Aug. 29
Tungstic oxide to tungsten metal, Reducing. W. F. Bleecker. No. 1,427,187; Aug. 29.
Turbines, Diaphragm for steam. C. R. Waller. No. 1,427,179; Aug. 29.
Turnbuckle, Lock-wire. W. Martin. No. 1,427,114; Aug. 29.
Typewriters, Platen-carriage mechanism for. O. A. Hokanson. No. 1,427,470; Aug. 29.
Typewriting machine. H. Bates. Nos. 1,427,345–6; Aug. 29.
Typewriting machine. E. B. Hess and L. C. Myers. Nos. 1,427,464–8; Aug. 29.
Typewriting machine. A. G. F. Kurowski. No. 1,427,689; Aug. 29.
Typewriting machine. K. A. Lehmann. No. 1,427,398; Aug. 29.
Typewriting machine. O. Woodward. No. 1,427,143; Aug. 29.
Typographical composing and casting machines, Distributing mechanism of. J. E. Billington. No. 1,427,511; Aug. 29.
Typographical composing and casting machines, Distributing mechanism of. R. D. Carter. No. 1,427,517; Aug. 29.
Typographical composing, casting, and distributing machine. J. S. Thompson. No. 1,427,501; Aug. 29.
Typographical slug. L. C. Tinsley. No. 1,427,706; Aug. 29.
Umbrella-handle lighting device. L. Walicki and C. Bober. No. 1,427,138; Aug. 29.
Universal coupling or joint. J. Knight. No. 1,427,110; Aug. 29.
Urn, Perpetual-flower. I. T. Welch. No. 1,427,180; Aug. 29.
Utensil, Smoker's. S. F. Kohn. No. 1,427,303; Aug. 29.
Vacuum, Process and apparatus for producing and maintaining a. T. Tibbets. No. 1,427,656; Aug. 29.
Valve. F. C. Blanchard. No. 1,427,256; Aug. 29.
Valve. A. J. English. No. 1,427,680; Aug. 29.
Valve, Automatic. E. J. Fortier. No. 1,427,098; Aug. 29.
Valve, Coin-controlled air. M. Gibbs and J. H. Davis. No. 1,427,529; Aug. 29.
Valve device, Combination. H. O. Spencer. No. 1,427,239; Aug. 29.
Valve gear with rotary valves. M. Echard. No. 1,427,726; Aug. 29.
Valve mechanism. H. L. Knudsen. No. 1,427,111; Aug. 29.
Valve, Mixing. P. T. Leahy. No. 1,427,606; Aug. 29.
Valve, Oil-gauge. J. E. Evans. No. 1,427,681; Aug. 29.
Valve-operating mechanism. H. W. Herman. No. 1,427,385; Aug. 29.
Valve, Poppet. C. T. Bangs. (Reissue.) No. 15,438; Aug. 29.
Vault, Burial. C. W. Thompson and W. J. Quigley. No. 1,427,243; Aug. 29.
Vehicle. J. E. Hixson. No. 1,427,387; Aug. 29.
Vehicle accessory. R. T. Newton. No. 1,427,624; Aug. 29.
Vehicle body, Convertible. W. Reinhardt. No. 1,427,634; Aug. 29.
Vehicle discharging from the bottom. F. Finckh. No. 1,427,452; Aug. 29.
Vehicle lifting means. A. D. Lightner and E. Holmes. No. 1,427,214; Aug. 29.
Vehicle, Self-dumping. F. Finckh. No. 1,427,451; Aug. 29.
Vehicle spring and clip therefor. G. E. Wynne. No. 1,427,144; Aug. 29.
Vehicle top. E. A. Rathbun. No. 1,427,328; Aug. 29.
Vehicle trailer. E. J. Douglas. No. 1,427,365; Aug. 29.
Vehicle wheel. A. Balaguer. No. 1,427,429; Aug. 29.
Vehicle wheel drive. J. F. Denison. No. 1,427,584; Aug. 29.
Vehicle wheel, Resilient. A. Austin. No. 1,427,570; Aug. 29.
Vehicles, Door-controlled locking mechanism for. E. Keller. No. 1,427,212; Aug. 29.
Vehicles, Gate for covered. A. D. Daly. No. 1,427,195; Aug. 29.
Vehicles, Safety device for motor. M. Swartzman. No. 1,427,242; Aug. 29.
Vehicles, Sand distributor for motor. G. B. Lamping and J. A. Du Laney. No. 1,427,535; Aug. 29.
Vehicles, Spring suspension of. J. R. M. Stanfield. No. 1,427,240; Aug. 29.
Vehicles, Vision shield for. L. Lawson. No. 1,427,605; Aug. 29.
Velocipede. S. Rickey. No. 1,427,417; Aug. 29.
Ventilator. R. Herdlicka. No. 1,427,463; Aug. 29.
Vessel, Marine. H. G. C. Frahm. No. 1,427,526; Aug. 29.
Vessel, Sheet-metal. V. Mauck. No. 1,427,404; Aug. 29.
Wagon, Service. W. V. Holley. No. 1,427,388; Aug. 29.
Wall-climbing device. C. Henneking. No. 1,427,384; Aug. 29.
Wall coverings, Means for hanging. J. D. Stephens. No. 1,427,333; Aug. 29.
Walls for buildings, Construction of hollow. H. V. Kent. No. 1,427,534; Aug. 29.
Washboard clamp. F. C. Bohrl. No. 1,427,434; Aug. 29.
Washing machine. J. H. Sauter. No. 1,427,552; Aug. 29.
Water-treating apparatus C. H. Spangler. No. 1,427,650; Aug. 29.
Waxer and polisher. H. L. Braun. No. 1,427,574; Aug. 29.
Webs of fabric, Adherently uniting. F. J. Kaufmann and W. N. Marsden. No. 1,427,477; Aug. 29.
Welding machine, Electric seam-. E. Schröder. No. 1,427,231; Aug. 29.
Well-boring device. L. W. Norris. No. 1,427,410; Aug. 29.
Well casings, Apparatus for separating cemented. R. W. Edens and S. E. Clever. No. 1,427,524; Aug. 29.
Wheel: *See*—

Automobile wheel.	Traction wheel.
Disk wheel.	Tractor wheel.
Gear wheel.	Vehicle wheel.
Metal wheel.	

Wheel. J. Ledwinka. No. 1,427,748; Aug. 29.
Wheel. W. F. Muehl. No. 1,427,492; Aug. 29.
Wheel. W. E. Phillips. No. 1,427,320; Aug. 29.
Wheelbarrow. J. Charriat. No. 1,427,262; Aug. 29.
Wheelbarrow handle. H. M. Caswell. No. 1,427,720; Aug. 29.
Wheel block. J. C. Miller. No. 1,427,222; Aug. 29.
Wheel dresser. C. Birghauer. No. 1,427,573; Aug. 29.
Wheels, Demountable rim for vehicle. E. G. Wylam. No. 1,427,670; Aug. 29.
Winding machine. J. C. Anderson. No. 1,427,509; Aug. 29.
Window fastener or latch. F. Fournier. No. 1,427,730; Aug. 29.
Window, Reversible. F. W. Bowler. No. 1,427,088; Aug. 29.
Window sill, Weatherproof. A. C. Langford. No. 1,427,304; Aug. 29.
Wire, Bundled. S. C. Cary. Nos. 1,427,518–9; Aug. 29.
Wire or cable coupling. F. L. Burns and F. J. Tessin. No. 1,427,258; Aug. 29.
Wrench. J. Dobrzanski. No. 1,427,364; Aug. 29.
Wrench. W. R. Kahns. No. 1,427,601; Aug. 29.

ALPHABETICAL LIST OF DESIGNS.

Ash tray and match receptacle, Combination. S. Kronburger. No. 61,416; Aug. 29.
Bedstead end frame. E. L. Rosenburgh. Nos. 61,423–5; Aug. 29.
Book ends, Pair of. J. W. Wunsch. No. 61,430; Aug. 29.
Bottle. R. Eyben. No. 61,409; Aug. 29.
Bottle. G. Rehns. No. 61,422; Aug. 29.
Charm, emblem, badge, button or article of similar nature. C. P. Woodbury. No. 61,429; Aug. 29.
Clock and music box, Combination. W. Maier. No. 61,419; Aug. 29.
Jug. J. L. Klein. No. 61,415; Aug. 29.
Lamp. C. Lyndon. No. 61,418; Aug. 29.
Lamp, Floor. J. Gerchgall. No. 61,412; Aug. 29.
Lamp shade or similar article. W. H. Fulper. No. 61,411; Aug. 29.
Lighting fixture. G. Cawthron. No. 61,408; Aug. 29.
Lighting fixture. F. Yokel. No. 61,431; Aug. 29.
Lighting-fixture arm. H. A. Safion and M. Geringer. No. 61,417; Aug. 29.
Lighting-fixture arm. H. A. Safion and M. Geringer. No. 61,426; Aug. 29.
Lighting fixture, Electric portable. A. Steffen. No. 61,427; Aug. 29.
Money bag. W. M. Przybyla. No. 61,421; Aug. 29.
Paper or similar article. F. Javal. No. 61,413; Aug. 29.
Spoon. E. Fuchs. No. 61,410; Aug. 29.
Statuette. D. T. Moneypenny. No. 61,420; Aug. 29.
Thermometer. A. Keogh. No. 61,414; Aug. 29.
Thermometer. J. E. Ward. No. 61,428; Aug. 29.
Wall covering in raised relief. H. T. Abolin. Nos. 61,405–7; Aug. 29.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Alloy, Tempered gold. Precious Metals Tempering Co. No. 133,103; Aug. 29.
Alloys, Aluminum. A. C. Ryan. No. 135,732; Aug. 29.
Alloys of great hardness, Metallic. Gesellschaft fur Wolfram-Industrie, m. b. H. No. 154,362; Aug. 29.
Aluminum, tool, steel, iron bars and rails, etc. Fiat. No. 148,271; Aug. 29.
Ammonia and benzol. Alabama By-Products Corporation. No. 156,818; Aug. 29.
Ammunition. Gustav Genschow & Co., Aktiengesellschaft. No. 161,876; Aug. 29.
Antiseptic compounds. J. R. Lemaitre. No. 157,319; Aug. 29.
Apples, Fresh. Wenatchee District Co-Operative Association. No. 160,733; Aug. 29.
Asperin, Preparation containing. Asp-a-lax Company. No. 163,428; Aug. 29.
Asphaltum. Standard Oil Company of New York. No. 163,768; Aug. 29.
Automobiles, motor trucks, and motor cycles. Lanchester Motor Co. No. 159,366; Aug. 29.
Automobiles, Side windshields for. Schonberg Manufacturing Company. No. 141,243; Aug. 29.
Automobile steering-wheel lock. Packard Engineering Company. No. 161,644; Aug. 29.
Bags, Mesh. Whiting & Davis Company. No. 161,019; Aug. 29.
Barrels. Hydraulic Steel Company. No. 141,171; Aug. 29.
Baseballs. F. C. Cerrone. No. 162,245; Aug. 29.
Battery jars, panels, covers, and vents, plate separators, etc. American Hard Rubber Company. No. 164,214; Aug. 29.
Beads used as jewelry. N. M. Kirshner. No. 160,065; Aug. 29.
Bed davenports, house and office chairs, rockers, and couches. Justh Manufacturing Company. No. 143,647; Aug. 29.
Bedspreads and pillow shams. Marshall Field & Company. No. 165,943; Aug. 29.
Beer. Christian Moerlein Brewing Co. No. 103,214; Aug. 29.
Beer. Christian Moerlein Brewing Co. No. 103,216; Aug. 29.
Beer. Christian Moerlein Brewing Co. Nos. 103,222–3; Aug. 29.
Belt preservative. Colonial Leather Company. No. 163,615; Aug. 29.
Belting, Canvas. Allied Belting Company. No. 162,279; Aug. 29.
Beverage sold as a soft drink. R. G. Court Co. No. 162,666; Aug. 29.
Beverages sold as soft drinks and sirups for making same. Colucci & Son. No. 158,076; Aug. 29.
Books, more particularly dictionaries. G. & C. Merriam Company. No. 162,836; Aug. 29.
Books, pamphlets, and photographs, Printed. M. B. Dickinson. No. 148,931; Aug. 29.
Books, Series of. Grosset & Dunlap, Inc. No. 161,679; Aug. 29.
Brake lining and clutch facing. Russell Manufacturing Co. No. 122,500; Aug. 29.
Brushes, Household. T. C. Perkins. No. 165,816; Aug. 29.
Brushes, Tooth, face, nail, and bath. A. Saxe. No. 161,386; Aug. 29.
Buckles, Belt. X-L Belt Buckle Co. No. 160,225; Aug. 29.
Candies. Quaker City Chocolate & Confectionery Company. No. 160,973; Aug. 29.
Candy. W. I. Booth. No. 159,401; Aug. 29.
Candy. W. I. Booth. No. 159,405; Aug. 29.
Candy. L. Hirschfeld. No. 147,879; Aug. 29.
Candy. Samoset Chocolates Company. No. 130,440; Aug. 29.
Candy. United Candy Corporation. No. 160,521; Aug. 29.
Candy, Chocolate. John W. Hunn & Co. No. 160,389; Aug. 29.
Canned fruits and vegetables. Ocean Shore Canning Co. No. 160,626; Aug. 29.
Canned pineapple. Henry P. Baldwin, Ltd. No. 157,911; Aug. 29.
Canned vegetables and pork and beans. Silkwood-Pharis Wholesale Grocery Company. No. 160,516; Aug. 29.
Canned vegetables, fruit, and fish, coffee, bread, etc. Federal Grocery Co. No. 154,869; Aug. 29.
Cars and freight containers, Railroad. L. C. L. Co. No. 148,337; Aug. 29.
Cedar wood used in lining closets. A. W. Anderson Corporation. No. 164,625; Aug. 29.
Cement and stucco, Building. National Kellastone Co. No. 155,028; Aug. 29.
Cement, Hardening and waterproofing ingredients for. Vitrifyx Company. Nos. 149,042–3; Aug. 29.
Cigars. A. Martinez. No. 147,304; Aug. 29.
Cigars. Ogburn-Griffin Grocery Co. No. 167,484; Aug. 29.
Cigars, cheroots, and cigarettes. Famo cigar. No. 167,121; Aug. 29.
Cigars, little cigars, cigarettes, and smoking tobacco. Alfred Dunhill of London, Inc. No. 161,770; Aug. 29.
Clocks. Cincinnati Clock & Instrument Co. No. 160,047; Aug. 29.
Clocks, Alarm. Marshall Field & Company. No. 161,535; Aug. 29.
Clothing, Men's, youths', and boys' outer. J. Eisner. No. 152,203; Aug. 29.
Coal. Federal Coal Company. No. 157,762; Aug. 29.
Coals. Huerfano Agency Company. No. 151,540; Aug. 29.
Coats, skirts, dresses, suits, hats, and scarfs, boys' suits, etc., Misses' and women's. Jordan Marsh Company. No. 160,667; Aug. 29.
Coffee. Wason Bros. No. 160,454; Aug. 29.
Coffee, cocoa, spices, and tea. Crocker-Sprague Co. No. 159,647; Aug. 29.
Confection, Candy. F. C. Hitch. No. 148,227; Aug. 29.
Confectionery. Bunte Brothers. Nos. 160,386–8; Aug. 29.
Compasses. Taylor Instrument Companies. Nos. 163,195–202; Aug. 29.
Composition materials for floors, walls, and decorative purposes. T. Hostetter. No. 161,727; Aug. 29.
Corsets. Bay State Corset Company. No. 159,490; Aug. 29.
Corsets, brassières, girdles, belts, etc. American Lady Corset Co. No. 160,911; Aug. 29.
Cotton, cotton and silk, and cotton and artificial-silk fabrics in the piece and made-up draperies, curtains, etc., of said fabrics. Witcombe, McGeachin & Co. No. 160,646; Aug. 29.
Cotton piece goods and piece goods of cotton and silk mixtures. M. Barish. No. 161,577; Aug. 29.
Cough medicine. M. Kade. No. 163,221; Aug. 29.
Cream, toilet soap, and cleanser, Shaving. Mills Brothers Company. No. 161,933; Aug. 29.
Current adjuster, Automatic filament. Radiall Company. No. 163,112; Aug. 29.
Detergent preparations. Kendall Products Corporation. No. 160,498; Aug. 29.
Dish washers and suction cleaners, Electrically-operated. Apex Electrical Manufacturing Co. No. 157,352; Aug. 29.
Dolls, dolls' clothing and bedding. M. B. Dickinson. No. 165,988; Aug. 29.
Drapery and upholstery fabrics, couch covers, and rugs. M. H. Rogers, Inc. No. 131,669; Aug. 29.
Drying machines for drying fruit. G. E. Barozzi. No. 159,551; Aug. 29.
Electric-lighting fixtures and furniture. R. Williamson & Company. No. 155,944; Aug. 29.
Electrical alarm systems. Simplex Alarm Company. No. 146,745; Aug. 29.
Electric vacuum cleaners and parts thereof. Electric Vacuum Cleaner Company. No. 162,540; Aug. 29.
Feed mixtures, Mineral. W. H. Doekhorn. No. 150,006; Aug. 29.
Feeds. H-O Cereal Company. No. 147,754; Aug. 29.
Figs. Fig-Bit Company. No. 160,545; Aug. 29.
Fire-alarm apparatus. M. de Ortigao Burnay. No. 157,019; Aug. 29.
Fireworks. H. Bottieri. No. 162,603; Aug. 29.
Fishing reels, Drag handles for. Enterprise Manufacturing Company. No. 166,666; Aug. 29.
Food for infants and invalids, Carbohydrate. Mead Johnson & Company. No. 160,412; Aug. 29.
Fruit, Fresh citrus. A. M. Klemm & Son. No. 160,613; Aug. 29.
Fruits, Fresh citrus. Groveland Citrus Growers Association. No. 158,310; Aug. 29.
Fruits, Preserved. Beckwith Company. No. 160,391; Aug. 29.
Fruits, Preserved. J. L. Reese Inc. No. 160,830; Aug. 29.
Game set. Pung Chow Company. No. 165,559; Aug. 29.
Game set. Pung Chow Company. No. 165,561; Aug. 29.
Gingham cloth in the piece. Planters and Merchants Mills. No. 159,429; Aug. 29.
Gold, silver, platinum, or a combination of these metals, Articles made of. McChesney Company. No. 164,179; Aug. 29.
Golf games and putting devices. F. S. Smith. No. 167,586; Aug. 29.
Grapes, Fresh. E. Y. Foley. Nos. 160,397–8; Aug. 29.
Hair nets. S. Glemby's Sons Co. No. 164,418; Aug. 29.
Hair nets. J. Zabludoff. No. 159,396; Aug. 29.
Hammer, Portable riveting. Dayton Pneumatic Tool Company. No. 158,824; Aug. 29.
Hogs and marking the ears of animals, Instruments for slitting the noses of. Estate of A. C. Decker. Nos. 157,304–5; Aug. 29.
Hydrometers. Taylor Instrument Companies. No. 163,840; Aug. 29.
Hydrometers. Taylor Instrument Companies. No. 163,843; Aug. 29.
Ink, Stenciling and marking. Binney & Smith Company. No. 150,652; Aug. 29.

Jackets, undercoats, shirts, etc., Cardigan. T. H. Downing & Co. No. 148,134; Aug. 29.
Jewelry. Shiman Bros. & Co. No. 162,776; Aug. 29.
Jewelry, not including watches. Heidell & Trow Company. No. 164,641; Aug. 29.
Lamp chimneys, globes, shades, and reflectors, Glass. Gill Brothers Company. No. 161,183; Aug. 29.
Lamp chimneys and reservoirs. Standard Oil Company of New York. No. 163,416; Aug. 29.
Lamps, Electric automobile. American Auto Lamp Co. No. 151,527; Aug. 29.
Liquid preparation for cleaning furniture, automobiles, etc. C. B. Wenner. No. 166,158; Aug. 29.
Lotion, Face. E. W. Watkins. No. 155,423; Aug. 29.
Lotion, Skin. E. L. Patch Company. No. 163,535; Aug. 29.
Lumber, shingles, and wood flooring. Worcester Lumber Company. No. 162,862; Aug. 29.
Magazine, Cover of its educational and scientific monthly. National Organization for Public Health Nursing. No. 163,891; Aug. 29.
Mascot. Novelty in the nature of a. P. Jones. No. 165,751; Aug. 29.
Mattresses, pillows, bedsteads, sleeping couches, and day beds. C. S. Steiner. No. 165,463; Aug. 29.
Mayonnaise and tartar sauce dressing. R. H. Johnson & Co. No. 160,947; Aug. 29.
Medicinal preparation for colds, grippe, and catarrh. J. G. Blakeney. No. 163,568; Aug. 29.
Medicinal preparations for coughs, colds, etc. Dr. Bell Medicine Company. No. 139,247; Aug. 29.
Metal cleansers and polishes. Long Island Polish Co. No. 163,638; Aug. 29
Motors and parts thereof, Internal-combustion. Chadick, DeLamater Corporation. No. 159,695; Aug. 29.
Motors, dynamos, and generators, etc., Electric. Mechanical Appliance Company. No. 134,836; Aug. 29.
Mushrooms in oil, fruits, and vegetables, jams, cheese, etc. Podesta Import Company. No. 152,584; Aug. 29.
Noodles, macaroni, and spaghetti. Pfaffmann Egg Noodle Co. No. 160,632; Aug. 29.
Oilcloth—viz. wall cloth. T. R. Goodlatte & Sons, Inc. No. 165,540; Aug. 29.
Oil preparation for cleansing and polishing metal. F. J. Stearns. No. 137,188; Aug. 29.
Paint for coating roofs, elastic paint. Sherwin-Williams Company. No. 147,132; Aug. 29.
Pamphlets, magazines, books, leaflets, and advertising matter. Co-Operative League of The United States of America, Assoc. No. 163,742; Aug. 29.
Pants, shirts, socks, and mackinaws. Jones, Woodbury & Smith. No. 158,778; Aug. 29.
Pearls and strings of pearls, Single. M. Dottenheim. No. 122,881; Aug. 29.
Perfume, toilet water, sachet, talcum, and face powders. Wm. H. Brown & Bro. Co. No. 163,374; Aug. 29.
Periodicals, Monthly. M. E. Hall. No. 165,496; Aug. 29.
Periodical, Monthly. Management Magazines, Inc. No. 161,854; Aug. 29.
Pipe linings and coverings. C. W. Allison. No. 159,829; Aug. 29.
Piston rings. Burd High Compression Ring Company. No. 151,779; Aug. 29.
Play boxes, pastime set for girls, rainbow and bubble sets, etc. Fairy Gift Company. No. 149,178; Aug. 29.
Pliers, glass cutters, auger bits, etc. Smith & Hemenway Company. No. 157,047; Aug. 29.
Polishes and waxes, etc. Société Anonyme des Produits du Lion Noir. No. 146,088; Aug. 29.
Polishing cloths. Dengel & McCormack. No. 163,862; Aug. 29.
Powder for cleaning white shoes. C. V. Wood. No. 163,023; Aug. 29.
Powder puffs. Penn Drug Spec. Co. No. 164,006; Aug. 29.
Precious-metal or plated articles. Rochester Stamping Company. No. 159,617; Aug. 29.
Preparation for neuritis, sciatica, neuralgia, rheumatism, etc. Tysmol Co. No. 162,074; Aug. 29.
Publication. Psycho-Occult Institute of Business Success. No. 158,091; Aug. 29.
Publication. Monthly. F. D. Adams. No. 164,623; Aug. 29.
Publication, Monthly. F. B. Vogel. No. 164,851; Aug. 29.
Puddings, Fruit and other. Campbell Manufacturing Co. No. 147,553; Aug. 29.
Pumps, Liquid measuring and dispensing. Guarantee Liquid Measure Company. No. 164,756; Aug. 29.
Pyjamas and night robes. T. J. Maxwell & Co. Nos. 149,011–12; Aug. 29.
Radio and wireless telephone equipment. Audiola Radio Company. No. 163,304; Aug. 29.
Radio receiving sets, variometers, variocouplers, etc. Ra-Tone Electric Co. No. 164,454; Aug. 29.
Razor-strop dressing in powdered form. E. E. Hall. No. 165,018; Aug. 29.
Reports, official organ, etc., Annual and mid-year. Silk Association of America. No. 163,474; Aug. 29.
Resisters, lightning arresters, and fuses for electrical purposes. High Tension Supplies Company. No. 148,841; Aug. 29.
Roofing, Mineral-surfaced roll. Barrett Company. No. 160,229; Aug. 29.
Roofings, Composition. Victory Products, Inc. No. 152,291; Aug. 29.
Root-beer extracts. S. L. Goldman. No. 152,211; Aug. 29.
Rouge and face powder. V. Vivaudou, Inc. No. 147,853; Aug. 29.
Rubber combs. Seamless Rubber Company. No. 161,795; Aug. 29.
Rubber heels. Pletzuch Surgical Wonder Arch Guide Heel Company. No. 143,996; Aug. 29.
Sandwich fillings. Hanson Manufacturing Company. No. 160,941; Aug. 29.
Sheetings. Belton Mills. No. 158,754; Aug. 29.
Shirts, overcoats, and mackinaw coats, men's pants, etc., Men's and boys' work. Rosenbaum Brothers. No. 160,901; Aug. 29.
Shoes, Leather, canvas, rubber, and fabric. L. R. Carley. No. 160,590; Aug. 29.
Shoes, Men's and children's. Davies Shoe Manufacturing Co. No. 147,866; Aug. 29.
Signs, Interior illuminating electric. Lackner Company. No. 164,812; Aug. 29.
Silk, linen, woolen, and cotton piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 165,865; Aug. 29.
Silk piece goods. J. W. Gilchrist. No. 163,927; Aug. 29.
Silk piece goods. H. R. Mallinson & Co. No. 145,224; Aug. 29.
Silver hollow ware. Bernard Rice's Sons, Inc. No. 161,750; Aug. 29.
Silver-plated flat and hollow tableware and silver-plated ware for soda-water use. Cecil Manufacturing Co. No. 162,285; Aug. 29.
Soap. Barclay & Co. No. 164,534; Aug. 29.
Soap. B. M. Ferguson. No. 164,159; Aug. 29.
Soap. Jenkins & Wagner. No. 153,847; Aug. 29.
Soap. Palmolive Company. No. 162,506; Aug. 29.
Soap. Van Camp Packing Company. No. 161,601; Aug. 29.
Soap, Toilet. Yardley & Co. No. 162,962; Aug. 29.
Soap flakes. Lysander Kemp & Sons Inc. No. 164,171; Aug. 29.
Soaps. M. Sullivan. No. 165,769; Aug. 29.
Soaps. M. Sullivan. Nos. 165,771–2; Aug. 29.
Spark plugs. D. Swan. No. 163,358; Aug. 29.
Spark timers for internal-combustion engines. A. Kaufman. No. 161,363; Aug. 29.
Spectacles. Strong-Kennard & Nutt Company. No. 163,184; Aug. 29.
Sprayers, pumps, force pumps, atomizers and powder dusters. D. B. Smith. No. 145,974; Aug. 29.
Springs for locomotives, locomotive tenders, and cars Standard Steel Works Company. No. 146,982; Aug. 29.
Steel. Electric Alloy Steel Company. Nos. 147,232–5; Aug. 29.
Store display counters, cases, and cabinets. F. A. Mallander. No. 162,495; Aug. 29.
Strings for violins, guitars, etc. L. C. Schermerhorn. No. 150,208; Aug. 29.
Tea, coffee, flavoring extracts for food, cocoa, etc. A. J. Donaldson. No. 140,169; Aug. 29.
Thermocouple stems. Taylor Instrument Companies. No. 163,833; Aug. 29.
Thermometers. Taylor Instrument Companies. No. 163,835; Aug. 29.
Tires and rubber inner tubes, Rubber vehicle. Merritt Rubber Co. No. 149,594; Aug. 29.
Tires, Rubber automobile. Chicago City Rubber Works. Nos. 157,884–6; Aug. 29.
Tires, Rubber patches for inner tubes for pneumatic. H. Kerans. No. 155,563; Aug. 29.
Tires, steel-tired wheels, and solid rolled-steel wheels, Steel. Standard Steel Works Company. No. 146,983; Aug. 29.
Tonic and nervine. W. J. Davies. No. 163,438; Aug. 29.
Toy dogs, Fabric. P. F. Volland Co. No. 167,341; Aug. 29.
Toy drawing instrument. Osborn-Crew Manufacturing Company. No. 167,189; Aug. 29.
Underwear, Women's and misses'. E. G. Munzer. No. 159,716; Aug. 29.
Varnish. McDougall-Butler Co. No. 152,852; Aug. 29.
Vegetables, Fresh. T. H. McLaughlin. No. 160,957; Aug. 29.
Veneer panels for use in manufacture of furniture, etc. Batesville Lumber & Veneer Co. No. 152,780; Aug. 29.
Vinegar. Springdale Vinegar Company. No. 160,640; Aug. 29.
Washing compound. Frankford Davies and Company. No. 165,585; Aug. 29.
Washing compound. A. J. Stone. No. 165,510; Aug. 29.
Washing machines. Conlon Electric Washer Co. No. 166,983; Aug. 29.
Watch chains. Hickok Manufacturing Company. No. 163,931; Aug. 29.
Water softener. Barrett & Barrett. No. 163,376; Aug. 29.
Waterproof and weatherproof roofing. Paraffine Companies, Inc. No. 160,630; Aug. 29.
Waterproof cloth. N. Levin. No. 145,696; Aug. 29.
Water-purifying machinery and parts thereof. United States Ozone Company. No. 145,727; Aug. 29.
Wireless and electrical equipment. Teleradio Engineering Corporation. No. 161,016; Aug. 29.
Woolen and wool-mixture fabrics. L. Surut. No. 163,597; Aug. 29.
Writing fluid. E. M. Raignel, Incorporated. No. 164,076; Aug. 29.

ALPHABETICAL LIST OF LABELS.

"Advance Cork Feltbak." (For Cartons Containing Transmission Linings.) Advance Automobile Accessories Corp. No. 24,902; Aug. 29.
"Audry Hair Net." (For Hair Nets.) S. Glemby's Sons Co. Inc. No. 24,916; Aug. 29.
"B. Paul's Henna." (For Hair Dye.) P. Balme. No. 24,904; Aug. 29.
"Baron's Sulphiron." (For Bottles and Packages of Mineralized Water.) P. L. Barron. No. 24,906; Aug. 29.
"Barjella." (For Medicinal Beautifier Salve for External Use.) Smith-Mills Manufacturing Company. No. 24,973; Aug. 29.
"Brant Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,964; Aug. 29.
"Brownie." (For Bread.) Swander Baking Company. No. 24,975; Aug. 29.
"C. B. High Grade Smoking Mixture." (For Smoking Tobacco.) Lovell-Buffington Tobacco Co. No. 24,936; Aug. 29.
"C. O. Wells Country Club Brand." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,940; Aug. 29.
"Calcident." (For Tooth Paste.) James A. Hearn & Son, Inc. No. 24,919; Aug. 29.
"California Citrus Soap Powder." (For Soap Powder and Washing Powder.) Citrus Soap Company of California. No. 24,910; Aug. 29.
"Chalet Egg Milk Chocolate." (For Packages of Chocolate.) Chalet Chocolate Corporation. No. 24,909; Aug. 29.
"Champagne." (For Cantaloupes.) S. Mellarg. No. 24,938; Aug. 29.
"Cherries in Cordial." (For Boxes Containing Chocolate-Covered Cherries in Cordial.) Milwaukee Paper Box Company. No. 24,943; Aug. 29.
"Climax." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 24,941; Aug. 29.
"Crown Coloring & Chemical Co." (For Liquid Paints for Incandescent Lamps.) M. Blumberg. No. 24,907; Aug. 29.
"Dandy Handy." (For Automobile Antiskid Chains and Containers Therefor.) S. A. Akins. No. 24,903; Aug. 29.
"Don Domo." (For Boxes and Cans Containing Cigars.) Silver Eagle Cigar Factory. No. 24,972; Aug. 29.
"Dr. Price's Pure Ground Black Pepper." (For Containers for Black Pepper.) Price Flavoring Extract Company. No. 24,962; Aug. 29.
"Dr. Price's Pure Paprika." (For Containers for Paprika.) Price Flavoring Extract Company. No. 24,961; Aug. 29.
"Duck Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,965; Aug. 29.
"Fralinger's Original Salt Water Taffy." (For Boxes Containing Salt-Water Taffy.) Theo. J. Lapres, Inc. No. 24,931; Aug. 29.
"Freckles." (For Popped-Corn and Nut Confection.) Louisville Coffee Company. No. 24,935; Aug. 29.
"Freez O Pop." (For Confections as a Wrapper.) Far Rockaway Candy Company. No. 24,913; Aug. 29.
"Goose Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,966; Aug. 29.
"Guernsey Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) Pleasant Valley Farms and Morey Condenser Company. No. 24,959; Aug. 29.
"H & H Butter-Kist Pop Corn." (For Pop-Corn Cartons.) Holcomb & Hoke Manufacturing Co. No. 24,923; Aug. 29.
"Heavy Duck Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,968; Aug. 29.
"Heron Crepe Tissue." (For Toilet-Paper Rolls.) Linton and Company. No. 24,933; Aug. 29.
"Hollywood." (For Mayonnaise.) A. G. Kadlec. No. 24,927; Aug. 29.
"Ka-Zu." (For Extracts, Sirups, and Beverages.) S. M. Hoyo. No. 24,925; Aug. 29.
"Kaempfer's Canary Highball." (For a Bird Food and Tonic.) Kaempfer's Incorporated. No. 24,928; Aug. 29.
"Kern's Sugar Cured Sliced Bacon." (For Sliced Bacon.) George Kern, Inc. No. 24,929; Aug. 29.
"Lady Wear." (For Hair Nets.) Schneider, Battinus & Simon. No. 24,969; Aug. 29.
"Lapres' Midget Salt Water Gems." (For Boxes Containing Miniature Salt-Water Taffy.) Theo. J. Lapres, Inc. No. 24,932; Aug. 29.
"Lola Real Hair Net." (For Hair Nets.) S. Glemby's Sons Co. Inc. No. 24,915; Aug. 29.
"Mater Seal 2 in 1." (For Auto Tube Patch Outfits.) Fort Harrison Sales Co. No. 24,914; Aug. 29.
"Melto." (For Packages Containing Reducing Cream.) B. K. Hartzell. No. 24,918; Aug. 29.
"Mi-Lady A Real Hair Net." (For Hair Nets.) Morris, Mann & Reilly, Inc. Nos. 24,945–56; Aug. 29.
"Myro." (For Hair Nets.) S. Glemby's Sons Co. Inc. No. 24,917; Aug. 29.
"Orange Blossom Marmalade." (For Orange Marmalade.) Lake Yale Orange Company. No. 24,930; Aug. 29.
"Owl Brand Malt Syrup." (For Glass Bottles, Cans, Tins, and Any Other Receptacles Containing Said Malt Sirup.) A. Hollis. No. 24,924; Aug. 29.
"Palmas Altas Golden Sheaf." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,942; Aug. 29.
"Petrolagar." (For a Remedy for Constipation.) Deshell Laboratories Inc. No. 24,912; Aug. 29.
"Pleasant Valley Farms' Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) Pleasant Valley Farms and Morey Condensery Company. No. 24,960; Aug. 29.
"Pure Gold Brand Creamery Butter." (For Cartons Serving as a Container for Butter.) Campbell Paper Box Company. No. 24,908; Aug. 29.
"Scottissue Towels." (For Paper Towels.) Scott Paper Company. No. 24,970; Aug. 29.
"Scottissue Towel Holder No. 03." (For Paper Towels.) Scott Paper Company. No. 24,971; Aug. 29.
"Squirrel Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,967; Aug. 29.
"Sun Tex." (For Outdoor Apparel.) H. Director. No. 24,926; Aug. 29.
"Suwannee." (For Sirup.) L. M. Mizell. No. 24,944; Aug. 29.
"$1000.00 Guaranteed Contents." (For Carton for Inclosing a Remedy for the Eradication of Head Lice, Body Lice, Crab Lice, and Other Body Vermin.) B. Heller & Company. No. 24,920; Aug. 29.
"$1000.00 Guaranteed Ozo Waste Pipe Opener." (For Receptacle Containing $1000.00 Guaranteed Ozo Waste-Pipe Opener, a Preparation for Opening Stopped-Up Pipes.) B. Heller & Company. No. 24,922; Aug. 29.
"$1000.00 Guaranteed Silver Polish." (For Cans Containing $1000.00 Guaranteed Silver Polish, a Dry-Powder Polish.) B. Heller & Company. No. 24,921; Aug. 29.
"Tilt." (For a Game for Children.) E. Marsh. No. 24,937; Aug. 29.
"Tootsie Peppermint." (For Candy Mints Flavored with Peppermint.) Sweets Company of America, Inc. No. 24,977; Aug. 29.
"Tootsie Wintergreen." (For Candy Mints with Wintergreen Flavor.) Sweets Company of America, Inc. No. 24,976; Aug. 29.
"Trilby." (For Boxes and Cans Containing Cigars. Reading Cigar Co. No. 24,963; Aug. 29.
"True Shape." (For Hosiery for Men.) True Shape Hosiery Co. No. 24,978; Aug. 29.
"True Shape." (For Hosiery for Ladies.) True Shape Hosiery Co. No. 24,979; Aug. 29.
"True Shape." (For Hosiery for Men.) True Shape Hosiery Co. No. 24,980; Aug. 29.
"True Shape." (For Hosiery for Ladies.) True Shape Hosiery Co. No. 24,981; Aug. 29.
"Vegetine." (For a Stomach Relief Remedy.) E. E. Steiner. No. 24,974; Aug. 29.
"Victoria Brown." (For Calf Leather.) Barnet Leather Co. Inc. No. 24,905; Aug. 29.
"Visible." (For Canned Apricots.) George Wills and Sons, Ltd. No. 24,983; Aug. 29.
"Vitamin." (For Whole-Wheat Flour.) New Richmond Roller Mills Co. No. 24,957; Aug. 29.
"Weatherly." (For Ice Cream.) Crystal Ice Hold Storage Co. No. 24,911; Aug. 29.
"White Sulphur Springs Water." (For Mineral Waters.) White Sulphur Springs, Inc. No. 24,982; Aug. 29.
"Wisconsin Farms' Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) Pleasant Valley Farms and Morey Condensery Company. No. 24,958; Aug. 29.
"Yap Crepe Tissue." (For Toilet-Paper Rolls.) Linton and Company. No. 24,934; Aug. 29.
"Yellow Cab." (For Cigars.) McKee-Marks Cigar Co. No. 24,939; Aug. 29.

ALPHABETICAL LIST OF PRINTS.

"A Haynes 75 for every motoring travel requirements." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 6,281; Aug. 29.

"A Man's Story To Men!" (For Advertising Purposes for Suspensories.) S. H. Wetmore Company. No. 6,292; Aug. 29.

"Always Charming!" (For Advertising Purposes for Coconut-Oil Shampoo.) R. L. Watkins Company. No. 6,291; Aug. 29.

"'Beauty Wins.'" (For Advertising Purposes for Coconut-Oil Shampoo.) R. L. Watkins Company. No. 6,290; Aug. 29.

"Channell Fence Company, Inc." (For Advertising Purposes for a Combination Wood and Wire Fence.) Channell Fence Company. No. 6,273; Aug. 29.

"Fyredrop." (For Advertising Purposes for Gasoline.) W. H. Barber Company. No. 6,272; Aug. 29.

"Great Loaf." (For Advertising Purposes for Bread.) Hatch Advertising and Sales Service. No. 6,280; Aug. 29.

"Handy Hanson." (For Advertising Purposes for Scales.) Hanson Brothers Scale Company. No. 6,279; Aug. 29.

"Hearn Baby Castile." (For Advertising Purposes for Soap.) James A. Hearn & Son, Inc. No. 6,282; Aug. 29.

"Kept Clean With Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) N. K. Fairbank Company. Nos. 6,277–8; Aug. 29.

"Moments Which Count." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,286; Aug. 29.

"Peth's Candy Bars." (For Advertising Purposes for Candy Bars.) Milwaukee Paper Box Company. No. 6,283; Aug. 29.

"Plumb Double Life." (For Advertising Purposes for Files.) Fayette R. Plumb, Inc. No. 6,288; Aug. 29.

"'Pointex.'" (For Advertising Purposes for Hosiery.) Emery & Beers Company. No. 6,275; Aug. 29.

"Standing Fisherman." (For Advertising Purposes for Fishing Tackle.) Enterprise Manufacturing Company. No. 6,276; Aug. 29.

"Stays Neat." (For Advertising Purposes for Mattresses.) L. 1. Cohn. No. 6,274; Aug. 29.

"Teckemeyer's Menthol Hoarhound." (For Advertising Purposes for Menthol Horehound Drops.) Milwaukee Paper Box Company. No. 6,284; Aug. 29.

"The Complete Dormant Spray." (For Advertising Purposes for Scalecide for the Protection of Trees Against Insects and Fungous Growths.) B. G. Pratt Company. No. 6,289; Aug. 29.

"Why fade at 30?" (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,287; Aug. 29.

"Would your husband marry you again?" (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,285; Aug 29.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Accordions. Matth Hohner Actien-Gesellschaft. No. 158,258; Aug. 29.

Alcohol, Massage. Langley & Michaels Co. No. 158,245; Aug. 29.

Alcohol, Rubbing. Langley & Michaels Co. No. 158,246; Aug. 29.

Almond meal, foot, shampoo, and face powders, hair tonic, etc. E. Hallman. No. 158,228; Aug. 29.

Animal shoes. Bryden Horse Shoe Company. No. 21,866; renewed Oct. 18, 1922.

Anticorrosive chemical compositions or compounds. Sozol Limited. No. 158,304; Aug. 29.

Antileak compound. Thomas Company. No. 158,310; Aug. 29.

Bath powder, Foot-. A. L. Porter. No. 158,284; Aug. 29.

Bathroom shelving, cup racks, soap racks, etc. Superior Brass N. C. No. 158,305; Aug. 29.

Beverages, Nonalcoholic. Ohio Valley Bottling Works. No. 158,273; Aug. 29.

Beverages sold as soft drinks and sirup for making the same. Card-Martin Co. No. 158,336; Aug. 29.

Binocular optical instruments. A. Perrin. No. 158,281; Aug. 29.

Blankets, Woolen. I. Ginzkey-Maffersdorf. No. 158,222; Aug. 29.

Boiler chemicals. Bird-Archer Company. No. 158,184; Aug. 29.

Bolts, track, frog, and switch bolts, and nuts, Stay. Flannery Bolt Company. No. 158,342; Aug. 29.

Booklet or house organ. P. H. McCabe. No. 158,351; Aug. 29.

Brushes, mops, and dusters, Certain. B. E. Viner. No. 158,368; Aug. 29.

Calendars. Defiance Manufacturing Company. No. 158,338; Aug. 29.

Candy. R. Romero. No. 158,287; Aug. 29.

Candy. Webers. No. 158,369; Aug. 29.

Canned fruits and vegetables. F. B. Neuhoff. No. 158,357; Aug. 29.

Canned fruits and vegetables, salad oil, cocoa, shortening. Felix Spatola & Sons. No. 158,341; Aug. 29.

Canned vegetables. W. R. Roach & Co. No. 158,288; Aug. 29.

Canned vegetables. Sears and Nichols Canning Co. No. 158,298; Aug. 29.

Carbon remover. T. S. Witherspoon. No. 158,322; Aug. 29.

Cards, Playing. A. Dougherty. No. 22,010; renewed Nov. 22, 1922.

Cases and bags. Knickerbocker Case Company. No. 158,350; Aug. 29.

Chains, Antiskid. Bear Manufacturing Co. No. 158,175; Aug. 29.

Chemical preparation. Abbott Hardware Co. No. 158,167; Aug. 29.

Chocolate bars. Rueckheim Bros. & Eckstein. No. 158,290; Aug. 29.

Cigars. Tuckett Tobacco Company. No. 158,365; Aug. 29.

Cigars, cigarettes, tobacco. Tuckett Tobacco Company. No. 158,366; Aug. 29.

Closet seats and covers, Water-. J. L. Mott Company. No. 158,267; Aug. 29.

Compound for the treatment of barbers' itch, poison ivy, dogwood-poison, etc. G. W. Terry. No. 158,308; Aug. 29.

Constipation pencils. F. E. Erickson. No. 158,212; Aug. 29.

Cream, Face. Scientific Research Laboratories. No. 158,296; Aug. 29.

Creams and lotions, Face. C. W. Swearingen. No. 158,306; Aug. 29.

Damask in the piece, Mercerized cotton. Pauline Mills, Inc. Nos. 138,360–1; Aug. 29.

Dentifrice. North American Hygienic Company. No. 158,271; Aug. 29.

Depilatories. W. J. Ferguson. No. 158,215; Aug. 29.

Depilatories. Odorono Company. No. 158,272; Aug. 29.

Disinfectant. H. Hague. No. 158,227; Aug. 29.

Dolls, Cut-out. P. Reeves. No. 158,362; Aug. 29.

Dyes. George D. Wright Corporation. No. 158,324; Aug. 29.

Electrical apparatus. Universal Battery Company. No. 158,311; Aug. 29.

Electrolyte compound. Harris-Stephenson. No. 158,230; Aug. 29.

Engines, Gasoline and hand-car. Fairmont Gas Engine & Railway Motor Car Co. No. 158,214; Aug. 29.

Envelopes and making paper boxes, Machinery for pasting and folding. Lester & Wasley. No. 22,074; renewed Nov. 29, 1922.

Envelopes, file folders, file pockets. J. W. Fitzgerald. No. 158,217; Aug. 29.

Eyeglasses and spectacles for athletic purposes. M. H. Harris. No. 158,229; Aug. 29.

Eyeglasses, spectacles, and goggles. Gotham Optical Co. No. 158,223; Aug. 29.

Finger rings, brooches, hairpins, lavallières, and scarf pins. D. D. Brokaw & Son. No. 158,193; Aug. 29.

Friction tape and splicing compound. Parr Electric Co. No. 158,359; Aug. 29.

Fudge. Snider & Cazel. No. 158,302; Aug. 29.

Furniture, Certain. L. R. Gans. No. 158,345; Aug. 29.

Gears. W. H. Diefendorf. No. 158,339; Aug. 25.

Germicides and antiseptics. Parke, Davis & Company. No. 158,277; Aug. 29.

Gramophone needles. H. J. Wenglein's Norica- & Herold-Werke Nurnberg-Schwabacher Nadelfabriken G. m. b. H. No. 158,319; Aug. 29.

Hair grease, hair oil, and shampoo. R. Chinn. No. 158,200; Aug. 29.

Hair, Pomatum dressing for the. Pannett & Neden. No. 158,276; Aug. 29.

Hair restorer. M. Burnham. No. 158,197; Aug. 29.

Hair shampoo. A. A. Krueger. No. 158,243; Aug. 29.

Hair tonic. Quinorient Company. No. 158,285; Aug. 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Hair tonics, perfumes, etc. R. Julian. No. 158,239; Aug. 29.

Hair tonics, shampoo, hair pomade. M. Miller. No. 158,355; Aug. 29.

Hams and bacon. Imperial Packing Company. No. 19,838; renewed July 7, 1921.

Hinges, particularly windshield hinges. City Brass Works Co. No. 158,201; Aug. 29.

Ice cream. L. J. Christopher Company. No. 158,337; Aug. 29.

Ink, Writing. Crocker Pen Company. No. 158,203; Aug. 29.

Inks, Printing. Sigmund Ullman Co. No. 158,300; Aug. 29.

Inks, Writing and Printing. J. C. Swearingen Ink Co. No. 158,307; Aug. 29.

Iron and steel manufacture, Articles of. Sandvikens Jernverks Aktiebolag. Nos. 158,293–4; Aug. 29.

Jelly powder. Arcadia Food Company. No. 158,329; Aug. 29.

Jewelry. R. Bengert. No. 158,178; Aug. 29.

Jewelry and precious-metal ware. Alphonse W. Weiner, Inc. No. 158,318; Aug. 29.

Jewelry, Certain. Joseph E. Miller, Inc. No. 158,264; Aug. 29.

Lamps, Electric. Marshall Field & Company. No. 158,352; Aug. 29.

Lard and its substitutes. W. J. Wilcox Lard Refining Company. Nos. 21,438–41; renewed July 12, 1922.

Lard and its substitutes. W. J. Wilcox Lard and Refinery Company. No. 21,603; renewed Aug. 9, 1922.

Lard and its substitutes. W. J. Wilcox Lard and Refining Company. No. 21,675; renewed Aug. 23, 1922.

Lard and its substitutes. W. J. Wilcox Lard and Refining Company. No. 21,980; renewed Nov. 15, 1922.

Laundry appliances, Certain. Little Giant Company. No. 158,250; Aug. 29.

Laxative. C. W. Redpath. No. 158,286; Aug. 29.

Laxatives. J. H. McKeon. No. 158,255; Aug. 29.

Lead, White. Jacobs & McCafferty. No. 22,066; renewed Nov. 29, 1922.

Liniment and ointment. F. P. Foltz. No. 22,121; renewed Dec. 6, 1922.

Liniment for rheumatism. E. E. Davis. No. 158,204; Aug. 29.

Linoleum, linoleum cork carpet, and certain floor coverings. Armstrong Cork Company. No. 158,330; Aug. 29.

Liquid for dissolving and removing gallstones. Vital Sanando Co. No. 158,315; Aug. 29.

Liquid for liver, stomach, and bowel troubles. Vital Sanando Co. No. 158,316; Aug. 29.

Locks for automobiles. Hershey Manufacturing Company. No. 158,231; Aug. 29.

Locomotives, steam engines, etc., Certain. J. Mundy. No. 158,269; Aug. 29.

Machinery, Certain. Allis-Chalmers Manufacturing Company. No. 158,327; Aug. 29.

Malt sirup used as a food product. L. C. Robinson. No. 158,289; Aug. 29.

Meats and lard, Smoked. Memphis Packing Corporation. No. 158,353; Aug. 29.

Medals and badges. Dieges & Clust. No. 158,206; Aug. 29.

Medicinal and toilet preparations, Certain. V. F. Bruknes. No. 158,196; Aug. 29.

Medicinal and toilet preparations, Certain. Leon Maurice Laboratories. No. 158,259; Aug. 29.

Medicinal, pharmaceutical, and toilet preparations. I. B. Jefferson. No. 158,236; Aug. 29.

Medicinal preparation, Certain. M. J. Hansen. No. 158,349; Aug. 29.

Medicinal preparation for rheumatism, etc. Delson Chemical Co. No. 158,205; Aug. 29.

Medicinal preparation for the treatment of colds, influenza, and la grippe. W. E. Shuit, Incorporated. No. 158,299; Aug. 29.

Medicinal preparation for use as a heart tonic or stimulant. Eli Lilly & Company. No. 158,211; Aug. 29.

Medicinal preparations. Winthrop Chemical Company. No. 158,321; Aug. 29.

Medicinal preparations. Woman's Mutual Benefit Company. No. 158,323; Aug. 29.

Medicine for consumption, stomach poisoning, and for a general medicinal tonic. J. P. Biedka. No. 158,182; Aug. 29.

Medicine, Blood and asthma. Indian Remedy Company. No. 158,233; Aug. 29.

Medicines for colds and analogous diseases. Edgar Chemical Company. No. 158,209; Aug. 29.

Medicines for the treatment of tuberculosis. R. Milton Lewis Company. No. 158,248; Aug. 29.

Metal plates and sheets, Ferrous. Follansbee Brothers Company. Nos. 158,343–4; Aug. 29.

Mops. W. C. Palmer. No. 158,358; Aug. 29.

Mortise and rim locks, Steel. Société P. & A. Picard. No. 158,303; Aug. 29.

Motor cycles. Ner-A-Car Corporation. No. 158,270; Aug. 29.

Mouth wash. Zincloros Chemical Company: No. 158,325; Aug. 29.

Mouth washes, tooth powder and paste. H. H. Mentz, D. D. S. No. 158,354; Aug. 29.

Music rolls or sheets, Perforated. Filmusic Company. No. 158,216; Aug. 29.

Musical instruments and parts thereof, Certain. J. Schwartz. No. 158,295; Aug. 29.

Musical instruments and supplies, Certain. Ludwig Hupfeld Aktiengesellschaft. No. 158,253; Aug. 29.

Nail-polish liquid, powder, and cake. Magic Nail Polish Co. No. 158,256; Aug. 29.

Necklaces, Imitation pearl. L. N. Marx. No. 158,257; Aug. 29.

Numbering machines. American Numbering Machine Company. No. 158,328; Aug. 29.

Numbering machines. Bates Manufacturing Company. No. 158,174; Aug. 29.

Nuts and nut lunch, Salted. United Fig & Date Co. No. 158,367; Aug. 29.

Nuts, figs, dates, and currants. J. D. Antonopulos. No. 158,170; Aug. 29.

Oil, Olive. V. Langmann, Inc. No. 158,247; Aug. 29.

Ointment, eye and pile salves, Carbolic. Van Vleet-Mansfield Drug Co. No. 158,312; Aug. 29.

Ointment for the treatment of certain named diseases. G. Laabs. No. 158,244; Aug. 29.

Ophthalmic mountings and parts thereof. Albex Optical Co. No. 158,168; Aug. 29.

Painters' small. W. C. Estes. No. 21,887; renewed Oct. 25, 1922.

Pearls. M. Dottenheim. Nos. 158,207–8; Aug. 29.

Pearls, Imitation. May Department Stores Company. No. 158,260; Aug. 29.

Pearls, necklaces, bracelets, etc., Artificial. C. A. Keene. Nos. 158,241–2; Aug. 29.

Peppermint astringent. F. H. Green. No. 158,225; Aug. 29.

Perfume. Balba Corporation of America. No. 158,173; Aug. 29.

Perfume extracts, and toilet waters. E. L. Mittelstaedt. No. 158,265; Aug. 29.

Perfumes sold as extracts and lotions. A. Bourjois & Co. No. 158,189; Aug. 29.

Perfumery. A. Jourion. No. 158,238; Aug. 29.

Phonograph instruments and records. Operaphone Co. No. 158,274; Aug. 29.

Phonograph-record albums. A. F. Kasnick. No. 158,240; Aug. 29.

Phonograph reproducers, Diaphragms for. Jewell Phonoparts Company. No. 158,237; Aug. 29.

Phonographs. H. L. Bullinger. No. 158,183; Aug. 29.

Phonographs. Melodia Phonograph Co. No. 158,261; Aug. 29.

Photography, Chemicals used in. Bromograph A.-G., Mannheim. Nos. 158,194–5; Aug. 29.

Pianos, player pianos, phonographs. Weser Bros. Inc. No. 158,320; Aug. 29.

Pictures, Motion. Arrow Film Corporation. No. 158,171; Aug. 29.

Pile fabrics in the piece. Salt's Textile Manufacturing Company. No. 158,291; Aug. 29.

Plumbing and hardware articles, Certain. B. B. Specialty Co. No. 158,363; Aug. 29.

Poultices and plasters for the treatment of boils, burns, etc. O. F. Louis. No. 158,251; Aug. 29.

Powder, Tooth. Scientific Research Laboratories. No. 158,297; Aug. 29.

Preparation for application on face, and designed to remove wrinkles, etc., Chemical. Weichsel Laboratories. No. 158,317; Aug. 29.

Preparation for the treatment of influenza, lumbago, etc. Colton & Collins, Inc. No. 158,202; Aug. 29.

Preparations, Bactericide and antiseptic. Vereinigte Chininfabriken Zimmer & Co., Gesellschaft mit beschränkter Haftung. Nos. 158,313–4; Aug. 29.

Printing presses. Miehle Printing Press & Manufacturing Company. No. 158,263; Aug. 29.

Proprietary medicine for use in treatment of sterility in women. H. W. Elders. No. 158,210; Aug. 29.

Pumps, Air. Patten Manufacturing Company. No. 158,278; Aug. 29.

Pumps and parts thereof. Fort Wayne Engineering & Manufacturing Co. No. 158,219; Aug. 29.

Pumps, Diaphragm. Ralph B. Carter Company. No. 158,199; Aug. 29.

Razors, certain knives, scissors, etc. H. Müller. No. 158,268; Aug. 29.

Razors, Safety. Gillette Safety Razor Company. No. 158,346; Aug. 29.

Razors, scissors, and hair clippers. Alexis Witte Cutlery Co. No. 158,326; Aug. 29.

Reamers, pistons, and piston pins. L. O. Beard. No. 158,334; Aug. 29.

Rouge. A. Bourjois & Co. No. 158,188; Aug. 29.

Rouge and compact powders. A. Bourjois & Co. No. 158,187; Aug. 29.

Rouge, being in the nature of a compact face powder. A. Bourjois & Co. No. 158,191; Aug. 29.

Rouge, cold cream, lip stick, toilet water, etc. Lournay, Inc. No. 158,252; Aug. 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Rouge in the nature of compact and face powder. A. Bourjois & Co. No. 158,190; Aug. 29.
Rouge, rouge powder, lip salve, etc. A. Bourjois & Co. No. 158,192; Aug. 29.
Rubber, wood-rim, and vulcanizing cements, etc. B. F. Goodrich Company. No. 158,347; Aug. 29.
Rust remover, Chemical. A. C. Sinclare Co. No. 158,301; Aug. 29.
Scales, Computing. National Store Specialty Company. No. 158,356; Aug. 29.
Scissors. Samstag & Hilder Bros. No. 158,292; Aug. 29.
Serge in the piece. Bruner Woolen Co. No. 158,335; Aug. 29.
Shears and scissors. J. S. Torrence. No. 158,364; Aug. 29.
Silver-plate tableware and certain precious-metal hollow ware. T. N. Benedict Mfg. Co. No. 158,177; Aug. 29.
Sirup and molasses, Table. Atlas Specialty Company. No. 158,172; Aug. 29.
Sirups for making soft drinks having antifever properties. M. M. Baron. No. 158,333; Aug. 29.
Soap. Wm. Gossage & Sons. No. 21,918; renewed Nov. 1, 1922.
Soap. Wm. Gossage & Sons. No. 21,921; renewed Nov. 1, 1922.
Soap, Laundry. Benjamin Brooke & Company. No. 21,671; renewed Aug. 23, 1922.
Soap, Laundry and toilet. Wm. Gossage & Sons. Nos. 22,201–2; renewed Dec. 20, 1922.
Solder. Great Western Smelting and Refining Company. No. 158,348; Aug. 29.
Speed transmissions and parts thereof, Change-. Pierce-Arrow Motor Car Company. No. 158,283; Aug. 29.
Springs, Box. International Bedding Co. No. 158,234; Aug. 29.
Step plates. Alloy Foundry and Machine Corporation. No. 158,169; Aug. 29.
Stringed musical instruments and parts thereof. C. Bruno & Son, Inc. No. 158,198; Aug. 29.
Tablet, Medicinal tonic. Irongland Company. No. 158,235; Aug. 29.
Talking machines and parts. Perfek'tone Corporation. No. 158,279; Aug. 29.
Talking-machine springs. Everybody's Talking Machine Company. No. 158,213; Aug. 29.
Talking machines, talking-machine parts, records, and needles. H. S. Berliner. Nos. 158,179–81; Aug. 29.
Telescopic instruments, Binocular. A. Perrin. No. 158,280; Aug. 29.
Tickets, Theater. Weldon, Williams & Lick. No. 158,370; Aug. 29.
Toilet preparations. I. J. Tetlow. No. 158,369; Aug. 29.
Toilet preparations, Certain. Beautyaid Company. No. 158,176; Aug. 29.
Tonic. Philo Hay Company. No. 158,282; Aug. 29.
Tonic, Blood and nerve. W. Lindsey. No. 158,249; Aug. 29.
Tonics, Medicinal. E. A. Morrissey Company. No. 158,266; Aug. 29.
Tooth paste. H. L. Fleming. No. 158,218; Aug. 29.
Veterinary ointment. Lyndon Chemical Company. No. 158,254; Aug. 29.
Wash trays. E. Stock. No. 158,331; Aug. 29.
Washboards. M. C. Frank. No. 158,220; Aug. 29.
Washboards. W. C. Palmer. No. 158,275; Aug. 29.
Washing machines. Grinnell Washing Machine Company. No. 158,226; Aug. 29.
Washing machines for laundry purposes. Boss Washing Machine Company. No. 158,186; Aug. 29.
Washing machines, Metal clothes containers for. Hurley Machine Company. No. 158,232; Aug. 29.
Watches and parts of watches. Kilchenmann Frères. No. 158,221. Aug. 29.
Watches, clocks, and parts thereof. Meyer & Stüdeli, Société Anonyme. No. 158,262; Aug. 29.
Wine tonic, Medicated. Bonovin, Limited. No. 158,185; Aug. 29.
Wrenches, Machine. Efficiency Device Corporation. No. 158,340; Aug. 29.
Wrenches, pliers, and socket-wrench sets. Barcalo Manufacturing Company. No. 158,332; Aug. 29.
Yeast plant, Chemical food for. G. Gould. No. 158,224; Aug. 29.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 29, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

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OFFICIAL GAZETTE

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VOLUME 302

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1922

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[Decisions of the Court of Appeals of the District of Columbia are indicated by one star (*); of the United States Court of Appeals by the letter (d); and of the United States Supreme Court by two stars (**).]

ERRATA.

1,428,019, page 53, in the heading, assignment, domicile of assignee, for "Anderson, N. Y." read *Anderson, Ind.*

1,428,522, page 207, first claim, line 6, before the word "mechanism" insert the word *and*.

1,428,569, page 216, in the heading, assignment, State of incorporation, for "California" read *New York*.

1,429,139, page 335, in heading, after residence of patentee insert *assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York*.

22,108 (Trade-Mark Registrations Renewed), page 392, date of registration, for "August 22, 1892" read *December 6, 1892*, and date renewed, for "August 22, 1922" read *December 6, 1922*.

Patents Nos. 1,427,766 to 1,428,511.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

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T. M. Rewewals	20		
Total	1073		

Adverse Decisions in Interference.

PATENT No. 1,385,187.

On July 25, 1922, a decision was rendered that Philip W. Olson was not the first inventor of the subject matter covered by claims 1, 2, 3, 4, and 5 of his Patent No. 1,385,187, subject, "Pencil," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,302,788.

On July 21, 1922, a decision was rendered that Greaves and Etchells were not the first inventors of the subject matter covered by claims 1 and 2 of their Patent No. 1,302,788, subject, "Electric furnace," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,327,276.

On August 4, 1922, a decision was rendered that Louis B. Hasbrouck was not the first inventor of the subject matter covered by claim 4 of his Patent No. 1,327,276, subject, "Starters for internal-combustion engines," and no appeal having been taken within the time allowed such decision has become final.

4714

Applicant's Address.

The requirement of Rule 33, that the post-office address of the applicant must be stated in the petition, means that the applicant must give the post-office address at which he customarily receives his mail.

The rule was made in order that the Office in necessary cases might correspond directly with the applicant and not through his attorney. The address of the attorney with instructions to send communications to the applicant in his care will not be accepted as a compliance with this rule.

Interference Defined.

RULE 93. An interference is a proceeding instituted for the purpose of determining the question of priority of invention between two or more parties claiming substantially the same patentable invention. In order to ascertain whether any question of priority arises the Commissioner may call upon any junior applicant to state in writing the date when he conceived the invention under consideration. All statements filed in compliance with this rule will be returned to the parties filing them. In case the applicant makes no reply within the time specified, not less than ten days, the Commissioner will proceed upon the assumption that the said date is the date of the oath attached to the application. The fact that one of the parties has already obtained a patent will not prevent an interference, for, although the Commissioner has no power to cancel a patent, he may grant another patent for the same invention to a person who proves to be the prior inventor.

Certification by the Secretary of the Interior.

By authority of an act of Congress approved August 24, 1912, (183 O. G., 507,) providing uniform charges for furnishing copies of records of the Department of the Interior and its several Bureaus, a fee of twenty-five cents will be charged by the Secretary of the Interior for every certificate of authentication of official character of the officials of the Patent Office. The fee thus provided should be paid to the Secretary of the Interior, and not to the Patent Office. Attorneys and inventors desiring such certificates are requested to remit the necessary fee to the Secretary of the Interior at the time of filing in the Patent Office an order for the copies desired.

Amendments to Amendments.

RULE 74. When an amendatory clause is amended, it must be wholly rewritten, so that no interlineation or erasure shall appear in the clause, as finally amended, when the application is passed to issue. If the number or nature of the amendment shall render it otherwise difficult to consider the case or to arrange the papers for printing or copying, the Examiner or Commissioner may require the entire specification to be rewritten.

Cross-References in Cases Relating to Same Subject.

RULE 43. When an applicant files two or more applications relating to the same subject-matter of invention, all showing but only one claiming the same thing, the applications not claiming it must contain references to the application claiming it.

Condition of Applications Under Examination at Close of Business August 26, 1922.

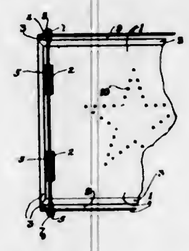
(Total number of applications waiting action, excluding Trade-Mark division, 68,800; Trade-Mark division, 8,140. Oldest new case, May 23; oldest amended, Apr. 18, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	*Jan. 7	*Feb. 20	974
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	Aug. 26	Aug. 30	1,879
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 9	Aug. 19	1,012
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Oct. 20	June 10	1,420
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 5	Nov. 4	1,173
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Nov. 5	*Mar. 27	1,393
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Nov. 19	Dec. 14	2,250
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*May 16	*July 5	904
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	July 1	*July 10	1,112
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	*Jan. 27	*May 22	1,147
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Mar. 6	*Mar. 7	802
322	12. PIERCE, P. P., Machine Elements	*Feb. 8	*May 18	1,142
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	July 28	*June 7	1,356
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	July 30	*June 19	1,219
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 7	Oct. 6	1,794
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Sept. 1	Aug. 29	2,443
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Sept. 26	*Mar. 13	1,421
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	July 14	July 13	2,441
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	Aug. 19	*Jan. 13	1,238
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Apr. 3	*Mar. 16	1,515
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Oct. 24	*Apr. 13	898
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Dec. 19	*Apr. 21	671
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Aug. 4	Nov. 25	770
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Oct. 27	*Apr. 1	1,283
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*May 19	*May 20	452
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 10	*Feb. 13	1,091
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Oct. 7	Sept. 26	2,072
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 28	Oct. 28	1,643
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Nov. 26	*June 19	625
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Feb. 6	*June 12	1,443
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 29	Nov. 15	2,003
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Oct. 13	*May 1	980
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	*Jan. 3	*Mar. 1	908
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Apr. 18	*Apr. 19	552
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Apr. 4	*Apr. 26	1,037
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 28	*Mar. 6	1,822
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Oct. 7	Nov. 4	1,910
278	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Nov. 2	Oct. 24	1,804
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 7	June 21	2,162
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Sept. 16	Dec. 10	2,592
125	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Mar. 13	*Apr. 12	863
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Oct. 5	Aug. 26	1,985
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Oct. 19	Oct. 4	1,206
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 12	*Feb. 2	1,420
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Jan. 12	*Mar. 10	1,307
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 26	Dec. 5	1,281
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Nov. 12	*Apr. 1	1,231
18	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	May 23	Apr. 18	2,871
	49.	June 9	*July 17	1,043
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
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	Designs	*Feb. 2	*May 1	2,257
	Labels and Prints	*Aug. 19	*Aug. 23	39

PATENTS

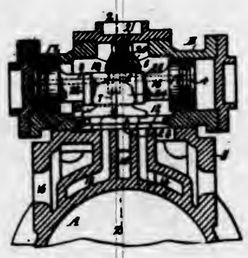
GRANTED SEPTEMBER 5, 1922.

1,427,766. COLLAPSIBLE CRATE OR BOX. DICKSON ADAMS, Canton, Ohio. Filed July 22, 1921. Serial No. 486,796. 5 Claims. (Cl. 220—6.)



1. A collapsible crate composed of four similar side sections and two similar end sections, each end section having tubular beads upon its edges, each side section having slots receiving the beads upon the end sections and wires located around the side sections and extending through the tubular beads of the end sections.

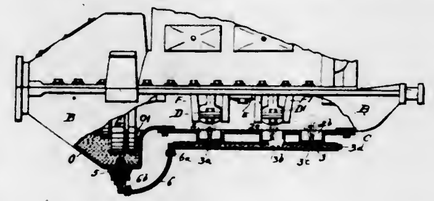
1,427,767. ENGINE VALVE. GEORGE P. ABORN, Brookline, Mass., assignor to Worthington Pump and Machinery Corporation, a Corporation of Virginia. Filed Oct. 27, 1920. Serial No. 420,038. 5 Claims. (Cl. 121—157.)



1. In a steam engine valve, the combination with a main valve, an auxiliary piston for moving the main valve, an auxiliary valve controlling the movement of the auxiliary piston, and an auxiliary exhaust passage through the auxiliary piston, of a side port in the auxiliary piston connecting with the auxiliary exhaust passage, a projection on the main valve, a side port in the projection registering with the first mentioned port and connected to the main valve exhaust cavity, and means for holding the ports in steam tight engagement.

1,427,768. OILING SYSTEM FOR GASOLINE ENGINES. RALPH ANDERSON, Fresno, Calif., assignor of one-half to H. Darrill Rominger, Fresno, Calif. Filed May 3, 1921. Serial No. 466,555. 3 Claims. (Cl. 184—11.)

1. In combination with an engine having the bearings and the fly wheel enclosed in a housing, and having an oil reservoir within the housing in which oil reservoir the fly wheel is partly submerged, of a cup attached to the housing positioned under the fly wheel, and in the oil reservoir with the open end of the cup toward the



direction the fly wheel is rotating, and a lead from said cup to portions of the housing adjacent to bearings of said engine.

1,427,769. WEAVING FRAME. MARCUS O. ANTHONY, New York, N. Y., assignor to Henry S. Sampliner, Cleveland, Ohio. Filed July 30, 1920. Serial No. 400,090. 2 Claims. (Cl. 28—1.)



1. A frame of the character set forth comprising side and end members, each member having a series of fingers projecting beyond its outer edge and provided with a kerf extending longitudinally of its outer edge beneath said fingers.

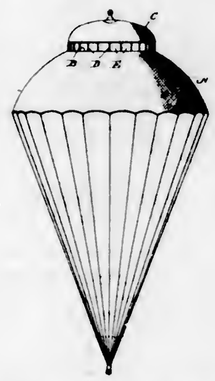
1,427,770. SOLDERING TOOL. HENRY K. AUSTIN, Reading, Mass. Filed Feb. 28, 1921. Serial No. 448,306. 2 Claims. (Cl. 113—105.)



1. A soldering tool comprising a cylindrical rod, bent near one end to form a shank, and an arm, the latter hav-

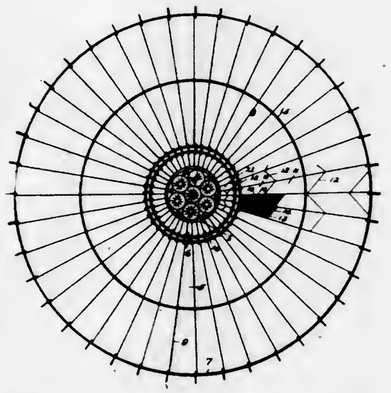
ing a peripheral groove, an elongated bit having an arm-receiving socket in its inner end portion and revoluble through a complete circle on the arm, the bit being provided with a set screw adapted to engage said groove and lock the bit to the arm at any point to which the bit may be revolved, so that the bit may be locked in a position parallel with the shank, and projecting either outward or inward from the arm either to elongate or contract the tool, and may also be locked in various intermediate angular positions, the shank being provided with a handle at the end opposite the arm.

1,427,771. PARACHUTE VENT. GUY M. BALL, Spokane, Wash. Filed Sept. 22, 1920. Serial No. 411,937. 1 Claim. (Cl. 244—21.)



A parachute embodying a main parachute body having a central circular unobstructed vent, and an auxiliary parachute body superposed above and in spaced relation to the main parachute body and directly connected along its marginal edge by flexible means to the main parachute body around said vent, the diameter of the vent and the diameter of the auxiliary parachute being equal.

1,427,772. FABRIC STRUCTURE FOR PARACHUTES AND AEROSTATS AND METHOD OF CONSTRUCTING THE SAME. GUY M. BALL, Spokane, Wash. Filed May 5, 1921. Serial No. 467,128. 3 Claims. (Cl. 244—21.)



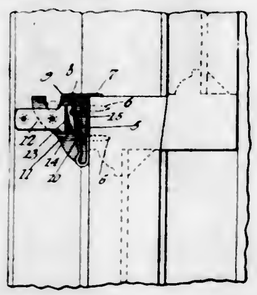
1. A fabric covering for aerial devices comprising a plurality of panels of woven material secured together by seams at adjoining edges, each panel being made of a plurality of diagonally extending segments secured together by intersegmental seams at adjoining edges and said intersegmental seams of one panel being obliquely related to the intersegmental seams of adjacent panels.

1,427,773. DEFLECTION INDICATOR. WILLIAM J. BARRETT, Bridgeport, Conn. Filed Aug. 25, 1921. Serial No. 495,276. 11 Claims. (Cl. 33—147.)



1. A device of the class described including a bar adapted to be inserted between two elements and comprising two sections slidable longitudinally relatively to each other, an indicator carried by one of said members, and positively acting means carried by the other member for operating said indicator, said means being adjustable relative to the member and longitudinally thereof.

1,427,774. ANTIRATTLER. HENRY WALLACE BENNER, Bethlehem, Pa. Filed Aug. 27, 1921. Serial No. 495,990. 2 Claims. (Cl. 292—76.)



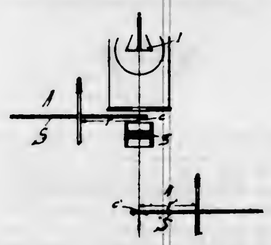
1. An anti-rattler including a body portion having a right angled extension formed adjacent to the upper end thereof, and having a downwardly curved portion, a spring member formed integral with the body portion and adapted to incline outwardly and contact with the curved portion, and an abutment having an offset portion provided with an inclined edge adapted to contact with the spring member for exerting a pressure on the body portion.

1,427,775. AMUSEMENT DEVICE. ALVIN L. BLACK, Alto, Tex. Filed Jan. 4, 1922. Serial No. 526,928. 1 Claim. (Cl. 104—67.)

In combination, a pair of track-ways disposed side by side and each provided with an inclined portion, said inclined portions extending in opposite directions from each other, a car on each trackway, a plurality of pulleys on each track-way, some of said pulleys being situated at the top of each incline and others adjacent the bottom thereof, and a cable trained over said pulleys and attached to the rear end of the cars in the manner and for the purpose specified.

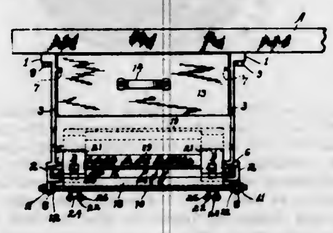


1,427,776. ADJUSTING ELECTRIC METERS. OTTO TITUSZ BLÁTHY, Budapest, Hungary. Filed Jan. 14, 1922. Serial No. 529,268. 2 Claims. (Cl. 88—14.)



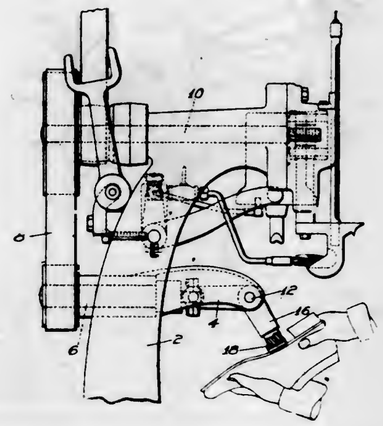
1. A testing set for electric meters, comprising a pair of rotary parts mounted on parallel axes, one of which parts is provided with a circumferential series of equidistant transparent spots, a source of light projecting a pencil of rays illuminating a portion of the marks, the other rotary part being provided with a circumferential series of equidistant marks, and a condensing and reversing optical system between the two rotary parts in the path of the pencil of light.

1,427,777. SLIDABLE WORK SUPPORT. ALONZO S. BLOWERS, Portland, Ind. Filed Jan. 31, 1921. Serial No. 441,231. 1 Claim. (Cl. 45—75.)



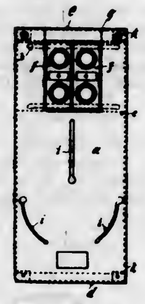
In combination with a bench, a base forming a table mounted to slide in and out in connection with the bench, a block secured to the underside of the base, a frame of less width than said table, hinges by which the frame is adapted to stand vertical or to be turned back and lie flat on the base, latches located near the forward corners of the base, a hanger which is U-shaped in cross section secured to the under face of said block, a tongue which fits between the sides of the hanger with its forward end forming an angularly faced hook portion which fits in an eye where it is adapted to be retained by gravity, all substantially as shown and described.

1,427,778. SHOE-SHAPING MACHINE. CHARLES M. BRADFORD, Boston, and RALPH C. SIMMONS, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Aug. 24, 1916, Serial No. 116,676. Patent No. 1,331,613, dated Feb. 24, 1920. Divided and this application filed Nov 29, 1918. Serial No. 264,641. 14 Claims. (Cl. 12—33.)



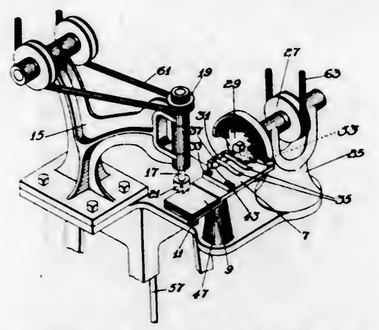
1. In a machine of the class described, a non-rotary tool for shaping the sole of a shoe by rubbing movement along the surface of the sole, and means for imparting simple oscillatory movement to the tool, the tool being arranged to receive the upwardly directed pressure of a shoe in the hands of the operator.

1,427,779. DISTRIBUTING BOARD FOR ELECTRIC HOUSE INSTALLATIONS. MELCHIOR BREITNER, Halle-on-the-Salle, Germany. Filed Sept. 16, 1920. Serial No. 410,728. 1 Claim. (Cl. 247—2.)



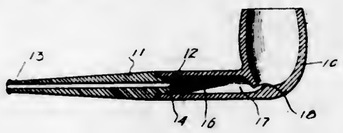
A distributing board for electric house installation, comprising a sheet metal plate having side flanges, a detachable end member arranged between said side flanges and having a flange bearing against the inner side of the plate, and screws securing said flange and said plate together, the said side flanges of the plate having inturned lugs which bear against said detachable member.

1,427,780. MACHINE FOR BEVELING EDGES OF BUTTONHOLES. WILLIAM J. BRENNAN, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 21, 1919. Serial No. 284,148. 10 Claims. (Cl. 69—1.)



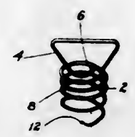
1. A machine of the class described, having in combination, a support for a piece of work having a buttonhole therein, a cutter located above one portion of the support and shaped to bevel the edge of the eye of the buttonhole, a second cutter located above an adjacent portion of the support and shaped to bevel the edges of the slit of the buttonhole, and means for causing relative movement of approach between the work support and the cutters.

1,427,781. PIPE. GEORGE NELSON BROATCH, Moose Jaw, Saskatchewan, Canada. Filed Oct. 13, 1919. Serial No. 330,164. 1 Claim. (Cl. 131—12.)



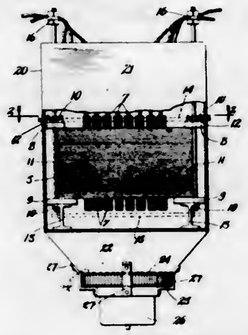
A pipe comprising a bowl and a sectional stem, said stem being formed with an enlarged chamber communicating with the bowl through a constricted opening in the inner wall of said chamber, said mouth piece provided at its inner end with a reduced shoulder, and a hollow cone-shaped perforated metal or wire screen having its enlarged end engaging said reduced shoulder, and its tapered end extending within the chamber for the purpose specified.

1,427,782. TYING DEVICE. JAMES A. BROGAN, Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 12, 1920. Serial No. 373,235. 2 Claims. (Cl. 24—1.)



1. A detachable device for fastening a pair of shoes by their uppers, comprising a continuous length of wire bent at one end to provide a handle for manipulation of the device and having a helically bent portion terminating in a free end of the wire for insertion through lacing openings in the shoe upper, the pitch of the helix increasing from the said handle toward the free end.

1,427,783. AIR-COOLED TRANSFORMER. JAMES BURKE, Erie, Pa., assignor to Burke Electric Company, a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 336,215. 4 Claims. (Cl. 175—361.)



1. The combination of a transformer having a core and coils and vertical air passages between the coils, a casing surrounding the core and coils on the sides and open at one end, and means closing the opposite end of said casing comprising a centrifugal fan wheel for drawing the air through the transformer from the open end of the casing, and an electric motor for driving said wheel located outside said casing and at the opposite side of said wheel from the transformer.

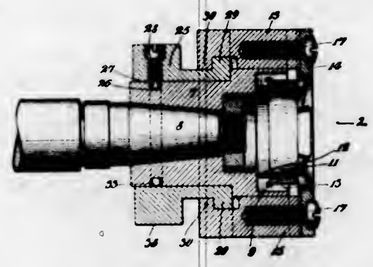
1,427,784. RAT TRAP. RICHARD COOK, New York, N. Y. Filed Aug. 30, 1921. Serial No. 496,839. 1 Claim. (Cl. 43—69.)



A trap including a reticulate body, reticulate walls mounted on the floor of said body, said walls forming a rectangular room having one of its corners extended to provide a passage way, and a platform pivotally mounted in said passage way and equipped with a rod extending toward one of said walls and carrying a weight, and a guard wall rising up from the floor of said body to form in conjunction with one of the side walls, a compartment for the weight.

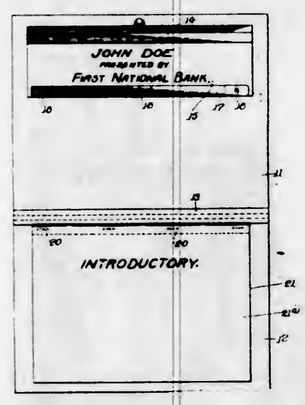
1,427,785. CHUCK. RUSSELL K. DAVIS, Hartford, Conn., assignor to The Skayef Ball Bearing Company, a Corporation of Connecticut. Filed Mar. 2, 1922. Serial No. 540,406. 7 Claims. (Cl. 279—1.)

1. The combination of a chuck body having a work seat at its front end, a collar rotatably mounted on the rear portion of the said body and provided at its forward end with a plane face and a pair of segmental flanges each having at its rear side a cam face, there being on the body a rearwardly facing shoulder engaging the forward end of the collar, a binding plate disposed in front of the work seat, there being longitudinally disposed grooves in the body, and a pair of cam engaging slides



located in said grooves and secured at opposite sides to the binding plate and provided with forwardly directed faces engaging the cam faces of the said flanges.

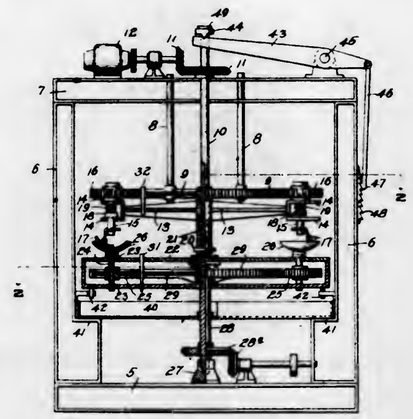
1,427,786. RECORD CALENDAR. GEORGE H. DEATON, Maywood, Ill. Filed May 28, 1920. Serial No. 384,850. 15 Claims. (Cl. 40—119.)



9. A record calendar comprising a pad of assembled sheets suitably mounted for turning in leaf form, the alternate sets of opposed pages corresponding in character, the first set bearing one a calendar for the current month and the other twin calendars for each of the preceding and following months, and the next set of opposed pages having blank spaces one for general record entries and the other for entries of a specific character, whereby record pages in course of entry will be normally concealed from view by one of the overlying current calendar pages and completed record pages will be concealed from view by the associated calendar page, and a flap for holding the twin calendar page down upon leaves bearing completed entries to main their privacy, said flap provided with a tack for piercing the upturned leaves.

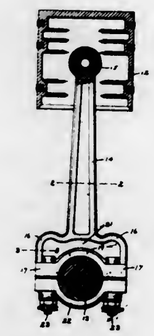
1,427,787. LENS-GRINDING MACHINE. ANTHONY JOSEPH DE WILLE, Sutersville, Pa. Filed Apr. 21, 1919. Serial No. 291,657. 16 Claims. (Cl. 51—131.)

16. A lens grinding machine comprising, a rotatable lens holding member, a rotatable lap member co-operating therewith, means for revolving said holding member and said lap member in directions transverse to the axis of



rotation thereof and means for moving one of said members away from the other.

1,427,788. CONNECTING ROD. CARL BRUNO DREVITSON, Somerville, Mass. Filed Dec. 8, 1921. Serial No. 520,887. 8 Claims. (Cl. 74—48.)

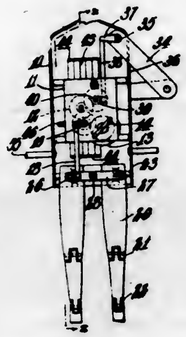


1. A connecting-rod comprising an elongated rigid body, having at one end a rigid member forming an element of a one-point pivotal connection between said body and a piston; and at its opposite end a crank-shaft bearing member, and means forming a resilient two-point connection between the body and the said member, said means being integral with the body and the bearing member, and adapted to space the body from the bearing member.

1,427,789. MECHANICAL TOY. JOSEPH DYMNICKI, New London, Conn. Filed June 7, 1921. Serial No. 475,634. 2 Claims. (Cl. 46—40.)

1. A toy comprising a body casing, power mechanism therein, a support for said casing, legs hinged to said casing, lugs projecting rearwardly from said legs, a lever fulcrumed between its ends in said casing and having

slot and pin connections at opposite ends with said lugs, whereby oscillation of said lever causes said legs to



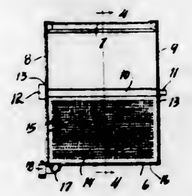
oscillate, and means forming an operative connection between said power mechanism and lever.

1,427,790. TOY. JAMES J. EARLEY, Brooklyn, N. Y. Filed Mar. 27, 1920. Serial No. 369,438. 1 Claim. (Cl. 46—48.)



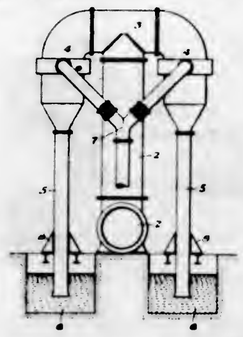
A toy of the character described comprising a wheeled frame, means for moving said frame in a forward and rearward direction, said means including an elastic element adapted to be tensioned upon movement of the toy in one direction, and subsequently acting to reverse the movement of said toy, and means for checking the movement of the toy in either direction.

1,427,791. WASHING-MACHINE TUB. HAROLD WILLIAM EDEN, Chicago, Ill., assignor to Albaugh-Dover Company, a Corporation of Illinois. Filed Jan. 12, 1920. Serial No. 350,957. 1 Claim. (Cl. 68—18.)



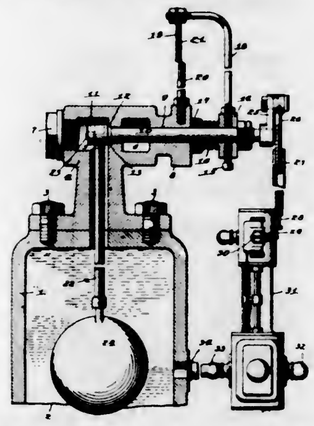
In a washing machine, an imperforate oscillatable suds and clothes cylinder provided with an operating shaft at its central axis, a perforated partition secured to said shaft and extending therefrom to within a short distance from the lower cylindrical wall of said casing to divide the lower half of said cylinder into two compartments with a sediment passage therebetween, and a drain cock extending through the lower cylindrical wall of said cylinder in the plane of said partition to receive sediments from both compartments.

1,427,792. BAROMETRIC CONDENSER. WILLIAM S. ELLIOTT, Pittsburgh, Pa. Filed Oct. 3, 1919. Serial No. 328,319. 5 Claims. (Cl. 261—23.)



1. A condenser, comprising a centrally arranged exhaust pipe and a plurality of barometric condensers arranged around said pipe and connected therewith, said exhaust pipe forming the main support for said condensers, substantially as described.

1,427,793. LIQUID-LEVEL-CONTROLLING DEVICE FOR BOILERS OR STILLS. VICTOR LEE EMERSON, Philadelphia, Pa. Filed May 12, 1921. Serial No. 468,998. 6 Claims. (Cl. 103—14.)

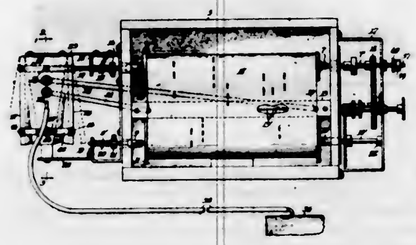


1. In a device of the character described, a liquid container, means within said container responsive to the level of liquid therein, a casing mounted on said container, said casing having a chamber therein communicating with said container and a passage extending from said chamber outwardly through said casing, a movable element mounted in said casing and extending through said passage, said movable element being provided with a portion forming a closure between said chamber and passage, means for connecting said means responsive to the liquid level with said movable member, and means for retaining the closure portion of said movable element in a closed position.

1,427,794. DOUBLE-ACTING PNEUMATIC MOTOR. OSCAR A. ERICSON, Chicago, Ill., assignor to W. W. Kimball Company, Chicago, Ill., a Corporation of Illinois. Filed July 31, 1920. Serial No. 400,467. 3 Claims. (Cl. 84—140.)

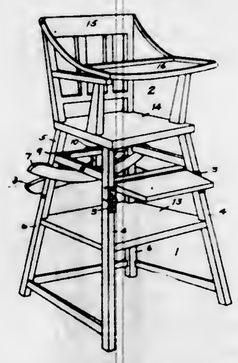
1. A double acting pneumatic motor for music sheet tracker devices, comprising a stationary central block

and a pair of bellows having movable sides hinged to opposite sides of said block, a main suction duct formed in said block, a suction pipe communicating with said main suction duct, branch ducts in said block leading from said main suction duct into said bellows, respectively, bleed vents in said branch ducts, independent



pressure connections leading into said block and communicating with said branch ducts on the opposite sides of said bleed vents from said main suction duct, a music sheet directly opening and closing said pressure connections and a bar connecting and spacing the movable sides of said bellows for simultaneous movement in either direction.

1,427,795. COMBINATION CONVERTIBLE HIGH CHAIR. THEODORE ERNST, Bayfield, and HENRY G. ERNST, Superior, Wis. Filed July 18, 1921. Serial No. 485,407. 1 Claim. (Cl. 155—39.)



A convertible high chair and cradle comprising a seat section and a base section, the front legs of which are hingedly united, a horizontally disposed bottom in each section which align with each other when the device is used as a cradle, rockers rigidly fixed to the abutting ends of the rear legs when used as a chair said rockers being made to overlap each other when the device is in such position with the rocker on the legs of the seat section resting upon the ends of the legs on the base section, and means for rigidly holding said sections with the rockers in such overlapped position.

1,427,796. BAKING UTENSIL. ISABEL EVERY, Hibbing, Minn. Filed Oct. 3, 1921. Serial No. 504,896. 2 Claims. (Cl. 53—6.)

1. A pie protector of the class described comprising a perforated angular ring having a horizontally disposed inwardly projecting flange upon the upper edge thereof, headed pegs spaced about the upper face of said flange and a removable perforated cover having L-shaped slots there-



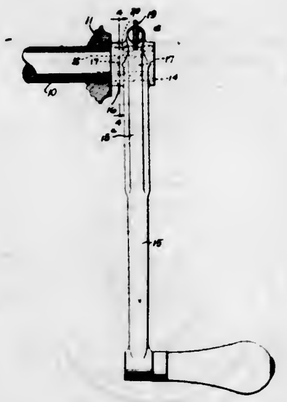
in for registration with the headed pegs whereby the cover may be engaged with said ring for the purpose described.

1,427,797. NUT LOCK. JOHN J. FARRELL, Lawrence, Mass., assignor to A. M. Farrell, Philadelphia, Pa. Filed May 14, 1921. Serial No. 469,610. 5 Claims. (Cl. 151—53.)



1. In a nut lock, a washer having an opening through it for the bolt and having formed integral with it a locking tongue so formed that its point extends within the line of the opening as formed, having its base portion bent upward and its point bent downward so that its point will be sufficiently out of the way of the nut to permit it to be turned.

1,427,798. ADJUSTABLE CRANK. JOHN M. FEENEY, Bridgeport, Conn. Filed Apr. 25, 1921. Serial No. 464,271. 15 Claims. (Cl. 287—53.)

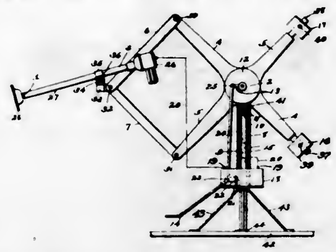


15. The combination of a shaft and a handle for turning the shaft, of cooperating means on said handle and shaft and engageable by relative longitudinal and circumferential movements of the handle and shaft to attach the handle to the shaft, and means for adjusting the position of the handle longitudinally of the shaft.

1,427,799. FLEXIBLE BALANCED SUPPORT. ALBERT C. FOULK, Holton, Kans. Filed Nov. 17, 1921. Serial No. 516,000. 12 Claims. (Cl. 244—31.)

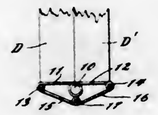
1. In a flexible supporting system comprising a system of interconnected counterbalanced levers and links, means for attaching the object to be supported, means for adjusting said levers and links of said supporting system in all

planes, means for locking said system in any position and releasing same therefrom, and means for permitting move-



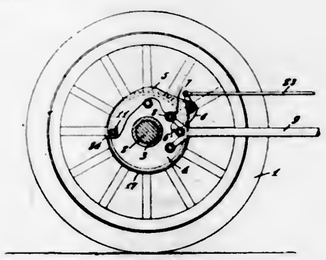
ment of the object to be supported, in any plane with relation to the supporting system.

1,427,800. HINGE. CHARLES M. FRENCH, Brooklyn, N. Y. Filed Nov. 12, 1920. Serial No. 423,611. 4 Claims. (Cl. 16—163.)



3. A door hinged at one edge to a supporting member and a pair of hinged covering plates with one edge of one of the plates pivotally connected to the edge of the door opposite the hinged edge and the other plate pivotally connected at its edge to the supporting member, the width of the covering plates and their points of connection to the door and the supporting member being adapted to prevent the three pivotal centers of the covering plates forming a straight line with the pivotal center between the covering plates in the middle when the door is turned on its hinge through any desired arc.

1,427,801. BRAKE. JONATHAN M. GRIMM, Appolo, Pa. Filed Mar. 12, 1918. Serial No. 222,014. 1 Claim. (Cl. 188—77.)



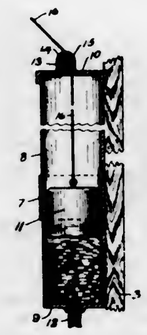
The combination with the rear axle housing and its annular flange, of an automobile, and a radius rod connected to the flange, there being attaching devices extending from the flange, of a plate slidable onto one face of the flange into interlocked relation therewith, said plate being held against rotation upon the flange by the attaching device projecting from the flange and straddled by the plate, said radius rod and flange cooperating to hold the plate against lateral displacement relative to the flange, of a spindle mounted for rotation in the plate, spaced parallel pins projecting from one end of the spindle and out of line with the axis of rotation thereof, a brake band connected at its ends to the respective pins, and means for rotating the spindle to contract the band or to loosen the same.

1,427,802. GUN SILENCER, FLASH COVER, AND RECOIL CHECK. GEORGE A. GOODWIN, Dayton, Ohio. Filed Apr. 18, 1921. Serial No. 462,292. 3 Claims. (Cl. 89—42.)



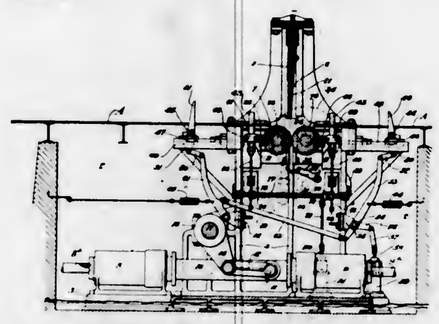
3. In combination, an interiorly screw-threaded gun barrel, an exteriorly screw-threaded hollow sleeve adapted to be screwed therein, a nut integral with sleeve, a hollow extension beyond said nut, the passage through said hollow extension being venturi-shaped, a gun silencer being detachably secured to said sleeve extension, said gun silencer comprising an inner casing provided with an inlet and outlet in horizontal alignment for the passage of a bullet, said inner casing being further provided with a plurality of laterally disposed apertures, a plurality of angularly disposed and centrally apertured baffles provided with flanges parallel to and connected to the inner walls of said inner casing and provided with laterally disposed apertures in register with those of said inner casing, an outer casing arranged about and connected to said inner casing at its discharge end, said outer casing having a discharge opening arranged at its rear end and annularly about said gas inlet.

1,427,803. GASOLINE INDICATOR FOR AUTOMOBILES. GEORGE J. GUTH, Denver, Colo. Filed Feb. 3, 1922. Serial No. 533,829. 2 Claims. (Cl. 73—82.)



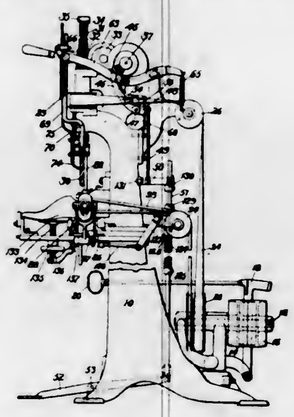
2 In combination with a liquid fuel tank and an instrument board, a tubular float chamber connected to said tank and adapted to contain liquid at the same level as in the tank, a float within said chamber, an indicator on said instrument board, said indicator comprising a supporting plate having an opening therein, a pair of spaced arms projecting from one side of said plate, an indicating wheel rotatably mounted between said arms, a spring secured to said wheel and to one of said arms and adapted to rotate the wheel in one direction, means for adjusting the tension of said spring, a string secured to the wheel and to the float and adapted to move said wheel against the tension of said spring, and a member provided with indicia secured to said wheel, said last named member being adjustable with relation to said wheel.

1,427,804. DOUBLING APPARATUS. STORM B. HAARBYE, Coraopolis, and HOWARD G. MCILVRIED, Pittsburgh, Pa., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Sept. 7, 1921. Serial No. 499,016. 6 Claims. (Cl. 153—21.)



1. A plate doubling mechanism comprising opposed rolls, means for driving said rolls, a doubling knife above said rolls, said knife being adapted to force plates into the bite of said rolls, means for operating said knife, and automatic means for reversing the direction of rotation of said rolls so as to feed said plates from between said rolls.

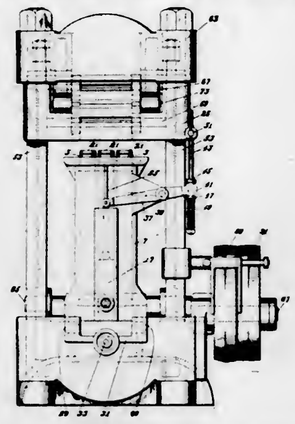
1,427,805. BORING MACHINE. JOHN B. HADAWAY, Swampscott, and IRA C. BUCKMINSTER, Beverly, Mass., assignors, by mesne assignments, to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Feb. 4, 1918. Serial No. 215,402. 61 Claims. (Cl. 144—93.)



1. A machine of the class described having, in combination, boring means, and positioning mechanism, constructed and arranged to effect between the boring means and successive pieces of work which differ in a dimension a uniform relation determined by a definite fraction (other than ½) of the said dimension.

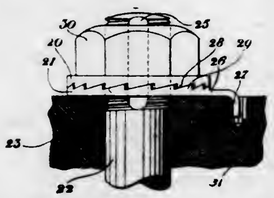
1,427,806. LEATHER-STRAIGHTENING MACHINE. JOHN B. HADAWAY, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 20, 1918. Serial No. 229,741. 21 Claims. (Cl. 149—17.)

2. In a machine of the class described, in combination, a work support made up of a plurality of sections, each section being constructed and arranged to vary the inclination of its upper surface to support the superimposed portion of an uneven piece of stock placed on the work support, means to apply pressure to a piece of



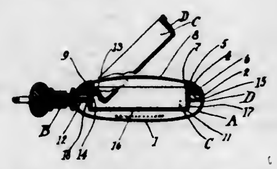
stock thereupon, and means yieldingly to sustain the several sections of the work support.

1,427,807. LOCK WASHER. EDWARD A. HALBLEIB, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed July 31, 1918. Serial No. 247,610. 4 Claims. (Cl. 287—53.)



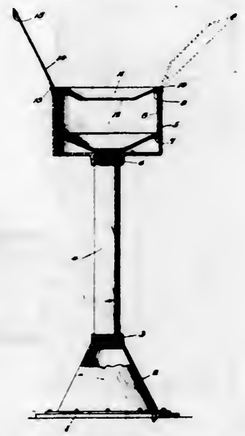
1. Lock-washers, formed for non-rotative engagement with a stud or the like and with a relatively stationary member, characterized by the fact that they are provided with peripheral inclines adapted to cooperate, when the washers are used in pairs, so as to promote relative rotation of the washers in one direction, and to prevent opposite rotation when the washers are compressed by a nut or the like.

1,427,808. WATCHCASE. ALBERT L. HAMAN, St. Paul, Minn. Filed Aug. 11, 1919. Serial No. 316,613. 3 Claims. (Cl. 58—106.5.)



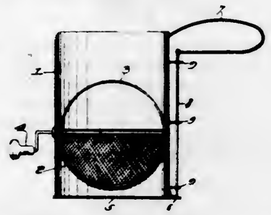
1. A watch case comprising a body portion having a centrally disposed aperture, a movement carrying ring hinged to said case at the edge of said aperture to swing into and out of the same and having a depending chamfered portion and a cap of highly magnetic metal or material enclosing said ring and having a contracted base portion engaging the depending ring portion to be frictionally held thereon for the purpose set forth.

1,427,809. CUSPIDOR. WINFIELD F. HARTLINE, Canton, Ohio. Filed Aug. 31, 1921. Serial No. 497,130. 1 Claim. (Cl. 4—39.)



A cuspidor comprising a pedestal, a bowl carried by the upper end of the pedestal and having a circumferential bead on its inner wall above its bottom, a guard hinged to the upper edge of the bowl and adapted to extend across the bowl, said guard consisting of a dished annulus, a cover hinged to the upper edge of the bowl at a point diametrically opposite the guard, the cover being adapted to overlie the guard, and a pan fitting closely within the bowl and having a tapered bottom resting on the circumferential bead in the bowl, the pan being provided at its top with an internal flange and the guard overlying the pan with its inner circular edge below the top of the pan.

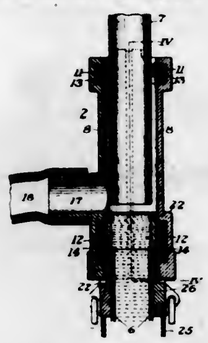
1,427,810. FLOUR SIEVE. MARION HEALD, Golden, Colo. Filed Aug. 24, 1920. Serial No. 405,592. 1 Claim. (Cl. 220—32.)



A utensil of the kind set forth comprising a cylinder, a bottom element hingedly attached to the cylinder at its lower end and formed with a projecting ear, a U-shaped spring handle element for the cylinder having one leg attached to the cylinder, and a rod member slidably mounted on the cylinder, and having one end pivotally connected to the remaining leg of the handle element and the remaining end bearing upon said ear for the useful purposes herein specified.

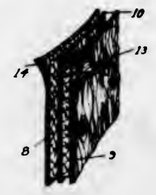
1,427,811. OIL SAVER. CHARLES M. HEETER, Butler, Pa. Filed Sept. 26, 1918. Serial No. 255,766. 2 Claims. (Cl. 166—16.)

1. An oil saver having a plurality of separable sections, packing members in each end of said sections adapted to engage casing portions of different diameters, the width of the contacting surfaces of the packing members at one end of the saver being materially greater than the width of the contacting surfaces of the packing members at the other end of the saver, said packing members of greater width being effective for preventing rotation of the portion of the casing engaged thereby during



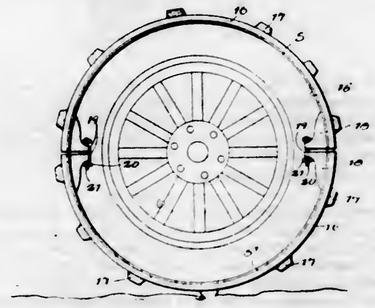
rotation of the portion of the casing engaged by the other packing members, and means for locking said sections about the casing to be drawn.

1,427,812. PANEL. JOSEPH F. HIRT, Chicago, Ill., assignor to Sonora Phonograph Company, a Corporation of New York. Filed Apr. 6, 1920. Serial No. 371,663. 6 Claims. (Cl. 20—89.)



1. A panel comprising a central sheet of veneer having its grain disposed lengthwise the panel, a cross-band of thick veneer on each side of said central sheet, the cross-bands having their respective porous faces next to the central sheet, the grain of said cross-bands being disposed crosswise to the panel, said sheet and cross-bands being glued together and pressed to bulge shape.

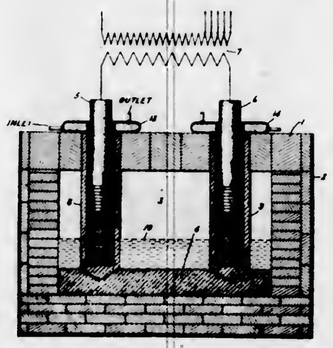
1,427,813. TRACTION DEVICE FOR WHEELS. CHRISTOPHER KEAWEOPALA HOLT, Honolulu, Territory of Hawaii. Filed Oct. 12, 1921. Serial No. 507,285. 1 Claim. (Cl. 152—33.)



A traction device for wheels, comprising two semi-circular rim sections, each having a width appreciably

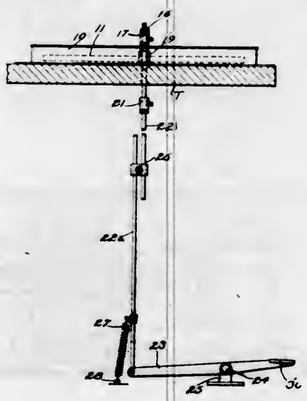
exceeding the width of a vehicle tire, guides disposed adjacent the ends of the inner periphery of each section, said guides of arcuate form in cross section to accommodate the tire, perforated ears formed on the guides and extending radially therefrom, a resilient covering for each of the sections, said cover being coextensive in width with the section, and cleats carried by said coverings.

1,427,814. ELECTRIC FURNACE. EDWARD H. HORSTKOTTE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 3, 1920. Serial No. 378,392. 4 Claims. (Cl. 204—64.)



1. An electric furnace comprising a container, a resistance heater therein comprising a plurality of dished discs in electrical contact at a peripheral zone but out of contact at a central portion and a refractory shield located between said heater and a charge in said furnace.

1,427,815. PASTE-APPLYING APPARATUS. WILLARD C. HUNTING, Cochituate, Mass., assignor to Hasen-Brown Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 25, 1919. Serial No. 319,576. 1 Claim. (Cl. 91—47.)

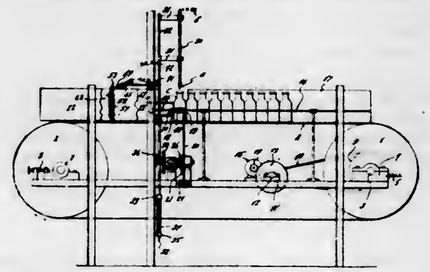


Paste applying apparatus comprising a paste pan, an applying grid mounted for movement into and out of said pan, a treadle mounted to one side of said pan and having connections for lifting said grid, and spring means for drawing the grid downward.

1,427,816. TREATMENT OF ZIRCONIUM ORES. OTIS HUTCHINS, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Sept. 22, 1920. Serial No. 411,989. 4 Claims. (Cl. 204—63.)

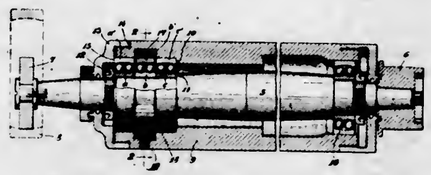
1. The process of treating zirconium ores to produce substantially pure zirconia, which consists in subjecting a mixture of the impure zirconium ore and reducing agent to heat sufficient to reduce a portion of the impurities of the ore to metallic form and then separating the impurities from the zirconia.

1,427,817. APPARATUS FOR TESTING GLASS CONTAINERS. OLIVER C. K. HUTCHINSON, Alton, Ill., assignor to Illinois Glass Company, Alton, Ill., a Corporation of Illinois. Filed June 4, 1921. Serial No. 475,085. 20 Claims. (Cl. 83—92.)



1. An apparatus for testing glass containers comprising an upper electrode, a carrier adapted to carry a glass container to a position adjacent said upper electrode, said carrier being provided with a lower electrode adapted to engage the glass container, and means whereby a spark is caused to jump from one of said electrodes to the other.

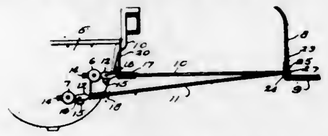
1,427,818. ANTIFRICTION-BEARING MOUNTING. WALTER L. HUTCHINSON, Hartford, Conn., assignor to The Skayef Ball Bearing Company, a Corporation of Connecticut. Filed July 20, 1921. Serial No. 486,108. 11 Claims. (Cl. 64—36.)



8. In a high speed spindle, the combination with a spindle having a working end and a driven end, of a quill surrounding the spindle and from the ends of which the ends of the spindle project, ball bearing support for the spindle at the driven end, three ball bearings mounted at the work end, the inner rings of the said ball bearings being clamped together on the spindle, the quill at such end being formed with a housing adapted to engage in a suitable manner the outer rings of the laterally disposed bearings and being chambered out radially of the outer ring of the intermediate bearing, such ring being free of the laterally disposed bearings, and a closure for the end of the quill having a suitable opening for the projecting work end of the spindle and adapted to engage the outer ring of the outermost lateral bearing, there being provided stop shoulders for limiting the closing movement of such closure whereby sufficient space is provided

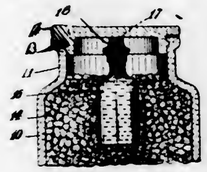
for permitting the aforementioned freedom between the sides of the outer rings, and means for moving the outer ring of the intermediate bearing radially.

1,427,819. DEVICE FOR ACTUATING PET COCKS OR VALVES. LOUIS FOSTER JACKSON, Starkville, Miss. Filed May 23, 1921. Serial No. 471,674. Renewed Jan. 25, 1922. Serial No. 531,821. 2 Claims. (Cl. 137—139.)



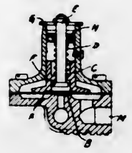
1. In a device of the character described, a rod having a forked head pivotally connected with the head of the stem of a pet cock carried by the crank case of an automobile, a stop element formed upon one side of the forked head and adapted to contact with the crank case and limit the turning movement of the rod in one direction, a torsional coil spring surrounding the rod and having one end secured to the same and its opposite end extending upwardly and engaging over the supporting bracket of the crank case, a bearing plate to be arranged adjacent the dust guard and mud guard of the automobile and having an opening to receive the outer end of the rod, and a crank formed upon the outer end of the rod and adapted to be vertically swung to turn said rod.

1,427,820. TOILET PACKAGE. MARTIN KAUFMAN, New York, N. Y. Filed Feb. 13, 1922. Serial No. 536,068. 5 Claims. (Cl. 215—6.)



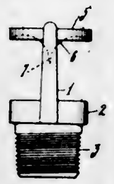
1. A toilet package comprising a jar-like receptacle substantially filled with sea salt, a cap for said receptacle, and a small bottle of concentrated flower essence carried by said cap, said cap being formed with a recess on its underside into which the top of said bottle projects, and a plastic material set in said recess and acting to hold the bottle on the cap and seal the mouth thereof.

1,427,821. SAFETY CUT-OUT DEVICE FOR USE ON GAS-SUPPLY SYSTEMS. GEORGE KEITH, London, England, and JOHN EDWARD POINTON, Peterborough, England, assignors to James Keith & Blackman Company, Limited, London, England, a Corporation of Great Britain. Filed Sept. 15, 1921. Serial No. 500,865. 1 Claim. (Cl. 67—115.)



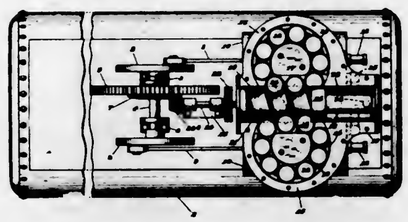
A safety cut-out device for use on gas-supply systems, comprising a diaphragm valve element, a diaphragm casing across which said diaphragm is stretched, said casing presenting on one side of said diaphragm a central valve seat of small area compared with the area of said diaphragm, a plunger movable in said casing on the other side of said diaphragm, a manually operable spindle also on said other side of said diaphragm and having a head engageable with said plunger and operative to move said plunger away from said diaphragm but inoperative to move said plunger towards said diaphragm, and a spring surrounding said spindle and pressing said plunger against said diaphragm in the direction towards said seat.

1,427,822. SPRINKLER HEAD. WILLIAM A. KENNEDY and ALBERT J. LOEFSINGER, Providence, R. I., assignors to General Fire Extinguisher Company, New York, N. Y., a Corporation of New York. Filed Mar. 11, 1918. Serial No. 221,651. 1 Claim. (Cl. 299—121.)



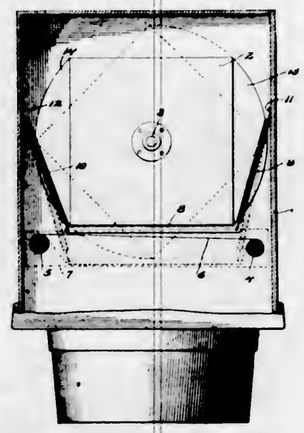
A sprinkler head adapted for fire protection of a building to throw water in thin distributive stream, comprising the combination, with a nozzle, of a deflector adapted to convert the form while conserving the velocity of the jet from the nozzle; said deflector having an initial central pointed portion presented toward the nozzle and in axial alignment therewith, and curving outward from its innermost point and so making the jet tubular; a terminal smooth flaring portion, directed backward, with respect to the direction of flow through the nozzle, of such great perimeter that the said tubular stream covers it but thinly; and a smooth curved intermediate portion continuous in curvature with both said central curved surface and said terminal flaring portion in which intermediate portion the curvature of stream direction away from the nozzle direction, and the spread in breadth of a stream from its dimension at the nozzle, are sufficiently gradual to avoid breaking the stream on the surface of the deflector; the part of said terminal flaring portion which is adjacent to the said intermediate portion being curved in continuity with the curvature of the intermediate portion.

1,427,823. AIR COMPRESSOR. JOHN KERR, Toronto, Ontario, Canada. Filed July 9, 1920. Serial No. 395,016. 9 Claims. (Cl. 230—30.)



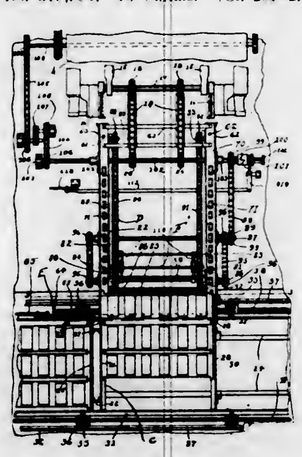
1. In an air compressor, a receiving tank, a piston and cylinder having an air inlet and suitable check valve, an intermediate chamber communicating with said receiving tank, a screw drive suitably enclosed and communicating with said intermediate chamber and with said cylinder and means for operating said piston and said screw drive coincidently to drive the air continuously to the receiving tank in superpressed quantities.

1,427,824. FOCAL-PLANE SHUTTER-CURTAIN-DEPRESSING MECHANISM. EDWIN F. KINGSBURY, Rutherford, N. J. Filed Dec. 6, 1919. Serial No. 342,874. 8 Claims. (Cl. 95—2.)



1. In combination with a camera having a revoluble magazine, a flexible focal plane shutter curtain, means for depressing said curtain when the magazine is revolved, and means for restoring said curtain to its normal position after it has been depressed.

1,427,825. MACHINE FOR AUTOMATICALLY LOADING BRICKS ON PALLETS INTO RACK DRIER CARS. CHARLES H. KLEIN, Chaska, Minn. Filed Aug. 26, 1919. Serial No. 319,984. 16 Claims. (Cl. 25—2.)

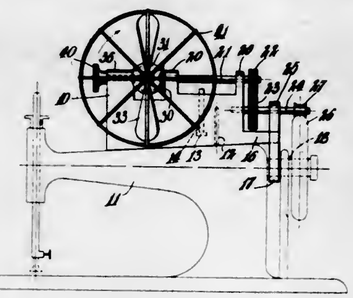


1. The combination with a brick press adapted to deliver brick laden pallets, one after the other, of pallet transporting mechanism, a conveyor between the press and said transporting mechanism arranged to receive the loaded pallets as they issue singly from the press, said conveyor being adapted to accumulate said pallets, edge to edge, thereon, and ejecting means, timed to accord with the output of the press, adapted upon one working thrust thereof to push a completed group of pallets of a given number from the delivery end of said conveyor onto said pallet transporting mechanism.

1,427,826. PURIFICATION OF ZINC-SULPHATE SOLUTIONS. CHARLES R. KUZELL and JOHN R. MARSTON, Clarkdale, Ariz. Filed Aug. 15, 1921. Serial No. 492,475. 4 Claims. (Cl. 23—13.)

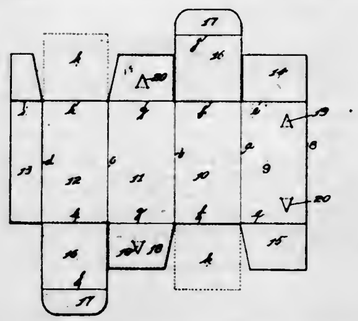
1. The process of purifying zinc sulphate solution containing arsenic as an impurity, which comprises acidulating the solution with sulphuric acid, treating the solution with a metallic sulphide, and heating the same until the arsenic is precipitated as a sulphide.

1,427,827. FAN ATTACHMENT FOR SEWING MACHINES. WALTER LABURDA, Conlton, Okla. Filed Apr. 18, 1921. Serial No. 462,150. 3 Claims. (Cl. 230—10.)



1. An attachment for sewing machines comprising a rotary fan, a support for said fan, and driving means for said fan journaled in said support and including a friction wheel adapted to engage the fly-wheel of the sewing machine, and means for adjustably positioning said fan to vary its axis with respect to the horizontal, said means including a hub in which the fan is journaled, a rod at right angles to the fan axis having the said hub fixed to one end thereof, and a pin in said rod adapted to engage in any one of a series of grooves formed in said support radial to said rod.

1,427,828. CARTON. JENS O. LARSEN, St. Louis, Mo. Filed Mar. 31, 1920. Serial No. 370,244. 2 Claims. (Cl. 229—14.)



2. A carton of the character described comprising a blank provided with two parallel scores running the entire length of the blank forming a body member, a plurality of

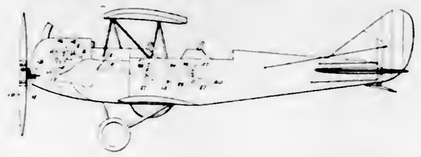
scores arranged cross-wise with the blank on which lines the blank may be folded to encase the goods to be wrapped, one edge of the blank formed with three short flaps and one long flap, and a lining of oil substance placed over the body and flaps and prongs for holding the same together, substantially as specified.

1,427,829. FLEXIBLE TRANSMITTING DEVICE. GEORGE P. LUCKEY, Dayton, Ohio. Filed Jan. 11, 1922. Serial No. 528,554. 4 Claims. (Cl. 74—39.)



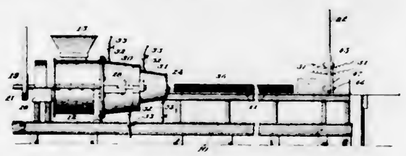
1. In a flexible transmitting device, a casing comprising longitudinally extending members, and means constraining said members against relative displacement other than relative longitudinal movement when the casing is bent.

1,427,830. SYNCHRONIZING MECHANISM FOR REVERSIBLE-PITCH PROPELLERS. ERNEST G. McCALLEY, Dayton, Ohio. Filed Oct. 11, 1921. Serial No. 506,960. 3 Claims. (Cl. 244—25.)



1. In an aircraft having an internal combustion engine provided with a throttle valve, the combination with a propeller, of mechanism for changing the angularity of the blades thereof, multiple control means for simultaneously actuating said mechanism and the throttle valve of the engine in predetermined relation, and compensating devices for permitting the manual actuation of said throttle valve toward "off" position independently of said means.

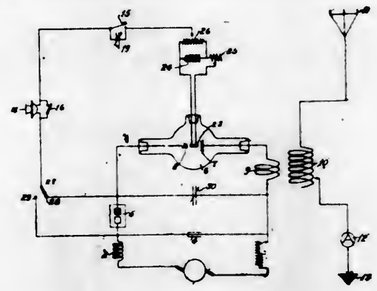
1,427,831. METHOD OF MAKING BRICKS. WILLIAM A. McCOOL, Beaver Falls, Pa. Filed Nov. 12, 1919. Serial No. 337,568. 12 Claims. (Cl. 25—156.)



1. The herein described method of making bricks, blocks, or the like from initially heated bituminous material, which consists in cooling the material to solidify the same and render it resistant and thereafter reheating the same to its critical temperature and simultaneously shaping it into the desired form.

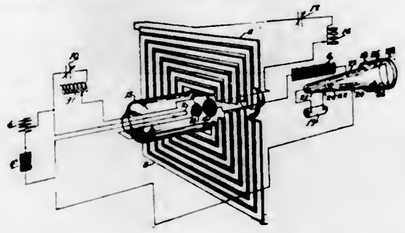
1,427,832. RADIOTELEPHONY. FREDERICK S. McCULLOUGH, Cleveland, Ohio, assignor to Glenn L. Martin, Cleveland, Ohio. Filed July 7, 1919. Serial No. 308,977. 2 Claims. (Cl. 250—6.)

1. In a system of radio telephony, a power circuit including a high-frequency spark gap and an electric arc having an anode and a cathode, and a modulating circuit including a microphone and a third electrode associated with



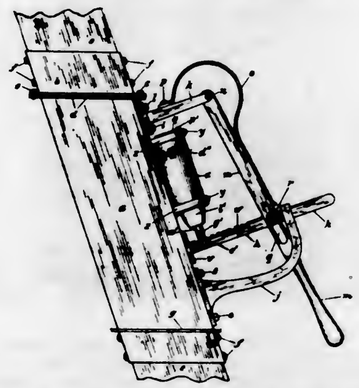
said arc, said third electrode consisting of a filament heated by a source external to the arc.

1,427,833. RADIOTELEGRAPHY. FREDERICK S. McCULLOUGH, Cleveland, Ohio, assignor to Glenn L. Martin, Cleveland, Ohio. Filed Aug. 2, 1919. Serial No. 314,954. 7 Claims. (Cl. 250—11.)



3. In a radio system, a receiving circuit comprising a vacuum tube, a filament, a plate element within said tube, and a directional receiving element surrounding said tube.

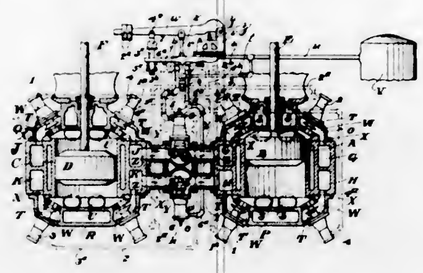
1,427,834. MILL-SPOUT GATE. FREDERICK BERNARD MALCOLM MERCER, Toronto, and CHARLES FRANKLIN BRADBURN, Tillsonburg, Ontario, Canada. Filed Sept. 12, 1919. Serial No. 323,420. 7 Claims. (Cl. 137—139.)



1. In mill spout gates, a gate valve having a stem extending therefrom, a housing for said valve, means for

operating said valve and automatic means for closing said valve coincident with the stoppage of the said mill machinery with which it is adapted to co-operate.

1,427,835. FLUID COMPRESSOR. CHESTER W. METZGAR, Easton, Pa., assignor to Ingersoll Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 4, 1921. Serial No. 489,702. 11 Claims. (Cl. 230—24.)



1. In a fluid compressor, the combination of two cylinders and pistons reciprocating therein, and means operable for utilizing a portion of the bore at one end of one cylinder as a clearance space for the other cylinder for unloading the compressor.

8. In a fluid compressor, the combination of two cylinders having clearance pockets adapted to be placed in communication with the cylinders respectively, double acting pistons reciprocating in the cylinder bores, and means operable for utilizing portions of the cylinder bores, at opposite ends of either cylinder as additional clearance spaces for corresponding ends of the other cylinder for unloading the compressor.

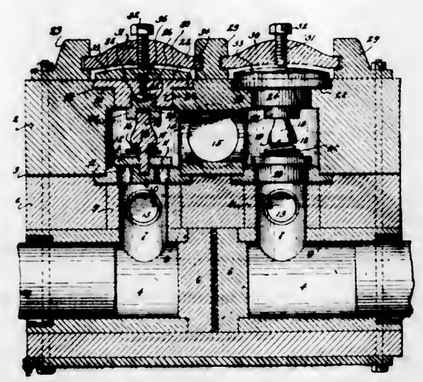
1,427,836. KEY RING. RALPH MORRIS, Stanford, Mont. Filed Apr. 20, 1921. Serial No. 462,835. 3 Claims. (Cl. 59—96.)



1. A key ring comprising a circular body having an opening with portions of said body extending to provide spaced parallel arms disposed in the plane of the body, one of said arms being bent to form an eye and the other arm bent to provide an outwardly directed hook, and a closure band having oppositely arranged openings, one of which is adapted to receive the eye and the other to removably receive the hook, one wall of said band being extended and apertured to receive a securing device.

1,427,837. PUMP VALVE. ROBERT W. MURRAY, New Lexington, Ohio. Filed Mar. 10, 1920. Serial No. 364,778. 1 Claim. (Cl. 251—144.)

In a pump of the class described, a wooden body having a fluid conducting bore formed therein, a valve seat located in the bore, a disc valve engaged normally on the seat, a stem having a reduced shank for passage through the valve disc for sliding engagement with the seat, said stem having an annular offset overhanging the valve disc, a spring encircling the shank and engaged with the offset and valve disc, a plate engaged with the body and having a bushing mounted therein, said bushing



having a pocket formed therein for slidably receiving the upper end of the valve stem, a cap plate removably mounted on the body, a wear plate interposed between the first named plate and cap late, set screws carried by the cap plate and first named plate and engaged, respectively, with the wear plate.

1,427,838. ASH TRAY. HARRY NEGBAUR, New York, N. Y., assignor to E. & J. Bass, Incorporated, a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,414. 2 Claims. (Cl. 131—51.)

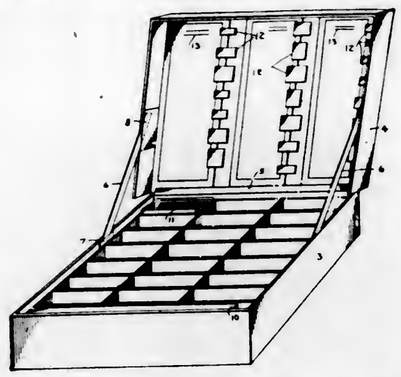


2. An ash tray having a transparent receptacle provided with a cylindrical upper portion threaded on the outside, and a threaded ring threaded onto the threaded portion of the receptacle, said ring being provided with an inwardly directed flange which covers the end of the upper portion, and with a cigar rest.

1,427,839. MERCHANDISE-DISPLAY CONTAINER. WILLIAM O. NICELEY, New York, N. Y., assignor to The E. G. Lang Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Sept. 17, 1921. Serial No. 501,403. 5 Claims. (Cl. 217—11.)

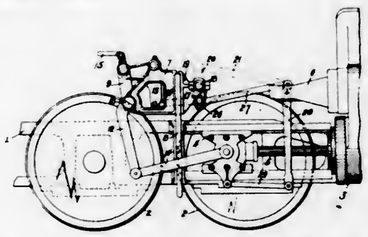
1. In a merchandise display container the combination of a large box, a group of bottomless boxes therein, envelopes in said bottomless boxes each adapted to hold a set of index tabs, a cover to said large box having a flexible hinge, flexible retaining members adapted to limit

the opening of said cover and support it in such opened position, and specimens of said tabs mounted on the in-



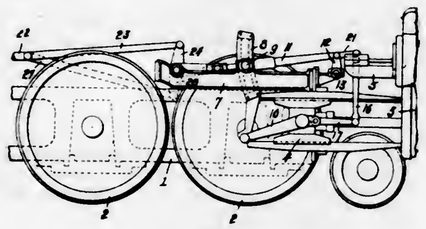
side of said cover so as to indicate the location of the same in said large box.

1,427,840. VALVE GEAR. CHARLES J. PILLIOD, Toledo, Ohio, assignor to Daniel Searles, trustee, Toledo, Ohio. Filed Feb. 10, 1921. Serial No. 443,741. 3 Claims. (Cl. 121—116.)



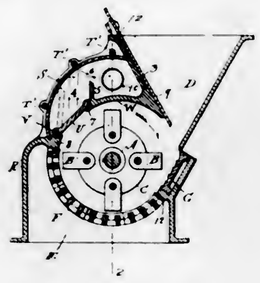
1. In a locomotive, the combination with an engine operated cross-head at each side and an engine valve at one side, of a lap and lead mechanism connected to the valve and to one cross-head, and a reversing mechanism of the radial type connected to the lap and lead mechanism and having its radius lever directly connected to and operated by the other cross-head.

1,427,841. VALVE GEAR. CHARLES J. PILLIOD, Toledo, Ohio, assignor to Daniel Searles, trustee, Toledo, Ohio. Filed Feb. 10, 1921. Serial No. 443,743. 2 Claims. (Cl. 121—116.)



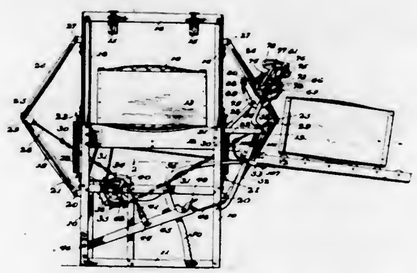
1. In a locomotive, the combination with an engine operated cross-head at each side and an engine valve at one side, of a valve gear mechanism including a reversing link connected to and operated by one cross-head and having a lap and lead means connected to the reversing link and including a combination lever of the floating type connected to the other cross-head and directly connected to the valve.

1,427,842. CRUSHER AND PULVERIZER. HAROLD M. PLAISTED, St. Louis, Mo., assignor of forty-nine one hundredths to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed July 19, 1920. Serial No. 397,424. 9 Claims. (Cl. 83—11.)



1. A crusher having a casing with a partition forming upper and lower chambers, and a rotor hammer in said lower chamber,—said partition including a swinging door, pivoted at its lower end and substantially concentric with the path of travel of said hammer.

1,427,843. BOX-PRESS STAMP. JOSEPH IRWIN POGUE, Omak, Wash. Filed Aug. 11, 1921. Serial No. 491,409. 16 Claims. (Cl. 101—43.)



1. A stamper for fruit presses comprising a frame, an actuating rod slidable through said frame, coil springs mounted on said rod and contacting with opposite sides of said frame whereby to provide a yieldable connection between the rod and frame, a stamping mechanism carried by said frame, and a tripping device engaged with said rod and having a contact shoe adapted to engage the fruit press.

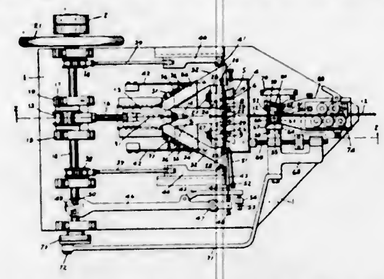
1,427,844. ABRASIVE ARTICLE. HENRY ROBERT POWER, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Nov. 17, 1919. Serial No. 338,604. 5 Claims. (Cl. 51—280.)

1. An abrasive article comprising abrasive particles and a binder containing shellac and coumarone resin.

1,427,845. NAIL MACHINE. JOHN B. PRIESTHOFF, Kokomo, Ind., assignor of one-half to George Wilken, Latonia, Ky. Filed Nov. 17, 1920. Serial No. 424,727. 7 Claims. (Cl. 10—49.)

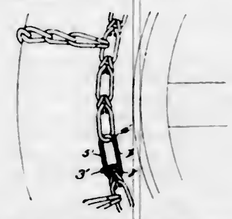
1. In a nail machine, a pair of wire gripping dies, positively driven means for engaging said dies with a wire,

a pair of cutting dies for severing the wire for forming a nail, pairs of arms pivoted together at one end carry-



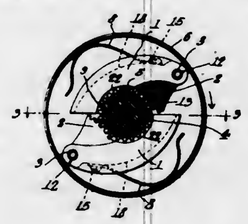
ing said cutting dies at their opposite ends, and longitudinally movable means for swinging the free ends of said arms and said cutting dies inwardly.

1,427,846. FASTENING DEVICE. RAY DALE PULVER, Canton, S. Dak. Filed Feb. 27, 1922. Serial No. 539,582. 1 Claim. (Cl. 24—237.)



A fastening device of the character described comprising a body portion having one end portion coiled upon itself and the free extremity thereof bent to provide a right angularly arranged downwardly opening keeper, the opposite end of said body portion being curved upon itself into substantial U-shaped formation and having a shank portion extending therefrom adapted for engagement in said keeper, said shank portion being offset intermediate its length whereby to provide a right-angular shoulder in proximity to said last mentioned end portion of the body portion.

1,427,847. AUTOMATIC SPARK CONTROL AND TIMING COUPLING FOR IGNITION MAGNETOS. HARLIE O. PUTT, Elkhart, Ind., assignor to The Ace Magneto Company, a Corporation of Indiana. Filed May 11, 1921. Serial No. 468,516. 8 Claims. (Cl. 264—16.)



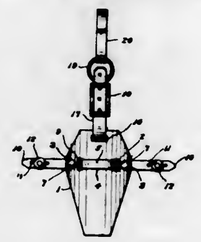
1. In an automatic spark control and timing coupling for magnetos, the combination of a casing having a hub suitably bored to be mounted on and affixed to the shaft of a magneto, oppositely positioned studs on the interior of the casing, oppositely arranged weights pivotally mounted on the aforesaid studs, each of said weights having an interiorly projecting gear segment, a pinion gear adjustably mounted on the hub and with which the aforesaid gear segments mesh, coupling elements integrally connected with said gear, said coupling elements being connectible with a coupling member on the engine shaft, a plate removably attached to the studs on which the weight members are pivotally mounted, said plate having a central opening for the magneto shafts, for the purposes described.

1,427,848. AUTO SKID-CHAIN HOOK. AUSTIN H. RANKIN, Stoy, Ill. Filed May 25, 1921. Serial No. 472,350. 3 Claims. (Cl. 24—242.)



1. In a device of the class described, a pair of members having coacting hooks; and means for connecting said members pivotally, whereby the hooks may be brought into overlapped coacting relation, and for relative longitudinal movement, whereby when relative movement between said members occurs, responsive to tension in opposite directions on said members a part of one of said members will be engaged and held directly beneath the bill of the other of said members.

1,427,849. SHEARS HOLDER. THOMAS RAYDER, Philadelphia, Pa. Filed Dec. 30, 1921. Serial No. 525,891. 1 Claim. (Cl. 24—3.)

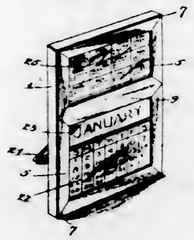


A holder and support of the character described adapted for detachable connection to the user's wearing apparel comprising a shield portion curved in a horizontal direction, said shield portion having slots adjacent its vertical edges and sockets intermediate said slots and said edges on the rear face thereof, a strap disposed in a horizontal direction through said slots across the front face of the shield and beyond the vertical edges from the rear face thereof, snap fastener heads mounted on said strap and spaced apart a greater distance than co operative sockets on the rear face of said shield whereby a bulging out of that portion of the strap on the front face of the shield results when said fastener heads and sockets are connected, a plurality of openings in the free ends of said strap, fastening means adapted to be adjustably positioned in certain of said openings to cooperate with fastening means on the user's garment and thereby secure said strap to the garment, a looped strap connected to the upper end of the aforesaid shield, a ring and spring clip looped on said strap, and said spring clip being adapted to engage over the upper edge or on the shield of the user's wearing apparel.

1,427,850. CALENDAR. HUGH T. REED, Chicago, Ill. Filed Mar. 18, 1922. Serial No. 544,745. 10 Claims. (Cl. 40—122.)

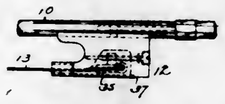
9. A calendar frame comprising a continuous strip bent transversely to form the corners of the frame and

also bent longitudinally to form inwardly extending front flanges at the edges of said frame, the portion of the strip forming said front flanges being cut with V-shaped notches where the corners of the frame come in order that the ends of said flanges may fit together in the



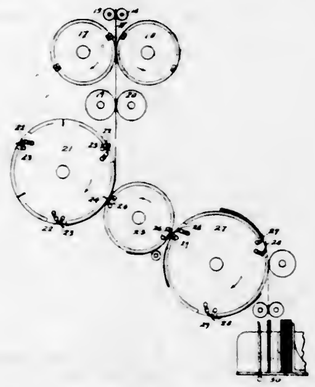
same plane, the flanges at opposite edges of the frame being also cut with V-shaped notches, and a partition having a front flange with pointed ends to fit said latter notches, said partition also having a rearwardly extending portion dividing the frame into separate pockets.

1,427,851. BOW FOR MUSICAL INSTRUMENTS. CHARLES D. RIGG, Altoona, Pa. Filed Nov. 24, 1920. Serial No. 426,229. 6 Claims. (Cl. 84—282.)



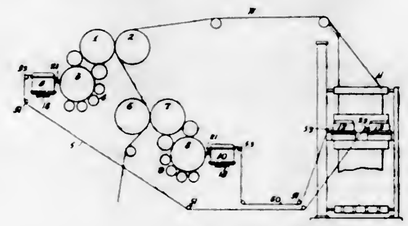
2. A detachable and replaceable bow string construction including in combination with the bow having tip and frog sockets, a bow string having a tip clamp at one end and a frog clamp at the other, said frog clamp having relatively compressible jaws for gripping the frog end of the string, and one of said jaws carrying a nut element, a slide for covering the frog socket and constituting a wall against which one of the jaws of the frog clamp impinges, and a screw for engaging with the nut element to shift the clamp longitudinally in the socket.

1,427,852. SHEET DELIVERY. OSCAR ROESEN, Brooklyn, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Nov. 7, 1918. Serial No. 261,453. 9 Claims. (Cl. 270—47.)



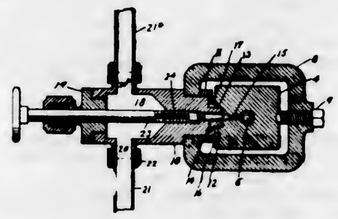
1. In a delivery for handling light sheets, the combination of means for forwarding single sheets, a cylinder to which the sheets are forwarded capacitated to fold and forward single sheets with one fold or fold and forward a plurality of collected sheets, a second cylinder cooperating with the first cylinder and capacitated to superpose a plurality of single folded sheets to form a pack or bunch, or to deliver directly a folded collected product, and a stacker delivery to which the packs are delivered side by side.

1,427,853. INKING MECHANISM FOR PRINTING MACHINES. OSCAR ROESEN, New York, N. Y., assignor to R. HOE & Co., New York, N. Y., a Corporation of New York. Filed Oct. 13, 1919. Serial No. 330,225. 24 Claims. (Cl. 101—351.)



1. In an inking mechanism, the combination of a plurality of separate ink delivery conduits for delivering an independent supply of ink to different columns or sections of the form, a plurality of pumps one for supplying each conduit with ink, a controller located at a point remote from the pumps, and mechanical connections from the controller to the pumps for regulating the ink delivered by them.

1,427,854. VALVE FOR HIGH-PRESSURE GAS REGULATION. CLARENCE B. ROGERS, Seattle, Wash. Filed July 31, 1919. Serial No. 314,573. 5 Claims. (Cl. 277—67.)

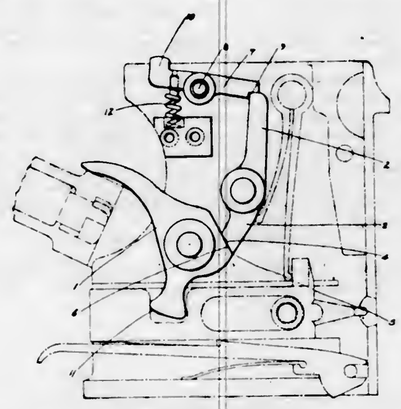


1. The combination, with an oxygen gas container having a head provided with a gas duct and a valve for closing said duct, of a member mounted on said head and having a mixing chamber therein and pipes for connection with an illuminating gas supply and with a blow pipe respectively communicating with said mixing chamber, said member having a duct communicating with the duct in said head and with said mixing chamber, and a regulating valve passing through said mixing chamber in the path of the flow of the illuminating gas therethrough and tapped into said duct for regulating the volume of the oxygen gas delivered through said duct to said chamber.

1,427,855. LOCK MECHANISM FOR MACHINE GUNS. HERBERT O. RUSSELL, Los Angeles, Calif., and CHARLES L. PAULUS, Dayton, Ohio. Filed June 9, 1922. Serial No. 567,074. 3 Claims. (Cl. 89—27.)

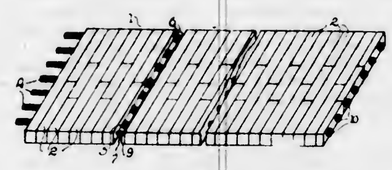
3. In lock mechanism for machine guns, the combination of a firing pin, a tumbler for said firing pin having

a cam face, a trigger having a portion bearing against said cam face, and a trigger holding and releasing lever having a positive engagement with said trigger and having a projection for cooperation with the trigger motor



of an electrical synchronizing gear, the contacting faces of the tumbler and trigger being such that the tumbler may cam the trigger out of holding engagement therewith when the trigger is released by said lever.

1,427,856. POWER-TRANSMISSION BELT. ARNOLD O. RUTZ, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 7, 1918. Serial No. 257,092. 4 Claims. (Cl. 74—62.)



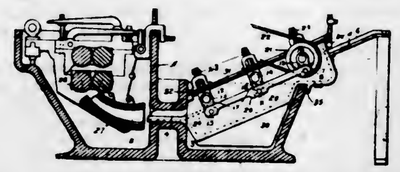
1. A belt having coiled tension springs extending through the belt from end to end, and means for joining opposed ends of the belt together, comprising bent over coils on the ends of the springs and a connector of pliable material threaded through said bent over ends.

1,427,857. TOILET IMPLEMENT. HENRY S. SATTERLEE, New York, N. Y. Filed Nov. 10, 1921. Serial No. 514,167. 7 Claims. (Cl. 132—92.)



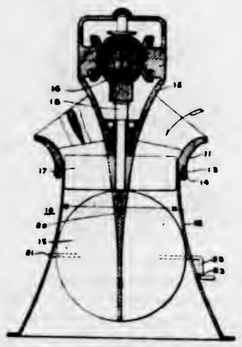
4. In an article of the class described, a recessed handle, a screw-threaded apertured member extending through the walls of said recess, an apertured cap adapted to cover the end of said recess and extending downwardly thereon to prevent movement of said member and means passing through the aperture in the cap and engaging the aperture of the member.

1,427,858. TINNING APPARATUS. JOHN E. SCHLIEPER, Pittsburgh, Pa. Filed May 29, 1920. Serial No. 385,114. 5 Claims. (Cl. 91—59.2.)



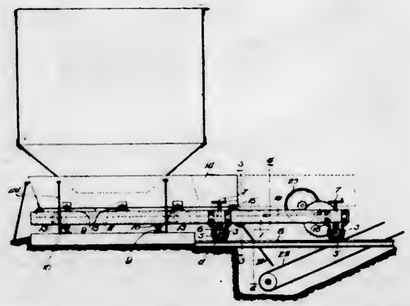
1. In a tinning apparatus, the combination of a vessel adapted to contain tinning material, of a sheet feeding mechanism, comprising a plurality of sets of rolls located in said vessel, the bearing ends of the driven roll of each set having a crank mounted thereon, the said cranks being connected, whereby the said driven rolls are rotated in the same direction, to feed the sheets or plates through the tinning bath.

1,427,859. PROPELLER BLOWER. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 3, 1921. Serial No. 474,840. 11 Claims. (Cl. 230—11.)



1. In a blower having a diverging casing portion, a propeller operating in the casing and movable fluid-directing vanes in the casing said vanes being contiguous to the propeller and adapted to be moved to close the blower casing.

1,427,860. CONVEYING APPARATUS. FRED E. SCHWALB, Chicago, Ill. Filed Sept. 18, 1919. Serial No. 324,573. 10 Claims. (Cl. 198—56.)

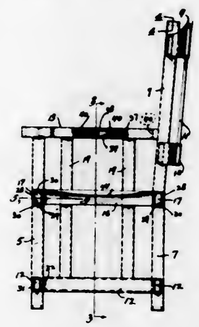


1. A portable conveying apparatus comprising a body frame, a reciprocating feeder supported by said body

frame, means for supporting said body frame to extend transversely of a car track to enable said feeder to receive the discharge from a car, and mechanism adjacent the outer end of said frame to reciprocate the feeder in a horizontal plane to produce a shifting movement of the materials thereon, with a discharge space between said feeder and said mechanism.

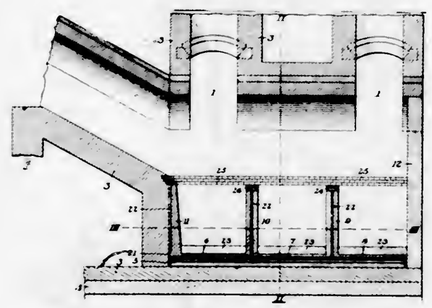
10. A portable conveying apparatus comprising a body frame, a reciprocating feeder supported by said body frame, mechanism to reciprocate the feeder to produce a shifting movement of the materials thereon, and means whereby said body frame is readily movable from one place to another, one end portion of said body frame and reciprocating feeder being adapted to overhang the rails of a car track, so as to extend below a car which discharges from the bottom thereof, in combination with means for lowering the body frame onto said rails.

1,427,861. METALLIC FURNITURE. MORAL O. SHRINER, Niagara Falls, N. Y., assignor to Salina A. Shriner, Niagara Falls, N. Y. Filed Mar. 31, 1922. Serial No. 548,315. 5 Claims. (Cl. 155—194.)



1. A metallic chair comprising front legs and rear legs, seat supports connecting the legs, a seat top disposed on the seat supports, the legs and the seat supports being each formed of two pieces of material connected by means of lapped joints, and means for completely closing the joints and securing the parts together, without bolts, rivets, or the like.

1,427,862. SLAG POCKET. ALBERT W. SMITH, Youngstown, Ohio. Filed Oct. 14, 1920. Serial No. 416,784. 5 Claims. (Cl. 263—45.)

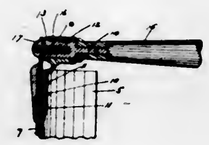


1. A slag pocket for open hearth and other furnaces, comprising a plurality of receptacles, a compartment receiving said receptacles, said compartment gradually increasing in width towards the exit end thereof, substantially as described.

1,427,863. PROCESS FOR THE PREPARATION OF COMPOUNDS OF ISATIN-A-ARYLIDES WITH SULPHUR DIOXIDE. CARL STEPHAN, Altona-Hamburg, Germany. Filed Aug. 24, 1921. Serial No. 494,876. 4 Claims. (Cl. 260—47.)

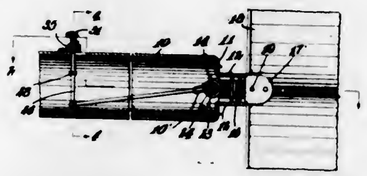
1. A method of producing sulphite compounds of isatin-alpha-arylides which consists in causing the acid mixtures produced by the reaction of isatin-alpha-arylides and sulphuric acid to react with a basic sulphite compound adapted to neutralize said sulphuric acid, said neutralization being caused to rapidly proceed until the sulphuric acid has become substantially neutralized before any substantial decomposition of said sulphite compounds can occur.

1,427,864. SAFETY RAZOR. THOMAS W. STEWART, South Sioux City, Nebr. Filed Nov. 2, 1920. Serial No. 421,262. 1 Claim. (Cl. 17—11.)



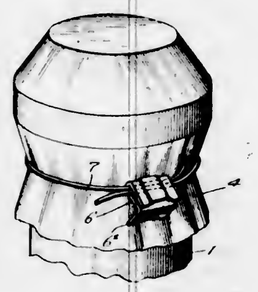
A device of the class described comprising an elongated rigid guard plate curved longitudinally in a crescent shape, the end portions of the plate being overturned, a sharp-edged blade resting against the face of the plate and engaged by said overturned end portions, and a handle and securing means, including a clamp member engaging the intermediate portion of the exposed face of the blade, a bearing member carried by the plate, a handle, a nut fixed on the hadle and rotatable within the bearing member, and a bolt projecting from the clamping member, and threaded into the nut.

1,427,865. DIGGING IMPLEMENT. JOSEPH SZABO, New Castle, Pa. Filed Nov. 22, 1921. Serial No. 516,965. 3 Claims. (Cl. 306—12.)



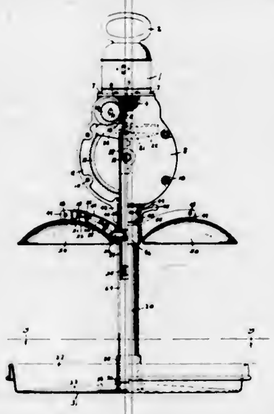
1. A digging implement comprising a hollow handle, a blade pivoted on one end thereof, a worm gear fixed to said blade coaxially thereto, a worm pinion in said handle engaging said worm gear, a pair of swingable arms in said handle having the worm pinion mounted on their free ends, a lever fulcrumed in the handle and having one end projecting exteriorly therefrom, link means connecting the opposite end of said lever to said gear pinion, and locking means applied to the outer end of said lever.

1,427,866. FASTENING CLIP. OLOF N. TEVANDER, Chicago, Ill. Filed Dec. 23, 1920. Serial No. 432,671. 1 Claim. (Cl. 24—28.)



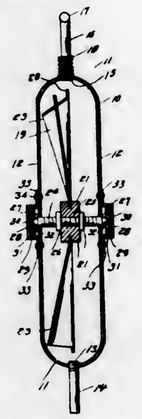
A U-shaped fastening clip comprising arms adapted to be squeezed into clamping engagement with overlapping ends of a tie element, one of said arms terminating in an outwardly directed lateral extension providing means for holding the clip while the tie element is passed between the arms thereof and while said arms are subsequently forced into clamping engagement with the tie element.

1,427,867. WASHING MACHINE. THOMAS O. THEOBALD, Detroit, Mich. Filed June 4, 1921. Serial No. 474,989. 9 Claims. (Cl. 259—123.)



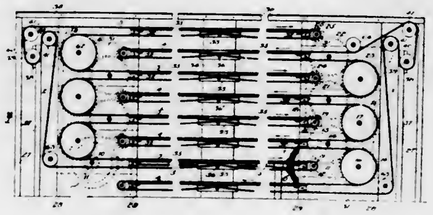
1. In a washing machine, the combination of a base, a pedestal extending upward therefrom, a gear case mounted on the upper end of the pedestal, a motor on the gear case, a cross head slidable on the pedestal, a pair of vacuum-cups mounted on the cross head, and means mounted in the gear case and pedestal operatively connecting the motor and cross head.

1,427,868. DAMPER. GILBERT H. TURNER, Port Chester, N. Y. Filed Dec. 30, 1921. Serial No. 525,828. 6 Claims. (Cl. 126—292.)



1. A damper consisting of a draft-operable wheel for disposition in the draft line, a frame, means to mount the wheel on and for rotation relatively to said frame, and means to adjustably mount said frame.

1,427,869. PROOFER BELT. FRANK H. VAN HOUTEN, Beacon, N. Y., assignor to Dutchess Tool Company, Beacon, N. Y., a Corporation of New York. Filed Apr. 17, 1918. Serial No. 229,125. 12 Claims. (Cl. 198—84.)



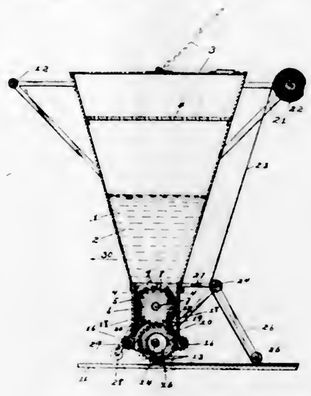
1. In a proofing apparatus, the combination of two endless belts, each consisting of a plurality of parallel reaches, certain of the reaches of either belt being parallel to, spaced from and overlapping the adjacent reaches of the other belt, and yieldable means for holding each of said belts taut.

1,427,870. HERMETICAL SEAL. WILLIAM L. VAN KEUREN, North Bergen, N. J., assignor to General Electric Company, a Corporation of New York. Filed June 15, 1918. Serial No. 240,180. 7 Claims. (Cl. 176—36.)



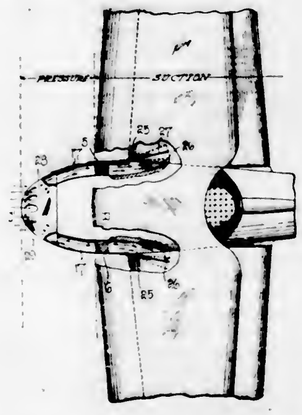
4. An incandescent lamp having an oxidizable leading-in conductor in fused permanent hermetical juncture with a body of lead borate fused into the glass of the lamp and proportioned to cause substantially no change in the coefficient of the glass when fused to it.

1,427,871. ROOFING MACHINE. GEORGE E. VAN VORST and JOHN VAN VORST, Scotia, N. Y. Filed Mar. 19, 1920. Serial No. 367,204. 15 Claims. (Cl. 216—6.)



1. In a machine of the class described and in combination, a tank having at its lower end an outlet-throat; a toothed feed roll rotatively mounted within said throat; and a toothed distributing-roll rotatively mounted under said feed-roll with which it is adapted to mesh to drive the feed-roll, said distributing-roll being adapted to roll upon, and distribute liquid contents of said tank to, a surface over which said tank is propelled.

1,427,872. AIRPLANE-RADIATOR MOUNTING. ALFRED V. VERVILLE, Detroit, Mich. Filed Aug. 23, 1919. Serial No. 319,468. 3 Claims. (Cl. 244—31.)



1. In combination with a symmetrical aircraft fuselage, a radiator of symmetrical formation having its axis of symmetry coincident with the axis of symmetry of the fuselage, said radiator being located between the areas of high pressure and suction of the fuselage while in flight and exposed to an air stream, and also having its peripheral surface flush with the corresponding surface of the fuselage.
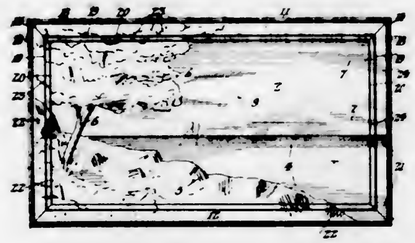
1,427,873. TIP-SECURING MEANS FOR BILLIARD CUES. JOSEPH VETTER, Toledo, Ohio. Filed May 21, 1921. Serial No. 471,469. 1 Claim. (Cl. 46—9.)

A billiard cue having a socket in its tip end, a tip member, a stem projecting from the tip member for frictional engagement within the socket, said stem being formed in cylindrical shape from sheet metal with side edges of the portion thereof adapted to be projected into



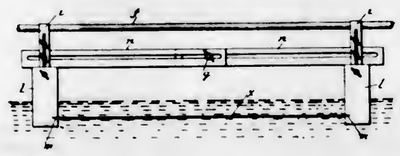
the socket spaced to permit a lateral contraction of the stem, the inner end of the stem being annularly enlarged and formed with spurs for projecting into and firmly engaging with the tip member.

1,427,874. PICTURE FRAME. PAUL L. WEAVER, Allentown, Pa. Filed Nov. 30, 1921. Serial No. 518,975. 3 Claims. (Cl. 40—152.)



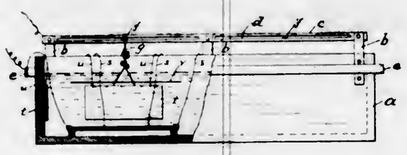
3. The combination with a panel, having pictorial elements on its surface; of a frame including members forming a recess holding said panels; shadow forming elements on said frame, including molding projections; and pictorial elements extending on said frame members, over said shadow forming elements, and respectively complementary to said pictorial elements on said panel.

1,427,875. MEANS FOR SUSPENDING PLATES DURING TREATMENT BY ELECTROLYSIS. RAYMOND M. WEEKS, Narberth, Pa., assignor to Weeks Photo-Engraving Company, Inc. Philadelphia Pa., a Corporation of Pennsylvania. Filed Feb. 5, 1921. Serial No. 442,637. 11 Claims. (Cl. 204—5.)



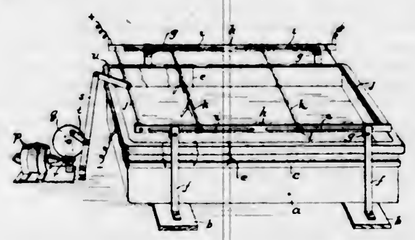
1. Means for suspending a plate to be etched in a bath of electrolyte, comprising an electrode adapted to engage an edge of the plate and means adapted to support the electrode.

1,427,876. APPARATUS FOR ELECTRICAL ETCHING. RAYMOND M. WEEKS, Narberth, Pa., assignor to Weeks Photo-Engraving Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 2, 1921. Serial No. 457,935. 18 Claims. (Cl. 204—1.)



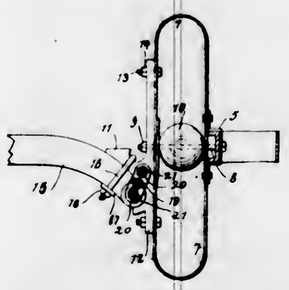
1. Apparatus for electrical etching comprising an electrolytic bath, means for the support therein of a plate to be etched, said plate being in electrical connection with the positive pole of a source of current and forming an anode, and a cathode composed of a material resistant to action by the electrolyte and which will minimize the formation of hydrogen gas.

1,427,877. PROCESS AND APPARATUS FOR ELECTRICAL ETCHING. RAYMOND M. WEEKS, Narberth, Pa., assignor to Weeks Photo-Engraving Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 25, 1921. Serial No. 464,320. 12 Claims. (Cl. 204—1.)



1. The method of electrical etching which comprises immersing a plate to be etched in a bath of electrolyte passing a current of electricity from said plate to a cathode, through said bath, and imparting movement to said plate in the plane of its face, while the current is active.

1,427,878. AUTOMOBILE FENDER. CHARLES WEINBERG, Brooklyn, N. Y. Filed Dec. 31, 1920. Serial No. 434,270. 8 Claims. (Cl. 293—55.)



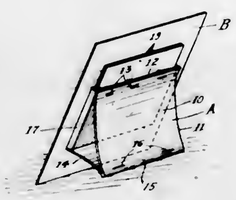
8. An automobile buffer comprising a non-resilient channeled buffer bar, a resilient cushion comprising spring metal bows extended across the face of said bar, slidably adjustable, vertically extended guard loops of resilient metal located rearwardly on said bar; said loops having respectively cushion means between its upright members, and brackets fixed rearwardly of said loops, said brackets respectively embodying an upright forward part and a rearwardly extended curved base part having a socket for engaging the end of an automobile chassis side bar, and strap and staple means for fixing said brackets to the automobile chassis side bars.

1,427,879. WASTE BASKET. MILTON WEINMAN, Chicago, Ill. Filed Aug. 23, 1920. Serial No. 405,247. 1 Claim. (Cl. 220—73.)



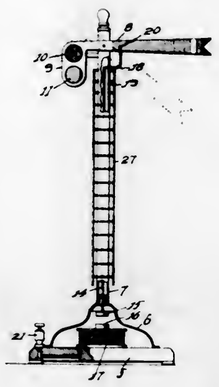
A waste basket wider at the top than at the bottom, the upper edge thereof being provided with an outwardly facing recess, and a resilient furniture protecting buffer seating in said recess and extending outwardly therefrom, said buffer comprising a yieldingly resilient body portion and a non-extensible core.

1,427,880. COLLAPSIBLE EASEL. PAUL H. WELCKER, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed June 23, 1921. Serial No. 479,807. 1 Claim. (Cl. 40—150.)



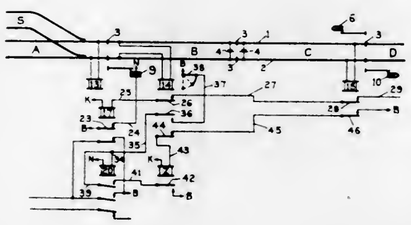
A collapsible support, including a display face, a pocket secured to the back of said display face, a bracket member secured on one end to said pocket comprising a base member and a tongue extending from the free edge of said body member, means for clamping said tongue near the free end of said bracket member to cause said tongue to normally lie against the body of said bracket with the free edge extending toward the attached end of said bracket, whereby when the free edge of said tongue is inserted beneath the edge of said pocket the body of said bracket is spaced from said face member in a manner to form a support for holding said face member in an inclined position.

1,427,881. ELECTRICALLY-OPERATED SEMAPHORE TOY. HARRY O. WESSEL, St. Louis, Mo. Filed Sept. 14, 1921. Serial No. 500,532. 2 Claims. (Cl. 246—128.)



1. A toy of the class described comprising a hollow post, a semaphore blade carried thereon, a cap supporting the post, a magnet located in the cap, a rod located in the post and attached to the semaphore blade, a disc attached to the lower end of the rod separated from and in alignment with the core of the magnet, said magnet being energized by closing a circuit by the movement of toy trains on the rails thereby automatically operating the semaphore a ladder fastened to the post and base, and a lantern positioned on the post back of the semaphore blade for displaying different colored light signals, substantially as specified.

1,427,882. SIGNALING SYSTEM FOR SINGLE-TRACK ROADS. SEDGWICK N. WIGHT, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Dec. 10, 1920. Serial No. 429,702. 12 Claims. (Cl. 246—33.)



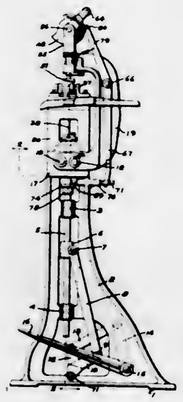
1. In a signal system for single track railroads having two sets of signals at intervals along a stretch of single track between two passing sidings and governing traffic in opposite directions, stick relays associated with said signals and automatically energized by a train moving in the direction of traffic governed thereby, a line circuit for each signal including a back contact of the stick relay associated with the next opposing signal, a stick circuit for each relay controlled by the line circuit of the corresponding signal, and means associated with each of the starting signals at the ends of said stretch for causing deenergization of the corresponding stick relay when a train moves by that signal opposite the direction of traffic governed thereby.

1,427,883. ELECTRIC-LAMP LOCK. HAROLD E. WILLIAMS, Washington, D. C. Filed Oct. 17, 1918. Serial No. 258,636. 1 Claim. (Cl. 176—31.)



The combination of a lamp socket and a lamp having relatively engaging threaded shells, one of which shells is freely revoluble with respect to the support thereof and is provided at one edge with selectively spaced recesses, and a separable wrench having a portion movable into the open end of socket and provided with lugs selectively spaced to coincide with the spacing of the recesses and arranged to enter the latter, said wrench being made of spring material and conforming to the contour of a portion of the lamp whereby said wrench in operative position will be tightly clamped to said lamp when the latter is grasped and thereby prevent revoluble movement of the movable shell with respect to its support when said lamp is screwed into said lamp socket.

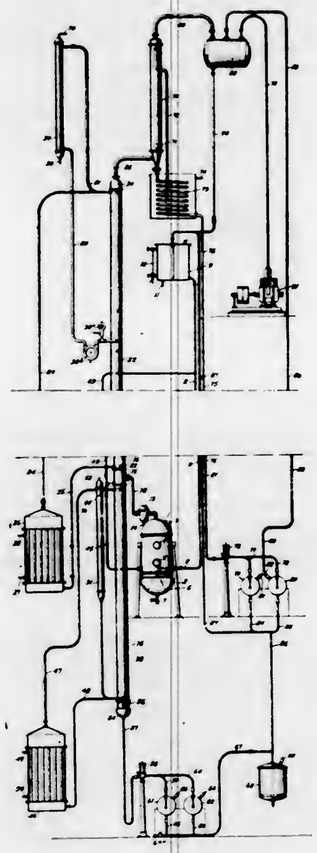
1,427,884. HEEL-BUILDING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 19, 1919. Serial No. 311,968. 12 Claims. (Cl. 1—33.)



1. In a heel building machine, the combination of a heel mold, an opposed presser member, means for relatively moving the mold and presser member to apply pressure to a pile of heel lifts assembled in the mold, means for securing the pile of lifts together, and means for preventing operation of the securing means when the pile of heel lifts, while under pressure, does not conform to a predetermined standard.

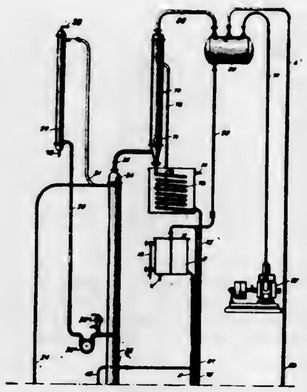
9. In a heel building machine, the combination of a lift support, breast and side fingers for confining a pile of heel lifts, a presser, means for operating the presser to exert pressure on the pile of lifts held between the fingers, and means permitting the lift support to be moved and secured in lift assembling position with the breast finger facing in different directions relative to the front of the machine.

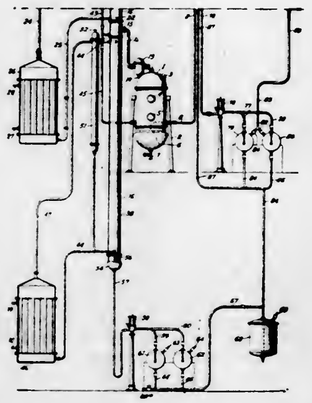
1,427,885. DISTILLING PROCESS. ERNEST JEROME WINTER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 13, 1918. Serial No. 239,753. 17 Claims. (Cl. 195—15.)



1. A process of rectifying alcohol comprising distilling of aqueous alcohol, passing the vapors through long tubes maintained under a vacuum and at a temperature below the boiling point of absolute alcohol corresponding to the low pressure used, and condensing the alcohol issuing from the tops of the tubes.

1,427,886. DISTILLING APPARATUS. ERNEST JEROME WINTER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 13, 1918. Serial No. 239,754. 27 Claims. (Cl. 195—13.)



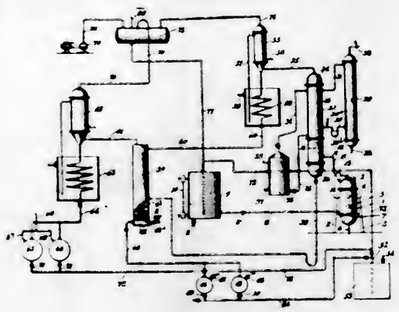


1. An apparatus comprising the combination of a still, a rectifier containing long tubes, means for keeping the latter at a predetermined temperature, a condenser and a vacuum pump connected thereto.

1,427,887. APPARATUS FOR DISTILLING. ERNEST JEROME WINTER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 13, 1918. Serial No. 239,755. 30 Claims. (Cl. 195—13.)

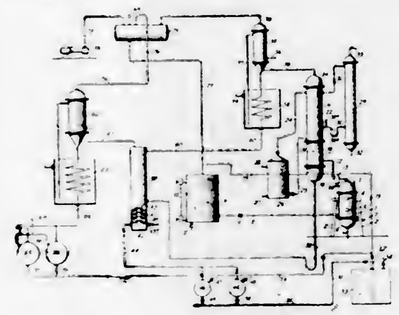
30. The combination with a source of mixed vapors of separating means comprising a tortuous path through which vapors may be evacuated, and an unobstructed path through which a condensate may descend, and also

means, external to said separating means, for the refractionation of the resultant products in interconnected



regions of a column rectifier whose vapor outlet is maintained under a reduced pressure.

1,427,888. PROCESS FOR DISTILLING. ERNEST JEROME WINTER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 13, 1918. Serial No. 239,756. 12 Claims. (Cl. 195—6.)



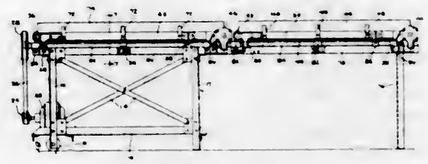
5. The process which comprises distilling alcohol having a strength of 20% or lower, bringing into contact relatively moving bodies of mixed liquid alcohol and water condensed from the distilled vapors and said vapors under decreased pressure, then removing the liquids, treating them in the lower portion of a column rectifier, condensing the mixed vapors and treating them in the upper portion of the column rectifier.

1,427,889. STAKE. JOSEPH H. WITTMANN, Kansas City, Mo. Filed May 5, 1919. Serial No. 294,856. Renewed July 17, 1922. Serial No. 575,636. 1 Claim. (Cl. 189—90.)



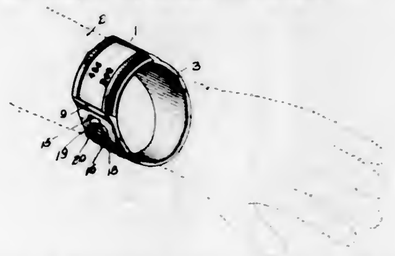
A stake comprising a piece of sheet metal bent back upon itself to form diverging wings, the wings being crimped together at the upper portion of the stake and having a notch in one face thereof, and a loop connected to the crimped portion of the stake.

1,427,890. SECTIONAL CONVEYER. LAWRENCE G. ZESBAUGH, Minneapolis, Minn., assignor to Washburn-Crosby Company, Minneapolis, Minn. Filed Apr. 21, 1921. Serial No. 463,276. 3 Claims. (Cl. 198—92.)



1. A conveyer comprising a plurality of sections, supporting legs for both ends of one of said sections, a transverse support connecting the legs at one end of said section, a motor mounted on said support, supporting legs for the rear end only of the other of said sections, means for securing the sections together, longitudinal shafts mounted on the sections respectively, means whereby said shafts are coupled when said sections are secured together, driving connections between said motor and the shaft carried by the first mentioned section, endless conveyer belts carried by said sections, and means for driving said belts from said shafts.

1,427,891. IDENTIFICATION HOLDER. CHARLES E. ZIEGLER, Pittsburgh, Pa. Filed Oct. 29, 1921. Serial No. 511,502. 13 Claims. (Cl. 40—21.)



2. An identification holder comprising a body portion having pairs of oppositely disposed inwardly projecting lateral flanges forming compartments therein, the upper pair of flanges terminating short of each other so as to provide a space therebetween, an identification label slidingly fitting the upper compartment, an elastic strip disposed in the lower compartment projecting beyond the end of the body and provided with enlargements abutting the ends of the upper compartment to retain the label therein.

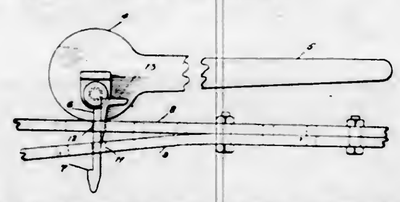
1,427,892. GEAR WHEEL. EDWARD L. AIKEN, East Orange, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Mar. 11, 1921. Serial No. 451,538. 2 Claims. (Cl. 74—28.)



1. A gear wheel having a metallic internally flanged, toothed rim with openings therein, a metallic hub having an outwardly extending flange and in the openings thereof, and also about a portion of the hub and the

outer periphery of its flange, and further means on the hub flange adapted to be gripped by the moulding material to prevent rotary movement of the flange and hub with respect to the rim.

1,427,893. PLATE-TIGHTENING DEVICE. HARRY D. BABCOCK, Tacoma, Wash. Filed Sept. 18, 1919. Serial No. 324,691. 1 Claim. (Cl. 29—84.)



A device for drawing plates together comprising a pin having a one-sided head adapted to be passed through the holes in the plates, a wedge adapted to be inserted alongside of the stem of said pin, and a lever provided with a rounded end adapted to engage one of the plates, said pin being pivoted to said lever eccentrically of the curve of the head.

1,427,894. AUTOMOBILE BODY CONSTRUCTION. JAMES L. BANCROFT, Cleveland, Ohio, assignor to The Ohio Body & Blower Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 9, 1920. Serial No. 387,545. 2 Claims. (Cl. 296—30.)



1. An automobile body construction, the combination of a frame, a panel applied to the side of the frame, means for securing the panel to the frame and a molding engaged over the edge of the frame and having a flange overlying the adjacent edge portion of the panel and concealing said securing means.

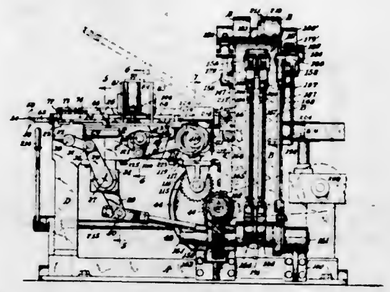
1,427,895. FUSE PLUG. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 2, 1919. Serial No. 301,265. 8 Claims. (Cl. 200—130.)



1. A removable fuse element comprising an apertured insulating disc, a transparent sheet extending across the aperture in said disc, and a fuse strip secured to said disc and extending parallel to said sheet in position to be seen through it.

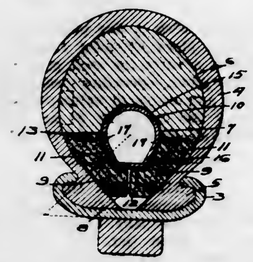
1,427,896. CAN-BODY-FORMING MACHINE. JULIUS BARNINGER, Fairfield, Conn., assignor to The MAX AMS Machine Company, New York, N. Y., a Corporation of New York. Filed Dec. 20, 1919. Serial No. 346,366. 68 Claims. (Cl. 113—11.)

1. In a machine of the character described, the combination, with a series of mechanisms for successively forming can-bodies from flat sheet-metal blanks, said series comprising preliminary notching and edging mechanisms and final forming and seam-compressing mechanisms, of means for advancing said blanks through the machine, bringing each thereof to a condition of rest at each operating station, in turn, means for checking rear-



ward movement of each blank when in proper position at each of said stations, and connected means at each of the preliminary notching and edging stations and having common actuating means for returning into engagement with said checking means such blanks as have been carried slightly beyond the same.

1,427,897. COMBINED CUSHION AND PNEUMATIC TIRE. NELSON W. FINCH, Chicago, Ill. Filed Sept. 2, 1921. Serial No. 497,954. 1 Claim. (Cl. 152—10.)

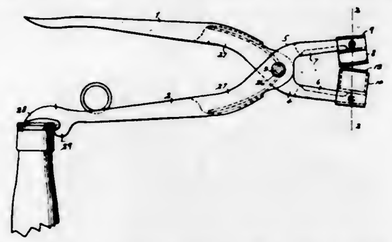


In an automobile tire, a casing, a filler located in the casing, the filler having a tubular chamber located in proximity to the rim side of the filler, the filler being slitted between the one side of the filler and the tubular chamber to form lips extending around the sides of the tubular chamber and between the tubular chamber and the rim side of the filler, the tubular chamber having three planular sides, two of the sides located between the inturned edges of the rim and tubular chamber, the front side located between the said two sides, a flap extending over the said three sides, a light weight net of fine mesh located on the surface of the tubular chamber, and an elastic tubular member located within the tubular chamber and having a means for retaining air under pressure within the tubular member, the filler formed of a heavy and a lighter rubber composition, the heavy composition being located within the lips to increase their rigidity, and the lighter composition located in the outer portion of the filler to permit expansion of the circular portion of the chamber.

1,427,898. HAND IMPLEMENT. BENJAMIN HIMELFARB, Houston, Tex. Filed June 20, 1918. Serial No. 242,619. 1 Claim. (Cl. 146—3.)

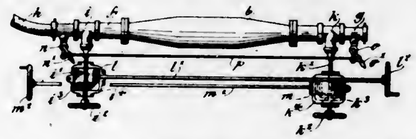
A device of the character described including a pair of handles pivotally connected together and extended one

way to form grips, and the other way to form cooperating jaws, a receptacle carried by one jaw and provided to receive objects, the opposite walls of said receptacle hav-



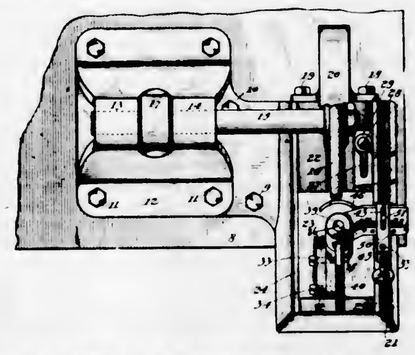
ing aligned blade receiving slots, and a blade carried by the other jaw and provided to work through said slots and sever the object in said receptacle.

1,427,899. DUAL WATER CONTROL FOR FIRE-ENGINE PUMP. ALBERT B. HOUSE, Brooklyn, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed July 8, 1919. Serial No. 309,488. 7 Claims. (Cl. 169—24.)



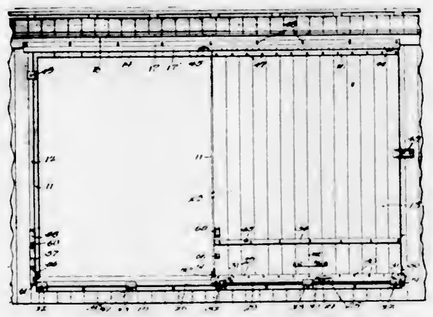
1. In combination with a fire pump having a water inlet, of discharge pipes extended from the pump in opposite directions, a valve for each pipe near the ends remotest from the pump, operating means adjacent each valve, controllers adjacent said valves, and means operatively connecting the controller of an adjacent valve with the operating means of a remote valve.

1,427,900. MACHINE FOR GRINDING KNIVES. ARTHUR HUGHES, Hoopeston, Ill., assignor to Sprague Canning Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 28, 1918. Serial No. 259,897. 3 Claims. (Cl. 51—218.)



1. In a device of the character described, in combination a base; an abrasion means rotatably mounted on said base; a slidable plate associated with said base and adapted to be moved toward and away from said abrasion means, a rotatable arm; a mounting post secured to said plate for mounting said rotatable arm; positioning means associated with said arm for definitely locating the knife in a determined position on said arm, and adjustable clamping means for clamping the knife to said arm in this position; and an operating handle associated with said arm, whereby it may be rotated about said post to apply the cutting edge of the knife to said abraison means along the line of curvature of a determined arc.

1,427,901. CAR DOOR. FRANK JAGER, Chicago, Ill. Filed Sept. 4, 1919. Serial No. 321,619. 4 Claims. (Cl. 20—22.)



4. The combination with an upstanding door having its lower edge longitudinally channeled, of a flat substantially horizontal track wider than the thickness of the door for said lower edge, means for guiding the upper portion of the door, and balls of uniform diameter positioned in the channel and bearing upon the track; said channel being of less depth and greater width than the diameter of the balls, and a floating spacing member for said balls interposed in said channel to have a rolling contact with said track.

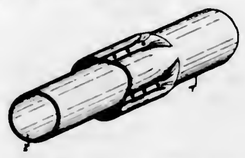
1,427,902. GRAPE JUICE. GRACE L. JOHNSTON, Brooklyn, N. Y. Filed July 26, 1921. Serial No. 487,805. 12 Claims. (Cl. 99—11.)

1. A grape juice product comprising concentrated grape juice having a low water content relative to normal grape juice and a stabilizing agent.

1,427,903. GRAPE-JUICE PRODUCT. GRACE L. JOHNSTON, Brooklyn, N. Y. Filed July 26, 1921. Serial No. 487,806. 19 Claims. (Cl. 99—11.)

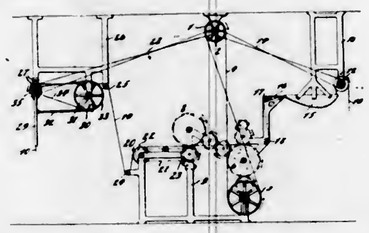
2. A grape juice product comprising grape juice, a stabilizing ingredient and a large proportion of water in which the flavor and color of the grape juice remain unchanged in kind.

1,427,904. METHOD OF MAKING HOLLOW CONSTRUCTION MEMBERS. HUGO JUNKERS, Dessau, Germany. Filed June 28, 1920. Serial No. 392,586. 5 Claims. (Cl. 29—148.2.)



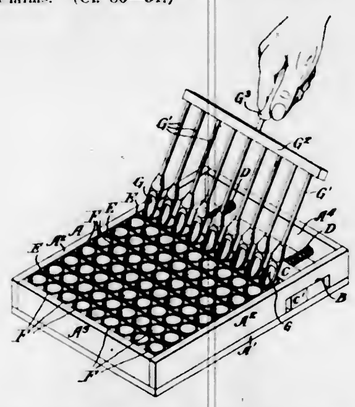
1. The method of connecting two hollow construction members of different diameters, which consists in deforming one of said members at the point of connection in such a manner that it contacts with the other in plurality of flattened portions and rigidly connecting the members at the said portions.

1,427,905. BAG-PRINTING MECHANISM. FRANK LOMBARDO, Brooklyn, N. Y., assignor to Percy Kent Company, a Corporation of New York. Filed July 26, 1920. Serial No. 399,067. 4 Claims. (Cl. 270—21.)



1. A bag printing machine comprising two rotary printing couples spaced apart substantially the length of a bag section and arranged to print upon opposite sides of a web, the periphery of the printing cylinder of each couple being substantially equal to the length of a bag section and the co-operative impression cylinder having a diameter twice that of the printing cylinder and having an impression surface for no more than half of its circumference, and means for feeding a web through the couples, whereby the couples print upon opposite sides of alternate bag sections of the web.

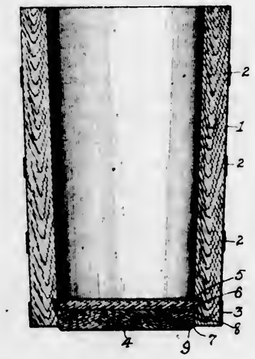
1,427,906. METHOD AND APPARATUS FOR CHARGING TOY TORPEDOES. CAMILLO MACCHIA, Ardmore, Pa., assignor to The United States Fire Works Manufacturing Company, Cardington, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1921. Serial No. 458,893. 4 Claims. (Cl. 86—31.)



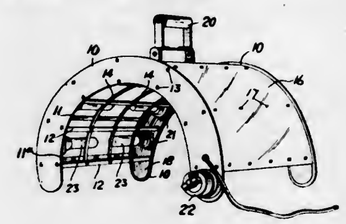
4. The device for aligning and holding containers of toy torpedoes in parallel rows so that the containers of each row can be simultaneously charged with explosive by a gage scoop tool and so that all the containers can be simultaneously charged with gravel, said device consisting a frame having a flat bottom and rectangular walls, straight partitions for separating and aligning the rows of containers, said partitions being movable in the frame and a spring actuated plunger plate acting to press the containers and partition plates together and grip them in the frame.

1,427,907. TUB BOTTOM. LEE H. PAYNE, Milwaukee, Wis. Filed Dec. 22, 1921. Serial No. 524,067. 2 Claims. (Cl. 217—80.)

1. A receptacle comprising side walls composed of staves, and a bottom inserted in the end of the receptacle, united with the staves through the medium of a chime joint and having a vertical dimension which presents the upper surface of the bottom a substantial distance below the lower ends of the staves and causes the bottom to support the receptacle with the staves out of contact with the surface upon which the receptacle stands.

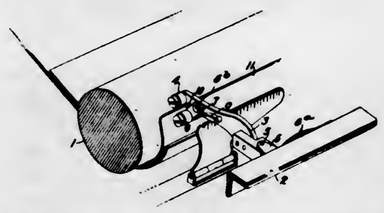


1,427,908. SURGICAL BAKER. LENA PERLMAN, Philadelphia, Pa. Filed Aug. 28, 1920. Serial No. 406,562. 3 Claims. (Cl. 174—87.)



1. An arch-shaped surgical baker, having arcuate shaped end members, an outer frame formed of structural elements connecting the outer edges of the end members to each other, an inner frame formed of a plurality of spaced structural elements connecting the inner edges of the end members to each other at different points throughout the length of the end members, and lamps supported on one of said end members and extending between the frames, the inner frame also forming a guard for lamps.

1,427,909. TYPEWRITING MACHINE. EDWIN A. PETERSON, Madison, Wis., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 21, 1920. Serial No. 411,716. 3 Claims. (Cl. 197—139.)



1. In a typewriting machine, the combination with a platen, a carriage therefor, and types to strike against

the front of the platen, of a rearwardly-extending arm loosely pivoted on the carriage to swing laterally and vertically and spring-pressed to press downwardly at its free end towards the crown of the platen, a roll upon the end of said arm, and a second roll loosely mounted upon said arm for substantially horizontal independent movement or pressure rearwardly against the front of the platen, and spring-pressed rearwardly against the front of the platen, said second roll mounted to occupy a position above and in close proximity to the types in their printing position, to press against the platen, a sheet being typed close to its leading edge.

1,427,910. OIL BURNER. WILLIAM R. QUINN, New York, N. Y. Filed Nov. 22, 1920. Serial No. 425,602. 6 Claims. (Cl. 158—77.)

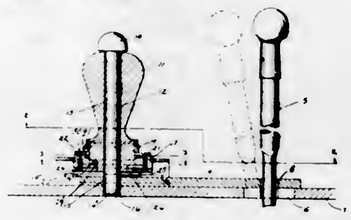


1. A burner for fluid fuel comprising a casing, means for causing steam to pass through said casing, an oil spreading surface provided in said casing and shielded from the steam, and means for directing oil tangentially upon said surface whereby a thin film of oil is formed and passes from the edge of the surface into the steam substantially free from globules.

1,427,911. PLASTIC COMPOSITION. LINWOOD T. RICHARDSON, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 24, 1917. Serial No. 208,538. 4 Claims. (Cl. 106—16.)

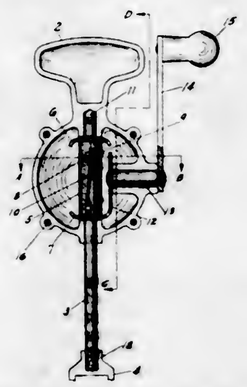
1. The herein described process, for curtailment of the effect of water on plastic composition formed of a binder containing fatty materials and a filler containing basic ingredients, consisting in subjecting the filler, prior to mixture with the binder, to a neutralizing treatment rendering the filler ingredients non-combining as regards the fatty materials of the binder.

1,427,912. AUTOMOBILE LOCK. WILLIAM A. RIDEOUT, Oshkosh, Wis. Filed Aug. 16, 1919. Serial No. 317,921. 3 Claims. (Cl. 70—128.)



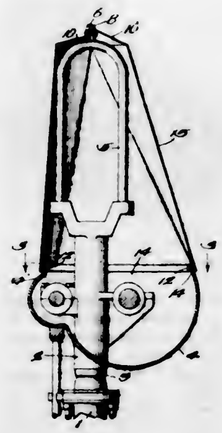
1. An automobile gear shift lever lolk of the class described comprising a gear shaft lever engaging plate having a slot to receive the gear shift lever, a stationary member adapted to slidably receive said plate, a vertically disposed locking pin slidably mounted in said member above said plate, said member having a recess to receive the lower end of said pin, said plate having an aperture for said pin which is brought into register therewith when the gear shift lever is in its inoperative position, and locking means associated with said pin for the purpose described.

1,427,913. VALVE-GRINDING DEVICE. CHARLES RUIZ, Belleville, N. J. Filed June 13, 1921. Serial No. 477,318. 1 Claim. (Cl. 51—29.)



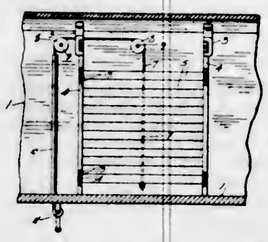
In a valve grinder of the oscillating progressive type, the combination of a case, a driven shaft journaled therein and having means for engaging a valve to be ground, and a laterally projecting pin, a sleeve loose on the shaft having a hole larger than and receiving the pin and two bevel gears of the same size, a spring fast to the sleeve and bearing against one side of the pin, a mutilated bevel gear mounted in the case to mesh with said first mentioned gears laterally, and a hand crank for operating said mutilated gear, whereby the shaft is oscillated to a greater extend in one direction than in the other.

1,427,914. GEAR CASING. DANIEL R. SCHOLES, Chicago, Ill., assignor to Aermotor Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 1, 1921. Serial No. 519,148. 4 Claims. (Cl. 74—56.)



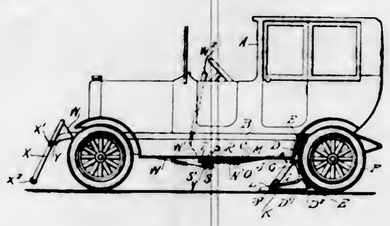
1. A gear casing including a base portion open at its top; a hood formed of flexible sheet metal; and a frame shaped in cross section in the form of an inverted U and receiving the rim of said base portion of the casing in the groove thereof and assembled with and surrounded by the base of the hood, said frame being rigid in relation to the sheet metal of the hood and in expanding relation to the hood base.

1,427,915. CAR DOOR. AXEL SELLGREN, Winnipeg, Manitoba, Canada. Filed Aug. 9, 1920. Serial No. 402,474. 1 Claim. (Cl. 20—32.)



In a car door, a plurality of leaves hingedly connected, channeled sectional metal strips covering the ends of said leaves and a portion of the sides thereof, said strips being hingedly connected, certain of said leaves having notches in the opposite end edges thereof, said strips adjacent said notches being perforated, rollers journalled in the side portions of said strips and disposed in said notches and extending through the perforations in said strips, to project from the ends of said leaves, channelled guide members for the ends of said leaves and adapted to receive the covered ends therein whereby the rollers will bear against one face of the guides and the side portions of the sectional strips will slidably engage the side portions of the guides, said guides being curved to dispose the door in raised position at substantially a right angle to its closed position, and means for raising and lowering said door.

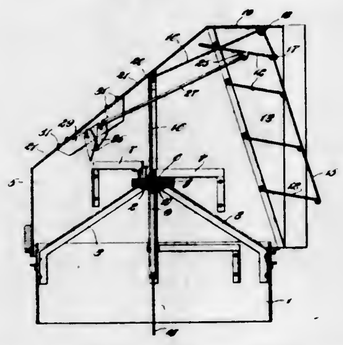
1,427,916. BRAKING MECHANISM FOR ROAD VEHICLES. GEORGE S. SHEINKER, New York, N. Y., assignor of one-half to Alexander Miller, New York, N. Y. Filed June 28, 1919. Serial No. 307,430. 6 Claims. (Cl. 180—83.)



1. A brake mechanism for road vehicles comprising a supporting frame, a brake-frame carried thereby, means for holding said brake-frame at a predetermined distance above the ground, comprising a bell-crank lever having a slot at one end and connected to said brake-frame by a pin adapted to slide in said slot, a locking mechanism controlling said brake-frame and means for automatically unlocking said lock and thus setting the brake.

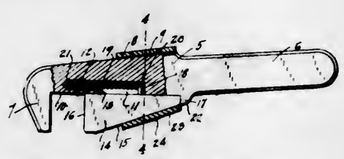
1,427,917. HOLDING MEANS FOR VENTILATOR LOUVERS AND THE LIKE. WALTER SKIPWORTH, Cleveland, Ohio, assignor to The Ohio Blower Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 27, 1918. Serial No. 246,976. 1 Claim. (Cl. 292—274.)

A ventilating device comprising a hood portion having an opening therein, a plurality of louvers adapted to move in unison to open and close said opening, a flexible element secured to said louvers and extending through said hood to a point within the building on which said device is mounted, a substantially U-shaped member pivotally connected to said louvers and extending within the hood, a stationary member fastened to said hood and provided with a plurality of notches, and a dog pivoted adjacent each of said notches, said U-shaped member being adapted to engage said notches upon a



downward pull of said flexible element thereby to move said member in one direction and engage said dogs to override said notches when said flexible element is released to permit said member to move in the opposite direction.

1,427,918. WRENCH. CHRISTIAN HANS STAUFFER, Chicago, Ill. Filed Mar. 4, 1922. Serial No. 541,088. 4 Claims. (Cl. 81—154.)



1. A wrench comprising a body member having a fixed jaw at one end and a longitudinally extending slot in the front face of the body member, a wedge jaw slidable on said front face, a portion of said jaw being movable within the slot, a wedge collar embracing the body member and the wedge jaw, and yieldable means disposed within the slot and operatively connecting said portion of the wedge jaw to the body member.

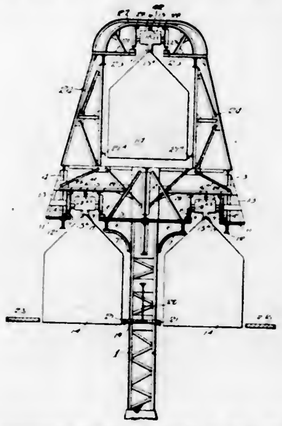
1,427,919. PROCESS FOR ELECTRICALLY MANUFACTURING COMPACT METALLIC BERYLLIUM. ALFRED STOCK, Berlin-Dahlem, and HANS GOLDSCHMIDT, Berlin, Germany. Filed May 12, 1922. Serial No. 560,452. 7 Claims. (Cl. 204—19.)

1. A process of electrolytically producing beryllium which comprises electrolyzing a fused bath containing essentially an alkaline earth metal fluorid and a beryllium compound.

1,427,920. ELEVATED RAILWAY. JOSEPH B. STRAUSS, Chicago, Ill. Filed Jan. 19, 1917. Serial No. 143,219. 16 Claims. (Cl. 104—94.)

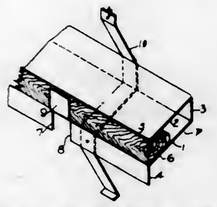
1. A railway structure comprising a series of central supports, a series of central main carrying members connecting said central supports and bracing them, a side main carrying member on each side of said central member, cross members connecting said side main carrying members with said supports, rails supported between the main carrying members, cross supports at intervals un-

der said rails, some of said cross supports projecting through the side main carrying members, and connecting



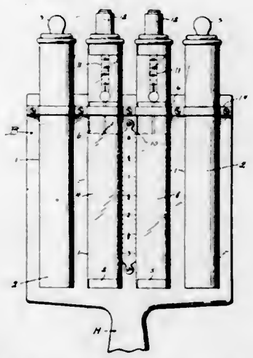
members connecting the outer ends of said cross supports with said main carrying members.

1,427,921. FLASHING RECEPTACLE AND BRACE. GEORGE E. SWENSON, Hastings upon-Hudson, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed Aug. 30, 1920. Serial No. 406,955. 9 Claims. (Cl. 108—26.)



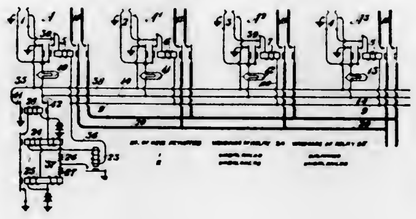
1. In a flashing form, a sheet of material having a portion bent so as to form a downwardly sloping receptacle and means for retaining a longitudinal brace in said receptacle.

1,427,922. VISCOSIMETER. LOUIS L. TIFFANY, Ashinont, Mass. Filed Sept. 21, 1921. Serial No. 502,134. 1 Claim. (Cl. 265—11.)



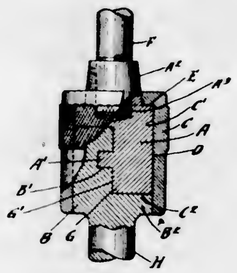
A device of the class described comprising a body, a pair of tubes carried thereby, said tubes having their walls transparent and said tubes also being of the same dimensions, and heavy cylindrical members snugly fitting within each of the tubes, said members being of duplicate construction and of the same weight, each of said members having grooves produced in their peripheries, the ends of the grooves being open.

1,427,923. TELEPHONE-CALL CIRCUITS. JOHN F. TOOMEY, New York, N. Y., and OWEN H. LOYNES, Woodridge, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 21, 1920. Serial No. 375,568. 9 Claims. (Cl. 179—41.)



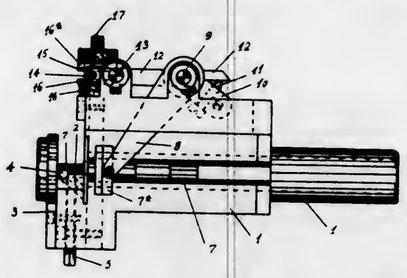
2. A telephone system comprising a plurality of switchboard positions, a call circuit common to said positions, a key at each position, a relay for each position associated with each key, the relay for any position being operable upon the depression of the key at said position to provide a connection with said call circuit for that position, and means responsive to the actuation of a number of relays greater than one for preventing the actuation of the remaining relays.

1,427,924. COUPLING. HENRY TRUST, Park Ridge, N. J., and FRANK M. ASHLEY, Brooklyn, N. Y.; Josephine Trust, administratrix of said Henry Trust, deceased. Filed June 16, 1920. Serial No. 389,341. 9 Claims. (Cl. 287—104.)



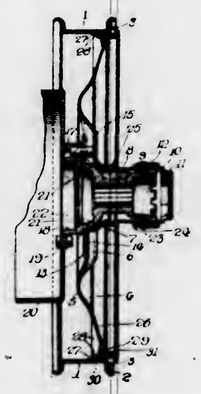
1. A coupling comprising two oppositely disposed portions each having a flat surface adapted to contact with the other and formed on the median vertical line of the coupling, one of which portions is provided with a transverse keyway formed in said surface and the other having a key extending into said keyway, and a ring adapted to slidingly engage the exterior surfaces of said portions and hold them together, the said coupling portion being of considerably increased diameter relative to the shaft portions thereof to provide an enlarged contact surface between the coupling members.

1,427,925. VARIABLE SUPPORT FOR CUTTING TOOLS. CHARLES UEBELMESSER, New York, N. Y., assignor, by mesne assignments, to Albert H. T. Banshaf, New York, N. Y. Filed Jan. 13, 1919. Serial No. 270,833. 2 Claims. (Cl. 82—35.)



1. The combination, in a machine box tool, of a main support, a movable toolbit-holder, a work-holder, and a guide-carrying member abutting the work-bar in said holder, said guide member imparting motion to the toolbit-holder by head-on pressure of the work-bar.

1,427,926. DEMOUNTABLE WHEEL FOR AUTOMOBILES. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Sept. 10, 1919. Serial No. 322,778. 11 Claims. (Cl. 301—63.)



1. In a wheel of the class described, a single disk wheel having a smooth conical surface around its outer area merging into a radially corrugated stiffened area around the hub and this region joined to a tubular extension, forming a unitary disk and hub.

1,427,927. METAL DISK WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Aug. 4, 1921. Serial No. 489,780. 6 Claims. (Cl. 301—19.)



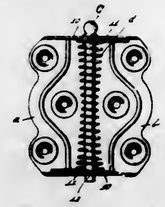
1. The combination with a wheel disk having a marginal rim seat with an inclined flange at its inner side extending outwardly with respect to the wheel's center, of a rim fitting said seat and inclined flange, and screws having inclined shoulders at intervals arranged to press the rim inward against said flange and at the same time, press its outer margin radially outward.

1,427,928. AUTOMOBILE BUMPER. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill. Filed Oct. 3, 1921. Serial No. 504,841. 15 Claims. (Cl. 293—55.)



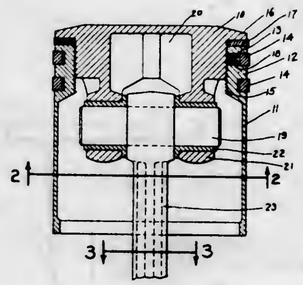
10. In an automobile bumper, the combination with an elongated loop having U-shaped ends and provided with a middle member mounted between the sides of the loop, of transverse vertical members connecting said sides and member, and suitable means for fastening the said bars to the frame of the car.

1,427,929. SPRING HINGE. CLIFFORD E. BAILEY, Cromwell, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed June 27, 1921. Serial No. 480,549. 5 Claims. (Cl. 16—189.)



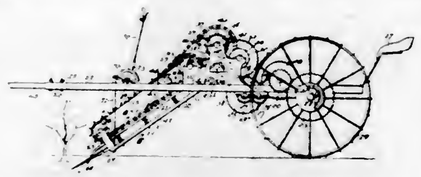
5. An article of the character described comprising a pair of leaves formed of sheet metal and provided with flanges having registering apertures and integral prongs extending from the edges of some of said apertures, a pin extending through said apertures, and a coiled spring with a central portion of reduced diameter closely fitting said pin and having its ends encircling said prongs.

1,427,930. PISTON CONSTRUCTION. ORVILLE W. BAKER, Indianapolis, Ind. Filed Mar. 18, 1921. Serial No. 453,214. 7 Claims. (Cl. 74—108.)



1. As an article of manufacture, a piston having piston rings thereon, and means independent of said rings mounted on the outer periphery of and connected with said piston for facilitating the conduction of heat from the head thereof.

1,427,931. COTTON-STALK CUTTER AND INSECT KILLER. THOMAS H. BATLA and HENRY J. HOLAN, Temple, Tex. Filed Oct. 31, 1921. Serial No. 511,634. 6 Claims. (Cl. 55—118.)



1. A stalk cutter and insect killer including a supporting frame, traction wheels thereon, a stalk cutting roller having knives, a cutter bar coacting with the roller and its knives, a pair of crushing rollers, a plow supported in advance of the stalk cutting means, a conveyor carrying stalks from the plow to the stalk cutting means, and means conveying the cut stalks from the stalk cutting means to the crushing rollers, said rollers, stalk cutting means and conveyor being operatively connected to the traction wheels to be driven thereby.

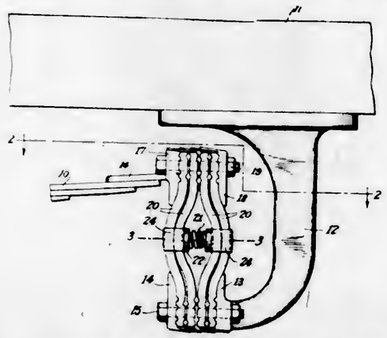
1,427,932. FULCRUM AND METHOD OF MAKING THE SAME. CARL E. BAUER, Hammond, Ind. Filed Oct. 18, 1920. Serial No. 417,638. 6 Claims. (Cl. 29—164.)



1. The method of forging brake beam fulcrums which consists in providing a flat bar, punching spaced apertures near the middle thereof, then doubling said bar on itself to bring said apertures into register, then enlarging said aperture and flaring the sides thereof and laterally spreading the metal around the aperture.

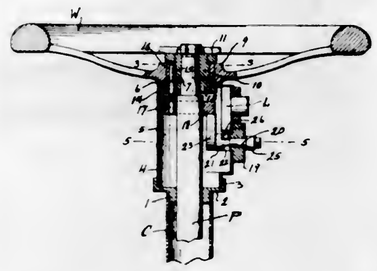
5. A brake beam fulcrum consisting of a single bar doubled on itself, the terminal portions of the bar being laterally bent to provide means of attachment to an angular compression member, the opposite end being punched to provide a tension-rod seat, the metal surrounding said punched opening being flared to increase the bearing area.

1,427,933. VEHICLE SUSPENSION. HARVEY W. BELL, Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del., a Corporation of Delaware. Filed Jan. 11, 1921. Serial No. 436,433. 7 Claims. (Cl. 267—54.)



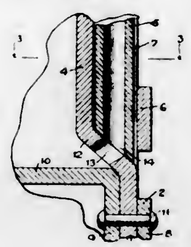
4. A suspension link for vehicles comprising cooperating strips of flexible material, means for securing opposite ends of said link to related relatively movable parts of a vehicle and a spreading spring interposed between the cooperating strips of the link.

1,427,934. LOCKING MECHANISM. THOMAS WM. BELL, Portland, Oreg. Filed Mar. 8, 1922. Serial No. 541,971. 5 Claims. (Cl. 70—129.)



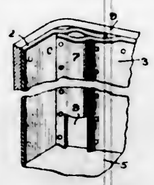
1. A locking mechanism comprising, in combination with a steering post, a steering post column and a steering wheel, of a jacket secured to the upper portion of the column, a bushing extending through a wall of the jacket and fixed to the steering post, the steering wheel being mounted upon the bushing, opposed faces of the bushing and steering wheel being provided with grooves adapted to register, a member slidably mounted on the post within the jacket, a pin carried by said member and movable within the grooves of the bushing and wheel when said grooves are in register to lock the wheel to the bushing, and mechanical means for moving the member in a direction to position the pin within said registering grooves.

1,427,935. ICE-MAKING APPARATUS. ANSON J. BENTLEY, Niles, Ohio. Filed Nov. 8, 1919. Serial No. 336,558. 1 Claim. (Cl. 62—159.)



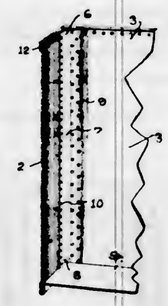
A freezing can having a channel formed vertically in one wall thereof, said channel being of identical cross section from the top of the can to a point adjacent the base where said channel is provided with a perforated end wall forming an acute angle with the base and presenting a flat portion surrounding the perforation, a straight air tube mounted in said channel and extending from end to end thereof, the tube presenting an upper end open for connection with an air supply pipe and presenting a flat diagonal lower end fitting against the corresponding flat portion of the end wall of the channel around the perforation and soldered thereto to provide an air-tight conduit to the interior of the can, whereby air may be introduced into said can and directed across the bottom thereof to agitate the contained water during the freezing operation.

1,427,936. FREEZING CAN. ANSON J. BENTLEY, Niles, Ohio. Filed Dec. 27, 1920. Serial No. 433,163. 11 Claims. (Cl. 62—159.)



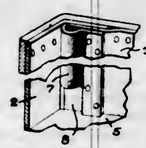
1. A sheet metal container having a conduit extending along one wall downwardly from the top thereof, the said conduit being formed by integral overlapped edge portions of the wall material partially spaced between lines of jointure.

1,427,937. FREEZING CAN. ANSON J. BENTLEY, Niles, Ohio. Original application filed Dec. 27, 1920. Serial No. 433,163. Divided and this application filed Apr. 28, 1922. Serial No. 557,145. 5 Claims. (Cl. 62—159.)



1. A freezing can, for use in the manufacture of ice, substantially rectangular in cross section and having the adjacent edge portions of wall material overlapped and fastened on both sides of a corner and spaced at the corner to form an air conduit integral with the walls of the can.

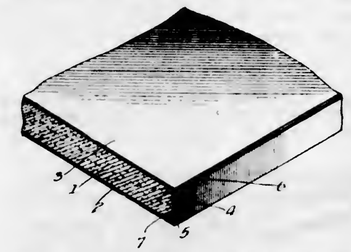
1,427,938. FREEZING CAN. ANSON J. BENTLEY, Niles, Ohio. Original application filed Dec. 27, 1920. Serial No. 433,163. Divided and this application filed Apr. 28, 1922. Serial No. 557,144. 7 Claims. (Cl. 62—159.)



1. As an article of manufacture, an ice mould having a portion of one of the walls bent over upon itself to form an air pipe, common means for securing said bent-over portion and an adjacent wall of the tank together, substantially as described.

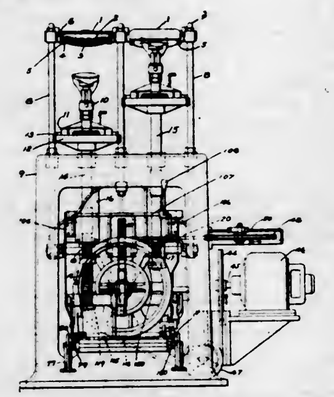
1,427,939. PLASTER BOARD. CHARLES R. BIRDSEY, Hinsdale, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 2, 1920. Serial No. 348,940. Divided and this application filed Jan. 3, 1921. Serial No. 434,649. 4 Claims. (Cl. 154—45.9.)

4. A plaster board of the kind described comprising a body and a covering sheet arranged at each face side thereof, one of said sheets folded over at opposite edges of the board to enclose the edge of the body, said folded over



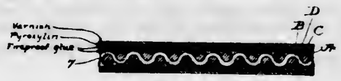
edge portions terminating short of the other cover sheet with their extremities underlying the edges of said other cover sheet.

1,427,940. SOLE-PRESSING MACHINE. CHARLES C. BLAKE, Brookline, Mass. Filed Aug. 8, 1916. Serial No. 113,725. Renewed Dec. 15, 1921. Serial No. 522,724. 10 Claims. (Cl. 12—36.)



1. A sole pressing machine, having, in combination, cooperating sole pressing members; a source of power, and a train of mechanism connecting one of said pressing members and said source of power, having a definite limit of extent of movement, for moving one of said members toward the other including a worm wheel operating to stop upon the attainment of a predetermined pressure upon the work and devices operated by the endwise movement of the worm under an overload for disconnecting the train of mechanism from its source of power.

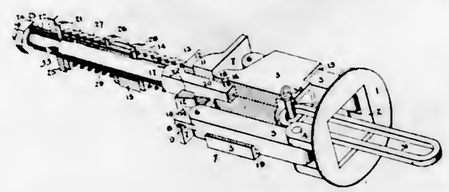
1,427,941. AEROPLANE ELEMENT AND PROCESS OF MAKING SAME AND PRODUCT OF SAID PROCESS. GUIDO BLENIO, New York, N. Y., assignor, by mesne assignments, to Blenio Paint & Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 11, 1918. Serial No. 211,419. 9 Claims. (Cl. 91—68.)



5. In the manufacture of aeroplane wings the process which comprises treating the frames thereof with a fireproofing material, stretching and fastening the fabric covering on the frames, treating the fabric with a moist fireproofing material while on the frames and sealing the same in place by a film of waterproofing material.

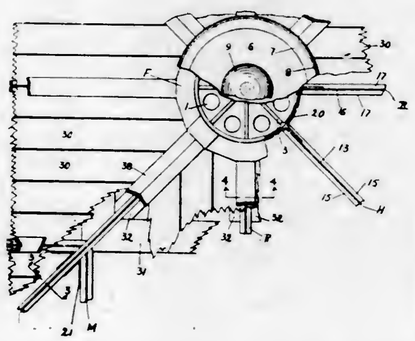
8. As a new article of manufacture, a textile fabric having the threads or fibers impregnated with fireproofing chemicals and coated with a composition containing hygroscopic materials, and a film of water-proofing material sealing such chemicals and such composition in place.

1,427,942. RAILWAY COUPLING. HARRY W. COSTON, Port Elizabeth, Cape Province, South Africa. Filed June 5, 1919. Serial No. 301,924. 3 Claims. (Cl. 213—42.)



2. In a central buffer coupling, the combination with a buffer head, of a coupler head, bars supporting the buffer head and supported by the coupler head, a yoke from which said bars project, a draw bar secured to the coupler head and passing through said yoke, a drag girder attachment through which the draw bar extends, a washer adapted to bear on the attachment, a spring between the yoke and said washer, a forwardly directed shoulder on the draw bar adapted to bear against said washer, and a spring bearing on the attachment and connected to the draw bar to resist outward movement thereof.

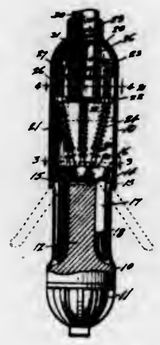
1,427,943. ROOF. DAVID CRAIG, Peabody, Mass., assignor of one-half to Charles H. Lovsey, Pittsburgh, Pa. Filed Feb. 13, 1919. Serial No. 276,790. 5 Claims. (Cl. 108—32.)



1. A roof comprising a center-piece, hypotenuse rafters extending outwardly from said center, each at an angle to the other, a central rafter extending outwardly from said center-piece within said angle, minor rafters extending outwardly from said hypotenuse rafters in parallelism with said central rafter, said hypotenuse rafters comprising vertical strips of metal with wooden strips secured to the sides thereof, and means for securing said minor rafters to said wooden strips.

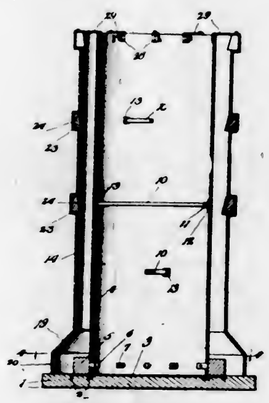
1,427,944. WELL-WASHING DEVICE. FRANK E. CROTTO, Dallas, Tex. Filed Apr. 25, 1921. Serial No. 464,285. 5 Claims. (Cl. 166—20.)

1. In a well cleaning device, a housing having a plurality of openings, a nozzle mounted within each opening of the housing and arranged to be swung outwardly from the opening of the housing, and means for simultaneously



swinging said nozzles from the housing, each nozzle being arranged to yield inwardly independently of the other nozzles and the swinging means.

1,427,945. MOLD. GEORGE CUOZZO, Bangor, Me. Filed Mar. 9, 1921. Serial No. 450,877. 4 Claims. (Cl. 25—127.)



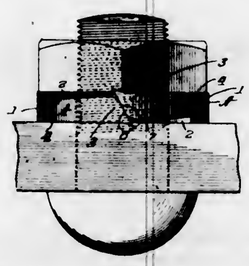
1. A pipe mold comprising inner and outer walls, the outer wall being provided with hollow offsets, and fillers to fit within said offsets.

2. A pipe mold comprising a pallet, inner and outer walls resting upon the pallet in concentric relation, keepers hinged to the upper end of one of the walls and extending over the upper edges of both walls, and means carried by the other wall to restrain the said keepers.

3. A pipe mold comprising inner and outer walls, a sectional former disposed around the lower end of the inner walls, said sections having their meeting ends disposed obliquely, and lugs on some of said sections.

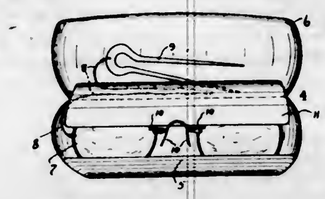
1,427,946. LOCK WASHER. EMORY S. ENSIGN, Rockford, Ill. Filed July 13, 1921. Serial No. 484,277. 8 Claims. (Cl. 151—36.)

1. A nut lock comprising two washers abutting together through faces that resist backing off; one of said washers carrying, upon a portion thereof, an edge adapted to bite into a member against which it is pressed when in



use, and the other washer constructed to leave said portion unsustained axially.

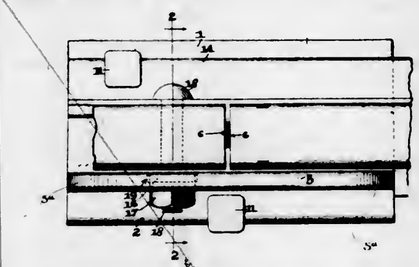
1,427,947. CASE FOR EYEGLASSES. EDWARD H. FLITTON, Omaha, Nebr. Filed Dec. 19, 1919. Serial No. 346,143. 1 Claim. (Cl. 206—5.)



An eyeglass case comprising a case body of the general contour of the eye glasses adapted to receive the same and being open at its top portion and closed at its bottom and sides, said case body having a ledge upon its front side while overlapping a portion of the open top, a cover for the case body hinged to the longitudinal side thereof away from the ledge and adapted to snap closed against said ledge, and a partition of flexible material secured flexibly at its inner longitudinal edge at approximately line of pivoting of the cover about the case body, said flexible partition adapted to be moved about its flexible hinge connection independently of the cover and adapted to close down upon the open top portion of the case body while the cover is in full open position, said flexible partition being smaller in width and length than the cover and adapted at its free end to lie on top of only a relatively small inner portion of said ledge, and ends of the flexible partition terminating short of the ends of the case body to allow a space for the chain of a support to pass above the partition.

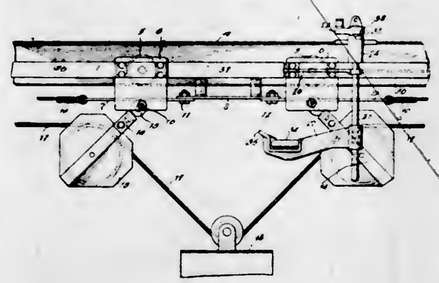
1,427,948. CHAIR FOR RAIL JOINTS. RAY FREEMAN, Perrine, Fla. Filed Oct. 26, 1920. Serial No. 419,691. 2 Claims. (Cl. 238—195.)

2. The combination in a rail joint, of a sole plate sufficiently wide to extend well beyond the inner flange of a rail base, perforated to receive spikes; an inner fish plate bearing against a rail head and inner flange, extending from the flange and provided with notches registering with said spike perforations; a bent portion extending from the sole plate and embracing the outer flange of a rail base, including a recess said bent portion contacting said base flange at the innermost point only to provide adjusting space; and a fish plate extending from said bent portion, including a shoulder contacting beneath a rail



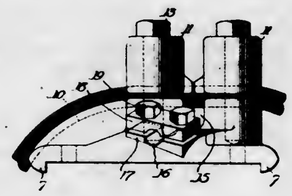
head, said fish plate having a recess in one side for housing a lock washer of a bolt which secures the parts together.

1,427,949. ROPE CARRIER. JOHN F. GODFREY, Elkhart, Ind., assignor to The Godfrey Conveyor Company, Elkhart, Ind., a Corporation of Indiana. Filed Dec. 20, 1920. Serial No. 431,819. 13 Claims. (Cl. 212—94.)



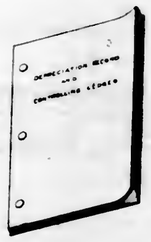
1. In combination with a conveyor traveler and conveyor supporting means, ropes associated with the traveler, and supporting means for said ropes normally interposed in the path of the traveler and adapted to be displaced by a member making operative connection with means carried by the traveler, in order to permit passage of the traveler.

1,427,950. MAST SADDLE. JOHN F. GODFREY, Elkhart, Ind., assignor to The Godfrey Conveyor Co., Elkhart, Ind., a Corporation of Indiana. Filed Sept. 9, 1921. Serial No. 499,505. 5 Claims. (Cl. 212—70.)



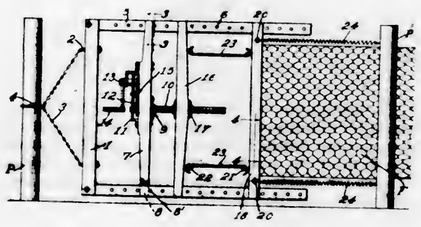
1. A mast saddle comprising a body member adapted to be secured to a mast top, said body having grooves for the reception of cables, and clamping members associated with the body member and adapted to secure the cables in place.

1,427,951. BOOK FOR INCOME-TAX RETURNS. LOUIS J. GREGERSON, GREGERS P. GREGERSON, and HENRY M. GREGERSON, Omaha, Nebr. Filed Aug. 28, 1920. Serial No. 406,556. 2 Claims. (Cl. 283—66.)



1. A book for income tax return comprising a series of sheets with appropriately designated lines, columns and headings for the entry of the articles to be listed, in such manner that the value of each article may be traced from one period of time to another and its proper measure of increase or depreciation noted, and a balance sheet indicative of the total actual measure of increase or depreciation of said articles respectively since the last tax return, upon which the income tax due may be based.

1,427,952. FENCE STRETCHER. CHARLES HAGUE, Hot Springs, Ark. Filed Aug. 25, 1921. Serial No. 495,197. 2 Claims. (Cl. 254—67.)



1. A device of the class described including connected guide strips, means for anchoring them to a fence post, a normally stationary cross head adjustably mounted on the guide strips, a feed screw supported thereby, power multiplying means carried by said cross head for actuating the feed screw, a movable cross head mounted on the guide strips for actuation by the feed screw, means slidable on the guide strips for engaging a fence fabric, and a connection between said means and the movable cross head.

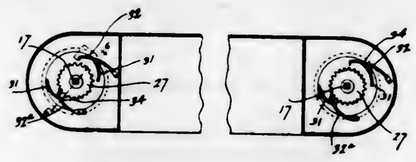
1,427,953. ATTACHING DEVICE. ARTHUR W. HARRISON, Winthrop, Mass., assignor, by mesne assignments, to Porcelain Appliance Corporation, Wilmington, Del., a Corporation of Delaware. Filed June 6, 1918. Serial No. 238,559. 1 Claim. (Cl. 173—314.)

As an article of manufacture for the purpose described, the combination with a vitreous member having a passage, of a rigid attaching member extending through said passage, said attaching member having a head at one end and a point at the other end and also having an integral prong of elastic material extending with its tip toward the said head, and the attaching member at the point where said prong is located being normally larger



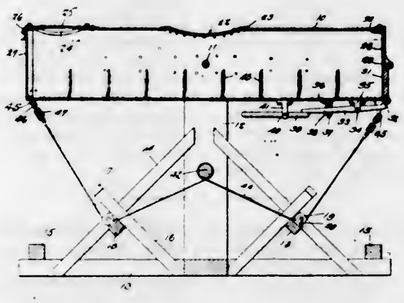
than said passage, the vitreous member being loosely retained on the attaching member by said head and prong.

1,427,954. FILM CAMERA. JOSEPH A. HAZELQUIST, Amery, Wis. Filed Aug. 9, 1920. Serial No. 402,120. 7 Claims. (Cl. 242—71.)



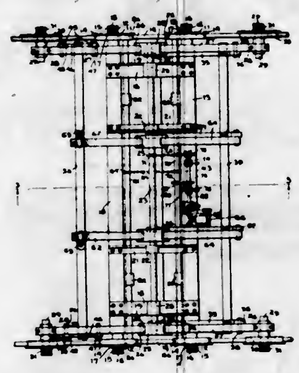
6. In a film roll camera, the combination of a casing, a pair of film spools in said casing, ratchet wheels rigid with said film spools, a pair of oppositely working pawls for each of said ratchet wheels, and means for selectively adjusting said pawls on said ratchet wheels, for permitting the winding or unwinding of a film on either of said spools, said means preventing the turning of both of said spools in a direction other than that for which they are adjusted.

1,427,955. CONCRETE MIXER. JOSEPH W. HELTZEL, Warren, Ohio. Filed July 17, 1920. Serial No. 396,990. 1 Claim. (Cl. 83—73.)



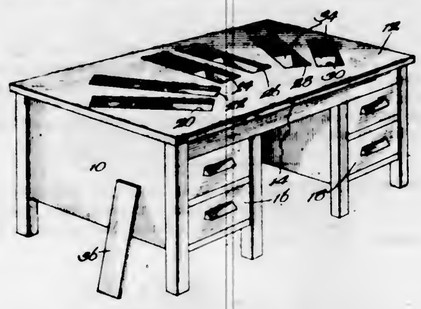
In a mixing device, a support, a drum pivotally mounted intermediate its ends to permit the same to oscillate, a plurality of semi-circular spaced baffle blades positioned within the drum, the upper ends of the baffle blades terminating at points intermediate the top and bottom of the drum and means for oscillating the drum.

1,427,956. MACHINE FOR MAKING CONCRETE PAVEMENT. JOSEPH W. HELTZEL, Warren, Ohio. Filed Aug. 4, 1920. Serial No. 401,100. 9 Claims. (Cl. 94—48.)



1. A road building machine including a wheel supported frame, an auxiliary frame adjustably secured to the wheel supported frame, a road engaging tool supported by the auxiliary frame, and means for imparting a positive curvilinear motion to the road engaging tool.

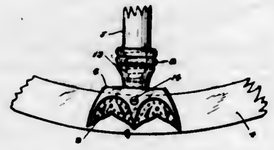
1,427,957. CARD-FILING DESK. CHAUNCEY G. HOBART, Chicago, Ill. Filed Nov. 28, 1921. Serial No. 518,347. 2 Claims. (Cl. 45—2.)



2. In a device of the class described, a normally flat top desk, provided with a plurality of elongated surface perforations arranged radially about a user's position adjacent to the desk, each adapted to hold a plurality of vertically disposed filing cards positioned with their top edges normally lying in a horizontal plane, adjacent to the upper surface of the desk, so as to be readily accessible through said perforations in the top of the desk, means for so supporting said cards, and a cover insertable in each of said perforations adapted to render the top of the desk a flat, continuous working surface whenever the cards are not in use.

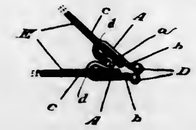
1,427,958. FURNITURE FIXTURE. LEWIS KEACHLER, Philadelphia, Pa., assignor of one-half to Nora C. Strayer, Philadelphia, Pa. Filed Dec. 17, 1921. Serial No. 523,108. 1 Claim. (Cl. 155—74.)

A furniture fixture of the character described for connecting a leg to the rocker rail of a rocking chair, said rocker rail having a transversely threaded hole therein, said fixture comprising an inverted U-shaped member having an integrally formed threaded socket adapted to receive the correspondingly threaded end of the aforesaid leg, said inverted U-shaped member being formed with spaced depending side members integral with a bridge portion and said bridge portion having a longitudinal curvature on its underface conforming to the curvature of the rocker rail, opposed apertures in the side members adapted to register with the threaded opening



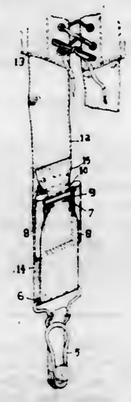
in the rocker rail, and a stud having a threaded portion intermediate its ends for insertion in the aforesaid threaded opening whilst the ends of said stud are adapted to be journaled in the apertures in the side portions of the inverted U-shaped member, and the curved inner face of the bridge portion thereof being adapted to seat on the upper curved face of the rocker rail.

1,427,959. CUFF LINK. JULIUS KOWALL, Newark, N. J. Filed Mar. 16, 1921. Serial No. 452,657. 2 Claims. (Cl. 24—102.)



1. A cuff-link consisting of a bar member twisted upon itself to form two loops intermediate two arm members said loops being adapted to separate the ends of a cuff and said arm members to pass through the holes of said ends and adapted to interlock each other beyond said ends, said arm members being also respectively adapted to clamp respective end of the said cuff between said arm and said loops.

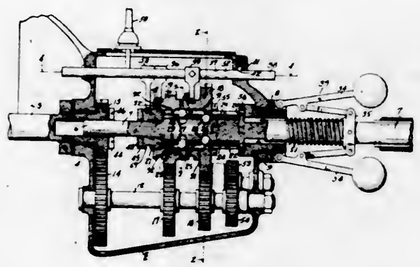
1,427,960. HOSE SUPPORTER. JOSEPH LEONARD, New York, N. Y., assignor to Fifth Avenue Corset Company, Inc., Allentown, Pa., a Corporation of New York. Filed Sept. 18, 1918. Serial No. 254,538. 1 Claim. (Cl. 241—1.)



In a garment-supporter, the combination with an elastic element including a pair of cross bars arranged adjacent one end of the elastic element, and means resiliently

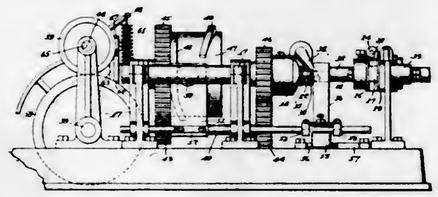
urging the cross bars into close relation to each other, of a supporting tape having one end returned and connected to one of the cross bars, the elastic element being positioned between the returned portion and the body portion of the tape, a branch carried by the tape beyond the returned portion and attached to the other cross bar, and a means of attachment to a garment supported in the bight of the returned tape portion.

1,427,961. TRANSMISSION MECHANISM. WILLIAM H. LONG, Berkeley, Calif. Filed Apr. 12, 1921. Serial No. 460,641. 7 Claims. (Cl. 74—97.)



1. In a transmission mechanism, a shaft having a pocket, a gear slidably mounted on said shaft, a revoluble member adapted to be moved into or out of said pocket by the longitudinal movement of said shaft relative to the gear whereby said gear will be locked to said shaft for rotation therewith or held freely rotatable thereon when said member is respectively engaged in or disengaged from said pocket.

1,427,962. MACHINE FOR MAKING WIRE STRAPS. WINFRED NORTON LURCOTT, Weehawken, N. J. Filed Apr. 27, 1920. Serial No. 376,975. 13 Claims. (Cl. 140—71.)



1. A machine as characterized comprising feeding means for guiding a strand of wire to provide an unsupported end section of predetermined length; a deflector for engaging said section to turn the same at an angle to the body of the wire of approximately ninety degrees; a steady rest upon which the wire is bent; a gyratory member for engaging the bent section of said wire to coil the same around the body of the wire adjacent said section.

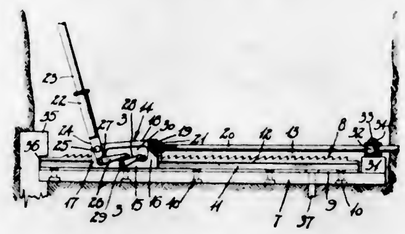
1,427,963. IRONING BOARD. WILLIAM C. MARKS, Cleveland, Ohio, assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill., a Corporation of New York. Filed Sept. 29, 1920. Serial No. 413,574. 4 Claims. (Cl. 68—10.)

1. In combination with an ironing board having means for sustaining a garment thereon, means for stretching the garment comprising an area of impaling projections, and a mounting for such projections through which they



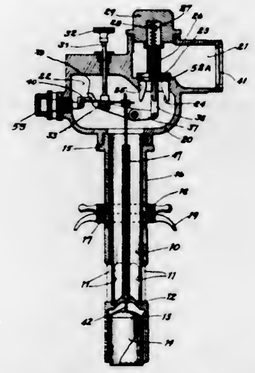
are moved to exert a pull on the garment; said projections being resilient and yieldingly exerting their pull upon the garment.

1,427,964. CONDUIT-FORMING JACK. JAMES E. MARQUISS, Monticello, Ill. Filed May 10, 1921. Serial No. 468,458. 1 Claim. (Cl. 254—29.)



A pushing jack comprising a rail having ratchet teeth thereon, a slide having shoes movable along the sides of the rail and arches at the ends connecting said shoes and straddling the rail over said ratchet teeth, an oscillatory actuating member fulcrumed on one of said arches, a dog pivoted to said member, a dog pivoted to said shoes, said dogs engaging said teeth between said arches, and said slide having a top bar connecting said arches to brace said arches and to limit the upward swinging movement of and protect said dogs, and said slide having an opening surrounded by said shoes, arches and bar in which said dogs are disposed.

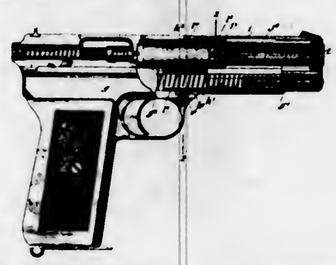
1,427,965. ATTACHMENT FOR FILLING BARRELS. ANTON MATUSCHAK and ALBERT LANGSCH, New York, N. Y. Filed Nov. 16, 1921. Serial No. 515,451. 5 Claims. (Cl. 226—127.)



1. A device of the class described comprising a main body having a valve slidably mounted therein, a shaft having a lever extending therefrom, a lifter hingedly connected to the end of said shaft and adapted to lift

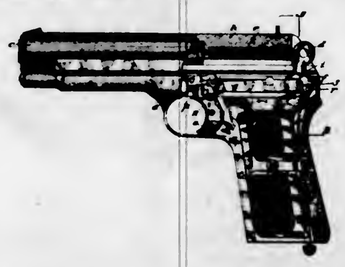
the valve, an actuating lever extending from the opposite side of said shaft, a plunger rod in pivoted engagement with the actuating lever and extending upwardly through the body, a push button formed to the upper end of the said rod, means for opening the valve by depressing the push button, and means for varying the time of closing of the valve.

1,427,966. RECOIL-LOADING PISTOL. JOSEF NICKL, Oberndorf-on-the-Neckar, Germany, assignor to Waffenfabrik Mauser, Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Filed June 16, 1921. Serial No. 478,208. 18 Claims. (Cl. 42—4.)



1. In a recoil loading pistol, the combination of a barrel, a grip-stock, a breech-slide guided on said grip-stock, a sliding means rotatably engaged with the barrel, and a stop for said sliding means, whereby the barrel is rotated on the stoppage of the sliding means.

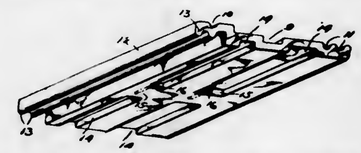
1,427,967. RECOIL-LOADING PISTOL. JOSEF NICKL, Oberndorf-on-the-Neckar, Germany, assignor to Waffenfabrik Mauser, Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Filed June 16, 1921. Serial No. 478,210. 13 Claims. (Cl. 42—70.)



1. In a recoil-loading pistol, the combination of a barrel, a grip-stock, a breech-slide, a rotatable hammer having a disk-like hub or nave, a sear engageable with said hub or nave, and a safety lever also mounted so as to engage with said hub or nave, said lever being operable at will from the outside to lock the hammer both in its cocked and in its uncocked position.

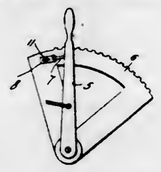
1,427,968. ROOFING TILE. OSCAR A. PEDERSEN, New York, N. Y. Filed Apr. 15, 1921. Serial No. 461,599. 3 Claims. (Cl. 108—10.)

1. A roofing tile comprising a hardened body formed to provide a drainage groove extending longitudinally of its upper face and recesses in its lower face formed in pairs one on each side of the planes of the opposite side edges formed by said drainage groove, one side edge of the tile being formed to provide an overhanging portion having ridges extending longitudinally of its under face, the other of the side edges having its upper face formed to provide grooves adapted to receive in interlocked engagement therewith the ridges of the overhanging portion of an adjacent tile, and a thickened portion



formed between the oppositely disposed recesses and extending transversely beneath the said drainage groove to add strength to the tile in its entirety.

1,427,969. STOP DEVICE FOR LEVERS. THOMAS PIDGEON, Highland Park, Ky. Filed May 13, 1921. Serial No. 469,279. 1 Claim. (Cl. 74—39.)

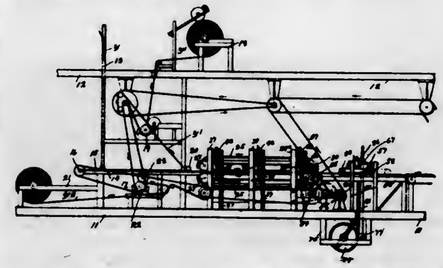


The combination with a throttle lever and a support to which the lever is pivoted and across the face of which it is adapted to be swung; of an abutment positioned to extend into the path of the lever to intercept the same when it is swung toward throttle-closing position, said abutment being pivoted to swing laterally of the lever out of the path thereof to permit completion of the swing of the lever to throttle-closing position, a base member on the aforesaid support to which member the abutment is pivoted, said member having a slot extending in the direction the lever swings, and a fastening means for the base member passing through the slot thereof into the support.

1,427,970. SECONDARY BATTERY. GEORGE W. PLEIS, Sr., and GEORGE W. PLEIS, Jr., Philadelphia, Pa. Filed June 8, 1921. Serial No. 476,003. 6 Claims. (Cl. 204—29.)

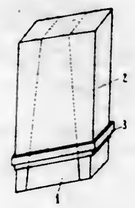
1. A secondary battery electrode having active material containing lead oxids, talc, and lamp black.

1,427,971. COMPO-BOARD MACHINE. WILLIAM B. PORTER, Minneapolis, Minn. Filed Feb. 2, 1921. Serial No. 441,959. 16 Claims. (Cl. 154—1.)



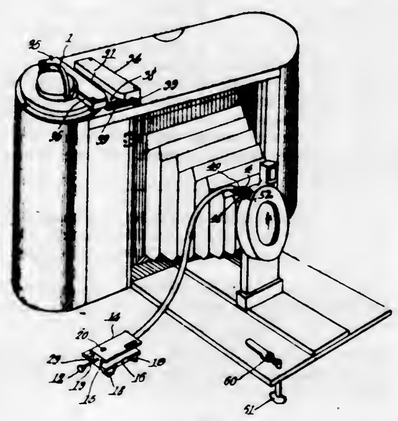
1. In a compo board machine, the combination with an endless belt press and means for supplying assembled board-forming elements thereto, of a power driven saw, and means for causing the same to travel with the moving compo board and to move transversely thereof to cut the same in sections while thus traveling.

1,427,972. MANUFACTURE OF CELLULOID VESSELS. ADOLFO PORCHAIN, Turin, Italy. Filed Aug. 18, 1920. Serial No. 404,445. 5 Claims. (Cl. 18—51.)



1. A method of manufacturing vessels of celluloid comprising wrapping on a core successive layers of fabric impregnated with a solution of celluloid, inserting a rigid frame on said wrapped layers, permitting said celluloid to dry and removing said core.

1,427,973. INTERLOCKING DEVICE FOR AVOIDING DOUBLE EXPOSURES AND BLANK FILMS. ANDREW H. ROIKJER, Boise, Idaho. Filed Apr. 21, 1921. Serial No. 463,282. 4 Claims. (Cl. 95—31.)



1. In an apparatus of the class described the combination with a camera utilizing a film and film spools, of gear mechanism operatively connected with one end of the film winding spool, spaced grooved plates in proximity to said gear mechanism and shaped to receive a compact shutter controlling apparatus, a spring-return flexible cable to which said shutter controlled apparatus is attached and by which the shutter is operated to cause an exposure of the film, means for manually actuating said cable, and means for locking the shutter after each operation thereof until a winding of the film shall have occurred.

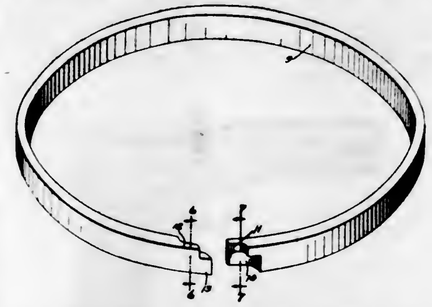
1,427,974. PUMP. CHARLES R. SESSIONS, San Francisco, Calif. Filed Dec. 6, 1920. Serial No. 428,428. 13 Claims. (Cl. 253—194.)

1. A rotary pump comprising a pump casing containing a stator and having discharge passageways outside the latter, a shaft supported by the casing, a tubular member bearing on the shaft, a rotor and a pump runner carried



by said tubular member, the runner discharging its fluid through the passageways outside the stator.

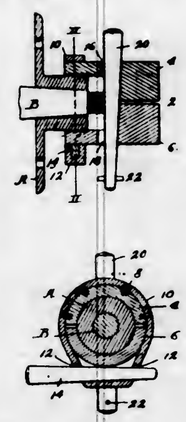
1,427,975. PISTON RING. MARTIN E. SIPE, Minneapolis, Minn., assignor to Seal-Tite Piston Ring Co., Minneapolis, Minn., a Corporation of Minnesota. Filed June 9, 1920. Serial No. 387,555. 3 Claims. (Cl. 74—109.)



1. A piston ring provided at one end with a radially outwardly facing reduced portion forming a web and a web reinforcing flange laterally adjacent thereto, the said web and flange terminating on the same transverse line at the end of the ring, said web, in respect to said flange being relatively long, wide and shallow, and the said ring, at its other end having an inwardly facing reduced portion forming a web and a laterally adjacent reinforcing flange, said latter web and flange terminating on the same line at their inner extremities, said latter flange being, in respect to said adjacent web, relatively wide, radially deep and circumferentially long, so that it projects at that end of the ring beyond said adjacent flange, said flange on the latter noted end of said ring fitting the web on the first noted end of the ring, and the flange on the first noted end of the ring fitting the web on the second noted end of said ring.

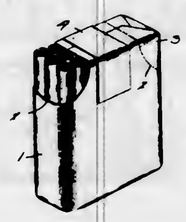
1,427,976. WHEEL PULLER. HENRY D. SKILES, Kansas City, Mo. Filed Feb. 19, 1921. Serial No. 446,254. 2 Claims. (Cl. 29—85.)

1. A wheel puller consisting of a divided sleeve having an opening laterally therethrough and a retaining member in which one member of the sleeve is firmly secured the companion member being removably mounted, a tapered element for engagement with the retaining member and the removable sleeve member to force the latter and



its companion firmly into engagement with the wheel to be pulled, and a member adapted to be driven through said opening and bear against the end of the wheel shaft to force the sleeve longitudinally and loosen the wheel from said shaft.

1,427,977. CIGARETTE PACKAGE. ELMER L. SOHN, El Paso, Tex. Filed Aug. 23, 1920. Serial No. 405,244. 2 Claims. (Cl. 229—87.)



1. In a cigarette package a cover member provided with a pair of parallel weakened lines terminating in a semicircle adjacent each end of said member and arranged so as to extend around an upper corner of the package and include within the weakened lines overlapped end portions of the closure members of the package.

1,427,978. WORKING VALVE FOR OIL WELLS. HARRY J. STEINBEACER, Sklatook, Okla. Filed Mar. 18, 1922. Serial No. 544,702. 1 Claim. (Cl. 103—225.)

In a working valve for oil wells, the combination with the working barrel, of a working valve comprising a central section engageable with the adjacent wall of the barrel, packing elements surrounding said central section and engageable with the adjacent wall of the barrel to form a fluid tight joint, top and bottom end sections connected to said central section, the lower end section being formed of two parts detachably connected together, one of said parts being circumferentially reduced at its juncture with the other part to provide an annular groove, a metal packing ring within said groove and covering the meeting ends of the sections, said central section at its upper end being circumferentially reduced and formed with a threaded extension of less diameter than the circumferentially reduced portion, the top end section being threaded onto

said extension and being of greater diameter than the circumferentially reduced portion of said central section

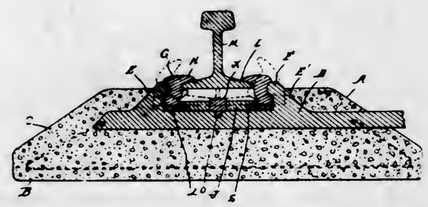


and cooperating with said circumferentially reduced portion to form a groove and an expansible metal packing ring carried in said last named groove.

1,427,979. EFFERVESCENT MIXTURE. WILLIAM E. STOKES, Rockville Center, N. Y., assignor to Royal Baking Powder Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 11, 1919. Serial No. 316,759. 3 Claims. (Cl. 99—10.)

1. A baking powder comprising a carbonate, a substantially neutral calcium lactate and acid phosphate.

1,427,980. RAILWAY TIE. GUSTAV STROM, Pontiac, Mich., assignor of thirty one-hundredths to Peter D. Johnston, Pontiac, Mich. Filed July 3, 1922. Serial No. 572,695. 6 Claims. (Cl. 238—117.)

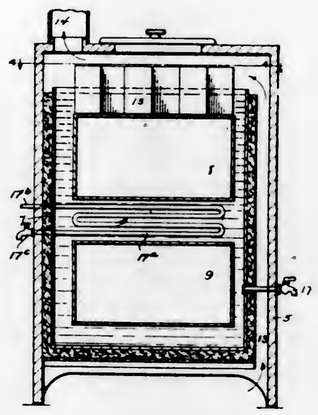


1. In a railway tie, the combination with a concrete body forming a rail support, of a metallic member embedded in said body, rail clamps pivotally secured to said embedded member to be movable thereon into and out of clamping position, and means for locking said clamps in their clamped position.

1,427,981. EVAPORATIVE ICELESS REFRIGERATOR. CHARLES C. SWARTWOOD, Centralia, Wash. Filed July 28, 1921. Serial No. 488,202. 3 Claims. (Cl. 62—90.)

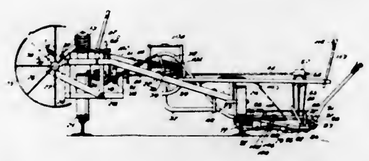
1. An evaporative refrigerator of the character comprising a casing, a water tank therein spaced from the wall of the casing along one side thereof to provide a vertical air channel open at the bottom to the atmosphere, a natural draft outlet flue at the other side of the casing, the top of the water tank being spaced from the

top of the casing to provide a passage of air which travels upwardly from beneath the casing through the vertical channel entirely across the top of the tank continuously in one direction and out of said flue and capillaceous elements lying partly in the water in the tank and partly



above said tank and above the water level and projecting into the path of the current of air.

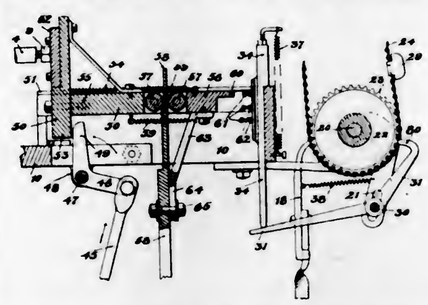
1,427,982. RAIL-DRILLING DEVICE. FREDERICK A. TEGELER, La Grange, Ill. Filed Dec. 29, 1919. Serial No. 348,002. 28 Claims. (Cl. 77—8.)



1. A rail drilling device of the class described, comprising a truck provided with motive power, a drill-frame hingedly secured to said truck and adapted to be disposed to the outside of the rail when in operative position and to fold across said truck toward the opposite side when in transporting position, drill-casings carried at the outer end of said frame and movable thereon and power-imparting means leading from the motive power on said truck to said drill-casings, said means having a yielding point in alignment with the hinged point of said drill-frame so as to fold therewith.

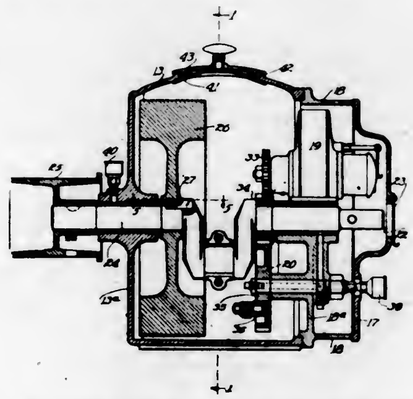
1,427,983. FANCY KNITTING ATTACHMENT FOR KNITTING MACHINES. LOUIS TLUCKA, Boonton, N. J., assignor to Van Raalte Company, Inc., New York, N. Y., a Corporation of New York. Filed June 18, 1921. Serial No. 478,460. 7 Claims. (Cl. 66—30.)

1. In a device of the class described, a transfer point shaft, means for shifting said shaft longitudinally, according to the pattern to be knitted, said means including a two-part slide against which said shaft is held, means



for separating the parts of said slide and a plurality of adjustable abutments for limiting the movement of said slide in one direction.

1,427,984. INTERNAL-COMBUSTION ENGINE. LEE L. TURNEY, Minneapolis, Minn. Filed July 22, 1920. Serial No. 398,161. 4 Claims. (Cl. 123—195.)



1. An internal combustion engine comprising a cylinder, a crank case closed on one side and open on the other side, magneto, governor and valve operating mechanism, a plate for said open side providing means for mounting the magneto, governor and valve-operating mechanism, a crank shaft in said crank case mounted in said plate at one end and in the closed side of the crank case at the other end and extending through the said closed side to provide means for driving attachment, a fly wheel in said crank case mounted on said crank shaft with one face thereof lying adjacent a cheek of the crank portion of said crank shaft, registering slots in said crank cheek and the hub of said fly wheel, a key having a driven fit in said slots and having its outer end lying adjacent the outer end of the slot in said crank cheek, the metal of said crank cheek being peened over the outer end of the key to prevent displacement thereof.

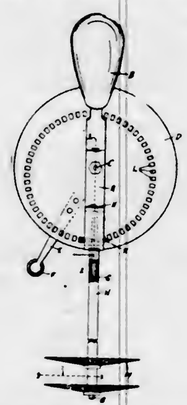
1,427,985. MAGAZINE PENCIL. ANTHONY VASSELLI, Newark, N. J. Filed Apr. 2, 1921. Serial No. 458,002. 9 Claims. (Cl. 120—19.)

5. In a magazine pencil, the combination of a tubular case, a case point detachably connected therewith at one end thereof, a fixed annular head upon the other end of said case, a rotatable disk located in said annular head, an annular channel between the periphery of said disk and said head, a tube leading tangentially from said channel axially through said case and into said point, a flexible wire extending through said tube and into said



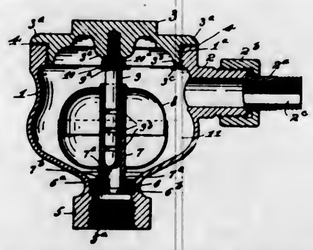
channel and a pin projecting from the periphery of said disk into said channel for engaging the end of said wire to project the same endwise through said tube upon the rotation of said disk, whereby a lead held in said case point may be ejected therefrom.

1,427,986. CREAM AND EGG WHIPPER. JOHN H. VINER, Minneapolis, Minn. Filed Jan. 13, 1922. Serial No. 529,034. 4 Claims. (Cl. 259—144.)



1. A device of the class described consisting of a suitable frame, a plate pivotally mounted thereon and adapted to be rotated, said plate having a circular row of slots eccentric with relation to its pivot, a vertical member rotatable and vertically slidable in the frame, said member having an agitating element at its lower end, and a pinion at the upper end of said vertical member, said pinion meshing with said eccentric row of slots.

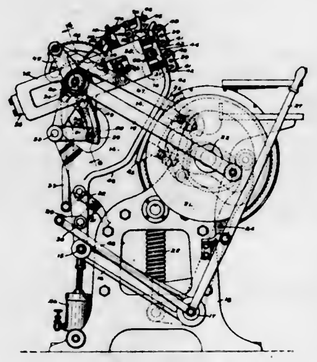
1,427,987. STEAM TRAP. CHARLES E. WALSH, Cleveland, Ohio. Filed Jan. 15, 1921. Serial No. 437,443. 2 Claims. (Cl. 137—103.)



1. In a steam trap, the combination of a casing, and a closure cap in the top thereof, said casing having

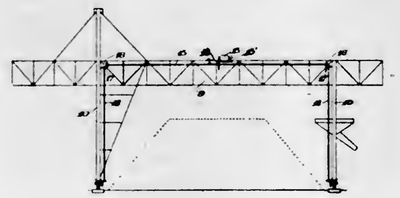
an inlet connection, and provided with a discharge connection in the bottom thereof, a valve-seat in the discharge element, a valve operative on said seat, said valve comprising a tubular stem having a float attached thereto a guide element fixed in the closure cap, depending therefrom and having a sliding fit in the bore of the tubular stem, apertures provided in the valve stem above the valve-seat, for engagement with a key adapted for insertion through the outlet, whereby said valve may be rotated on the valve-seat.

1,427,988. INK-DISTRIBUTING MECHANISM. EDWARD T. WATERS, Omaha, Nebr. Filed Sept. 11, 1920. Serial No. 409,680. 9 Claims. (Cl. 101—361.)



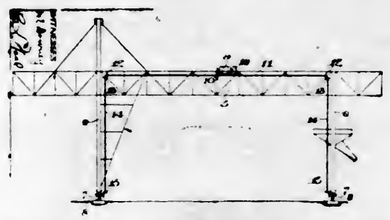
1. In a printing press having an oscillating bed, the combination with form-roller frames pivoted on the bed, and form-rollers carried by said roller-frames and movable thereby to traverse the printing-form, of actuating means for said roller-frames comprising cam-grooved arms carried thereon, and pivoted oscillating arms having means engaging and movable in the cam-grooves, portions of the cam-grooves being concentric with the axis of oscillation of said arms when the roller-frames are in a predeterminable position, whereby to cause a dwell of the roller-frames at said position.

1,427,989. CONVEYING STRUCTURE. THOMAS S. WATSON, Milwaukee, Wis. Filed Sept. 27, 1920. Serial No. 413,017. 3 Claims. (Cl. 105—29.)



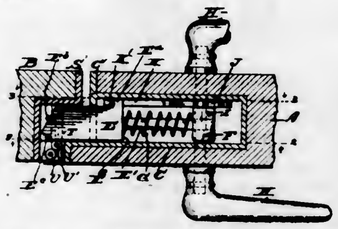
3. The combination, with a conveying structure having a bridge mounted on spaced trucks, of driving means mounted on the bridge, transmission shafts on each truck operatively connected with and driven by said driving means, a propelling wheel carried by each of the trucks and drivingly connected with the transmission shaft on that truck, a pin rack adjacent each truck and engaged by the propelling wheel for that truck, a rail mounted adjacent each truck, and guide and supporting wheels mounted on each truck to run on the rail for that truck.

1,427,990. RUNNING GEAR FOR CONVEYING STRUCTURES. THOMAS S. WATSON, Milwaukee, Wis. Original application filed Sept. 27, 1920, Serial No. 413,017. Divided and this application filed Jan. 26, 1922. Serial No. 531,883. 4 Claims. (Cl. 105—29.)



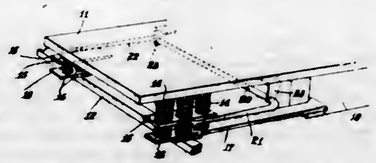
1. Running gear for conveying structures comprising a truck, a rail, supporting and guide wheels for said truck and running on said rail, a plate abutting one side of the rail, anchoring means securing the rail to the roadbed and the plate to the rail, another plate supported on said anchoring means above the roadbed and spaced from the first named plate, transversely disposed pins joining said plates together and coacting therewith to form a pin rack, and a propelling wheel on the truck engageable with said rack.

1,427,991. LATCH. JOHN A. WHITTAKER, Detroit, Mich. Filed Aug. 13, 1921. Serial No. 491,894. 3 Claims. (Cl. 292—172.)



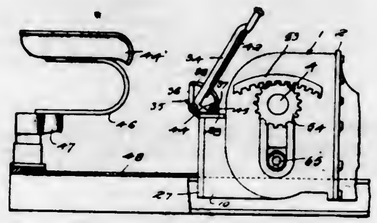
1. A latch for doors comprising a spring actuated bolt having its projecting end eveled on its lower horizontal face and in opposite directions to each other on its inner and outer side faces, a strike plate adapted to be secured to the door casing to receive the end of the bolt, a roller journaled horizontally in the strike plate, adapted to act upon the inclined lower face of the bolt to overcome any tendency of the door to sag and a pair of rollers journaled vertically in the strike plate, adapted upon closing the door to force the bolt back against the action of its spring and when closed to act upon the outer face of the bolt to maintain the door in a tightly closed position and to reduce friction upon the operation of the bolt.

1,427,992. VEHICLE SUSPENSION. WILLIAM R. WILLIAMS, Philadelphia, Pa. Original application filed Jan. 22, 1912, Serial No. 672,768. Divided and this application filed Nov. 7, 1921. Serial No. 513,354. 12 Claims. (Cl. 267—60.)



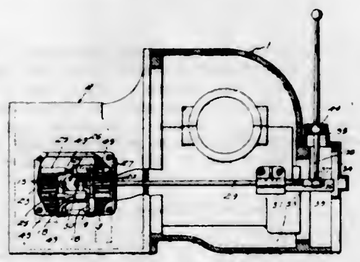
1. A vehicle suspension including, in combination, a pair of elastic means arranged on opposite sides of the vehicle, a transversely disposed rigid member rotatably attached to the suspended portion of the vehicle on a line substantially parallel therewith, and levers extending from said member intermediately of portions of said elastic means.

1,427,993. COMBINED BRAKE AND REAR PILOT. BENJAMIN C. ZUHARS and HARRY D. CLARKE, Columbus, Ohio, assignors to The Ohio Tractor Company, Columbus, Ohio, a Corporation of Ohio. Filed Jan. 21, 1920. Serial No. 353,042. 7 Claims. (Cl. 188—77.)



1. In a tractor, a platform located at the rear of the tractor, a main driven shaft extending to the rear of said tractor and terminating at or near the rear end thereof, a brake secured to said rear end of said shaft, a brake lever above said brake and in close proximity to the platform, and brake connections extending upwardly from said brake to said lever.

1,427,994. TRANSMISSION-SHIFTING MECHANISM. BENJAMIN C. ZUHARS and HARRY D. CLARKE, Columbus, Ohio, assignors to The Ohio Tractor Company, Columbus, Ohio, a Corporation of Ohio. Filed Jan. 21, 1920. Serial No. 353,043. Renewed Aug. 20, 1921. Serial No. 493,922. 6 Claims. (Cl. 74—59.)



1. A transmission shifting mechanism including a transmission housing with transmission shifting gears of a differential housing extending rearwardly of the transmission housing, control means carried by the differential housing, and means connecting said control means to the shifting gears.

1,427,995. CUSHION WHEEL. GEORGE L. ALLEN, Detroit, Mich. Filed Oct. 17, 1921. Serial No. 508,290. 6 Claims. (Cl. 152—36.)

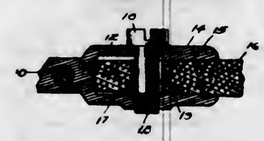
1. A cushion wheel, having in combination, an inner wheel section provided with an outwardly opening channel on its periphery and an outer wheel section provided with an inwardly opening channel on its inside, said outer section channel ring made up of a plurality of

segments that engage each other end to end, a rubber cushion contained between the two sections in the opposed



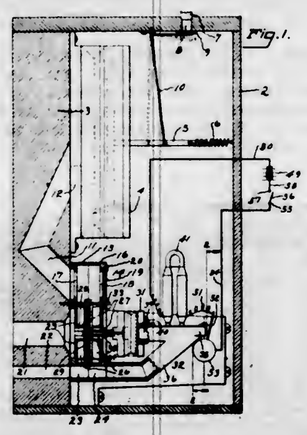
channels, and a rubber outer tire and rim pressed over the plural segment outer section channel ring to hold the parts together and form the traction surface.

1,427,996. EYEGLASS MOUNTING. LEW ARNTZ, Des Moines, Iowa. Filed June 28, 1922. Serial No. 571,415. 1 Claim. (Cl. 88—42.)



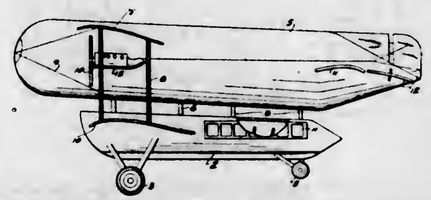
The combination of lenses with an eye glass mounting, having a bridge, nose guards, spaced ears spaced from the lenses, said ears having lugs projecting away from the mounting provided with opposite flat faces forming bearings of substantial alignment for engaging the lenses for substantial spaces, spaced from the screw holes of the lenses, said lenses and ears having screw holes, and screws received in said holes.

1,427,997. ELECTROPNEUMATIC ORGAN ACTION. BASIL G. AUSTIN, Hartford, Conn., assignor to Austin Organ Company, Hartford, Conn., a Corporation of Maine. Filed Oct. 21, 1919. Serial No. 332,217. 3 Claims. (Cl. 84—338.)



1. A valve mechanism for use in an electropneumatic organ action, comprising two sections exact duplicates of and connected with each other to constitute a closed box, each section having openings constituting ports, means permanently closing a port of one of the sections, a valve enclosed by the valve mechanism, and means for causing the valve to open and close ports on the two sections alternately.

1,427,998. AIRSHIP. THOMAS BARRETT, Pasadena, Calif., assignor of one twentieth to Walter M. Murphy, Pasadena, Calif. Filed Apr. 7, 1920. Serial No. 372,001. 1 Claim. (Cl. 244—5.)



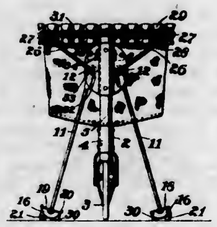
An airship comprising a gas bag having the capacity of rendering the loaded organization buoyant in air, guiding mecahnism carried by said gas bag, a gondola depending from said bag and adapted to float the loaded organization in water, an airplane structure mounted upon said gas bag and gondola said structure having propelling mecahnism, and landing wheels carried by said gondola.

1,427,999. PENCIL. RAYMOND T. BELL, Chicago, Ill. Filed Feb. 13, 1922. Serial No. 536,255. 12 Claims. (Cl. 120—17.)



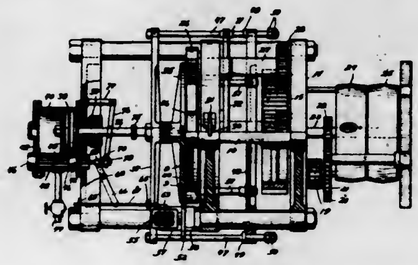
3. A pencil embodying a barrel, a tip connected with the barrel, the said tip being shaped to form a gripping portion to grip the lead, a spring actuated plunger operating to force the lead from the barrel and through the tip, a cap co-opearting with the tip and adjustable in one direction to cause the tip to grip the lead and adjustable in another direction to cause the tip to release the lead, and means whereby the adjustment of the cap in one direction will permit the said plunger to move one step and the adjustment of the cap in the opposite direction will permit the plunger to move another step, the said means embodying an escapement device.

1,428,000. BABY CARRIAGE. SAMUEL J. BENS, Herkimer, N. Y. Filed Oct. 27, 1919. Serial No. 333,555. 28 Claims. (Cl. 280—42.)



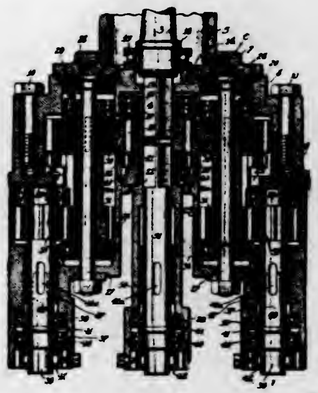
1. A baby carriage comprising a body portion with a wheel at each end, and a handle composed of two members, one at each side, movably mounted and capable of forming side supports for the body, substantially as described.

1,428,001. MACHINE FOR BENDING ANGLE IRON. CHARLES P. BUCK, Topeka, Kans. Filed June 14, 1920. Serial No. 388,857. 12 Claims. (Cl. 153—56.)



1. A machine for forming angle iron rings, comprising a rotating bed wheel, a series of rollers arranged circumferentially around said wheel in position for engagement with one of the angle iron flanges and causing the same to follow the periphery of said bed wheel, a yieldingly-actuated roller for cooperating with the first-named rollers and bed wheel in effecting the bending operation, and means for positively driving said rollers and bed wheel uniformly at the same peripheral speed.

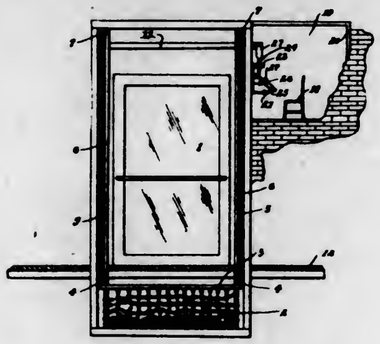
1,428,002. DRILL HEAD FOR DRILLING MACHINES. JOSEPH F. BUHS, Detroit, Mich. Filed July 5, 1917. Serial No. 178,538. 1 Claim. (Cl. 77—24.)



A drill head comprising a spindle, a member, a housing attached to said member and provided with openings, supporting members in the openings of said housing, casings extending into the bottom of said housing and supported from said supporting members, drill socket members in said casings, gears adapted to operate said drill socket members from said spindle, and gears on the inner ends of said casings to cause simultaneous adjustment of said casings, anti-frictional bearings in the openings of said housing for some of the gears therein, and anti-frictional bearings in said casings for the drill socket members therein.

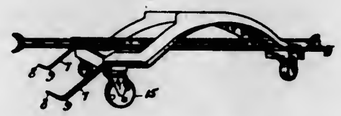
1,428,003. BANDIT TRAP. MACK CHAMBERS and YANCY W. CHAMBERS, East St. Louis, Ill. Filed June 21, 1920. Serial No. 390,436. 2 Claims. (Cl. 268—2.)

1. In combination with a wall opening and a flexible closure therefor normally disposed beneath the opening, a shaft rotatably arranged across the opening and equipped with normally inert weighted cables one end of each of which is in connection with the closure, means engaged with one end of said shaft to hold the same



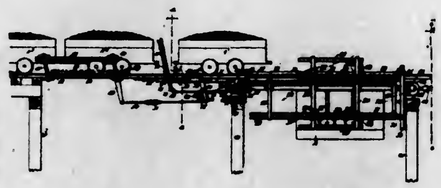
from movement, and mechanism to release said means and permit rotation of the shaft and correspondingly operate the weighted cables for urging said closure across the opening.

1,428,004. TRUCK. ALBERT A. CLARK, Orrville, Ohio, assignor to The Will-Burt Company, Orrville, Ohio, a Corporation of Ohio. Filed June 10, 1921. Serial No. 476,620. 8 Claims. (Cl. 280—56.)



1. A truck comprising a wheeled, V-shaped frame having vertically arched side members, depending support arms at one end of the frame and a forked, adjustable post pivotally connected to the other end of the frame.

1,428,005. CAR-DUMPING APPARATUS. WILLIAM RATHER COLEMAN, Birmingham, Ala., assignor to Anniston Electric Steel Corporation, a Corporation of Alabama. Filed Sept. 7, 1918, Serial No. 253,067. Renewed Dec. 5, 1921. Serial No. 520,126. 18 Claims. (Cl. 214—52.)



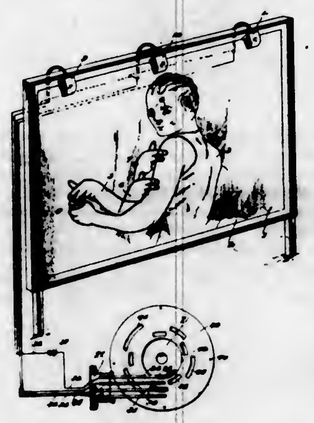
1. An apparatus of the class described including a track section, a brake associated with said track section and disposed in position to engage a car, means operable by a car passing through the track section to set the brake for a succeeding car, means to restore said brake to the release position, and trip means disposed beyond said first means and operable by a car to permit the restoring of the brake to the release position.

1,428,006. AUTOMOBILE STEP. JOHN W. CONWAY, Hartford, Conn. Filed Mar. 2, 1922. Serial No. 540,472. 1 Claim. (Cl. 280—164.)



An automobile step comprising a body having a flange at its rear and at an angle to the body, the body having means whereby it can be fastened to the running board of an automobile and the flange having a translucent identifying symbol member incorporated therein.

1,428,007. ANIMATED SIGN. RICHARD M. CRAIG, San Antonio, Tex. Filed June 11, 1919. Serial No. 303,506. 12 Claims. (Cl. 40—130.)



1. A display apparatus including a display surface bearing, in more than two different colors, different matters to be displayed, and means for successively displaying said surface in the presence of light media of colors different from those first mentioned and each capable of being absorbed by all but one of said colors.

1,428,008. METHOD OF AND APPARATUS FOR PRODUCING TRANSFORMATION EFFECTS. RICHARD M. CRAIG, San Antonio, Tex. Filed June 11, 1919. Serial No. 303,507. 9 Claims. (Cl. 46—70.)



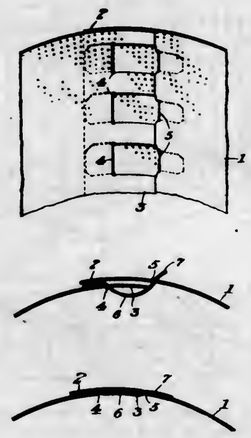
1. The method of effecting the appearance of transformation of animate and inanimate objects which comprises representing the object per se in different colors in its different forms and displaying the object successively in the presence of different light media each capable of absorbing all but a respective one of the colors in which the object is represented.

1,428,009. METHOD OF PREPARING A ROTARY GRAVURE TONE AND LINE POSITIVE. JOSEPH M. CROWN, Brooklyn, N. Y. Filed Apr. 20, 1921. Serial No. 462,906. 7 Claims. (Cl. 95—5.)



1. The herein described method of making combined line and tone positives which consists in making a suitable layout, photographically producing a negative from such layout, then removing part of the emulsion of the negative to render a part of such negative transparent, then bringing another negative into registration with the transparent portion thus formed, and thereafter employing the composite negative thus made to produce a positive.

1,428,010. LOCK JOINT FOR CENTRIFUGAL SCREENS AND METHOD OF FORMING THE SAME. EDMUND DANIELS, Lahaina, Territory of Hawaii. Filed July 14, 1921. Serial No. 484,799. 4 Claims. (Cl. 210—76.)

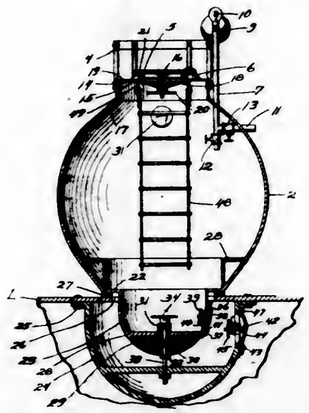


1. The method of connecting the longitudinal edges of screens of centrifugal separators, which comprises forming slots near the respective edges of the screen, inserting the ends of separate locking strips through aligning pairs of slots from the inside of the screen, overlapping the edges of the screen, and bending the strips to conform to the engaging surfaces of the screen.

1,428,011. PROCESS OF INCREASING THE SENSITIVENESS AND POWER OF EXPLOSIVE COMPOSITIONS AND PRODUCT THEREOF. WILLIAM M. DEHN, Seattle, Wash. Filed Aug. 20, 1920. Serial No. 404,851. 11 Claims. (Cl. 52—11.)

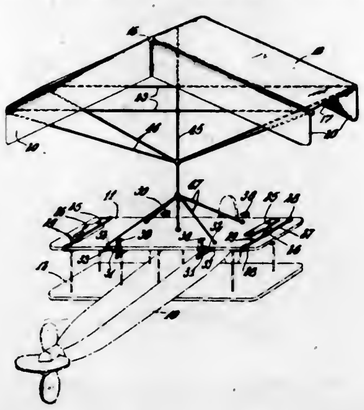
1. The process of increasing the sensitiveness and power of explosive compositions which comprises mixing diazodinitrophenol and other explosive matter under water and subsequently drying, substantially as described.

1,428,012. LIFE-SAVING DEVICE FOR SUBMARINES. JACOB DE STEFANO, Kansas City, Mo., assignor of one-half to Pete Rappas, Kansas City, Mo. Filed Apr. 4, 1921. Serial No. 458,235. 1 Claim. (Cl. 114—16.7.)



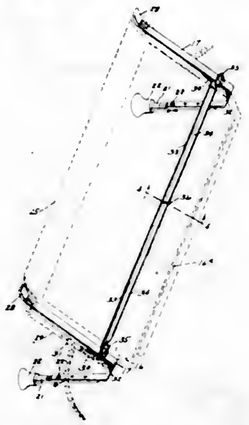
The combination with a vessel, of a buoyant device detachably secured to said vessel, a vent in the upper part of the device, a valve controlling said vent and operable from within said device, and a valve-controlled drain tube extending from said vent above the valve thereof to the exterior of said buoyant device.

1,428,013. PARACHUTE FOR AEROPLANES. THEODORE DIAKONIUK, Edmonton, Alberta, Canada. Filed Dec. 15, 1921. Serial No. 522,723. 9 Claims. (Cl. 244—21.)



1. In combination with an aeroplane, a parachute comprising a pair of flat surface members hinged to one another, and means detachably securing said members upon a lifting plane of the aeroplane.

1,428,014. RAIN VISION SHIELD. HAL DICKINSON, Minneapolis, Minn. Filed May 24, 1920. Serial No. 383,699. 3 Claims. (Cl. 296—95.)



2. An attachable rain vision shield for vehicles including a main sheet, the front edge portion of which is longitudinally crimped to form a gutter and then turned downward at the outer edge of the gutter to form a deflecting flange which projects both above and below the plane of the main sheet.

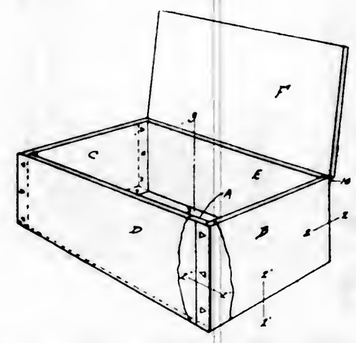
1,428,015. GOLF CLUB. JOHN A. DIENNER, Chicago, Ill. Filed Aug. 30, 1919. Serial No. 320,920. 5 Claims. (Cl. 46—4.)



1. In a golf club, the combination of a head, a shaft, a flexible section between said shaft and said head, said flexible section comprising a plurality of spring leaves, said leaves having relative sliding motion, one upon the other.

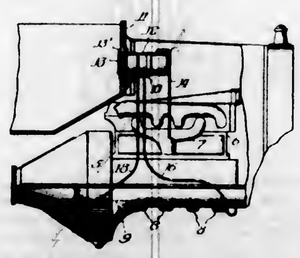
1,428,016. SHIPPING RECEPTACLE FOR CIGARS AND OTHER ARTICLES. RUSSELL H. EDDY, St. Paul, Minn., assignor of two-thirds to Harry W. Johnson, St. Paul, Minn. Filed Nov. 5, 1920. Serial No. 422,037. 3 Claims. (Cl. 217—12.)

1. A receptacle of the class set forth having walls separably joined together, the joint between a pair of adjoining wall members comprising a plate secured to the inner surface and projecting from an edge portion of one wall member having a tongue struck outwardly at an angle from the outer portion of said projecting end and a second plate secured to the outer surface and projecting from an edge portion of the companion wall having an inwardly directed end on said projecting portion and forming a slot



adapted to receive said tongue by a longitudinal sliding movement, and a frangible seal placed over the outer surfaces of said wall members and the parts of said joint, the adjacent surfaces of said slot portion of the second plate and the edge surface of the wall carrying said tongue member forming a crack to facilitate guiding an instrument in breaking or cutting the frangible seal.

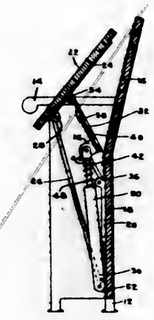
1,428,017. OILING SYSTEM. WILLIAM A. EDWARDS, Chicago, Ill., assignor of ten per cent to Ira J. Wilson and one-half to Charles E. Reed, both of Chicago, Ill. Filed Mar. 21, 1921. Serial No. 454,274. 10 Claims. (Cl. 184—103.)



1. An oiling system, comprising an oil case, an oil surplus reservoir, a pipe in continuous communication with said reservoir through which suction is continuously exerted upon said reservoir, a pipe connected with said reservoir through which oil is delivered from said reservoir when vacuum therein is broken, and a pipe connected with said reservoir through which the vacuum in said reservoir is controlled by the oil level in said case.

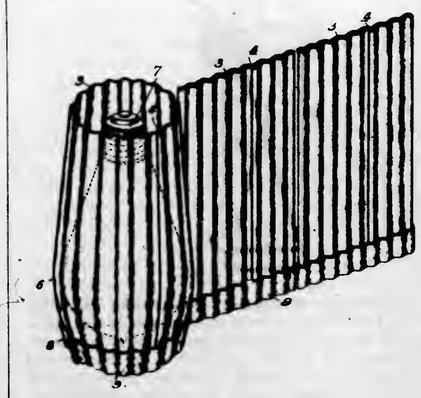
1,428,018. AUTOMATIC FOLDING SEAT CONSTRUCTION. JOHN E. ERICKSON, St. Paul, Minn., assignor, by direct and mesne assignments, to Automatic Seating Company, Superior, Wis., a Corporation of Wisconsin. Filed May 14, 1921. Serial No. 469,561. 4 Claims. (Cl. 155—85.)

1. A folding seat construction comprising a frame and back portion rigidly connected with said frame, a seat member, a pair of links pivotally connected at their lower ends at spaced points to said frame in substantially a vertical plane with the lower end of said rigid back portion and pivoted at their forward ends at spaced points to



the seat toward the front thereof, said links being substantially parallel and the last named pivots located substantially forwardly of the back frame when the seat is unoccupied, and spring means for action upon said links to lift the seat when the same is unoccupied.

1,428,019. INCANDESCENT-LAMP WRAPPER. WALTER H. FAIRCHILD, Evanston, Ill., assignor to Mid-West Box Company, Anderson, N. Y., a Corporation of Indiana. Filed Apr. 18, 1918. Serial No. 229,225. 2 Claims. (Cl. 217—29.)

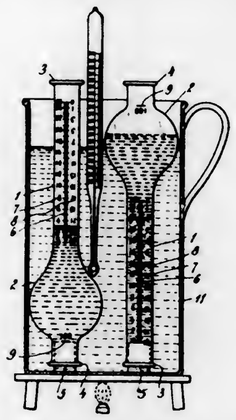


1. Incandescent lamp wrappers comprising a series of independently formed longitudinally corrugated resilient tubes and a severable continuous comparatively narrow strip secured to one portion of said tubes to temporarily hold them together serially and to restrict the expansion of one end of each tube by the lamp bulbs.

1,428,020. BUTTER TESTER. EDWARD HOLYOKE FARRINGTON, Madison, Wis. Filed Feb. 21, 1921. Serial No. 446,661. 8 Claims. (Cl. 73—166.)

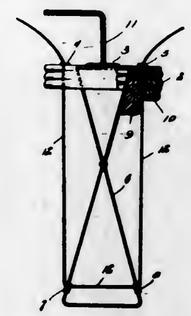
1. A tester of the character specified, comprising a tubular structure having near one end an enlargement, and a scale at each end extending from the enlargement, the

graduations on the scales indicating capacity in units, and the enlargement having a capacity of a predetermined



number of such units, and a predetermined multiple of the aggregate of the units on either scale, said scales being formed to read from either end of the structure.

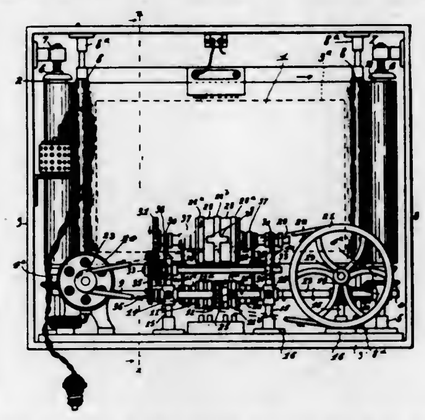
1,428,021. YARN-MOISTENING ATTACHMENT FOR KNITTING MACHINES. BEALE J. FAUCETTE, Durham, N. C. Filed Aug. 6, 1920. Serial No. 401,570. 2 Claims. (Cl. 91—32.)



1. A moistening attachment for knitting machines comprising a jar, a cap secured thereon and having openings for the inward and outward passage of yarn, respectively, a hanger in the jar and carried by the cap and having adjacent to the bottom of the jar means to guide yarn, the said hanger having a portion extended upwardly through the cap and adapted to be connected to a portion of a knitting machine, and means carried by the cap and hanger and located in the jar to remove excess moisture from yarn precedent to the passage of the same out of the attachment.

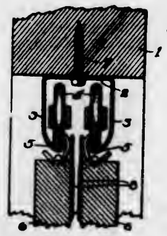
1,428,022. ADVERTISING DEVICE. CHARLES FLECK, Cleveland, Ohio. Filed Jan. 7, 1921. Serial No. 435,600. 2 Claims. (Cl. 40—53.)

1. In an advertising device, including vertically arranged detachable rolls carrying an apron, and independent driving shafts for said rolls; of a continuously rotating driving member including solenoid and armature clutch members, contact elements normally insulated by said apron and adapted to make and break contact at predetermined positions of the latter, electric circuits connecting said contact elements and solenoids, and means for throwing said driving mechanism out of con-



tact with both of said driving shafts to hold said apron in a stationary position and then engaging one or the other of said shafts for continuing the movements of said apron in one direction or the other.

1,428,023. PARALLEL-SLIDING-DOOR CONSTRUCTION. PETER FRANTZ, Sterling, Ill., assignor to Frantz Manufacturing Company, Sterling, Ill., a Corporation of Illinois. Filed June 23, 1920. Serial No. 391,076. 9 Claims. (Cl. 16—103.)



1. In combination with a doorway, a housing secured at its top to the under side of the top portion of the doorway, so that this housing which is formed of sheet metal and provided with parallel tracks is overhead in the doorway, and parallel sliding doors hung in the doorway on said tracks in position to slide past each other.

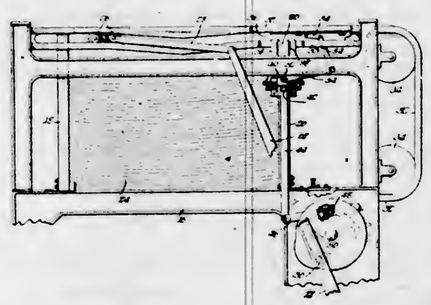
1,428,024. DRAG LINK. HARRY B. GARMAN, Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 30, 1921. Serial No. 525,878. 4 Claims. (Cl. 74—17.)



1. A drag link, comprising a body member consisting of a section of metal tubing; and a tubular end socket member of larger diameter than said body portion, said socket member having a restricted tubular end portion

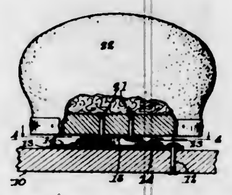
adapted to fit over the tubular body member, the end of said body member within the socket member being upset to form a thickened wall of enlarged diameter fitting within the enlarged portion of the socket member, said thickened wall forming an abutment adjacent the inner end of said socket member.

1,428,025. BACK-BAR TRANSFER MECHANISM FOR SMUT-SHEETING MACHINES. JAMES E. GILBERT and GLENN W. HARRIS, Chicago, Ill. Filed June 7, 1920. Serial No. 387,257. 21 Claims. (Cl. 34—11.)



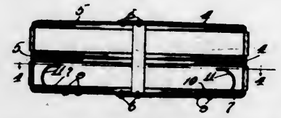
19. In mechanism of the class described, a guide open at one end and along its length so that a bar may traverse said opening, a bar adapted for travel along the guide under its control, a temporary support for the bar at a point remote from the open end of the guide, a bar carrier reciprocatable along the guide toward the support, spring actuated bar gripping mechanism on the carrier adapted to engage two opposite sides of the bar means for moving the bar carrier between two positions in one of which it grasps the bar on the temporary support and in the other of which it still grips the bar now under control of the guide, and automatic means operating the bar gripping mechanism at approximately the last mentioned position to disengage it from the bar and permit it to return to the first position without interference by the delivered bar.

1,428,026. HAT-PAD-SECURING MEANS. FREDERICK J. GREENE, Racine, Wis. Filed May 2, 1919. Serial No. 294,273. 1 Claim. (Cl. 206—9.)



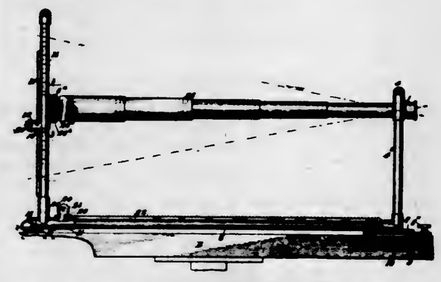
A device of the character described comprising a receiver including an intermediate raised portion provided with a central opening and a plurality of recesses in the raised portion defining inwardly projecting retaining lugs, a keeper provided with a raised intermediate portion and having its portion outwardly of the raised portion recessed to form retaining lugs, the retaining lugs of said keeper being adapted to be inserted in the recesses of said receiver and rotated to bring the lug of said keeper under and in engagement with the lugs of said receiver, raised portions on the retaining lugs of one member for engaging depressions in the retaining lugs of the other member to prevent the accidental disengagement of said lugs from each other, and an article carrying member fixed to the raised portion of said keeper.

1,428,027. ATTACHMENT FOR TIRE CARRIERS. WALTER R. GREEN, Chicago, Ill. Filed Nov. 13, 1920. Serial No. 423,768. 5 Claims. (Cl. 224—29.)



3. In a tire carrier having a compartment adapted to receive a tire therein, a tire holding member secured to the inner wall of said compartment and having a portion extending transversely of said compartment, and means for adjusting said member for accommodating tires of different diameters.

1,428,028. SURVEYING INSTRUMENT. ALVAH D. HADSEL, Iowa Hill, Calif., assignor of one-half to Frederick N. Woods, jr., San Francisco, Calif. Filed Dec. 27, 1920. Serial No. 433,381. 9 Claims. (Cl. 33—20.)



1. A surveying instrument including a frame having upright members longitudinally adjustable means for spacing said upright members apart, an eye piece fixed in a vertical and horizontal plane on one of said upright members of the frame, and stadia hairs on the opposite upright member of the frame with means for adjusting their position both horizontally and vertically with respect to the eye piece, said frame having a fixed pivot about which it may be moved in a horizontal plane, whereby stadia measurements may be made from a stadia rod with the instrument indicating on a plot the horizontal direction and distance of said rod.

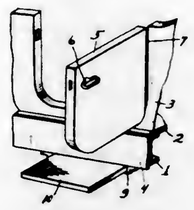
1,428,029. OPTICIAN'S ANGLING PLIERS. PHILIP N. HANSEN, Los Angeles, Calif. Filed May 26, 1920. Serial No. 384,483. 4 Claims. (Cl. 81—15.)



1. Angling pliers having a long and a short jaw each provided with an inwardly bent broad point or terminal, the terminal of the short jaw articulating with the long jaw at a proper distance from said long jaw bent terminal

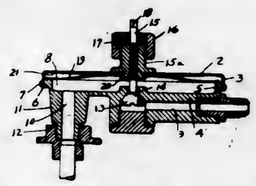
to form an angle-forming contact between said inwardly bent terminals and the inner face of the long jaw, and each of said terminals being provided with a groove adapted to hold in position, the article being acted upon.

1,428,030. AUTO STEP. WILLIAM H. HEATON, Shawnee, Kans. Filed Apr. 11, 1921. Serial No. 460,351. 2 Claims. (Cl. 280—166.)



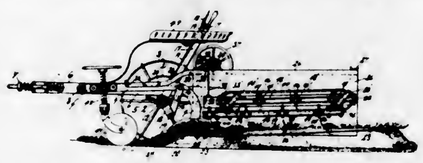
1. The combination in an automobile of a door hinged to the automobile, a crank arm having fixed engagement with the door and pivotal engagement with the automobile, and a sliding step having sliding engagement with said crank arm.

1,428,031. EXPANSION VALVE FOR REFRIGERATING APPARATUS. FRED J. HEIDEMAN, Detroit, Mich., assignor, by direct and mesne assignments, to Household Utilities Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 30, 1920. Serial No. 355,054. 5 Claims. (Cl. 50—23.)



1. In an expansion valve for refrigerating apparatus, a casing having an expansion chamber and an inlet thereto and outlet therefrom, and a diaphragm forming a wall of said chamber, a valve controlling said inlet, actuable by said diaphragm, and normally seated thereby, and a spring within said chamber acting on said diaphragm and assisting its return to normal after deflection.

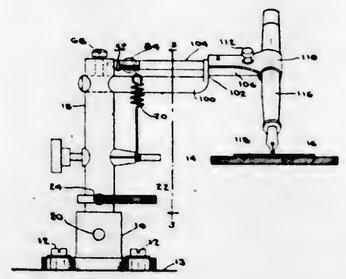
1,428,032. WEED AND GRASS EXTERMINATING MACHINE. JOHN P. HIRD, Redlands, Calif. Filed Apr. 7, 1920. Serial No. 372,076. 17 Claims. (Cl. 55—141.)



4. In a weed and grass exterminating machine, means for cutting and elevating a strip of soil; means for holding the strip elevated; reciprocating teeth adapted to contact with and disintegrate the strip of soil while elevated; and means for operating said teeth; means for raising and lowering said cutting and elevating means, and means for raising or lowering said reciprocating teeth, said raising and lowering means having a resilient connection with said reciprocating teeth for the purpose set forth.

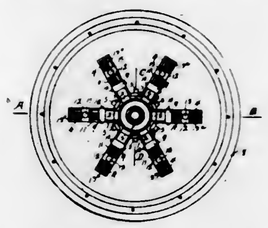
7. In a weed and grass exterminating machine, a frame; a shaft on which said frame is mounted; wheels supporting said shaft; means adapted to cut and elevate a strip of soil; beams connected to said means, a pivotal connection between said beams and said frame, a sleeve on said shaft, arms on said sleeve, a pivotal connection between said arms and said beams, and a lever for actuating said sleeve to raise or lower said plow.

1,428,033. RECORDING TELEGRAPH MACHINE. JOHN A. HULIT, Chicago, Ill. Original application filed Mar. 22, 1917, Serial No. 156,556. Divided and this application filed May 22, 1919, Serial No. 298,939. Renewed Nov. 12, 1921. Serial No. 514,826. 12 Claims. (Cl. 178—89.)



5. In a recording telegraph device, a clip having a curved forward end for holding a fountain pen and provided near its center with a hole adapted to receive a thumb screw, said clip being also provided at its rear end with a centering hole for a centering clip of a printing machine.

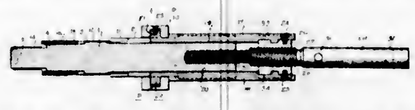
1,428,034. FLOATING-HUB METAL WHEEL. LOUIS FREDERICK JANKE, Madison, Wis. Filed Mar. 8, 1922. Serial No. 542,129. 1 Claim. (Cl. 152—28.)



In a metal wheel, a central hub, bifurcated radial spring spokes secured to the hub, bridges secured in the spokes, blocks slidably disposed in the spokes between the bridges and outer ends thereof, spiral springs located in the spokes between the bridges and blocks, and between the blocks and the outer ends of the spokes, an oil tight outer casing adapted to carry a tire, slidably attached to the hub, and secured to the blocks by sleeves and bolts or rivets.

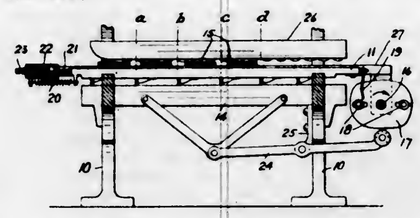
1,428,035. PIPE-THREADING TOOL. ABRAHAM JARMOLOWSKY, Brooklyn, N. Y. Filed Dec. 15, 1920. Serial No. 430,939. 2 Claims. (Cl. 279—2.)

1. A tool comprising a body portion having a plurality of slots therein, a plurality of finger bars disposed in said slots, a collar slidable on the body portion and engaging one end of the finger bars, said body portion having a threaded bore, a shaft having a threaded portion adapted to extend into said bore, an oppositely threaded



portion on said shaft, a block disposed around the oppositely threaded portion, and link connections between the block and the collar, said shaft adapted to be rotated, whereby the collar and the finger bars are moved with respect to the body portion.

1,428,036. FEED MECHANISM FOR WOODWORKING MACHINES. ALBERT A. JOHNSON, Mount Holly, N. J. Filed May 23, 1921. Serial No. 471,881. 4 Claims. (Cl. 144—242.)



1. A feed mechanism for a work piece of the type described comprising a feed bar, means for reciprocating said bar, a pin in said bar, and means for reciprocating said pin in timed relation to the movement of the feed bar to shift the pin into feeding position with relation to the work piece on the forward movement of the bar and to retract the pin out of the line of movement of the work piece on the return movement of the bar.

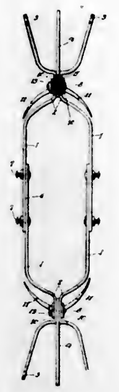
1,428,037. ROPE CLIP. JOHN KNIGHT, Bound Brook, N. J. Filed Mar. 30, 1921. Serial No. 456,920. 9 Claims. (Cl. 24—125.)



4. A rope clip embodying a tubular sleeve provided with a cylindrical exterior and having a fixed interior diameter substantially equal to the diameter of a rope adapted to be received therein, and means extending diametrically through the sleeve at different points in its circumference and into the rope, said means being substantially flush with the exterior surface of the sleeve and so formed interiorly of said sleeve as to expand the rope into tight frictional engagement with the interior of the sleeve to hold the sleeve on the rope, leaving the exterior of the sleeve unencumbered.

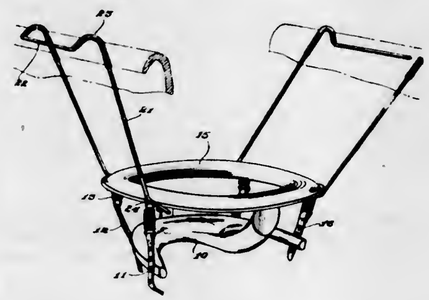
1,428,038. ANIMAL POKE. GEORGE W. KNOX, Oklahoma, Okla. Filed Aug. 24, 1921. Serial No. 494,869. 1 Claim. (Cl. 119—138.)

An animal poke comprising upper and lower yoke members, each consisting of a pair of flat-sided straps sharply offset between their ends and permanently united at the offset portions, the opposite terminals of the yoke members being fastened together whereby to secure the members about the neck of an animal, and the outer extremities of the straps being sharply divergent, a bar secured between the offset portions of a pair of straps and projecting therefrom midway the outer diverging terminals of



the straps and in the plane of the same whereby said terminals and the bar will constitute a wide wire-engaging member, a fork spanning and secured to the offset portions of the straps, and prongs projecting rearwardly from said fork.

1,428,039. CONVERTIBLE SEAT FOR CHILDREN. ELIZABETH A. KRATZ, Johnstown, N. Y. Filed Sept. 26, 1921. Serial No. 503,167. 2 Claims. (Cl. 155—36.5.)

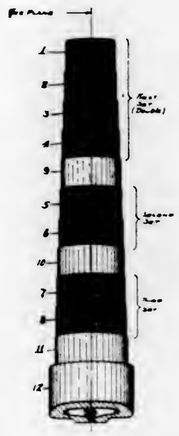


1. In a bathing seat for a child, a seat member, a guard and flexible means on the under side of said guard to which said seat member is attached, a plurality of L-shaped brackets on the under side of said guard arranged in pairs near its edge and provided with horizontal apertures, flexibly connected rods constituting hooks adapted to engage with parallel rail members, the free ends of said hooks being provided with nicked opposing fingers adapted to engage with the horizontal apertures in said brackets, the flexible connection of said hooks tending to draw said fingers together.

1,428,040. TIRE AND METHOD OF MAKING SAME. GEORGE D. KRATZ, Akron, Ohio, assignor to The Falls Rubber Company, Cuyahoga Falls, Ohio, a Corporation of Ohio. Filed May 26, 1919. Serial No. 299,875. 7 Claims. (Cl. 154—14.)

5. In a method of making tires of the character described, the steps which consist in applying circumferen-

tially to a suitable mandrel a strip of fabric cut on the bias first along the median line of such strip and then retarding one edge only of such strip so as to modify the

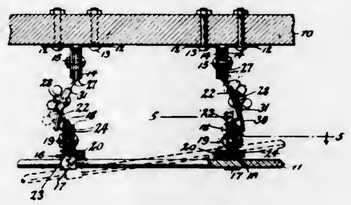


angularity of the component warp-threads therein relatively to the plane of such mandrel before fully applying such strip.

1,428,041. PROCESS FOR THE SEPARATION AND RECOVERY OF METALS FROM METAL ALLOYS. GUILLAUME JUSTINE KROLL, Luxemburg, Luxemburg. Filed Sept. 21, 1920. Serial No. 411,751. 13 Claims. (Cl. 75—1.)

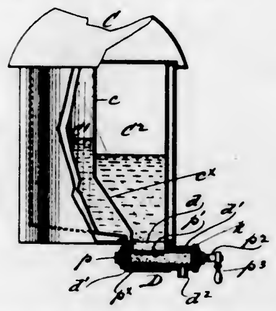
1. The method of separating and recovering metallic constituents from metal alloys (including impure metals), which comprises introducing an alkali-earth metal (including magnesium) into said metal alloys, forming thereby a compound of the alkali-earth metal with the metallic constituents to be separated, this compound having a different melting point from and a specific gravity not more than that of the main metal, and eliminating this compound from the remaining part of the metal alloy under treatment.

1,428,042. MOUNTING FOR SUPPORTING MIRRORS. WILLIAM LA HODNY, Buffalo, N. Y. Filed May 1, 1920. Serial No. 378,166. Renewed May 23, 1922. Serial No. 563,122. 6 Claims. (Cl. 45—97.)



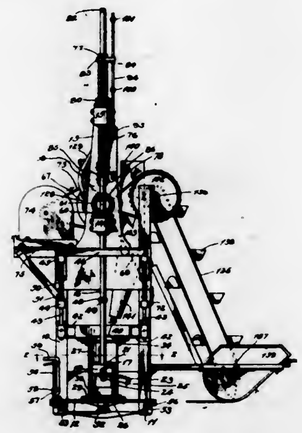
2. A mounting for supporting a mirror comprising two adjusting arms arranged transversely side by side, and each composed of front and rear sections, the opposing ends of which overlap and are curved while the respective front and rear extremities of the same are arranged transversely, means for clamping the overlapping parts of each arm together, and means for pivotally connecting the front and rear ends of said arms to a mirror and a support, respectively.

1,428,043. DISPENSING MEANS FOR BEVERAGES CONTAINING CHOCOLATE, COCOA, ETC. HARRY C. LYONS, New York, N. Y. Filed Dec. 16, 1921. Serial No. 522,779. 2 Claims. (Cl. 221—96.)



1. In liquid dispensing apparatus of the character designated, the combination of a container formed with two compartments, one for the fluid vehicle constituents of the beverage and one for the cacao constituent of the beverage, and a dispensing faucet connected with said container and formed with a rotatable valve plug having a measuring chamber with a discharge port and also with an inlet on one and the same side, the latter communicatable with the discharge port of the cacao compartment, and on the other side with an inlet port communicatable with the discharge port of the fluid vehicle constituent compartment, for the purpose described.

1,428,044. CONCRETE-PIPE MACHINE. GEORGE C. MARTIN, Los Angeles, Calif. Filed Aug. 5, 1916, Serial No. 113,360. Renewed July 31, 1920. Serial No. 400,525. 11 Claims. (Cl. 25—30.)



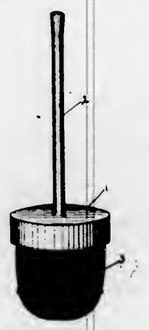
3. A cement pipe machine comprising a rotary trowelling head, a shaft for rotating the same, an actuating shaft adapted to rotate said trowel carrying shaft continuously, a counter shaft parallel to said actuating shaft, gearing for imparting movement to said counter shaft in one direction, gearing for imparting movement to said counter shaft in the other direction, clutches for controlling the direction in which the counter shaft shall be rotated through said trains of gearing, and means operated by the said counter shaft for reciprocating the trowel carrying shaft.

1,428,045. SIGNAL DEVICE. JOHN M. MELE, East Haven, Conn. Filed Nov. 28, 1921. Serial No. 518,293. 1 Claim. (Cl. 116—43.)



In mechanism of the character described; a case substantially cylindrical in cross-section, open at both ends and one side; a cap at each end of said case separably secured thereto and forming a closure therefor, one of said caps having a laterally projecting collar near the center thereof; a display case within the aforesaid case having openings therethrough upon two sides thereof and journaled at one end upon said collar; a stop collar connected with the opposite end of said display case; means for supporting said case at the collar end that projects therethrough and through one of the said caps; a transparent plate covering each of the openings in said display case, one of said plates having letters or figures thereon; a socket threaded into the said collar upon said cap having a part thereon projecting into the display case and another part projecting outside of said collar; a lamp adjustably connected with that portion of the socket within said display case; a plug adjustably connected with that portion of the socket outside of said cap; a spring fixed to said stop collar at one end and to a part fixed in the adjacent cap at the other end; and a fixed part in said latter cap projecting into the path of movement of said stop collar and when engaged by stop shoulders thereon, said display case is limited in its movement in both directions.

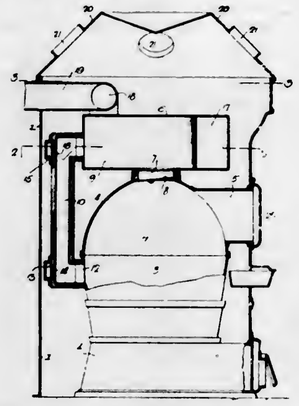
1,428,046. COFFEE-MAKING DEVICE. HUGO MOCK, New York, N. Y. Filed Jan. 6, 1922. Serial No. 527,479. 6 Claims. (Cl. 53—3.)



1. In a coffee making device, a bag of textile fabric, the texture of said bag permitting the ready passage of coffee extract therethrough but not permitting the passage of pulverized coffee, a rigid closure for the top of said bag and a handle attached to said closure and means attached to said bag for expanding the same.

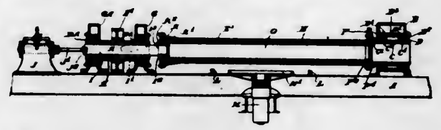
1,428,047. HOT-AIR FURNACE. ABRAM C. MOTT, Jr., Philadelphia, Pa., assignor to Abram Cox Stove Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 1, 1921. Serial No. 519,093. 5 Claims. (Cl. 126—102.)

1. The combination in a hot air furnace of a casing, a fire box and dome therein forming a primary combustion chamber, a radiator above the dome and within the casing, a secondary combustion chamber within the casing communicating with the primary combustion chamber at



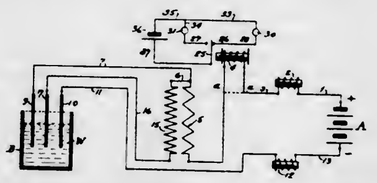
its lower end and with the radiator at its upper end, and an air passage communicating with the secondary combustion chamber and extending outside of the casing.

1,428,048. CENTRIFUGAL CASTING MACHINE. WALTER S. MYERS, Darby, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Nov. 1, 1918. Serial No. 260,645. 4 Claims. (Cl. 22—65.)



2. In a centrifugal casting machine the combination with rotatable elements adapted to engage the opposite ends of a pipe mold, means for adjusting said elements toward and away from one another to grip and release a mold inserted between them, supports along which a mold may be moved toward and away from said rotatable elements and mechanism for raising and lowering a mold from said supports into alignment with said mechanism.

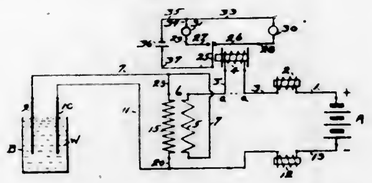
1,428,049. ELECTROLYTIC APPARATUS AND METHOD OF DEPOLARIZING THE SAME. WALTER D. NICKUM, Glendale, Calif. Original application filed Sept. 16, 1919, Serial No. 254,345. Divided and this application filed Feb. 8, 1919, Serial No. 275,860. Renewed Nov. 5, 1921. Serial No. 513,210. 5 Claims. (Cl. 204—1.)



1. In an electrical apparatus comprising a circuit including a source of direct current electrodes in contact with an electrolyte, means for maintaining the current effectiveness of such circuit, consisting of a transformer

having a low tension primary coil in series with and energized by said circuit and a high tension coil in electric connection with said electrodes in such manner as to cause reduction of polarization between the electrodes when the current in the primary coil is reduced by such polarization.

1,428,050. ELECTROLYTIC APPARATUS AND METHOD OF DEPOLARIZING THE SAME. WALTER DANIEL NICKUM, Glendale, Calif. Filed Apr. 21, 1920, Serial No. 375,502. Renewed Nov. 5, 1921. Serial No. 513,211. 9 Claims. (Cl. 204—1.)



1. In an electrical depolarizing apparatus comprising a circuit including a source of direct current and electrodes in contact with an electrolyte, means for maintaining the current effectiveness of said circuit consisting of a transformer having a low tension primary winding in series with and energized by said circuit, and a high tension secondary winding in electrical connection with said electrodes and inductively related to said primary winding in such a manner as to cause a reduction of polarization between said electrodes and said electrolyte when the current in the primary winding is varied by said polarization.

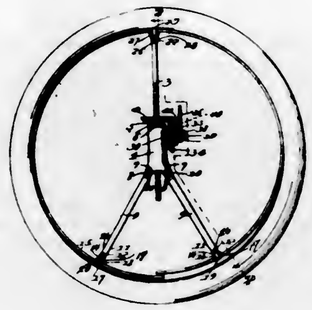
1,428,051. UNCOUPLING DEVICE. CHARLES W. NICHOLAS, Tarentum, Pa., assignor to Walter P. Murphy, Chicago, Ill. Filed Sept. 9, 1920. Serial No. 409,169. 2 Claims. (Cl. 213—59.)



1. In a release rigging for car couplers, an operating lever comprising a rotatable bar mounted upon the end of the car and extending from side to side thereof, integral handles depending from each end of the lever and an integral crank extending centrally from the lever substantially at right angles to the handles formed by bending the rod back upon itself and leaving an eye in the outer bend, and a rigid link passing through the eye of the crank having an open hook at its lower end adapted to engage the lock pin of the coupler and a stop on its upper end adapted normally to prevent disengagement from the crank, and a clip having a tongue entering the eye of the crank and side members adapted to engage the portions of the rod where they contact at the rear of the eye, said clip acting as a bearing for the link in the eye and as a binding member to prevent the portions of the rod from spreading at the rear of the eye.

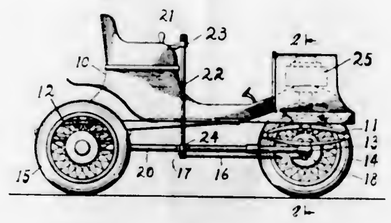
1,428,052. RIM EXPANDING AND CONTRACTING TOOL. WALTER SANDERS NORDEN, Big Rock, Tenn. Filed June 1, 1921. Serial No. 474,065. 1 Claim. (Cl. 157—1.)

In a rim expanding and contracting tool, a body, means at one end adapted for detachable connection with the separable end portions of the rim, a screw extending rotatably through the body, means at the outer end of the screw adapted for connection with the rim substantially opposite the connections of the first means, a bevel gear axially aligned with the body and rotatably connected to the other end thereof and being threaded to the screw, a stub shaft mounted on the side of the



body, a bevel gear on the stub shaft meshing with the first gear, a lever mounted on the stub shaft and having double throw connections with the second bevel gear for rotating it in either direction, whereby the first bevel gear may feed the screw in either direction of the body for expanding and contracting the rim, said stub shaft being detachable from the body, whereby the second bevel gear and its cooperating parts may be detached as a whole from the body.

1,428,053. MOTOR VEHICLE. ALDEN E. OSBORN, New York, N. Y. Filed July 26, 1920. Serial No. 399,107. 12 Claims. (Cl. 180—26.)

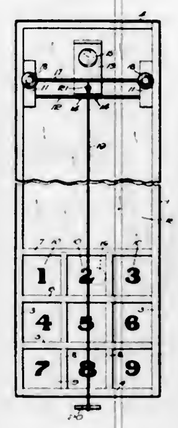


1. In a motor vehicle the combination of a traction wheel, a support for said wheel about which said wheel can rotate, an axle on which said support is pivotally mounted, a spring mounted on said axle, a substantially vertical power transmitting shaft supported by said spring, and means for transmitting motion between said power transmitting shaft and said wheel independently of the angle which said wheel may assume through the turning of said support on said pivotal mounting.

1,428,054. GAME. GEORGE S. PARKER, Salem, Mass. Filed Apr. 12, 1921. Serial No. 460,836. 13 Claims. (Cl. 46—59.)

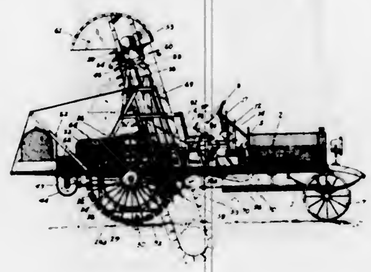
1. A game apparatus comprising as a unitary structure a receiving pocket formation, a pivoted member to

receive a ball or missile upon its upper face and a pulling device attached to the pivoted member and adapted



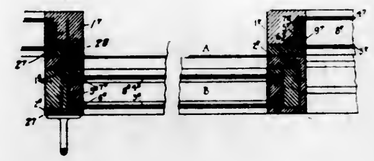
to swing the latter, thereby to project the ball or missile upwardly and forwardly through space toward or into a pocket.

1,428,055. DITCHING MACHINE. MAX PAUL, Stockton, Calif. Filed Apr. 26, 1920. Serial No. 376,465. 11 Claims. (Cl. 37—24.)



11. A ditching machine including a main frame, a rigid digger frame mounted therein and arranged for vertical movement, sprocket wheels at both ends of the digger frame and carrying an endless digger structure, a shaft extending between the sprockets and operatively connected therewith to drive the same, a power driven shaft operatively connected with the first named shaft, the axial lines of said shafts intersecting each other, radius rods mounted on the main frame and connected to the lower ends of the digger frame, whereby such end would normally describe an arc when moved downwardly, grooved guides facing each other on opposite sides of the digger frame and projecting upwardly from the main frame, and rollers carried by the digger frame and riding in the grooves, the latter being shaped to allow movement of the digger frame in a substantially straight vertical path without throwing strain on the shafts at their point of intersection.

1,428,056. TRANSPARENT INSULATION. EMILE JOSEPH PEGLER, New York, N. Y. Filed Feb. 4, 1921. Serial No. 442,476. 7 Claims. (Cl. 20—56.5.)

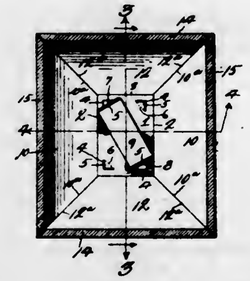


1. Heat insulating means comprising a transparent glass container and a permanently transparent liquid therein having greater heat-transfer-resisting properties than water.

1,428,057. PRODUCTION OF LOW-CARBON FERRO ALLOYS. NAPOLEON PETINOT, New York, N. Y. Filed Sept. 26, 1919. Serial No. 326,605. 7 Claims. (Cl. 204—63.)

7 The process of producing a low carbon ferro-chromium and mixing it with a quantity of chromite ore which contains oxygen in excess of the amount required to combine with the carbon of the alloy and then charging this mixture into an electric furnace and then melting the same in the presence of an acid lining.

1,428,058. DISPLAY DEVICE. EDMUND M. PITTS, Philadelphia, Pa. Filed Sept. 21, 1921. Serial No. 502,277. 6 Claims. (Cl. 211—24.)

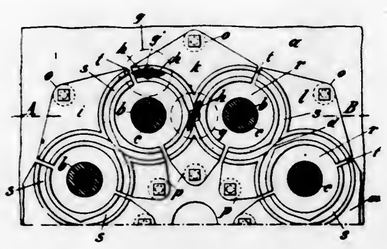


1. A display device formed from a sheet of material, means carried by said sheet of material whereby an article may be attached thereto, said sheet of material being adapted to be affixed to a supporting element to cover different areas thereof and to support articles of different size between the sheet of material and the supporting element.

1,428,059. BRAIDING MACHINE. PAUL RASCHE, U-Barmen, Germany, assignor to Friedrich Klewinghaus, Barmen, Germany. Filed Mar. 25, 1922. Serial No. 546,905. 4 Claims. (Cl. 96—8.)

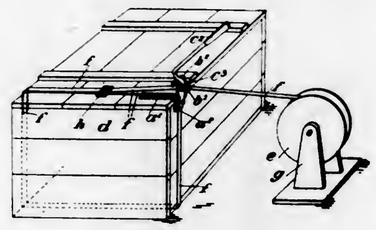
1. In a braiding-machine, in combination, a base-plate, stationary axles arranged in circular fashion on the latter, rotary bosses on said axles, spur-wheels—one at the lower end of each boss—in gear with each other, horn-gears at the upper ends of said bosses, a fixed race-plate arranged between said spur-wheels and horn-gears and consisting of a plurality of separate similar segments of annealed cast-iron forming a continuous race

of circular race portions and located to leave a free space around each boss and a small gap between their



adjacent lateral portions, and distance-bolts to detachably attach said segments to said base-plate, substantially as and for the purpose set forth.

1,428,060. DEVICE FOR TENSIONING THE IRON BANDS OF BOXES. FRIEDRICH CARL REINBOTH, Berlin, Germany. Filed Dec. 1, 1920. Serial No. 427,644. 4 Claims. (Cl. 254—79.)



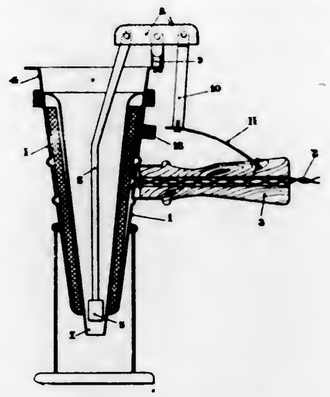
1. In an implement for banding cases with strap iron, the combination of an angular base plate to seat on the corner of a case and a rocking member pivoted to said plate, including a gripping element; of a readily removable hand lever having pivots at each side thereof seated in the rocking member the end of said lever co-operating with said gripping element to grip the strap between them with increasing pressure as the lever is pulled.

1,428,061. MANUFACTURE OF IRON AND STEEL. THOMAS ROUSE, Stamford Hill, England. Filed Nov. 23, 1920. Serial No. 426,061. 10 Claims. (Cl. 204—63.)

1. A method of obtaining iron and steel from iron containing material, which comprises melting the material with a ferro-boro-silicate mixture containing approximately 3% to 4% ferric oxide and 5% to 8% calcined borax to 100% silicate.

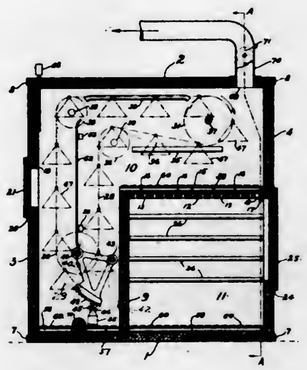
1,428,062. ELECTRIC DISTRIBUTOR FOR SEALING WAX. HENRY SANGLIER, Paris, France. Filed Dec. 23, 1920. Serial No. 432,772. 5 Claims. (Cl. 219—21.)

1. A device for applying sealing wax comprising a crucible for the reception of sealing wax, electric means for heating said crucible, and means at the upper end of said crucible for cooling the fused sealing wax rising to the



top of the crucible and thus preventing the overflow thereof.

1,428,063. BAKER'S OVEN. WILLIAM F. SCHALLER, San Francisco, Calif., assignor of one-half to Elizabeth Schaller, San Francisco, Calif. Filed Nov. 27, 1920. Serial No. 426,855. 5 Claims. (Cl. 107—57.)

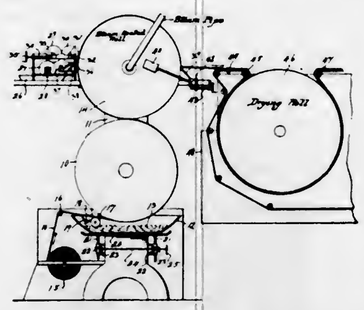


1. In a traveling chain oven, an insulated baking chamber apbstantially in the form of an inverted L, in combination with an auxiliary oven beneath the upper protruding leg of the oven, and independently controlled heating elements in the baking chamber and the auxiliary oven, and variable regulating means whereby the heat from the baking chamber may be admitted to the auxiliary oven in any desired amount.

1,428,064. COATED TISSUE PAPER AND METHOD OF AND MEANS FOR COATING IT. FRANK M. SCHULER, Roselle Park, N. J., assignor to Albert E. Dubey, Brooklyn, N. Y. Filed Dec. 6, 1920. Serial No. 428,814. 20 Claims. (Cl. 91—70.)

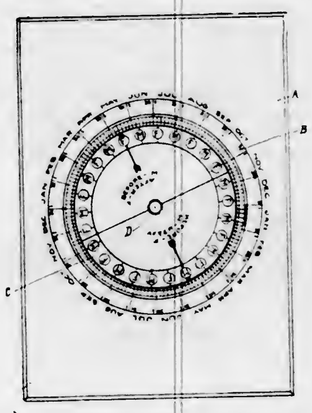
1. As an article of manufacture, tissue paper of a single thickness having one face of a different color from the opposite face.

4. A method of coating the surfaces of tissue paper which consists in applying to one face of the paper a solution of color and a colloidal sizing, and immediately setting the coating by the application of heat thereto.



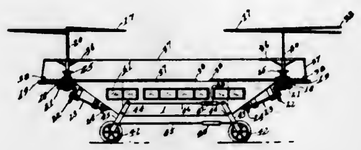
19. Means for coating tissue paper with color comprising two rolls, one of said rolls being heated, the sheet of paper passing over said rolls, means for applying color to one face of the sheet of paper before it passes onto one of said rolls, and means for applying color to the opposite side of the paper while the paper is passing over the heated roll.

1,428,065. SEX CALCULATOR. HUBERT ROYDS TIDSWELL, Winnington, England. Filed Mar. 30, 1920. Serial No. 369,927. 3 Claims. (Cl. 235—67.)



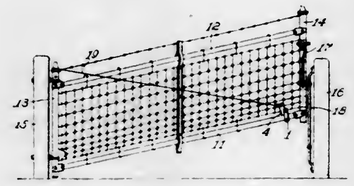
1. In a device of the kind described, the combination of a graduated surface divided into main divisions marked to represent months of the year and further subdivided to represent portions of said months, said main divisions covering a period of at least one year, a second graduated member movably mounted with relation to and supported by the graduated surface, said graduated member being divided into a number of main division according to the number of ovulation periods occurring in the period of at least one year, each main division of the movable member being marked to represent male and female sexes, an indicator associated with said graduated surface and graduated movable member by means of which a chosen subdivision on the movable member may be brought to register with a subdivision on the graduated surface to enable a chosen date on the graduated surface to indicate by means of said indicator one of the alternately marked divisions on the movable member.

1,428,066. FLYING MACHINE. THEODORE VAN VOORST, Touchet, Wash. Filed July 5, 1921. Serial No. 482,635. 4 Claims. (Cl. 244—19.)



1. In a flying machine, the combination of a housing, a self regulating operating mechanism consisting of a movable motor and a differential mechanism contained within said housing, universally mounted propellers operable by means of said mechanism, and means for changing the angle of inclination of said propellers, and a resilient landing means operably attached to said housing.

1,428,067. ADJUSTING DEVICE FOR FLEXIBLE GATES. WALTER K. VOORHEES, Cedar Falls, Iowa, assignor to Standard Manufacturing Company, Cedar Falls, Iowa, a Corporation of Iowa. Filed Apr. 8, 1921. Serial No. 459,533. 2 Claims. (Cl. 39—80.)

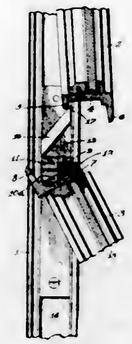


1. The combination with a flexible gate having spaced vertically-disposed stiles and spaced cylindrical beams pivotally connected therebetween, of a U-shaped clamping element slidably mounted on one beam, with its spaced members projecting thereabove, another U-shaped flat bar clamping element with upwardly arched middle part to loosely fit upon said beam, the members of the second-mentioned clamping element being positioned between the upper parts of the first-mentioned clamping element and pivotally connected forward of their middles to and between the said members of the first-mentioned clamping element, and like non-extensible flexible connections each connected diagonally across the gate between an end of one stile and the member of the second-mentioned clamping element on the same side to exercise equal tractions when the gravity of the gate is imposed upon the first-mentioned clamping element to cause the second-mentioned clamping element to tilt, locking said beam between the clamping elements frictionally and releasably.

1,428,068. WINDOW CONSTRUCTION. THOMAS E. WALKER, Detroit, Mich., assignor to Crittal Casement Window Co., Detroit, Mich., a Corporation of Michigan. Filed Apr. 25, 1921. Serial No. 464,303. 11 Claims. (Cl. 20—42.)

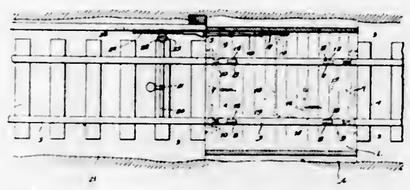
1. In a window, wherein upper and lower sashes are disconnected and independently tiltable and the lower sash holds the upper sash closed when said sashes are in

alinement, the combination of a member adapted to support the lower sash, and means carried by said member



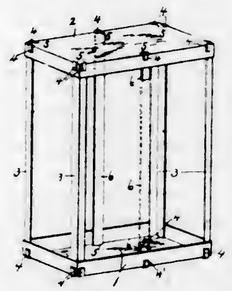
adapted to contact with the upper sash to cause the upper sash to aline with the lower sash so as to be held closed thereby.

1,428,069. TRACK BRAKE FOR MINE CARS. JAMES F. YECKEL, Lawrence, Pa.; Wilma B. Yeckel administratrix of said James F. Yeckel, deceased. Filed Mar. 20, 1920. Serial No. 367,564. 3 Claims. (Cl. 187—97.)



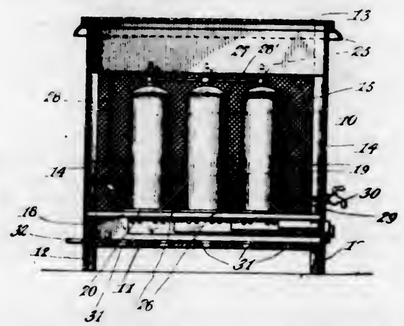
1. Car braking means for mine cages comprising a pair of shafts journaled in the bottom of the cage, a pair of arms on each shaft, horns having tubular parts receiving said arms and parts projecting through the floor of the cage, each of said parts having a straight edge and a beveled edge, springs on the arms for holding the horns in their outer position and means for rocking the shafts to retract the horns below the floor of the cage.

1,428,070. KNOCKDOWN CRATE. CHARLES W. YOUNG, Syracuse, N. Y. Filed Apr. 15, 1920. Serial No. 374,122. 2 Claims. (Cl. 220—4.)



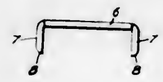
2. A knock-down crate comprising rectangular marginally flanged sheet metal plates of substantially the same size, each corner of each plate being provided with a pair of slots extending along and in close proximity to the inner faces of the flanges of adjacent sides of the plate at an angle to each other, sheet metal corner posts of angular cross section, each having its opposite ends seated against the inner faces of the flanges of the corresponding corners and provided with a pair of bendable tongues passed through the adjacent slots and overturned upon the outer faces of the adjacent flanges.

1,428,071. ELECTRIC HEATER. PIERRE JOSEPH HENRI BERNARD, Montreal, Quebec, Canada. Filed Dec. 9, 1920. Serial No. 429,453. 4 Claims. (Cl. 219—38.)



4. In a heater such as described, a plurality of reticulated side and end walls, a base upon which said walls are mounted, a cover secured to said walls, a support mounted upon the base, a plurality of electric heating elements mounted upon the support, casings for said elements, water jackets surrounding said casings, nipples connecting said water jackets, a tank, a pipe connecting the tank and one of said water jackets, an outlet pipe leading from one of said water jackets, vent openings for said water jackets, said base having openings therein, means for controlling said openings, and means for operatively wiring the heating elements, and a switch for controlling said elements.

1,428,072. SOLE PROTECTOR. WILLIAM H. BETTS, St. Louis, Mo., assignor to Betts Sole Protector Company, St. Louis, Mo., a Corporation of Missouri. Filed May 8, 1920. Serial No. 379,754. 2 Claims. (Cl. 36—74.)

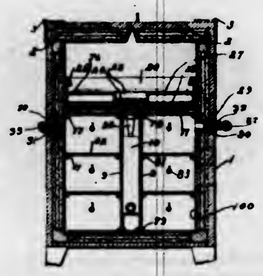


1. A sole protector comprising a relatively thin and flat combined driving head and wear plate and a pair of prongs formed integral with the ends of said plate, said prongs being parallel before being driven and of uniform thickness and widths and being of the same thickness as the driving head, and each prong having its opposing faces parallel and each prong being provided on its lower outer edge with a curved face which in conjunction with the straight inner face forms a driving point, and to cause the prongs to curve inwardly toward each other, the curvature of the edge substantially corresponding with the arc of a circle whose radius is equal to the thickness of the prong.

1,428,073. REFRIGERATOR. LIBBIE BORDEN, Spokane, Wash. Filed June 28, 1920. Serial No. 392,457. 1 Claim. (Cl. 62—56.)

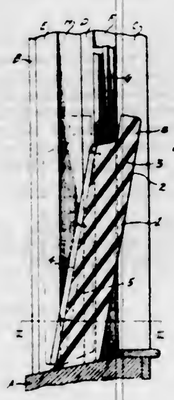
A refrigerator comprising a casing; a filter pan located in the casing and inclined with respect to the horizontal;

a tank located in the casing below the filter pan and having an outlet; a partition in the filter pan and defining compartments, one of which is filled with filtering material, the other of which is located at the lowermost portion of the filter pan; means for establishing com-



munication between the last specified compartment and the tank; and an ice pan supported in the casing above the filter pan, the ice pan being provided at a point remote from said means with a perforated depression discharging into the filtering material.

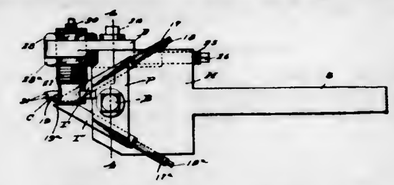
1,428,074. WINDOW VENTILATOR. CHARLES C. BRABANT, Detroit, Mich. Filed Aug. 26, 1921. Serial No. 495,581. 8 Claims. (Cl. 98—31.)



7. A window ventilator comprising separate end members, a series of panels detachably engaged at their ends with the end members for spacing said members apart when in operative position within a window frame, and triangular blocks upon the outer sides of the end members to engage within ways on a window frame and permit a lateral movement of the upper ends of the end members and form stops to limit such lateral movement, the upper ends of said end members being notched to receive a window sash and the upper of said panels being arranged to extend adjacent said sash and inwardly and upwardly beyond the lower edge of the sash.

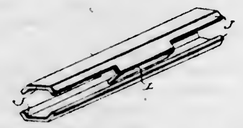
1,428,075. THREAD-CUTTING TOOL AND HOLDER THEREFOR. DAVID BRECKENRIDGE, Victoria, British Columbia, Canada. Filed Jan. 24, 1921. Serial No. 439,577. 6 Claims. (Cl. 29—97.)

1. In combination, a pair of cutting tools having tapered cutting edges, means for sustaining the cutting edges in adjusted position, a chasing tool, and means



for adjustably supporting the chasing tool in working relation with respect to the pair of cutting tools.

1,428,076. PENCIL HOLDER. HARRY ADAM CLARK, Detroit, Mich. Filed Feb. 15, 1921. Serial No. 445,103. 2 Claims. (Cl. 287—108.)



1. A holder for pencils, comprising a single sheet of resilient material bent longitudinally to form a pencil receiving channel, and one of the free longitudinal edges of the sheet having formed therewith a lip adapted to be bent inwardly to be disposed within the channel so that the same will define or limit the extent to which a pencil may be inserted in either end of the channel.

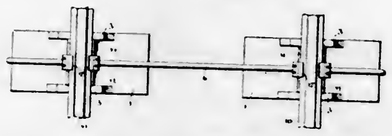
1,428,077. PENCIL. HARRY ADAM CLARK, Detroit, Mich. Filed June 30, 1921. Serial No. 481,720. 2 Claims. (Cl. 120—10.)



1. A pencil comprising a body composed of companion members so formed as to provide a lead receiving channel, slots communicating with the channel, and notches adjacent the slots, said members being secured together so that the lead receiving channel is normally expanded to allow of an adjustment of the lead within the channel, means for contracting the members to effect a constriction of the channel, and means movable within said channel and said slots for projecting and limiting the inward movement of the lead within the channel, said last means comprising a bar slidable within the channel, a

shank within one of the slots and projecting from the side of the body, lugs formed on the shank, and a spring embracing the bar and normally urging the shank so that said lugs will be disposed within said notches.

1,428,078. RAILWAY TIE AND FASTENER. HARRY ADAM CLARK, Detroit, Mich. Filed Jan. 14, 1922. Serial No. 529,186. 10 Claims. (Cl. 238—51.)



2. A railway tie and fastener comprising a pair of wear resisting rigid blocks spaced apart, a tie bar engaging with said blocks at the remote ends thereof for maintaining said blocks in spaced apart end to end alignment and for holding said blocks against spreading, each of said blocks being formed with integral upstanding projections extending longitudinally thereof adjacent to its opposite side edges, and means arranged upon the blocks between said projections and opposite sides of said tie bar for holding the latter against movement transversely of the block, said last named means being adapted to provide a bearing for a rail.

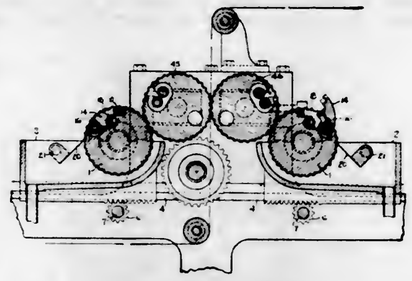
1,428,079. PEN. THAD CLARK, Americus, Ga. Filed Sept. 20, 1921. Serial No. 501,896. 2 Claims. (Cl. 120—47.)



1. A fountain pen comprising a tubular body, a plug secured in one end thereof, a pen point carried by the plug, a port in said plug, a hollow tubular piston movable within the tubular body, a port at each end thereof, manually operated means for closing the port at one end of the piston, automatically operated means for closing the port at the opposite end of said piston and means for automatically closing the port in the tubular body when the pen is in a vertical position and automatically opening said port when the pen is in an inclined position.

1,428,080. PRINTING PRESS. ELLIS W. COOPER, New York, N. Y. Filed Dec. 20, 1919. Serial No. 346,203. 17 Claims. (Cl. 101—154.)

1. A rotary intaglio printing press including in combination a cylinder having a recess therein arranged longitudinally thereof and at a slight angle to the elements of the surface of the cylinder, a thin, flexible intaglio plate stretched about said cylinder with its straight edges inclined at substantially the same angle to its curved edges as said slot makes with the cylinder heads, and means in



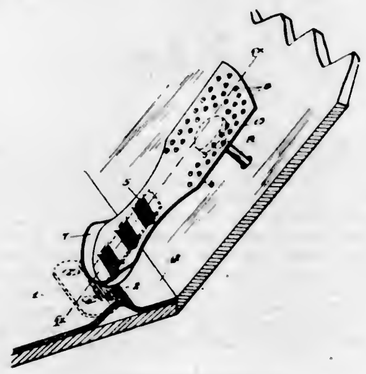
the recess for holding said inclined edges of the flexible intaglio plate and means for stretching the plate circumferentially about the cylinder.

1,428,081. RIFLE. JOHANN FUCHS, Appenzell, Switzerland. Filed Apr. 19, 1921. Serial No. 462,624. 3 Claims. (Cl. 42—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



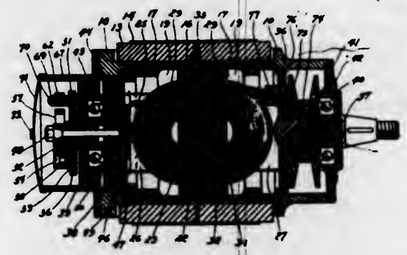
1. A rifle comprising a barrel, a protecting sleeve spaced from and surrounding the barrel and secured thereto at its rear end and forming with the latter an annular intermediate free space extending substantially the length of the barrel, whereby when the rifle is supported, for firing, the barrel will not be subjected to a radial pressure, a sight on the barrel in front of the sleeve, and a sight located adjacent the rear end of the latter.

1,428,082. DETACHABLE PEDAL FOR ACCELERATORS. JOSEPH P. GAMMON, Rochester, N. Y. Filed July 18, 1921. Serial No. 485,693. 2 Claims. (Cl. 74—81.)



1. In a detachable pedal, the combination of a floor plate having a tongue mounted to swing thereon, a foot plate having cleats stamped thereon forming a socket for said tongue by which said foot plate is adapted to swing on said floor plate.

1,428,083. MAGNETO. HARRY FOREST GEIST, Hartsville, S. C. Filed Oct. 30, 1920. Serial No. 420,776. 8 Claims. (Cl. 171—209.)



1. In a wound armature type magneto, the combination of a revoluble armature and windings with a field structure comprising a frame, field magnets and pole shoes, said pole shoes being substantially a hollowed square in shape to reduce the central magnetic areas presented for co-operation with said armature.

1,428,084. CLEANER FOR AND METHOD OF CLEANING METALS. JAMES H. GRAVELL, Elkins Park, Pa. Filed June 4, 1921. Serial No. 475,166. 14 Claims. (Cl. 148—8.)

1. A cleaner for metals consisting of clay and a compatible metal etching acid.

7. A cleaner for metals consisting of colloidal clay a compatible metal etching acid, water, a filler, acetone, and an alcohol of higher boiling point than ethyl alcohol.

1,428,085. COMPOSITION FOR AND METHOD OF PREVENTING METAL FROM RUSTING. JAMES H. GRAVELL, Elkins Park, Pa. Filed June 4, 1921. Serial No. 475,167. 8 Claims. (Cl. 134—39.)

6. A rust preventive coating for metals comprising an admixture of castor oil, ethyl alcohol, and an alcohol boiling at a higher temperature than ethyl alcohol.

1,428,086. PAINT FOR AND METHOD OF PREVENTING HEATED SURFACES FROM RUSTING. JAMES H. GRAVELL, Elkins Park, Pa. Filed June 4, 1921. Serial No. 475,168. 7 Claims. (Cl. 194—44.)

1. A paint for preventing heated metal surfaces from rusting of which one ingredient is a thermally decomposable phosphate in sufficient quantity more than 15% by weight to liberate enough phosphoric acid to form with the metal a substantial coating of phosphoric salts of the metal.

1,428,087. RUST-RESISTING STEEL AND METHOD OF PRODUCING SAME. JAMES H. GRAVELL, Elkins Park, Pa. Filed June 22, 1921. Serial No. 479,683. 7 Claims. (Cl. 148—6.)

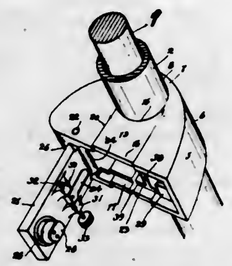
6. A new article of manufacture consisting of a body of steel having a pressed-in surface of phosphate.

1,428,088. SOLDERING SOLUTION. JAMES H. GRAVELL, Elkins Park, Pa. Filed Dec. 20, 1921. Serial No. 523,765. 6 Claims. (Cl. 148—26.)

4. A soldering solution comprising zinc chloride, ammonium chloride and fusel oil.
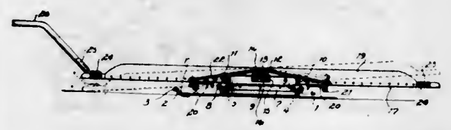
1,428,089. AUTOMOBILE LOCK. WILLIAM THOMAS HALL, Winnipeg, Manitoba, Canada. Filed May 9, 1921. Serial No. 467,970. 7 Claims. (Cl. 70—90.)

7. The combination with the steering column and the post of an automobile, said column and post having openings therein adapted to be brought into registration in the turning of the post, of a two-part clamping member attached to the column, a foldable locking pin carried



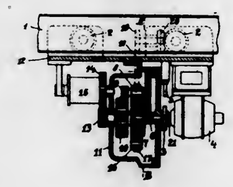
by the clamping member and adapted to enter the registering openings of the post and column and means preventing removal of the locking pin.

1,428,090. TURNTABLE. MAURICE L. HOEFFKEN, Belleville, Ill. Filed May 8, 1922. Serial No. 559,291. 7 Claims. (Cl. 104—44.)



5. A turntable provided with a base, a frame revolubly mounted on said base, an axle supported by said frame, a pair of tracks tiltably mounted on the axle, structural members connecting the tracks on opposite sides of the axle, and truss members extending from one of said members to the other and passing over the axle.

1,428,091. CRAB. ALEXANDER HOFFMANN, Berlin-Reinickendorf, and BERNHARD BOMBORN, Berlin, Germany; said Hoffmann assignor to said Bomborn. Filed June 29, 1920. Serial No. 392,826. 6 Claims. (Cl. 212—131.)

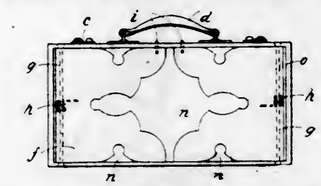


1. A load lifting and traversing device comprising in combination, a motor, a winch, a traversing wheel, a planet wheel gear, comprising a planet wheel carrier and a planet wheel, inserted between said motor and said winch and traversing wheel, a driving wheel for said planet gear disposed coaxially with said planet gear and means for separately locking said planet wheel carrier and said winch, respectively.

1,428,092. HANDBOX. TETSUO HONMA, London, England. Filed Apr. 28, 1921. Serial No. 465,215. 6 Claims. (Cl. 190—11.)

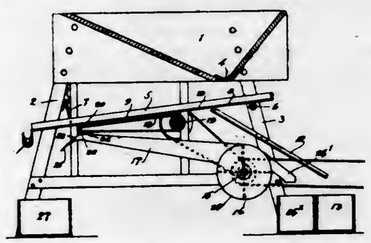
1. In a handbox of the character described, hinged flaps fitted in one side of the box so as to be flush and

continuous throughout the entire extent of the bottom with adjacent surfaces when closed and so that they can



be turned out to serve as legs for converting the box into a stool or a table, substantially as set forth.

1,428,093. GRAIN-CLEANING MACHINE. FRANCIS WILLIAM HUMPHRIES and LORNE EDWIN MACKENZIE, Carman, Manitoba, Canada. Filed July 12, 1921. Serial No. 484,261. 4 Claims. (Cl. 130—17.)



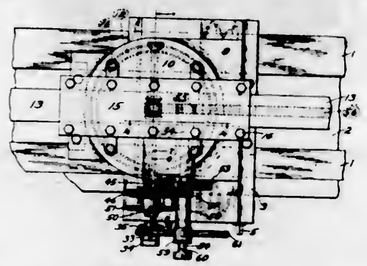
4. In a grain cleaning machine the combination with an endless grain conveyor of a suction flue presenting an inlet disposed beneath the discharge end of the conveyor, and a scraper carried by the flue adjacent said inlet and engaging the conveyor.

1,428,094. SLIP SOCKET. ELMOND C. IMMEL, Leeray, Tex. Filed July 6, 1921. Serial No. 482,656. 3 Claims. (Cl. 294—102.)



1. A slip socket of the character described comprising a body member, a spring disposed in said body member, a supporting member carried by the spring, a cap engaged with the supporting member, said cap having an opening in its central portion and slots communicating with said opening, and chuck jaws including shanks, said shanks being disposed in the slots of the cap, said chuck jaws and shanks being secured and urged toward one end of the body member through the cooperation of the holding member and the cap.

1,428,095. TAPER-BORING MECHANISM FOR LATHES. ARTHUR H. INGLE, Rochester, N. Y. Filed Mar. 6, 1917. Serial No. 152,897. Renewed Jan. 28, 1922. Serial No. 532,495. 18 Claims. (Cl. 82—12.)

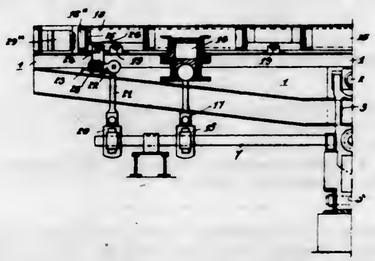


1. Boring mechanism for lathes, comprising horizontal lathe bed ways, a support fitted for movement thereon, a boring bar of substantial length slidably fitted in said support for a substantial range of endwise sliding operative movement and mounted also for swiveling adjustment, said boring bar formed to carry a tool at its forward end and movable to project a substantial distance from said support whereby it is adapted to bore an elongated passage in a work piece, and means for transmitting endwise operative movement to said boring bar from the lengthwise extending feed shaft of the lathe throughout the range of swiveling adjustment of the boring bar.

1,428,096. CAPSULING OF CORKED BOTTLE MOUTHS AND A COMPOSITION OF MATTER USABLE THEREFOR. SAMUEL JOSEPH INGRAM, Sydney, New South Wales, Australia. Filed Mar. 22, 1921. Serial No. 454,438. 4 Claims. (Cl. 134—1.)

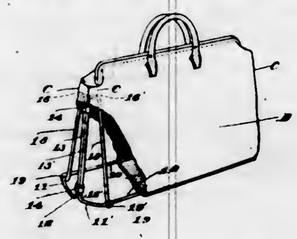
4. A liquid capsuling composition, comprising one ounce of Glauber's salt, one pound of sugar, one pound of gelatine, one pound of talc, one-half pound of wetted whiting, and two pints of water.

1,428,097. MOLDING AND/OR COMPACTING PLASTIC, FLUID, POWDERED, GRANULAR, OR THE LIKE SUBSTANCES. PETER BURD JAGGER, London, England. Filed Feb. 25, 1921. Serial No. 447,862. 18 Claims. (Cl. 25—41.)



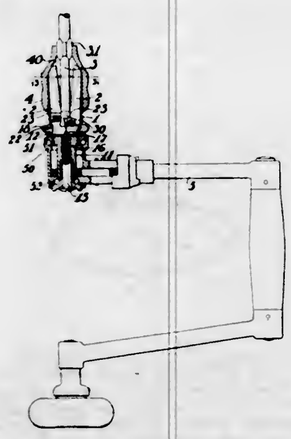
1. In a shaking or vibratory machine of the kind described for molding and/or compacting plastic, or fluid, or powdered, granular or the like substances, a main vibratory support, means for imparting movement to said support, a platform on said support, said platform having an independent horizontal vibratory movement on said support, and means for imparting positive and controlled horizontal vibratory movement to the said platform relatively to the support and while vibrating therewith.

1,428,098. END SUPPORT FOR TRAVELING BAGS. WILLIAM JAMES, Boston, Mass. Filed Jan. 31, 1922. Serial No. 532,995. 5 Claims. (Cl. 190—49.)



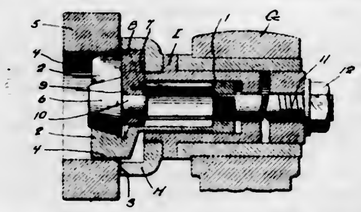
1. In combination with a bag comprising a bottom, sides and ends normally disposed in a perpendicular position; a bag support comprising a base, perpendicular supports formed on either end thereof, a horizontal top disposed at approximately ninety degrees to the long dimension of said base, and formed from said perpendicular supports, a strut formed from said top extending down at an angle to connect with sides of said base, hinges binding said perpendicular supports together.

1,428,099. BRACE AND BIT THEREFOR. JOHN V. JANIN, Seattle, Wash. Filed Aug. 5, 1920. Serial No. 401,458. 4 Claims. (Cl. 279—36.)



1. A bit holder for braces having two clamping levers pivoted at their inner ends and provided upon their opposed faces adjacent their pivoted ends with flat bit holding surfaces, and a sleeve embracing and adjustable lengthwise of said levers and having cam surfaces engageable with the ends of the clamping levers opposite to their pivots, said sleeve having at its outer end and spaced from said bit-holding surfaces of the clamping levers, surfaces adapted for supporting engagement with the bits placed therein.

1,428,100. INTERNAL CHUCK. JOHN O. KAHL, Philadelphia, Pa. Filed May 28, 1919. Serial No. 300,321. 3 Claims. (Cl. 279—51.)



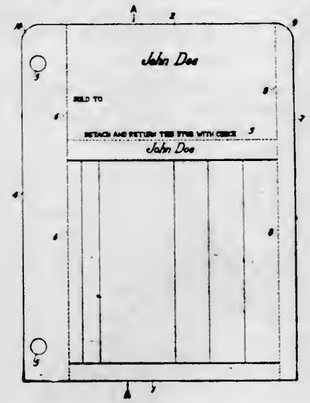
1. An internal spring collet comprising a plurality of spring jaws having a tendency to non-gripping position, a cone device stationary between said jaws, means providing a truing surface surrounding said jaws, and means operable to move the jaws relative to said cone device in a manner to spread the jaws into engagement with the work and for moving the work into engagement with said truing surface.

1,428,101. FASTENER AND METHOD OF MAKING THE SAME. WOLF KAHN, Newark, N. J. Filed Feb. 2, 1920. Serial No. 355,600. 6 Claims. (Cl. 24—101.)



6. A fastener of the class described including a substantially straight twisted wire shank having a pair of wire loops at each end thereof, the loops of each of said pairs extending in opposite directions at an angle to said shank to form fastener terminals at opposite ends thereof.

1,428,102. INVOICE SHEET. WILLIAM ASHLEY KELLY, Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 24, 1920. Serial No. 432,949. 3 Claims. (Cl. 281—43.)



1. For use in a typewriting machine, an entry-sheet having rounded right and left upper corners and comprising a body part for having successive entries typed thereon, a lateral filing marginal part at one side of the body part and detachably connected therewith along a weakened line of detachment providing for easy detachment of the filing

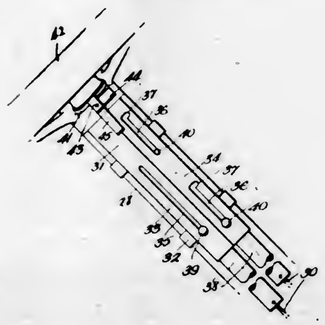
marginal part from the body part when the entries on the body part are complete, and a lateral extension projecting from the other side of the body part and detachably connected therewith along a weakened line of detachment providing for easy detachment of said lateral extension from the body part when the entries on the body part are complete, one of said upper rounded corners of the entry-sheet being carried by the filing marginal part, and the other upper rounded corner of the entry-sheet being carried by said lateral extension, whereby said round corners will facilitate the repeated insertion of the entry-sheet in the typewriting machine, and also whereby the upper end of the body part will be left in symmetrical shape with square right and left upper corners after the detachment therefrom of said filing marginal part and said lateral extension.

1,428,103. LIGHTING SYSTEM FOR CINEMATOGRAPHS. AUGUST KÖHLER, Jena, Germany, assignor to the Firm Carl Zeiss, Jena, Germany. Filed Aug. 13, 1921. Serial No. 492,127. 1 Claim. (Cl. 88—24.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



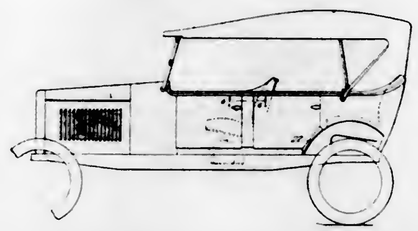
In a lighting system for cinemtographs having a projecting system which consists of a plurality of objectives disposed side by side, a source of light, a condenser system, a collective lens system, lying approximately at the locus of the image of the source of light formed by the said condenser system, a film-window and an auxiliary condenser system disposed behind the said collective lens system immediately adjacent to the said film-window, the said collective system imaging the exit pupil of the condenser system approximately in the plane of the film-window, the said auxiliary condenser system consisting of two parts, the front part being a collective lens, the front focal point of which lies at the locus of the said collective system, whilst the hinder part consists of a plurality of collective lenses equal in number to the projection objectives, each of which lenses is adapted to image in the entrance pupil of the appertaining projection objective the image of the said source of light formed by the said condenser system.

1,428,104. SIGNAL FOR AUTOMOBILES. WILLIAM H. KROLL, Bowler, Wis. Filed Oct. 11, 1920. Serial No. 416,036. 1 Claim. (Cl. 116—36.)



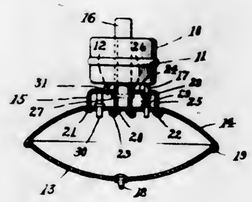
An actuating device for an automobile indicating member, comprising a pair of sleeves having slots of different length therein, one of said sleeves having its slots provided at their upper ends with bayonet slots whereby the actuating member is held in operative position, an operating member slidably mounted in each and having a part engaging its respective slot, and means to release the actuating member.

1,428,105. AUTOMOBILE BODY STRUCTURE. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 19, 1920. Serial No. 352,277. 18 Claims. (Cl. 296—28.)



1. In an automobile body structure, a body frame including longitudinally extending body sills, a tonneau panel connected at its lower edge to said body sills and provided with inwardly extending depressions in the side portions thereof to form wheel housings, in combination with reinforcing members connected to said body sills and having vertically extending portions to which the forward vertical edges of the tonneau panel are connected, said reinforcing members having portions inwardly depressed to conform to the wheel housing depressions of the tonneau panel.

1,428,106. TOY TOP. FRANK L. LINDSTROM, Bridgeport, Conn. Filed Nov. 5, 1920. Serial No. 422,012. 7 Claims. (Cl. 46—32.)

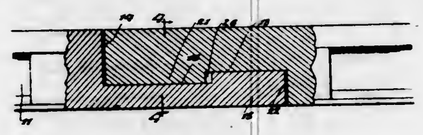


1. A top body including a lower section having a centrally positioned spindle, an upper section secured thereto and having a pair of centrally positioned, concentrically arranged annular grooves provided with perforations, a cap and a stem adapted to seat in said grooves, respectively, and lugs carried by said cap and stem adapted to pass through said perforations and to be bent down against said upper section.

1,428,107. RAIL JOINT. HERBERT L. LYLE, Brookville, Pa. Filed Nov. 17, 1921. Serial No. 515,828. 7 Claims. (Cl. 238—235.)

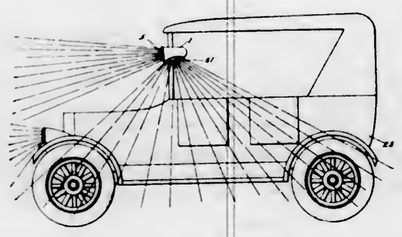
1. In a rail joint, a rail end having an overlapping top portion and another rail end having a corresponding

overlapping bottom portion, a pair of fish plates integral with each of said rail ends and extending part way



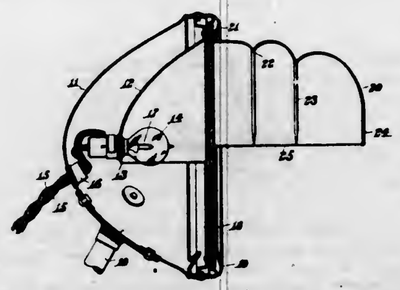
along said overlapping portions and adapted to embrace the corresponding web of the opposing overlapping portion.

1,428,108. SPOTLIGHT FOR AUTOMOBILES. CHARLES A. MADDUX, Portland, Oreg. Filed July 19, 1921. Serial No. 485,905. 4 Claims. (Cl. 240—7.)



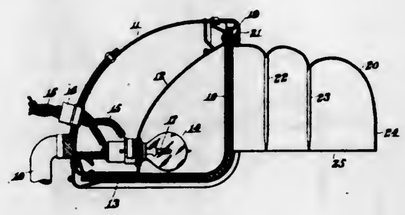
1. The combination with means of support, of an automobile side lamp comprising a casing provided with openings on front and side, respectively, and means of lighting the same from within, the said side opening being a narrow elongated slot-like aperture, and a cooperating reflector for said side opening adapted to distribute rays of light spreading longitudinally of said aperture but restricted to a flat beam tranversely of said aperture, substantially as and for the purpose set forth.

1,428,109. HEADLIGHT. CHARLES GILBERT MELANSON, Lynn, Mass. Filed Aug. 16, 1921. Serial No. 492,806. 6 Claims. (Cl. 240—41.)



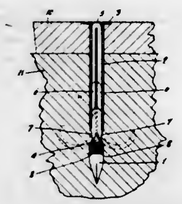
1. The combination with a casing, a lamp therein; a reflector within said casing extending over the upper interior wall thereof and terminating at a point adjacent the bottom of said lamp; and a visor in front of said reflecting surface and having a plurality of concaved depressions in the rear face thereof each provided with a mirrored surface adapted to deflect certain of the lamp rays rearwardly against said reflector.

1,428,110. HEADLIGHT. CHARLES GILBERT MELANSON, Lynn, Mass. Filed Aug. 16, 1921. Serial No. 492,807. 4 Claims. (Cl. 240—41.)



1. The combination with a casing open at the front and bottom, a reflector within said casing having a horizontal rearward extension; a lamp socket supported by said reflector and parallel to said extension; a lamp in said socket; an angular lens supported by said casing and closing the front and bottom thereof, the bottom portion of said lens being closely adjacent said lamp; and a vizor in front of said lens, the lower edge of which is in alinement with the axis of said lamp.

1,428,111. NAIL FOR PACKING CASES AND THE LIKE. FRANK MOLESWORTH, Auckland, New Zealand. Filed Sept. 16, 1920. Serial No. 410,601. 1 Claim. (Cl. 85—23.)

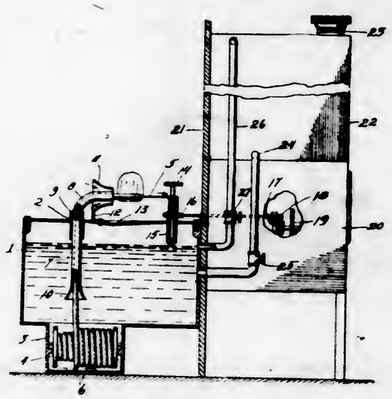


A non-removable nail comprising a hollow tubular member having a head at its upper end and a pair of diametrically opposite holes at its lower end; a solid piercing member separate from said hollow member and reduced at its upper end to fit and be secured to the hollow member, said reduced portion of the solid piercing member having a pair of cam surfaces one for each hole, said piercing member having a sharpened point at its other end; and an anchoring member mounted within said hollow member and having, split legs one in contact with each of said cam surfaces, said cam surface causing the legs to move outwardly when the anchoring member is given an independent driving movement.

1,428,112. HORIZONTAL-WICK BURNER. BERNARD MULLER-THYM, Kansas City, Mo. Filed June 8, 1920. Serial No. 387,867. 6 Claims. (Cl. 67—36.)

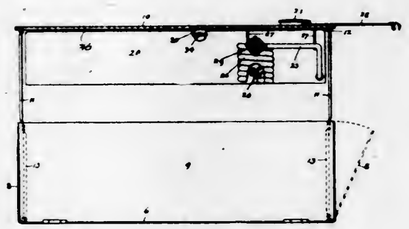
1. A burner comprising an oil receptacle, a reel, a flexible wick extending through the oil in the receptacle

from the reel, a wick guide for the oil saturated wick and winding drum spaced horizontally apart, and means



for confining the burning zone of the wick to a point between the drum and said oil receptacle.

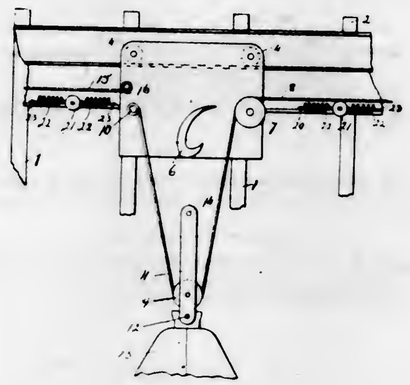
1,428,113. FOLDABLE STOVE. DAREL NEAL, Redondo Beach, Calif. Filed Nov. 6, 1920. Serial No. 422,304. 5 Claims. (Cl. 126—38.)



1. In a collapsible stove, a base having a rigid and a hinged end wall and hinged side walls, arms hinged at their lower ends to said base in spaced relation, a stove plate, a heating element carried by said plate, legs hinged to said plate and hingedly connected to the upper ends of said arms, and means for releasably holding the said arms and legs in alinement, said stove plate adapted to rest on the free edge of said walls when in collapsed position.

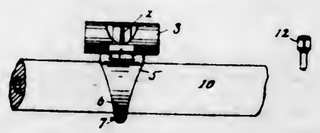
1,428,114. DREDGING-HOIST TROLLEY. JOSEPH PRANA, Philadelphia, Pa. Filed July 21, 1919. Serial No. 312,418. 4 Claims. (Cl. 212—102.)

1. In an apparatus of the character described a trolley, means for supporting said trolley, a hanger pivoted to the dredge, a cable so attached to the trolley as to have a loop formed therein, a shive wheel journalled in the hanger, over which the loop in said cable runs, a stationary supporting cam carried by the trolley, and means for causing said hanger to so enter into engagement with



the surfaces of said supporting cam as to be locked thereon and unlocked therefrom.

1,428,115. SIGHT FOR FIREARMS. ARTHUR PERRIN, Brookline, Mass. Filed Apr. 26, 1921. Serial No. 464,511. 3 Claims. (Cl. 33—50.)



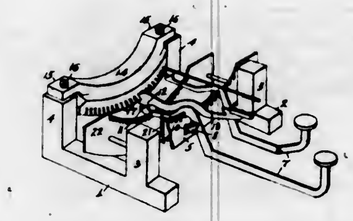
1. A foresight for firearms and the like comprising in combination with the barrel and with a suitable rear sight, a convex lens and holder therefor mounted on said barrel and adapted to be moved lengthwise thereof for adjustment of distance from said rear sight.

1,428,116. FENDER ATTACHMENT FOR AUTOMOBILES OR OTHER VEHICLES. WILLIAM H. RAPEPORT, Philadelphia, Pa. Filed July 30, 1921. Serial No. 488,666. 5 Claims. (Cl. 293—55.)



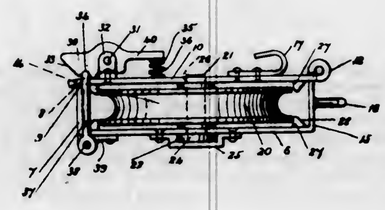
2. In a fender attachment for a vehicle, a fender, an arm adapted to carry the same, means for connecting said arm with a frame member of the vehicle, said member being formed of sections, a headed device adapted to connect firmly said sections, a plate-like member interposed between said arm and frame member formed with a channel closed upon all sides to receive and house the head of said device and remove it from contact with said arm the head of said device abutting against the bottom wall of said channel, and means for clamping said arms and plate-like member to said frame member of the vehicle.

1,428,117. TYPE-BAR KEY-LEVER MECHANISM. LYMAN R. ROBERTS, Rutherford, N. J., assignor to L. R. Roberts Typewriter Company, Stamford, Conn., a Corporation of Delaware. Filed Aug. 7, 1917. Serial No. 184,850. 3 Claims. (Cl. 197—22.)



1. In a typewriter, and in combination a relatively stationary frame having supporting uprights, a readily removable type bar segment in which the type bars are pivotally mounted, hung between the supporting uprights and having supporting projections which cooperate with the supporting uprights, and operating members for the type bars separate therefrom and normally engaging the same from below, whereby the type bars are freely separable from their respective operating members when the segment is removed.

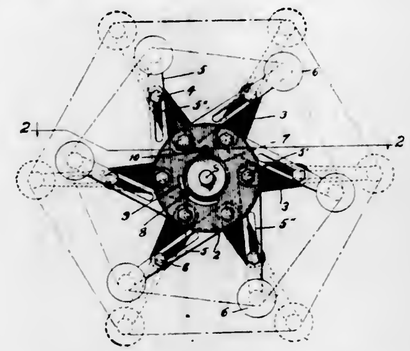
1,428,118. SNATCH BLOCK. RAY ROBESON and JOHN LEE, Withee, Wis. Filed Sept. 6, 1921. Serial No. 498,608. 3 Claims. (Cl. 254—193.)



1. In a snatch block, a stationary side plate provided with end plates arranged at an angle to it and having also an anchoring device at one end, a movable side plate hinged to one end plate adjacent to the said anchoring device and having at its free end portion means for engaging with the other end plate, and a bail pivoted to the stationary side plate adjacent to the last said end plate and adapted to overlap the free end portion of the hinged side plate and lock it in its closed position when turned crosswise of the said side plates.

1,428,119. YARN REEL. CHARLES E. ROGERS, New London, Conn. Filed Oct. 11, 1921. Serial No. 507,072 5 Claims. (Cl. 242—113.)

1. In a yarn reel, a shaft, a disk fixed on the shaft and having radial arms, bolts carried by the arms, a disk rotatable on the shaft, arms pivoted at their inner ends to the rotatable disk and having spools on their outer ends and having slots receiving the respective bolts, a coil spring between the disks secured at one end to the fixed disk and adjustably secured at its opposite end



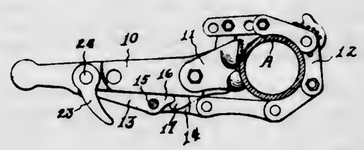
to the rotatable disk, a stop on the fixed disk, and a latch carried by the rotatable disk and engaging the stop.

1,428,120. COMPOUND FOR HARDENING COMMON ROSIN AND METHOD OF USING SAME. WILLIAM HENRY SCHEEL, Mount Vernon, N. Y. Filed Mar. 25, 1922. Serial No. 546,932. 3 Claims. (Cl. 134—26.)

1. A composition of matter consisting of common rosin and coral lime, in the proportion of approximately one per cent of the latter.

3. The method which consists in compounding coral lime with common rosin in fusion, for the purpose of hardening the rosin first, and then diluting the said rosin compound, while in fusion, with an adequate liquid solvent, to the proper consistency of a rosin varnish.

1,428,121. RELEASING DEVICE FOR PIPE WRENCHES. NELSON K. SMITH, Dallas, Tex. Filed Sept. 30, 1921. Serial No. 504,454. 6 Claims. (Cl. 81—68.)

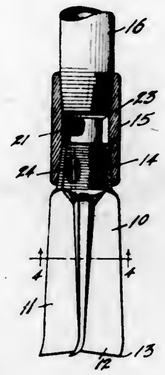


1. The combination with the handle lever, jaw, and chain of a pipe wrench, of a release lever pivotally connected with the end of the chain and free from the handle lever, a lug on the pivoted end of the release lever adapted to engage the handle lever and fulcrum thereon for drawing the chain taut about an article, and a keeper pivoted on the handle lever and snugly engaging on the outer end of the release lever.

1,428,122. WELL-DRILLING BIT. PRIMUS W. SMITH, Junction City, Tex., assignor of one-eighth to John J. Bookhout and James R. Bookhout, both of Dallas County, Tex. Filed June 20, 1921. Serial No. 478,779. 5 Claims. (Cl. 255—61.)

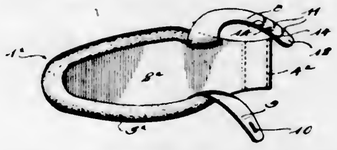
1. In a deep well drilling bit, a plurality of elongated blades, each having its inner vertical edge extending from end to end and contacting with the inner vertical

edges of the other blades along the vertical axis of the drill, each blade projecting radially from the center of the drill and having a radial cutter at its lower edge



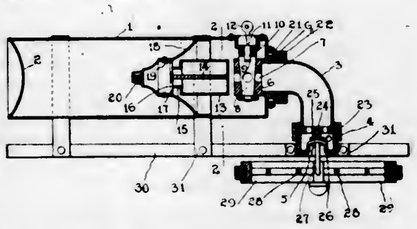
extending from the lower end of its inner vertical edge, a segmental head sector at the upper end of each blade, said sectors uniting in a cylindrical head, and means for fastening the sectors together.

1,428,123. SHOE SANDAL SOLE. JOSEPH P. STEELE, Chicago, Ill. Filed Mar 24, 1921 Serial No. 455,129. 2 Claims. (Cl. 36—63.)



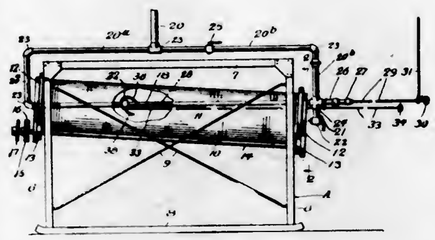
1. An article of the class described comprising a sandal overshoe provided on the outer face of its bottom with a transverse open-ended pocket, and a one-piece flat spring removably arranged in said pocket and having its ends projected beyond the open ends of the latter, said ends of the spring being bent upon themselves and rolled to form yieldable jaws, designed to grip the shoe sole to retain the protector in place.

1,428,124. ALARM. FRANK C. STINZING, New York, N. Y. Filed May 4, 1921. Serial No. 466,778. 2 Claims. (Cl. 116—33.)



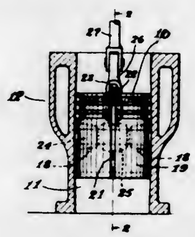
1. An alarm for indicating the unauthorized moving of a motor vehicle comprising a compressed air supply, a controlling valve therefor, a whistle, pressure release means, and fixed means co-acting with a traction wheel of the motor vehicle to actuate the pressure release means, for sounding the whistle.

1,428,125. VEGETABLE-WASHING MACHINE. WADE L. STREET, Chicago, Ill., assignor to The T. A. Snider Preserve Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 10, 1922. Serial No. 550,990. 4 Claims. (Cl. 146—14.)



2. In a vegetable washer embodying a rotatory cylindrical screen and a perforated water spray pipe, a collar rotatively and slidably mounted on said spray pipe, a pipe cleaning implement secured to said collar, and an actuating rod to which said collar is attached.

1,428,126. EXPANDIBLE LAP. ROBERT S. TAYLOR, Seattle, Wash. Filed Apr. 14, 1921. Serial No. 461,406. 1 Claim. (Cl. 51—206.)



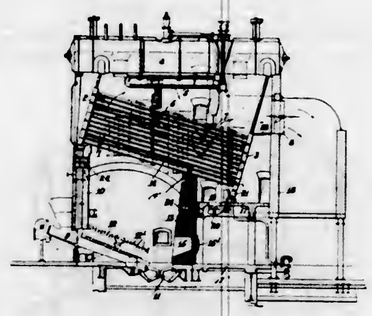
An expanding lap comprising a hollow cylindrical body having a concentrically disposed hole formed in the end wall thereof and a longitudinally and diametrically disposed slit formed in the side and end walls thereof, said end wall having a threaded tapered hole formed therein in alignment with the diametral position of said slit and at a point adjacent the outer end thereof, and an expanding plug adapted to be threadably engaged in said tapered hole.

1,428,127. REENFORCED COMPOSITE BUILDING BLOCK. UNO E. TUOMI, Dallas, Tex. Filed Apr. 10, 1922. Serial No. 551,019. 3 Claims. (Cl. 72—44.)



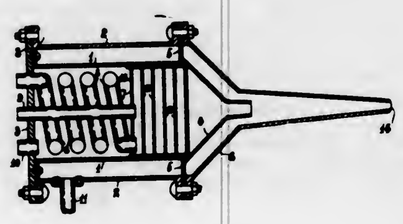
1. A building block, a pair of substantially parallel slabs spaced apart, and bonding elements embedded in and connecting said slabs, each of said elements being bent upon itself to form a loop and a pair of intersecting bonding arms terminating in elongated substantially right angle extensions, the extensions of each element being disposed longitudinally within the slabs and received by the loop of the other element.

1,428,128. BOILER FURNACE. BENJAMIN F. WOOD, Maplewood, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed May 28, 1917. Serial No. 171,403. 4 Claims. (Cl. 110—98.)



4. A steam boiler furnace comprising a stoker, an air supply duct for delivering air in close proximity to the inner face of the furnace side walls, a bridge wall at the rear of the combustion chamber and openings in said wall for the purpose described.

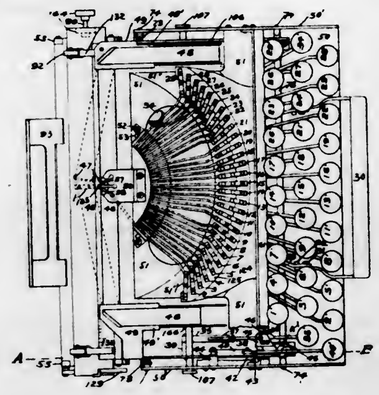
1,428,129. BURNER. JOHN WILLIAM BLACKBURN BALFOUR, London, England. Filed May 4, 1920. Serial No. 378,719. 2 Claims. (Cl. 158—74.)



1. In a fuel burner, a pair of cylinders one within the other, an end plate closing one end of said cylinders, a pair of funnel-shaped caps one inside the other closing the opposite end of said burner and forming a burner nozzle, the inner cylinder being divided transversely into two compartments by a suitable partition having an aperture therein, means for admitting fuel extending through said end plate and terminating in one of said compartments, means for admitting preheated air extending through said end plate and terminating in the other of said compartments, means for admitting steam into the space formed between said cylinders, and baffle plates having apertures therein in the first-mentioned compartment.

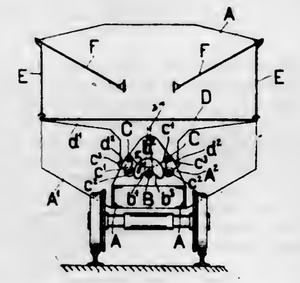
1,428,130. TYPEWRITER. CHARLES W. BARNABY, New York, N. Y. Filed Aug. 3, 1916. Serial No. 112,951. 59 Claims. (Cl. 197—26.)

1. In a typewriter, stepped rows of keys, a platen lying below and substantially tangent to the horizontal plane of the top row of keys, type-bars connected to said keys and operating on said platen, and a paper rack pivoted



on an axis below said plane and movable on said axis into folded position below said plane.

1,428,131. SELF-DISCHARGING CAR. KARL BARTH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Jan. 14, 1921. Serial No. 437,324. 3 Claims. (Cl. 105—260.)

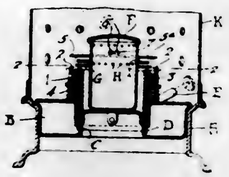


1. A self-discharging receptacle, comprising a bottom member revolubly mounted with respect to a longitudinal axis of said receptacle, a plurality of supporting crank members cooperating with said bottom member, a central cam device selectively locking said bottom supporting crank members in place, said cam device automatically releasing one of said supporting cam members from supporting engagement with said bottom member on the discharging action of said receptacle on a predetermined motion of said cam, and means on said cam device for returning said released crank member to supporting engagement with said bottom member on the return of said bottom member to the filling position of said receptacle.

1,428,132. SAFETY DEVICE FOR OIL HEATERS AND LAMPS. WILLIAM K. BASSFORD, Metuchen, N. J. Filed Oct. 15, 1921. Serial No. 507,860. 12 Claims. (Cl. 67—77.)

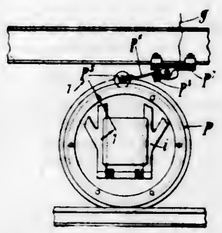
1. The combination with a liquid fuel heater or lamp, of an extinguishing member, means for actuating said extinguishing member to extinguish the flame of the heater, means for holding said extinguishing member normally in inoperative position against the action of said actuating

means, and means including a fusible element for connecting said holding means to the extinguishing member so that when the heater reaches a predetermined tempera-



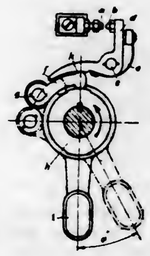
ture said fusible element will melt and release said extinguishing member from said holding means to permit said actuating means to move said extinguishing member to extinguish the flame.

1,428,133. CURRENT COLLECTOR FOR RAILWAY VEHICLES. RENÉ BIENVENÜE and JOSEPH BIENVENÜE. Paris, France. Filed Apr. 15, 1920. Serial No. 374,098. 3 Claims. (Cl. 191—1.)



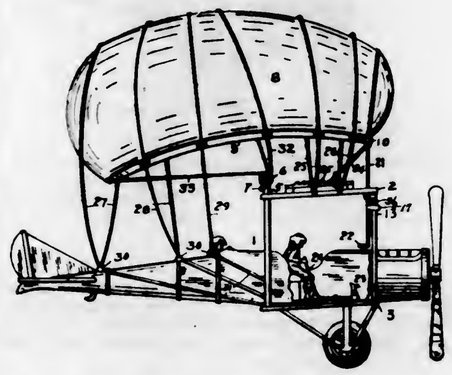
1. A current collector for railway vehicles, comprising: a rotary shoe secured on a carrying wheel of any vehicle and constituted by a metal ring mounted on the side of the wheel, this ring being insulated from the wheel by a sheet of insulating material and attached to the wheel by insulated fastening means—a device adapted to transmit within the vehicle the current collected by the ring, this device being constituted by a roller running in a groove provided on the periphery of the ring and secured by a spring to the frame of the vehicle by means of an insulated securing device.

1,428,134. ELECTRIC IGNITION APPARATUS. FREDERIC BILLON, Solothurn, Switzerland. Filed July 8, 1918. Serial No. 243,893. 7 Claims. (Cl. 200—19.)



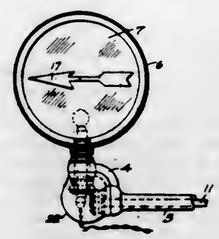
1. In apparatus for varying the point of ignition in stationary coil electric ignition apparatus comprising in combination a make and break contact device with a spring controlled bell crank pivoted lever, a cam with projections thereon attached to the axle of the induction magnet, a hand operated circular member in an axial line with the said cam and having an extension lever and a projection, and a curved intermediate member carried by said projection, such curved member having a projection on each face thereof, one of the last named projections engaging the cam and the other projection of the curved member engaging said bell crank lever.

1,428,135. SAFETY DEVICE FOR AEROPLANES. JOHN W. BIROSH, Brownsville, Pa. Filed Oct. 25, 1920. Serial No. 419,264. 2 Claims. (Cl. 244—21.)



1. In a safety device for aeroplanes a normally collapsed sustaining element adapted to be arranged at the top of the body of the plane, cables for coupling said element with the body of the plane, a normally locked retaining element for maintaining said sustaining element collapsed until released and including a longitudinal rod connected to the sustaining element and further including a series of vertically movable and counter-weighted rods depending from the longitudinal rod whereby the latter is moved upwardly by the vertical rods when the retaining element is released, and means for releasing one of the vertical rods to cause the release of the retaining element.

1,428,136. AUTOMOBILE SIGNAL. CLARENCE E. BLINN and GEORGE W. CHRISTIE, Vancouver, Wash. Filed Feb. 17, 1920, Serial No. 359,400. Renewed Apr. 18, 1922. Serial No. 555,225. 1 Claim. (Cl. 116—46.)



In a vehicle singal, a hollow arm adapted to be projected horizontally from a vehicle, a bracket extending upward and outward from the end of said arm, said bracket having a bearing in its outer extremity with a vertical axis, a target having indicia upon opposite faces thereof to indicate right and left turns respectively, a hollow stem depending from said target and journaled in said bearing, means for rotating said target comprising a gear on said hollow stem, and a rod extending through

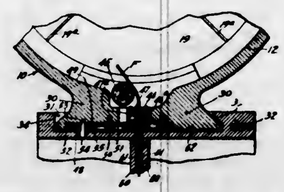
the hollow arm carrying a member intermeshing with said gear, a housing inclosing said gear and said means for rotating the target, said housing fitting against said bracket, said housing having a hole perpendicularly beneath the axis of the hollow stem, and conductor wires extending therethrough.

1,428,137. MULTIPLE-CUTTER DRILL BIT. JOHN J. BOOKHOUT and JAMES R. BOOKHOUT, Dallas, Tex. Filed Aug. 1, 1921. Serial No. 489,076. 7 Claims. (Cl. 255—61.)



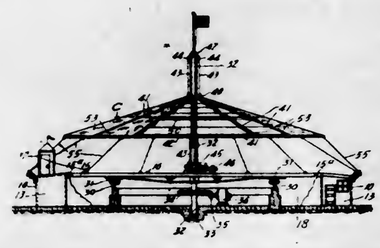
1. A well drilling bit comprising a plurality of blade sections, each including a vertical and radial blade having a cutter at its lower end and a shouldered head sector at its upper end, one of said sectors having a socket and an adjacent sector having a lug engaging in said socket, and means for fastening the sectors together.

1,428,138. MAGAZINE AND MAGAZINE ATTACHMENT FOR KINETOGRAPHS. LLOYD BROWN, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship, Lloyd Brown and Alexander Graydon, trustees. Filed Jan. 20, 1920. Serial No. 352,765. 11 Claims. (Cl. 88—17.)



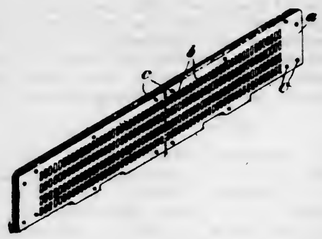
1. The combination of a kinetograph case having a magazine seat with a film passage therethrough, a film magazine having a film passage to register with the passage in said seat, a sliding member housed between said magazine and case and forming a movable wall for said magazine film passage, means automatically to slide said member when said case and magazine are assembled and the film passages brought into registry, and means for fastening said magazine and case in assembled position.

1,428,139. PICTURE STUDIO. LLOYD BROWN, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship, Lloyd Brown and Alexander Graydon, trustees. Filed Jan. 20, 1920. Serial No. 352,766. 19 Claims. (Cl. 20—1.)



1. In a picture studio construction, the combination of an elevated rotatable stage, a stationary roofed and chambered structure surrounding said rotatable stage with its roof surface forming a stationary floor substantially level therewith, and an inclined approach leading to said stationary floor and stage.

1,428,140. TABULATOR BAR OF TYPEWRITER TABULATORS. THEODOR EUGEN BÜSCHMANN, Chemnitz-Kappel, Germany, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke Aktiengesellschaft, Schonau b. Chemnitz, Germany. Filed Mar. 23, 1921. Serial No. 454,943. 1 Claim. (Cl. 197—177.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

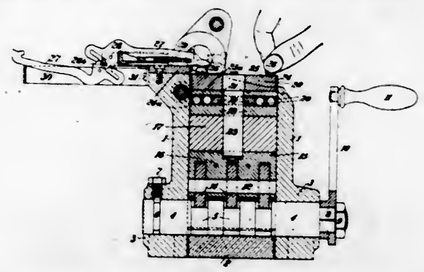


An improved tabulator bar for the tabulator of a typewriter, characterized by the feature that the improved bar is composed of a number of metal strips placed over or against one another and fastened rigidly together by means of screws or rivets, said strips being formed with accurately superposed slots for the engagement of the tabulator stops.

1,428,141. METHOD AND APPARATUS FOR FIXING SLOT-BACK TYPES UPON THE TYPE LEVERS OF TYPEWRITERS. THEODOR EUGEN BÜSCHMANN, Chemnitz-Kappel, Germany, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke Aktiengesellschaft, Schonau b. Chemnitz, Germany. Filed Mar. 23, 1921. Serial No. 454,944. 3 Claims. (Cl. 29—84.)

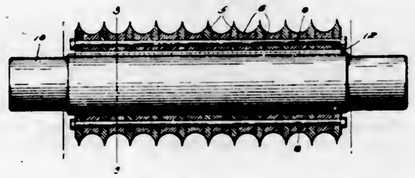
1. For fixing slot-back types upon the type levers of typewriters, the combination of a supporting matrix having recesses engraved to correspond to the type characters, means for moving the said matrix under a type lever so as to bring the respective type opposite the said type lever,

means for setting the type lever with its centre of oscillation at the proper distance from the type, means for holding the type lever firmly in position and means for



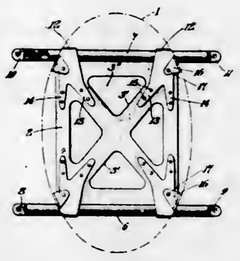
causing relative movement of the type and type lever for forcing the type on to the type lever until the correct height has been attained, as set forth.

1,428,142. ROLL FOR ROLLING MILLS. FERDINAND MORA CANDA, New York, N. Y. Filed Dec. 17, 1920. Serial No. 431,465. 2 Claims. (Cl. 80—58.)



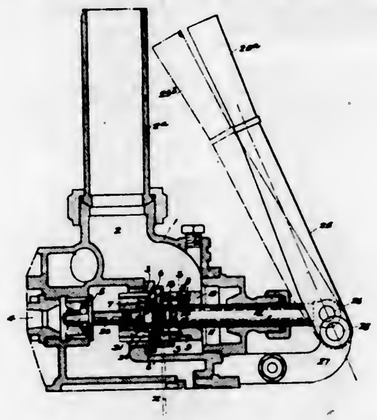
1. A grooved rolling mill roll, comprising a plurality of disks detachably secured together, certain of said disks being formed of a hard grade of steel and having a centrally disposed peripheral rib forming by converging surfaces, the inner edges of which merge into the curved faces of adjacent disks of tougher metal.

1,428,143. FUSELAGE CONSTRUCTION FOR AEROPLANES. JOSEPH L. CATO, Elmhurst, N. Y., assignor to L-W-F Engineering Company Inc., College Point, Long Island, N. Y., a Corporation of Michigan. Filed Nov. 7, 1919. Serial No. 336,288. 12 Claims. (Cl. 244—31.)



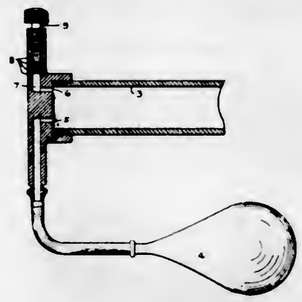
1. In combination, a fuselage, a transverse strengthening plate therein, means for attaching the pate to the fuselage without the necessity of having the shape of the plate conform to the shape of the fuselage comprising a transverse bracing bar and means for securing the plate to the bar.

1,428,144. FORCER STEAM VALVE. ELMER O. COREY, Norwood, Ohio. Filed May 19, 1920. Serial No. 382,501. 5 Claims. (Cl. 251—159.)



1. A valve having a cylindrical hub extending from one side thereof, a valve stem provided with an annularly groved end engaged into the hub of said valve, a divided collar having a plurality of internal annular ribs adapted to be alternately engaged into the groove of said stem for extensibly connecting the stem to the valve, and a nut engaged about the valve stem and threaded into said valve hub for confining the divided collar within the valve hub and thereby removably connecting the stem to the valve.

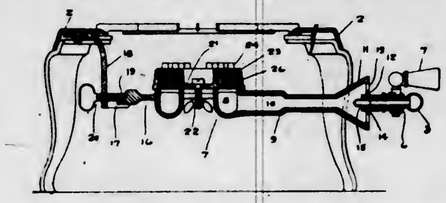
1,428,145. AIR-CHECK DEVICE. FREDERIC E. CHEESMAN, Brooklyn, N. Y. Filed Oct. 23, 1919. Serial No. 332,591. 1 Claim. (Cl. 251—34.)



In an air check device of the class described, an outlet for the air comprising an internally threaded tube provided with a series of holes in one side and a screw adapted to traverse said tube, said holes extending in the direction of the axis of said tube and increasing in diameter in the direction of the head of said screw.

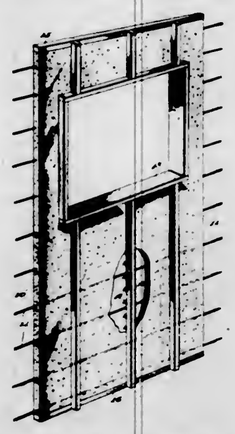
1,428,146. STOVE BURNER. CLAUD J. CLEFTON, Owatonna, Minn., assignor, by direct and mesne assignments, to The Clefton Company, Owatonna, Minn., a Corporation of Minnesota. Filed May 31, 1921. Serial No. 473,711. 5 Claims. (Cl. 158—99.)

2. A gas burner comprising a base having a mixing chamber, a cap seated on said base and provided with an annular portion having a series of perforations in its upper wall and a gas spreading device mounted within said annular portion above said base and comprising a flat metallic band rolled to form a series of convolutions, one within the other, said band having projections or



teats pressed therefrom for separating the convolutions one from the other and providing narrow annular passages between them through which the gas is compelled to pass to reach said perforations.

1,428,147. UNIT SLAB FOR BUILDING WALLS. BENJAMIN FRANKLIN DAVIS, Miami, Fla. Filed Apr. 28, 1920. Serial No. 377,226. 1 Claim. (Cl. 72—40.)



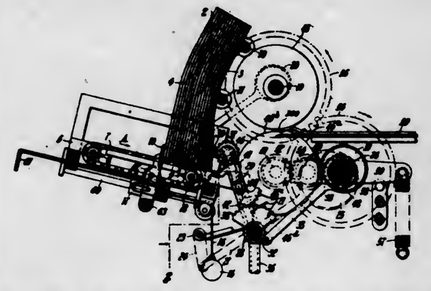
A unit slab for building walls, formed of concrete and having furring strips embedded from top to bottom therein and extending inwardly beyond the inner face thereof, and reinforcements including bars embedded therein at right angles to the furring strips and projecting at their outer ends beyond the side edges of the slab.

1,428,148. LUBRICATING EMULSION. JUDSON A. DE CEW, Mount Vernon, N. Y. Filed Apr. 18, 1919. Serial No. 291,030. Renewed Jan. 26, 1922. Serial No. 532,037. 5 Claims. (Cl. 87—9.)

1. A lubricating dilute emulsion of a water insoluble solid and water insoluble liquid particles dispersed in an aqueous medium the solid particles, being enclosed by the liquid particles.

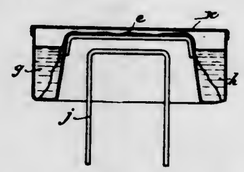
1,428,149. SHEET-FEEDING MECHANISM. FRANK DE MINICO, New York, N. Y., assignor to Pollard-Alling Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Aug. 30, 1921. Serial No. 496,940. 7 Claims. (Cl. 271—28.)

1. In sheet feeding mechanism the combination of a pair of rails for supporting a stack of sheets on edge, the delivery ends of said rails being inclined upwardly for sustaining each sheet as delivered, oscillating means for intermittently supporting the lower front portion of said stack, a pusher slidably mounted for engagement with



the lower portion of the rear of the stack, and means for urging said pusher to engage said stack, said pusher being pivotally mounted for folding to below said rails.

1,428,150. VAPORIZING DEVICE FOR HEATING APPARATUS. ERNEST DELÉAMONT, Marseille, France. Filed Sept. 11, 1920. Serial No. 409,620. 2 Claims. (Cl. 237—78.)



2. A humidifier, comprising a pair of liquid-containing troughs connected together in spaced, relation and adapted to straddle a source of heat so as to be disposed at opposite sides thereof, the inner side walls of the troughs and the connections between said troughs conjointly defining a heating chamber which is open at top and bottom; imperforate liquid-absorbing material extending across the top of said chamber to form a roof for confining and retaining the heat in the chamber and having the opposite side portions thereof immersed in the liquid in said troughs; and a cover embodying imperforate side portions immediately overlying said troughs and a perforated central portion immediately overlying said roof.

1,428,151. COSTUME, GARMENT, OR LIKE WEARING APPAREL FOR BATHING, SWIMMING, OR LIFE SAVING. JAMES STANLEY DREW, Perth, Western Australia, Australia. Filed Sept. 20, 1919. Serial No. 325,144. 2 Claims. (Cl. 9—20.)



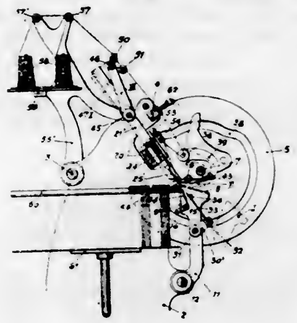
1. A garment of the character described, having an inflatable buoyant system comprising a single continuous

endless tubular air chamber depending from the shoulders to the waist line and passing round the garment in a serpentine manner with no two parts thereof overlapping such tubular air chamber being positively attached to the garment.

1,428,152. STOVING PAINT FOR VEHICLES. HENRY JOHN DYKMAN, Johannesburg, Transvaal, South Africa. Filed Dec. 1, 1919. Serial No. 341,630. 4 Claims. (Cl. 134—51.)

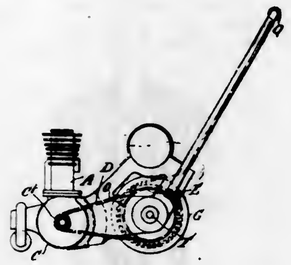
4. As a new article of manufacture a stoving paint including as ingredients, varnish, gold size, linseed oil, kerosene, and hydraulic cement.

1,428,153. BOOK-SEWING MACHINE. LOUIS EGGER, Sumiswald, Switzerland. Filed Dec. 21, 1921. Serial No. 523,988. 2 Claims. (Cl. 112—21.)



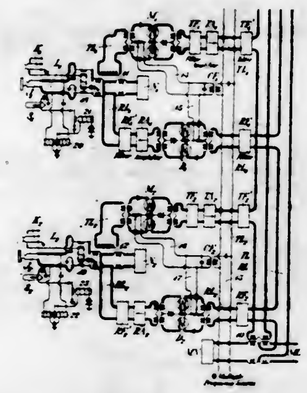
1. In a book sewing machine of the character set forth, an oscillating stripper-off 39 including a rock shaft 38 and means for operating said stripper-off, comprising a cam disc 6 presenting a cam groove 42, and a link 40, one end of which is fulcrumed on said stripper-off and whose other roller end 41 engages in said cam groove 42, and said rock shaft 38 serving also as thread guide in combination with a stationary thread brake 62 and a reciprocable thread tensioning spring 54.

1,428,154. MOTOR MOWER. JAMES EDGAR ELDRIDGE, WILLIAM BOWER BURGESS, CHARLES EDWARD BURGESS, and CLAUD NEVILLE ASHBEE, Brentwood, England. Filed Mar. 20, 1922. Serial No. 545,306. 5 Claims. (Cl. 56—26.)



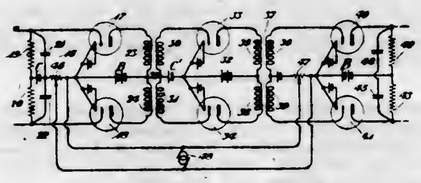
1. In a mower, the combination of a cutting cylinder having a shaft, a motor whose shaft is coaxial with that of the cutting cylinder and constitutes an extension thereof, and means for driving the cutting cylinder shaft from the motor shaft.

1,428,155. MEANS FOR SIGNALING OVER MULTIPLEX TRANSMISSION CHANNELS. LLOYD ESPENSCHIED, Hollis, and HERMAN A. AFFEL, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed July 29, 1919. Serial No. 313,993. 12 Claims. (Cl. 179—15.)



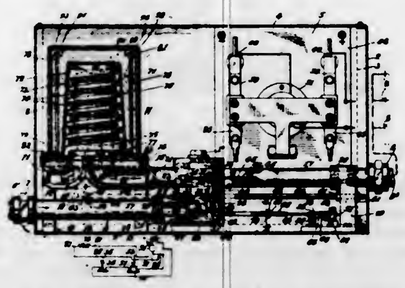
1. In a signaling system, a circuit for the transmission of high frequency carrier currents, a circuit for the transmission of low frequency currents such as telephone currents, a two-way connection between said circuits comprising two paths, one for transmission in one direction and the other for transmission in the opposite direction, a modulating repeater in one of said paths, a demodulating repeater in the other path, means to supply carrier current for said modulating and demodulating repeaters, means whereby telephone currents may be transmitted from said second mentioned circuit over one of said paths to said modulating repeater, means whereby ringing current may be transmitted over said path to said modulating repeater, said modulating repeater functioning to supply to said first mentioned circuit carrier currents modulated in accordance with said telephone or ringing currents, and means to transmit carrier currents modulated in accordance with telephone or ringing currents from said first mentioned circuit to said demodulating repeater, said repeater functioning in response thereto to supply to said second mentioned circuit the telephone or ringing currents in accordance with which said carrier currents were modulated.

1,428,156. LOW-FREQUENCY AMPLIFIER. LLOYD ESPENSCHIED, Hollis, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,526. 3 Claims. (Cl. 178—63.)



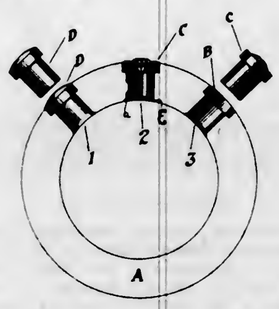
1. An amplifying circuit for signalling currents comprising a modulating device connected to the incoming circuit, an amplifier having its input circuit operatively related to the output circuit of said modulating device, a demodulating device having its input circuit operatively related to the output circuit of said amplifier, and its output circuit connected to the outgoing line, and a source of alternating current of a frequency suitable for amplification in said amplifying device, connected to the input circuit of the modulating device, and to the output circuit of the demodulating device.

1,428,157. ELECTRIC WATER HEATER. ALEXANDER FISHER, New York, N. Y., assignor to Fisher Patents Co. Inc., a Corporation of New York. Filed Mar. 22, 1922. Serial No. 545,713. 12 Claims. (Cl. 219—39.)



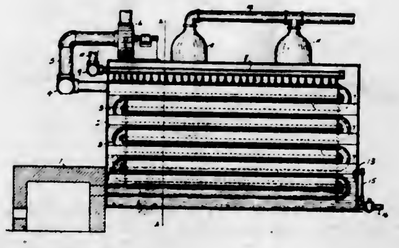
1. A water heating unit comprising a hydraulically operated member directly subjected to the pressure of the water in a main pipe, an electric heat-producing member in the path of water flow, an electric switch member for controlling the circuit to said heat-producing member, and a mechanical connection between said hydraulically operated member and said switch to cause the latter to be closed automatically upon displacement of the former, a single casing enclosing all of said elements, hydraulic connecting elements through said casing for establishing connection between the water mains and the heater unit, and electric connections extending through the casing for establishing circuit between the electric mains and the heater, whereby said unit may be installed at any point between the mains and the outlets to heat water for delivery at any of said outlets, the opening of any outlet effecting the flow of water for actuating the motive element to close the switch.

1,428,158. ARTICLE OF JEWELRY. WALTER J. FUERMANN, Bradford, Pa. Filed Mar. 24, 1921. Serial No. 455,353. 4 Claims. (Cl. 63—151.)



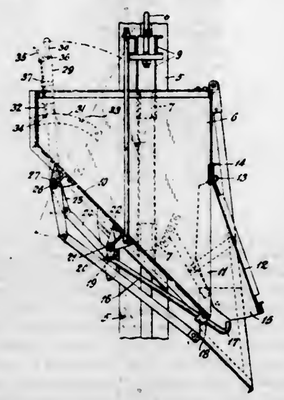
1. A finger-ring, comprising an annulus of metal provided along its periphery with a series of spaced apertures extending completely therethrough said apertures being each provided with a shoulder portion, a plurality of plugs having closed ends snugly fitted in certain of said apertures and a jewel setting, having an open lower end and a precious stone mounted at its upper end, snugly fitted and securely held in another of said apertures.

1,428,159. OIL-TOPPING PLANT. BENJAMIN GALLSWORTHY, Port Arthur, Tex. Filed July 14, 1919. Serial No. 310,533. 1 Claim. (Cl. 196—8.)



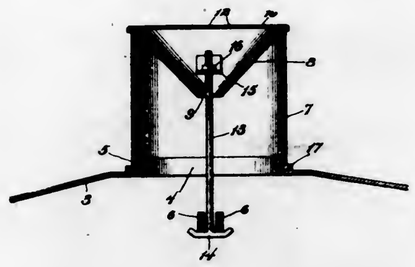
A device of the character described, including a receptacle, a furnace arranged adjacent thereto, an outlet manifold, flue pipes connected at one end directly into said furnace and arranged in vertical coils, in said receptacle and their other ends terminating in said manifold, oil inlet pipes arranged above the respective coils and whose undersides are provided with perforations through which crude oil may be discharged onto the respective coils, downwardly converging baffles arranged on opposite sides of each of the respective turns of the coils and having their lower edges spaced apart throughout their length, and provided to direct the oil passing over each turn down onto the turn underneath, and an outlet leading from the receptacle above the lower coils.

1,428,160. HOISTING APPARATUS. HOWARD S. GARDNER, East Orange, N. J. Original application filed Mar. 23, 1918, Serial No. 224,177, now Patent No. 1,365,979, dated Jan. 18, 1921. Divided and this application filed Dec. 22, 1920. Serial No. 432,446. 4 Claims. (Cl. 214—119.)



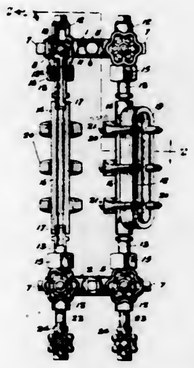
1. In a hoisting apparatus, a bucket having an exit opening, a pivoted door for said opening, a hooked bolt slidably mounted on said bucket and arranged to project over an edge of said door for locking the latter in its closed position and means for actuating said bolt to and from an operative position.

1,428,161. RADIATOR CAP. JOHN H. GOSNELL, Whitewright, Tex. Filed Apr. 30, 1921. Serial No. 465,781. 2 Claims. (Cl. 220—86.)



1. The combination with a radiator casing having an opening therein and spaced bars within the radiator below said opening, of a hollow metallic body disposed upon said casing and closing said opening, a funnel member disposed within said body, a bracket carried by said member, a bolt adjustably carried by said bracket and extending downwardly therethrough, a T-head on the lower end of said bolt adapted to engage with the bars of said radiator, and a foraminous cover upon the upper end of said body.

1,428,162. WATER-LEVEL GAUGE. JOHN W. GRANTLAND, Cincinnati, Ohio. Filed Apr. 24, 1920. Serial No. 376,495. 1 Claim. (Cl. 73—34.)



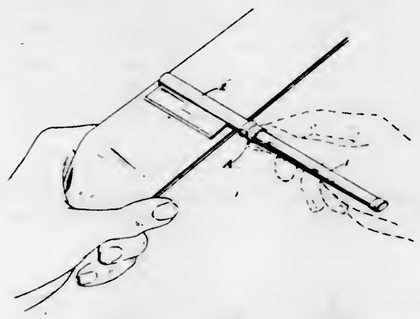
In a device of the class described, a pair of water level gauges arranged side by side, each gauge comprising a casing, providing a longitudinal sight chamber and sight opening, a glass plate providing a closure for the casing opening, means for clamping the glass plate to the casing, said casing having nipples at its opposite ends, a tubular extension connecting with the casing upper nipple, and a tubular extension connecting with the casing lower nipple, T-shaped manifolds for respectively connecting the opposite ends of said water gauges and supporting the gauges side by side, each manifold at its opposite ends and forward side provided with a hollow valve body portion in communication with the conduit of the manifold, and each valve body portion provided with oppositely disposed nipple extensions at opposite sides of the body portion and transverse to the manifolds, one thereof connecting with a respective tubular extension of one of said gauges, pipe union coupling means for securing a tubular extension to a respective manifold nipple extension, and the parts providing a pivot for swinging the gauge, and a valve for each valve body of said manifolds.

1,428,163. LAUNCHING AND LANDING OF AEROPLANES. JAMES B. HARRISS, Newark, N. J. Filed June 23, 1917. Serial No. 176,476. 26 Claims. (Cl. 244—2.)



1. In apparatus for launching aeroplanes or the like of the pontoon type from predetermined stations, a plane runway including a pair of substantially parallel track members; each member comprising a pair of track elements, and rotatable members carried by the pontoon structure and movable with the plane, each rotatable member co-operating with a pair of track elements throughout the length of the latter in the direction of plane launching movement to control the direction of plane movement while being launched.

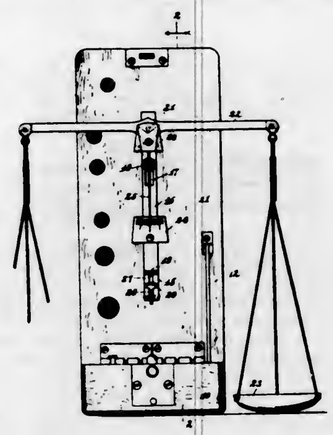
1,428,164. RAZOR-BLADE HOLDER AND STROPPING DEVICE. HARRY O. HASTINGS, San Francisco, Calif. Filed Dec. 9, 1920. Serial No. 429,430. 4 Claims. (Cl. 51—218.)



1. In a razor blade holder and stropping device, a pair of spring jaws for receiving and clamping the blade, and an abrasive carried by said jaws for deposit on the razor strop.

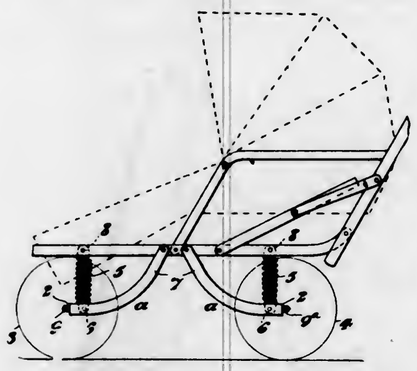
1,428,165. SCALES. CHARLES HAUSMANN, Jersey City, N. J., assignor to Herman Kohlbusch, Sr., Inc., Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 31, 1921. Serial No. 457,496. 6 Claims. (Cl. 265—54.)

1. A scales of the character described comprising a base plate, a bracket having an aperture extending therethrough, a fulcrum support rod having a slot therein and extending through the aperture in said bracket, a retaining member carried by said base plate and passing through the slot in said fulcrum support, holding the same in position and limiting the movement thereof, a raising lever pivotally carried by said bracket and adapted to engage



the protruding end of said fulcrum support and raise and lower the same; and a scales beam and pans carried by said fulcrum support.

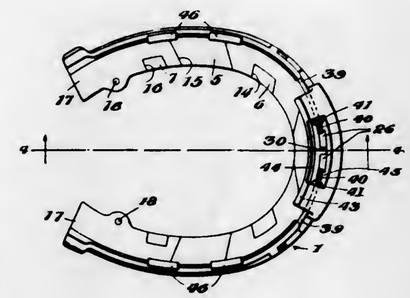
1,428,166. SPRING SUSPENSION MECHANISM FOR VEHICLES. FREDERICK HAGGER HEADLEY, Birmingham, England. Filed June 1, 1922. Serial No. 565,216. 1 Claim. (Cl. 267—5.)



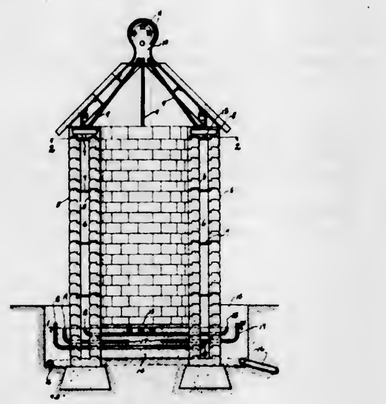
In a vehicle, a chassis, front and rear axles, U-members having transverse portions secured to the axles and having end portions which form radius arms arranged longitudinally of the vehicle, the radius arms of the front members extending rearwardly and being pivotally mounted on the chassis, and those of the rear member extending forwardly and being pivotally mounted on the chassis cross bars on the U-members, and springs between the said cross bars and the chassis.

1,428,167. HORSESHOE. MICHAEL HERGER, Tonopah, Nev. Filed Oct. 1, 1921. Serial No. 504,701. 14 Claims. (Cl. 168—19.)

1. A device of the class described, including a horseshoe, side hoof-clamping sections pivotally connected at one end to the horseshoe and slidably interlocked with the same, a coupling member connecting the other ends of the clamping sections, and fastening means securing the coupling member to the said sections for retaining the latter in position with relation to the horseshoe.



1,428,168. SILO. EMERY C. HODGES, Joliet, Ill. Filed Sept. 7, 1920. Serial No. 408,472. 11 Claims. (Cl. 72—6.)



2. A silo comprising double side walls; a porous filler surrounding the lower portion of said side walls; and means for connecting said filler with the space between said side walls for inducing a circulation of air therethrough, substantially as described.

1,428,169. ROOFING STRIP. FREDERICK LAIST and LABAN ELLSWORTH JONES, Anaconda, Mont., assignors to Anaconda Copper Mining Company, a Corporation of Montana. Filed Oct. 21, 1921. Serial No. 509,286. 2 Claims. (Cl. 108—17.)

1. A metallic roofing strip having at its upper end a portion extending downwardly in substantially parallel spaced relation to the body of the strip to provide a clearance, then outwardly substantially at right angle to the

body of the main body, then upwardly and inwardly to points lying in the plane of the strip slightly above the

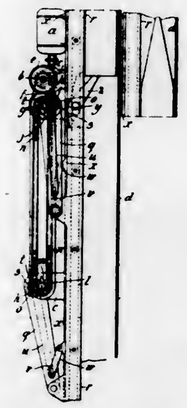


upper edge of the main body portion and then upwardly substantially in the plane of the main body portion.

1,428,170. PROCESS FOR COLORING METALLIC COPPER. FREDERICK LAIST, FREDERICK F. FRICK, ERNEST KLEPETKO, and LYNDALL P. DAVIDSON, Anaconda, Mont., assignors to Anaconda Copper Mining Company, Anaconda, Mont., a Corporation of Montana. Filed Nov. 29, 1921. Serial No. 518,647. 24 Claims. (Cl. 148—6.)

1. In a process of producing a colored coating on cupriferous bodies including copper, the step which consists in subjecting a body to the action of a substantially concentrated aqueous solution of a copper salt.

1,428,171. MEANS FOR ACTUATING AMMUNITION HOISTS. HUGH WARREN LEE and JOHN WINDLOW SWINDALE, Newcastle-upon-Tyne, England, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Filed Apr. 19, 1922. Serial No. 555,637. 5 Claims. (Cl. 89—46.)



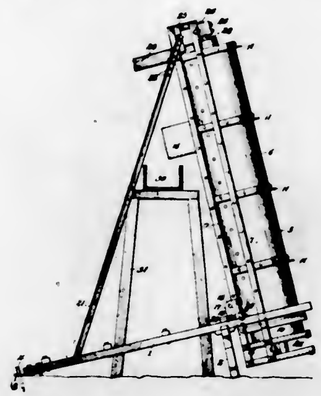
5. An ammunition hoist, a slider in the hoist, a lifting arm pivoted to the slider, sprocket wheels, two endless chains on the sprocket wheels, means for driving the sprocket wheels, a bar coupled to the chains, a rod connecting the bar to the slider, a second rod adapted to rock the lifting arm, a cam mounted on the bar, a third rod actuated by the cam and having one end sliding in a slot in the first rod and a link connecting this end to the second rod.

1,428,172. BINDING PLATE FOR OFFICE LETTER FILES AND THE LIKE. FREDERICK LE ROY-TRACY, Sydney, New South Wales, Australia. Filed Mar. 26, 1919. Serial No. 285,395. 1 Claim. (Cl. 24—153.)



A binding device comprising a backing having a pair of flexible prongs extending therefrom and adapted to pass through the papers to be bound, a plate having a pair of apertures provided with parallel side walls, the side walls of one aperture being arranged in alignment with the side walls of the other aperture and said prongs extending through said apertures, a tongue arranged between one of said apertures and one end of the plate and including a vertical wall in alignment with one of the walls of the last mentioned aperture and a horizontal portion extending toward one edge of the plate, and a second tongue arranged between the first mentioned tongue and one end of said plate and having a vertical wall in alignment with the opposite wall of the last mentioned aperture, said second tongue also having a horizontal portion extending in a direction opposite to the horizontal portion of the first mentioned tongue, one of said prongs extending between the horizontal portions of said tongues and said plate and being engaged on opposite sides at spaced points by the vertical portions of said tongues.

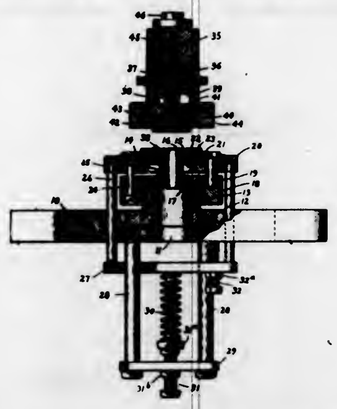
1,428,173. ROTARY PUMP. GEORGE LOBB, Selma, Calif. Filed Oct. 9, 1920. Serial No. 415,787. 4 Claims. (Cl. 103—89.)



1. A pump for irrigation and other purposes, comprising a pump barrel of noncircular cross section, with an intake end of cylindrical form, rotatable water impelling means in the cylindrical end, and closures disposed along the non-circular portion of the pump barrel for providing outlets for the pumped water at different levels.

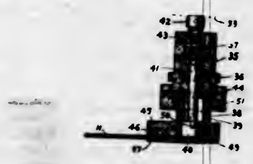
1,428,174. DIE STRUCTURE. JOHN A. LUTHER, Schenectady, N. Y. Filed Apr. 22, 1920. Serial No. 375,833. 11 Claims. (Cl. 164—32.)

1. A die member comprising a holder, and a plurality of separate concentric parts carried thereby, said parts being dimensioned and fitted together at their outer ends with a ground fit so they serve to support one another in



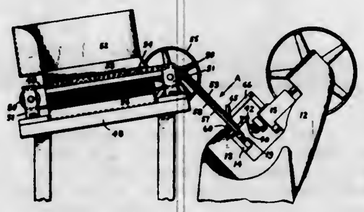
concentric relation at their outer ends whereby the inner ends need not be accurately dimensioned and fitted.

1,428,175. PUNCH PRESS. JOHN A. LUTHER, Schenectady, N. Y. Filed May 1, 1920. Serial No. 378,313. 7 Claims. (Cl. 29—1.)



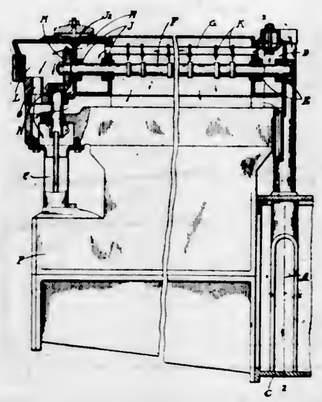
1. In combination, a stationary die structure adapted to receive a piece to be worked upon, said piece having upwardly facing edges, a movable die structure having a die member, and supporting means forming a part of said movable die structure for carrying a piece of material from which a part is to be cut by said die member and deposited between said upwardly facing edges.

1,428,176. PUNCH PRESS. JOHN A. LUTHER, Schenectady, N. Y. Filed May 1, 1920. Serial No. 378,314. 12 Claims. (Cl. 29—1.)



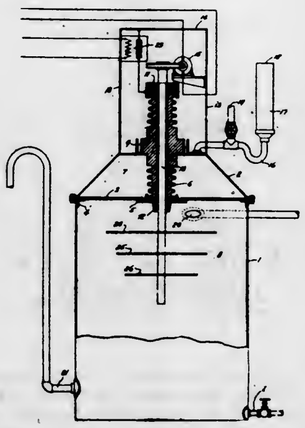
1. In combination, a stationary die structure, a movable die structure adapted to move into engagement with the stationary die structure to perform an operation on a device, yieldable catch fingers carried by the movable die structure for catching the device operated on and carrying it away with it, and means for automatically releasing the catch fingers.

1,428,177. LUBRICATION SYSTEM OF INTERNAL-COMBUSTION ENGINES. FREDERICK WILLIAM MEAD, Solihull, England. Filed May 13, 1922. Serial No. 560,630. 2 Claims. (Cl. 123—90.)



1. In an internal combustion engine, the combination of valves in the cylinder head, a camshaft, a bearing for one end of said camshaft, a chamber enclosing said bearing, means for supplying oil to said chamber, a second bearing at the other end of said camshaft, a second chamber enclosing said second bearing, an overflow pipe from said first chamber adapted to conduct oil to said second chamber, outlets in said pipe adapted to feed oil on to said cams, a split obstruction in each of said outlets, gearing for driving said camshaft, a chamber enclosing said gearing, an overflow pipe from said second chamber to second chamber enclosing said gearing, substantially as set forth.

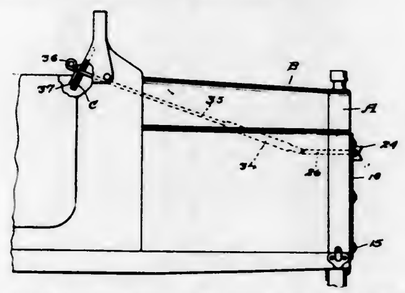
1,428,178. DEHYDRATOR. WYNN MEREDITH, Alameda, Calif., assignor to Petroleum Rectifying Company, San Francisco, Calif., a Corporation of California. Filed Oct. 28, 1920. Serial No. 420,244. 10 Claims. (Cl. 204—24.)



1. In dehydration apparatus for an emulsion a chamber and an electrode disposed therein and extending through a dielectric diaphragm, said diaphragm extending across said chamber and dividing it into a compartment

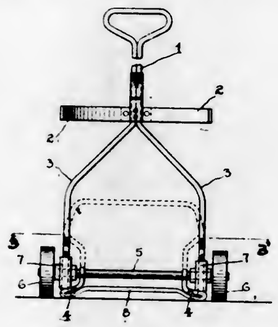
within which the electrode is adapted to discharge, and a second compartment adjacent to the said electrode whereby a body of relatively quiescent oil may be retained between proximate portions of the electrodes to effect further insulation thereof.

1,428,179. RADIATOR PROTECTOR. ARTHUR E. MOOD, Wichita, Kans. Filed Mar. 26, 1921. Serial No. 455,917. 2 Claims. (Cl. 257—132.)



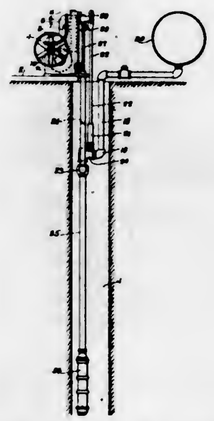
1. A radiator protector for automobiles comprising a plate member formed with series of openings, a disk member journaled upon the back of said plate and provided with openings adapted to register with said first named openings, said disk having its periphery formed as a segmental gear, a pinion journaled upon said plate and meshing with said gear, a support for the pinion passing through the plate and formed at the front thereof with an operating head, the rear end of the support being slotted and threaded, a rod having a cross member engaged within said slot and having the ends of the cross member laterally bent and extending into holes in the pinion, a nut threaded upon the support and engaging said cross member, and a telescopic operating member flexibly connected with said rod and extending through the dash of the automobile.

1,428,180. PORTAGE DEVICE. GEORGE MORE, Brooklyn, N. Y., assignor to More Handy Truck Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 3, 1922. Serial No. 540,778. 3 Claims. (Cl. 280—57.)



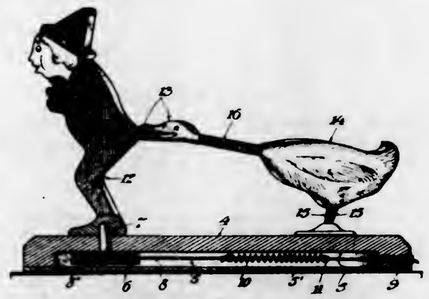
1. In a portage device having a frame, fittings carried thereby, a wheel axle engaging the fittings and provided with wheels, and means extended forwardly from the frame for supporting an ash can, barrel or the like, the combination of a foot-piece oscillably mounted on the axle, intermediate the fittings to swing forwardly into engagement with the supporting means for the purpose of supporting a trunk, box or the like, and to swing rearwardly against the frame when not in use.

1,428,181. PUMP. PHILIP A. MYERS, Ashland, Ohio, assignor to The F. E. Myers and Brother Company, Ashland, Ohio, a Corporation of Ohio. Filed June 15, 1921. Serial No. 477,815. 4 Claims. (Cl. 103—6.)



1. In a pumping apparatus, the combination with a power head including a casing in which the power mechanism is housed, of a mounting head detachably secured to a vertical face of said casing, a drop pipe secured to the mounting head and a lower cylinder, an upper cylinder all supported by such drop pipe and an air cylinder, a piston rod common to the lower and upper water cylinders and another piston rod for the air cylinder, and a connection between said piston rods and an operating extension of the power mechanism.

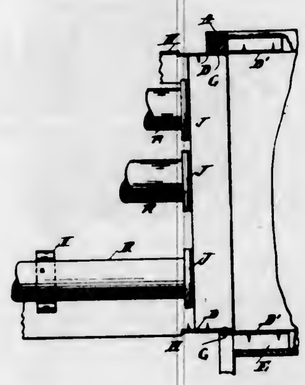
1,428,182. FIGURE TOY. PETER S. H. NEWELL, Leonia, N. J., assignor to The Diamond Products Corporation, Wilmington, Del., a Corporation of Delaware. Filed Oct. 14, 1920. Serial No. 416,839. 8 Claims. (Cl. 46—40.)



1. A toy comprising a base, a figure element, upstanding resilient means supporting said element above the base, and comprising tightly coiled springs which normally sustain said element in upright position and yet permit its universal movement, oscillatory actuating means supported by the base, and operative connection between the said actuating means and the figure element.

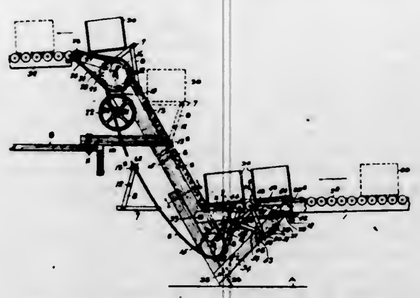
1,428,183. CABINET FOR MUSIC ROLLS. FRANK PERME, Sr., Cleveland, Ohio. Filed Feb. 4, 1921. Serial No. 442,391. 1 Claim. (Cl. 211—16.)

In a cabinet for music rolls, in combination, a casing, vertical panels transversely slidable therein, the upper and lower walls of said cabinet provided with transverse grooves, blocks slidable in said grooves, hinge leaves connecting said blocks respectively to said panels, said panels comprising each a thin central portion and thicker stiles, so that music rolls provided with flanges may engage said stiles and be retained from longitudinal move-



ment thereby, said panels constructed and arranged to swing free of said grooves when drawn out of said case, but to enter said grooves when pushed into the case, and means for detachably securing said rolls to the vertical faces of said panels, said securing means serving also to compress the rolls and maintain them in a closely wound condition.

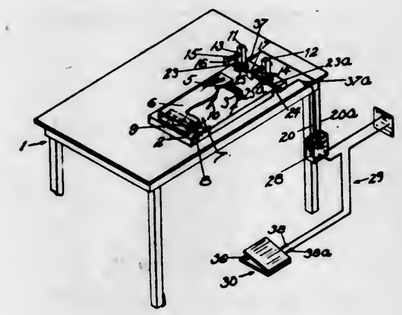
1,428,184. APPARATUS FOR HANDLING AND DELIVERING BOXES OR PACKAGES FROM ONE ELEVATION TO ANOTHER. WILLIAM G. PRICE, Yakima, Wash. Filed June 23, 1919. Serial No. 306,239. 11 Claims. (Cl. 198—154.)



1. A conveyer comprising an inclined endless carrier, article supports mounted to move with the said carrier and adapted to rise above the top of the said carrier while passing the upper end thereof, and braces connected to said support for maintaining the loads carried by said supports substantially level while passing above the upper end of the said carrier.

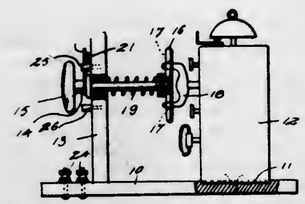
1,428,185. DEVICE FOR EMBEDDING WIRES IN FUSIBLE SHEETS. RICHARD B. REED, Jr., Orange, Calif. Filed May 18, 1921. Serial No. 470,548. 9 Claims. (Cl. 18—1.)

1. A device for embedding wires strung in a frame, in wax, comprising a base; rollers rotatably mounted thereon; a block having a recess in its lower side, and adapted to receive said rollers, the relation of said rollers in said recess being such as to afford limited movement of said block relative to the base; contacts adjacent one



end of the path of movement of the block adapted to contact with said wire so as to pass a current of electricity therethrough; said contacts being slidably mounted and spring pressed whereby the contacts adjust themselves to irregularities of said frame.

1,428,186. ELECTRIC SWITCH. JOSEPH M. RONALTER, Stafford Springs, Conn. Filed Oct. 7, 1920. Serial No. 415,282. 3 Claims. (Cl. 200—36.)

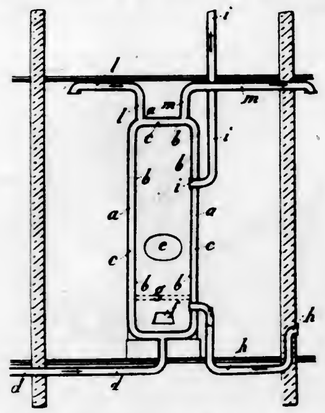


1. An electric switch apparatus including a switch device having a clutch, and an alarm clock, means to urge the clutch into engagement with the spindle of said alarm clock, and means to mount the clock against displacement under urgency of said first mentioned means.

1,428,187. HEATING PLANT FOR HOUSES AND BUILDINGS IN GENERAL. GIUSEPPE SCAPIN, Abano, Italy. Filed Mar. 12, 1921. Serial No. 451,738. 1 Claim. (Cl. 126—67.)

A hot air stove of double wall structure, the respective walls of the body of the stove being arranged in spaced relation to provide an air chamber extending throughout the top, bottom and sides thereof, a fire grate supported in the stove, a combustion chamber, an ash pit, a plurality of warm air conducting tubes communicating with the air space at the extreme top of the stove body and having downwardly directed discharge ends adapted for location in rooms to be heated for directing the incoming warm air downwardly therein, an air supply tube having its inlet end arranged externally of the building structure to receive fresh atmospheric air and having its discharge end connected with the air space centrally of the bottom

of the stove body to insure equal distribution of the rising annular column of air within the air chamber, an



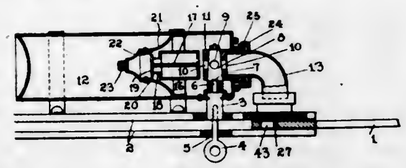
air conducting tube communicating with the interior of the stove body below the grate and a flue communicating with the fire chamber.

1,428,188. HOLDER FOR PENCILS AND ERASERS. JAMES EDWARD SMOOT, Concord, N. C. Filed Jan. 16, 1920. Serial No. 351,968. 1 Claim. (Cl. 120—19.)



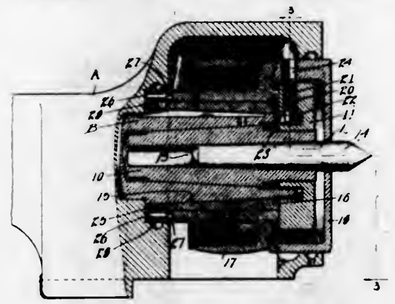
A device of the class described comprising a tubular sleeve having a single longitudinal slot extended the full length of the sleeve through both ends of the sleeve, the provision of a single slot serving to increase the strength of the sleeve and reducing the number of edges which might fray a garment pocket; and an ejector slidable on the sleeve, the ejector being fashioned from a single strip of material disposed in annular form, the strip being provided with an inwardly projecting finger movable in the slot and extending into the sleeve, the strip having free terminals which extend transversely of the sleeve into end contact at a point diametrically opposite to the slot, thereby to restrain the sleeve from spreading at the slot and to reduce the number of edges which might fray a garment pocket.

1,428,189. ALARM-WHISTLE MEANS FOR CLOSURE DEVICES. FRANK C. STINZING, Long Island City, N. Y. Filed Mar. 11, 1922. Serial No. 542,923. 3 Claims. (Cl. 116—85.)



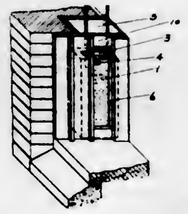
3. The combination, with a closure member, of a whistle, fluid pressure means for sounding the whistle, an oscillable valve having a stem extended in the path of the closure member, in opening, to actuate the valve for pressure release, and spring-return means subject to the influence of the sounding pressure to lock the valve in its pressure releasing position.

1,428,190. HEADSTOCK FOR LATHES. PAUL STONER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Nov. 18, 1920. Serial No. 424,903. 16 Claims. (Cl. 82—28.)



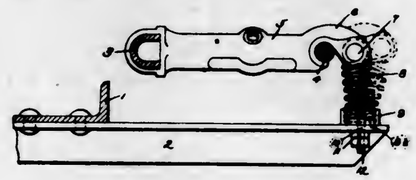
1. In combination a work-holding center, a spindle therefor, a stationary bearing having an inner bearing surface in contact with the spindle, a rotary device concentric with the spindle and means located forwardly of said bearing surface for connecting the spindle to either said stationary bearing or said rotary device, substantially as set forth.

1,428,191. WINDOW WEIGHT. CHARLES E. STRATING, Chicago, Ill. Filed July 24, 1920. Serial No. 398,739. 2 Claims. (Cl. 16—219.)



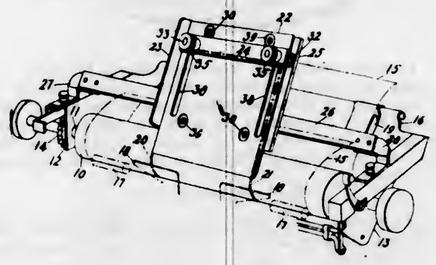
1. In combination with window sashes and a sash plate; a flexible cable connecting said sashes; a concrete weight provided with a removable pulley mounted on said cable; and an opening in said sash plate affording ready access to said weight for removal of said pulley to renew said cable, substantially as described.

1,428,192. COMBINED RELEASE AND SUPPORT FOR BRAKE BEAMS. GEORGE N. VAN SWERINGEN, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1921. Serial No. 491,533. 7 Claims. (Cl. 188—213.)



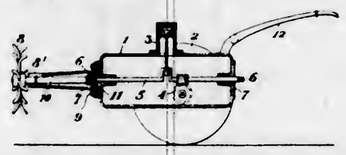
4. The combination of a brake beam, a safety bar member, and a combined support and release connected to said parts.

1,428,193. TYPEWRITING MACHINE. EDWARD THOMAS, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 15, 1919. Serial No. 317,635. 16 Claims. (Cl. 197—127.)



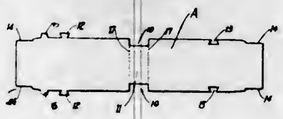
1. In a typewriting machine, the combination with a revoluble platen and a paper-table upon which a sheet is adapted to be adjusted, of a clip overhanging said table, and a spring device normally lifting said table against said clip, but adapted to permit the table to be depressed from the clip to enable the work-sheet to be adjusted beneath the clip and to be seized against the clip by the upspringing of the table.

1,428,194. SELF-PROPELLED AGRICULTURAL IMPLEMENT FOR CULTIVATING, MOWING, GRINDING, AND THE LIKE. KONRAD VON MEYENBURG, Basel, Switzerland. Filed Sept. 1, 1921. Serial No. 497,776. 2 Claims. (Cl. 180—53.)



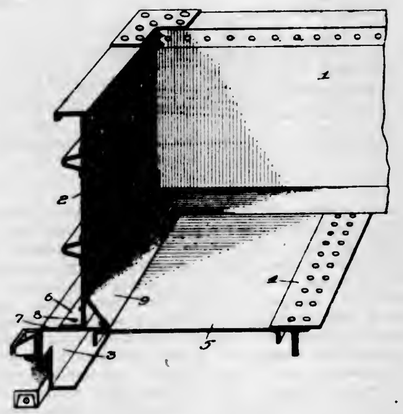
1. In a self propelled agricultural implement, a carriage comprising a hollow carriage body, a driving motor on said carriage, a tool support-casing, a tool thereon, a tool actuating gear within said tool support-casing, a motor driven gear within said hollow carriage body for driving the carriage and the tool from the motor, means to allow raising or lowering of the tool and coupling means for rigidly and detachably connecting said tool support-casing and the tool actuating gear therein, respectively, with the said carriage body and the motor driven gear therein, substantially as and for the purpose described.

1,428,195. METAL BOX. JOHN C. WAHL and PETER G. JACOBSON, Chicago, Ill., assignors to The Wahl Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 9, 1921. Serial No. 521,086. 3 Claims. (Cl. 113—116.)



1. The method of forming a sheet-metal box, comprising, stamping a blank with engagement members, receiving notches and binding lugs therein, then striking a substantial portion of the blank at either side at right-angles thereto, to form the sides of the blank, then bending the blank medially upon two parallel lines to form a bottom portion, and finally clamping the opposed sections together with the engageemnt members fitting into the receiving notches, and the binding lugs lying within the box.

1,428,196. CAR. ROBERT R. WEAVER, Chicago, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of West Virginia. Filed Feb. 27, 1922. Serial No. 539,438. 11 Claims. (Cl. 105—244.)

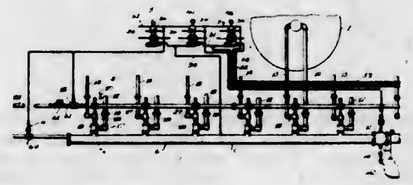


1. A car having an open bottom and a door cooperating therewith, the car being formed with a combined end-sill and door-stop.

1,428,197. PROCESS OF CLEANING SULPHONIC ACID. ALBERT WOLFF, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 20, 1916. Serial No. 92,523. 3 Claims. (Cl. 87—6.)

3. The process for removing inorganic salts from sulphonic acids obtained by the treatment of mineral oils with sulphuric acid, which comprises washing the salt-containing sulphonic acid with about 20%, based on the weight of sulphonic acids treated, of sulphuric acid of about 40% to 50% strength, at a temperature of about 140° F.

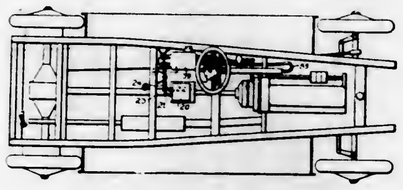
1,428,198. STEAM CIRCULATING AND REGENERATING SYSTEM. JOHN O. WOODSOME, Syracuse, N. Y., and JOHN H. SWAN, Chicago, Ill. Filed June 27, 1921. Serial No. 480,621. 4 Claims. (Cl. 34—48.)



1. In a paper making machine, the combination of a series of drying rolls, of means for supplying steam to said rolls, and differential pressure regulators for regulating the pressures of the steam in the different drying

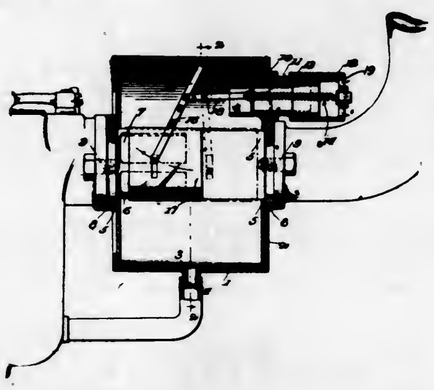
rolls, whereby predetermined pressure relations between the different rolls may be maintained, and a uniform rise or fall in pressure throughout the entire system is made possible.

1,428,199. AUTOMATIC CONTROL MECHANISM. GARRETT W. WOODWARD, Chicago, Ill., assignor to Woodward Automatic Control Corporation, Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1921. Serial No. 442,424. 17 Claims. (Cl. 74—58.)



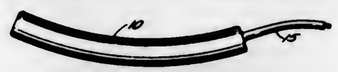
1. In a motor driven vehicle, a motor, a transmission having shiftable gears for providing a plurality of gear ratios, a clutch adapted to operatively connect said motor to said transmission, a member adapted to be operably connected to said motor, a series of plungers, each selectively movable to move said transmission gears into a predetermined gear ratio, a selector and means associated therewith operably connected to said member to selectively engage one of said plungers to move the transmission gears to one of said predetermined speeds and means operable by the motor for releasing said clutch before shifting said gears and for again engaging said clutch after said gears are shifted.

1,428,200. CARBURETOR. FRED D. ACKLEY, Kirkland, Wash. Filed Aug. 2, 1920. Serial No. 400,779. 2 Claims. (Cl. 123—117.)



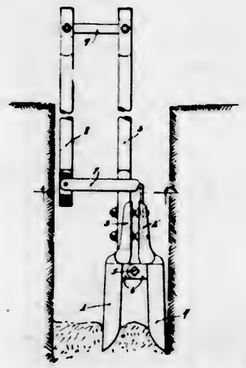
1. A carburetor attachment comprising a casing arranged beyond and on the suction side of the carburetor, said casing having a fuel passage therethrough formed with openings, a sleeve valve slidably mounted on said passage and operative to control said openings, means mounted in the casing and arranged at one side of said passage and adapted to be operated in one direction by the suction of the engine, and a lever connection between said means and sleeve to operate the sleeve in accordance with the movement of the means.

1,428,201. AIR AND STEAM BAG FOR VULCANIZERS. CHARLES G. ANDREWS, Denver, Colo. Filed Jan. 21, 1922. Serial No. 530,974. 5 Claims. (Cl. 18—45.)



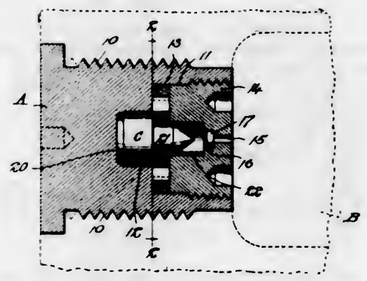
1. An air and steam bag comprising a pressure container of rubber or other elastic material having a single layer of cords imbedded in the walls thereof, said cords being disposed at an angle to the axis and diameter of the container for the purpose set forth, and an expansible casing adapted to contain said pressure container.

1,428,202. POSTHOLE DIGGER. MAXIMILLION M. ARNDT, Manitowoc, Wis. Filed Oct. 11, 1920. Serial No. 416,233. 1 Claim. (Cl. 55—11.)



A hole digger comprising a master handle having a scooping jaw extending from its lower end, a biting jaw pivotally associated with the scooping jaw, a transversely disposed short arm extending from the biting jaw and spaced above said pivotal point the same constituting a bell-crank lever associated with the biting jaw, and an actuating rod connected to the end of the arm and extending approximately parallel with the master handle.

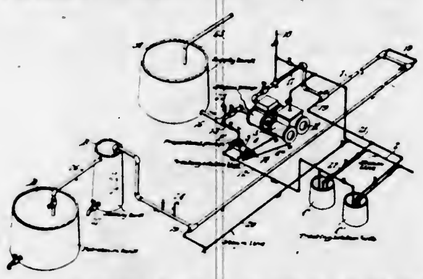
1,428,203. FUSE. DORSEY FROST ASBURY, Washington, D. C. Filed Sept. 13, 1920. Serial No. 409,821. 13 Claims. (Cl. 102—39.)



1. The combination with a projectile, of a fuse including elements normally held magnetically in one relation

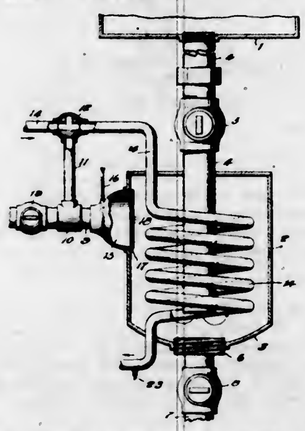
to establish the unarmed status of the fuse and in another relation by centrifugal force incident to rotation of the projectile in flight to establish the armed status of the fuse.

1,428,204. APPARATUS FOR TREATING NATURAL EMULSIONS OF PETROLEUM. WILLIAM S. BARNICKEL, St. Louis, Mo. Filed Aug. 5, 1918. Serial No. 248,422. 1 Claim. (Cl. 196—1.)



An apparatus for treating oil mixtures of the character described, comprising a supply tank, a settling tank, a conduit leading from said supply tank, to said settling tank, a steam pump for drawing an oil mixture out of said supply tank and forcing it through said conduit, a treating solution tank, a proportional pump operated by said steam pump for drawing the treating solution from said tank and introducing it into the oil mixture before said mixture passes through the steam pump, means for agitating the treated mixture while it is flowing through said condnit, a steam pipe in said conduit for heating the treated mixture, and means for conducting the water of condensation from said steam pipe to a treating solution tank.

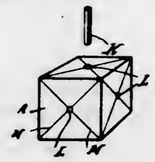
1,428,205. OIL TRAP AND HEATING DEVICE. PHILIP D. BARAY, Miami, Ariz. Filed Oct. 15, 1919. Serial No. 330,875. 9 Claims. (Cl. 210—167.)



2. In a fuel preheating device having a fuel trap, a heating coil in said trap, a fuel drain, a fuel inlet, and a fuel outlet, a by-pass connecting the fuel outlet with the heating coil.

1,428,206. EDUCATIONAL DEVICE. JOHN W. BENTON, Harlowe, New South Wales, Australia. Filed Nov. 10, 1919. Serial No. 336,959. 9 Claims. (Cl. 35—2.)

4. A set of blocks for mathematical purposes, comprising a plurality of six-faced rectangular blocks all of which are equal as to the shape and size of opposite end faces thereof, one of said blocks being of unit length, and the

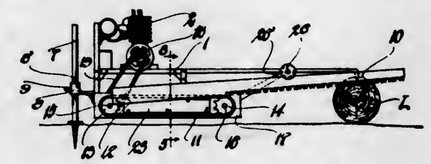


lengths of the remaining blocks increasing in arithmetical progression by said unit length.

1,428,207. FIRE-EXTINGUISHING COMPOSITION. ARTHUR BIDDLE, Trenton, N. J., assignor to United Products Corporation of America, a Corporation of Delaware. Filed July 7, 1920. Serial No. 394,453. 8 Claims. (Cl. 23—5.)

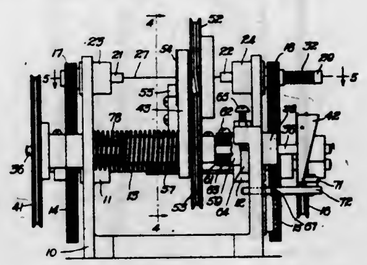
8. A fire extinguishing compound consisting of two solutions which when mixed produce a viscous foam non-supporting to combustion, one of said solutions comprising a "sulphite glutrin" having an acid reaction, and the other of said solutions being an alkaline solution, one of said solutions also containing a chemical for producing a non-combustible gas, and one of said solutions also containing a substance for increasing the viscosity thereof.

1,428,208. PORTABLE RECIPROCATING SAW MACHINE. ALEXANDER BILLS, Homestead, Oreg. Filed Feb. 19, 1920. Serial No. 359,867. 2 Claims. (Cl. 143—68.)



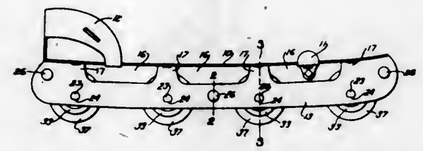
1. The combination with the supporting structure of a positively driven endless chain, sprockets for said chain and shafts for said sprockets, a reciprocable saw pivoted at one end to said chain, a saw guide arm on one of said shafts and a guide sheave engaging the back of the saw and journaled on the free end of said guide arm.

1,428,209. MECHANISM FOR LAPPING DIAMOND DIES. HARRY BLOUNT, Oak Park, Ill., assignor to Western Electric Company Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1920. Serial No. 371,713. 6 Claims. (Cl. 51—65.)



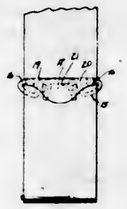
1. In a machine for lapping a wire drawing die, a rotatable die holder, a rotatable lapping member, and means for applying lateral pressure between the die and the lapping member.

1,428,210. ROLLER SKATE AND WHEEL THEREFOR. OTTO W. BOCHE, Bridgeport, Conn. Filed May 25, 1921. Serial No. 472,430. 4 Claims. (Cl. 46—51.)



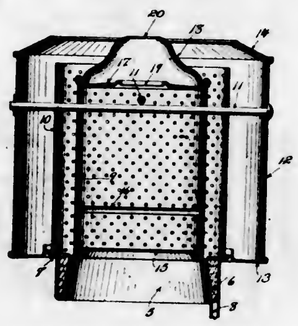
1. A roller skate comprising a foot plate, a pair of parallel, disconnected and spaced apart side plates extending downwardly at right-angles from adjacent the opposite edges of the foot plate for approximately the length of said skate, spaced apart means on each side plate detachably and separately connecting the same to said foot plate, said means in the instance of each side plate being arranged along the greater part of the length of said skate, means for insuring the positions of the side plates, axles fixed in and extending between said plates, and wheels on said axles.

1,428,211. BUCKLE. CHARLES E. BRADSHAW, Waterbury, Conn. Filed May 18, 1921. Serial No. 470,564. 2 Claims. (Cl. 24—191.)



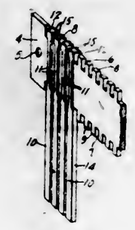
1. A buckle comprising a wire loop and a lever pivotally connected with the ends thereof, the loop flattened between its ends and formed with upwardly-extending bends forming flat bearing surfaces with which the lever coacts.

1,428,212. BURNER DRUM. JOHN S. BRENNAN, Milwaukee, Wis. Filed Dec. 3, 1919. Serial No. 342,166. 3 Claims. (Cl. 158—86.)



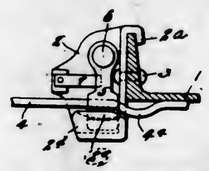
1. In a burner structure of the class described, in combination, a pair of upstanding concentric perforated tubes, a plate extending across the top of the inner tube, said plate being provided with a central aperture and a section of substantially frusto-conical shape having its base portion seated on the peripheral portion of the plate and having a central aperture slightly smaller than the aperture in the plate.

1,428,213. TYPEWRITING MACHINE. EDWARD A. BURNS, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 18, 1921. Serial No. 493,192. 5 Claims. (Cl. 197—98.)



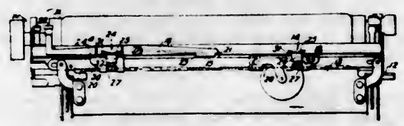
1. A guiding comb for key-levers, comprising a flat supporting bar provided with openings, and individual comb teeth having a lever-guiding blade portion provided with turned-over edges to form smooth guiding surfaces and having an attaching portion provided with attaching tongues passing through said openings and turned-over or clenched to secure the teeth upon the bar.

1,428,214. THIRD OR FOURTH POINT SUPPORT BRACKET FOR BRAKE RIGGING. EDWIN G. BUSSE and ARTHUR W. HAWKINS, Chicago, Ill., assignors to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 12, 1921. Serial No. 491,799. 5 Claims. (Cl. 188—213.)



3. The combination with a part of a car truck, of a third or fourth point support detachably associated therewith, said support having a bend, a bracket mount on the car truck providing a seat for said support, and movable means on said bracket cooperating with the bend of said support to hold it in its seat.

1,428,215. TYPEWRITING MACHINE. GEORGE W. CAMPBELL, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Original application filed June 15, 1918, Serial No. 240,146. Divided and this application filed Sept. 9, 1920. Serial No. 409,076. 2 Claims. (Cl. 197—63.)



1. In a typewriting machine, the combination with a traveling carriage, of an adjustable sheet-metal marginal stop for limiting the movement of said carriage, said stop having a recess, a toothed bar around which said stop is bent and along which said stop is adjusted, a dog or pawl co-acting with the teeth of said bar for locking said marginal stop against displacement, a C-shaped slide working in said recess on said marginal stop, a finger-piece on said slide for actuating said pawl, said pawl being struck up from said slide, and a spring for holding said slide in effective position.

1,428,216. SCARECROW. SAMUEL H. CHASE, Madison, Wis. Filed Aug. 17, 1921. Serial No. 492,879. 7 Claims. (Cl. 46—40.)

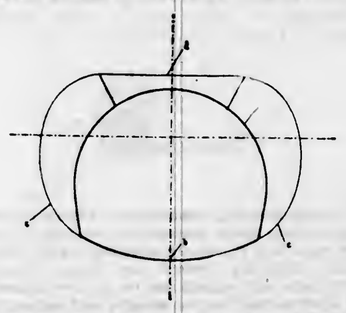


1. A scare-crow comprising a dummy-crow having a hinged wing and provided with means including a foot extension by which to swingingly and rotatably suspend it in place for use.

1,428,217. PROCESS FOR OBTAINING SUGARS FROM SUBSTANCES CONTAINING CELLULOSE. ALEXANDER CLASSEN, Aachen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed June 21, 1919. Serial No. 305,942. 8 Claims. (Cl. 127—10.)

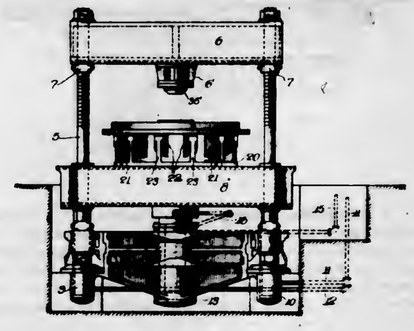
1. A process for converting cellulose-containing substances into sugar which consists in mixing about 1000 parts of cellulose-containing material with about 880 parts of water, about 10 parts hydrogen chloride, about 2 parts hydrogen sulphate, and 1 part sulphur dioxide, and then heating.

1,428,218. HULL CONSTRUCTION FOR SUBMARINE AND LIKE VESSELS. FERRUCCIO CORSUTTA, Trieste, Italy. Filed Jan. 10, 1921. Serial No. 436,348. 2 Claims. (Cl. 114—16.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



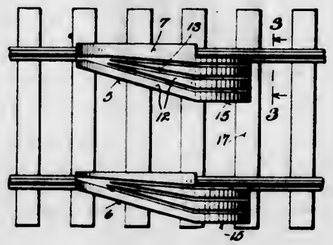
1. A hull construction for submarine and like vessels in which a transverse section of that part of the hull which resists the external pressure consist of two elastic arcs of different radii of curvature both concave towards the interior, and intersecting each other at two points substantially at the level of the bilge, the arc of greater radius forming the bottom and the arc of less radius the top and sides, of said section.

1,428,219. GEAR-MAKING MACHINE. JOHN F. CRAWFORD, Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation. Filed Mar. 14, 1921. Serial No. 452,309. 13 Claims. (Cl. 78—45.)



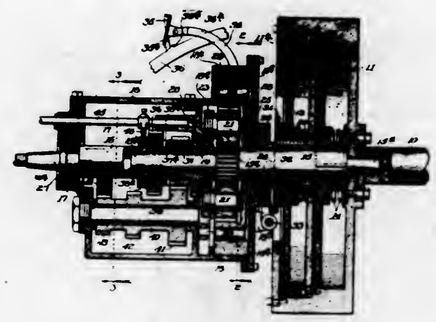
1. In a gear making machine, means upon which a gear blank is positioned, vertically swinging arms having toothed sections adapted to grip the periphery of said blanks, and means for contacting the opposite end of said blank, said elements when actuated pressing said blank into gear form.

1,428,220. RAIL FROG. GEORGE DELK, South Milwaukee, Wis., assignor of one-half to Emil F. Tschohl, South Milwaukee, Wis. Filed Mar. 7, 1922. Serial No. 541,661. 1 Claim. (Cl. 104—268.)



A railway frog comprising a series of laterally inclined track portions converging toward a single track portion adapted to be mounted upon a railway track, said single track portion having an inclined terminal portion and having an integral depending flange adapted to fit over the rail, said frog having a series of grooves formed between the successive track portions to guide the flange of the car wheel, whereby the flange of the car wheel is relieved of the supporting stresses and said stresses are borne by the tread portion of such wheels.

1,428,221. CLUTCH AND TRANSMISSION. JOSEPH DE MARTINO, Chicago, Ill., assignor to John H. Lee, trustee, Chicago, Ill. Filed Nov. 28, 1919. Serial No. 340,978. 3 Claims. (Cl. 74—58.)



1. A transmission comprising in combination, a driving member, an intermediate shaft and a propeller shaft in axial alignment, a sleeve upon said intermediate shaft, means to drive said intermediate shaft only or said intermediate shaft and sleeve in unison at will, sun and universe gears carried by said intermediate shaft and said sleeve respectively, a spider adapted to revolve upon the axis of said shafts, planet gears carried by said spider and meshing with said sun and universe gears, means to automatically lock said universe gear upon initial reverse movements, and means to drive said propeller shaft through said spider.

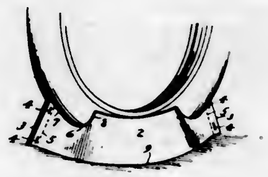
1,428,222. PUMP-CYLINDER HEAD. JOHN W. DREW, St. Louis, Mo., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 25, 1921. Serial No. 517,660. 5 Claims. (Cl. 230—27.)



1. A closure for pump cylinders comprising the combination of a cylinder and its piston, a flexible gasket arranged on said cylinder and having flaring walls for cooperating with the piston rod, a cap piece for holding said flexible gasket in position, and a floating washer arranged between the end of the cylinder and said flexible gasket, said washer being provided with a recess designed to accommodate the flaring flanges of the flexible member.

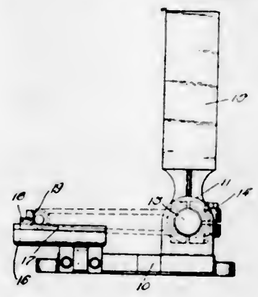
1,428,223. TIRE STAND. CLARENCE T. FAIRBANKS, Chicago, Ill. Filed Aug. 22, 1919. Serial No. 319,080. 7 Claims. (Cl. 211—24.)

2. In a supporting base for a ring-shaped article, the combination of a pair of elongated side members arranged side by side and joined together at their ends on upwardly converging lines, and adapted to be intermediately separated to afford a downwardly flared base, the lower edges of said members being extended downwardly



intermediate of their ends so as to lie in a common plane when the side members are expanded to support an article thereon.

1,428,224. ALIGNING JIG. WALTER A. FORBESS, Burlington, Wash., and CHESTER R. AMES, Sedro Woolley, Wash. Filed June 16, 1921. Serial No. 477,993. 2 Claims. (Cl. 33—180.)



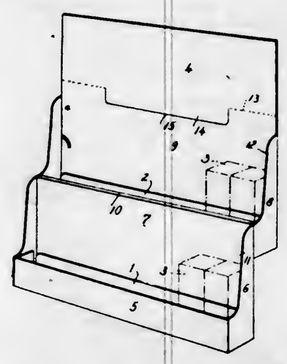
1. A piston rod testing device comprising a mandrel upon which a piston rod may be mounted, a pair of rigidly mounted spaced rails having coplanar surfaces substantially parallel to the axis of the mandrel and spaced therefrom whereby the surfaces of said rails are adapted to engage the wrist pin of a piston rod monuted on the mandrel, and a member slidable upon said rail and having a surface perpendicular to the plane of the surfaces of said rail, said member being likewise adapted to engage the wrist pin.

1,428,225. SHOCK ABSORBER. ROBERT S. FULTON, Philadelphia, Pa. Filed Apr. 12, 1921. Serial No. 460,694. 5 Claims. (Cl. 188—101.)



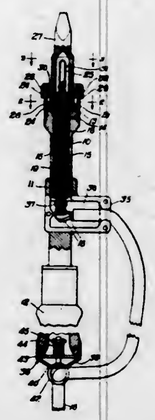
1. A shock absorber comprising a casing adapted to contain graphite under pressure, means for varying the pressure upon said graphite, a lever carried by the casing, a spindle projecting through the casing, a rotor so mounted upon said spindle as to revolve therewith, a second lever secured to the spindle, and means for attaching the outer ends of the levers to certain parts of a vehicle.

1,428,226. DISPLAY DEVICE. ALBERT J. GANZ, New York, N. Y., assignor to Elnson Litho, Incorporated, a Corporation of New York. Filed June 10, 1921. Serial No. 476,385. 4 Claims. (Cl. 206—44.)



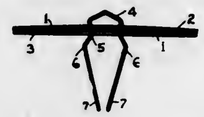
1. A display device comprising a pair of pockets one standing above and back of the other and hinged together so that one may be folded over the other to form a closed package for the contents, said device including a single sheet extending over the back, bottom and front wall of the upper pocket and the back of the lower pocket.

1,428,227. ELECTRIC SOLDERING IRON. JAMES T. GRIFFIN, Oak Park, WILLIAM A. TIMM, Berwyn, and ARTHUR E. SANTSCHI, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1920. Serial No. 417,403. 4 Claims. (Cl. 219—26.)



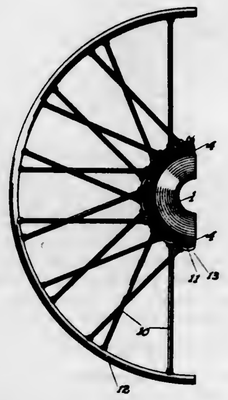
1. An electric soldering iron comprising a supporting stem, a recessed tip with means formed thereon for securing it to said stem, an electrical heating element projecting into said tip, supporting means for said heating element positioned at the open end of said tip and adapted to be secured with said heating element against longitudinal movement within the stem when said tip is secured to said stem, and clamping means for securing said tip to said stem.

1,428,228. KITCHEN-SINK WATER-STOP PLUG. FLORENCE CRANE GROVER, Hollywood, Calif. Filed Mar. 29, 1922. Serial No. 547,650. 1 Claim. (Cl. 4—35.)



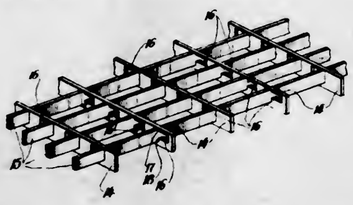
A plug stop comprising a metal disc and a second disc of cork secured together by means of a staple, the metal disc being flexed concavely, the shank of the staple being formed to act as a securing means to lock the plug stop in position over an outlet to be closed, whereby the second disc is wedged against the floor of the sink, the diameters of the discs being substantially equal to each other and greater than the diameter of the outlet to be closed.

1,428,229. VEHICLE WHEEL. JOSEPH J. HASKIN, Stockton, Calif. Filed June 9, 1920. Serial No. 387,548. 2 Claims. (Cl. 152—28.)



2. A resilient wheel comprising a rim, a hub, a plurality of flat spring members secured to and arranged about the hub lengthwise thereof and spaced therefrom at the ends, and a pair of spokes from each end of the spring member to the corresponding edges of the rim, said spokes spreading apart at an angle to each other and without crossing.

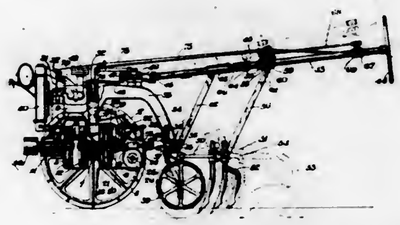
1,428,230. GRATING. WILLIAM H. HESS, Chicago, Ill. Filed Apr. 30, 1921. Serial No. 465,653. 9 Claims. (Cl. 189—82.)



1. A grating formed of a plurality of series of bars extending in intersecting relation, the bars of one series containing apertures and the bars of the other of said

series extending through said apertures, said last-referred-to bars containing notches along one edge, said apertures being of such size and shape as to permit of the insertion therein of said notched bars and the rotation of the latter therein at said notched portions and the movement of said apertured bars lengthwise relative to each other after rotation of said notched bars, said apertured bars presenting portions which extend adjacent the opposite faces of said notched bars in the positioning of the bars as stated and resist lateral movement of said notched bars, said portions of some of said apertured bars being located at one side of said notched bars and said portions of the others of said bars being located at the opposite side of said notched bars.

1,428,231. GARDEN TRACTOR. REX P. HICKS, Milwaukee, Wis. Filed Apr. 10, 1920. Serial No. 372,912. 19 Claims. (Cl. 180—19.)



1. In a garden tractor, the combination of propelling mechanism, a draft beam pivotally connected to said mechanism for horizontal swinging movement with respect thereto, castor wheels supporting the free end of the beam, means for connecting implements with the beam, a vertically movable rotatable steering shaft extending to a position behind the implement and controlled by the operator following behind the tractor, and means for turning the beam relative to the propelling mechanism on the rotation of said shaft.

1,428,232. SHOE GUARD. JACOB HOLMEN, Racine, Wis. Filed Apr. 5, 1920. Serial No. 371,379. 1 Claim. (Cl. 36—72.)



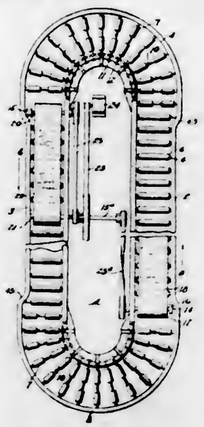
As a new article of manufacture, a protector stirrup for rubber footwear comprising a shank pad composed of tough pliable fibrous material for completely covering the instep, whereby slippage is resisted, the transverse edges of the pad being curved upwardly to form flanged elements for a reinforced seam, side straps having flared lower edges lapping the flanged element of the pad, on the inner sides thereof and extending in substantially vertical planes, a plurality of rivets securing the lower flared edges of the straps to the flanged elements of the pad, whereby a reinforced joint results conforming to the arch of a boot, and an ankle strap secured to the upper edges of the side straps on the inner sides thereof at a point substantially vertically above the front of the heel, said side straps being of gradually increasing width from said point of securement to said pad and exerting lifting tension on the front of said pad, the ankle strap and side strap being of thin pliable material, whereby the stirrup, as a whole, is compensated when fitted to a boot.

1,428,233. ELECTRIC SADIRON. JOHN A. HOWARD, Sr., West New Brighton, N. Y., assignor to Camward Engineering Co., Inc., a Corporation of New York. Filed June 4, 1920. Serial No. 386,437. 1 Claim. (Cl. 219—25.)



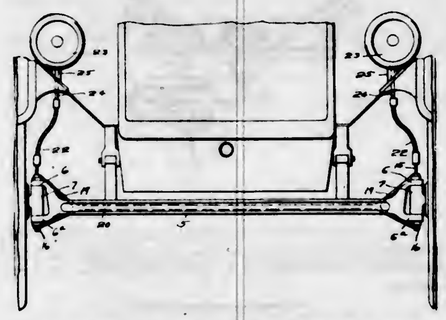
A sad iron comprising a shell, a plurality of rotary smoothing members journaled in the opposed sides of the shell and arranged to project a considerable distance below the lower edges of said sides, said shell being closed at the top to confine the heat, and completely open at the bottom for the purpose specified.

1,428,234. CONVEYER. FRANK J. HUEBSCH, San Francisco, Calif. Filed July 6, 1921. Serial No. 482,644. 10 Claims. (Cl. 198—181.)



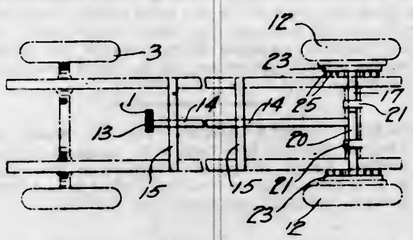
6. A conveyer comprising a pair of substantially parallel track sections, curved track sections connecting their opposite ends and forming a continuous trackway, a plurality of rollers disposed between the parallel track sections, a plurality of differential rollers disposed between the curved track sections, a pair of conveyer belts supported by the rollers disposed between the parallel track sections, means for imparting a continuous or intermittent movement to said conveyer belts, a plurality of containers supported by the conveyer belts and the respective rollers, and a flexible belt connecting the containers.

1,428,235. DIRIGIBLE, AUTOMATICALLY-OPERABLE HEADLIGHT FOR AUTOMOBILES. EDWARD S. JONES, Mobile, Ala., assignor of one-half to John M. Simpson, Mobile, Ala. Filed Dec. 16, 1921. Serial No. 522,876. 2 Claims. (Cl. 240—62.)



1. In combination with a steering knuckle of an automobile having an angular opening formed therethrough, of an axle having a forked end within which the said knuckle is received, a spindle bolt adapted to traverse the arms of said yoke and said knuckle, said spindle bolt having an angular portion engaging a correspondingly shaped opening in the knuckle and round portions engaged in the said arms of the yoke, crank arms upon the said bolt above and below the said yoke, a drag link having a forked end engaging with the said crank arms there being an angular portion upon the bolt above the uppermost of said crank arms, a sleeve having slidable engagement with said angular upper end of the bolt, a headlight mounted for turning movement and a connection between said sleeve and said headlight.

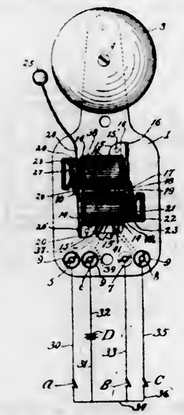
1,428,236. AUTOMOBILE LOCK. JONATHAN L. JONES, Akron, Ohio. Filed June 2, 1921. Serial No. 474,472. 2 Claims. (Cl. 188—81.)



1. An automobile lock, comprising a casing on the dash of the automobile; a rack bar vertically and slidingly mounted therethrough; a lock in the casing adapted to engage the rack bar; a crank and pinion engaging said rack bar; a turn bar journaled longitudinally on the chassis under the car body; a pinion at each end of the turn bar, the forward pinion being in mesh with the lower end of the said rack bar; lock bars having racks on their inner ends in mesh with the rear pinion of the turn bar, one at the upper side and one at the lower side of the pinion, and slidingly mounted and extended laterally adjacent the rear wheels of the automobile; and means located on the wheels for engaging the outwardly thrust ends of the lock bars.

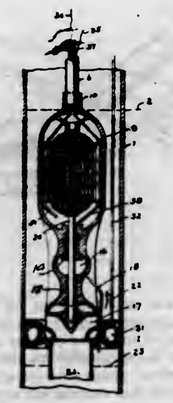
1,428,237. CALL BELL OR SIGNALING DEVICE. SAUL KATZ, Chicago, Ill. Filed May 24, 1919. Serial No. 299,558. 1 Claim. (Cl. 177—7.)

In a signaling device, the combination of a metallic base, a bell, a bell hammer, a bell hammer armature, a buzzer armature, a pair of separate electro-magnetic coils, a core encircled by one of said coils only and having an end of said core adjacent to the bell hammer armature, and acting to actuate said armature without actuating the buzzer armature when the said coil and core are energized, a second core encircled by the other one of said separate coils and having an end of said last mentioned core adjacent to the buzzer armature, and acting to actuate the same when said core is energized, three circuits each adapted to be connected with a source of electric supply, a circuit closer in each of said circuits, one of said circuits passing through one of said coils and acting to energize one of said cores only, namely the first mentioned core, for



actuating the bell hammer to produce a single stroke of the bell hammer, another of said circuits passing through said last mentioned coil and through an interrupter connected with the bell hammer armature, and acting to energize said core only, for producing a continuous series of successive strokes of the bell hammer armature without actuating the buzzer armature, and a third circuit passing through both of said coils and through an interrupter on the buzzer armature and acting to actuate the buzzer armature only, said buzzer armature and its interrupter being lighter and more easily operated than the bell hammer armature and its interrupter.

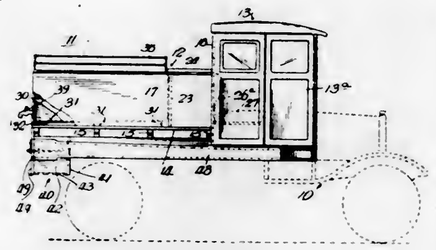
1,428,238. SUBMERSIBLE PUMP AND THE LIKE. JOHN B. KEATING, Piedmont, Calif. Filed Apr. 4, 1921. Serial No. 458,304. 7 Claims. (Cl. 103—87.)



4. In a vertical pumping unit, a motor and a gas tight casing inclosing said motor, a shaft driven by said motor

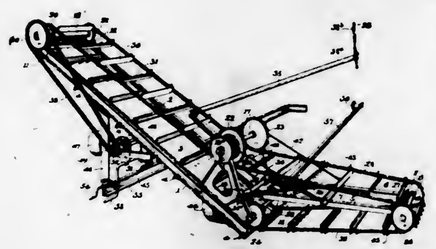
and passing through packing means in said casing and adapted to drive an impeller, a pipe passing through and terminating in the lower inside of said casing and an oil reservoir adapted to feed lubricant through said pipe, and means constructed and adapted to establish a gas pressure in said casing.

1,428,239. VEHICLE BODY. JAMES J. KELLY, Chicago, Ill., assignor to Thos. Cusack Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 8, 1921. Serial No. 490,547. 5 Claims. (Cl. 296—24.)



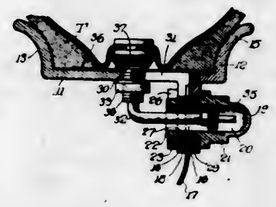
1. A vehicle body comprising a body box having upright, longitudinally extending walls, a cab at the front end of the body box having an upright rear wall, a crossboard in the body spaced from and parallel with the rear wall of the cab and dividing the body box into a front and rear compartment, a top wall for the front compartment, which compartment opens into the cab, and a tank removably mounted in the rear compartment.

1,428,240. LOADING APPARATUS. WALTER KEMMERER, Clinton, Wis. Filed Dec. 10, 1921. Serial No. 521,367. 14 Claims. (Cl. 198—11.)



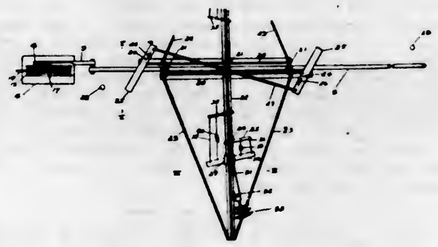
4. Loading apparatus comprising an inclined elevator member, a boom member, guides on each of said members, an endless articulated conveyor passing about said guides, said boom member being pivoted to the elevator member to swing in a vertical plane in such a manner that the length and tension of the endless conveyor is not affected by such movement, and means for raising and lowering the boom at will comprising a manually operated clutch and brake member.

1,428,241. VEHICLE WHEEL. JOHN KERCHER, Chicago, Ill. Filed May 16, 1921. Serial No. 470,139. 11 Claims. Cl. 152—21.)



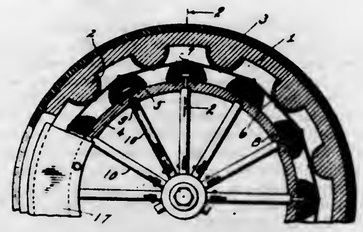
1. In a vehicle wheel, the combination of a rim, a disc extending inwardly from the rim, said disc having a slot permitting the removal of a valve casing from said rim and disc.

1,428,242. LAND-CARE MECHANISM. FRANKLIN H. KERR, Lucas, Ohio. Filed Sept. 14, 1920. Serial No. 410,318. 12 Claims. (Cl. 97—50.)



1. Land care mechanism including a drive device extending afield for travel in the line of its extent, an actuator transversely of said extent and travel of the device, and tools swingably connected to the actuator for shifting along the actuator transversely of the travel direction of the actuator.

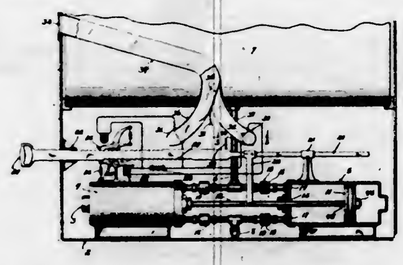
1,428,243. VEHICLE WHEEL. JEAN U. KOMÉE and ASSAD M. MALLUK, New York, N. Y., assignors to International Patent Investment Corporation, New York, N. Y., a Corporation of Delaware. Filed June 7, 1922. Serial No. 566,512. 10 Claims. (Cl. 152—37.)



7. A vehicle wheel comprising a rigid outer rim, a plurality of projections extending inwardly therefrom, a rigid inner rim, a plurality of projections extending outwardly therefrom between said first named projections, each of said outwardly extending projections being loosely mounted on said inner rim, and having a substantially semicircular cross section and a length substantially equal to the width of said inner rim and having a collar on each

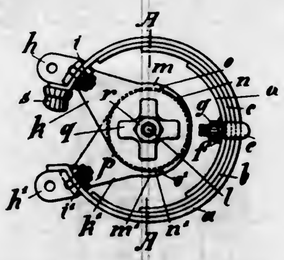
end thereof, a band of substantially inextensible material interposed between said inwardly and outwardly extending projections, means for holding said outwardly extending projections in position, and means for moving said outwardly extending projections radially to adjust the tension of said band, comprising a rod secured to each of said projections and extending inwardly inside the corresponding spoke of said wheel, said rod having rack teeth thereon adapted to be engaged by a pinion mounted on said spoke.

1,428,244. COIN-CONTROLLED LIQUID DISPENSER. EDWIN F. KROSS, Horicon, Wis. Filed June 2, 1921. Serial No. 474,362. 4 Claims. (Cl. 194—3.)



1. In a liquid dispensing device, a pair of opposed measuring cylinders, a piston reciprocable therein, locking means for normally locking said piston against movement in either direction, coin controlled means for releasing said locking means and means for rendering said locking means again operative after the piston has completed a predetermined operation.

1,428,245. ELASTIC CONNECTING SHACKLE FOR VEHICLES. ERNST KUHN, Effretikon, Switzerland. Filed June 27, 1921. Serial No. 480,867. 5 Claims. (Cl. 267—54.)



1. An improved elastic connecting shackle for vehicles for use in connection with the frame of the vehicle and with the suspension spring a circularly curved blade spring composed of several superposed steel blades, two levers one at each end of said spring, an axle arranged approximately at the center of said spring upon which the inner ends of said levers are pivoted and means upon said axle for softening by friction the vibrations of the spring.

1,428,246. PROCESS FOR PRODUCING SPUN MATERIAL RESEMBLING WOOL, COTTON, OR CHAPPE FROM VISCOSE SOLUTIONS. PAUL HERMANN MINCK, Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 16, 1919. Serial No. 297,712. 6 Claims. (Cl. 18—54.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

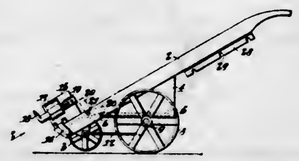
1. The process of producing wool-like threads from cellulose materials which comprises treating cellulose with a solution of caustic alkali sufficient to produce incomplete hydration without an excess of water, at a temperature not over 20° C., transforming the cellulose into xanthogenate by carbon bi-sulphide, dissolving the xanthogenate in an aqueous solution of caustic alkali of 3% to 5% and spinning the solution in a mineral acid bath.

1,428,247. COATED NAIL. DOUGLAS MORRIS, Cleveland, Ohio. Filed Feb. 23, 1922. Serial No. 538,526. 6 Claims. (Cl. 85—10.)



1. As a new article of manufacture a nail provided with a continuous depression intersecting its outer metallic surface, and provided with an outer coating of cement completely covering said outer surface and filling said depression.

1,428,248. WAREHOUSE TRUCK. ALFRED J. MORROW, Seattle, Wash. Filed Sept. 18, 1920. Serial No. 411,081. 6 Claims. (Cl. 214—65.5.)

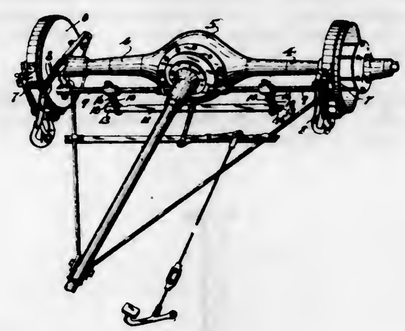


1. A warehouse truck, comprising in combination a handled frame mounted on wheels adjacent the handles, an arcuate member of sheet metal connected at each end to the side frames of the truck adjacent the wheels, toe members endwise movable adjacent each end of the arcuate member, and means limiting endwise outward movement of the toe members.

1,428,249. ANTICHATTERING COUPLING OR CONNECTION. MOSES MOSKOWITZ, Montclair, N. J. Filed Oct. 22, 1921. Serial No. 509,664. 6 Claims. (Cl. 188—205.)

3. In an automobile braking system, the combination with the rear wheel brake mechanisms of a transverse

equalizer bar, actuating lever arms connected with said brake mechanisms, said actuating lever arms having



circular seats to receive the ends of said equalizer bar, and means holding the ends of said equalizer bar against chattering in said seats.

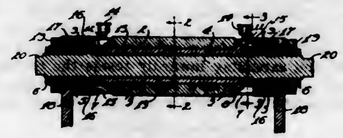
1,428,250. GARMENT SUPPORTER. EDWIN V. NORRIS, West Seneca, N. Y. Filed May 19, 1920. Serial No. 382,592. 8 Claims. (Cl. 24—87.)



4. In a device of the character described, the combination with an elastic strip or webbing, of a metallic fastener at each end of said strip comprising a flat body portion, a plurality of V-shaped prongs extending from one side of said body portion and having their points rebent and forced through the end of said elastic strip or webbing, said body portion having also a second series of V-shaped prongs whose pointed end portions lie in a plane substantially parallel with the surface of the body portion from which said prongs project.

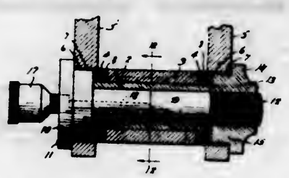
1,428,251. SELF-LUBRICATING BOLT. CHARLES H. ORTMAN, Cleveland, Ohio. Filed July 16, 1920. Serial No. 396,763. 10 Claims. (Cl. 64—27.)

1. In a device of the class described, the combination, with a bushing, of a bolt rotatably positioned therein, a bearing thimble fastened to each end of said bolt and each engaging an end of said bushing, a housing spaced from and surrounding a portion of each of said thimbles and forming a tight joint with the adjacent end of said bushing, a shackle journaled on each of said thimbles,



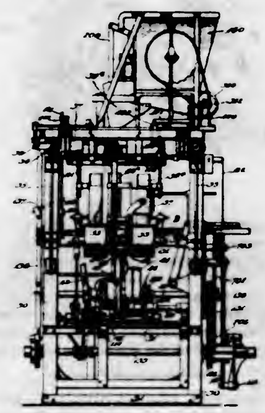
adjacent said housing, means for closing the outer portions of said housings, and means for supplying lubricant to the interior of said bushing.

1,428,252. SELF-LUBRICATING BOLT. CHARLES H. ORTMAN, Cleveland, Ohio. Filed Nov. 26, 1920. Serial No. 426,383. 3 Claims. (Cl. 267—59.)



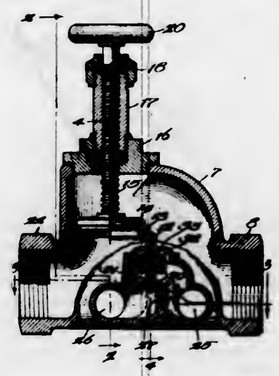
1. In a shackle bolt, the combination with a bushing, of a bolt rotatably supported in said bushing, a collar located on said bolt adjacent the head thereof, a nut threaded on the opposite end of said bolt, a collar located adjacent said nut, a lubricating duct extending from the exterior of said device to the bearing surface of said bolt, and packing means adjacent each of said collars for preventing egress of said lubricant.

1,428,253. AUTOMATIC WEIGHING MACHINE. JACKSON G. PIESER, ARTHUR L. QUAST, and JOHN C. QUAST, Chicago, Ill.; said Arthur L. Quast and said John C. Quast assignors to said Pieser. Filed Nov. 13, 1920. Serial No. 423,879. 18 Claims. (Cl. 249—59.)



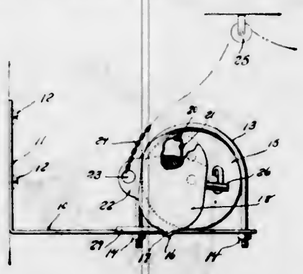
1. In a machine of the character set forth, a plurality of scales, each having a scale-pan adapted to contain a carton, storage reservoirs containing a supply of material, means for feeding material from the storage reservoirs to cartons standing on the scale-pans, means set in operation by the depression of each scale-pan for cutting off the feeding of material to the carton standing thereon, a mechanism for removing loaded cartons from the scale-pans and supplying empty cartons thereto, and means for setting said mechanism in operation by the depression of the last scale-pan.

1,428,254. COMPOUND VALVE. EDWARD P. RICH, Chicago, Ill. Original application filed Jan. 30, 1919, Serial No. 274,007. Divided and this application filed Mar. 20, 1920. Serial No. 367,549. 5 Claims. (Cl. 236—58.)



2. A device of the class described having a valve casing provided with a main shut off valve, a by-pass around said valve, an automatic valve in said by-pass, located at a point beneath the level of the main valve, and a thermosensitive element adapted to control said automatic valve, said thermosensitive element being located on the inlet side of the automatic valve.

1,428,255. ALARM CONTROL FOR DAMPERS. HARRY RIETVELD, Milwaukee, Wis. Filed Dec. 27, 1921. Serial No. 524,942. 3 Claims. (Cl. 161—8.)

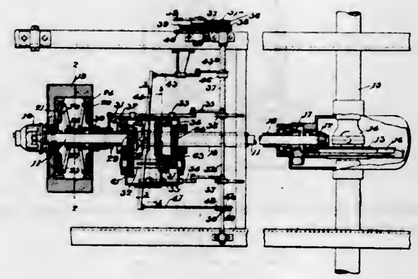


1. The combination of an alarm clock, a support therefor, a weight, a projection thereon, a support for said projection said projection and said support having limited points of contact to permit said weight to move and fall from said support, and a lug on said weight contacting with the winding wing of the alarm of said clock for holding said weight in stable position until the alarm goes off and the wing rotates.

1,428,256. PROCESS OF MAKING COFFEE EXTRACT. LUIS ANGEL ROMERO, San Francisco, Calif. Filed Jan. 14, 1920. Serial No. 351,436. Renewed June 14, 1922. Serial No. 568,236. 2 Claims. (Cl. 99—11.)

2. The process of manufacturing a coffee extract which consists in boiling pulverized coffee in water, filtering the solution thus obtained, mixing said solution with pulverized milk sugar and boiling the coffee solution and sugar until it assumes a paste-like consistency, then adding a quantity of the solution first obtained and again boiling the mixture until it assumes a paste-like consistency.

1,428,257. TRANSMISSION MECHANISM. JOHN ROTH, Richmond, Calif. Filed Nov. 2, 1921. Serial No. 512,251. 7 Claims. (Cl. 74—58.)



1. In a transmission mechanism, a drive shaft, a rear axle unit having a differential with a pair of master gears of different diameters, a first and a second propeller shaft each having a pinion in constant mesh with a different master gear, clutch means for connecting either of said propeller shafts to said drive shaft whereby two different direct driving connections may be established between the drive shaft and the rear axle, said second propeller shaft being formed in two sections, and a means whereby the speed of one of said sections may be reduced in relation to the speed of the other section.

1,428,258. WATERPROOFING COMPOSITION. OTTO RUFF, Breslau, Germany. Filed Nov. 25, 1921. Serial No. 517,954. 2 Claims. (Cl. 134—16.)

1. A waterproofing composition consisting of a colloidal solution prepared of zinc soap in ammoniacal water.

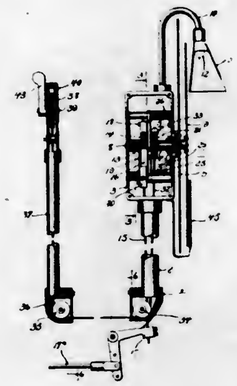
1,428,259. PROCESS FOR RENDERING CRUDE PHOSPHATES SOLUBLE. FRIEDRICH RÜSBERG, Mannheim, Germany, assignor to The Firm of Rhenania Verein Chemischer Fabriken Aktien-Gesellschaft, Zweigniederlassung Mannheim, Mannheim-Wohlgelegen, Germany, a Corporation of Germany. Filed Jan. 25, 1922. Serial No. 531,744. 10 Claims. (Cl. 71—7.)

3. An improved process for rendering crude phophates soluble, said process consisting in mixing the crude phosphate with an ammonium sulphate, adding continuously as much water to the mixture as is advisable to retain the powdery state of said mixture and acting on the wet mixture with gaseous hydrochloric acid.

1,428,260. AUTOMOBILE SIGNAL. JOHN M. SCHELLER, Milwaukee, Wis., assignor to Reliable Auto Signal Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 26, 1921. Serial No. 487,663. 4 Claims. (Cl. 116—51.)

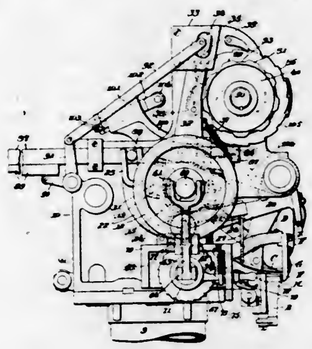
1. A signal device comprising a casing, a shaft journalled in said casing, a signal element on the shaft outwardly of the casing, a sleeve fitted over said shaft and

carrying a second signal element, sheaves mounted on said shaft and sleeve respectively, and cables trained over the



respective sheaves and connected thereto for oscillating the signal members to the desired position.

1,428,261. ROUNDING MACHINE. AUGUST R. SCHOENKY, Somerville, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed Aug. 28, 1919. Serial No. 320,382. 2 Claims. (Cl. 12- 18.)

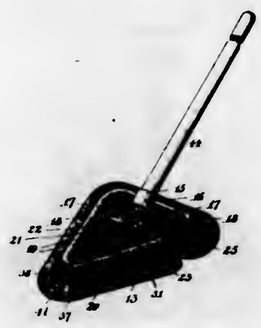


1. A shoe rounding machine comprising means for feeding the work, a trimming cutter and a guide against which the shoe contacts during operation, the elements, cutter and guide being relatively adjustable during operation to vary the width of the sole extension around the shoe, characterized by a controller, a pawl and ratchet for advancing the controller, a vibrating arm carrying the pawl, and connections actuated by the retraction of the guide for shifting the pawl carrying arm from the ratchet and thereby rendering the pawl inoperative.

1,428,262. METHOD OF WORKING ELECTRIC RESISTANCE WELDING MACHINES OPERATING WITH CONTINUOUS CURRENT. EDMUND SCHRÖDER, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Jan. 13, 1917. Serial No. 142,235. 5 Claims. (Cl. 219—10.)

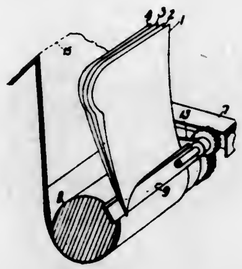
1. An electric resistance welding system utilizing continuous current, comprising an interrupter positioned directly between the source of electrical energy and the welding transformer, said interrupter being adapted to operate substantially without sparks.

1,428,263. POLISHING MOP. JOSEPH J. SHICKLUNA, Buffalo, N. Y., assignor to Buffalo Specialty Company, Buffalo, N. Y., a Corporation of New York. Filed Mar. 3, 1919. Serial No. 280,266. 5 Claims. (Cl. 15—229.)



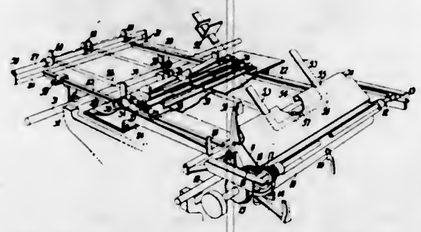
1. In a device of the kind described, a mop head formed of wire bent into loop shape with one end portion extending inwardly into the open space of said head and terminating therein and its other end terminating at a peripheral portion, a mopping element having a tubular portion fitting over said wire, and a fitting to which the inwardly extending end portion of the wire is secured.

1,428,264. WORK WEB FOR TYPEWRITERS. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 25, 1919. Serial No. 292,568. 3 Claims. (Cl. 281—2.)



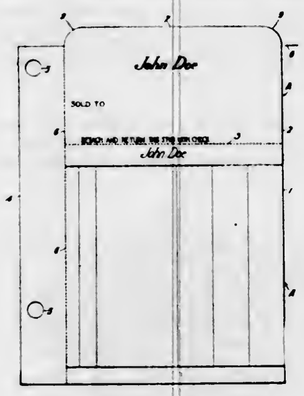
1. A printed form device to receive typewriting consisting of a multiplicity of separate plies which creep one relatively to another when passing around the cylindrical platen of a typewriting machine so that superposed forms on the different plies are moved out of register, said device having at intervals re-registering means, consisting of cross fold-lines of greater flexibility including all the plies at each group of cross fold-lines, so that the disarrangement of the register of the plies may be corrected by releasing the plies from the platen and tucking them together in the fold nearest the platen, and then restoring them to their extended condition, thereby restoring the register of the plies with one another.

1,428,265. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 11, 1919. Serial No. 316,544. 35 Claims. (Cl. 197—126.)



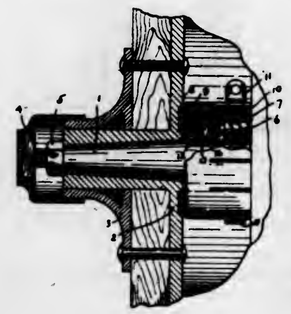
1. In a typewriting machine of the continuous billing or fan-fold type, in combination, a unitary or single-section rotative platen, carbon-holding bars for supporting carbon-sheets between the plies of fan-folded webs arranged side by side and thus fed to the platen, a carbon carriage movable toward and away from the platen at the introductory side thereof and provided at one side of the machine with a support for certain of said bars and provided at the other side of the machine with a support for others of said bars, said bars being of sufficient length to pass in relatively overlapping relation from one to another of said webs and between the plies thereof, and web-severing means at the rear of said bars for slitting said webs at their folds to provide for the passing of said bars from one to another of the initially fan-folded webs.

1,428,266. INVOICE SHEET. JESSE A. B. SMITH, Fairfield, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 18, 1920. Serial No. 417,655. 5 Claims. (Cl. 282—28.)



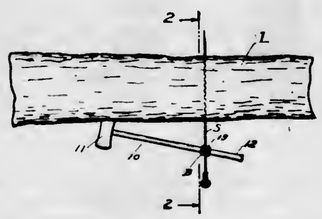
1. For use in a typewriting machine, an entry sheet comprising a body part, a lateral filing marginal part at one side of the body part and detachably connected therewith along a vertical weakened line of detachment, and an upper extension projecting from and extending along the full width of the upper end of the body part and terminating at said vertical weakened line of detachment to form a leading edge for the body part and having blunt right and left upper corners to be carried by and remain upon the upper end of the body part after the detachment therefrom of the lateral filing marginal part.

1,428,267. GREASE RETAINER AND DUST CAP. LLOYD A. T. SOLDANE and VERLE V. VAN NATTAN, San Francisco, Calif. Filed Jan. 24, 1922. Serial No. 531,388. 6 Claims. (Cl. 301—126.)



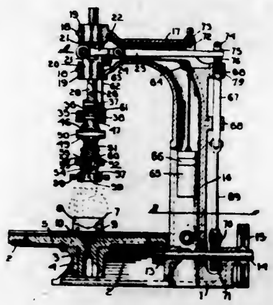
4. In combination with a wheel and axle of a vehicle, a cup shaped packing member formed to fit within a dust cap, a dust cap, an inner projecting collar formed within said member and concentric with the periphery thereof, clamp means to secure said dust cap on said cup member and to compress the latter against a relatively stationary part of a vehicle, a spring member constructed and adapted to normally compress said collar, and a bearing retainer ring adapted to cover said spring member, the inner edge of said collar representing a wiping edge making an acute angle with the axis of the cup member.

1,428,268. SAW SUPPORT AND GUIDE. DAVID W. SOLOMON, Redmond, Wash. Filed Feb. 12, 1921. Serial No. 444,603. 1 Claim. (Cl. 143—163.)



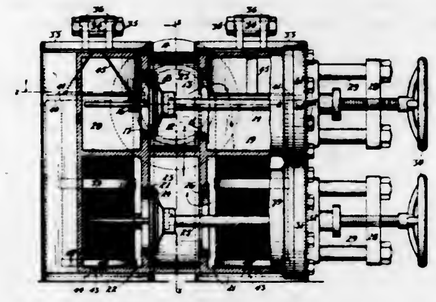
A saw guide and support, comprising a saddle-shaped block adapted to seat upon an axe handle, the convex surface of the block being provided with a saw-guiding groove arranged right angularly to the longitudinal axis of the block, said block being provided with cavities for a lubricant, and means to secure said block in place.

1,428,269. AUTOMATIC GRINDING MACHINE. LAWRENCE A. SORBY, Arlington, Mass. Filed Feb. 14, 1920. Serial No. 358,663. 19 Claims. (Cl. 51—28.)



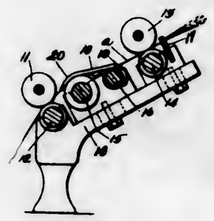
1. A valve grinding machine comprising a support for a valve casing, and means for continuously rotating the same in one direction, a support for the valve and means for reciprocating the same in the direction of the axis of rotation whereby said combined rotary and reciprocating movements will effect a grinding movement between the walls of said valve and valve casing.

1,428,270. TWIN STRAINER. CARL F. BRAUN, San Francisco, Calif. Filed Mar. 13, 1919. Serial No. 282,259. 5 Claims. (Cl. 210—168.)



1. In a twin strainer, a pair of vertical screen housings, a pair of horizontal and superimposed valve housings formed on one side of the screen housings, each valve housing having a pair of passages extending therefrom, a passage of the upper valve housing communicating with the upper end of each screen housing and a passage of the lower valve housing communicating with the lower end of each screen housing, a screen member in each of said screen housings, an inlet connection for one of the valve housings and an outlet connection for the other valve housing, and a valve in each valve housing whereby the passages of each housing leading to the screen housings may be alternately closed or opened.

1,428,271. DRAWING MECHANISM. ARTHUR CECIL BUTLER, Boston, Mass. Filed Feb. 18, 1921. Serial No. 445,921. 9 Claims. (Cl. 19—130.)



1. A drawing mechanism comprising bottom rolls, and a gravity cap hung upon one of said rolls and resting loosely upon the other roll and under which the roving passes.

1,428,272. COATING COMPOSITION AND PROCESS OF PRODUCING THE SAME. WILLIAM A. COLLINGS, Kansas City, Mo. Filed Nov. 5, 1921. Serial No. 513,017. 14 Claims. (Cl. 134—44.)

4. A material for protective paints comprising an oil jellied by incorporated water insoluble soap and containing incorporated fine cement.

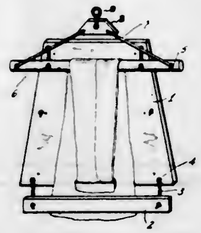
11. The process of making protective coating materials which comprises jellying hot raw linseed oil by incorporating aluminum stearate, aging the jelly and admixing Portland cement with the jelly in sufficient proportion to make a stiff paste.

1,428,273. PAINT VEHICLE. WILLIAM A. COLLINGS, Kansas City, Mo. Filed Feb. 28, 1922. Serial No. 539,916. 10 Claims. (Cl. 134—56.)

5. The process of making an improved oil product useful as a vehicle for paint and varnish, which comprises distilling a mineral oil of high iodin number to free it of contained pitchy or waxy matter, and incorporating a water-insoluble metal soap therein.

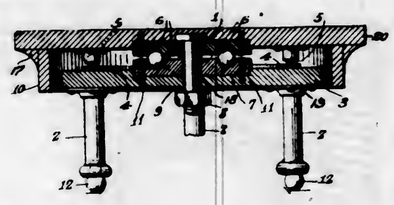
7. The process of making an improved oil product useful as a vehicle for paint and varnish, which comprises air blowing a petroleum distillate of high iodin number and incorporating a water-insoluble metal soap therein.

1,428,274. TROUSERS STRETCHER AND PRESSER. ISRAEL COSBE, Cleveland, Ohio. Filed May 11, 1921. Serial No. 468,737. 5 Claims. (Cl. 223—19.)



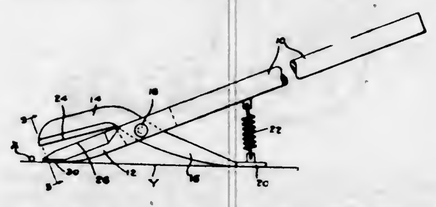
1. In a trousers stretcher and presser, in combination, a back member, cross pieces loosely carried at opposite ends thereof, and cable means secured to the said cross pieces and passing through the said back member and retaining both of the said cross pieces in clamping engagement with the back member.

1,428,275. KNOCKDOWN REVOLVING TABLE. GUST J. DAHL, Spuhn Island, Alaska. Filed Sept. 6, 1921. Serial No. 498,904. 1 Claim. (Cl. 45—26.)



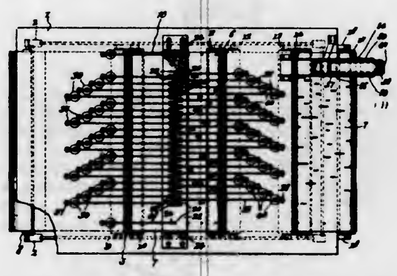
The combination of a revolving table comprising a main section having top and legs, a revolving section having a top, with downturned flanges at periphery thereof, a pivot pin connecting the centers of said sections, a ball bearing in two parts, one part attached to each section and surrounding said pivot pin, a circular track positioned near periphery and on the top of said main section, and balls mounted in bearings on the underside of the revolving top to roll on said track, all as substantially described.

1,428,276. WIRE-CUTTING IMPLEMENT. PAUL P. DANIELS, Minneapolis, Minn. Filed July 21, 1920. Serial No. 398,001. 1 Claim. (Cl. 30—17.)



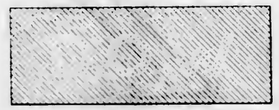
An implement for cutting wires which are embedded in cement comprising a long handle member, the forward portion of which is provided with a broad convex lower surface which extends to the extreme forward end and which merges into a substantially straight cutting edge at its upper surface, a short fulcrum member crossing said handle member and pivoted thereto adjacent the rear of said cutting edge, and a cooperating cutting edge on the forward portion of said fulcrum member.

1,428,277. MUSIC-ROLL PERFORATOR AND PRINTER. JOSEPH JOHN DAVILLA, New Orleans, La. Filed June 13, 1921. Serial No. 477,297. 4 Claims. (Cl. 164—113.)



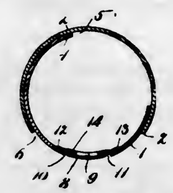
1. A music roll perforator and printer comprising a table having slots therein with a portion forming an anvil between the slots, selectively-controlled punches above the anvil for perforating the web, means beneath the table for supporting the web and guiding it upon the upper surface of the anvil through one of the slots and subsequently downwardly through the other slot at the opposite side of the anvil, said table having a further slotted portion forming a platen, and means for guiding the web upon the platen, substantially as described.

1,428,278. PROTECTIVE PRINTING. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company. Filed Dec. 11, 1920. Serial No. 429,878. 4 Claims. (Cl. 283—8.)



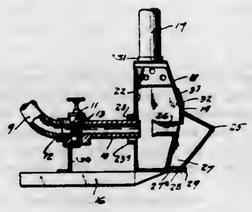
1. A printed article having a figure or design impressed in different portions with inks having the same color to the naked eye but possessing different optical properties in another respect.

1,428,279. REMOVABLE LABEL FOR CARRIERS. CLIFFORD R. DUMBLE, Arlington, Mass., assignor, by mesne assignments, to The Lamson Company, Boston, Mass., a Corporation of Massachusetts. Filed June 7, 1921. Serial No. 475,588. 17 Claims. (Cl. 243—39.)



1. A carrier comprising relatively movable inner and outer casings having openings adapted to be moved into and out of alinement by the relative movement of the casings in opening and closing the carrier, and means whereby an indicator label may be removably secured to the wall of one of said casings.

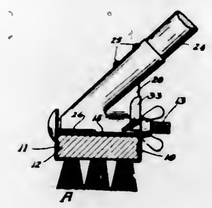
1,428,280. BRANDING IRON. CHARLES F. FRAZIER, South Greenfield, Mo. Filed Dec. 14, 1921. Serial No. 522,332. 3 Claims. (Cl. 158—16.)



1. A branding iron of the character described comprising a reservoir, a handle member extending from one side of the reservoir, a brace projecting from the opposite side of the reservoir, a base member disposed beneath the reservoir, the opposite end of said handle being con-

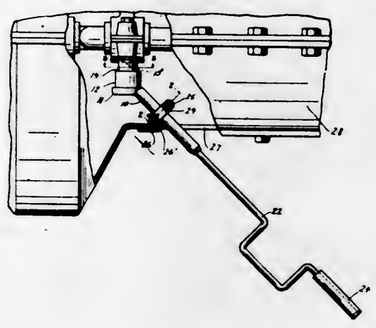
nected to the base, a chamber engaged with the opposite end of the base and said brace member, a branding iron carried by said chamber, and a burner carried by the reservoir and connected to the base, said burner extending into the chamber for heating the branding iron.

1,428,281. BRUSH CLAMP. WALTER B. EAGAN, Chicago, Ill. Filed Jan. 18, 1922. Serial No. 530,109. 5 Claims. (Cl. 15—146.)



1. A brush holded comprising one piece clamping members; a socket formed on one of said members, there being upwardly extending reinforcing members for said socket; a handle mounted in said socket; a lateral support formed on one of said clamping members; and a member carried by said support and passing through the lower portion of said socket member for adjustably mounting said clamping members in clamping engagement with the back of a brush, substantially as described.

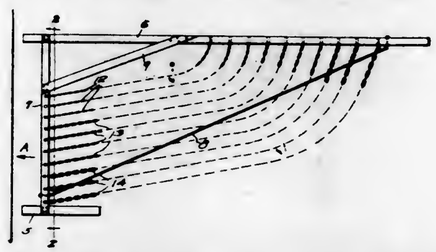
1,428,282. WRENCH. RUDOLPH L. GLABAZNYA, Chicago, Ill. Filed Aug. 18, 1921. Serial No. 493,433. 8 Claims. (Cl. 81—57.)



1. A wrench of the class described comprising a sleeve; a nut receiving socket mounted on said sleeve; an operating shaft journalled through said sleeve and operatively connected to said socket; an angular bearing member adjustably carried by said sleeve adapted to engage the edge of the opening of a crank shaft casing, substantially as described.

1,428,283. ROAD RAKING AND SWEEPING DEVICE. CHARLES A. GUNDERSON and RICHARD P. MASON, Escanaba, Mich. Filed Sept. 6, 1921. Serial No. 498,623. 3 Claims. (Cl. 37—5.)

1. A device of the character described comprising a frame having a longitudinally extending member and a transversely extending member the latter being at the front end of the frame, of a plurality of chains having



their ends attached to said members at spaced points in the length thereof and of such length as to describe a curve between said members.

1,428,284. GRASS CUTTER. OSCAR J. HEIMANN, Urbana, Ohio. Filed Sept. 2, 1921. Serial No. 497,823. 5 Claims. (Cl. 56—246.)



1. In a machine of the character described, a ground wheel having a plurality of cams on the interior thereof, a support enclosing one side of said wheel, a bearing on said support for said wheel, a cam follower carried by said support co-operating with the cams of said wheel to impart a reciprocating movement to said follower, stationary and oscillating cutting members carried by said support, and a connection between said follower and said oscillating members.

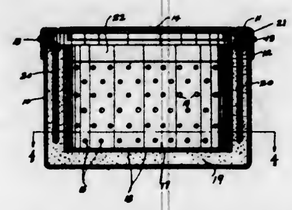
1,428,285. HANDLE. FRED S. HERBERT, Colorado Springs, Colo. Filed Nov. 29, 1920. Serial No. 427,079. 5 Claims. (Cl. 224—25.)



1. A handle of the character described comprising a plate having a hook member on one end thereof, fastening

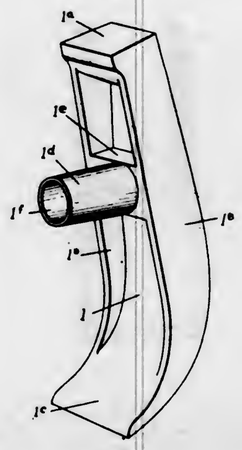
means carried by the opposite end of the plate for securing said plate to the arm of a person and a hand grip carried by the plate between the fastening means and said hook member.

1,428,286. DUST-CLOTH CONTAINER. ANDREW HOLM, Chicago, Ill. Filed Sept. 23, 1920. Serial No. 412,320. 5 Claims. (Cl. 206—1.)



1. A container for a dust cloth or the like comprising a casing; a holder having perforations in its walls arranged in said casing in spaced relation with respect thereto; a quantity of absorbent material substantially filling the space between said parts and supporting said holder within said casing; and an open-ended tube extending down into said absorbent material for feeding oil thereto, substantially as described.

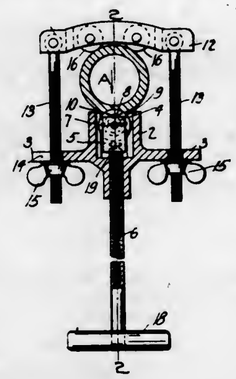
1,428,287. ADZ. FRED A. HOLMES, Belfast, Me. Filed Apr. 7, 1922. Serial No. 550,381. 1 Claim. (Cl. 145—2.)



A cooper's adz, comprising a body having a hammer head at one end and a curved cutting blade at its lower end, and flanges on each side connecting the head with the blade, the outer surfaces of said flanges being flush with the side edges of the body, a cross bar connecting the flanges adjacent the midpoint of said body having a socket to receive the handle, all formed integral, substantially as and for the purpose described.

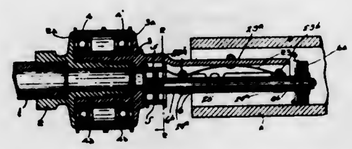
1,428,288. PIPE CUTTER. JAMES G. KEATLEY, Denver, Colo. Filed July 20, 1921. Serial No. 486,073. 4 Claims. (Cl. 81—191.)

1. A pipe cutter comprising a stock having a socket and a rigid pipe-seat at an end thereof, means connected with the stock to hold a pipe to the seat thereof, a grooved cutter-head slidably fitted in the socket of the



stock, a cutter wheel mounted in the groove of the head, and a feed screw working in the stock in connection with the cutter head.

1,428,289. GRINDING ATTACHMENT. HORACE G. KENNEDY, Denver, Colo., assignor of one-half to John A. Hingley, Denver, Colo. Filed Sept. 18, 1919. Serial No. 324,437. 11 Claims. (Cl. 51—261.)



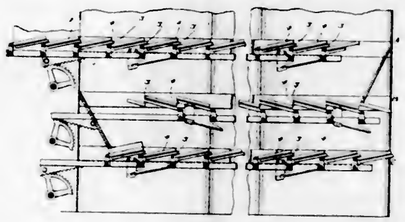
1. In mechanism for grinding internal surfaces, a rotatable support having a relatively immovable extension member substantially parallel with the axis of the support adapted to enter the bore of a hollow body, a grinding tool spindle adjustably carried by said extension member substantially parallel therewith, and means whereby said spindle may be adjusted with respect to said extension member in order to vary its eccentricity with respect to the axis of said extension member.

2. In grinding mechanism of the class described, a rotatable support, a grinding tool spindle carried by the support substantially parallel with the axis and rotatable independently of said support, means for adjusting the grinding tool spindle to vary the degree of eccentricity thereof with respect to the axis of said rotatable support, said means including a device constantly exerting a yielding force tending to move the grinding wheel spindle toward said axis and a device for positively moving said spindle away from said axis in opposition to the force of said yielding device.

1,428,290. DRIER FOR TEXTILE STOCK, ETC. MATHEW F. KEVLIN, Springfield, Vt. Filed June 21, 1920. Serial No. 390,415. 4 Claims. (Cl. 178—221.)

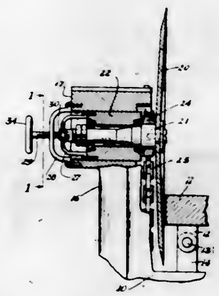
3. A drier, for loose stock, having a feeding and supporting platform comprising a plurality of fixed and movable shelves or tables, alternated, said shelves or tables each having mounted in connection therewith wiper-means for coaction with the next adjoining shelf or table, such wiper-means comprising an alined series of wiper-sections having wiping surfaces of flexible material,

springs which press the wiper-sections into contact with the surface which they wipe, and clips applied to a shelf or table, retaining the corresponding wiper-sections in



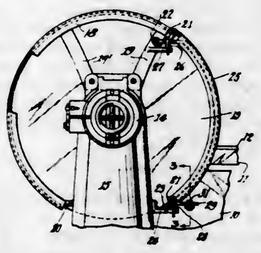
working connection therewith, and preventing accidental disconnection of the wiper-sections from the shelf or table when the latter is disassembled.

1,428,291. ADJUSTING MEANS FOR SLICING-MACHINE KNIVES. PATRICK J. LUCEY, Chicago, Ill. Filed Feb. 10, 1922. Serial No. 535,505. 18 Claims. (Cl. 17—24.)



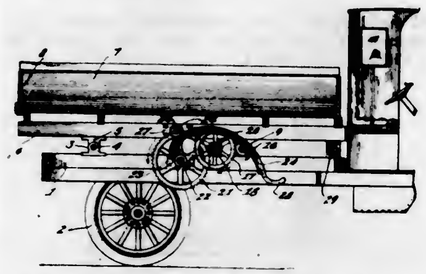
1. In combination with a slicing machine and a knife rotatably mounted thereon, means for adjusting said knife axially on said machine with minute accuracy.

1,428,292. KNIFE GUARD FOR SLICING MACHINES. PATRICK J. LUCEY, Chicago, Ill. Filed Feb. 17, 1922. Serial No. 537,297. 16 Claims. (Cl. 17—24.)



1. In a machine of the class described, having a rotatable knife, a knife guard laterally swingable over a peripheral portion of said knife, and means actuated by said machine for automatically operating said guard with said machine.

1,428,293. DUMP TRUCK. ROBERT MCELDOWNEY, Canton, Ohio, assignor to Michael H. McKenna, Cleveland, Ohio. Filed July 24, 1920. Serial No. 398,690. 1 Claim. (Cl. 298—19.)



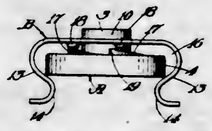
In a truck, the combination of a frame, a body pivotally mounted near its rear end upon the frame, a roller upon the under side of the body forward of the pivotal point of the body, a rock shaft in the frame beneath and forward of the roller, a cam arm having a forwardly disposed arcuate portion for engagement with the roller and an inwardly disposed portion connected to the rock shaft and means for rocking said rock shaft to tilt the body upon its pivot.

1,428,294. STOVEPIPE THIMBLE. JAMES MORTIMER MEADE, Honeoye, N. Y. Filed Feb. 6, 1922. Serial No. 534,522. 9 Claims. (Cl. 126—3.)



6. In a stove pipe-thimble, telescoping sections, shells of heat insulating material associated with said sections, and collars carried by said sections.

1,428,295. BOTTLE CLOSURE. FRANCIS H. MILLS, Boston, Mass. Filed Nov. 10, 1921. Serial No. 514,408. 6 Claims. (Cl. 215—65.)



1. A bottle closure having a cap member to go over the top of a bottle, and a clamping member rotatably mounted

on the upper side of the cap member and slightly movable axially with relation thereto, the clamping member being provided with means for engaging the beaded rim of a bottle, the proximate surfaces of the clamping member and the cap member being provided one with cam surfaces and the other with projections which engage said cam surfaces, whereby the rotation of the clamping member causes the said projections to ride up on the cam surfaces and tightly clamp the said cap to the top of the bottle.

1,428,296. KNIFE. MAX NEFT, Seattle, Wash. Filed July 8, 1921. Serial No. 483,287. 3 Claims. (Cl. 30—10.)



1. A knife comprising a main casing plate and a complementary casing plate hinged thereto to swing in a plane at right angles to the plane of said plate, said complementary casing plate being shorter than said main casing plate, an auxiliary plate mounted on said main casing plate in alinement with said complementary casing plate, and adapted to form a continuation thereof when the casing plate is in closed position, said casing plates being provided with longitudinal flanges arranged on opposite sides and adapted to form the sides of the casing, a pivot pin extending through said auxiliary plate and said main casing plate, and a blade mounted on said pivot pin between said auxiliary plate and said main casing plate, said blade being adapted to swing in a plane parallel to the plane of the casing plate.

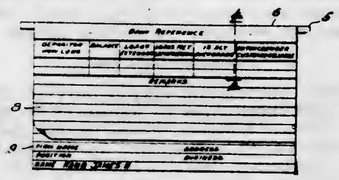
1,428,297. POURING DEVICE FOR BOTTLES AND THE LIKE. STEPHEN C. PRICE, Louisiana, Mo., assignor to Frank W. Buffum, Louisiana, Mo. Filed Oct. 17, 1921. Serial No. 508,213. 4 Claims. (Cl. 215—79.)



4. A pouring device for bottles and the like, comprising a discharge spout, a housing secured thereto, spring arms secured to the housing, said housing and arms adapted to embrace a bottle neck, and a vent pipe carried by said housing.

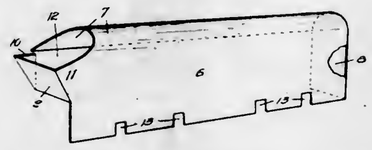
1,428,298. INDEX ELEMENT. JAMES H. RAND, North Tonawanda, N. Y. Filed June 11, 1921. Serial No. 476,732. 8 Claims. (Cl. 129—16.7.)

1. An index element comprising a relatively long and narrow, flat, supporting bar, and a sheet folded upon itself to form two leaves, one normally overlying the



other, the margin of the rear leaf adjacent said fold being secured to the flat face of the supporting bar.

1,428,299. AUTOMOBILE BODY HEATER. HIRAM C. ROGERS, St. Louis, Mo. Filed Dec. 2, 1918. Serial No. 264,887. 1 Claim. (Cl. 237—12.3.)



In combination with an exhaust manifold of an internal combustion engine, a heater hood consisting of a metallic sheet forming an outer side wall terminating at its upper end in a curved top and at one end in a closed end wall for said hood, a portion of the forward end of said side wall terminating in a transversely disposed inclined breast plate, a portion of the free end thereof terminating in a rearwardly directed short wall piece to assist in forming a neck having a hot air discharge opening and the outer side wall of said hood having its lower edge provided with a plurality of cutaway portions to straddle and receive engine studs provided with securing nuts for supporting and locking the hood in position about the exhaust manifold.

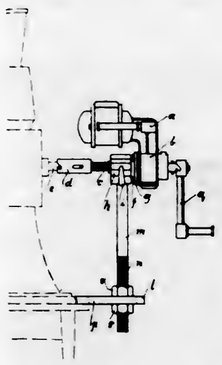
1,428,300. WELL PUMPING APPARATUS. CHARLES C. SCHARPENBERG, Bakersfield, Calif. Filed Apr. 1, 1922. Serial No. 548,817. 8 Claims. (Cl. 103—46.)



1. A pumping apparatus comprising a shell adapted for suspension within the fluid to be pumped; a reciprocative pump member within said shell; a conduit member into

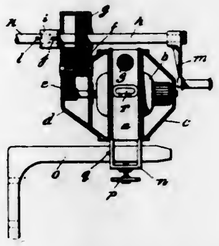
which the pump member discharges; a reversing electric motor within the shell; and connections for driving the reciprocative pump member from the motor, consisting of a threaded shaft connected with the motor shaft, and a traveling nut connected with the pump plunger.

1,428,301. DEVICE FOR FIXING DRIVING ENGINES OR ELECTROMOTORS TO MACHINES TO BE DRIVEN. JOHANN SCHRÖDER, Bremen, Germany, assignor to Landwirtschaftlicke Maschinen-Gesellschaft, Hemelingen, near Bremen, Germany. Filed Jan. 26, 1920. Serial No. 354,295. 5 Claims. (Cl. 64—52.)



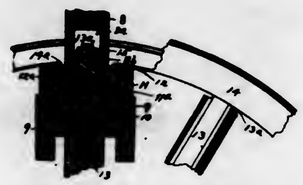
1. An improved device for fixing to the machine to be driven a driving engine or electromotor having a shafting, comprising in combination an extension of the casing of the driving engine or electromotor situated within the vertical plane of the driving shaft and serving as guiding device, a lateral bearing, and a guiding holder fixed to the machine to be driven adapted to receive the said extension of the casing to secure the shafts of the driving engine and of the machine to be driven in aligned position.

1,428,302. ELECTROMOTOR WITH CONNECTING GEAR. HEINRICH SCHRÖDER, Shedinghausen, Germany, assignor to Landwirtschaftliche Maschinen-Gesellschaft, Hemelingen, near Bremen, Germany. Filed Dec. 22, 1919. Serial No. 346,804. 2 Claims. (Cl. 74—7.)



1. An improved electromotor with connecting gear comprising in combination with the electromotor a driving shaft of the same, a coupling sleeve movably mounted upon the front end of said shaft, a bracket extending from the motor casing, an arm projecting from the machine to be driven adapted to receive the said bracket of the electromotor, a clamping screw in said bracket for fixing the motor upon said arm an abutment pin upon said arm of the machine to be driven for securing the proper position of the electromotor with regard to the machine and a pin projecting from the shaft of the driven machine adapted to engage with the said coupling sleeve substantially as described and shown.

1,428,303. PRESS FOR SETTING METAL FELLY WHEELS. PETER C. SEEBERG, Clovis, Calif. Filed Aug. 22, 1921. Serial No. 494,128. 3 Claims. (Cl. 153—10.)



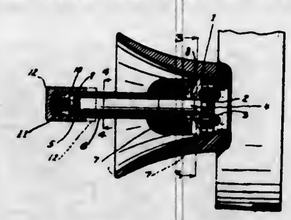
3. A tool for tightening the spokes of a wheel having metal rims and wooden spokes, said spokes being fitted in tubular projections formed on said rim, consisting of a die having an opening therethrough adapted to fit around the spoke where it enters the rim, and having said opening countersunk in the face of the die so that when assembled with the spoke an annular groove is formed within the face of the die around the spoke, said die being longitudinally halved, a press base adapted to hold the two parts of said die rigidly together, a tubular set adapted to encircle said tubular projection, and to engage said annular groove in the die, and means for forcing the set adjacent to the face of the die, substantially as described.

1,428,304. AUTOMATIC PISTOL. DONALD H. STEVENSON, Gardner, Mont. Filed Aug. 5, 1920. Serial No. 401,416. 11 Claims. (Cl. 42—4.)

1. In a fire-arm the combination with a slidable barrel and barrel extension, of a breech block within said barrel extension, ribs disposed on the inner faces of the side walls of the barrel extension and extending longitudinally thereof, the upper longitudinal edges of said ribs being inclined to the axis of the barrel, said inclined edges extending upward and rearward from the front ends of said ribs, the rear end of said breech block normally bearing against the forward ends of said ribs, and means operable at the end of the recoil movement of said barrel and barrel extension to tilt the rear end of said breech block upward, out of locking engagement with said ribs.

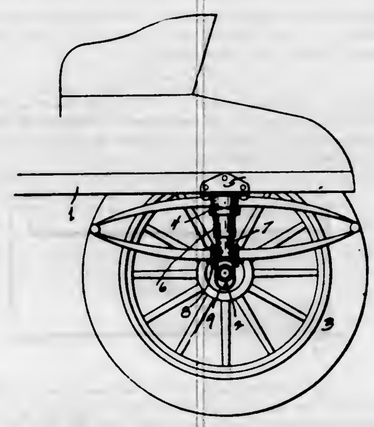
1,428,305. ATTACHMENT FOR TELEPHONE TRANSMITTERS. FRED SUTHERLAND, Chicago, Ill. Filed Aug. 3, 1921. Serial No. 489,437. 12 Claims. (Cl. 179—188.)

1. The combination of a telephone transmitter, and an elastic member smaller than the interior of said transmitter adapted to be thrust against the bottom of said transmitter to spread same so as to fill the space between



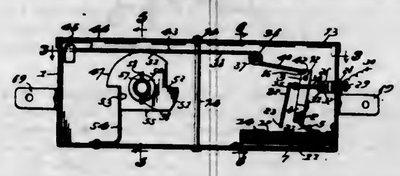
the walls thereof; and guide means in said transmitter slidably carrying said elastic member, substantially as described.

1,428,306. SHOCK ABSORBER. GEORGE H. TRIPPLEHORN, Highland Park, Mich. Filed Aug. 2, 1920. Serial No. 400,569. 6 Claims. (Cl. 267—28.)



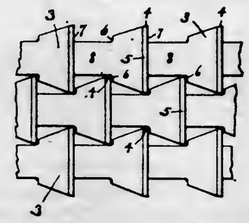
1. In a shock absorber for use between a vehicle frame and axle, a bracket secured to the vehicle frame, a cylindrical member formed integrally therewith and threaded on its inner face, a tubular member threaded therein and having an internal flange at its lower end, a tubular piston reciprocably mounted in the said tubular member and having an external flange at its upper end fitting the inner face of the said tubular member, a foot on the said piston adapted to be engaged by upward movement of the vehicle axle, a plunger within the cylindrical member, a compression spring between the tubular piston and plunger, and a strap secured to the plunger and extending about the vehicle axle.

1,428,307. AUTOMOBILE THEFT-PREVENTING DEVICE. LOUIS F. WESCHE, Webb, Iowa. Filed Aug. 24, 1921. Serial No. 495,055. 10 Claims. (Cl. 116—33.)



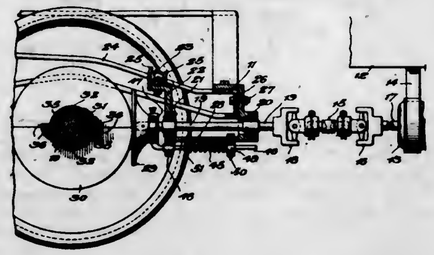
9. In a device for the purpose indicated, a casing, a plurality of alarm bombs including a series of percussion caps for exploding said bombs, a plurality of hammers, a plurality of vibrating members to hold the hammers set, whereby upon vibration of any one or more of said members, one or more of the hammers may release for firing one or more percussion caps, means for preventing the members from vibrating, said means comprising a plurality of rotatable discs having arcuate edges to engage and prevent the members from vibrating, said discs having flattened edges, means adapted to be rotated for rotating any one or a combination of said discs for exposing the flattened edges opposite one or a combination of said vibrating members, whereby said members are free to vibrate, to release one or a combination of hammers.

1,428,308. MILLING CUTTER. FREDERICK WIARD, Detroit, Mich., assignor to American Standard Tool Company, Detroit, Mich., a Corporation of Michigan. Filed June 4, 1921. Serial No. 475,014. 6 Claims. (Cl. 29—104.)



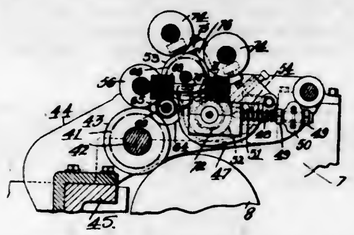
1. Milling cutters, each having side-cutting teeth, all of the same shape and size, and having the sides of the teeth back of their cutting edges so cut away as to permit the faces of the teeth of adjacent cutters to overlap circumferentially.

1,428,309. TRAIN-LIGHTING-GENERATOR DRIVE. DON C. WILSON, New York, N. Y. Filed Sept. 13, 1920. Serial No. 410,081. 12 Claims. (Cl. 105—17.)



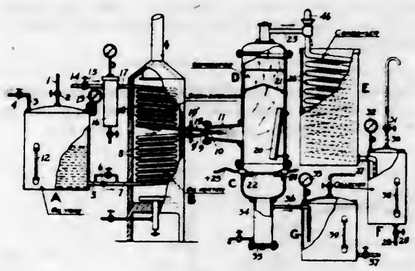
1. Mechanism for driving a generator at constant speed from the axle of a truck including in combination, a split sleeve secured to the axle, a split disc slidable on said sleeve and rotatable therewith, a shaft disposed at right angles to the axis of the axle, two spaced bearings on the truck for said shaft, a disc on one end of the shaft having its face contacting the periphery of said split disc, a spring forcing said discs together, a shaft having universal joint connection at one end to the end of said first mentioned shaft and at its other end to the armature shaft of said generator, and speed responsive means for shifting the first mentioned disc across the face of the second to drive said shaft at a substantially constant speed.

1,428,310. INKING DEVICE FOR LATE-NEWS AND OTHER PRINTING MACHINES. HENRY A. WISE WOOD, New York, N. Y., and JOHN A. ISBELL, Middletown, N. Y., assignors to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Substitute for abandoned application Serial No. 42,483, filed July 29, 1915. This application filed Jan. 31, 1919, Serial No. 274,165. Renewed Feb. 3, 1922. Serial No. 533,962. 7 Claims. (Cl. 101—350.)



3. In a fudge device, the combination of a fudge cylinder, means for rotating it, an ink fountain having an inner pair of bearings for preventing the escape of ink, a fountain roll journalled in said bearings its end studs projecting beyond them, and additional bearings engaging said studs for supporting the weight of said roll.

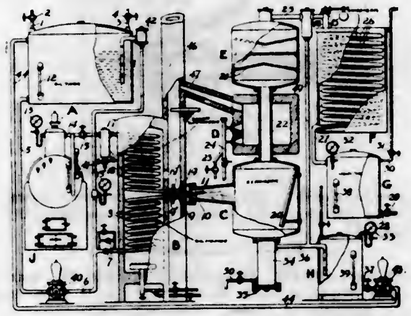
1,428,311. OIL-CONVERTING PROCESS FOR THE CONVERSION AND TRANSFORMATION OF OILS. JOSEPH H. ADAMS, Flatbush, N. Y., assignor to The Texas Company, Houston, Tex., a Corporation of Texas. Filed June 25, 1918. Serial No. 241,836. 9 Claims. (Cl. 196—25.)



8. A process of producing lower boiling hydrocarbons from higher boiling hydrocarbons that comprises spraying a mixture of hot oil and steam into a chamber, the steam being superheated to a temperatnre sufficient to crack the oil by its direct action as it is commingled therewith, separating out and collecting the heavy residue in the lower portion of the chamber, withdrawing the collected residue, and taking off and condensing the evolved vapors from the upper portion of the chamber.

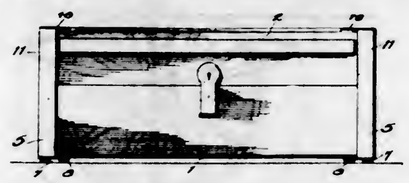
1,428,312. OIL-CONVERTING APPARATUS FOR THE CONVERSION AND TRANSFORMATION OF OILS. JOSEPH H. ADAMS, Flatbush, N. Y., assignor to The Texas Company, Houston, Tex., a Corporation of Texas. Filed June 25, 1918. Serial No. 241,837. 7 Claims. (Cl. 196—25.)

1. An oil converting apparatus comprising an expansion chamber having spaced chambers with a communicating passage, means for imparting heat to the communicating passage, a nozzle adapted to discharge into one of the chambers, an oil heating coil and a steam superheating coil connected to the nozzle, means for heating the coils so that the oil is vaporized and largely cracked by the direct action of the superheated steam as it is discharged from the nozzle into one of said chambers, a condenser in open



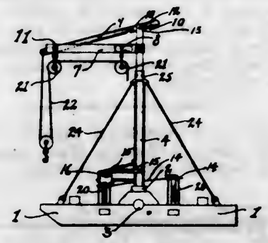
communication with the expansion chamber and means for maintaining super-atmospheric pressure through the expansion chamber and condenser.

1,428,313. TRUNK. ANTON WILLIAM BALDER, Pittsburg, Calif., assignor of one-fourth to Martin W. Dunn, Oakland, Calif. Filed Apr. 7, 1920. Serial No. 371,991. 2 Claims. (Cl. 190—19.)



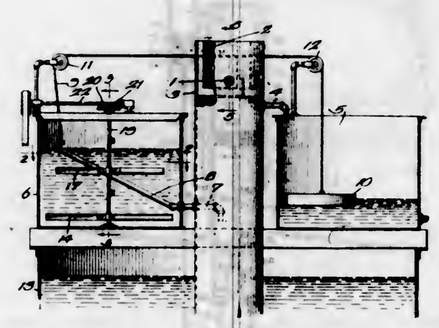
1. A trunk having hinged to the bottom thereof legs for supporting the trunk in elevated position, said legs being of angular material and connected with the trunk to fold up and fit about the corners thereof to provide reinforcements for the said corners, the cover and legs having interengaging means for holding said legs in folded position.

1,428,314. DERRICK. JOHN L. BARNES, Whigville, Ohio. Filed Aug. 24, 1921. Serial No. 494,796. 2 Claims. (Cl. 212—59.)



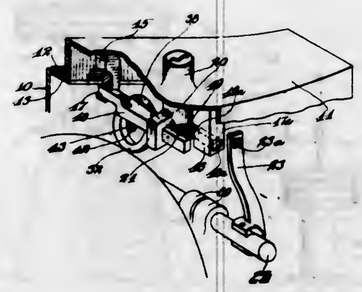
2. A swivel derrick, comprising a ground frame; a mast supported on the frame and adapted to rotate and to be raised vertically or lowered horizontally as desired; an adjustable arm at the upper end of the mast; a semi-circular track at the base of the mast; a roller traveling said track and connected with said mast; pulley and cable tackle arranged on the mast arm; and means for rotating the mast laterally.

1,428,315. MIXING APPARATUS. KENT W. BARTLETT, Hammond, Ind. Filed Mar. 7, 1922. Serial No. 541,766. 8 Claims. (Cl. 259—23.)



1. Mixing apparatus including a tank; a revolving agitator within the tank; and an inclined pipe within the tank for conveying mixed material from the tank, this pipe intersecting the plane of rotation of the agitator and being bent where it intersects the plane of rotation of the revolving agitator to lie outside of the circuit of rotation of this agitator in the zone of rotation thereof.

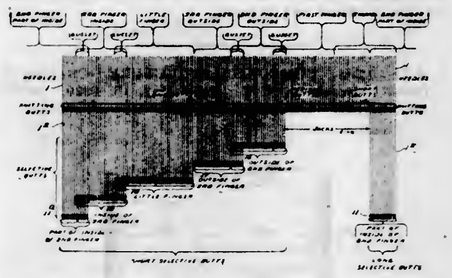
1,428,316. TRANSMISSION LOCK. ERNEST H. BAXTER, Chicago, Ill. Filed Apr. 30, 1920. Serial No. 377,883. 1 Claim. (Cl. 70—90.)



The combination with a clutch controlling shaft; of a radial arm fast on said shaft and having a transverse keeper aperture, a bolt slidably positioned transversely of the arm to enter the keeper aperture when the latter is in alinement with the bolt, and lock controlled means for actuating the bolt.

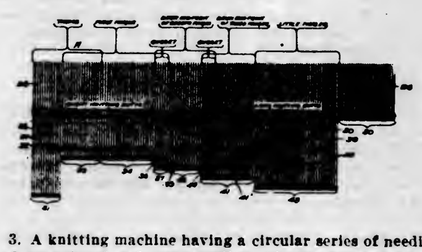
1,428,317. KNITTING MACHINE. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed May 8, 1918. Serial No. 233,301. 37 Claims. (Cl. 66—24.)

34. A knitting machine having a circular series of needles and a carrier therefor, knitting cams, selective means to render said needles divisible into groups for reciprocating work, non-knitting cams cooperating with said selective means to complete the segregation of said groups



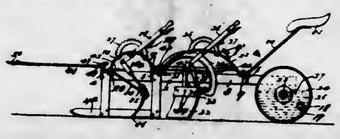
and the restoration thereof, said non-knitting cams including a plural-needle-group-withdrawal cam or cams.

1,428,318. MECHANISM FOR KNITTING GLOVES. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed Nov. 20, 1918. Serial No. 263,284. 26 Claims. (Cl. 66—24.)



3. A knitting machine having a circular series of needles and a carrier therefor, a plurality of knitting cams, means to knit tubular fabric on said needles by one of said knitting cams and means for knitting in succession a plurality of selvaged strips as actual continuations of said tubular fabric and upon the respective knitting cams.

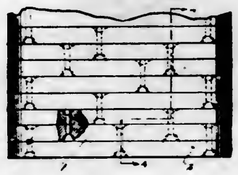
1,428,319. ROAD DRAG OR GRADING MACHINE. JOHN W. BRANNAN, Grand Island, Nebr. Filed Mar. 16, 1921. Serial No. 452,687. 2 Claims. (Cl. 37—5.)



1. In a machine for the purpose indicated, a frame, a bar carrying a ground engaging implement, a plurality of bars hingedly connected to the frame forwardly of the implement carrying bar and being arcuate and terminating in forwardly extending parts at their rear ends, which are connected rigidly to the implement carrying bar, an elevated support on the frame, a lever operatively mounted upon the support and in turn linked to the implement carrying bar, whereby it may be raised and lowered to assist in regulating one end of the implement carrying bar relatively to the ground, means for holding the lever in different adjusted positions, a foot actuated bar pivoted to the frame forwardly of the implement carrying bar and having a link connection with the other end of the implements in the ground, the construction and arrangement

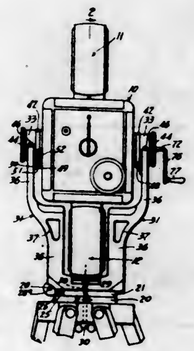
of the rigid connection between the implement carrying bar and the forwardly extending extremities of the arcuate bars being such as to vary the angle of the implements relatively to the ground when said implement carrying bar is raised and lowered.

1,428,320. COMPOSITE STRUCTURE. CHARLES D. BROOKS, Brooklyn, N. Y. Filed Mar. 16, 1920. Serial No. 366,444. 3 Claims. (Cl. 217—4.)



1. In a device of the class described, a structure comprising a plurality of horizontally disposed sections, and a plurality of detachable devices of equal length for tying each abutting pair of sections together, some of said devices being staggered as regards the remainder, one pair of sections entirely enclosing therein tying devices, and one of said pair and an adjacent section forming another pair of sections entirely enclosing therein a staggered series of tying devices.

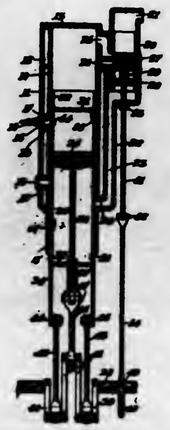
1,428,321. CONSTRUCTION FOR MOTION-PICTURE CAMERAS OR THE LIKE. LLOYD BROWN, Los Angeles, Calif., assignor to Silent Drama Syndicate, a Trusteeship. Lloyd Brown and Alexander Graydon, trustees. Filed Jan. 20, 1920. Serial No. 352,764. 9 Claims. (Cl. 88—17.)



1. In motion picture apparatus, a case containing kinetograph mechanism, an exposure aperture in said case, and means supporting said case on a substantially horizontal axis passing through the case and substantially in line with the exposure aperture.

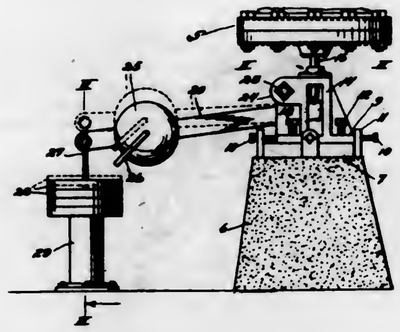
1,428,322. INTERNAL-COMBUSTION MOTOR. EVI W. CHRISTIE, Sewaren, N. J. Filed Jan. 6, 1921. Serial No. 435,348. 10 Claims. (Cl. 123—50.)

1. In an internal combustion motor, a cylinder, a piston operating in the cylinder, a second piston operating in the aforesaid piston, there being an air compression chamber between one end of the piston operating in the cylinder and one side of the said second piston operating in the aforesaid piston, and devices whereby atmospheric air is



admitted to the said air compression chamber and after being compressed by the action of the piston is admitted to a combustion chamber to scavenge the same.

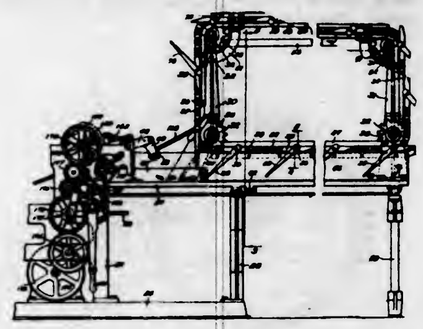
1,428,323. COMPENSATING DEVICE FOR REACTION TUBES. CADET MANLEY COLVIN, Kansas City, Mo., assignor to C & C Developing Company, Kansas City, Mo., a Corporation of Arizona. Filed June 6, 1921. Serial No. 475,518. 15 Claims. (Cl. 204—31.)



1. A supporting structure comprising, in combination with a reaction tube, a movable supporting member adapted to maintain engagement with one end of said tube, and means associated with said member for causing it to exert a compensating supporting pressure upon the tube tending to oppose an increase in the length of the latter.

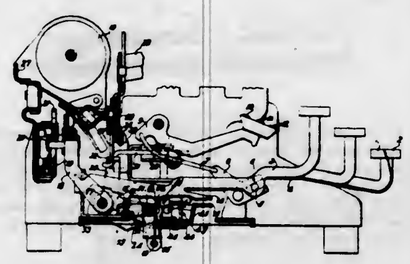
1,428,324. FEEDING MECHANISM. SIMON COOPER, Brooklyn, N. Y., assignor to Speedaumatic Company, a Corporation of Delaware. Filed June 29, 1920. Serial No. 392,759. 26 Claims. (Cl. 271—28.)

1. A machine of the character described comprising means for feeding articles, means for supplying a plurality of articles toward said feeding means, means for transferring forwardly said articles one by one to said



feeding means, and means for properly arranging in piles the supplied articles adjacent to said feeding means to be acted upon by said transferring means.

1,428,325. TYPEWRITING MACHINE. JOSHUA E. DAVIDSON, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed July 6, 1921. Serial No. 482,715. 14 Claims. (Cl. 197—83.)

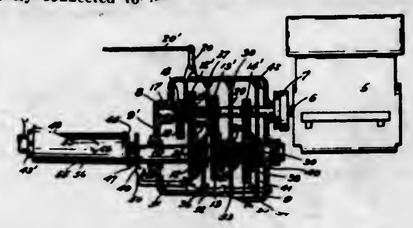


1. In a typewriting machine, the combination with a frame and a traveling carriage, of an escapement mechanism for letter-feeding the carriage, a universal bar for actuating the escapement mechanism, letter-feeding type-keys which actuate the universal bar a silent type-key which depresses said universal bar when operated, and means for holding said bar depressed to prevent actuation of said escapement mechanism, said means comprising a substantially horizontal, pivotally mounted lever, and means carried by said silent type-key for moving one end of said lever forwardly into locking engagement with the universal bar when the silent type-key has been operated to depress the universal bar.

1,428,326. CHANGE-SPEED GEARING. JOSEPH G. FAY, Seattle, Wash., assignor of eight per cent to John K. McDowell and eight per cent to Nemer F. Nahhas, both of Seattle, Wash. Filed Sept. 4, 1920. Serial No. 408,333. 3 Claims. (Cl. 74—59.)

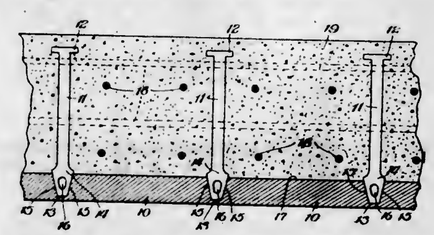
1. The combination of a driving shaft, a driven shaft, a plurality of speed changing gears adapted to successively connect said shafts, a third shaft, a controller having two telescopic members respectively mounted upon the driven and third named shafts, said members

being provided with interfitting elements to afford relative rotary and axial movement thereto, springs operatively connected to [illegible] of the controller members, and



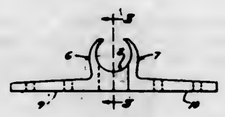
means cooperating with said springs and operatively connected with said gears to thereby regulate the speed of the driven shaft for driving said third shaft.

1,428,327. ANCHORING OR SECURING DEVICE. CHARLES G. GIROLAMI, Chicago, Ill. Filed May 9, 1921. Serial No. 467,966. 4 Claims. (Cl. 72—101.)



1. An anchoring device embodying a rigid body of a spike-like formation, there being an opening adjacent one end thereof and within the confines of the edges, the said end being adapted to be driven into a board or form to a depth that the said opening will extend into the board, the body of the said device being embedded in a concrete structure, the said end of the device with the opening therein protruding beyond the face of the said structure when the board is removed.

1,428,328. BRACKET FOR LUMBER ROLLERS. JOSEPH B. HAWKS, Los Angeles, Calif. Filed Apr. 27, 1920. Serial No. 377,009. 2 Claims. (Cl. 64—10.)

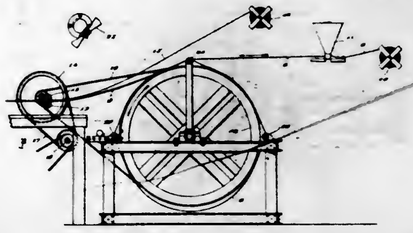


1. A split bracket bearing comprising sections having feet for securing the sections in position and hook like extensions overlapping along a line extending on either side of the axial vertical median plane so that the weight of the shaft will hold the sections in position.

1,428,329. DRYING AND FEEDING MECHANISM FOR PASTED STRIPS. ROBERT A. HENDRICKSON, Indianapolis, Ind., assignor to Indianapolis Saddlery Company, Indianapolis, Ind., a Corporation of Indiana. Filed July 24, 1920. Serial No. 398,666. 8 Claims. (Cl. 91—55.)

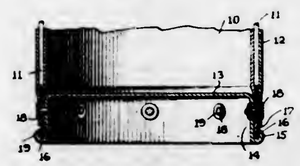
1. In a feeder paster for pasted strips, for combination with a paste-applying device for applying paste to the face of the strip, and a squeezer machine, a rotatable drum around which the strip passes helically after coming from the paste-applying device and from which the

strip passes to the squeezer machine, said drum being connected to said squeezer machine to operate in substantial synchronism therewith with respect to speed of



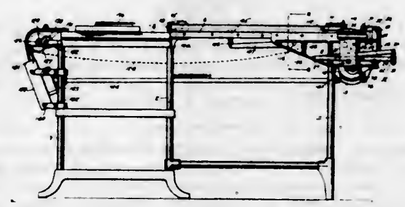
strip travel, and means for lifting the strip from the surface of the drum and moving it endwise of the drum at points in the helix which it forms around the drum.

1,428,330. BAG BOTTOM. HARRY E. INGRAM, Brooklyn, N. Y. Filed Apr. 28, 1921. Serial No. 465,086. 1 Claim. (Cl. 150—1.5.)



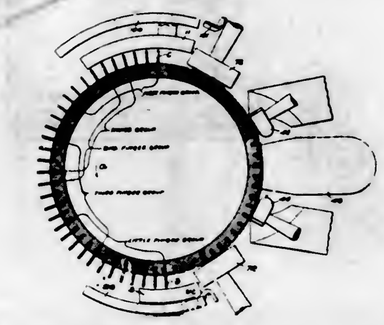
As an improved article of manufacture, a bag having a non-metallic body portion entirely closed on the sides and with longitudinal stay rods spaced apart and extending substantially to the bottom of the bag, a one-piece metallic bottom entering the lower end of the bag body and fitting snugly therein so as to form a raised closure of the lower end, the said bottom having an integral downturned flange forming its sides and its lower edge being turned up to engage the lower edge of the body, a stiffening ring enclosed in the turned up part of the bottom flange and disposed so that the lower edge of the body will come substantially into contact with the ring, and fastening devices extending through the flange of the bottom and through the body and stay rods.

1,428,331. MULTIPLE-WRITING MACHINE. FRANK AMOS JOHNSON, New Haven, Conn., assignor to Signature Company, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1919. Serial No. 327,469. 15 Claims. (Cl. 271—16.)
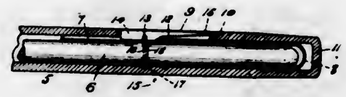


1. In a machine of the character described, the combination with means for supporting a plurality of piles of documents, and means operating on said piles for separating documents therefrom and arranging successive documents of each pile in different positions with respect to said pile.

1,428,332. GLOVE-KNITTING MACHINE. FRANK E. JONES, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Jan. 20, 1920. Serial No. 355,146. 38 Claims. (Cl. 66—24.)



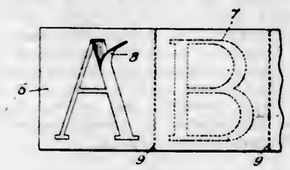
8. A knitting machine having means to effect the knitting of a parallel sided strip of fabric, and picker means to form selvages at opposite edges of said parallel sided strip.

1,428,333. FOUNTAIN PEN. DAVID B. KAUFMANN, Cincinnati, Ohio. Filed Oct. 24, 1921. Serial No. 510,039. 2 Claims. (Cl. 120—46.)



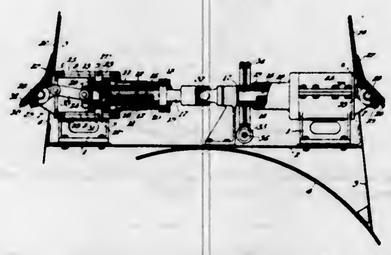
2. In a self-filling fountain-pen, a compression-lever and a hinging detent-ring for said compression-lever, the said detent-ring being composed of a single spiral or coil having extended overlapping opposite ends that are duly spaced from each other so that the spiral is less than a double coil but more than a single coil, substantially as herein shown and described.

1,428,334. METHOD OF MAKING SIGNS. ALEXANDER M. KNAUBER, Oak Park, Ill., assignor to Chicago Electric Sign Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 28, 1919. Serial No. 320,398. 2 Claims. (Cl. 41—21.)



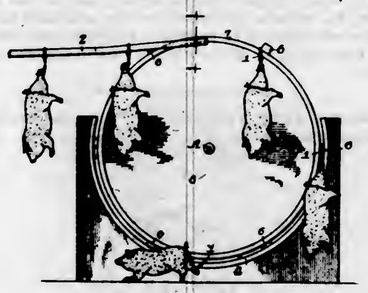
1. The method of making sign characters which comprises cementing a relatively opaque sheet of easily cut material to a strip of glass, arranging a series of master characters on the opaque sheet in proper spaced relation, cutting the opaque sheet in conformity with the master characters thereon, removing the portions of the opaque sheets segregated by the cuts, cutting narrow segregating strips in the opaque sheet between the characters, removing the strips of opaque material to uncover the glass, and separating the characters by cutting the glass in the uncovered strips.

1,428,335. HYDROPLANE-OPERATING MECHANISM FOR SUBMARINE BOATS. JOHANNES F. W. KOLVIG, Bridgeport, Conn., assignor to The Lake Torpedo Boat Company, Bridgeport, Conn., a Corporation of Maine. Filed Jan. 12, 1922. Serial No. 528,691. 25 Claims. (Cl. 114—16.)



1. In a submarine boat, folding and tilting hydroplanes, and operating mechanism therefor, including a main member mounted to receive a reciprocating movement when extending or folding the hydroplanes, and a combined longitudinal and rotary movement when reaching the limit of its outward travel.

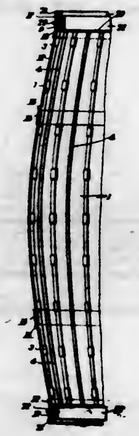
1,428,336. HOG HOIST. LOUIS A. KRAMER, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,360. 9 Claims. (Cl. 17—30.)



1. For use with a hook attached to a hog, a hoisting member rotating in a substantially vertical plane, an elevated rail in front of the hoisting member and extending beyond the edge thereof, and a guide below the elevated rail and extending substantially concentric with the axis of the rotating hoisting member; the rotating hoisting member having a peripheral portion fast thereon and adapted to engage the said hook while the latter is hooked on the guide and to lift the hook off the guide and over the tip of the elevated rail.

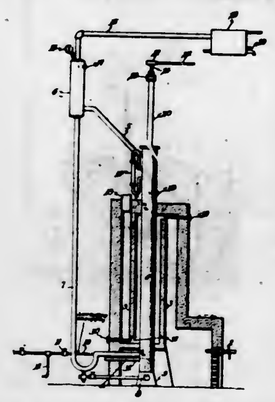
1,428,337. SHEET-METAL BARREL. JAMES W. MCNEIL, Newark, N. J. Filed Nov. 18, 1920. Serial No. 424,922. 7 Claims. (Cl. 220—60.)

1. A barrel comprising a plurality of sheet metal staves each provided with a pair of inwardly extending flanges along the side edges thereof and a plurality of locking members of channel form each of which embraces the abutting flanges on two adjacent staves, each of said locking members being provided with a plurality of openings spaced apart longitudinally of the member and the flanges



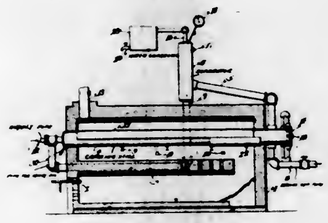
on the staves being provided with lugs extending through said openings and bent laterally.

1,428,338. APPARATUS FOR CRACKING HYDROCARBON OILS. FREDERICK T. MANLEY, Houston, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Texas. Filed Oct. 10, 1917. Serial No. 195,774. 9 Claims. (Cl. 196—25.)



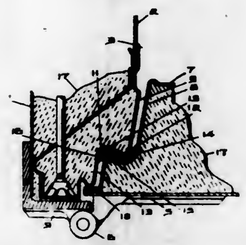
9. Apparatus for cracking hydrocarbon oils comprising a cracking still maintained under pressure, means for heating the still intermediate its ends to a cracking temperature, a pipe for supplying a stream of charging oil under pressure into the lower end of the still, means for receiving the evolved vapors and separating out the heavier constituents thereof, a return pipe directly connecting the separating means and said supply pipe for returning the condensate to the bottom of the still, and means for positively forcing the condensate into the charging oil traversing said supply pipe.

1,428,339. METHOD OF CRACKING HYDROCARBON OILS. FREDERICK T. MANLEY, Houston, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Texas. Filed Oct. 10, 1917. Serial No. 195,777. 11 Claims. (Cl. 196—25.)



1. The continuous process of cracking hydrocarbon oils of comparatively low boiling points which consists in bringing said oils in contact with a horizontally elongated body of higher boiling point hydrocarbon oil maintained at a temperature sufficient to cause vaporization and decomposition of said lower boiling oil, causing the vapors generated to pass along in contact with the elongated surface of said heated higher boiling point oil and preventing overheating of said vapors during said passage to maintain a substantially uniform temperature of sufficient intensity to continue the cracking of the vapors.

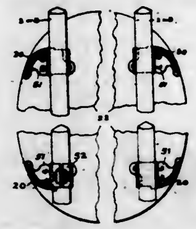
1,428,340. FIRE-RESISTING STRUCTURE. CHARLES F. MEILINK, Toledo, Ohio. Filed July 19, 1920. Serial No. 397,274. 6 Claims. (Cl. 109—2.)



1. A double walled housing provided with an opening, a rigid non-absorbent wall closure for the opening providing a joint, and a filler for the housing carrying moisture, releasable by heating for vapor escape into said joint, said housing having vent means from between the double walls into the joint for the passage of the vapor in its escape into the joint.

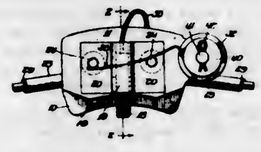
1,428,341. AIRPLANE FUSELAGE. MELVILLE W. MIX, Mishawaka, Ind. Filed Mar. 28, 1918. Serial No. 225,237. 9 Claims. (Cl. 244—30.)

1. In airplane structures, a composite fuselage comprising continuous longerons that approximate a quarter circle in cross section, stem and stern members to which the longerons are attached, suitable distancing members placed between the end members in any desired relation so as to



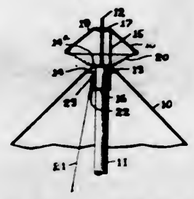
form a skeletonized interior, and a covering for the whole supported by the interior skeleton.

1,428,342. BRUSH MOUNTING. JOHN D. NIES, St. Charles, Ill., assignor to Kimble Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 27, 1921. Serial No. 464,844. 27 Claims. (Cl. 171—324.)



2. In a brush mounting, a supporting block, a brush, and a brush regulator bearing directly on one end of the brush, the surfaces of contact between said block and regulator being shaped to permit of selective engagement of one with the other in a number of distinct angular positions.

1,428,343. TENT VENTILATOR. WILLIAM THACKERAY RUNCIE, Maplewood, N. J. Filed Sept. 1, 1921. Serial No. 497,468. 3 Claims. (Cl. 135—14.)

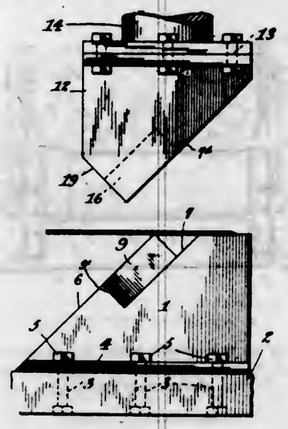


1. A tent ventilator comprising a tent having an opening in the top, a pole for the tent having a reduced extension extending upward through the opening, a bracket having one end sliding on the body of the pole and the other end sliding on the reduced extension, a cap connected with the bracket and arranged above the tent top and shaped to fit over the opening in said top, flexible connections between the lower edge of the top and a fixed part of the structure to prevent the rotation and distortion of said cap, and means for raising and lowering the bracket and cap.

1,428,344. PUNCH AND DIE FOR ANGLE SMITH WORK. DANIEL SCOULER, Maisonneuve, Quebec, Canada. Filed Feb. 27, 1920. Serial No. 361,710. 10 Claims. (Cl. 153—21.)

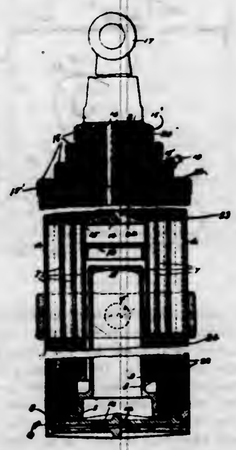
1. A pair of dies comprising a male and a female die member, the face of one of said members being uniplanar

and inclined and having a projection thereon, the face of the other die being inclined to coact with the first named



face and having a recess formed therein for receiving the projection.

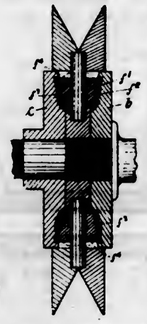
1,428,345. MECHANISM FOR COUNTERBALANCING PIVOTALLY-MOUNTED BODIES. EDWARD K. STANDISH, Stoughton, Mass. Filed May 22, 1920. Serial No. 383,588. 14 Claims. (Cl. 89—37.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



2. The combination of an oscillatable gun and means for aiding oscillatory movement thereof comprising an outer compressed air cylinder, telescoping compressed air cylinders nested within said outer cylinder and movable relative to each other and to said outer cylinder, and annular flanges on the inner ends of the cylinders, said flanges provided with apertures to permit the passage of pressure fluid therethrough.

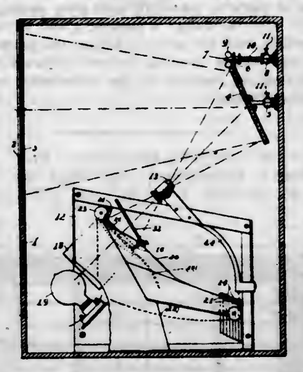
1,428,346. CHANGE-SPEED AND CLUTCHING MECHANISM. CHARLES HENRY STRONG, London, England. Filed Oct. 31, 1919. Serial No. 334,801. 4 Claims. (Cl. 74—34.)

1. Change speed and clutching mechanism of the type in which differential gearing is emp'oyed, comprising in combination a driving shaft having fixed thereto a disc formed with an annular friction surface, a rotatable disc on said shaft also having an annular friction surface corresponding to the fixed disc, one half of a friction clutch fixed to said rotatable disc, a second half of a friction



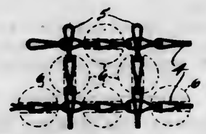
clutch slidable but non-rotatable on said shaft, and a driven member formed of a series of members pivoted together having friction surfaces to form a chain belt and adapted to engage the friction surfaces of both the fixed disc and the rotatable disc, for the purposes set forth.

1,428,347. PICTURE-SLIDE-PROJECTION APPARATUS. EDWARD VAN ALTENA, New York, N. Y. Filed Aug. 26, 1919. Serial No. 320,062. 13 Claims. (Cl. 88—28.)



13. In a projection apparatus, a pivotally mounted shelf for supporting a slide in display position, guides for conducting slides away from display point, said shelf being adapted to straddle said guides.

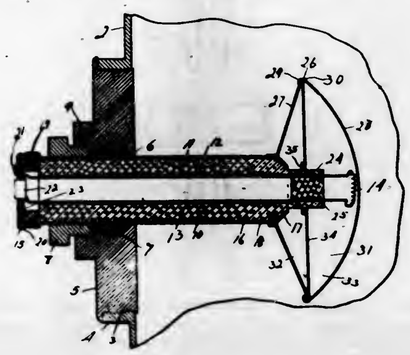
1,428,348. ART OF STRINGING PEARLS AND THE LIKE. DAVID WEISS, New York, N. Y. Filed Mar. 16, 1921. Serial No. 452,735. 1 Claim. (Cl. 63—26.)



A plurality of chain members arranged in parallelism, each chain being made up of a plurality of normally inseparably connected elongated links, certain of said elongated links having a portion thereof wider than the adjacent elongated links, to provide stops, cross chains

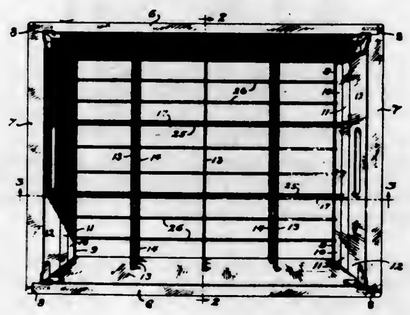
passing through the links having the wide portions, and pearls carried by the links of the chain members which connect the links having the wide portion.

1,428,349. HEATING DEVICE. MARTIN J. WHELAN, Clifton Heights, Pa. Filed Feb. 17, 1922. Serial No. 537,215. 8 Claims. (Cl. 219—19.)



1. In a heating device the combination of a container having an access opening leading to the interior thereof, an interiorally threaded flange surrounding said opening, a plug having a bore therethrough of two different diameters, the larger diameter forming a chamber for the reception of packing material, said plug having threaded connection with the flange, a packing gland having threaded connection with the plug to set up the packing within the chamber, and a heating element connected with the plug and held in position by the compressed packing in the packing chamber.

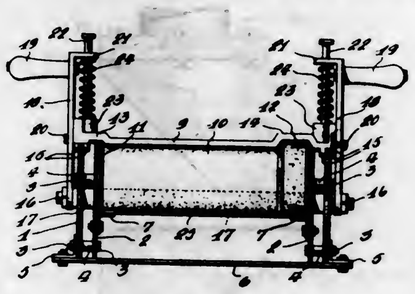
1,428,350. BOTTLE-RETAINING BOX. MICHAEL ZIMMERMAN, Philadelphia, Pa. Filed Oct. 20, 1921. Serial No. 509,126. 8 Claims. (Cl. 217—20.)



1. A bottle crate having opposite walls with grooves having cavities extending into the walls, and rods provided with hooks seated in the grooves and cavities.

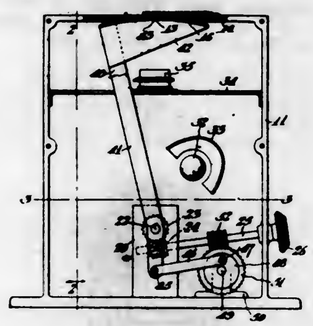
1,428,351. MACHINE FOR MAKING CEMENT ROOFING TILE. JESSE WILSON ALEXANDER, Birmingham, Ala. Filed Aug. 4, 1921. Serial No. 489,749. 8 Claims. (Cl. 25—43.)

1. A cement tile mould comprising a frame including track means, a palette board carried by said frame, carrier means movable transversely of the palette board, and a cement gauging and smoothing strip carried by said carrier and resting upon said track means and extending



longitudinally of the palette board in spaced relation to the same and movable towards and away from the palette board while moving transversely thereof.

1,428,352. FILM-NUMBERING MACHINE. JOSEPH ALTSCHULER, Los Angeles, Calif., assignor to Keyograph Corporation, a Corporation of Delaware. Filed Apr. 28, 1917. Serial No. 165,211. 2 Claims. (Cl. 95—1.1.)

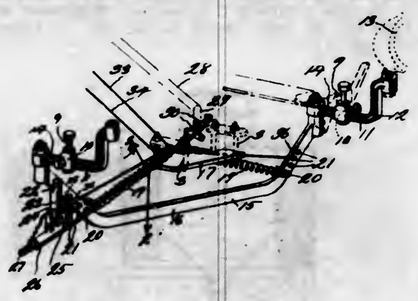


1. In a film numbering machine; a counter so arranged that it will display successive numbers; counter driving mechanism, means controlled by the length of the film passing through the machine for changing said numbers; a lamp so arranged as to illuminate the numbers of said counter; a lens system arranged to focus the image of said numbers on the edge of the film; and a shutter arranged to expose said film to said image during one of the stationary periods of said film.

1,428,353. DIRIGIBLE AUTO HEADLIGHT. CHRISTIAN FERDINAND ANDERSEN and JOHN RUSSELL MITCHELL, Jacksonville, Ill. Filed Nov. 25, 1921. Serial No. 517,641. 1 Claim. (Cl. 240—61.)

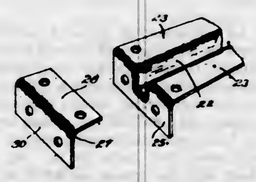
The combination with dirigible headlights carried by a motor vehicle, said headlights being mounted on a horizontally disposed pivoted bracket, a connecting rod connecting together said brackets whereby they will simultaneously move, springs having their inner ends anchored and their outer ends connected to the connecting rod, a sleeve pivotally connected to one end of the connecting rod, a rearwardly and inwardly extending rod disposed

in said sleeve, pins extending through said rod adjacent the ends of the sleeve and allowing loss play between



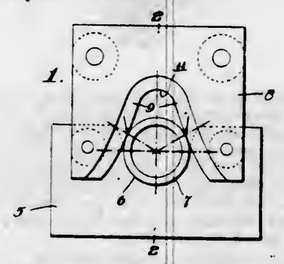
the rod and sleeve, the rear end of said rod being connected to the steering wheel mechanism.

1,428,354. CARLINE CONSTRUCTION. JOHN W. BERNBAUM, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Illinois. Filed June 1, 1920. Serial No. 385,459. 3 Claims. (Cl. 108—5.6.)



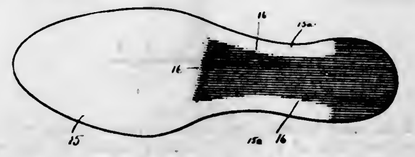
2. In a carline construction, the combination with the side plates of a car roof frame; of a carline embodying a single steel bar formed with a depending web of channel section, with lateral flanges bent outwardly from the top of the side members of said web, and with downturned flanges at the opposite ends of the carline; reinforcing members having portions overlying the end portions of the lateral flanges and engaging the outer faces of the down-turned flanges; and means for securing the down-turned flanges and the reinforcing members to the side plates; substantially as specified.

1,428,355. METHOD AND MEANS FOR TUBE CUTTING. ROSS EDWARD BRADLEY, Roland Park, Md. Filed July 8, 1920. Serial No. 394,641. 5 Claims. (Cl. 164—47.)



1. The method of cutting metal tubes which consists in supporting half of the tube circumference adjacent the plane of cut, and applying initial cutting pressure at separated points on the tube circumference near the plane of its horizontal diameter so as to secure a distributed cutting action resulting from component vertical and horizontal cutting actions, sufficiently balanced as not unduly to distort the circular cross-section of the tube.

1,428,356. VULCANIZED SOLE. MAX BROWN, Brookline, Mass. Filed Nov. 18, 1916, Serial No. 132,048. Renewed Feb. 7, 1922. Serial No. 534,813. 7 Claims. (Cl. 36—32.)



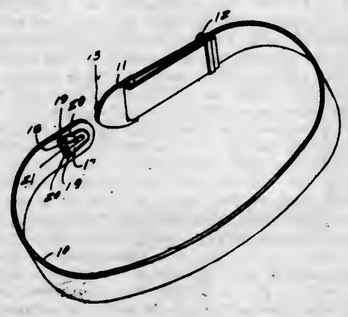
1. A sole for boots and shoes, composed of a single piece of material relatively compressible and soft at its forward portion and having a central shank portion relatively hard and stiff to constitute a shank reinforce.

1,428,357. PLIER JOINT CONSTRUCTION. FREDERICK H. BULLARD, Springfield, Mass. Filed Apr. 27, 1921. Serial No. 464,825. 2 Claims. (Cl. 294—43.)



1. A joint for pliers, comprising an integral bearing part on one of the plier members, the other member having an opening therethrough of different diameters, a rivet device fixedly secured to the integral bearing part of one of the members and formed with an integral enlarged part which enters that portion of said opening which is of the larger diameter, and said integral bearing part of the plier member entering the remaining part of said opening, the opposite ends of the rivet device being flush with the outer faces of the pliers and the end of the integral bearing part engaging the inner surface of the enlarged part of the rivet device, whereby the bearing surfaces are confined to the different diameters in said opening.

1,428,358. FASTENER. WALTER J. BURBERY, Los Angeles, Calif. Filed Sept. 20, 1919. Serial No. 325,055. 1 Claim. (Cl. 24—222.)



A separable fastener having a plate provided with a flange at one end and the side edges and turned over the plate leaving a slot and a recess to which the slot leads, a second plate, a shank extending from the second plate

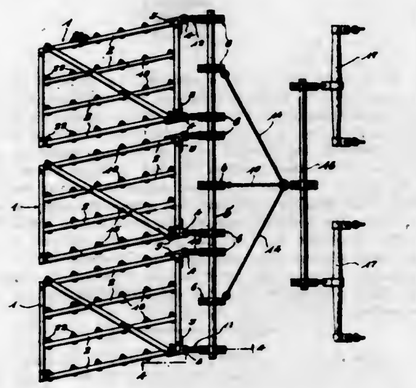
to enter said slot, a head on the shank for disposition in the recess, the walls of said slot at the entrance thereof being flared to facilitate application of the shank, and the sides of said first section converging toward the closed end thereof.

1,428,359. SAND MOLD AND APPARATUS FOR MAKING IT. ARNOLD CHRISTIANSON, Detroit, Mich. Filed Jan. 4, 1921. Serial No. 434,913. 3 Claims. (Cl. 22—157.)



2. In sand molding apparatus the combination with a cope and drag of a pair of parting boards for forming the adjacent faces of mold sections in the cope and drag, said boards being provided with indentations and projections for forming registering and interlocking indentations and projections in the adjacent faces of the mold sections, the boards being adapted to nest with each other when the same are abutted face to face, the faces of the parting boards which are adjacent when so assembled forming the parting faces of the mold cope and drag.

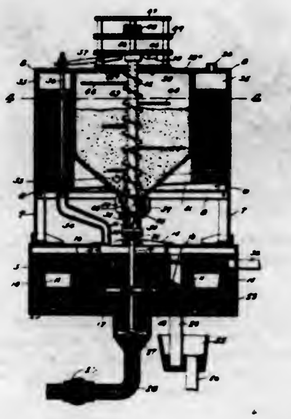
1,428,360. HARROW. DAVID M. CLEVENGER, Reeds, Mo. Filed Oct. 12, 1920. Serial No. 416,421. 2 Claims. (Cl. 55—84.)



1. In a harrow, the combination of a plurality of frames, all inclined in the same direction and including blade carrying bars; of angle members including eyes secured to the opposite forward corners of said frames, an evener bar, clamps carried thereby, flexible members connected to said clamps and the aforesaid eyes, and diverging draft connectors attached to said clamps.

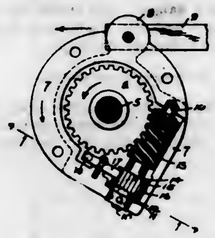
2. In a harrow, the combination with a plurality of blade carrying frames; of attaching members secured to the opposite forward corners thereof; a relatively long cylindrical bar spaced from and extending transversely across the front of the frames; a plurality of clamps on said bar, each clamp being made up of two plates placed together and bent between their ends to form channels receiving said bar, and relatively long oppositely extending attaching ears on opposite sides of the channels, said ears being provided with a plurality of apertures, and retaining bolts passing through the apertures adjacent said bar; flexible connectors including clevises connected with said other apertures and connected to the aforesaid attaching members; and draft connecting means including members connected with some of the apertures of the clamps.

1,428,361. REFRIGERATING APPARATUS. WALLACE DAY and JOHN WALTER DAY, Maplewood, Mo., assignors of one-third to Milfred L. Greenstreet, Maplewood, Mo. Filed Feb. 23, 1921. Serial No. 447,125. 11 Claims. (Cl. 62—2.)



7. A tank for refrigerating systems comprising receptacles immersed in a refrigerant in said tank, containers in said receptacle, thermostatically controlled means for separately discharging a liquid and a chemical into said tank to form the refrigerant, means for mixing the refrigerant in said tank, said mixing means being operable in connection with said discharging means, a coil connected to said tank, vent cocks in the top and bottom stretches of said coil, and means operating in conjunction with said mixing means for forcing the refrigerant from said tank into said coil.

1,428,362. SHINGLE MACHINE SPUR ROLL RATCHET. AUGUST G. DEHLIN, Olympia, Wash., assignor of one-third to Ellin Nelson, Olympia, Wash. Filed Apr. 8, 1922. Serial No. 550,754. 5 Claims. (Cl. 74—53.)



1. In apparatus of the class described, a spur roll; an actuated casing loosely mounted on said spur roll; a worm wheel fixed to said spur roll and within said casing; a worm mounted in said casing and in constant engagement with said worm wheel; and means permitting said worm to freely turn in the casing in one direction but preventing it from turning in the opposite direction, whereby the worm wheel is locked in the casing and the spur roll is turned by the casing.

1,428,363. INDICATING INSTRUMENT. WILLIAM D. DREISKE, Oak Park, Ill. Filed Nov. 11, 1918. Serial No. 262,064. 18 Claims. (Cl. 73—31.)

1. In an instrument of the class described, adapted to be controlled by instrumentalities which are subject

to varying conditions, the combination of a plurality of indicators having adjacent fixed paths of travel, so that the relative positions of the indicators are always apparent, means to provide a series of movable lines between



said paths of travel forming indicating positions along each fixed path and converging in one direction toward a common point, so that said lines have a constantly different angle from the first to the last.

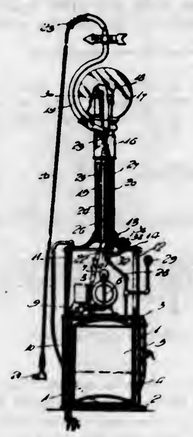
1,428,364. CREAM SEPARATOR. CARTER M. DYE, Christopher, Ill. Filed Aug. 20, 1921. Serial No. 494,827. 1 Claim. (Cl. 31—85.)



A device for separating cream from milk comprising a cylindrical container normally open at both ends, closures therefor, gaskets adapted to fit between the container and the closures, one closure containing a faucet, a cap and gasket adapted to be secured over the last mentioned closure whereby the container is rendered leak proof.

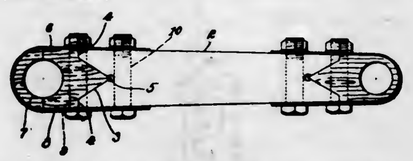
1,428,365. MOTOR-DRIVEN AUTOMATIC PRESSURE COIN-CONTROLLED AIR STATION. ARNO ARTHUR EWALD, Oakfield, Wis. Filed Mar. 7, 1921. Serial No. 450,286. 17 Claims. (Cl. 299—80.)

1. An air supply station comprising a movable member carrying an inflation hose, a self-closing valve for normally preventing passage of air through said hose, coin-controlled means for opening said valve, a latch cooperable with the valve for holding said valve open, and



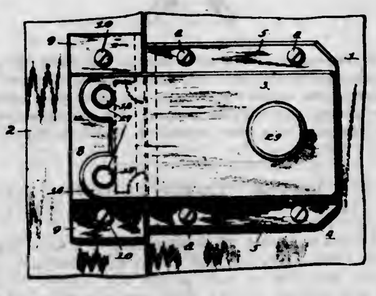
means for automatically releasing said latch when said hose carrying member returns to its initial position after use of the hose.

1,428,366. CRANK ARM. CHARLES H. FISH, Rye, N. H. Filed Apr. 7, 1921. Serial No. 459,340. 9 Claims. (Cl. 287—93.)



9. A device of the character described comprising, in combination, a crank arm, a self-lubricating bearing block having interlocking connection with one end of said arm, a strap fitting around the outer end of said block, and means for securing the end portions of said strap to said arm.

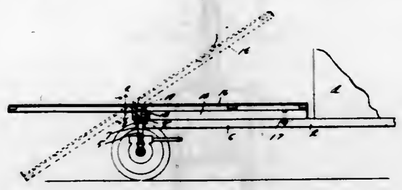
1,428,367. JIMMY-PROOF LOCK. MORRIS FORLANDER, New York, N. Y. Filed Mar. 7, 1921. Serial No. 450,206. 2 Claims. (Cl. 70—14.)



2. The combination with a lock casing having a dovetailed lug projecting from its free end, of an extension plate on the front of said casing overlying said lug and projecting beyond the same, a keeper having a recess to be engaged by said lug when the lock casing is closed

upon the keeper, a bolt mounted in the casing to be projected into the keeper, there being openings in the portion of the extension plate which projects beyond the dove-tailed lug, and studs projecting from the keeper to engage said openings for the purpose specified.

1,428,368. AUTO DUMP BODY. HOMER G. FRAZIER, Lafayette, Ind. Filed June 22, 1920, Serial No. 390,833. Renewed Mar. 8, 1922. Serial No. 542,170. 3 Claims. (Cl. 298—17.)



1. The combination with a vehicle frame, of a dump body therefor, said dump body comprising a body portion having downwardly extending blocks, said blocks being disposed on plates hingedly connected to plates carried by the frame and overlapped flanges carried by said plates and the hinged plates.

1,428,369. BOATSWAIN'S SEAT. PASQUALE GIANNONE, Philadelphia, Pa. Filed Oct. 2, 1920. Serial No. 414,194. 3 Claims. (Cl. 227—8.)



1. A suspension device for workmen comprising a pair of supporting straps, stirrups carried thereby, means for suspending the supporting straps, a hinged band carried by the straps and adapted to pass around the waist of the workman, and a seat depending from the band.

1,428,370. LADDER. CHARLES D. HARMON, Jacksonville, Ill. Filed Sept. 9, 1920. Serial No. 409,211. 1 Claim. (Cl. 228—23.)

In a portable ladder, the combination of a main ladder section, a base plate provided with a slot running in longitudinal direction of said section and secured to the upper end thereof, a head plate integral with and extending from the upper end of said base plate and secured over the upper end of said ladder section, there being registering recesses in the upper end of said ladder section and in the head and base plates, a second ladder section, a trough shaped bracket rigidly secured to and embracing the end and three sides of said second ladder section, a stud secured in said bracket and provided with an elongated head adapted normally to have sliding engagement under said base plate with the shank of the stud running in said slot, interengaging means on the ends of the ladder sections for preventing separation



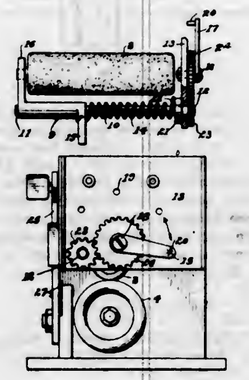
of the same in the normal operating position and comprising a toe on said bracket and a hook on said head plate, and a lug on said second section adapted to seat in said registering recesses in the extended position of the ladder sections, the narrow width of said stud head being slightly less than the width of said slot, whereby said head is adapted to slip through said slot when the ladder sections are in assembling position.

1,428,371. RATCHET WRENCH. JAMES L. HICKEY, Crane, and JOHN KRACHT, Milwaukee, Wis. Filed Apr. 24, 1920. Serial No. 376,255. 1 Claim. (Cl. 81—59.)



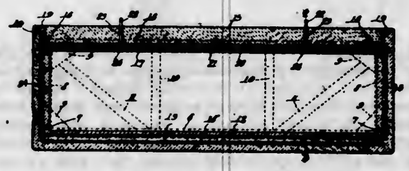
A wrench having a bifurcated shank, a pivotal head mounted in the bifurcation of said shank and provided with a nut seat, the head at the inner end being of arcuate shape and provided with ratchet teeth concentrically disposed with reference to the pivot of the head, a pawl disposed in said bifurcation below the head, a pivot pin spanning the bifurcation and pivotally supporting the pawl, the said pivot being disposed to one side of the axis of the shank, a leaf spring supported in the bifurcation and having a free end bearing against the pawl, the spring being supported on a pin spanning the bifurcation, a bearing pin disposed against the spring to maintain the latter in contact with the pawl, and an operating pin connected with the pawl and disposed transversely with relation to the shank and having its free end exteriorly exposed for the manual operation of the pawl in opposition to the pressure of the spring.

1,428,372. SPRING-REGULATING DEVICE FOR PRESSER ROLLERS. GREENE C. HOSCH, St. Louis, Mo., and ARCHIBALD C. OWEN, New York, N. Y., assignors to The Measuregraph Company, St. Louis, Mo., a Corporation. Filed June 24, 1920. Serial No. 391,353. 8 Claims. (Cl. 33—130.)



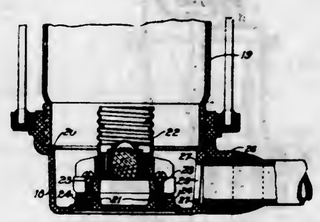
1. In a machine of the kind described, having a measuring roller, the combination of a main frame, a presser roller to co-operate with the measuring roller, a presser roller frame carrying the presser roller and movably supported in the main frame to enable the presser roller to move toward or from the measuring roller, a spring to actuate the presser roller frame, an adjusting member connected with the spring and mounted on the main frame, and means for holding the same fixed in different positions to regulate the tension of the spring.

1,428,373. BURIAL VAULT. CLARENCE HOWARD, Hutchinson, Kans. Filed June 7, 1921. Serial No. 475,815. 1 Claim. (Cl. 72—7.)



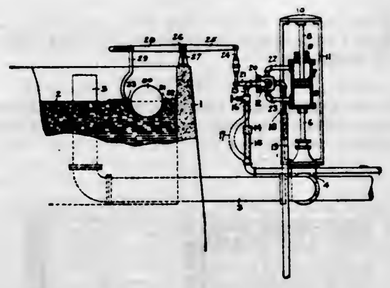
A vault comprising a rectangular frame including upper and lower pairs of angle irons, braces connecting the angle irons, a reticulated sheet surrounding the frame, a plastic body surrounding the reticulated sheet; a cover including a rectangular frame, a sheet of reticulated material stretched across the frame, a plastic body in which the last mentioned reticulated sheet is embedded, the frame resting in the upper angle irons, and a plastic bond securing the cover to the edges of the first mentioned body.

1,428,374. CORROSION-RESISTANT CONDUIT FITTING. ERNEST L. HUFF, Natrona, Pa. Filed Feb. 25, 1919. Serial No. 279,143. 12 Claims. (Cl. 247—15.)



1. An electrical conduit fitting constituted largely of lead alloy having materially greater hardness than pure lead.

1,428,375. CONTROLLING DEVICE. CHARLES A. HUMPHREYS, Bluefield, W. Va. Filed July 5, 1918. Serial No. 243,335. 3 Claims. (Cl. 137—68.)

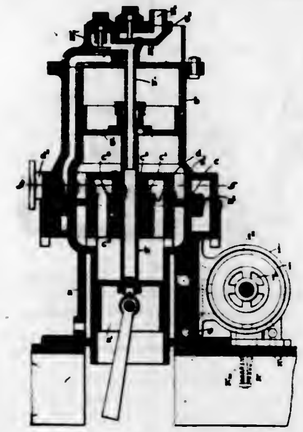


1. In a control device, the combination with apparatus to be controlled, of a movable cylinder, a stationary piston mounted in said cylinder, means for controlling the condition of the mechanism to be controlled, a connection between said cylinder and said controlling means, a movable member mounted in said mechanism to be controlled, a controlling valve for said cylinder and connections between said last movable member and said controlling valve whereby the movements of said cylinder may be controlled.

1,428,376. INTERNAL-COMBUSTION ENGINE. WILLIAM FISHER, North Tawton, England. Filed Apr. 8, 1922. Serial No. 550,729. 2 Claims. (Cl. 60—15.)

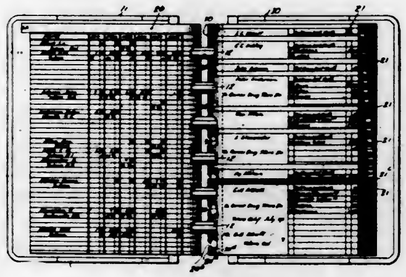
1. The combination in an internal combustion engine, of high pressure cylinder, a low pressure and compression cylinder in coaxial relation to each other, a piston head for each cylinder, a common piston rod connected to each of the piston heads, a structure between the cylinders constituting a part of adjacent and connected heads of the cylinders, said structure also having inlet and outlet passages, a series of circumferential ports arranged to communicate with both cylinders, an air inlet passage which communicates with ports between the piston rod and the circumferential ports, a disk valve rotatably mounted in the structure and having four ports therethrough, two of said ports being positioned to aline with the ports with which the air inlet communicates, the other two ports of the disk being alined to one side both diametrically and circumferentially of the first mentioned ports and adapted to successively register with the circumferential ports, the parts being organized and actu-

ated so that during a semi-rotation of the disk valve the high pressure cylinder operates as a four cycle engine and



the lower pressure cylinder as a two stroke engine, and during the other half of the rotation of the disk valve as an air compressor.

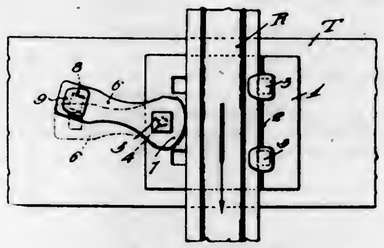
1,428,377. LOOSE-LEAF LEDGER. CHARLES M. JEWELL, Tulare, Calif. Filed Aug. 16, 1920. Serial No. 403,693. 3 Claims. (Cl. 129—1.)



1. In a device of the character described, the combination of a suitable back-board and a plurality of sheet-holding posts in spaced relation thereon, a general entry sheet used for and adapted to receive monthly balances of a number of customers, and a plurality of current month entry sheets, smaller in size than the general entry sheets and adapted each to receive a current monthly account of an individual customer; such current month entry sheets being mounted upon said posts in overlapping relation to each other and each of said sheets engaging at least two of said posts; each current monthly entry sheet being composed of two leaves, one superimposed upon the other, and the lower leaf having its upper edge projecting beyond the upper edge of the upper leaf.

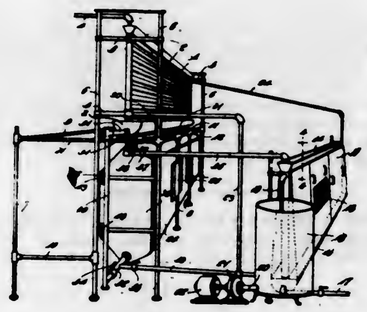
2. In a loose leaf book, the combination of a binding post whose cross section is substantially two trapezoids placed face to face, and a sheet having an aperture therein spaced from its edge and an opening leading from its edge to the aperture, said opening being wider at the edge of the sheet than where it communicates with the aperture, and said aperture being substantially similar in form to the cross section of the post.

1,428,378. RAIL TIE PLATE. JOHN J. HESS, Seattle, and NELS JOHNSON, Spokane, Wash. Filed May 4, 1922. Serial No. 558,352. 1 Claim. (Cl. 235—304.)



A device of the class described comprising a tie plate formed with a screw threaded opening on one side of the base flange of a rail, a bolt threaded into said opening, a locking lever pivotally connected to said plate by said bolt, said locking lever being formed at its pivoted end with a cam head designed to frictionally grip the adjacent edge of the base flange of the rail, said lever being formed at its opposite end with an opening, said opening being designed to permit passage therethrough of a retaining spike or the like to maintain the lever in various set positions.

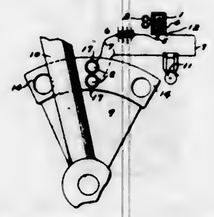
1,428,379. PASTEURIZER. YOSHIO KOKUSHO, Philadelphia, Pa. Filed Oct. 14, 1920. Serial No. 416,791. 3 Claims. (Cl. 204—24.)



1. In a pasteuriser, a milk heater comprising separable side sections having their edge portions in contacting relation, wall members of insulating material carried by the side sections and having extensions extending in overlapping and spaced relation to provide a milk channel having an inlet at one end and an outlet at its opposite end, and electrodes extending through the insulating wall member, milk in the channel bridging the space between the electrodes and completing a circuit to heat the milk.

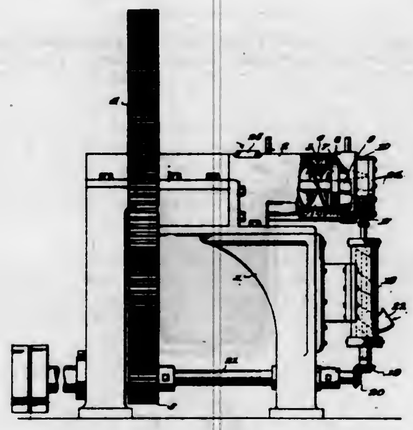
1,428,380. BRAKE-LEVER CIRCUIT CLOSER FOR AUTOMOBILE THEFT SIGNALS. DANA S. LEE, St. Louis, Mo. Filed Nov. 7, 1919. Serial No. 336,334. 1 Claim. (Cl. 200—59.)

An improved brake-lever circuit-closer for automobile theft signals, comprising a sector-plate; insulating-tubes embedded in said sector-plate and arranged one above the other; movable contacts carried by said sector-plate in said tubes; a head or flange upon the outer portion of said contacts to prevent said contacts from being pushed too far within said tubes; a shoulder or flange on the inner portion of said contacts to limit the outward move-



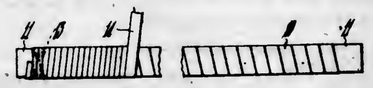
ment of the said contacts; springs in said tubes for transmitting current to said contacts, and urging the latter outwardly; and a brake-lever adapted to contact with the said contacts in said sector-plate simultaneously, substantially as described.

1,428,381. TUBING MACHINE. MELVIN S. LOWER, Ashland, Ohio, assignor to The Faultless Rubber Company, Ashland, Ohio, a Corporation of Ohio. Filed Nov. 3, 1921. Serial No. 512,697. 5 Claims. (Cl. 18—12.)



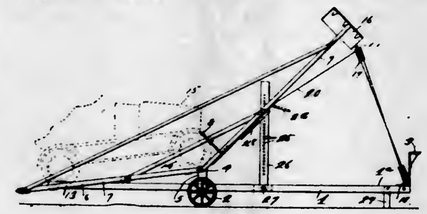
1. A mechanism for forming striped plastic tubing, comprising a main tubing machine embodying a discharge head, a separate expressing machine fixed to said head and discharging into an annular chamber in said head, and a plurality of ports leading from said chamber and discharging annularly into the discharge orifice of said main tubing machine, whereby material fed by said separate expressing machine will be deposited in stripes upon the material as its being formed and expressed from said main tubing machine.

1,428,382. INNER TUBE AND METHOD OF MAKING THE SAME. MELVON A. MARQUETTE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Sept. 19, 1919. Serial No. 324,846. 3 Claims. (Cl. 18—56.)



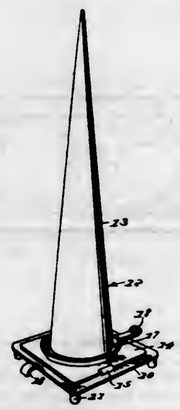
1. A rubber tube composed of a helical strip of rubber arranged with its successive helices forming lapped joints, said joints being pressed to substantially the same thickness as the body of the tube.

1,428,383. AUTOMOBILE HOIST. THOMAS A. MARTIN, Washington, D. C. Filed Sept. 21, 1921. Serial No. 502,187. 2 Claims. (Cl. 214—1.)



1. An automobile transporting and tilting device comprising a wheel supported diamond shaped frame, a tiltable frame pivoted to the wheel supported frame, said tiltable frame being provided with a weight receptacle adjacent one of its ends, a block and fall connected to the tiltable frame at its weight end and to the wheel supported frame, a rotatable drum carried by the tiltable frame and around which drum the lead of the block and fall extends, and a detent carried by the tiltable frame and cooperating with an apertured pivoted bar extending upwardly from the wheel supported frame between guides in the tiltable frame and forming means for holding the tiltable frame in any position to which it may have been tilted.

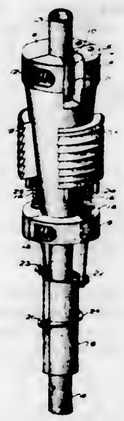
1,428,384. FLYCATCHER. MARTIN MAXIAN, Johnstown, Pa. Filed Aug. 2, 1921. Serial No. 489,238. 1 Claim. (Cl. 43—114.)



A fly catcher comprising a holder provided with legs to space the same from a supporting surface and formed on

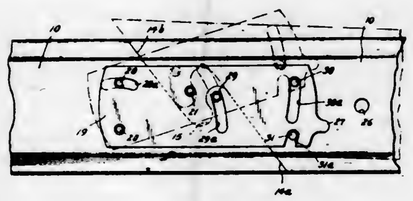
its upper face with oppositely disposed clips, said holder having a handle, and a replaceable unit having an adhesively coated surface and provided with a base for engagement with the clips on the holder, the said replaceable unit being formed with a drip cup adjacent the base and with a finger hold for withdrawing and inserting the base in engagement with the clips.

1,428,385. TUBING CATCHER. WILLIAM MEREDITH, Huntington Beach, and WALTER L. FOSTER, Whittier, Calif. Filed Dec. 17, 1921. Serial No. 523,197. 5 Claims. (Cl. 103—65.)



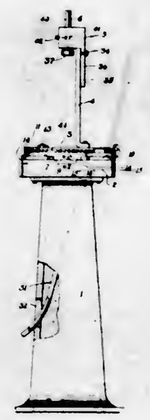
1. A tubing catcher comprising a split body arranged to be clamped about the tubing, and slips slidably mounted on said body so as to be expanded.

1,428,386. COLLAPSIBLE RIM. SAMUEL N. MEYER, New York, N. Y. Filed Dec. 22, 1920. Serial No. 432,505. 3 Claims. (Cl. 301—31.)



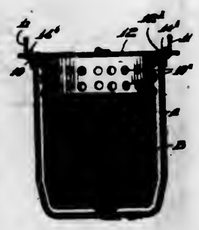
1. A collapsible rim having a transverse joint, and a keeper pivoted to both rim sections on opposite sides of the joint and with the pivots also on opposite sides of the longitudinal center line of the rim, whereby when the keeper is swung laterally around one pivot the two abutting edges of the sections are compelled to slide in substantial contact with each other while the rim contracts in circumference.

1,428,387. DRILL-TWISTING METHOD AND MACHINE. JOHN F. MEYERS, Alliance, Ohio, assignor to The Buckeye Twist Drill Company, Alliance, Ohio, a Corporation of Ohio. Filed May 16, 1921. Serial No. 469,824. 12 Claims. (Cl. 153—78.)



1. The method of twisting a drill blank which consists in successively twisting short sections of the blank and intermittently moving the blank endwise between successive twisting operations.

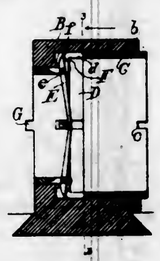
1,428,388. COMBINATION BOILER AND STRAINER. MARIE MILLER, Ottawa, Ontario, Canada. Filed Feb. 23, 1921. Serial No. 447,190. 1 Claim. (Cl. 53—1.)



A cooking utensil of the character described formed with hand grips, a lid formed with side wings diametrically opposed to one another and having elongated orifices therein designed to receive said hand grips, tongues hingedly connected to the side wings adjacent to said orifices and designed to completely close said orifices after the hand grips have passed therethrough.

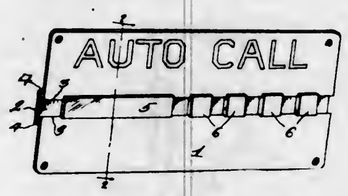
1,428,389. ADJUSTABLE GUN SIGHT. WALTER M. MILLER, Dougherty, Iowa. Filed Feb. 9, 1921. Serial No. 443,625. 4 Claims. (Cl. 33—53.)

1. In an adjustable gun sight, the combination with a supporting member, of a plurality of pointers, means borne by the supporting member for carrying the pointers, each pointer having one end pivotally connected with the said carrying means, the free ends of the said pointers



being arranged to move to and from a common center, and means borne by the said supporting member for operating the pointers.

1,428,390. CHANGEABLE SIGN. CHARLES MOORE, Visalia, Calif. Filed May 26, 1921. Serial No. 472,652. 1 Claim. (Cl. 40—142.)



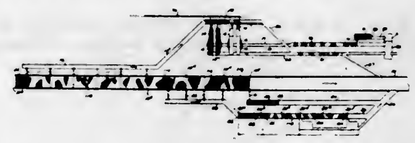
A display sign plate for the reception of tongues of blocks, said plate being formed from sheet metal and bent centrally longitudinally thereof to form a channel for receiving the tongues of the blocks, means whereby the sides of the plate may be secured to a support with the bent portion of the sign in engagement with the support and the rear face of the sign spaced from the support, said securing means forming means whereby the frictional holding of the tongues of the blocks may be varied through the longitudinal bending and flexing of the sign plate.

1,428,391. EXPANSION REAMER. ANTHONY A. MULAC, Alliance, Ohio, assignor to The Buckeye Twist Drill Company, a Corporation of Ohio. Filed May 27, 1921. Serial No. 473,014. 4 Claims. (Cl. 77—76.)



1. A reamer including a cylindric body having an axial bore, a series of kerfs extending outward from the axial bore part way to the periphery and a series of kerfs extending inward from the periphery part way to the axial bore, the kerfs of one series alternating with the kerfs of the other series, and means for expanding the body by an opening of the kerfs.

1,428,392. CONCENTRATOR. WILLIAM P. OGDEN, deceased, late of Denver, Colo., by Maude E. Holmes, administratrix, Spokane, Wash., assignor to J. M. Schnatterly, Spokane, Wash. Filed Jan. 15, 1919. Serial No. 271,316. 10 Claims. (Cl. 83—89.)



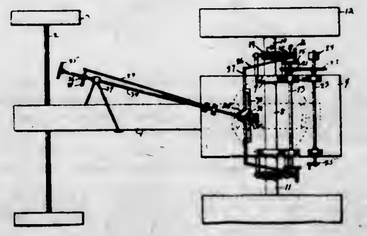
1. A gravity concentrator comprising a main flume, grizzlies at spaced intervals in the flume and spaced above the floor thereof, a conveyor flume, drawoffs leading from the bottom of the main flume beneath the grizzlies respectively, and connected with the conveyor flume, a distributor flume carrying baffles connected to said conveyor flume, drawoffs leading from said distributor flume and concentrating tables connected with said last mentioned drawoffs carrying riffles for retaining black sand and having an overflow for waste materials.

1,428,393. OPHTHALMIC MOUNTING. HAROLD K. PARSONS, Southbridge, Mass. Filed June 15, 1920. Serial No. 389,073. 2 Claims. (Cl. 88—50.)



1. In a device of the character described, the combination with a bridge member having a pivot receiving aperture therethrough, of a guard lever having an upstanding pivot portion extending through the aperture in the bridge portion, an actuating spring for the lever resting on the bridge and surrounding the pivot projection of the lever and a cap member carried by the pivot projection of the lever overlying the spring and slidably engaging a portion of the bridge for retaining the several parts in position.

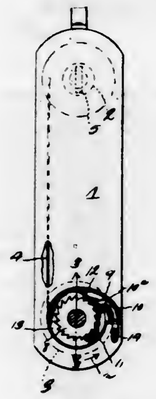
1,428,394. TRACTOR. ERNEST A. PATCH, Prattsburg, N. Y. Filed June 16, 1921. Serial No. 478,010. 1 Claim. (Cl. 180—17.)



In a vehicle, a pair of driving disks, a pair of driven disks, in engagement therewith, a bar, a worm gear provided on the bar intermediate its ends, a worm in mesh with the worm gear, a shaft for actuating the worm, a

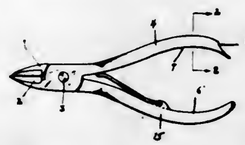
pair of levers pivoted intermediate their ends to the terminals of the bar, connecting means attached to the ends of the levers and the driven disks, links carried by the levers, and a rod connected to the links.

1,428,395. CAMERA. VICTOR G. PAUTLER, Fort Gage, Ill. Filed Apr. 15, 1921. Serial No. 461,541. 1 Claim. (Cl. 242—71.)



The combination with a camera having a film supply roller and a film accumulation roller, of handle members carried by said rolls, whereby said rolls may be rotated, a ratchet wheel carried by one of said rollers and disposed within a depression in one side of the camera, said depression having an offset portion to one side thereof, a spring actuated dog pivoted in said depressions where they communicate with each other and cooperating with the ratchet wheel, one end of said pivoted dog extending through the offset depression and provided with a finger engaging member overlying the side of the camera whereby said dog may be thrown out of engagement with the ratchet wheel and held out of engagement therewith, thereby allowing the ratchet carried roller to be reversely rotated.

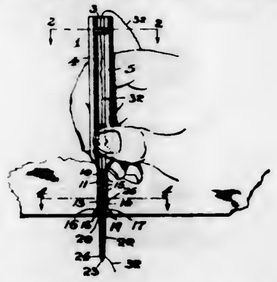
1,428,396. MANICURING INSTRUMENT. ADOLPH F. POZDECK, Newark, N. J. Filed Oct. 29, 1921. Serial No. 511,261. 2 Claims. (Cl. 30—23.)



1. In a device of the character described, a pair of nail clippers, the handles of which are curved, a plurality of serrations cut upon the concave surface of the handles for the purpose set forth.

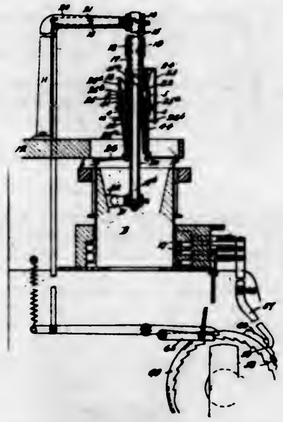
1,428,397. EMBROIDERY NEEDLE. SAMUEL M. RIKER, Chester, N. J. Filed June 22, 1921. Serial No. 479,701. 10 Claims. (Cl. 112—80.)

1. An embroidery needle comprising a handle-body provided with a longitudinally extending thread-receiving channel, a tubular extension at one end of said body, said extension being longitudinally slitted and having a plurality of laterally extending short slits, a needle having a portion movably disposed within said extension, and a laterally extending member projecting from said needle,



serving as a fingerpiece and being adapted to enter into retaining engagement with a laterally extending slit in said extension.

1,428,398. STRIPING MECHANISM FOR KNITTING MACHINES. FRANK W. ROBINSON, Reading, Pa., assignor to Schuylkill Hosiery Mills, Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Jan. 5, 1921. Serial No. 435,215. 5 Claims. (Cl. 66—21.)



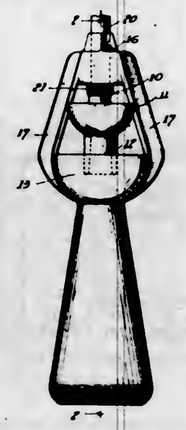
2. In combination with a knitting machine having needle-cylinder and operating-cam mechanisms; a radially and rotatively movable striping-thread finger; cam devices operative thereon to produce regular needle engaging movements of said finger; and a pattern-controlled series of jacks independently operative upon determined needles to temporarily raise them into cooperative relation to said finger.

1,428,399. CONTAINER VENT. AUGUST SCHILLING, San Francisco, Calif. Filed Sept. 6, 1921. Serial No. 498,802. 5 Claims. (Cl. 220—44.)



1. A container vent and closure comprising a base for securing over a container wall and provided with a vent extending therethrough and formed with a depression at the inner end of said vent, and a flexible diaphragm of stretchable material secured to the inner end of said base and overlying said depression, said diaphragm being cut at a point overlying said base.

1,428,400. GAS BURNER. HERMAN D. SCHROEDER, Los Angeles, Calif. Filed Aug. 19, 1920. Serial No. 404,609. 6 Claims. (Cl. 158—118.)



2. In a gas burner, a gas nozzle, an open cup member arranged in front of the nozzle, an expanding nozzle leading from said member on the axis of the gas nozzle, a second open cup member into which the expanding nozzle discharges, and an expanding open ended combustion chamber leading from the second mentioned cup member.

1,428,401. PROCESS OF MAKING REENFORCED CONCRETE STRUCTURES. JOHN T. SIMPSON, Newark, N. J. Filed Jan. 25, 1918. Serial No. 213,640. 5 Claims. (Cl. 25—130.)

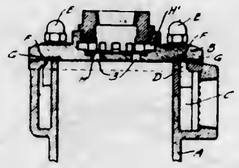


1. The herein described process, which consists in setting up shop cast reenforced concrete elements in alinement with their edges in contact, there being a groove in the edges of each plate, the grooves of adjoining plates being in alinement, calking the grooves from the inside forming molds on the inside of the structure and enclosing all of the seams between the elements, introducing concrete into the molds, and then removing the molds.

4. The herein described process, which consists in setting reenforced concrete elements in alignment, forming a mold on one side of the elements enclosing the joints between the elements whereby the elements become part of the mold, there being reinforcements of the elements projecting into the mold, securing wires to said reinforcements, there being loops formed on said wires extending outside of said mold, forcing wedges into said loops to securely fasten said mold into place, introducing concrete into mold, and then removing the mold.

1,428,402. RECIPROCATING PUMP OR COMPRESSOR. GEORGE F. STEEDMAN, St. Louis, Mo., assignor to Curtis & Co., Mfg. Co., Wellston, Mo., a Corporation of Missouri. Filed Jan. 10, 1921. Serial No. 436,113. 8 Claims. (Cl. 230—34.)

1. A pump, compressor or similar machine, comprising a cylinder provided in one of its ends with an inlet port, a head for said cylinder that extends over said port, retaining devices for said head that secure it to the cylinder, a valve for said port interposed between the head and the end of the cylinder and arranged between a pair of said cylinder head retaining devices, and a chamber for said



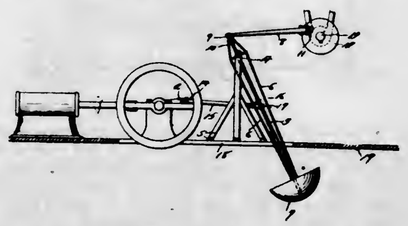
valve extending inwardly slightly beyond the inner face of the side wall of the cylinder and provided with an inner wall that limits the crosswise movement of the valve with relation to the cylinder.

1,428,403. CARLINE. JOHN E. TESSEYMAN and THOMAS NATHAN RUSSELL, Chicago, Ill., assignors to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 23, 1919. Serial No. 332,700. 6 Claims. (Cl. 108—5.6.)



1. In a carline for car roofs and the like, the combination of two L-shaped bars each of which is adapted to extend from side to side of the roof, said bars having their horizontal members lapped one on the other at the ridge, one of said bars being formed with a shoulder against which abuts the edge of the horizontal member of the other bar, said bars thence inclining away from each other, and declining towards their outer ends, and means whereby said lapped members are secured together.

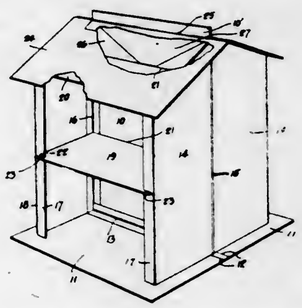
1,428,404. MOTOR-BALANCING DEVICE. JAMES W. TURNER, Statesville, Tenn. Filed May 25, 1920. Serial No. 384,060. 1 Claim. (Cl. 74—14.)



A motor balancing device comprising a pivoted lever pivoted to swing in a vertical plane, the pivotal point of said lever being adjacent the upper end of the lever, the lower end of said lever being provided with a weight right angularly disposed and oppositely disposed arms carried by the lever adjacent its pivotal point, downwardly, outwardly and inwardly extending truss rods extending from the upper end of the lever and over the right angularly disposed arms, said truss rod being connected to the lever adjacent the weight at its lower end, a connecting rod pivoted to the lever between its pivotal point and the weight and provided with a bifurcation for the reception of one of the truss rods, a motor for actuating said connecting rod, a substantially horizontally disposed connecting rod

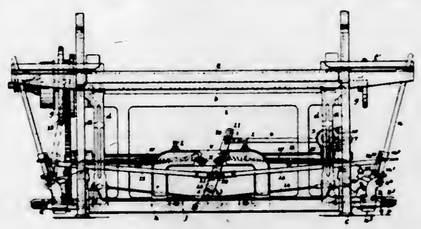
pivoted to the upper end of the lever, said last named connecting rod forming means whereby the power from the motor and the swinging lever may be utilized for driving shafting.

1,428,405. TOY HOUSE. AUGUST F. WEGENER, Ridgewood, N. J. Filed Sept. 24, 1921. Serial No. 502,842. 7 Claims. (Cl. 46—37.)



1. A toy building comprising a roof, a base, a vertical wall panel, means to pivotally connect the roof and base members to said panel, other wall panels, a floor panel pivoted to the first mentioned wall panel and movable into horizontal position between said other wall panels, and means to fasten said other wall panels and floor panel in fixed position for holding the roof and base members and wall panels from pivotal movement when the building is set up.

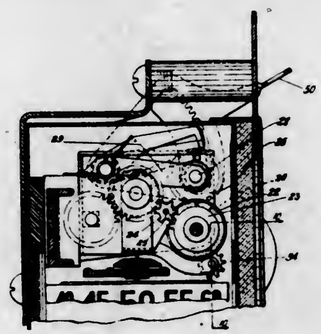
1,428,406. LOOM. WILLIAM S. WELLS, South Bethlehem, Pa., assignor to Benjamin Eastwood Company, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 9, 1919. Serial No. 343,599. 7 Claims. (Cl. 139—48.)



1. In combination, with a supporting structure, a pair of cockable picking members movable back and forth therein and each having a spring normally urging the same in one direction and movable in the other direction to cocked position, means to hold said members in cocked position movable to release the same, and mechanism to cause release of one member from and set the other in cocked relation to said means, and vice versa, alternately, including oscillators for causing releasing movement of said means, and means to actuate the oscillators alternately.

1,428,407. RESETTING MECHANISM. JOHN L. WHEELER, St. Louis, Mo., assignor, by mesne assignments, to The Measuregraph Company, a Corporation of Delaware. Filed Apr. 28, 1919. Serial No. 293,211. 6 Claims. (Cl. 235—144.)

1. In zero-setting mechanism for a counter having number wheels, the combination of a plurality of wheels corresponding to the number wheels, and carrying stop pins mounted so as to substantially align with each other when the counter wheels are in their zero position, a plurality of stop levers corresponding respectively to the said stop pins, a hand-actuated member, means for actuating the



stop-levers by the first part of the movement of the hand-actuated member to bring the stop levers into the paths of the stop-pins, and means actuated during the remainder of the movement of the hand-actuated member to rotate the number wheels to their zero position.

1,428,408. QUICK-DETACHABLE COUPLING. JOHN A. WHITE, San Francisco, Calif. Filed Nov. 30, 1921. Serial No. 518,974. 5 Claims. (Cl. 287—53.)

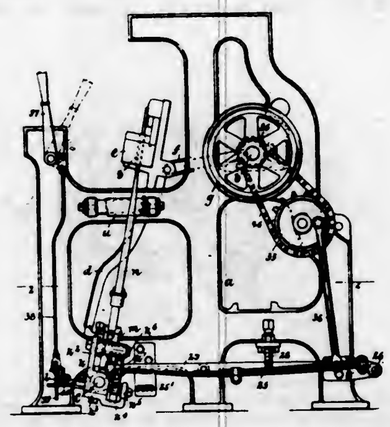


1. A separable coupling for rotary objects comprising a driving member having a central bore and a flange, a driven member having a central stud adapted to enter the bore of said driving member and a flange adapted to lie adjacent to the flange of said driving member, means actuated by a relative rotary movement between said members for connecting said flanges together to prevent endwise separation of said members, and a movable latch carried by the flange of one member and adapted to engage the flange of the other member to prevent said relative rotary movement.

1,428,409. LOOM. WILLIAM ZEEDY, Paterson, N. J., assignor to Benjamin Eastwood Company, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 28, 1920. Serial No. 413,321. 7 Claims. (Cl. 139—48.)

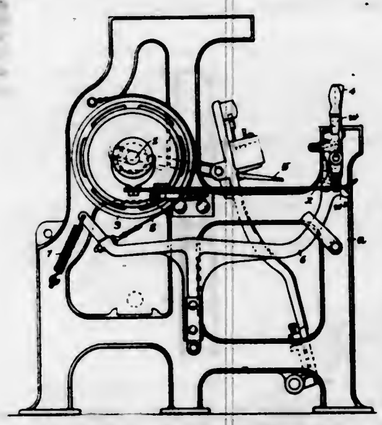
1. In combination, a supporting structure having a fixed portion and a batten-including portion movable back and forth, a cockable picking member movable with and also back and forth in the movable portion of said structure, a plate-spring fixed in the fixed portion of said structure and normally urging said member in the direction for impelling

the shuttle, a cocking device to hold said member cocked against the tension of said spring and movable to release



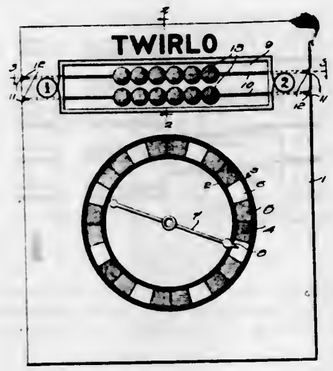
the same, and means to move said member to cocking position and said device to position to relase said member in alternation.

1,428,410. LOOM. WILLIAM ZEEDYK, Paterson, N. J., assignor to Benjamin Eastwood Company, Paterson, N. J., a Corporation of New Jersey. Filed May 28, 1921. Serial No. 473,507. 2 Claims. (Cl. 192—17.)



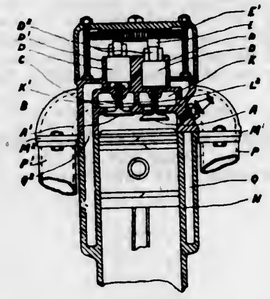
1. In combination, a loom frame, braking means including an actuating member movable back and forth to apply and release the brake, power controlling means including an actuating member movable back and forth substantially parallel with the first member to apply and cut off the power, a coupling normally connecting said members and adapted to move the first member to position to apply the brake when the second member moves to position to cut off the power, and means to uncouple said coupling from one member upon said members moving to said positions, whereby the first member may be thereupon moved to release said brake independently of the second member.

1,428,411. GAME BOARD. ALLAN J. BARBER, Woonsocket, R. I. Filed Mar. 21, 1921. Serial No. 454,111. 3 Claims. (Cl. 46—63.)



1. A game board comprising an indicator the surface of which is divided into a number of spaces of different colors, said board being provided with a cut-out portion, a plurality of rods extending across said cut-out portion, and counters arranged on said rods, the counters on each rod being of different color from the counters on the other rods and corresponding to one of the colors on the indicator.

1,428,412. INTERNAL-COMBUSTION ENGINE. ARTHUR WILLIAM BEAUCHAMP and EDGAR CHURCHILL DAVIDSON, Sandgate, Queensland, Australia. Filed Dec. 10, 1919. Serial No. 343,988. Renewed July 25, 1922. Serial No. 577,489. 3 Claims. (Cl. 123—52.)

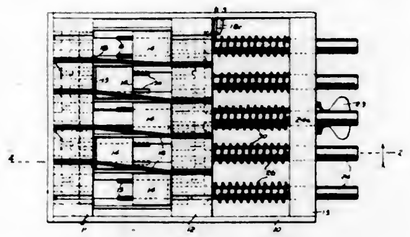


1. In combination, cylinders provided at opposite sides with apertured flanges connected to an intake pipe and an exhaust pipe, a detachable head for said cylinders provided with a centrally disposed horizontal compartment divided longitudinally by a wall into an inlet chamber and an exhaust chamber which communicates with the interiors of the cylinders, and pipes connected to said chambers and having horizontally disposed flanges detachably engaging the flanges of the cylinders.

1,428,413. COMBINATION CIRCUIT CONTROLLER. HENRY V. BELL, Elmhurst, Flushing, N. Y. Filed Feb. 12, 1921. Serial No. 444,474. 6 Claims. (Cl. 200—43.)

1. A combination circuit controlling means comprising separated series of terminals, conductor elements running back and forth between said terminals and elements mov-

able back or forth between the respective series of terminals, certain of said movable elements having members



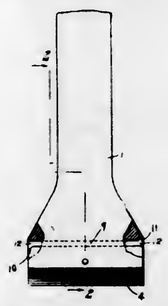
to complete the circuit at one series of the terminals, and others of said movable elements having members to complete the circuit at the terminals of the other series.

1,428,414. WIRE STRETCHER. JOHN H. BEST, Edmond, Kans. Filed Nov. 1, 1920. Serial No. 421,100. 1 Claim. (Cl. 24—230.5.)



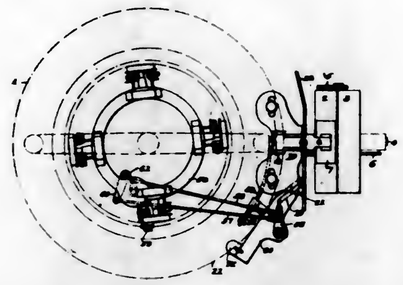
In a wire stretcher a hook comprising a body having one end widened and flattened and formed with a hole for the passage of attaching means, said body having its other end formed with a bill tapered throughout its length and terminating in an outwardly deflected point, the body and bill being rectangular in cross section with opposite angles of the angular body forming the confronting edges of the body and bill, the tapering of the bill defining a wedge shaped opening between the bill and the body.

1,428,415. DRILL BIT. JAMES JOSAPH BROSSOIT, Salt Lake City, Utah. Filed Mar. 22, 192.. Serial No. 454,376. 5 Claims. (Cl. 287—103.)



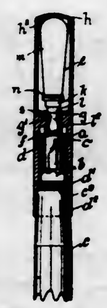
3. A drill having a shank portion provided with a recess in its lower edge, a cutting edge or tool disposed in said recess, a retaining plate disposed between the cutting tool and the shank portion, and means on said plate for locking the cutting tool in the recess.

1,428,416. STOP-MOTION BRAKE ATTACHMENT. FRANK CRAWFORD, Sr., New Brunswick, N. J., assignor to The Crawford Manufacturing Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Jan. 22, 1919. Serial No. 272,537. 4 Claims. (Cl. 192—116.)



1. The combination in a brake release for knitting machines, of a brake; a lever for actuating the brake; a spring-pressed bolt for holding the lever and the brake in the raised position; a sliding bar; a spring for retracting the bar; a lever having two arms, one arranged to be engaged by the bar and the other arranged to engage the bolt; a shaft; an arm on the shaft engaging the bar; a slotted lever for retaining the bar in the projected position against the pressure of the spring; a latch for engaging the slotted lever; and means for releasing the latch.

1,428,417. FOUNTAIN PEN. MERTON DOUGLAS DAVIS, London, England. Filed Dec. 6, 1920. Serial No. 428,761. 6 Claims. (Cl. 120—42.)

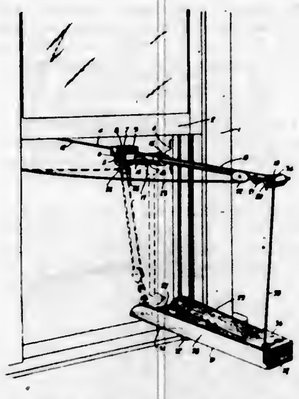


1. A fountain pen or the like device comprising a body member, a removable protective cap member adapted to be fitted on to either end of said body, a chamber in one of said members and a removable and telescopically collapsible filling appliance housed in said chamber, said appliance comprising at least two tubular members one of which is collapsible.

1,428,418. CLOTHESLINE BRACKET AND TRAY. DANIEL E. DAVISON, Brooklyn, N. Y. Filed Mar. 15, 1921. Serial No. 452,444. 2 Claims. (Cl. 68—3.)

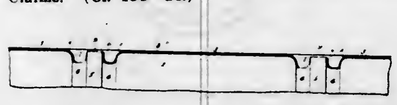
1. A clothes line support, comprising a bar carrying a securing bracket at one end and a pair of line rollers at the other, a pair of spaced pins extending crosswise through said bar at points between the bracket and the

rollers, a rotatable sleeve slidably mounted between said pins, said sleeve carrying an arm, said sleeve having



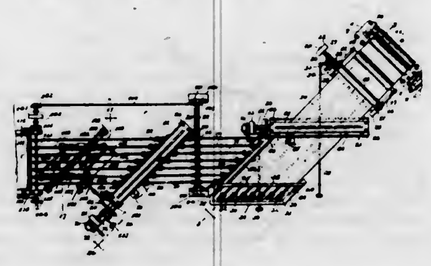
slots at both ends to engage either of said pins and so disposed that the sleeve is rendered capable of being locked against movement at every quarter turn.

1,428,419. METHOD OF MAKING SHOES OR CASINGS FOR PNEUMATIC TIRES. BARTHOLD DE MATTIA, Clifton, N. J. Filed Feb. 4, 1920. Serial No. 356,210. 5 Claims. (Cl. 154—14.)



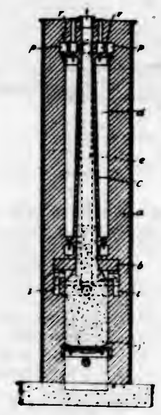
1. The method of forming shoes or casings for pneumatic tires, which consists in building up successive layers of superimposed fabric and separating such layers into cylindrical sections as they are built up, whereby to form a plurality of cylindrical tire blanks simultaneously and subsequently expanding and shaping each section.

1,428,420. MACHINE FOR CUTTING AND FEEDING TIRE-MAKING FABRIC. BARTHOLD DE MATTIA, Clifton, N. J. Filed Mar. 9, 1920. Serial No. 364,533. 11 Claims. (Cl. 164—48.)



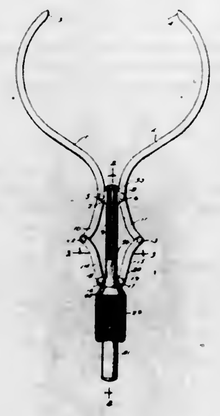
1. In a machine of the class described, in combination, means for advancing a strip of fabric, and a cutting mechanism, comprising a bed plate, a reciprocating cross-head, means to reciprocate the cross-head, a draw cutter carried by said cross-head, means to operate said draw cutter, and means controlled by the movements of the cross-head to control the cutter operating means.

1,428,421. GASIFICATION OF COAL OR OTHER CARBONACEOUS MATERIAL. ARTHUR MCDOUGALL DUCKHAM, London, England. Filed May 2, 1921. Serial No. 466,223. 2 Claims. (Cl. 48—202.)



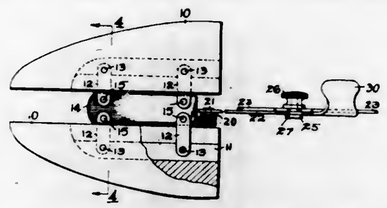
1. A process of gasifying coal and the like, which consists in carbonizing as completely as practicable the material in an externally heated vessel, receiving the residue from said vessel directly into a generator, heating the residue in the generator to incandescence by a blast of air, heating the said vessel externally by means of the sensible heat of the blow gases and in addition by burning any producer gas formed, substituting a steam blast for the air blast when the residue is incandescent, passing a portion of the water gas thus produced through the material in the said vessel and burning a portion of the said water gas so as to heat the said vessel externally.

1,428,422. CALIPER. BENJAMIN NAHABED DUDUKIAN, Syracuse, N. Y. Filed Mar. 9, 1920. Serial No. 364,408. 8 Claims. (Cl. 33—148.)



1. In a precision instrument of the character described, a pair of arms, means for swinging said arms toward and from each other, and a plurality of means associated with said arms for indicating the distance the ends of the latter are apart at any time, said means including a liquid indicator for indicating thousandths of an inch.

1,428,423. SHOE STRETCHER. ANSHELM BURTON ELMSTROM, Malden, Mass. Filed Nov. 15, 1920. Serial No. 424,007. 1 Claim. (Cl. 12—128.2.)



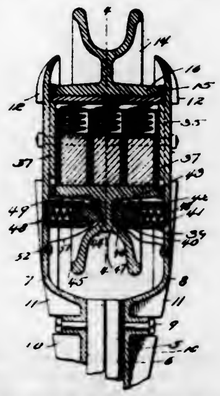
In a shoe tree, the combination of a wooden sectional toe portion formed in halves, a pair of parallel links pivoted to each half and adapted to extend therefrom toward the other half, the two corresponding links of each half making equal angles at all times with a central plane, a flat slide pivotally connected with said links on opposite edges of the slide and at equal distances apart, the two halves of said toe portion being provided with horizontal slots therein for reception of said links and slide, and means for moving said slide longitudinally.

1,428,424. ELECTRIC ADVERTISING SIGN. OTTO FEHLER, Berlin-Steglitz, Germany. Filed Oct. 12, 1920. Serial No. 416,591. 7 Claims. (Cl. 176—14.)



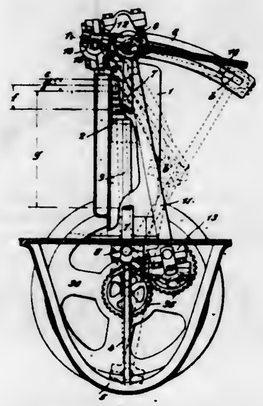
1. An incandescent advertising sign in which the filament constitutes the legend, comprising a lamp, a plurality of filament supporting hooks in said lamp, said hooks being of greater number than are required for the support of the filament in a single position of arrangement.

1,428,425. SELF-LUBRICATING BEARING OR AXLE. CHARLES M. FEIST, Sioux City, Iowa. Filed Mar. 2, 1921. Serial No. 449,176. 10 Claims. (Cl. 64—27.)



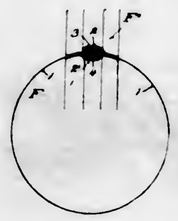
1. A wheel bearing for trolley wheels and the like, consisting of a cylindrical tubular body on which the hub of the wheel is mounted, automatically operating lubricating means wholly enclosed within the said body and acting on the inner side of the wheel hub, and a supplemental lubricating means comprising inwardly automatically movable lubricating material engaging the opposite portions of the flange of the trolley wheel between the hub of the latter and the outer grooved member.

1,428,426. INTERNAL-COMBUSTION ENGINE. GAETANO FERIANI, Belluno, Italy, assignor to Società Brevetti Feriani, Rome, Italy. Filed Jan. 30, 1920. Serial No. 355,216. 5 Claims. (Cl. 123—48.)



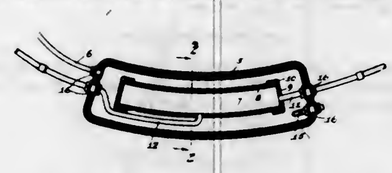
1. In an internal combustion engine of the variable stroke constant power type, the combination of one or more cylinders, a piston associated with each cylinder, a fixed tubular guide secured in the stem of each piston, a cross head at the end of the piston stem, connecting rods pivoted to the cross head, two slotted oscillating levers between said rods, and a block slidably mounted in the slot in each lever; one end of each of said rods being connected to the adjacent block.

1,428,427. PIPE CONSTRUCTION. PHILLIPP F. FLAGGE, Green Bay, Wis., assignor to Klauer Manufacturing Company, Dubuque, Iowa, a Corporation of Iowa. Filed Dec. 27, 1920. Serial No. 433,361. 5 Claims. (Cl. 113—33.)



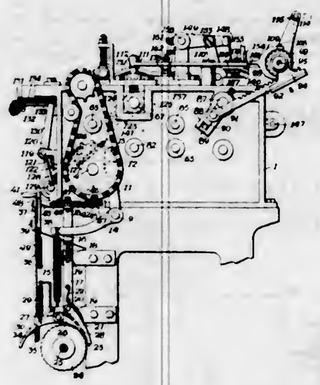
1. A method of forming metal conductor pipe sections consisting of continually feeding an initially flat blank to successively arranged sets of forming rolls, whereby the body of the blank is progressively shaped in tube formation having flat associated edge strips extending therefrom, and turning both of said edges in the same direction continuously until an interlocked double seam is produced.

1,428,428. METHOD AND TIRE-VULCANIZING APPARATUS. OSCAR M. FREDD, Hancock, Mich. Filed Apr. 5, 1921. Serial No. 458,826. 6 Claims. (Cl. 18—45.)



1. In combination with a pneumatic core or former, and means to apply fluid pressure thereto, for vulcanizing devices, a heating means within the pneumatic core or former, and means for supplying a heating medium to said heating means.

1,428,429. MACHINE FOR MAKING WINDOW-ENVELOPE BLANKS. SAMUEL FURMAN, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed Aug. 24, 1918. Serial No. 251,301. 13 Claims. (Cl. 93—61.)

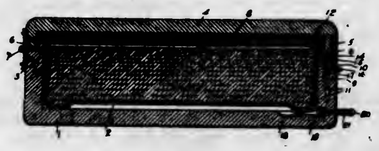


1. In a machine of the class described, means for gumming around the opening of a window envelope blank, comprising a rotatable gumming die support, a longitudinal gumming member having a fixed position on said support, a second longitudinal gumming member adjustable toward and away from said first gumming member and a rotatable member having a plurality of spaced grooves for cooperation with said gumming members, the spaces between said grooves corresponding to the several adjustments of said gumming members.

6. In a machine of the class described, means for advancing successive apertured window-envelope blanks, means for intermittently feeding a web of material for formation into patches to be applied to the apertures of said blanks, means for detecting the presence of a blank in motion on said advancing means, and means operable by said detecting means for interrupting the intermittent feed of patch material in the absence of a blank in motion on said advancing means.

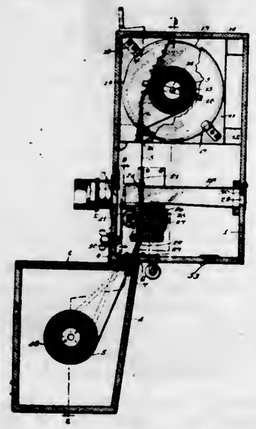
1,428,430. CAN HOLDER. BENJAMIN KONST. GEROJOHN, Princeton, N. J. Filed May 7, 1921. Serial No. 467,684. 4 Claims. (Cl. 217—56.)

1. A can holder comprising a box, a hinged cover on the box, an air-tight packing carried by the cover and adapted to engage a can within the box when said cover is closed, said box having a peripheral groove around its upper edge, flanges on the cover accommodated in the



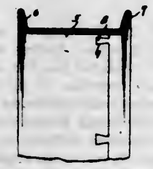
groove, said air-tight packing comprising a gasket carried by the flanges and a sheet of pressed cork carried by the under face of the box cover.

1,428,431. CAMERA. VICTOR A. GIANETT, New York, N. Y. Filed Dec. 9, 1920. Serial No. 429,458. 2 Claims. (Cl. 88—18.5.)



1. In a moving picture machine, a film feed including a guide plate formed with an opening, a frame pivoted at one end in juxtaposition to the plate, means normally urging the frame toward the plate for clamping the film therebetween, said frame having an opening aligning with the opening of the plate, said plate and frame also provided with additional aligned openings, a feeding mechanism arranged to cooperate with the film at the latter openings and adapted to press against and move the film longitudinally and at the same time move the film and frame laterally causing said frame to move away from the film for releasing the same as the film is moved, said frame automatically returning to a clamping position for holding the film stationary during the exposure thereof.

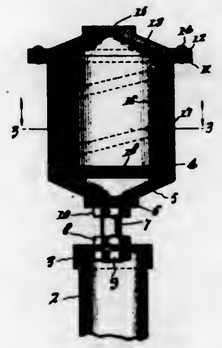
1,428,432. RIM. GEORGE E. GRUNDIG and SYLVESTER DIBBINS, Brooklyn, N. Y. Filed Oct. 22, 1921. Serial No. 509,464. 1 Claim. (Cl. 301—35.)



A tire rim comprising major and minor sections, the major section being formed along the inner edge thereof

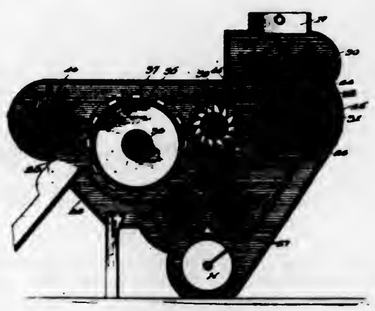
with dovetail notches, and dovetail lugs formed along the inner edge of the minor section and snugly received in said notches for holding the opposed edges of the major and minor sections flatly in engagement, said minor section being split whereby the dovetail lugs enter the notches by a radial movement.

1,428,433. CONDENSER FOR AUTOMOBILE RADIATORS. FRANKLIN J. GUSTINE, Chicago, Ill. Filed Jan. 31, 1921. Serial No. 441,316. 4 Claims. (Cl. 257—25.)



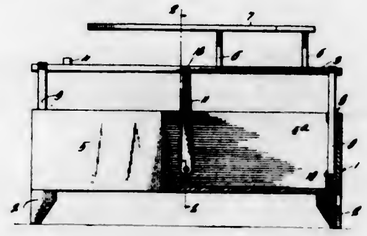
1. In combination with a vehicle radiator, a condenser composed of an outer casing or shell, a core within the shell provided with a spiral groove in communication with the radiator, and means for attaching the casing or shell to the radiator, substantially as described.

1,428,434. COTTON MACHINERY. JOSEPH LUTHER HART, Chickasha, Okla. Filed May 19, 1920. Serial No. 382,460. 13 Claims. (Cl. 19—36.)



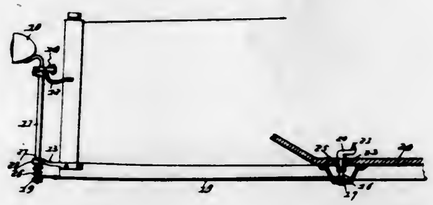
2. In a machine of the character described, a casing, a false bottom in said casing having an upper reticulated portion, a lower reticulated portion and an intermediate inclined imperforate portion, a pair of feed rollers in the casing, a picker cylinder receiving the cotton from the feed rollers and delivering it against the upper reticulated portion of the false bottom, a pair of picker rolls engaging the cotton to carry it across the lower reticulated portion, a saw cylinder receiving the cotton from the picker rolls, a stripper cooperating with the saw cylinder, a spike cylinder arranged in cooperative relation with said stripper and said picker rolls and having its teeth spirally arranged, a doffer brush for the saw cylinder and a conveyor for the refuse arranged in said casing below the false bottom.

1,428,435. IRONING CHEST. DUKE O. HIMEBAUGH, Hooper, Nebr. Filed Jan. 29, 1920. Serial No. 354,912. 1 Claim. (Cl. 68—10.)



A chest of the class described having legs pivotally mounted therein, a lid hingedly connected with said legs and adapted to be reversed when in open position, another leg hingedly mounted in the chest and connected with the lid to hold it in open position said lid having a cleat extending transversely across its inner face and adapted to fit between the front and rear walls of the chest to hold the lid in closed position.

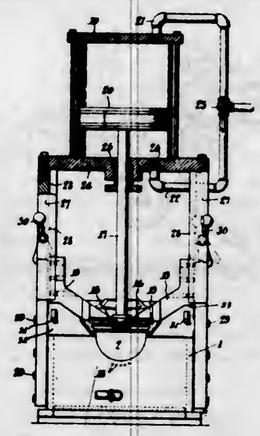
1,428,436. DIRIGIBLE HEADLIGHT. GEORGE L. HORTON, Caseville, Mich. Filed Apr. 20, 1921. Serial No. 462,951. 1 Claim. (Cl. 240—61.)



A dirigible headlight mechanism having headlights provided with spindles connected for simultaneous movement, means for rocking one of the spindles to vary the line of projection of the light rays from the headlights, collars provided with radial notches in their upper faces and rotatably supporting the spindles, compression springs in surrounding relation to the spindles below the collars, and diametrical pins inserted through the spindles above the collars and engaging notches in seats formed in the latter, whereby the lamps are retained in any angular position in which they may be disposed.

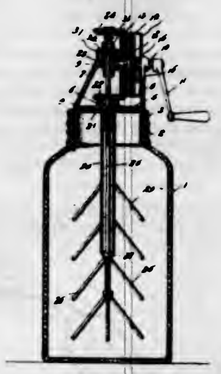
1,428,437. PULP MOLD. JACK C. JANKUS, Scranton, Pa., assignor to Woman's Institute of Domestic Arts & Sciences, Inc., Scranton, Pa., a Corporation of Delaware. Filed June 26, 1920. Serial No. 391,873. 7 Claims. (Cl. 92—59.)

1. In a press for shaping plastic material, the combination of pressure applying mechanism, movable and stationary mold members associated with said mechanism, means for feeding plastic material to the mold members, means for applying pressure to the movable mold member,



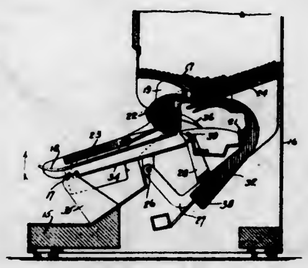
and devices for locking said movable mold member in position for exerting the desired maximum compression on the plastic material.

1,428,438. CHURN. MCBRIDE L. KELLY, Thomasville, Ga. Filed June 3, 1922. Serial No. 565,629. 3 Claims. (Cl. 259—104.)



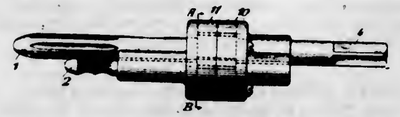
1. In agitator operating mechanism, a supporting frame comprising a bottom member and arms upstanding from the ends of the bottom member, said bottom member being formed with an opening, a tubular collar extending through said opening, a tubular shaft connected to said collar and depending therefrom, a shaft within said tubular shaft and acting to hold the tubular shaft to said tubular collar, agitators on said shafts, a shaft in axial alinement with the second named shaft and connected thereto and extending above said tubular collar, a beveled pinion on the upper end of said last mentioned shaft, a beveled pinion on the upper end of said tubular collar, a beveled gear meshing with said pinions for driving the same to operate said first and second named shafts in relatively reverse directions, a bearing collar carried on one of said collars for said last named shaft and driving means carried by the other of said arms for said beveled gear.

1,428,439. DISPENSING MACHINE. JOHN EDWIN KENKEL, Great Falls, Mont. Filed Sept. 17, 1921. Serial No. 501,490. 12 Claims. (Cl. 211—8.)



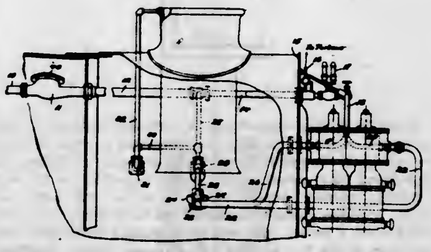
1. A dispensing machine including a hopper formed with an open end, a platform secured below said hopper, lugs movably mounted upon said platform, said lugs normally co-operating with the open end of said hopper to prevent articles within said hopper from passing therethrough and means also secured to said platform and connected to said lugs for permitting the latter to be positively moved to secure the deposit of an article upon said platform.

1,428,440. DEVICE FOR MOUNTING AND REMOVING TIRES. CARL KERSCHBAUM, Hinwil, Switzerland, assignor to the Firm Stössel & Cie., Wadenswil, Switzerland. Filed Jan. 28, 1921. Serial No. 440,766. 4 Claims. (Cl. 157—6.)



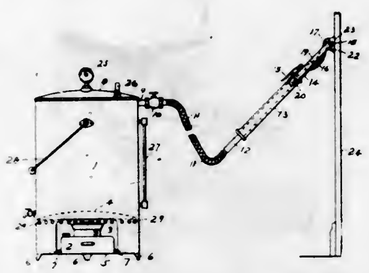
1. Implement for mounting and demounting pneumatic tires, comprising three positively rotated members, two of which serve to guide the implement on a wheel rim edge, while the third member is cylindrical and terminates in a pointed end extending beyond the other two members.

1,428,441. LOCOMOTIVE. WILLIAM F. KIESEL, JR., Altoona, Pa. Filed Feb. 2, 1920. Serial No. 355,707. 13 Claims. (Cl. 105—37.)



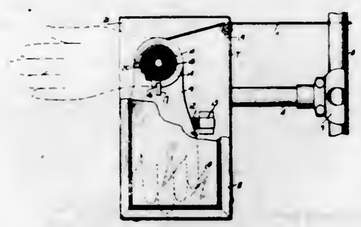
1. In a locomotive having a smoke box at the front thereof and steam operated auxiliary apparatus in front of said box, the improved means for supplying steam to said apparatus comprising a front bridge pipe extending through the front flue-sheet of the boiler and the smoke box to said apparatus and means to control the supply of steam to said apparatus.

1,428,442. APPARATUS FOR REMOVING WALL PAPER. EDGAR T. LANCASTER, Palatka, Fla. Filed Feb. 17, 1921. Serial No. 445,722. 1 Claim. (Cl. 126—271.1.)



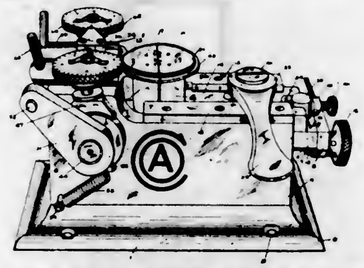
In an apparatus for removing wall paper; a portable steam boiler, having a steam outlet near its top; a main valve attached to said outlet; a flexible hose connecting said main valve with one end of an operating handle; the operating handle, consisting of a pipe incased in a heat insulating covering, forming part of the steam conduit; a spring operated valve attached to the other end of the operating handle; a flexible hose connecting said spring operated valve with the inlet pipe of a steam spray nozzle; the steam spray nozzle consisting of a perforated tube, having guide flanges at both ends; sockets formed in said guide flanges; flexible arms, secured on the operating handle, extending outwardly and forwardly, and having pins secured at their outer ends; and said pins engaging in the sockets in the steam spray nozzle flanges.

1,428,443. TRAFFIC MIRROR. JACOB MANDEL, New York, N. Y. Filed Dec. 13, 1921. Serial No. 522,178. 1 Claim. (Cl. 116—52.)



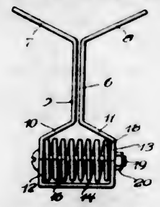
A traffic mirror comprising, a reflecting surface, a signal arm arranged in back of the reflecting surface, a shaft for pivotally supporting said signal arm, a casing for supporting said shaft, said casing together with said reflecting surface substantially enclosing said arm normally, a pulley loosely mounted on said shaft and provided with a notch, and means extending from said arm into said notch for locking the arm and pulley together, a spring connected with said shaft and said pulley for resiliently holding the pulley in a given position and for returning the same to that position when moved therefrom, and a flexible member connected with said pulley extending from said casing, said flexible member being adapted to be pulled for rotating the pulley and thereby swinging the arm to a position outside of said casing for giving a signal.

1,428,444. FRAME STRETCHER. ALBERT E. MAYNARD, Southbridge, Mass., assignor to American Optical Company, a Voluntary Association of Massachusetts. Filed Nov. 26, 1919. Serial No. 340,722. 26 Claims. (Cl. 29—20.)



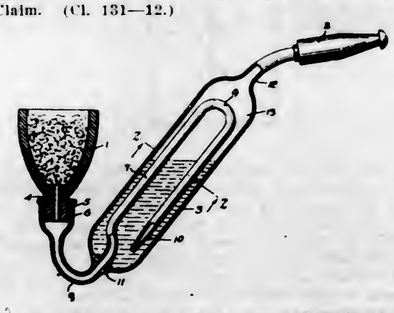
1. A device of the character described comprising a pair of relatively movable slide members, eye wire plates carried by said members, and means for relatively shifting said plates.

1,428,445. TENSIONING DEVICE FOR SHUTTLES. ARTHUR R. MEEKS, Columbus, Ga. Filed May 12, 1922. Serial No. 560,462. 2 Claims. (Cl. 139—46.)



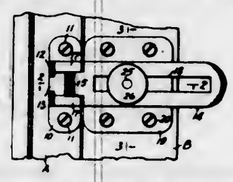
1. A tensioning device for shuttles comprising a metallic yoke having substantially parallel arms brought together upon the filling and having free extremities, the portion of the yoke adjoining the arms being relatively wide, resilient means placed in the relatively wide portion of the yoke, and adjusting means also connected with the relatively wide portion of the yoke, substantially as described.

1,428,446. SMOKING PIPE. GEORGE A. MILKIE, Brooklyn, N. Y. Filed Dec. 7, 1920. Serial No. 428,995. 1 Claim. (Cl. 131—12.)



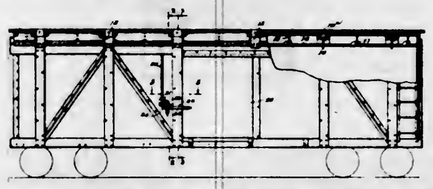
In a smoking pipe, a bowl, a stem, a barrel partially filled with liquid, a tube including a U-shaped portion, one end of said U-shaped portion forming a cup shaped receptacle receiving the lower end of the bowl, the other end of said U-shaped portion communicating with the lower end of the barrel, said tube extending upwardly in the barrel and including a return bend located above the water line in the barrel and a tapered open end located below the water line, the upper end of the barrel communicating with the stem.

1,428,447. SASH FASTENER. JOHN O'CONNOR, New York, N. Y. Filed Sept. 28, 1921. Serial No. 503,770. 6 Claims. (Cl. 292—268.)



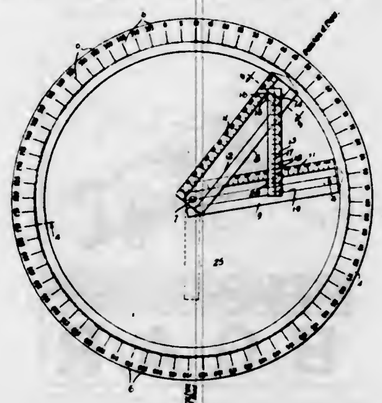
1. A sash fastener including a latch element, means to pivotally mount said element on the meeting rail of an outer sash to swing to a position in the plane of the outer sash or transversely to said plane to overlie an inner meeting rail, an element adapted to be secured to the meeting rail of the inner sash, and a clamp slidable longitudinally of said first element and having means to rockably and slidably engage the second element.

1,428,448. FREIGHT-CAR CONSTRUCTION. CALVIN PECK, Bloomfield, N. J., assignor of one-half to Mason F. Grymes, Orange, N. J. Filed Apr. 7, 1922. Serial No. 550,486. 5 Claims. (Cl. 105—377.)



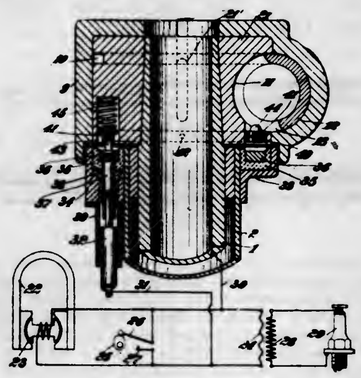
1. A freight car construction which comprises a plurality of pivoted doors in the roof of the car, a slidable latch member within the car, means on each door to be engaged by the latch member, and means outside the car to operate the latch member.

1,428,449. NAVIGATING INSTRUMENT. BRYAN W. PRALL, West New Brighton, N. Y. Filed Mar. 16, 1921. Serial No. 452,638. 7 Claims. (Cl. 33—75.)



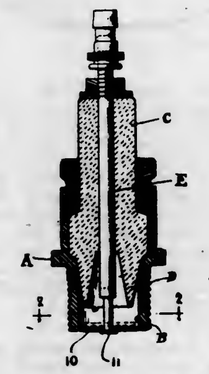
1. An instrument of the character described, comprising a circular base plate, an upstanding peripheral flange around the base plate, a pair of radial indicating arms pivoted at the center of the base plate, a third indicating arm carried by one of the first mentioned arms, and means extending inwardly from said flange receiving and guiding the free ends of the first mentioned arms.

1,428,450. DEVICE FOR PREVENTING THE THEFT OF MOTOR CARS AND THE LIKE. WILHELM ROMEISER, Lichterfelde, near Berlin, and LUDWIG SCHIFF, Berlin, Germany, assignors to Hans Malzoff, Dresden, Saxonia, Germany. Filed Feb. 4, 1921. Serial No. 442,564. 6 Claims. (Cl. 70—127.)



4. In combination with the steering wheel, steering shaft, steering column, and the motor ignition circuit of an automobile or the like; an insulated metal ring fixed to the steering column; an electrical connection between the insulated ring and one lead of the primary ignition circuit; a locking member associated with the said wheel and adapted to be brought into three positions; a key for bringing the said locking member into the said three positions; the said member being adapted to fix the wheel immovably on the shaft in its one position, to loosen the wheel from the shaft while preventing its detachment therefrom in a second position, and to permit of the detachment of the wheel from the shaft in a third position; a rocking metal member associated with the shaft; a spring for moving the rocking metal member against the said insulated ring when the locking member is in its second position; means for moving the rocking metal member away from the insulated ring when the locking member is in its first position; and a second electrical connection between the rocking member and the other lead of the primary ignition circuit.

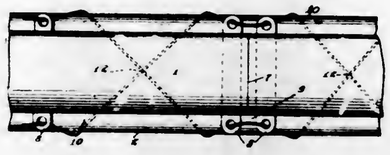
1,428,451. SPARK PLUG. HAROLD G. SCHLECHT, Bradentown, Fla. Filed Feb. 14, 1920. Serial No. 358,628. 2 Claims. (Cl. 123—169.)



1. In a spark plug, a metallic shell, a main electrode rod having its cylinder end surrounded by the correspond-

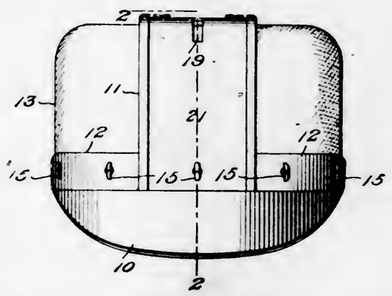
ing end of the shell, and a disk slidably mounted on the cylinder end of the rod and having its edge located adjacent to the wall of the shell to produce a spark gap between said edge and wall.

1,428,452. EMERGENCY TIRE. PHILIP N. SCHORR, Lancaster, Ohio. Filed Aug. 27, 1919. Serial No. 320,206. 1 Claim. (Cl. 152—23.)



An emergency tire for motor vehicle wheels, comprising a strip of flexible resilient material arranged to be seated within the rim construction of a vehicle wheel and to project radially beyond the same to provide a yieldable traction surface for said wheel, means for retaining said tire in its position of application upon said wheel, including a plurality of spaced metallic bars arranged to pass transversely through said tire so that the ends thereof will lie outside of the rim of said wheel, and a lacing arranged to pass through apertures formed in the outwardly projecting ends of said bars and to be trained in a crosswise manner around the felly of said wheel, whereby upon the tightening and securing of said lacing the ends of said tire will be drawn together to retain the latter in connection with said wheel.

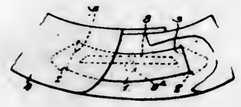
1,428,453. CAP VISOR AND LAMP SUPPORT. BENJAMIN J. SCHWARZ, NELSON FORISTER, and ALBERT HIRT, Breeze, Ill. Filed Nov. 27, 1920. Serial No. 426,803. 1 Claim. (Cl. 2—106.)



A combined lamp support and visor for miner's caps comprising a single piece of material shaped to provide the visor, and an attaching flange curved to conform to the curvature of the crown of the cap, said flange being perforated, a lamp support rising from the visor centrally thereof and arranged directly in advance of the cap, the upper end of said support being offset at a right angle to repose upon the top of the cap, means for securing the offset portion to the top of said cap, said lamp support having a slot at the upper end thereof, and a metallic strip arranged within the cap and in parallel relation to said flange, and means for securing the said strip and flange together.

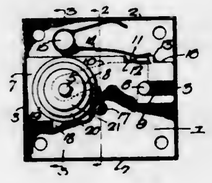
1,428,454. TIE ADJUSTER AND RETAINER. EDWARD ARTHUR SLACK, Auckland, New Zealand. Filed Dec. 31, 1920. Serial No. 434,228. 2 Claims. (Cl. 2—70.)

1. A tie adjuster and retainer comprising a body shaped to fit the front portion of a collar, supporting books carried by the terminals of the body adapted for insertion in slots formed in a collar, and collar button engaging means



carried by the body constituting supplemental supporting means for maintaining the body in position.

1,428,455. LOCK. FRANK SOLEY, Philadelphia, Pa., assignor to The Miller Lock Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 30, 1921. Serial No. 504,296. 3 Claims. (Cl. 70—75.)



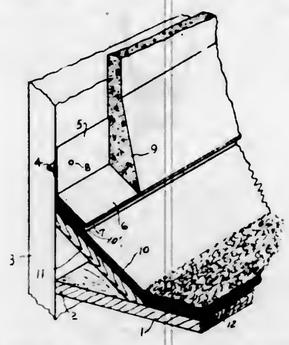
2. The combination in a lock, of a casing; two pins projecting from the casing; a bolt slidably mounted on the pins; a tumbler arranged to engage the bolt; a spring for yieldingly holding the tumbler in engagement with the bolt; a series of disk wards mounted on one of the pins; and a key hub mounted in the casing in such position in respect to the wards and the bolt that a key located in the key hub and turned will engage the tumbler and the bolt.

1,428,456. EDUCATIONAL APPARATUS. WALTER STRANDERS, London, England. Filed May 2, 1921. Serial No. 466,191. 5 Claims. (Cl. 35—9.)



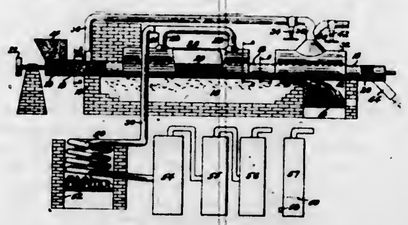
1. In educational apparatus the combination of a plurality of separate letter-elements each bearing an area of distinctive colour and a key-element bearing a series of distinctively coloured areas in an order such that the letter-elements when matched therewith by their coloured areas are arranged as desired.

1,428,457. ROOF FLASHING. GEORGE E. SWENSON, Hastings-on-Hudson, N. Y., assignor to The Barrett Company, a Corporation of New Jersey. Filed Aug. 30, 1920. Serial No. 406,954. 5 Claims. (Cl. 108—26.)



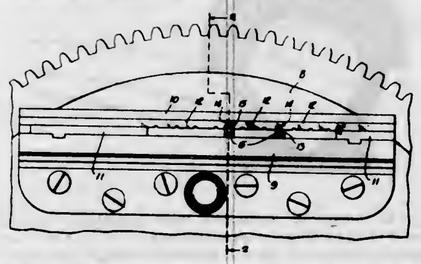
1. In a device of the kind described, in combination a wall, a sheet of material having one portion bent at an angle to another portion with its outer edge turned upwardly, one of said portions being applied to the said wall.

1,428,458. PROCESS AND APPARATUS FOR RECOVERY OF HYDROCARBONS FROM OIL SHALE. CAREY W. THOMPSON, New York, N. Y. Filed Sept. 15, 1919. Serial No. 323,883. 3 Claims. (Cl. 196—21.)



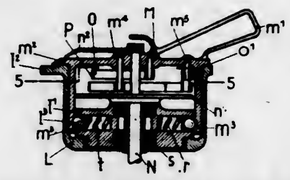
1. A process for distillation of hydrocarbons from oil shale comprising heating the shale by external means to free gasolene and light oils, removing light oils and gasolene then heating the shale at a higher temperature to vaporize the heavy hydrocarbons, and introducing the heavy vapors freed from said light oils and gasoline into a fresh cold quantity of shale prior to the first heat treatment.

1,428,459. MOLD FOR TYPOGRAPHICAL SLUGS. LOUIS C. TINSLEY, New York, N. Y. Filed May 16, 1921. Serial No. 470,126. 5 Claims. (Cl. 199—98.)



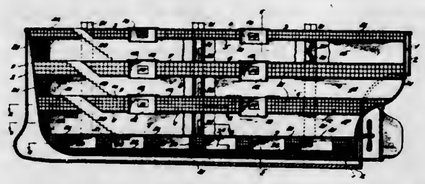
1. The combination with a mold for typographical machines, of a mold cap comprising a plurality of sections adapted to be secured together in alinement, means for securing said sections together, and core blocks secured to said mold cap by the securing means of the sections thereof.

1,428,460. CONTROL MECHANISM. GRAF ALFRED VON SODEN-FRAUNHOFEN, Friedrichshafen, Germany, assignor to the Firm: Zahnradfabrik Aktiengesellschaft, Friedrichshafen-on-the-Bodensee, Germany. Filed June 28, 1920. Serial No. 392,443. 3 Claims. (Cl. 74—39.)



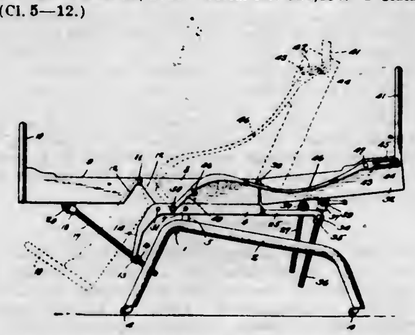
1. In a device of the kind described in combination, two members movable relatively to each other, a spring under preliminary tension operatively connecting said members and adapted, on being placed under increased tension by movement of one member, to cause the other member to follow this movement whereby the tension of said spring is reduced to its minimum which is equal to its preliminary tension, a fixed scale and pointers on both members adapted to coincide when said springs are under minimum tension.

1,428,461. NONSINKABLE VESSEL. HENRY F. WAITZ, New York, N. Y. Filed July 13, 1920. Serial No. 395,914. 5 Claims. (Cl. 114—68.)



1. A vessel comprising a hull, a protective shell, and means spacing said hull and shell, said vessel having a plurality of double-walled buoyant unit containing decks, a plurality of double-walled buoyant unit containing compartments between decks, and said decks having hatchways leading therethrough which are provided with lateral doors and doorways for passage of said units.

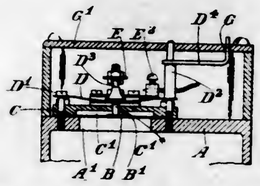
1,428,462. BED. LLOYD W. WARD, Springfield, Mo., assignor of one-quarter to Osker C. Haggard, Springfield, Mo. Filed Dec. 23, 1921. Serial No. 524,456. 1 Claim. (Cl. 5—12.)



In a device of the class described, a base; a central section mounted to swing on the base; end sections pivoted

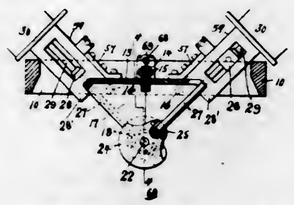
to the central section; shafts journaled on the end sections; supports mounted to rock on the central section; screws threaded in the supports; beveled pinions connecting the shafts with the screws; a shaft journaled on the central section; a support mounted to rock on the base; a screw threaded into the last specified support; a beveled pinion forming an operative connection between the last specified screw and the last specified shaft; and means for rotating the shafts.

1,428,463. ELECTRICAL CUT-OUT OPERATED BY FLUID PRESSURE. WALTER HENRY WELCH, Bristol, England, assignor to Harvey Frost & Company, Limited, London, England. Filed Mar. 1, 1920. Serial No. 362,176. 1 Claim. (Cl. 200—83.)



In a fluid pressure-operated electrical cut-out, the combination with a pressure member subjected to fluid pressure, and an electrical contact device comprising a movable contact member for controlling an electric circuit, of a bow spring having its central part operatively connected with said contact member, a screw positioning one end of the bow spring and arranged to thrust the central part thereof against said pressure member, a plate provided with a slot, a second screw positioning the other end of the bow spring and arranged to thrust the central part thereof against said pressure member, and an index arm that is rigidly attached to the said second screw, and extends into said slot, substantially as described.

1,428,464. STEAM ENGINE. JAMES D. WHITE and DIRA S. STOUT, Nallen, W. Va. Filed July 6, 1918. Serial No. 243,590. 2 Claims. (Cl. 121—120.)



1. In a motor, a crank shaft support including coacting sections formed of upper platform members and a plurality of supporting webs including outer webs in spaced relation depending from the platform members and engaging edge to edge and with bearings for the crank shaft at their lower ends, clamp members connected to the outer webs to bind the sections together, ribs extending upwardly from said platform members and engaging face to face, fastening devices operating through said ribs, cylinders in diverging relation, and cross head guides between said cylinders and supporting sections and connected thereto.

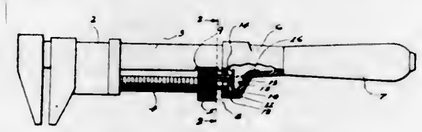
1,428,465. KNEECAP OR ELBOW BANDAGE. JAMES D. WILLMOTT, Philadelphia, Pa., assignor to William H. Horn & Brother, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 4, 1919. Serial No. 274,862. 5 Claims. (Cl. 128—165.)

1. A tubular fabric bandage having courses including encircling elastic elements and having an area from which said elements are omitted; with relatively non-elastic elements extending circumferentially of the bandage across



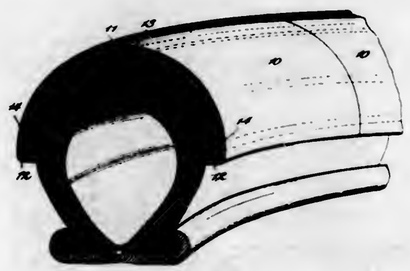
said area and tying together the substantially opposite portions of the elastic elements.

1,428,466. WRENCH. GUY AYERS, Libertyville, Ill. Filed Oct. 30, 1920. Serial No. 420,760. 1 Claim. (Cl. 81—171.)



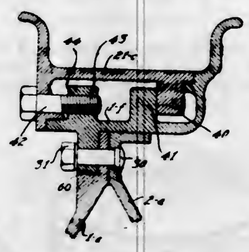
A wrench comprising a stationary jaw, a movable jaw thereon, a hollow handle connected to the stationary jaw and having a hollow projection, a screw having one end mounted in the movable jaw and the other end mounted in the projection, a nut on the screw having one end provided with serrations, a pin slidably supported by the projection and engaging the serrations, and a V-shaped leaf spring having one arm arranged vertically and pressing against said pin and the other arm resting flat against one wall of the projection, said spring being further provided with an extension extending into and lying in flat contact with the inner surface of the handle.

1,428,467. ARMOR FOR TIRES. STEPHEN ANDREWS, New York, N. Y. Filed Jan. 3, 1921. Serial No. 434,567. 2 Claims. (Cl. 152—16.)



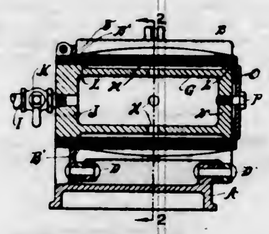
1. An armor for pneumatic tires comprising interconnected sections disposed normally end to end in continuous relation, and elastic bands extending through the sections permitting relative movement of the sections with respect to each other.

1,428,468. WHEEL CONSTRUCTION. BURTON R. BOLENBAUGH, CYRUS BOLENBAUGH, RAY S. BOLENBAUGH, and LAURENCE W. LONG, Jackson, Mich., assignors of one-third to said Burton R. Bolenbaugh, said Cyrus Bolenbaugh and said Ray S. Bolenbaugh, one-sixth to said Long, one-sixth to Arthur Paulson, New York, N. Y., one-sixth to Hugh E. Keeler, Ann Arbor, Mich., and one-sixth to Lewis H. Flynn, Albany, N. Y. Original application filed Oct. 2, 1920, Serial No. 414,200. Divided and this application filed February 19, 1921. Serial No. 446,491. 1 Claim. (Cl. 301—11.)



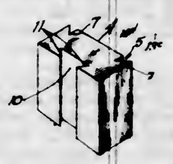
In a wheel structure, the combination of a rim having an inwardly-extending, radial flange disks having outer side by side portions alongside said projection, one of the disk portions rabbeted to receive the said projection and the said other disk portion flanged to bear against the inner surface of the rim, and transverse bolts extending through and connecting the said rim flange and disk portions.

1,428,469. METHOD OF AND MACHINE FOR MANUFACTURING PAPER BARRELS. ROBERT S. BOLGER, Richmond Hill, N. Y. Filed July 14, 1919. Serial No. 310,784. 19 Claims. (Cl. 93—81.)



1. In a barrel body bilging machine, the combination of outer and inner forms between which the barrel body wall is adapted to be shaped under pressure, the inner form embodying a resilient wall held at both ends, the outer wall being bilged and non-resilient.

1,428,470. WALL CONSTRUCTION. EDWARD R. BRAINERD, Los Angeles, Calif. Filed Mar. 24, 1921. Serial No. 455,003. 3 Claims. (Cl. 72—30.)



1. A building block having one surface provided adjacent to its edges with substantially V-shaped grooves that are adapted to receive the wedge-shaped ends of wall panels, and there being a dovetail recess formed in another surface of said block adapted to receive plastic binding material in order to form an interlocking joint with an adjacent similar block.

1,428,471. VALVE-SPRING LIFTER. FRANK M. BUTLER, Elko, Nev. Filed Apr. 27, 1920. Serial No. 376,948. 2 Claims. (Cl. 29—86.3.)



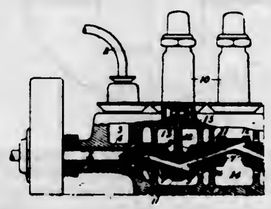
1. A valve lifter comprising two levers pivotally connected intermediate their ends, one of said levers being curved upwardly towards each end, from the pivot point, to form a recess adjacent the pivot, and a ring normally received in the recess but adapted to be slid towards either end of the levers.

1,428,472. LOADING APPARATUS. FRED L. CATE, Detroit, Minn. Filed Apr. 29, 1921. Serial No. 465,390. 5 Claims. (Cl. 198—10.)



1. In an apparatus for the purpose set forth, a self-propelled truck, an excavating mechanism suspended forwardly of and from one end of said truck and including excavating and shoveling elements to excavate and shovel rearwardly the excavated material, an elevating conveying mechanism mounted on the forward end of said truck and projecting rearwardly from below the rear of said mechanism for receiving material therefrom, a loading conveyor projecting rearwardly from the rear end of the said elevating mechanism, means for propelling the truck, operative drive connections between said means and said mechanisms, and means for adjusting said excavating mechanism in a vertical direction, and means for adjusting said elevating conveyor mechanism at angle inclinations with respect to said excavator mechanism and truck.

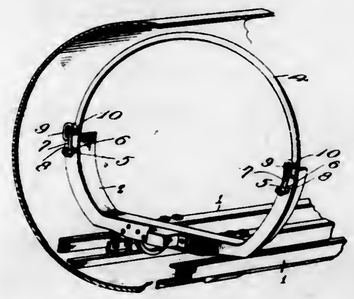
1,428,473. COMPRESSION PUMP. LEUIG CHEW and WILLIAM FREDERICK JENNINGS, London, England. Filed June 9, 1922. Serial No. 567,163. 3 Claims. (Cl. 230—27.)



1. In a compressor of the kind employed for refrigerating purposes, the combination of cylinders, pistons therein, a crank case communicating with the cylinders, bear-

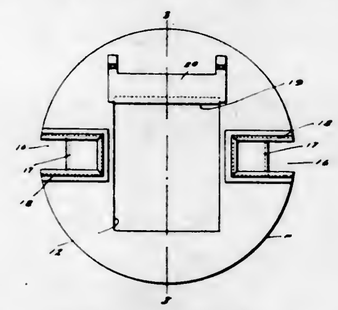
ings in the crank case, a crank shaft journaled in said bearings and having an induction passage extending therethrough and opening into the crank case, connecting rods coupled to the crank shaft for driving said pistons, said crank shaft having transverse holes leading from the induction passage to the bearings, a stuffing box for the crank shaft at one end of the crank case, a chamber in communication with said stuffing box and in connection with a source of gas and oil supply from the evaporator side of the refrigerating machine, and an annular chamber communicating with the stuffing box and the first mentioned chamber and also being in connection with the induction passage in said crank shaft, substantially as described.

1,428,474. BAIL FOR TIMBER CARS. JESSE C. COOK, Jeffersonville, Ind., and HAROLD E. AUSTIN, Louisville, Ky., assignors to American Creosoting Company, Louisville, Ky., a Corporation of Indiana. Filed Sept. 28, 1921. Serial No. 503,815. 4 Claims. (Cl. 280—179.)



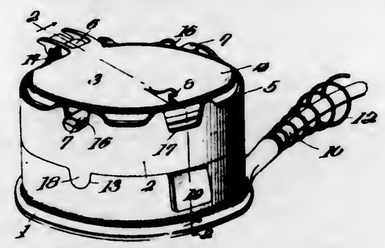
1. Bails for detachable engagement with the end sills of timber cars for wood impregnating cylinders having angularly disposed ends adapted to interlock with said end sills, a laterally projecting ear adjacent each of said angular ends and a pin in linked engagement with each ear and adapted for locking connection with the angular end of said bail.

1,428,475. MILK PAIL. GUY CORTLAND COOLIDGE, Seattle, Wash. Filed Sept. 6, 1921. Serial No. 498,734. 1 Claim. (Cl. 31—14.)



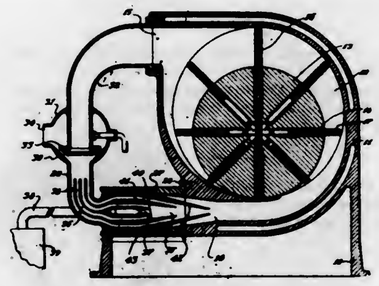
As a new and improved article of manufacture; a milk pail cover having an enlarged central opening, an inclined wall projecting downwardly from one edge of the opening and secured at its upper end thereto, a foraminated wall vertically arranged and rising from the lower end of said inclined wall and secured at its upper end to the opposite edge of the opening on the lower surface of said cover, vertically disposed side walls secured to the opposing side edges of the above mentioned walls and the side edges of the opening respectively, said walls formulating a substantially V-shaped chamber beneath said cover for the collection of foreign matter and the foraminated wall being adapted as an entrance to the pail, a plate adapted to normally cover the foraminated wall for protection thereof, a flange formed on said plate at a right angle thereto and designed to be hingedly secured to the upper surface of the cover adjacent the secured end of said foraminated wall and means associated with the edges of said cover to adjust the size thereof relatively to different size pails.

1,428,476. WAFFLE IRON. PATRICK F. CROSSAN, Allentown, Pa., assignor of one-half to William J. Ward, Allentown, Pa. Filed Mar. 16, 1922. Serial No. 544,293. 3 Claims. (Cl. 53—10.)



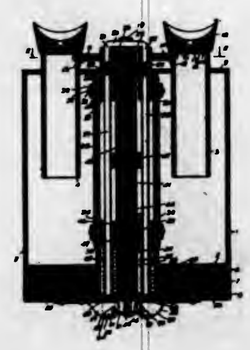
1. In combination with a waffle iron including a base and a two part hinged griddle adapted to be supported by said base for turning movement thereon, said base having recesses for the trunnions of the griddle and cut outs to receive and support the hinge of the griddle, means for superimposing the griddle on said base comprising a ring-like support having downwardly projecting tongues fitting within the recesses of said base, and ears overlapping said cut outs and frictionally engaging such base, said support having recesses for the trunnions of the griddle and cut outs to receive and support the hinge of the griddle.

1,428,477. ROTARY STEAM ENGINE. JOSÉ DEL MORAL, East Orange, N. J. Filed Oct. 2, 1920. Serial No. 414,189. 10 Claims. (Cl. 60—39.)



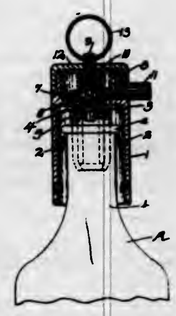
1. In an engine of the class described, a chamber having an inlet port and an exhaust port, a rotor operating within said chamber, a combining mixing apparatus or injector associated with said inlet port, a fluid supply pipe communicating with said injector, means for conveying the exhaust from the engine to said mixing chamber for further use, and relatively movable mixing blades arranged within the chamber and at opposite side of said steam nozzle.

1,428,478. FIELD GLASS. EVERETT K. DUNNE, Oneonta, N. Y. Filed Mar. 25, 1921. Serial No. 455,418. 6 Claims. (Cl. 88—35.)



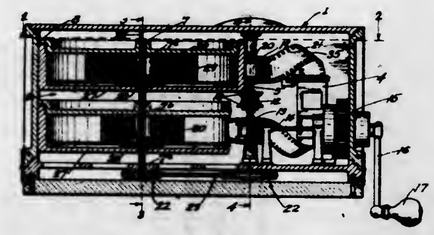
1. In a device of the character described, a U-shaped pivoting member, a pair of barrel sections pivotally connected to said U-shaped member, an auxiliary barrel section telescoping into each of the first mentioned barrel sections, means for rockably connecting the auxiliary barrel sections to said U-shaped member, and means for permitting the same to move in or out of said first mentioned barrel sections, said auxiliary sections being centrally arranged in said first mentioned barrel sections.

1,428,479. NONREFILLABLE-BOTTLE CAP. PAUL FUZY, Sheridan, Pa. Filed Feb. 21, 1921. Serial No. 446,680. 1 Claim. (Cl. 215—18.)



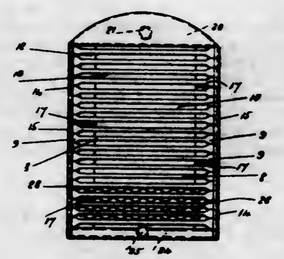
In a device of the character described, a body provided adjacent to its upper end with a web element dividing the body into an upper and a lower compartment, upwardly and inwardly inclined resilient members mounted within the lower compartment of the body, a tubular member depending from said web element and adapted to fit into the neck of the bottle, a valve mounted in the upper compartment of the body and adapted to close the upper end of said tubular member, a cover member secured on the upper end of the body, a rod slidable through said cover member, a disc secured on the lower end of the rod and positioned to press upon said valve so as to hold the same seated, and an expansion coil spring confined between said disc and the cover member.

1,428,480. FILM MAGAZINE FOR MOTION-PICTURE CAMERAS. ROLAND J. GIROUX, Los Angeles, Calif. Filed Nov. 11, 1920. Serial No. 423,348. 2 Claims. (Cl. 88—17.)



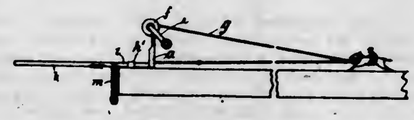
1. A motion picture camera comprising film reels disposed in planes parallel to each other, a film guide having its ends arranged in the same planes as the reels, and a film wound from one reel to the other and having its intermediate portion extended through the film guide.

1,428,481. RADIATOR. CHARLES W. GROSS, Napa, Calif. Filed Dec. 14, 1920. Serial No. 430,639. 5 Claims. (Cl. 257—131.)



1. In a radiator, a series of superposed tubular units, each unit being rectangular in cross-section and relatively broad in proportion to its depth, said units having end portions which are deeper than their main portions and which are stacked one above another, thereby forming horizontal air passages between the said main portions, the said end portions being open at each end and the said main portions having flat and parallel upper and lower sides between the said end portions, and vertical side chambers secured over the ends of the tubular units and operating to distribute the cooling fluid to them.

1,428,482. GAME APPARATUS. JOHN HAMPSON, London, England. Filed July 7, 1921. Serial No. 483,043. 6 Claims. (Cl. 46—56.) (Granted under the provision of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



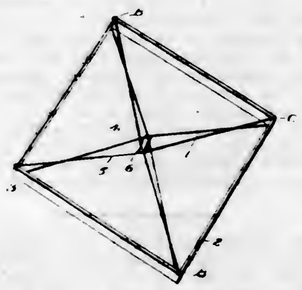
1. Apparatus for playing race games, comprising in combination a stirrup shaped fitting carrying a rotatable spindle provided at one end with a handle and having a portion of its length formed as an irregular surface, a flexible member attached to a model and at one end to said spindle and supporting means for said fitting permitting the same to be manipulated in a horizontal plane during rotation of the spindle.

1,428,483. PUMP. LEWIS H. HANEY, Los Angeles, Calif., assignor to Standard Deep Well Company, Los Angeles, Calif., a Corporation of California. Filed June 20, 1921. Serial No. 478,990. 2 Claims. (Cl. 103—90.)



1. A pump comprising a casing formed of sections, a pair of coupling sleeves connecting the confronting ends of adjacent sections, one of said sleeves exceeding in diameter that of the sections and tapered in one direction from a point substantially medially of its ends, the other sleeve being relatively short and tapered from the first sleeve to the adjacent section, a plurality of vanes disposed radially within and formed integarily with the short sleeve, a bearing sustained axially within the sleeve by said vanes, a shaft journaled in the bearing, and an impeller fixed to the shaft and disposed within the first sleeve.

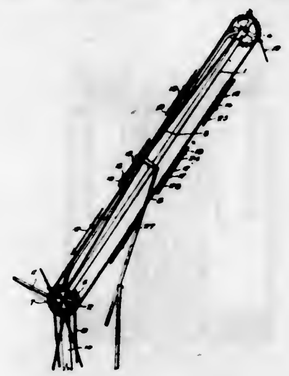
1,428,484. BRACE. SANDER LANKHEET, Hamilton, Mich. Filed May 24, 1920. Serial No. 383,976. 1 Claim. (Cl. 189—34.)



A brace comprising a frame, wires secured to said frame at its corners and crossing each other at their center at an angle, a tensioning pin having intersecting slots in each end for receiving said wires therein, said pin being of a predetermined length to separate the wires into sets and hold them under tension, and elements securing the ends of said wires to said frame.

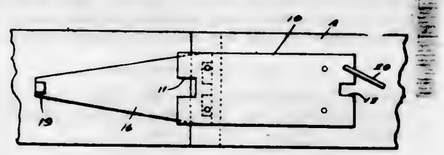
1,428,485. ELEVATOR. SANDER LANKHEET, Hamilton, Mich. Filed Sept. 18, 1920. Serial No. 411,031. 4 Claims. (Cl. 198—179.)

1. In an elevator construction, a traveling chain, rotary sprockets for moving said chain, hooks pivotally connected to the chain at spaced points, and clips secured to the chain at spaced points, said clips adapted to en-



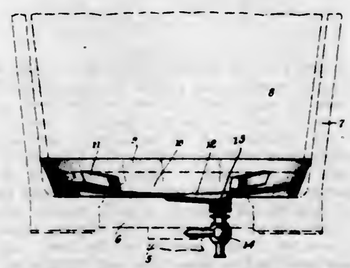
gage the adjacent hook during travel of the clips about the sprockets for moving the hooks into loading and unloading positions.

1,428,486. RIM EXPANDER AND LOCK. THOMAS F. LAWTER, Newcastle, Ind. Filed Oct. 18, 1920. Serial No. 417,618. 1 Claim. (Cl. 301—33.)



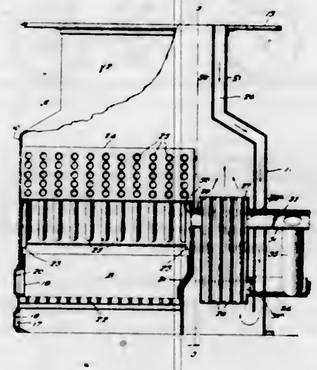
Means for expanding and locking a split rim comprising a plate secured upon the inner periphery of the rim at one side of and projecting beyond the split, said plate being formed at each end with a rectangular recess, a block secured upon the opposite side of the split, a leaf hinged upon said block and carrying a lug adapted to be engaged within the recess adjacent the split and formed at its free end with a lug engageable within the other recess, and a latch member pivoted upon the plate at the end remote from the split and engageable transversely over the leaf when the latter is swung into engagement with the plate.

1,428,487. SAUCER. DORR FRANKLIN LOUDON, New York, N. Y. Filed Nov. 2, 1921. Serial No. 512,366. 3 Claims. (Cl. 47—19.)



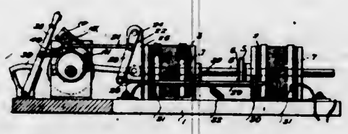
1. A saucer, including a side wall, and a base, the lower edges of said side wall extending to points below the point of connection of the base with said side walls, said base having its upper face curved downwardly towards the central point and being formed with a groove in its upper face, the base of said groove being inclined away from said central point and terminating in an opening at its opposite end.

1,428,488. FURNACE. DENNIS J. MCNERNEY, Portland, Oreg. Filed Mar. 22, 1921. Serial No. 454,345. 4 Claims. (Cl. 126—109.)



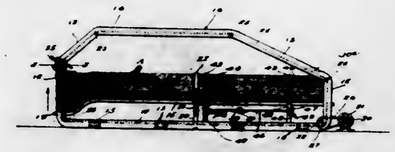
1. A furnace comprising an outer casing, a fire box including a relatively small casing having an open top, a plurality of heating drums or units closing said top, an additional heating drum or unit arranged at the rear of the fire box and communicating therewith, cold air ducts arranged within the outer casing, a smoke pipe leading from the additional heating drum, and a damper in said pipe.

1,428,489. ELECTRIC ENGINE. HARRISON MACE, Sidewood, Saskatchewan, Canada. Filed Feb. 6, 1920. Serial No. 356,723. 1 Claim. (Cl. 172—126.)



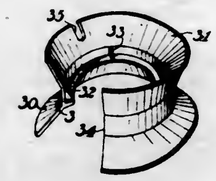
An electric engine comprising in combination a pair of electro-magnets having their cores provided with guide bores, a rod having its end portions slidable through said bores, an armature secured upon said rod and movable between the magnet cores, a support, a crank shaft journaled through said support and having a crank portion, a link connected with said rod and with said crank portion, a magnet controlling circuit including two contacts, and a reciprocatory switch bar adapted to contact therewith alternately, an eccentric cam on said shaft, a strap encircling said cam and having an arm, a guide pivoted upon said support, a slide movable within said guide and pivotally connected with said arm, a rod connected with said arm and with said reciprocatory switch bar, and means connected with said guide whereby to reverse its position for bringing the switch bar initially in engagement with either of said contacts, said means comprising a pivoted lever, a link connected with said lever and with said arm, and a notched segment moved over by the lever and adapted to hold the latter in selected position.

1,428,490. BUG-DISPLAY DEVICE. ISRAEL MALASKY, Johnstown, Pa. Filed Oct. 31, 1921. Serial No. 511,618. 4 Claims. (Cl. 211—22.)



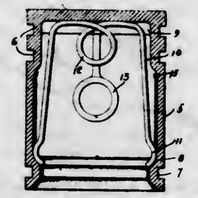
1. A display device of the character described comprising a pair of end frames of channel iron formation, a platform located between said frames for supporting a pile of rugs in normally superposed relation, elongated bars to be secured upon all the rugs at one end thereof and having their ends projecting into said channel frames, sprockets within said channeled frames, endless chains trained about said sprockets and simultaneously driven, and gripping members carried by said chains for engagement with the successive bars comprising shank members slidably associated with the chains, blocks carried by said shank members, and heads slidably associated with the block members and having cam noses.

1,428,491. ATTACHMENT FOR MILK-CAN-WASHING MACHINES. CHARLES A. MUSGRAVE, Seattle, Wash., assignor of one-half to A. N. Hendry, Seattle, Wash. Filed Feb. 5, 1921. Serial No. 442,705. 6 Claims. (Cl. 141—7.)



1. An attachment for milk can washing machines for handling small sizes of cans comprising a sleeve adapted to be placed upon the normal can supports and to receive the neck of the smaller sizes of cans, the ends of said sleeve being flared outwardly.

1,428,492. PISTON. VICTOR W. PAGÉ, New York, N. Y. Filed June 7, 1921. Serial No. 475,595. 8 Claims. (Cl. 74—108.)



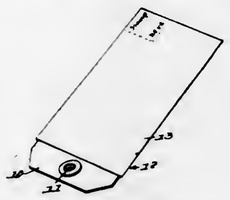
1. A piston having oppositely disposed resilient portions, and inverted U-shaped resilient member positioned within the piston and adapted to engage the resilient portions thereof to expand them relatively to the remainder of the piston.

1,428,493. LACE FASTENER. JOSEPH FRANCOIS PARADIS, Montreal, Quebec, Canada, assignor of one-half to Rene Chiquette, Montreal, Quebec, Canada. Filed Apr. 6, 1922. Serial No. 550,174. 1 Claim. (Cl. 24—122.)



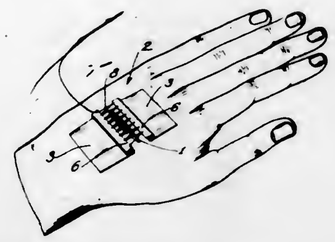
A lace fastener comprising a hook having widely spread eye bars converging to a central hook, the latter forming a lace fastening loop with said eye bars at the point of convergence of slightly less dimensions than a lace and extending on the same plane as the outer surface of said eye bars and outturned at the point.

1,428,494. PARCEL-POST-ENVELOPE TAG. WILLIAM BAUGHMAN PERRIN, Koshkonong, Mo. Filed Feb. 26, 1920. Serial No. 361,445. 1 Claim. (Cl. 229—74.)



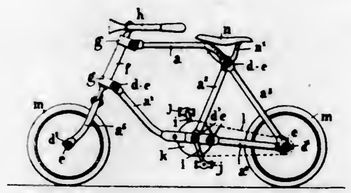
A parcels post envelope tag consisting of a tag stub provided with means for attachment to a parcel, and a sheet consisting of a main fold and lateral flaps foldably related with the main fold, the main fold at one end being secured to the stub and the lateral flaps being attachable to the stub when folded, and a fastening flap formed with the main fold at the opposite end from the stub and having adhesive applied to its edges for securement on top of the lateral flaps.

1,428,495. ZINC-OXIDE ADHESIVE PLASTER. OWEN F. RADCLIFFE, Los Angeles, Calif. Filed Dec. 22, 1920. Serial No. 432,515. 1 Claim. (Cl. 128—335.)



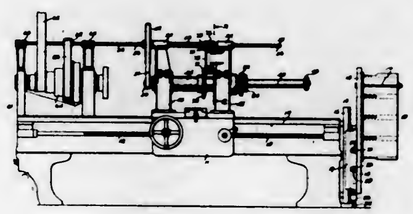
A plaster comprising a pair of adhesive strips having their confronting edges folded upon themselves to form grooves co-extensive in width with the strips and terminal flaps at the upper sides of the strips, flexible stiffening members within the grooves, and a lacing member engaging the flaps for drawing the strips toward each other, securing the flaps in overlapped relation and the stiffening members in spaced relation to each other.

1,428,496. CONSTRUCTIONAL TOY. JEAN LÉON LOUIS ROQUEFORT-VILLENEUVE, Paris, France. Filed Sept. 16, 1920. Serial No. 410,765. 3 Claims. (Cl. 208—106.)



1. A toy cycle comprising a tubular member, bars extending rearwardly from said tubular member, collars surrounding said tubular member and having ears, fastening devices extending through the ends of said bars and through said ears, and a steering rod rotatably extending through said tubular member.

1,428,497. GRINDING DEVICE. CHARLES SHLAGEL, Clara City, Minn. Filed Aug. 13, 1921. Serial No. 492,049. 6 Claims. (Cl. 51—48.)

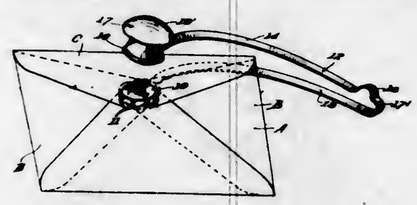


1. A grinding attachment for lathes comprising a support arranged for attachment to a lathe carriage, a work holder arranged for attachment to the tail end of a lathe and adapted to support a cylinder to be ground, an arbor carrying a grinding wheel adapted to grind the interior surface of the cylinder, an arbor supporting tube in which the arbor is journaled, a hollow shaft journaled in the said support and within which the said arbor supporting tube is divergently mounted, a driving shaft adapted to be driven from the lathe arbor, a sleeve mounted to slide on and to turn with the said driving shaft, the said sleeve being journaled in the said support, fast speed driving means connecting the said sleeve with the said arbor to rotate the latter at a high speed, and slow speed driving means connecting the said sleeve with the said hollow shaft to rotate the latter at a slow speed.

1,428,498. ENVELOPE-FASTENER-APPLYING DEVICE. ANTHONY TELLI, Washington, D. C. Filed Oct. 14, 1919. Serial No. 330,538. Renewed Feb. 2, 1922. Serial No. 533,672. 1 Claim. (Cl. 1—4.)

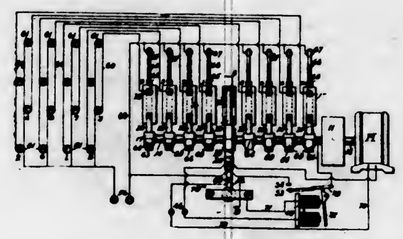
A device for applying fasteners for affixing envelope flaps and sheets formed of a single piece of metal bent back upon itself to form a pair of superposed shanks and an integral connecting resilient bight portion, the shanks being curved arcuately, an enlarged flattened head formed on one of the shanks to form an anvil, an enlarged flat

tened flange head formed on the outer end of the other shank, a weighted hammer head fitted in said flanged



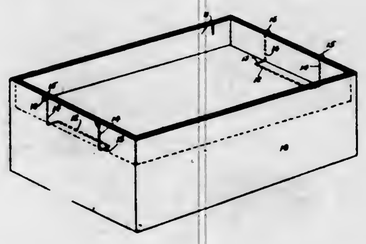
head, and an integral resilient outstruck shock absorbing bight portion formed in the shank that carries the hammer head.

1,428,499. SIGN FLASHER. JOHN H. WHEELOCK, Worcester, Mass. Filed May 11, 1917, Serial No. 168,018. Renewed Feb. 6, 1922. Serial No. 534,589. 9 Claims. (Cl. 177—346.)



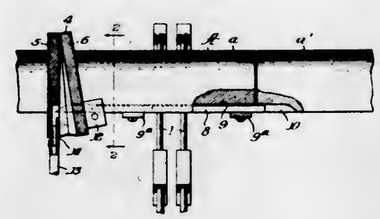
8. In a system of the class described, the combination of a source of power, a circuit connected to the terminals thereof, a shaft, a controlling element and a master wheel on said shaft, means for closing contacts in said circuit by said controlling element upon the rotation of said shaft, means for thereafter closing other contacts in said circuit to complete the latter upon a predetermined rotation of said master wheel and means for thereafter shunting the circuit around said controlling element and breaking connections at the latter.

1,428,500. TRAY SUPPORT FOR BOXES. WILLIAM L. BUEDINGEN, Milwaukee, Wis. Filed July 12, 1919. Serial No. 310,377. 5 Claims. (Cl. 248—20.)



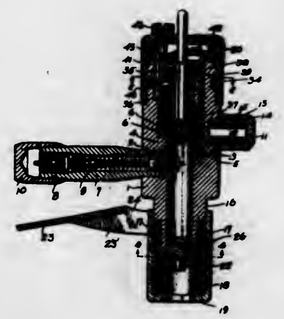
1. A box tray support comprising means for supporting a tray within a box, and means carried thereby and releasably engageable with the top edge of the tray to secure the same upon said support.

1,428,501. PNEUMATICALLY-OPERATED MUSICAL INSTRUMENT. ADOLPH P. GUSTAFSON, Chicago, Ill., assignor to M. Schulz Company, Chicago, Ill., a Corporation of Illinois. Filed June 26, 1920. Serial No. 391,898. 8 Claims. (Cl. 84—35.)



1. The combination with a transversely divided hammer rail, of means for connecting the adjacent ends of the separate sections together.

1,428,502. TIRE-PRESSURE-GAUGE CONNECTION. OSWALD H. HANSEN, New York, N. Y. Filed Mar. 26, 1921. Serial No. 455,733. 4 Claims (Cl. 285—164.)

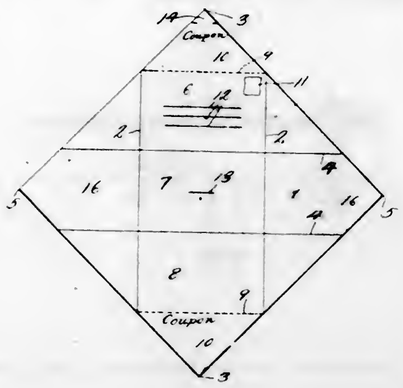


1. In a coupling of the class described, a casing, a sleeve slidable on the lower end of the casing and including an internal flange at its lower end, a resilient collar interposed between said flange and the end of said casing, a cam lever pivotally connected to the sleeve and fulcruming on the casing to slide said sleeve and positively effect internal bulging of said collar, said casing having an annular groove therein, said lever including arms straddling the casing and fulcruming on the bottom wall of said groove, and said arms being pivotally connected to said sleeve.

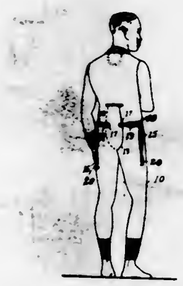
1,428,503. LETTER SHEET. MALCOLM G. MAJOR, Washington, D. C. Filed July 22, 1921. Serial No. 486,767. 3 Claims. (Cl. 229—92.7.)

3. A letter sheet comprising a square blank having central, upper and lower panel sections of the same dimensions, coupon sections at the top and bottom respectively of

the upper and lower sections, corner portions flanking the central, upper and lower sections, and the said central section having a slit disposed centrally thereof and parallel with the adjoining edges of the central and upper and lower sections.



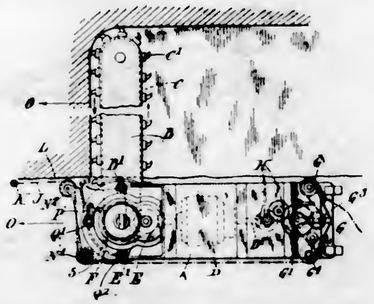
1,428,504. UNION SUIT. THOMAS HENRY SMITH, Jamestown, N. Y. Filed Mar. 23, 1921. Serial No. 454,639. 2 Claims. (Cl. 2—144.)



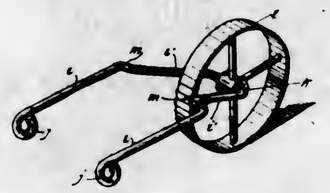
1. In combination with a garment having overlapping parts with free outer sides, a cord for each part doubled between its ends to form parallel portions that are affixed at the doubled end to the part, relatively short fabric members affixed to the garment adjacent to the respective free sides of the overlapping parts to provide a pair of parallel spaced guides which frictionally receive the respective parallel portions of the cords, the free ends of the respective cords being tied together at points beyond the fabric members so as to engage the outer ends thereof at points between the parallel guides to thereby restrict the extent of inward movement of the cords relative to the guides.

1,428,505. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 11, 1918. Serial No. 266,318. 21 Claims. (Cl. 262—30.)

1. In a mining machine, a casing, a laterally extending cutter bar at one end thereof, feeding mechanism on the opposite end of said casing, guiding means disposed on said casing adjacent said bar and the face, and a flexible feed member cooperating with said feeding mechanism and having a transversely extending portion engaging said guiding means.

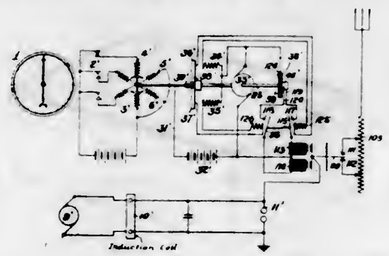


1,428,506. WHEEL-SUPPORT ATTACHMENT FOR DRAG SAW. EMIL G. KREBS, Tillamook, Oreg. Filed May 11, 1920. Serial No. 380,539. 1 Claim. (Cl. 280—61.)



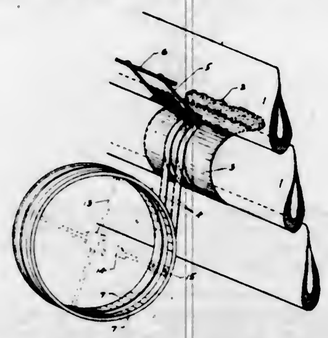
In combination with a supporting frame of the character described, provided with lateral handle bars, a wheel supporting attachment comprising, a substantially U-shaped frame, the free ends of the sides of which are provided with eyes for securing on said handle bars, the closed end of the sides being adapted to constitute a transverse axle portion, a wheel mounted on the latter, said sides being provided with offset portions constituting shoulders adapted to bear against and support said frame, said sides converging beyond said shoulders towards said axle portion to hold the wheel centrally between the sides.

1,428,507. WIRELESS REPEATER SYSTEM. ELMER A. SPERRY, Brooklyn, N. Y. Filed Mar. 12, 1920. Serial No. 365,144. 12 Claims. (Cl. 250—2.)



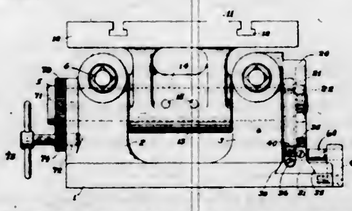
1. In combination, a pair of step-by-step repeater motors, and wireless means for causing one of said motors to follow the movements of the other of said motors in either of opposite directions.

1,428,508. METHOD OF MAKING SEMISOLID TIRES. REGINALD H. WATERS, Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 6, 1921. Serial No. 490,293. 4 Claims. (Cl. 154—12.)



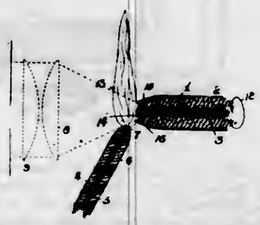
1. The method of producing a tire of the class described comprising the following steps: (*a*) winding a bifurcated strip upon an annular rim on either side of an annular support to the depth of said support; (*b*) continuing the winding with a unitary strip to the completion of the operation; (*c*) vulcanizing the structure; (*d*) removing the annular support.

1,428,509. ANGLE BLOCK. WILLIAM H. WEINGAR, West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 25, 1920. Serial No. 361,366. 23 Claims. (Cl. 90—59.)



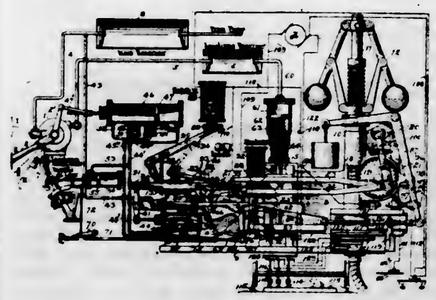
1. A device comprising in combination, a base plate, an angle member mounted thereon, a slide mounted in said base plate, and means connecting said angle member and slide whereby movement of said slide relative to said base plate is proportional to the angular movement of said angle member.

1,428,510. CONCENTRATED FLAMING ARC LAMP FOR PROJECTORS. PRESTON R. BASSETT, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed June 26, 1920. Serial No. 391,973. 9 Claims. (Cl. 176—51.)



1. The method of producing a concentrated flaming arc without the employment of high current density and rapid electrode consumption, which consists in employing a positive carbon having a small, highly mineralized core of as high diameter ratio to the shell as 1:4 and a negative electrode of less diameter than the positive and operating such arc at ordinary current density.

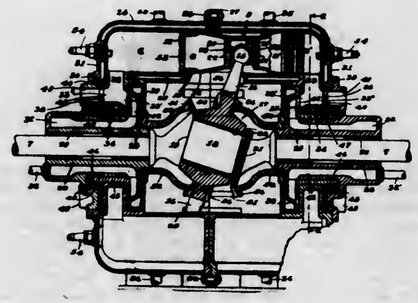
1,428,511. AUTOMATIC TRAIN-CONTROL DEVICE. HARRY G. DAVIS, Philadelphia, Pa. Filed Sept. 21, 1914, Serial No. 862,754. Renewed July 21, 1922. Serial No. 576,650. 80 Claims. (Cl. 246—66.)



12. In an apparatus of the character described the combination with an air brake mechanism capable of adjustment to "running" "service" and "lap" positions, of fluid pressure operated means to automatically adjust said air brake mechanism from "running" position to "service" position and thence to "lap" position substantially as specified.

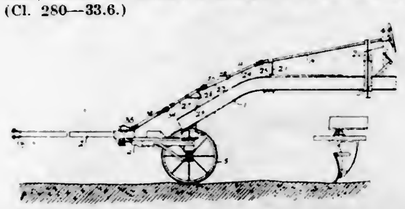
REISSUES.

15,442. INTERNAL-COMBUSTION ENGINE. JOHN O. ALMEN, Seattle, Wash., assignor to Almen-Crosby Motors Co., Inc., Seattle, Wash., a Corporation of Washington. Filed Sept. 17, 1917. Serial No. 191,876. Original No. 1,233,635, dated July 17, 1917, Serial No. 114,982, filed Aug. 15, 1916. 12 Claims. (Cl. 123—58.)



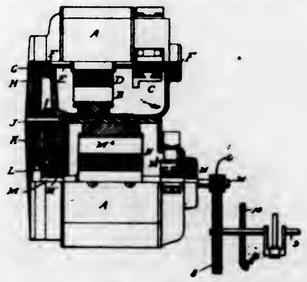
1. In an engine, a driving shaft, a plurality of parallel cylinders disposed concentrically about said shaft, passages at both ends of the cylinders for the inlet of combustible charges and for exhausting the gaseous products thereof, pistons for the respective cylinders, a rocker-head mounted on said shaft for wabbling movements, operative connections between the rocker-head and each of the pistons, and between the ends of the latter, rotary valves for controlling the inlet and exhaust gases, and means engaging the rocker-head whereby the wabbling movements of the latter will effect the operation of said valves.

15,443. STEERING GEAR FOR ROAD MACHINES. FRANKLIN E. ARNDT, Galion, Ohio, assignor to The Galion Iron Works and Manufacturing Company, Galion, Ohio, a Corporation of Ohio. Filed May 9, 1918. Serial No. 233,580. Original No. 1,166,036, dated Dec. 28, 1915, Serial No. 48,483, filed Sept. 1, 1915. 6 Claims. (Cl. 280—33.6.)



3. In a road machine, laterally disposed frame bars, a front or steering axle, a draft pole oscillatable laterally relative to the axle, and means for moving said draft pole to different angular positions relative to the line of draft of the machine including an operating shaft comprising a plurality of flexibly connected sections, one of said sections intermediate the ends of the shaft being relatively short, and means for supporting said short shaft section comprising an oscillatable bracket disposed above the laterally disposed frame bars and having its axis of oscillation approximately coincident with the axis of oscillation of the tongue, the short shaft section being journalled for axial rotation within the bracket, the forward portion of said short shaft section, when the bracket is turned to carry the shaft section approximately at right angles to the line of draft, projecting beyond said frame bars.

15,444. ENGINE STARTER. FRANK E. FISHER, Detroit, Mich. Filed Apr. 2, 1917. Serial No. 159,336. Original No. 1,113,156, dated Oct. 6, 1914, Serial No. 749,783, filed Feb. 21, 1913. 10 Claims. (Cl. 290—36.)



10. An electric starting and current generating apparatus for use with internal combustion engines comprising an enclosing frame adapted to be suitably supported in the chassis of an automobile, a shaft rotatably mounted in said frame, a motor and a generator both connected to said frame, said shaft being in alinement with and having a direct connection with the rotary element of the generator, and speed reduction gearing, and a ratchet driving mechanism between said shaft and the rotary element of the motor, said gearing and ratchet driving mechanism being incased in said frame.

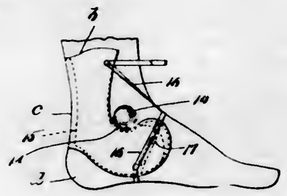
15,445. CHAIN CONNECTION. ALBERT P. GRIFFIN, Troy, N. Y., assignor of one-half to Arrow Grip Manufacturing Company, Inc., Glens Falls, N. Y., a Corporation of New York. Filed Apr. 21, 1922. Serial No. 555,902. Original No. 1,394,618, dated Oct. 25, 1921, Serial No. 459,382, filed Apr. 7, 1921. 9 Claims. (Cl. 24—232.)

1. A chain-connection comprising in combination a guard having a pair of trunnions on opposite sides of a circumferential flange, and provided with an open link-receiving slot along one side of said flange and trunnions; and a U-shaped link having terminals rotatively engaging



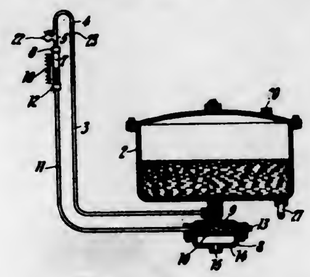
the respective trunnions and severally provided with link-receiving openings adapted to register with said open slot in one rotative position of said U-shaped link relatively to said guard.

15,446. ANKLE SUPPORTER. HARRY B. HAMILTON, New York, N. Y. Filed June 17, 1922. Serial No. 569,172. Original No. 1,397,095, dated Nov. 15, 1921, Serial No. 444,126, filed Feb. 11, 1921. 5 Claims. (Cl. 128—166.)



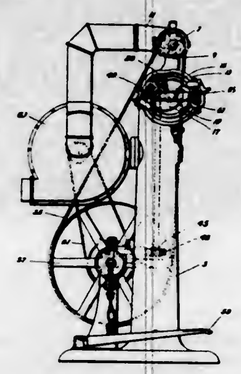
1. In an ankle supporter, in combination, a member to engage and support a thick portion of the side of the foot, and a filling member projecting from and beyond the inner surface of said member and arranged to engage and directly support a thinner portion of the foot adjacent to the ankle bone which is not directly supported by said member.

15,447. LIQUID LEVEL INDICATOR. ABRAHAM NOVICK, Brooklyn, N. Y., and EDWARD FISH, New York, N. Y., assignors to Ferdinand L. Smithe, New York, N. Y. Filed Dec. 28, 1921. Serial No. 526,628. Original No. 1,394,336, dated Oct. 18, 1921, Serial No. 441,722, filed Feb. 2, 1921. 8 Claims. (Cl. 73—54.)



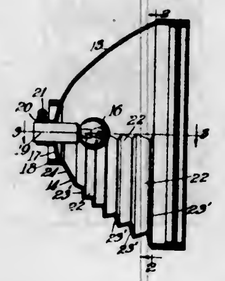
1. In a liquid level indicator a tank for holding the liquid to be gaged, means forming a chamber and having a yieldable diaphragm forming one wall of the chamber, a pipe connecting the bottom portion of said tank with said chamber and including a transparent portion, said chamber and that portion of said connecting pipe extending from said chamber to said transparent portion being filled with an indicating liquid, that portion of said pipe extending from said tank to said transparent portion being in the form of an inverted U-bend containing in that part thereof adjacent said tank liquid similar to that to be gaged, and a pressure transmitting fluid in the U-bend portion of said pipe between the levels of the two liquids.

15,448. HEEL GOUGING AND LIP-CUTTING MACHINE. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 13, 1922. Serial No. 543,510. Original No. 1,396,143, dated Nov. 8, 1921, Serial No. 262,295, filed Nov. 13, 1918. 23 Claims. Cl. 12—46.)



1. A machine of the class described, having in combination, a cutter, a holder for a heel, and power actuated means for causing the heel to be traversed by the cutter from a point near the rear of the heel to the breast thereof to form a gouge and for increasing the depth of the cut at the breast end to form a lip.

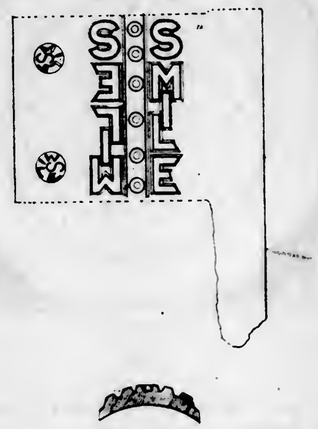
15,449. NONGLARE HEADLIGHT. CHARLES E. POST and PAUL G. WAGNER, Chicago, Ill., assignors to Frank E. Nellis, jr., Chicago, Ill. Filed Nov. 16, 1917. Serial No. 202,437. Original No. 1,189,621, dated July 4, 1916, Serial No. 87,047, filed Mar. 27, 1916. 11 Claims. (Cl. 240—41.)



1. In a non-glare headlight, the combination of a parabolic reflector having its upper half smooth and its lower half containing a plurality of concave reflector plates, said plates being portions of concentric spheres whose center is a point on the axis of the parabola slightly in advance of the focus thereof, and a light located at said point.

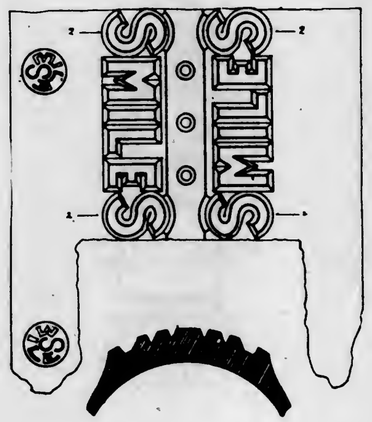
DESIGNS.

61,432. TIRE. HIRAM J. ANDRUS, Akron, Ohio. Filed Jan. 28, 1920. Serial No. 354,750. Term of patent 14 years.



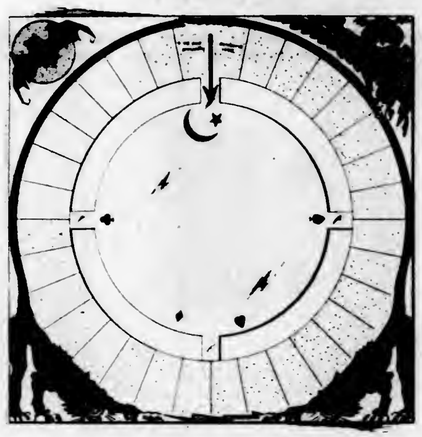
The ornamental design for a tire substantially as shown.

61,433. TIRE. HIRAM J. ANDRUS, Akron, Ohio. Filed Oct. 3, 1921. Serial No. 505,197. Term of patent 3½ years.



The ornamental design for a tire substantially as shown.

61,434. CHART FOR EDUCATIONAL GAMES. ALFRED Z. BAKER, Newark, N. J., assignor to Fulton Specialty Co., a Corporation of New Jersey. Filed May 18, 1921. Serial No. 470,613. Term of patent 14 years.



The ornamental design for a chart for educational games, as shown.

61,435. COMBINED BULLETIN AND TIME BOARD. IRA A. BURNETT, Chicago, Ill. Filed Dec. 23, 1921. Serial No. 524,505. Term of patent 7 years.



The ornamental design for a combined bulletin and time board, as shown.

61,436. WALL PAPER. EMILE ERICSON, New York, N. Y., assignor to Standard Wall Paper Co., Hudson Falls, N. Y., a Corporation of New York. Filed May 20, 1922. Serial No. 2,334. Term of patent 7 years.



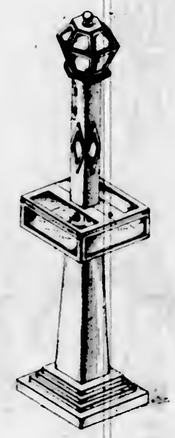
The ornamental design for wall paper, as shown.

61,437. FLAG. STANLEY GADOMSKI, Chicago, Ill. Filed May 31, 1922. Serial No. 2,475. Term of patent 7 years.



The ornamental design for a flag, as shown.

61,438. DISPLAY STAND. JACOB GOLDBERG, Philadelphia, Pa. Filed Jan. 26, 1922. Serial No. 364. Term of patent 14 years.



The ornamental design for a display stand as shown.

61,439. PLATE OR SIMILAR ARTICLE. WILLIAM D. HAVILAND, Limoges, France, assignor to Theodore Haviland & Co., New York, N. Y. Filed Dec. 2, 1921. Serial No. 519,529. Term of patent 14 years.



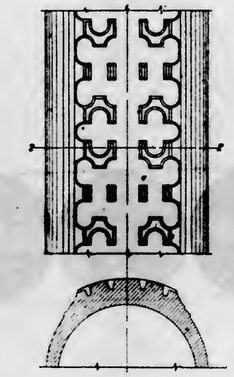
The ornamental design for a plate or similar article, as shown.

61,440. PLATE OR SIMILAR ARTICLE. WILLIAM D. HAVILAND, Limoges, France, assignor to Theodore Haviland & Co., New York, N. Y. Filed Dec. 2, 1921. Serial No. 519,530. Term of patent 14 years.



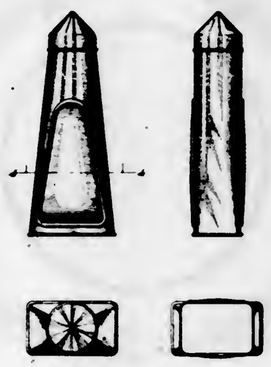
The ornamental design for a plate or similar article, as shown.

61,441. TIRE TREAD. EARL A. HECHT, Mansfield, Ohio. Filed Dec. 1, 1921. Serial No. 519,295. Term of patent 14 years.



The ornamental design for a tire tread as shown.

61,442. POWDER CONTAINER. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed Oct. 6, 1921. Serial No. 505,939. Term of patent 14 years.



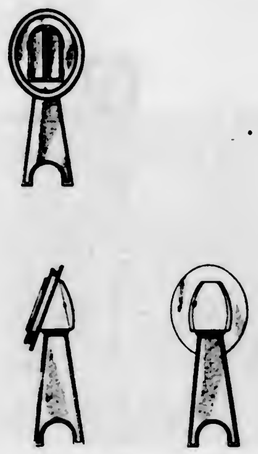
The ornamental design for a powder container, substantially as shown.

61,443. SIGNAL LENS PLATE. DELMAR LEWIS JOHNSON, St. Louis, Mo. Filed Dec. 12, 1921. Serial No. 521,939. Term of patent 7 years.



The ornamental design for a signal lens plate, as shown.

61,444. TELEPHONE CABINET. CHRIS A. MARTIN, Los Angeles, Calif. Filed Aug. 31, 1921. Serial No. 497,377. Term of patent 3½ years.



The ornamental design for a telephone cabinet as shown.

61,445. AVIATOR'S BADGE. HENRI MARVET, Houston, Tex., assignor to J. J. Sweeney Jewelry Co., Houston, Tex., a Corporation. Filed July 15, 1918. Serial No. 245,124. Term of patent 7 years.



The ornamental design for an aviator's badge, as shown.

61,446. CLASS RING. GEORGE A. MEELL, Philadelphia, Pa., assignor to Bailey, Banks & Biddle Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 9, 1922. Serial No. 2,141. Term of patent 7 years.



The ornamental design for a class ring, as shown.

61,447. PNEUMATIC-TIRE TREAD. OWEN MOYNIHAN, Cleveland, Ohio. Filed Apr. 8, 1920. Serial No. 371,160. Term of patent 7 years.



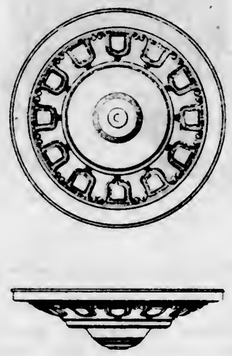
The ornamental design for a pneumatic tire tread, as shown.

61,448. FLOWERPOT. DANIEL RAYMOND, San Jose, Calif., assignor to Garden City Pottery Company, Inc., San Jose, Calif. Filed Dec. 20, 1921. Serial No. 523,785. Term of patent 14 years.



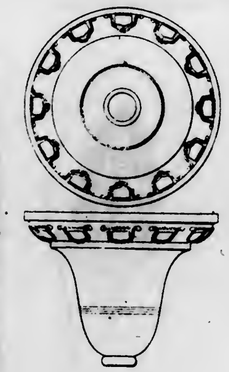
The ornamental design for a flower pot as shown.

61,449. CHANDELIER PLATE. MORRIS SCHLEPP, New York, N. Y. Filed Nov. 28, 1921. Serial No. 518,457. Term of patent 7 years.



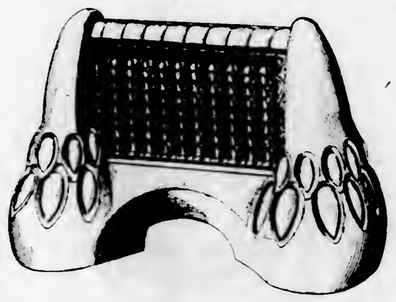
The ornamental design for a chandelier plate, as shown.

61,450. CEILING CANOPY. MORRIS SCHLEPP, New York, N. Y. Filed Nov. 28, 1921. Serial No. 518,458. Term of patent 7 years.



The ornamental design for a ceiling canopy, as shown.

61,451. GAS HEATER. GUSTAVE F. SCHMIDT, Chicago, Ill. Filed Dec. 23, 1921. Serial No. 524,501. Term of patent 7 years.



The ornamental design for a gas heater as shown.

61,452. EMBLEM OR BADGE. HOWARD E. SMART, Omaha, Nebr. Filed Oct. 14, 1921. Serial No. 507,800. Term of patent 14 years.



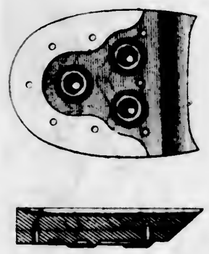
The ornamental design for an emblem or badge as shown.

61,453. RUBBER SOLE. DUDLEY M. TODD, Chicago, Ill., assignor to Dryden Rubber Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1922. Serial No. 685. Term of patent 14 years.



The ornamental design for a rubber sole as shown.

61,454. RUBBER HEEL. DUDLEY M. TODD, Chicago, Ill., assignor to Dryden Rubber Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1922. Serial No. 686. Term of patent 14 years.



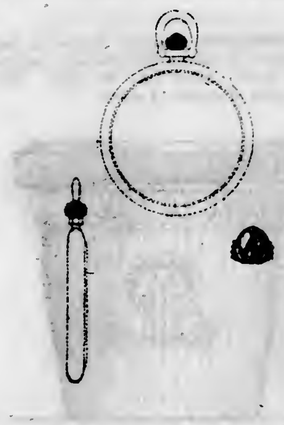
The ornamental design for rubber heel as shown.

61,455. RING. ALBERT VERBER, New York, N. Y. Filed May 5, 1922. Serial No. 2,093. Term of patent 7 years.



The ornamental design for a ring, as shown.

61,456. WATCHCASE CROWN. LOIS MCG. WILLIAMS, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed May 15, 1922. Serial No. 2,243. Term of patent 14 years.



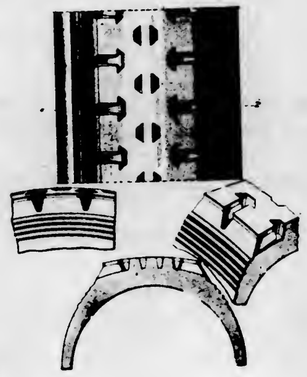
The ornamental design for a watchcase crown, substantially as shown.

61,457. ADVERTISING DEVICE. FRANK S. WOODROW, New York, N. Y. Filed Dec. 16, 1921. Serial No. 522,928. Term of patent 7 years.



The ornamental design for an advertising device, substantially as shown.

61,458. TIRE TREAD. PAUL WORTH, Akron, Ohio, assignor to The India Tire and Rubber Company, Mogadore, Ohio, a Corporation of Ohio. Filed July 10, 1922. Serial No. 3,025. Term of patent 14 years.



The ornamental design for a tire tread as shown.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 5, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 117,379. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WILLIAM G. HENNENHOFER, doing business as Savage Grip Sales Company, Denver, Colo. Filed Apr. 11, 1919.

SAVAGE-GRIP.

No claim is made to the word "Grip" apart from the mark as shown.

Particular description of goods.—Patches for Fabric Tires and Inner Tubes.

Claims use since 1919.

Ser. No. 120,909. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COCKATOO PRESERVES LIMITED, doing business as Manufacturers, Collingwood, Victoria, Australia. Filed July 25, 1919.



Trade-mark consists of the word "Cockatoo" and the representation of a cockatoo resting on a bough.

Particular description of goods.—Anchovy Essence (a Sauce Made from Anchovies), Coffee Essence, Coffee and Chicory Essence, Cheese, Chutney, Canned Fruits, Fruit Relish, Fruit Salad, Honey, Herbs, Jams, Jellies, Marmalade, Mushroom Catchup, Parisian Essence, Pickles, Preserved Fruits, Fruit Sauces, Tomato Catchup, Tomato Soup, Tomato Purée, Tomatoes (Canned), Vinegar, Banana Butter, Lemon Butter, Peanut Butter, Pineapple Butter, Raspberry Butter, and Vanilla Butter (a Compound Made from Butter, Eggs, and Flavoring, and Used as a Filling).

Claims use since Apr. 14, 1899.

Ser. No. 122,185. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) PITTSBURGH LAMP, BRASS & GLASS COMPANY, Pittsburgh, Pa. Filed Aug. 30, 1919.



No claim is made to the word "Pittsburgh" nor to the representation of the goods apart from the mark shown.

Particular description of goods.—Oil Stand Lamps, Oil Hanging Lamps, Portable Gas Lamps, and Oil Stoves.

Claims use since about Aug. 16, 1919.

Ser. No. 124,640. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BUOB AND SCHEU, Cincinnati, Ohio. Filed Nov. 7, 1919.

LIMO

Particular description of goods.—Automobile Tops and Curtains.

Claims use since Oct. 10, 1919.

Ser. No. 125,501. (CLASS 37. PAPER AND STATIONERY.) HIGHLAND MANUFACTURING COMPANY, Holyoke, Mass. Filed Dec. 2, 1919.

AUTHOR'S Linen

No exclusive claim to the use of the word "Linen."

Particular description of goods.—Writing, Typewriting, and Printing Papers, Papeteries; Writing, Correspondence, and Index Cards, and Writing Tablets and Pads.

Claims use since about July 2, 1919.

Ser. No. 125,502. (CLASS 37. PAPER AND STATIONERY.) HIGHLAND MANUFACTURING COMPANY, Holyoke, Mass. Filed Dec. 2, 1919.

Sharon Fabric

No claim is made to the exclusive use of the word "Fabric" apart from the mark as shown.

Particular description of goods.—Writing, Typewriting, and Printing Papers; Papeteries; Writing, Correspondence, and Index Cards, and Writing Tablets and Pads.

Claims use since about 1916.

Ser. No. 126,085. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILDER & COMPANY, Chicago, Ill. Filed Dec. 15, 1919.

Lion



Particular description of goods.—Sole Leather.

Claims use since Mar. 1, 1904.

Ser. No. 129,480. (CLASS 25. LOCKS AND SAFES.) STRONGHART COMPANY, Chicago, Ill. Filed Mar. 9, 1920.



Particular description of goods.—Small Portable Savings Banks and Safes.

Claims use since about Jan. 1, 1914.

Ser. No. 129,704. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EASTBAY CHEMICAL COMPANY, Emeryville, Calif. Filed Mar. 15, 1920.



Particular description of goods.—Insecticides, Fungicides, and Disinfectants.

Claims use since Apr. 15, 1919.

Ser. No. 131,675. (CLASS 37. PAPER AND STATIONERY.) TENNESSEE FIBRE CO., Memphis, Tenn. Filed Apr. 26, 1920.

LIGHTNIN

Particular description of goods.—Blotter Blocks or Pads for Desk Use in Blotting Ink.

Claims use since Dec. 9, 1919.

Ser. No. 137,512. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BONSUM BROS., New York, N. Y., and Jersey City, N. J. Filed Sept. 23, 1920.



Consists of a circular figure comprising a small central disk in a field of red surrounded by an adjoining broad circular surface of dark blue having superimposed thereon in white the words "Wonderful" and "Trade-Mark"; this broad circular surface of the dark blue being surrounded by a narrow band of dark blue separated from it by a narrow circular line of white, the narrow dark-blue band forming the inner edge or outline of an outer surrounding band of white, the extreme outer edge of which is of a dark-blue color. No claim made to the words "Trade-Mark" appearing on the broad dark-blue surface apart from the mark shown in the drawing.

Particular description of goods.—Metal Polish.

Claims use since 1900.

Ser. No. 138,047. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BURL L. GORTON, Battle Creek, Mich. Filed Oct. 7, 1920.

PROPHO

Particular description of goods.—Antiseptic or Prophylactic Ointment for Use as a General Antiseptic.

Claims use since Aug. 15, 1919.

Ser. No. 138,524. (CLASS 25. LOCKS AND SAFES.) BENJAMIN URICH, Milwaukee, Wis. Filed Oct. 19, 1920.

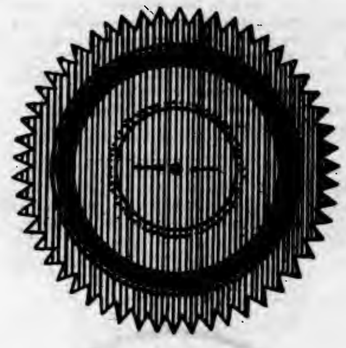
DEVIL'S COMBINATION MASTER KEY

No claim is made to the words "Combination Master Key" apart from the mark shown in the drawing.

Particular description of goods.—Keys.

Claims use since July 15, 1920.

Ser. No. 138,957. (CLASS 15. OILS AND GREASES.) THE RED "C" OIL MFG. CO., Baltimore, Md. Filed Oct. 29, 1920.



The seal being shaded to indicate red coloring.

Particular description of goods.—Illuminating Oils and Gasolene.

Claims use since the early part of 1908.

Ser. No. 139,892. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHARLES J. KERN, Buffalo, N. Y., assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y., a Corporation of New York. Filed Nov. 20, 1920.



The word "Toys" is disclaimed apart from the mark shown.

Particular description of goods.—Toys (Exclusive of Dolls)—Namely, Doll Wagons, Teeter Toys, Toy Building Blocks, Toy Blackboards, and Toy Furniture.

Claims use since Sept. 4, 1920.

Ser. No. 141,057. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BING WERKE VORM. GEBRÜDER BING A.-G., Nuremberg, Germany. Filed Dec. 14, 1920.

Arto-Modelmason

Particular description of goods.—Toys, Particularly Boxes with Building Elements of Stone, Artificial Stone, Wood, or Iron.

Claims use since Apr. 1, 1920.

Ser. No. 143,851. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CRAWFORD MANUFACTURING CO., INC., Richmond, Va. Filed Feb. 21, 1921.

CRAWFORD

Particular description of goods.—Re-Covers for Vehicle Tops, Side and Rear Curtains for Vehicles, Covers for Vehicle Seats and Doors, Covers for Vehicle Hoods and Radiators, Cushions for Vehicle Seats and Backs, Vehicle Tops, Curtain Lights or Windows for Vehicles, Raincoats or Aprons for Vehicles, Dust Covers for Vehicle Tops, Covers for Backs of Vehicle Seats, Extensions for Vehicle Windshields, Pads for Vehicle Tops, Sockets for Vehicle Top Bows, Bows for Vehicle Tops, Hand Grips for Vehicle Doors.

Claims use since November, 1919.

Ser. No. 144,495. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, doing business as American Steel & Wire Company, Cleveland, Ohio. Filed Mar. 9, 1921.



Particular description of goods.—Wire for Baling, Bundling, and Strapping, Barbed Wire, Wire Fences, Hexagon Wire Mesh Netting, Wire Gates and Parts Thereof, Wire Fenceposts and Parts Thereof, Wire Nails and Brads; Wire Escutcheon, Dowel, and Panel Pins; Wire Spikes, Hoop Fasteners, Tacks, Staples, Splices, Bolts, Nuts, Shackles, Thimbles, Turnbuckles, and Wire Fastening Devices Used in Fastening Cables or Wires Used in Aeroplane Bracing or Construction to the Bodies or Frames of the Planes.

Claims use since Oct. 1, 1899.

Ser. No. 146,663. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THOMAS J. ROBINSON, Chicago, Ill. Filed Apr. 23, 1921.



Particular description of goods.—Auxiliary Hot-Water Heaters Used Exclusively with Steam Boilers, and Parts of Such Heaters.

Claims use since August, 1920.

Ser. No. 147,813. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EDWIN B. STIMPSON COMPANY, Brooklyn, N. Y. Filed May 16, 1921.



Particular description of goods.—Rivets.

Claims use since about Jan. 1, 1920.

Ser. No. 147,956. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIA DONNELLY, doing business as Vi-Tabs Co., New York, N. Y. Filed May 20, 1921.

VI-TABS

Particular description of goods.—Medicinal Tablets Containing Vitamines in Concentrated Form, Used as a General Tonic and Invigorator.

Claims use since May 16, 1921.

Ser. No. 148,161. (CLASS 2. RECEPTACLES.) THE NATIONAL PAPER CAN COMPANY, Milwaukee, Wis. Filed May 24, 1921.

NAPIDOR

Particular description of goods.—Paper Containers for Tobacco and Cigars.

Claims use since Apr. 2, 1921.

Ser. No. 148,458. (CLASS 15. OILS AND GREASES.) SOUTHERN HARDWARE & SUPPLY CO., St. Louis, Mo. Filed May 31, 1921.

TEMPRITE

Particular description of goods.—Lubricating Oils.

Claims use since Mar. 1, 1920.

Ser. No. 149,230. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOPE COMPANY, Providence, R. I. Filed June 16, 1921. Under ten-year proviso.



Particular description of goods.—Cotton Goods in the Piece.

Claims use since Jan. 1, 1860.

Ser. No. 149,322. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) A. P. DIRMAN, doing business as O. K. Extract Supply Company, Milwaukee, Wis. Filed June 18, 1921.

OWL

Particular description of goods.—Malt Sirup.

Claims use since June 13, 1921.

Ser. No. 150,037. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) SUCCESS HEATER AND MANUFACTURING COMPANY, Des Moines, Iowa. Filed July 5, 1921.

+Power+Plus+

Particular description of goods.—Warm-Air Heaters and Furnaces.
Claims use since January, 1919.

Ser. No. 150,223. (CLASS 37. PAPER AND STATIONERY.) JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed July 11, 1921.

ELECTION

Particular description of goods.—Lead Pencils.
Claims use since 1897.

Ser. No. 150,838. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AUGUST H. WATERMAN, Rockford, Ill. Filed July 22, 1921.

PERA-PINE

No claim being made to the word "Pine" apart from the trade-mark "Pera-Pine," without, however, waiving applicants' common-law rights respecting said word.
Particular description of goods.—Polish for Automobiles or Any Enamel Finish and Cleaner and Polish for Woodwork, Pianos, Victrolas, and Furniture.
Claims use since Jan. 1, 1920.

Ser. No. 151,737. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed Aug. 12, 1921.

COLONIAL

Particular description of goods.—Candles.
Claims use since about Feb. 8, 1916.

Ser. No. 153,280. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE BORGFELDT & Co., New York, N. Y. Filed Sept. 24, 1921.

MY DEARIE

Particular description of goods.—Dolls.
Claims use since Mar. 15, 1908.

Ser. No. 153,587. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CONNECTICUT METAL & CHEMICAL CO., East Berlin, Conn. Filed Sept. 30, 1921.

CMC

Particular description of goods.—Bearing Metals, Solders, Type Metals, White Metals, and White-Metal Alloys.
Claims use since Sept. 1, 1920.

Ser. No. 153,585. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMISCHE WERKE VORM. H. & E. ALBERT, Amoneburg, near Biebrich, Germany. Filed Oct. 1, 1921.

Recresal

Particular description of goods.—Chemical Preparations in Liquid or Powdered Form for the Extirpation and Killing of Vermin, Plant Pests, and Weeds; Disinfectants; and Chemical Preparations in Powdered Form Used for the Preservation of Food Preserves and Conserves.
Claims use since May 10, 1920.

Ser. No. 153,968. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BASTIAN-MORLEY CO., Laporte, Ind. Filed Oct. 11, 1921.

GEM

Particular description of goods.—Gas Water Heaters.
Claims use since June 4, 1915.

Ser. No. 155,493. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GREAT WESTERN SMELTING & REFINING COMPANY, Chicago, Ill. Filed Nov. 17, 1921.

SUPER WIPING

No claim is made for the word "Wiping" apart from the mark shown in drawing.
Particular description of goods.—Solder.
Claims use since June 1, 1920.

Ser. No. 156,037. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) G. W. STERLING AND CO., INC., New York, N. Y. Filed Nov. 25, 1921.



No claim is made to the word "Everwhite" apart from the mark shown in the drawing.
Particular description of goods.—Handkerchiefs.
Claims use since Apr. 1, 1921.

Ser. No. 155,945. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY G. WASSON, doing business as Target Penetrating Oil Co., Peoria, Ill. Filed Nov. 25, 1921.

TARGET

Particular description of goods.—Rust Solvent.
Claims use since about Oct. 1, 1921.

Ser. No. 156,450. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JEWELL BELTING COMPANY, West Hartford, Conn. Filed Dec. 8, 1921.



No claim is made to the words "Dynamo Belt," except in connection with the mark as shown.
Particular description of goods.—Belts Made of Leather for Driving Machinery.
Claims use since Mar. 23, 1891.

Ser. No. 156,630. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) H. & M. MFG. COMPANY, Tulsa, Okla. Filed Dec. 13, 1921.

DRESWEL

Particular description of goods.—Sanitary Belts for Supporting Catamenial Sacks.
Claims use since Nov. 1, 1920.

Ser. No. 157,365. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE FAIRFACTS COMPANY, New York, N. Y. Filed Dec. 31, 1921.

Fairfacts

Particular description of goods.—Soap Holders, Tumbler Holders, Toothbrush Holders, Sponge Holders, Roll-Paper Holders, Sheet-Paper Holders, Grab Rails, Shelves, Towel Bars, Towel Hooks, Robe Hooks, Strop or Douche Hooks, Comb and Brush Holders, Combination Soap Holders, Combination Tumbler Holders, Combination Tumbler and Soap Holders, Combination Soap and Toothbrush Holders, Combination Tumbler and Toothbrush Holders, Combination Toothbrush and Tooth Paste Holders, Combination Cigar-Rest and Match Holder, Combination Soap and Two Tumbler Holders; Combination Tumbler, Soap, and Toothbrush Holders; Combination Tumbler and Two Toothbrush Holders, Combination Toothbrush and Two Tumbler Holders, Combination Shelf and Tumbler Holders, Combination Shelf and Soap Holders; Combination Shelf, Soap, and Tumbler Holders; Combination Shelf and Towel Bar; Combination Shelf, Towel Bar, Soap, and Tumbler Holders.
Claims use since March, 1916.

Ser. No. 157,600. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALFRED FIELD & CO., INC., New York, N. Y. Filed Jan. 7, 1922.

A F
ALFRED FIELD & Co
PROGRESS

Particular description of goods.—Pocketknives, Press-Button Knives, Pruning Knives, Budding Knives, Camp Knives, Hunting Knives, Lock-Back Knives, Utility Knives, Straight Trimmers, Banker Shears, Barber Shears, Ladies' Scissors, Buttonhole Scissors, Electricians' Scissors, Horse-Clipping Shears, Pocket Scissors, Embroidery Scissors, Scissors Sets, Cigar Cutters, Erasing Knives, Celluloid-Handle Knives and Forks and Scale Tang Table Cutlery Made of Base Metal—viz, Knives and Forks, Bird Carvers, Stag-Handle Carvers, Celluloid-Handle Carvers, Horn-Handle Carvers; Poultry Shears, Kitchen and Paring Knives, Coring Knives, Fish and Canning Knives, Shoe Knives, Grapefruit Knives, Butcher Knives, Elastic Household Knives, Cleavers, Skinning Knives, Boning Knives, Sticking Knives, Cooks' Knives, Steak Knives, Slicers, Ham Slicers, Beef Slicers, Bread Knives, Kitchen

Forks, Spatulas and Palette Knives; Kitchen Sets Containing Can Opener, Butcher Knife, Slicer, Pot Fork, Family Cleaver, Kitchen Knife, and Spatula; Putty Knives, Cotton Knives and Scrapers, Wall Scrapers, Cotton-Sampling Knives, Sharpening Steels, Can Openers, Corkscrews, Combination Folding Corkscrew and Pocket Bottle Openers, Ice Picks, Farriers' Knives, Glass Cutters, Hedge and Garden Shears, Lawn and Border Shears, Branch or Lopping Shears, Long-Handled Pruning Shears, Scythe Blades, Grass Hooks, Sheep Shears, Onion Shears, Mule Shears, Grass Shears, Pruning Shears, Grape-Culling Shears, Flower Shears, Flower or Rose Scissors, Rose Shears, Vine Scissors, Garden Trowels, Transplanting Trowels, Floral Trowels, Wood-Handle Dibbles, All-Iron Dibbles, Asparagus Knives, Pointing Trowels, Brick Trowels, Plastering Trowels, Weeding Hooks, Garden Forks, Combination Spring-Tooth Weeder Hoes, Edging Knives, Scuffle Hoes, Bill Hooks, Garden Syringes, Pliers, Nippers, Telegraph Vises, Hand Vises, Combination Pliers, Side-Cutting Pliers, Slip-Joint Combination Pliers, Pincers, Punches, Wire Cutters, Spark-Plug Files, Bolt Clippers, Snips, Nail Pullers, Box Scrapers, Gimlet Bits, Expansive Bits, Countersinks, Reamers, Screw-Driver Bits, Wrenches, Packing Needles, Tool Holders and Tools Therefor, Hand-Cut Letters and Figures for Stamping Steel, Toilet Hair Clippers, Fetlock Clippers, Horse Clippers, Burling Irons, Weaver Nippers, Weaver Shears, Knife Nippers, Scythe Nippers, Reed Hooks, and Differential Blocks.

Claims use since 1914.

Ser. No. 157,655. (CLASS 39. CLOTHING.) BILLSTEIN-FEIERMAN CO., Cleveland, Ohio. Filed Jan. 9, 1922.



The word "Service" is not claimed apart from the mark shown. The lining on drawing is merely for shading.

Particular description of goods.—Hosiery; Knit Goods, Including Sweaters, Gloves, Caps, Scarfs, Shawls; Dress, Negligee, and Work Shirts; Collars, Neckties, Bloomers, Brassieres, Camisoles, Nightgowns, and Boudoir Caps.

Claims use since December, 1920.

Ser. No. 158,267. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) TRIBBLE CORDAGE MILLS, INC., Boston, Mass. Filed Jan. 21, 1922.

ECLIPSE

Particular description of goods.—Mops.

Claims use since on or about Jan. 1, 1921.

Ser. No. 158,436. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PARISTYLE NOVELTY CO. INC., New York, N. Y. Filed Jan. 25, 1922.

Tourist

Particular description of goods.—Hair Nets.

Claims use since about Feb. 1, 1911.

Ser. No. 158,631. (CLASS 5. ADHESIVES.) WILLARD J. MCKENZIE, doing business as Pierce Remedy Company, St. Louis, Mo. Filed Jan. 30, 1922.

PwPc

Particular description of goods.—Waterproof Cement.

Claims use since Jan. 1, 1916.

Ser. No. 158,743. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE A. & J. MANUFACTURING CO., Binghamton, N. Y. Filed Feb. 2, 1922.

A&J

Trade-mark consists of the letters and character "A. & J." inclosed in a diamond.

Particular description of goods.—Kitchen and Household Tools or Utensils—to wit, Strainer Spoons, Batter Spoons, Basting Spoons, Cake Turners, Potato Mashers, Egg Beaters, Ice Picks, Kitchen Forks, Apple Corers, Can Openers, Griddle Greasers, and Spatulas.

Claims use since March, 1913.

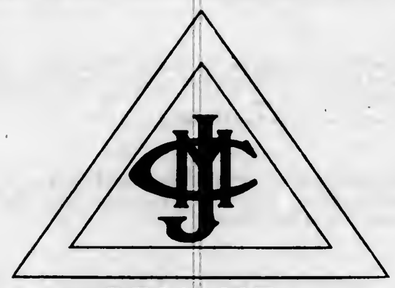
Ser. No. 158,813. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE ARGUS MANUFACTURING COMPANY, Cleveland, Ohio. Filed Feb. 3, 1922.

ARGUS

Particular description of goods.—Ready-Mixed Paint, Varnish, and Paint Enamel.

Claims use since Feb. 1, 1919.

Ser. No. 159,154. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE JENNINGS MANUFACTURING COMPANY, Dayton, Ohio. Filed Feb. 10, 1922.



Particular description of goods.—Carving Knives, Carving Forks, Pastry Knives, Butcher Knives, Parers, and Cleavers.

Claims use since Oct. 3, 1921.

Ser. No. 159,232. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) EDWIN A. JACKSON & BRO., INCORPORATED, New York, N. Y. Filed Feb. 11, 1922.

JAXON

Particular description of goods.—Coal, Coke, Wood, Gas, and Oil Burning Grates and Stoves.

Claims use since October, 1920.

Ser. No. 159,435. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMANDO R. THEODOSIO, Miami, Ariz. Filed Feb. 16, 1922.



No claim made to the word "Trade-Mark" apart from the mark shown in drawing.

Particular description of goods.—Medicinal Preparations for the Treatment of Catarrhal Troubles.

Claims use since Jan. 1, 1919.

Ser. No. 159,438. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNION PETROLEUM COMPANY, Philadelphia, Pa. Filed Feb. 16, 1922. Under ten-year proviso.

LITHOLINE

Particular description of goods.—Petroleum Jelly for Medicinal and Surgical Purposes.

Claims use since Aug. 1, 1881.

Ser. No. 159,584. (CLASS 5. ADHESIVES.) HARTMANN TRUNK COMPANY, Racine, Wis. Filed Feb. 20, 1922.

Gibraltarized

Particular description of goods.—Trunks.

Claims use since 1912.

Ser. No. 159,643. (CLASS 39. CLOTHING.) ALDEN WALKER & WILDS INCORPORATED, East Weymouth, Mass. Filed Feb. 21, 1922.



No claim made to the exclusive use of the word "Shoe" or the words "East Weymouth, Mass., U. S. A.," apart from the mark.

Particular description of goods.—Leather Shoes.

Claims use since Feb. 14, 1921.

Ser. No. 159,702. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HOUGH SHADE CORPORATION, Janesville, Wis. Filed Feb. 23, 1922.

RA-TOX

Particular description of goods.—Supporting, Guiding, and Other Fixtures and Appliances for Window Shades.

Claims use since on or about Jan. 31, 1922.

Ser. No. 159,924. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.



Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,925. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,929. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.



Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,930. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.



Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,931. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,933. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.



Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,934. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.



Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,938. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Particular description of goods.—Nonalcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,940. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.



Particular description of goods.—Nonalcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,941. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.



Particular description of goods.—Nonalcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,942. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Particular description of goods.—Nonalcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,944. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.



Particular description of goods.—Nonalcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,946. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Pear Buds

Particular description of goods.—Nonalcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,949. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Loganberry Buds

Particular description of goods.—Nonalcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 159,950. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHERRY BLOSSOM MFG. CO., Newton, Iowa. Filed Feb. 28, 1922.

Cherry Buds

Particular description of goods.—Nonalcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Nov. 15, 1914.

Ser. No. 160,033. (CLASS 39. CLOTHING.) SUNNY MAID DRESS COMPANY, New York, N. Y. Filed Mar. 1, 1922.

Sunny Maid Dress Co.

Particular description of goods.—Dresses for Girls, Flappers, Juniors, and Misses.
Claims use since May, 1919.

Ser. No. 160,038. (CLASS 37. PAPER AND STATIONERY.) WHITING-PLOVER PAPER CO., Stevens Point, Wis. Filed Mar. 1, 1922.

INTERNATIONAL BOND

No claim is made to the word "Bond" apart from the mark shown.
Particular description of goods.—Bond Papers Made Principally from Bleached Sulphite Pulp or Rag Stock or a Combination of Both.
Claims use since Apr. 1, 1913.

Ser. No. 160,054. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERT L. FREUDENBERGER, Cleveland, Ohio. Filed Mar. 2, 1922.

SYMO

Particular description of goods.—Grease and Oil Guns and Parts Thereof.
Claims use since about Feb. 25, 1922.

Ser. No. 160,083. (CLASS 39. CLOTHING.) RUGBY KNITTING MILLS, Buffalo, N. Y. Filed Mar. 2, 1922.

Rugby Chummy

Particular description of goods.—Knitted Coats and Knitted Sweaters.
Claims use since about January, 1922.

Ser. No. 160,103. (CLASS 39. CLOTHING.) HERMAN WILE & Co., Buffalo, N. Y. Filed Mar. 2, 1922.

Wile Made Clothes

No claim is made to the words "Made Clothes" apart from the mark.
Particular description of goods.—Men's and Young Men's Clothing—Namely, Suits and Coats.
Claims use since about Apr. 10, 1921.

Ser. No. 160,190. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa. Filed Mar. 4, 1922.

1776 SESQUI CENTENNIAL 1926
PHILADELPHIA, U.S.A.
HENRY DISSTON & SONS

No claim is made to the words "Philadelphia, U. S. A." apart from the mark as shown.
Particular description of goods.—Saws.
Claims use since Nov. 7, 1921.

Ser. No. 160,260. (CLASS 39. CLOTHING.) A. RIFKIN & COMPANY, Wilkes-Barre, Pa. Filed Mar. 6, 1922.

RIFKIN-ALLS
PATENTED
UNION SUIT
EASY TO WEAR—HARD TO TEAR

No claim is made to the exclusive use of the words "Union Suit;" "Easy to Wear—Hard to Tear," and "Patented" apart from the mark shown.
Particular description of goods.—Union Suits of Textile Material.
Claims use since July 1, 1920.

Ser. No. 160,286. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GOTTSCHALK, STEINBERG & Co. INC., New York, N. Y. Filed Mar. 7, 1922.

The COMFY
Enmeshes the World



No claim is made to the representation of the hair net except as shown on the drawing. The picture of the girl's head is fanciful.
Particular description of goods.—Hair Nets of Real Hair, and Hair Nets, Nettings, Veilings, and Veils of Silk or Cotton or Silk and Cotton Combined in the Piece or by the Yard and Also Made Up in Individual or Separate Form, Both with and without Elastic Edging.
Claims use since Dec. 10, 1921.

Ser. No. 160,350. (CLASS 39. CLOTHING.) HOLMAC, INC., New York, N. Y. Filed Mar. 8, 1922.

HOLMAC

No claim is made to the representation of a golf ball and golf clubs apart from the mark as shown.
Particular description of goods.—Golf Gloves Made of Chamois Leather.
Claims use since Oct. 1, 1921.

Ser. No. 160,363. (CLASS 39. CLOTHING.) PENNSYLVANIA HOSIERY MILLS, Philadelphia, Pa. Filed Mar. 8, 1922.

PENNSYLVANIA HOSIERY MILLS
"MILL TO YOU"

Applicant disclaims the words "Mill to You" apart from the mark.
Particular description of goods.—Hosiery.
Claims use since Sept. 23, 1921.

Ser. No. 160,394. (CLASS 12. CONSTRUCTION MATERIALS.) DENNIS A. CASEY, New Orleans, La. Filed Mar. 9, 1922.

Cascemco

Particular description of goods.—Paving Mixture.
Claims use since Mar. 7, 1921.

Ser. No. 160,440. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STRUTZ & CLOTTU CO., Chicago, Ill. Filed Mar. 9, 1922.

The NONDER MASTER

Particular description of goods.—Razors.
Claims use since April, 1921.

Ser. No. 160,641. (CLASS 37. PAPER AND STATIONERY.) SAINBERG & CO. INC., New York, N. Y. Filed Mar. 13, 1922.

CALENDESK

Particular description of goods.—Paper-Supporting Pads for Writing Purposes.
Claims use since Jan. 1, 1922.

Ser. No. 161,104. (CLASS 37. PAPER AND STATIONERY.) AMERICAN NONSEAL WORKS, INC., New York, N. Y. Filed Mar. 23, 1922.

Counterboy

Particular description of goods.—Tape-Serving Device.
Claims use since Nov. 25, 1921.

Ser. No. 161,293. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN NICOTINE COMPANY, Henderson, Ky. Filed Mar. 27, 1922.

NICOTINUM

Particular description of goods.—Fumigating, Spraying, and Dipping Preparations.
Claims use since Dec. 1, 1921.

Ser. No. 161,299. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CONSOLIDATED IRON-STEEL MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 27, 1922.

GAME JR.

Particular description of goods.—Oil-Lamp Stoves.
Claims use since October, 1899.

Ser. No. 161,300. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CONSOLIDATED IRON-STEEL MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 27, 1922.

SUMMER GIRL

Particular description of goods.—Oil-Lamp Stoves.
Claims use since October, 1899.

Ser. No. 161,306. (CLASS 37. PAPER AND STATIONERY.) ELLKOP SYSTEM INC., Boston, Mass. Filed Mar. 27, 1922.

Ellkop's

Particular description of goods.—Loose-Leaf Budget System.
Claims use since Feb. 6, 1922.

Ser. No. 161,368. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) F. W. MACKE & CO., Kokomo, Ind. Filed Mar. 28, 1922.

QUICKSET

No claim is made to the word "Quickset" apart from the mark shown in the drawing.
Particular description of goods.—Pipe Wrenches, Monkey Wrenches, Automobile Wrenches, and Bicycle Wrenches.
Claims use since Nov. 18, 1921.

Ser. No. 161,383. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) R. I. V. CO. INC., New York, N. Y. Filed Mar. 28, 1922.

RIV

Particular description of goods.—Ball Bearings.
Claims use since 1907.

Ser. No. 161,716. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE AYLING & REICHERT CO., Toledo, Ohio. Filed Apr. 4, 1922.

NOSOL

Particular description of goods.—Chambered Floats for Use with Float Valves.
Claims use since February, 1907.

Ser. No. 161,955. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AUTO ELECTRIC AIR FEED, INC., Chicago, Ill. Filed Apr. 10, 1922.

AIREATER

Particular description of goods.—Automatic Fuel-Feed Regulators for Internal-Combustion Engines.
Claims use since Jan. 27, 1922.

Ser. No. 162,021. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EUGENE O'N. LIGHTNER, Washington, D. C. Filed Apr. 10, 1922.

STORN

Particular description of goods.—Direction Signals.
Claims use since Mar. 31, 1922.

Ser. No. 162,065. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) STRINGER BROS. CO., Chicago, Ill. Filed Apr. 10, 1922.

Republic

Particular description of goods.—Oil-Regulated Flush Valves, Cast-Iron Bends, Cast-Iron Drum Traps, Cast-Iron Soil and Drainage Fittings.
Claims use since 1909.

Ser. No. 162,103. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE FULLER BRUSH COMPANY, Hartford, Conn. Filed Apr. 11, 1922.

Fuller

The shading in drawing denotes the color red.
Particular description of goods.—Crumb Trays, Crumb Scrapers, and Sink Scrapers.
Claims use since on or about Nov. 1, 1920.

Ser. No. 162,107. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) FOSTER, MERRIAM & COMPANY, Meriden, Conn. Filed Apr. 11, 1922.



Applicant disclaims the representation of the goods apart from the mark shown on drawing.

Particular description of goods.—Metallic Piston Rings.

Claims use since Jan. 17, 1922.

Ser. No. 162,110. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FREDERICK EDWARD HODDEASEN-BALLING, Brooklyn, N. Y. Filed Apr. 11, 1922.



Particular description of goods.—Ham Cookers.

Claims use since about Jan. 5, 1922.

Ser. No. 162,404. (CLASS 37. PAPER AND STATIONERY.) THE GEORGE PAPER CORPORATION, Albany, N. Y. Filed Apr. 17, 1922.



We disclaim all printed matter appearing on label showing how trade-mark is used excepting the firm name, apart from the mark as shown.

Particular description of goods.—Toilet Paper, Paper Towels, and Paper Napkins.

Claims use since Apr. 10, 1922.

Ser. No. 162,433. (CLASS 39. CLOTHING.) A. I. NAMM & SON, INC., Brooklyn, N. Y. Filed Apr. 17, 1922.

Playproof

Particular description of goods.—Children's Shoes Made of Leather, Rubber, Canvas, and Combinations of These Materials.

Claims use since Mar. 1, 1922.

Ser. No. 162,580. (CLASS 37. PAPER AND STATIONERY.) ROSE & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

SHEEPSKIN

Particular description of goods.—Tissue Paper Mainly Used for Carbonizing Purposes.

Claims use since Aug. 7, 1908.

Ser. No. 162,660. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) BELDAM ASBESTOS COMPANY LIMITED, London, England. Filed Apr. 21, 1922.



No claim is made to the words "Packings the Most Economical and Efficient" apart from the mark shown in drawing.

Particular description of goods.—Asbestos Engine Packings.

Claims use since 1907.

Ser. No. 162,793. (CLASS 39. CLOTHING.) PASQUALE ALTRUDA, Providence, R. I. Filed Apr. 24, 1922.

NEW STEP AIR

Trade-mark consists of the words "New Air Step."

Particular description of goods.—Rubber Heels.

Claims use since July 19, 1921.

Ser. No. 162,813. (CLASS 37. PAPER AND STATIONERY.) GILBERT PAPER CO., Menasha, Wis. Filed Apr. 24, 1922.

LIN-COT

Particular description of goods.—Ledger and Bond Papers.

Claims use since Mar. 8, 1922.

Ser. No. 162,931. (CLASS 37. PAPER AND STATIONERY.) WILLIAM H. JOHNSON, New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 26, 1922.

PETER RABBIT

Particular description of goods.—Writing Paper, Wrapping Paper, Pencils, Pens, Blank Bank Books, Bill Files, Bill Heads, Bill Straps, Blank Forms; Albums for Holding Pictures, Photographs, and Cards; Blotting Paper, Bookmarks, Card-Index Cards, Composition Books, Envelopes, Account Books, Elastic Rubber Bands, Chalk Crayons, Tailors' Chalk, Confetti, Crepe Paper, and Cardboard.

Claims use since Apr. 21, 1922.

Ser. No. 163,192. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STIL-DANIELS, Detroit, Mich. Filed May 1, 1922.

S  D

Particular description of goods.—Hair Dressings and Tonics.

Claims use since Apr. 18, 1922.

Ser. No. 163,300. (CLASS 37. PAPER AND STATIONERY.) JEROME WYLE, doing business as Sanitary Cup & Specialty Co., Albany, N. Y. Filed May 3, 1922.

"SANICO"

Particular description of goods.—Toilet Paper and Paper Towels.

Claims use since about Jan. 10, 1922.

Ser. No. 163,407. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MONROE DRUG CO., Quincy, Ill. Filed May 5, 1922. Under ten-year proviso.


PUTNAM FADELESS DYES

Particular description of goods.—Dyes.

Claims use since Dec. 1, 1894.

Ser. No. 163,481. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIKE ULBS, Elgin, Nebr. Filed May 6, 1922.



The trade-mark is a portrait of applicant.

Particular description of goods.—Medicine for Use in the Treatment of Rheumatism, Kidney, Liver, and Stomach Trouble, also Tuberculosis, Asthma, and Catarrh.

Claims use since Apr. 25, 1922.

Ser. No. 163,485. (CLASS 37. PAPER AND STATIONERY.) WOELZ BROS., Appleton, Wis. Filed May 6, 1922.

RULE-RITE

Particular description of goods.—Writing and Ledger Papers.

Claims use since Nov. 10, 1921.

Ser. No. 163,521. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE HARTMAN-SPRENG CO., Mansfield, Ohio. Filed May 8, 1922.



Particular description of goods.—Gas Heaters and Stoves.

Claims use since Apr. 14, 1922.

Ser. No. 163,529. (CLASS 37. PAPER AND STATIONERY.) J. J. MURPHY PAPER CO., INC., New York, N. Y. Filed May 8, 1922.

Knickerbocker Bond

No rights are asserted to the exclusive use of the word "Bond" apart from the mark as shown in the drawing.

Particular description of goods.—Bond Paper.

Claims use since Jan. 13, 1922.

Ser. No. 163,550. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn. Filed May 8, 1922.

SILVORE

Particular description of goods.—Metal Alloys of Copper, Zinc, and Nickel in the Form of Sheet Metal in Rolls, Sheets, and Strips; Wire in Coils, Blanks, Ingots, and Rods in Random and in Exact Lengths.
Claims use since Feb. 25, 1922.

Ser. No. 163,551. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn. Filed May 8, 1922,



Particular description of goods.—Metal Alloys of Copper, Zinc, and Nickel in the Form of Sheet Metal in Rolls, Sheets, and Strips; Wire in Coils, Blanks, Ingots, and Rods in Random and Exact Lengths.
Claims use since Feb. 25, 1922.

Ser. No. 163,552. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn. Filed May 8, 1922,



Particular description of goods.—Metal Alloys of Copper, Zinc, and Nickel in the Form of Sheet Metal in Rolls, Sheets, and Strips; Wire in Coils, Blanks, Ingots, and Rods in Random and Exact Lengths.
Claims use since Feb. 25, 1922.

Ser. No. 163,645. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE OLDFIELD TIRE COMPANY, Akron, Ohio. Filed May 10, 1922.

"999"

Particular description of goods.—Resilient Vehicle Tires and Inner Tubes.
Claims use since July 1, 1921.

Ser. No. 163,656. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) UNITED STATES CHAIN & FORGING CO., Pittsburgh, Pa. Filed May 10, 1922.



No claim is made to the representation of the bag apart from the mark shown in the drawing.
Particular description of goods.—Chains of Base Metal, Cross Chains, and Tire Chains.
Claims use since Aug. 25, 1921.

Ser. No. 163,676. (CLASS 35. BELTING, HOSE, MACHINERY PACKING AND NONMETALLIC TIRES.) THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Filed May 11, 1922.

PREMIER

Trade-mark consists of the arbitrary word "Premier."
Particular description of goods.—Rubber Tires for Bicycles, Carriages, and Automobiles.
Claims use since Nov. 22, 1900.

Ser. No. 163,810. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 13, 1922.

GLENDORA

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since September, 1896.

Ser. No. 163,926. (CLASS 39. CLOTHING.) ARMSTRAD W. FIELD, Philadelphia, Pa. Filed May 16, 1922.

No. Ge. Feet

Particular description of goods.—Feet Warmers.
Claims use since Apr. 19, 1922.

Ser. No. 163,956. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ZIMMERMAN STOVE HEATER CORP., New York, N. Y. Filed May 16, 1922.

THRIFT

Trade-mark consists of the word "Thrift."
Particular description of goods.—House-Heating Kitchen Ranges Consisting of a Combination Range and Hot-Water Jacket.
Claims use since May, 1921.

Ser. No. 163,971. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MAY BLISS DICKINSON, Boston, Mass. Filed May 17, 1922.

MOTHERCRAFT

Particular description of goods.—Dolls, Dolls' Clothing, and Dolls' Bedding.
Claims use since 1917.

Ser. No. 164,028. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) J. R. DAVIS, doing business as Rex Manufacturing Co., Clarksburg, W. Va. Filed May 18, 1922.

Rex

Particular description of goods.—Piston Rings.
Claims use since Jan. 15, 1921.

Ser. No. 164,036. (CLASS 37. PAPER AND STATIONERY.) EBERWEIN & ZAHRNDT, Rochester, N. Y. Filed May 18, 1922.

LETTER-DEX

Particular description of goods.—Letter Files.
Claims use since November, 1921.

Ser. No. 164,097. (CLASS 17. TOBACCO PRODUCTS.) P. U. BENJAMIN & Co., Natchez, Miss. Filed May 19, 1922.

JOHN B. STETSON

No claim is made to the use of a representation of a cigar apart from the mark shown in the drawing.
Particular description of goods.—Cigars.
Claims use since Apr. 1, 1922.

Ser. No. 164,132. (CLASS 5. ADHESIVES.) FRED L. TRICKEY, Berlin, Wis. Filed May 19, 1922.

CHINALOID

Particular description of goods.—Cements.
Claims use since Feb. 15, 1922.

Ser. No. 164,133. (CLASS 5. ADHESIVES.) FRED L. TRICKEY, Berlin, Wis. Filed May 19, 1922.

NITROLOID

Particular description of goods.—Cements.
Claims use since Feb. 15, 1922.

Ser. No. 164,134. (CLASS 5. ADHESIVES.) FRED L. TRICKEY, Berlin, Wis. Filed May 19, 1922.

NILOID

Particular description of goods.—Cements.
Claims use since Feb. 15, 1922.

Ser. No. 164,135. (CLASS 5. ADHESIVES.) FRED L. TRICKEY, Berlin, Wis. Filed May 19, 1922.

NITROID

Particular description of goods.—Cement.
Claims use since Feb. 15, 1922.

Ser. No. 164,136. (CLASS 5. ADHESIVES.) FRED L. TRICKEY, Berlin, Wis. Filed May 19, 1922.

CELLULITE

Particular description of goods.—Cements.
Claims use since Feb. 15, 1922.

Ser. No. 164,155. (CLASS 17. TOBACCO PRODUCTS.) JOHN BAUHOFER, Louisville, Ky. Filed May 20, 1922.



Particular description of goods.—Cigars.
Claims use since Jan. 1, 1922.

Ser. No. 164,197. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) R. RUSSELL and SONS LIMITED, Derby, England. Filed May 20, 1922.



Particular description of goods.—Open Sitting-Room Coal-Burning Stoves.
Claims use since Apr. 13, 1908.

Ser. No. 164,241. (CLASS 37. PAPER AND STATIONERY.) WILLIAM S. FERDON, doing business as Mem-O-ette Co., Omaha, Neb. Filed May 22, 1922.

Mem-O-Ette

Particular description of goods.—Blank Business Forms for Receiving Indicia and Memorandum Pads.
Claims use since Apr. 15, 1922.

Ser. No. 164,389. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim is made to exclusive use of the words "Pure Japan Silk 50 Yds. No. P. Test 12 Lbs. Extra Hard Braid." apart from the mark shown in the drawing.
Particular description of goods.—Japan-Silk Fishing Lines.
Claims use since Dec. 6, 1916.

Ser. No. 164,406. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) S. W. EVANS & SON, Philadelphia, Pa. Filed May 24, 1922.



No claim is made for the plate.
Particular description of goods.—Umbrella and Parasol Ribs.
Claims use since about Feb. 1, 1916, the word "Sweson," the figure of the face, and "Swe" since about Apr. 10, 1922; the word "Sweson," the face and the letters "S.W.E.," as shown in drawing, since about Apr. 10, 1922.

Ser. No. 164,492. (CLASS 37. PAPER AND STATIONERY.) CLARK & LEONARD, New York, N. Y. Filed May 25, 1922.

WORK-A-DAY

Particular description of goods.—Calendar Desk Pads.
Claims use since November, 1921.

Ser. No. 164,734. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) HENNING WENNERSTEN INCORPORATED, Chicago, Ill. Filed May 31, 1922.



Particular description of goods.—Malt Extracts.
Claims use since Nov. 1, 1921.

Ser. No. 164,849. (CLASS 5. ADHESIVES.) WILLIAM ZINSSER & COMPANY, INCORPORATED, New York, N. Y. Filed June 2, 1922.



No claim is made to the word "Brand" except as associated with the other features of the mark. The letter "Z" and the word "Eye" are red, and the target is black.
Particular description of goods.—Glues, Paste, and Sealing Wax.
Claims use since about 1918.

Ser. No. 164,868. (CLASS 38. PRINTS AND PUBLICATIONS.) CHOCOLATE PRODUCTS COMPANY, Baltimore, Md. Filed June 3, 1922.

The Chocolate Messenger.

Trade-mark consists of the words "The Chocolate Messenger."
Particular description of goods.—Publications Issued Monthly.
Claims use since May 25, 1922.

Ser. No. 164,938. (CLASS 38. PRINTS AND PUBLICATIONS.) NEVADA STATE JOURNAL PUBLISHING CO., Reno, Nev. Filed June 3, 1922. Under ten-year proviso.

NEVADA STATE JOURNAL

Particular description of goods.—Daily (Including Sunday) Newspapers.
Claims use since 1873.

Ser. No. 165,244. (CLASS 38. PRINTS AND PUBLICATIONS.) THE STATESMAN PRINTING COMPANY, Boise, Idaho. Filed June 9, 1922. Under ten-yesr proviso.

THE IDAHO DAILY STATESMAN

Particular description of goods.—Newspapers.
Claims use since July 26, 1864.

Ser. No. 165,249. (CLASS 37. PAPER AND STATIONERY.) TIDEWATER PAPER MILLS COMPANY, New York, N. Y. Filed June 9, 1922.



No claim is made to the words "Brooklyn, N. Y."
Particular description of goods.—Newsprint Paper.
Claims use since Mar. 28, 1922.

Ser. No. 165,407. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE OERTEL CO., Louisville, Ky. Filed June 12, 1922.



The words "Real Lager" do not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Nonintoxicating Malt and Cereal Beverage Containing Less Than One-Half of One Per Cent of Alcohol Sold as a Soft Drink, Commonly Known as Near Beer.
Claims use since Apr. 27, 1922.

Ser. No. 165,438. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GUY MABRY CAUSEY, The Dalles, Oreg. Filed June 13, 1922.

ROSE-PORT

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as Soft Drink and Sirup for Making the Same.
Claims use since Dec. 1, 1920.

Ser. No. 165,547. (CLASS 5. ADHESIVES.) GUILD PRODUCTS CORPORATION, Philadelphia, Pa. Filed June 15, 1922.

Guild

Particular description of goods.—Mucilage, Paste, Glue, and Sealing Wax.
Claims use since Feb. 17, 1922.

Ser. No. 165,653. (CLASS 37. PAPER AND STATIONERY.) GEO. D. BARNARD STATIONERY COMPANY, St. Louis, Mo. Filed June 19, 1922.

BARNARD'S
MASTERPIECE BOND

No claim to the use of the word "Bond" apart from the mark as shown.
Particular description of goods.—Writing Paper.
Claims use since Feb. 9, 1921.

Ser. No. 165,691. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., New York, N. Y. Filed June 19, 1922.

"VELVA-CREPE"

No claim is made to the words "Silks" and "Crepe" except in connection with rest of mark.
Particular description of goods.—Silk Goods in the Piece.
Claims use since May 23, 1922.

Ser. No. 165,739. (CLASS 37. PAPER AND STATIONERY.) WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed June 19, 1922.

ARIEL

Particular description of goods.—Toilet Paper.
Claims use since Feb. 21, 1922.

Ser. No. 165,740. (CLASS 37. PAPER AND STATIONERY.) WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed June 19, 1922.

CILLEEN

Particular description of goods.—Toilet Paper.
Claims use since Feb. 21, 1922.

Ser. No. 165,741. (CLASS 37. PAPER AND STATIONERY.) WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed June 19, 1922.

Silvette

Particular description of goods.—Toilet Paper.
Claims use since Feb. 21, 1922.

Ser. No. 165,877. (CLASS 37. PAPER AND STATIONERY.) GEO. W. MILLAR & CO., INC., New York, N. Y. Filed June 22, 1922.

Snowbird

Particular description of goods.—Correspondence Papers and Correspondence Envelopes Packed in Boxes and Known as Papeteries.
Claims use since about Apr. 1, 1922.

Ser. No. 166,233. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HAPPIWORK, Branchville, Conn. Filed June 29, 1922.

HAPPIWORK

Particular description of goods.—Illustrated Boxes for Children for Educational and Amusement Purposes.
Claims use since May 20, 1922.

Ser. No. 166,352. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RICHARD C. DILLMORE, Philadelphia, Pa. Filed July 1, 1922.

TANG-A-RANG
THE BEVERAGE SUPREME

No claim is made to the words "The Beverage Supreme" apart from the mark as shown.
Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since June 1, 1922.

Ser. No. 167,185. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE MOUNTVALE COMPANY, INCORPORATED, Saranac Lake, N. Y. Filed July 21, 1922.

MOUNTVALE

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since May 16, 1922.

Ser. No. 167,284. (CLASS 5. ADHESIVES.) E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed July 15, 1922.

DU PONT

Particular description of goods.—Adhesive Cement, Waterproof Adhesive Cement, Adhesive Belt Cement, Adhesive Leather Cement, and Household Cement.
Claims use since Jan. 29, 1920.

Ser. No. 167,355. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALFRED JOHNSON SKATE COMPANY, Chicago, Ill. Filed July 25, 1922.

Ice King

Particular description of goods.—Ice Skates.
Claims use since June, 1922.

Ser. No. 167,400. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CHARLES F. HAGAN, doing business as Wyrick Spring Company, Crocket, Va. Filed July 26, 1922.

WYRICK WATER

The word "Water" does not form a part of the registration sought apart from the mark shown in drawing.
Particular description of goods.—Mineral and Carbonated Water.
Claims use since October, 1921.

Ser. No. 167,405. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LOS ANGELES ICE & COLD STORAGE CO., Los Angeles, Calif. Filed July 26, 1922.

Vinette

Particular description of goods.—Nonintoxicating, Nonalcoholic, Maltless Beverage Sold as Soft Drink and Sirups Used in Preparation of the Same.
Claims use since Sept. 16, 1919.

Ser. No. 167,528. (CLASS 45. BEVERAGES, NONALCOHOLIC.) MINERAL ROCK SPRINGS, INC., Kansas City, Mo. Filed July 28, 1922.

MINROCK

Particular description of goods.—Mineral-Spring Water.
Claims use since July 12, 1922.

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[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 5, 1922.

158,371. GINGER ALE. ABNER-DRURY COMPANY, Washington, D. C.
Filed April 4, 1922. Serial No. 161,714. PUBLISHED JUNE 6, 1922.

158,372. RADIO RECEIVING SETS. ACME APPARATUS COMPANY, Cambridge, Mass.
Filed February 8, 1922. Serial No. 159,005. PUBLISHED MARCH 28, 1922.

158,373. FIRST-AID KITS. ADJUSTA INCORPORATED, Washington, D. C., and New York, N. Y.
Filed September 27, 1920. Serial No. 137,650. PUBLISHED MARCH 7, 1922.

158,374. INTERIOR WALL WOODWORK FINISH. ALINALL MANUFACTURING COMPANY, Worcester, Mass.
Filed January 25, 1922. Serial No. 158,412. PUBLISHED MARCH 21, 1922.

158,375. TABLE SIRUP. AMERICAN HOMINY COMPANY, Indianapolis, Ind., and Decatur, Ill.
Filed July 19, 1921. Serial No. 150,582. PUBLISHED MARCH 14, 1922.

158,376. FLOTATION OIL. AMERICAN PINE PRODUCTS CORPORATION, New York, N. Y.
Filed January 31, 1920. Serial No. 127,792. PUBLISHED MAY 23, 1922.

158,377. WATCHES, WATCH MOVEMENTS, WATCH-CASES, AND PARTS THEREOF. AMERICAN-SWISS WATCH CO. INC., Peekskill, N. Y.
Filed February 17, 1922. Serial No. 159,455. PUBLISHED MAY 23, 1922.

158,378. COUGH SIRUP. C. A. ARNSTADT, doing business as The I. X. L. Drug Company, Ridgway, Pa.
Filed January 9, 1922. Serial No. 157,648. PUBLISHED MAY 30, 1922.

158,379. CERTAIN NAMED TOYS. ART METAL TOY COMPANY, New Brunswick, N. J.
Filed October 10, 1921. Serial No. 153,911. PUBLISHED JUNE 6, 1922.

158,380. FISHING LINE. ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I.
Filed January 12, 1922. Serial No. 157,817. PUBLISHED JUNE 6, 1922.

158,381. HAIR, CLOTH, FLESH, AND NAIL BRUSHES. ATLANTIC COMB WORKS, New York, N. Y.
Filed February 14, 1920. Serial No. 128,382. PUBLISHED JUNE 6, 1922.

158,382. DOLLS. AVERILL MFG. CORP., New York, N. Y.
Filed January 31, 1922. Serial No. 158,667. PUBLISHED JUNE 13, 1922.

158,383. PAINTBRUSHES. BAKER BRUSH CO., INC., New York, N. Y.
Filed February 10, 1922. Serial No. 159,137. PUBLISHED JUNE 6, 1922.

158,384. SALVE. JOHN A. BAKER, doing business as Muster-Camph Co., Minneapolis, Minn.
Filed January 9, 1922. Serial No. 157,649. PUBLISHED MAY 30, 1922.

158,385. GASOLINE. W. H. BARBER CO., Minneapolis, Minn.
Filed February 6, 1922. Serial No. 158,913. PUBLISHED MARCH 14, 1922.

158,386. VARNISHES. BERRY BROTHERS, Detroit, Mich.
Filed November 7, 1921. Serial No. 155,083. PUBLISHED MAY 2, 1922.

158,387. INCANDESCENT ELECTRIC LAMPS. BETTALYTE INCANDESCENT LAMP CO., INC., New York, N. Y.
Filed February 15, 1922. Serial No. 159,339. PUBLISHED MAY 9, 1922.

158,388. ELECTRIC VACUUM CLEANERS. BIRTMAN ELECTRIC COMPANY, Chicago, Ill.
Filed March 29, 1922. Serial No. 161,405. PUBLISHED JUNE 13, 1922.

158,389. VENEER GLUE. BITU-MO-LIN PRODUCTS CO., Seattle, Wash.
Filed March 30, 1921. Serial No. 145,[illegible]. PUBLISHED MARCH 14, 1922.

158,390. CERTAIN NAMED TOILET PREPARATIONS. JAMES L. BLADES, doing business as The New Jersey Products Company, Woodcliff-on-Hudson, N. J.
Filed January 13, 1922. Serial No. 157,875. PUBLISHED MAY 16, 1922.

158,391. CERTAIN NAMED ELECTRIC HOUSEHOLD APPLIANCES. GEORGE BOSOFELDT & CO., New York, N. Y.
Filed January 4, 1922. Serial No. 157,472. PUBLISHED MAY 9, 1922.

158,392. HAIR GROWER AND SHAMPOO. EDWARD J. BOWEN, doing business as The Genuine Crude Oil Company, New York, N. Y.
Filed November 17, 1921. Serial No. 155,477. PUBLISHED MAY 16, 1922.

158,393. OLIVE OIL. BRAGNO & MUSTARI, Chicago, Ill.
Filed November 8, 1921. Serial No. 155,155. PUBLISHED MAY 30, 1922.

158,394. OVERLOAD RELAYS. BROWN & PENGILLY, Los Angeles, Calif.
Filed March 16, 1922. Serial No. 160,746. PUBLISHED JUNE 27, 1922.

158,395. MALTLESS-BEVERAGE SIRUPS FOR SODA FOUNTAINS. BUZZ SYRUP CO., INC., Reading, Pa.
Filed March 13, 1920. Serial No. 129,622. PUBLISHED FEBRUARY 21, 1922.

158,396. ELECTRICALLY-OPERATED TEXTILE-FABRIC-WASHING MACHINES. CADILLAC WASHING MACHINE CO., Chicago, Ill.
Filed January 23, 1922. Serial No. 158,298. PUBLISHED JUNE 27, 1922.

158,397. BUTTER. THE CAPITAL CITY PRODUCTS COMPANY, Columbus, Ohio.
Filed November 2, 1921. Serial No. 154,918. PUBLISHED JUNE 13, 1922.

158,398. DECOLORIZING AND ACTIVATED CARBONS. CARBOX COMPANY INC., New Orleans, La.
Filed November 30, 1921. Serial No. 156,078. PUBLISHED MAY 30, 1922.

158,399. WOMEN'S AND CHILDREN'S DRESSES. THE CARLISLE GARMENT CO., Carlisle, Pa.
Filed August 13, 1921. Serial No. 151,754. PUBLISHED MAY 16, 1922.

158,400. A CERTAIN MEDICINAL AND PHARMACEUTICAL PREPARATION FOR USE AS A TREATMENT FOR INDIGESTION. JOHN R. CARR, Philadelphia, Pa.
Filed November 26, 1921. Serial No. 155,955. PUBLISHED MAY 16, 1922.

158,401. READY-MIXED PAINTS, PASTE PAINTS, ENAMEL PAINTS, VARNISHES, AND STAINS. CENTRAL PAINT & VARNISH MFG. CO., Kansas City, Mo.
Filed December 17, 1921. Serial No. 156,826. PUBLISHED APRIL 25, 1922.

158,402. SPARK PLUGS AND PARTS THEREOF. CHAMPION SPARK PLUG COMPANY, Toledo, Ohio.
Filed March 20, 1922. Serial No. 160,924. PUBLISHED JUNE 27, 1922.

158,403. STORAGE BATTERIES. THE CHARLES WILLIAM STORES INC., Brooklyn, N. Y.
Filed April 4, 1921. Serial No. 145,673. PUBLISHED JUNE 27, 1922.

158,404. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,922. PUBLISHED JUNE 20, 1922.

158,405. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,926. PUBLISHED JUNE 20, 1922.

158,406. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,928. PUBLISHED JUNE 20, 1922.

158,407. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,932. PUBLISHED JUNE 20, 1922.

158,408. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,935. PUBLISHED JUNE 13, 1922.

158,409. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,936. PUBLISHED JUNE 13, 1922.

158,410. STATIONARY LAUNDRY TUBS. CHICAGO GRANITINE MANUFACTURING COMPANY, Chicago, Ill.
Filed January 16, 1922. Serial No. 157,986. PUBLISHED MAY 23, 1922.

158,411. STATIONARY LAUNDRY TUBS. CHICAGO GRANITINE MANUFACTURING COMPANY, Chicago, Ill.
Filed January 16, 1922. Serial No. 157,987. PUBLISHED MAY 23, 1922.

158,412. DRY PAINTS. CLEVELAND COATINGS COMPANY, Cleveland, Ohio.
Filed May 16, 1921. Serial No. 147,766. PUBLISHED MARCH 7, 1922.

158,413. FACE CREAMS. HARVEY P. COGHILL, doing business as Celestial Chemical Company, Chicago, Ill.
Filed November 25, 1921. Serial No. 155,930. PUBLISHED MAY 30, 1922.

158,414. SELF-CONTAINED ELECTRIC GENERATOR APPARATUS. COLUMBIAN BRONZE CORPORATION, Freeport and New York, N. Y.
Filed March 18, 1922. Serial No. 160,872. PUBLISHED JUNE 13, 1922.

158,415. TOY ANIMALS, TOY BALLOONS, AND BARKING AND SOUNDING TOYS. H. R. COLWELL, Washington, D. C.
Filed January 31, 1922. Serial No. 158,695. PUBLISHED JUNE 20, 1922.

158,416. RAW ONIONS. CONFEDERATED ONION GROWERS ASSOCIATION, Portland, Oreg.
Filed November 12, 1921. Serial No. 155,302. PUBLISHED JUNE 6, 1922.

158,417. LEAD BATTERY PLATES. CONTINENTAL BATTERY COMPANY, St. Louis, Mo.
Filed March 31, 1922. Serial No. 161,528. PUBLISHED JUNE 27, 1922.

158,418. GASOLINE, NAPHTHA, FUEL OILS, KEROSINE, DISTILLATES, AND GAS OILS. HENRY H. CROSS COMPANY, Chicago, Ill.
Filed June 29, 1921. Serial No. 149,797. PUBLISHED MAY 30, 1922.

158,419. A NONINTOXICATING, MALT, CEREAL, AND HOP BEVERAGE, CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL, SOLD AS A SOFT DRINK COMMONLY KNOWN AS NEAR BEER. THE CROWN BREWING CO. INC., Cincinnati, Ohio.
Filed April 10, 1922. Serial No. 161,969. PUBLISHED JUNE 6, 1922.

158,420. MEDICINE FOR GENERAL TONIC PURPOSES, ESPECIALLY FOR RHEUMATISM. JOHN D'ANNA, New York, N. Y.
Filed November 8, 1921. Serial No. 155,161. PUBLISHED MAY 16, 1922.

158,421. OINTMENT FOR THE TREATMENT OF RHEUMATISM AND NEURALGIC PAIN. WM. D. DAVIS, doing business as Standard Medical Company, Lansford, Pa.
Filed November 21, 1921. Serial No. 155,670. PUBLISHED MAY 30, 1922.

158,422. CERTAIN NAMED ELECTRICAL APPARATUS. THE DAYTON PUMP & MANUFACTURING COMPANY, Dayton, Ohio.
Filed February 2, 1922. Serial No. 158,759. PUBLISHED JUNE 27, 1922.

158,423. CERTAIN NAMED ELECTRICAL APPARATUS. DELTA-STAR ELECTRIC COMPANY, Chicago, Ill.
Filed February 13, 1922. Serial No. 159,247. PUBLISHED MAY 23, 1922.

158,424. ELECTRICAL HEATING ELEMENTS FOR SADIRONS, BRANDING IRONS, AND SOLDERING IRONS. THE DOVER MANUFACTURING COMPANY, Dover, Ohio.
Filed March 31, 1921. Serial No. 145,504. PUBLISHED JUNE 27, 1922.

158,425. PREPARATION FOR THE TREATMENT OF ULCEROUS WOUNDS OF LONG STANDING. FIDELIA M. DE MORALES, San Francisco, Calif.
Filed January 23, 1922. Serial No. 158,299. PUBLISHED MAY 23, 1922.

158,426. AUTOMOBILE FINISHES. DITZLER COLOR COMPANY, Detroit, Mich.
Filed August 29, 1921. Serial No. 152,323. PUBLISHED MARCH 21, 1922.

158,427. ELECTRICALLY-OPERATED VISIBLE TRAFFIC SIGNALS FOR USE ON AUTOMOTIVE VEHICLES. D-REX-U SAFETY SIGNAL COMPANY, Kansas City, Mo.
Filed November 21, 1921. Serial No. 155,669. PUBLISHED MAY 16, 1922.

158,428. HEATER CORDS. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed March 21, 1922. Serial No. 160,908. PUBLISHED JUNE 13, 1922.

158,429. NONALCOHOLIC FRUIT BEVERAGE AND FLAVORING THEREFOR. WALTER K. EARLE, doing business as American Fruit Products Company, Chicago, Ill.
Filed February 27, 1922. Serial No. 159,857. PUBLISHED JUNE 13, 1922.

158,430. FUSES. ECONOMY FUSE AND MANUFACTURING CO., Chicago, Ill.
Filed December 16, 1921. Serial No. 156,784. PUBLISHED MAY 9, 1922.

158,431. ILLUMINATED TRAFFIC MARKERS FOR STREETS AND ROADS. ELECTRICAL & SPECIALTY SUPPLY CO., Chicago, Ill.
Filed December 29, 1921. Serial No. 157,267. PUBLISHED MAY 9, 1922.

158,432. VEGETABLE FLOUR ADAPTED TO FORM AN ADHESIVE PASTE. THE EDIDO COMPANY, LTD., Liverpool, England.
Filed April 12, 1921. Serial No. 146,072. PUBLISHED MARCH 7, 1922.

158,433. OINTMENT FOR SKIN DISEASES. EXENE LABORATORIES, Boston, Mass.
Filed January 23, 1922. Serial No. 158,300. PUBLISHED MAY 23, 1922.

158,434. A CERTAIN NAMED MEDICINAL PREPARATION. DR. PETER FAHRNEY & SONS CO., Chicago, Ill.
Filed November 1, 1921. Serial No. 154,867. PUBLISHED MAY 30, 1922.

158,435. BIAS TAPE. ROBERT FERGUSON, New York, N. Y.
Filed November 3, 1921. Serial No. 154,971. PUBLISHED MARCH 7, 1922.

158,436. TOOTHBRUSHES. FLORENCE MANUFACTURING COMPANY, Northampton, Mass.
Filed February 17, 1922. Serial No. 159,460. PUBLISHED JUNE 13, 1922.

158,437. TOOTH, HAIR, NAIL, FLESH, AND LATHER BRUSHES. FLORENCE MANUFACTURING COMPANY, Northampton, Mass.
Filed February 1, 1922. Serial No. 158,707. PUBLISHED JUNE 20, 1922.

158,438. WATCHES. PAUL FORBRIGER, doing business as Paul Forbriger & Co., New York, N. Y.
Filed November 5, 1921. Serial No. 155,055. PUBLISHED MAY 9, 1922.

158,439. COLLARS. FRANK & CO., Nashville, Tenn.
Filed October 24, 1921. Serial No. 154,498. PUBLISHED JUNE 6, 1922.

158,440. LINIMENT. A. JAY FREEMAN, Chicago, Ill.
Filed November 21, 1921. Serial No. 155,679. PUBLISHED MAY 16, 1922.

158,441. CANNED FRUITS, FISH, AND VEGETABLES; SPICES, PEANUT BUTTER, FLAVORING EXTRACTS, VINEGAR, SALAD OIL, MAYONNAISE. FEDERAL GROCERY CO., Los Angeles, Calif.
Filed November 1, 1921. Serial No. 154,870. PUBLISHED JUNE 6, 1922.

158,442. INSECTICIDES. GARDEN CHEMICAL CO. INC., New York, N. Y.
Filed January 19, 1922. Serial No. 158,117. PUBLISHED MAY 23, 1922.

158,443. NUT-KERNEL PASTE. THE GASCO SPECIALTY COMPANY, INC., New York, N. Y.
Filed November 5, 1921. Serial No. 155,056. PUBLISHED JUNE 6, 1922.

158,444. CERTAIN NAMED ELECTRICAL APPARATUS. GEBRÜDER SIEMENS & COMPANY, Berlin-Lichtenberg, Germany.
Filed August 20, 1920. Serial No. 136,314. PUBLISHED MAY 9, 1922.

158,445. CLOCKS. WILLIAM L. GILBERT CLOCK COMPANY, Winsted, Conn.
Filed March 2, 1922. Serial No. 160,059. PUBLISHED MAY 23, 1922.

158,446. PUNCTURE-HEALING COMPOSITION FOR PNEUMATIC TIRES. ANGUS GRANT, Edmonton, Alberta, Canada.
Filed October 24, 1921. Serial No. 154,499. PUBLISHED MARCH 14, 1922.

158,447. DRY BATTERIES. W. T. GRANT COMPANY, New York, N. Y.
Filed March 24, 1922. Serial No. 161,184. PUBLISHED JUNE 27, 1922.

158,448. CANNED SARDINES. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J.
Filed December 7, 1921. Serial No. 156,346. PUBLISHED JUNE 6, 1922.

158,449. DYES AND DYESTUFFS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed October 24, 1921. Serial No. 154,508. PUBLISHED MAY 23, 1922.

158,450. A SPARK-PLUG EXTENSION. H. AND A. ACCESSORIES, Chicago, Ill.
Filed April 12, 1922. Serial No. 162,176. PUBLISHED JUNE 13, 1922.

158,451. SALVE FOR PILES, BURNS, SORE THROAT, TONSILLITIS, BOILS, AND STIFF NECK. MEYER HARRIS, doing business as Zoodack Manufacturing Co., Aiken, S. C.
Filed January 21, 1922. Serial No. 158,232. PUBLISHED MAY 23, 1922.

158,452. ELECTRIC-LAMP SOCKETS, ELECTRIC-LAMP COVER SOCKETS, AND ELECTRIC-LAMP PLUGS. HARTER MFG. COMPANY, Chicago, Ill.
Filed March 26, 1921. Serial No. 145,264. PUBLISHED MAY 9, 1922.

158,453. COLLARS, CUFFS, AND CRAVATS FOR MEN AND WOMEN, KNITTED AND TEXTILE UNDERWEAR FOR MEN AND WOMEN, AND OUTER SHIRTS FOR MEN. J. HAYEM & CIE., Paris, France.
Filed August 30, 1921. Serial No. 152,373. PUBLISHED MAY 16, 1922.

158,454. SALVE FOR BOILS, BURNS, BLOOD POISON, OR ANY INFECTED SORE. HEAL-O PRODUCTS CO., Pittsburgh, Pa.
Filed December 5, 1921. Serial No. 156,277. PUBLISHED MAY 9, 1922.

158,455. READY-MIXED PAINTS. HIRAM H. HIRSCH, Philadelphia, Pa.
Filed January 31, 1921. Serial No. 142,999. PUBLISHED OCTOBER 11, 1921.

158,456. READY-MIXED PAINTS, OIL PAINTS, COMBINATION WHITE LEAD, PAINT ENAMELS, ARTISTS' COLORS. HOBOKEN WHITE LEAD & COLOR WORKS, INC., Hoboken, N. J.
Filed December 15, 1920. Serial No. 141,104. PUBLISHED MARCH 21, 1922.

158,457. COUGH DROPS AND COUGH CANDY. HOLGER PETTERSEN, doing business as Pett Products Co., Chicago, Ill.
Filed December 12, 1921. Serial No. 156,597. PUBLISHED MAY 16, 1922.

158,458. GOLF BALLS. HOLMAC, INC., New York, N. Y.
Filed October 20, 1921. Serial No. 154,364. PUBLISHED JUNE 20, 1922.

158,459. FIREPROOF PAINTS AND VARNISHES. NEVIL MONROE HOPKINS, New York, N. Y.
Filed December 20, 1921. Serial No. 156,966. PUBLISHED MAY 2, 1922.

158,460. DRY PASTE, AND READY-MIXED PAINT. INDUSTRIAL PAINT COMPANY, Leetsdale Borough and Fair Oaks Borough, Pa.
Filed February 7, 1922. Serial No. 158,982. PUBLISHED MARCH 21, 1922.

158,461. WATCHES AND CLOCKS. ROBT. H. INGERSOLL & BRO., New York, N. Y.
Filed January 26, 1922. Serial No. 158,474. PUBLISHED MAY 23, 1922.

158,462. WATCHES AND CLOCKS. ROBT. H. INGERSOLL & BRO., New York, N. Y.
Filed January 26, 1922. Serial No. 158,475. PUBLISHED MAY 23, 1922.

158,463. CERTAIN NAMED TOILET AND MEDICINAL PREPARATIONS. FREDERICK F. INGRAM COMPANY, Detroit, Mich.
Filed November 7, 1921. Serial No. 155,096. PUBLISHED MAY 23, 1922.

158,464. CERTAIN NAMED TOILET AND MEDICINAL PREPARATIONS. FREDERICK F. INGRAM COMPANY, Detroit, Mich.
Filed November 7, 1921. Serial No. 155,098. PUBLISHED MAY 23, 1922.

158,465. FACE-CLEANSING CREAM, A FACE CREAM, AN ANTISEPTIC BEAUTY BALM, HAIR TONIC, AND HAIR-CURLING FLUID. TULA E. ISAACS, doing business as Dorothy Perkins Toilet Goods Company, Dallas, Tex.
Filed November 25, 1921. Serial No. 155,890. PUBLISHED MAY 23, 1922.

158,466. CHRONOMETERS, WATCHES, CLOCKS, WRIST WATCHES, AND SAUTOIR WATCHES. HARRY E. JACOBI, Baltimore, Md.
Filed April 10, 1922. Serial No. 162,014. PUBLISHED JUNE 27, 1922.

158,467. GRANULAR EFFERVESCENT SALT. JADS SALTS COMPANY, Jersey City, N. J.
Filed July 14, 1922. Serial No. 166,886. Publication waived.

158,468. BOOTS AND SHOES OF LEATHER. THE JUVENILE SHOE CORPORATION OF AMERICA, Carthage, Mo.
Filed January 17, 1922. Serial No. 158,044. PUBLISHED MAY 23, 1922.

158,469. HAIR BLEACH. JOSEPH HENRY KARP, New York, N. Y.
Filed January 19, 1922. Serial No. 158,128. PUBLISHED MAY 23, 1922.

158,470. WATCHES AND WATCH MOVEMENTS. KATZ & OGUSH, INC., New York, N. Y.
Filed January 26, 1922. Serial No. 158,478. PUBLISHED MAY 23, 1922.

158,471. CLOCKS AND WATCHES. KEITH-LANDIS CORPORATION, Chicago, Ill.
Filed December 30, 1921. Serial No. 157,399. PUBLISHED MAY 16, 1922.

158,472. ELECTRIC DISH-WASHING MACHINES. KNOX MOTORS COMPANY, Springfield, Mass.
Filed December 3, 1921. Serial No. 156,227. PUBLISHED MARCH 14, 1922.

158,473. UNION AND ACID DYES. H. KOHNSTAMM & Co., New York, N. Y., assignor to H. Kohnstamm & Co., Inc., a Corporation of New York.
Filed January 14, 1922. Serial No. 157,928. PUBLISHED MAY 23, 1922.

158,474. PROPRIETARY MEDICINES—NAMELY, PAIN EXPELLER, STOMACH AND BOWEL REMEDIES. FRANK J. KOZLOWSKI, Detroit, Mich.
Filed October 21, 1921. Serial No. 154,410. PUBLISHED MAY 16, 1922.

158,475. MALT EXTRACTS. HERMAN KRAUSS, Toledo, Ohio.
Filed April 17, 1922. Serial No. 162,422. PUBLISHED JUNE 6, 1922.

158,476. DENTAL TOOLS OR APPLIANCES. KUROMS SUPPLY COMPANY, New York, N. Y.
Filed February 18, 1921. Serial No. 143,765. PUBLISHED MARCH 7, 1922.

158,477. ELECTRICAL WARNING SIGNALS—NAMELY, LAMPS, HORNS, AND STOP SIGNALS FOR MOTOR VEHICLES. E. A. LABORATORIES, INC., Brooklyn, N. Y.
Filed November 17, 1921. Serial No. 155,490. PUBLISHED JUNE 27, 1922.

158,478. FACE CREAMS. HENRIETTA LEWIS, Chicago, Ill.
Filed December 10, 1921. Serial No. 156,536. PUBLISHED MAY 30, 1922.

158,479. ELECTRIC LAMP. LIGHT-SIGHT PRODUCTS CORPORATION, Pierre, S. Dak., and Warren, Pa.
Filed February 20, 1922. Serial No. 159,601. PUBLISHED JUNE 27, 1922.

158,480. CORSETS, HOSE SUPPORTERS, ABDOMINAL BELTS, BRASSIÈRES, SPINE BRACES, MATERNITY DRESSES, AND UNDERSKIRTS. ALBATHA H. LOCKWOOD, Hartford, Conn.
Filed October 12, 1921. Serial No. 154,034. PUBLISHED MAY 2, 1922.

158,481. ROUGE, COLD CREAM, LIP STICKS, TOILET WATER, TALCUM POWDER, AND PERFUME. LOURNAY, INC., New York, N. Y.
Filed December 13, 1921. Serial No. 156,645. PUBLISHED MAY 16, 1922.

158,482. ROUGE, COLD CREAM, LIP STICKS, TOILET WATER, TALCUM POWDER, AND PERFUME. LOURNAY, INC., New York, N. Y.
Filed December 13, 1921. Serial No. 156,646. PUBLISHED MAY 16, 1922.

158,483. ROUGE, COLD CREAM, LIP STICKS, TOILET WATER, TALCUM POWDER, AND PERFUME. LOURNAY, INC., New York, N. Y.
Filed December 13, 1921. Serial No. 156,647. PUBLISHED MAY 16, 1922.

158,484. ROUGE, COLD CREAM, LIP STICKS, TOILET WATER, TALCUM POWDER, AND PERFUME. LOURNAY, INC., New York, N. Y.
Filed December 13, 1921. Serial No. 156,648. PUBLISHED MAY 16, 1922.

158,485. ELECTRIC DISH-WASHING MACHINES. ARTHUR S. LOVELAND, doing business as Paradise Appliance Company, Detroit, Mich.
Filed April 8, 1922. Serial No. 161,928. PUBLISHED JUNE 27, 1922.

158,486. CLOCKS. JAMES MCCREERY & COMPANY, New York, N. Y.
Filed January 21, 1922. Serial No. 158,243. PUBLISHED JUNE 27, 1922.

158,487. INTERNAL MEDICINE FOR THE RELIEF OF ASTHMA, HAY FEVER, CROUP, COUGHS, COLDS. EDWARD MCDONNELL, doing business as Edw. McDonnell & Co., Smiths Ferry, Pa.
Filed January 19, 1922. Serial No. 158,135. PUBLISHED JUNE 6, 1922.

158,488. TELEPHONE RECEIVING SETS AND RADIO RECEIVING SETS. THE MAGNAVOX COMPANY, Oakland, Calif.
Filed March 30, 1922. Serial No. 161,500. PUBLISHED JUNE 13, 1922.

158,489. TELEPHONE RECEIVING SETS AND RADIO RECEIVING SETS. THE MAGNAVOX COMPANY, Oakland, Calif.
Filed March 30, 1922. Serial No. 161,502. PUBLISHED JUNE 13, 1922.

158,490. TELEPHONE RECEIVING SETS AND RADIO RECEIVING SETS. THE MAGNAVOX COMPANY, Oakland, Calif.
Filed March 30, 1922. Serial No. 161,490. PUBLISHED JUNE 13, 1922.

158,491. ELECTRICAL PLUGS, ATTACHMENT PLUGS, CAPS, CORD CONNECTORS, AND HEATER CORD SETS. MAGNUS ELECTRIC CO. INC., New York, N. Y.
Filed April 5, 1922. Serial No. 161,784. PUBLISHED JUNE 13, 1922.

158,492. FACE AND LIP ROUGE. SIMON MARKMAN, New York, N. Y.
Filed January 14, 1922. Serial No. 157,936. PUBLISHED MAY 23, 1922.

158,493. COSMETIC FOR TREATING THE EYE BROWS. SIMON MARKMAN, New York, N. Y.
Filed January 14, 1922. Serial No. 157,937. PUBLISHED MAY 23, 1922.

158,494. ALARM CLOCKS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed March 31, 1922. Serial No. 161,536. PUBLISHED MAY 23, 1922.

158,495. CIGARS, CIGARETTES, SMOKING AND CHEWING TOBACCO. MI FAVORITA CIGAR COMPANY, INC., New York, N. Y.
Filed February 1, 1922. Serial No. 158,721. PUBLISHED JUNE 6, 1922.

158,496. ELECTRICAL SWITCHES. MONITOR CONTROLLER COMPANY, Baltimore, Md.
Filed March 21, 1922. Serial No. 161,010. PUBLISHED JUNE 13, 1922.

158,497. DEODORANTS. KENNETH W. MOORE, Chicago, Ill.
Filed December 12, 1921. Serial No. 156,591. PUBLISHED MAY 23, 1922.

158,498. RADIO RECEIVING APPARATUS. MORSE MANUFACTURING COMPANY, INC., Newark, N. J.
Filed April 10, 1922. Serial No. 162,025. PUBLISHED JUNE 13, 1922.

158,499. SYRINGES FOR MEDICAL PURPOSES. H. K. MULFORD COMPANY, Philadelphia, Pa.
Filed April 1, 1921. Serial No. 145,576. PUBLISHED APRIL 25, 1922.

158,500. MEN'S, WOMEN'S, AND CHILDREN'S LEATHER SHOES. MARTIN AND MARTIN, Chicago, Ill.
Filed January 18, 1922. Serial No. 158,089. PUBLISHED MAY 16, 1922.

158,501. RUBBER SOLES AND RUBBER HEELS. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J.
Filed February 10, 1922. Serial No. 159,168. PUBLISHED MAY 9, 1922.

158,502. SHOES MADE OF ALL LEATHER OR SHOES HAVING A LEATHER UPPER AND A RUBBER SOLE. WALTER H. MORE CO. INC., New York, N. Y.
Filed February 8, 1922. Serial No. 159,040. PUBLISHED JUNE 13, 1922.

158,503. MANUFACTURED CIGARS. HORMISDAS MORRIER, doing business as Bible Land Cigar Company, Portsmouth, N. H.
Filed April 22, 1921. Serial No. 146,516. PUBLISHED JUNE 13, 1922.

158,504. MANUFACTURED CIGARS. HORMISDAS MORRIER, doing business as Bible Land Cigar Company, Portsmouth, N. H.
Filed April 27, 1921. Serial No. 146,790. PUBLISHED JUNE 20, 1922.

158,505. SHOES OF LEATHER, FABRIC, AND COMBINATION. MORSE & BURT CO. INC., Brooklyn, N. Y.
Filed December 14, 1921. Serial No. 156,700. PUBLISHED MAY 2, 1922.

158,506. MALT EXTRACT. MARK J. MURPHY, Chicago, Ill.
Filed May 7, 1921. Serial No. 147,358. PUBLISHED JULY 26, 1921.

158,507. VERMIFUGE. N. AND H. COMPANY, Kansas City, Kans.
Filed November 23, 1921. Serial No. 155,825. PUBLISHED MAY 16, 1922.

158,508. CERTAIN NAMED ELECTRICAL DEVICES. NATIONAL STAMPING & ELECTRIC WORKS, Chicago, Ill.
Filed January 21, 1922. Serial No. 158,248. PUBLISHED MAY 9, 1922.

158,509. ELECTRIC HEATERS FOR PRINTING PRESSES. RUDOLF NITCH, doing business as Little Wonder Electric Heater Company, Cleveland, Ohio.
Filed March 13, 1922. Serial No. 160,622. PUBLISHED JUNE 13, 1922.

158,510. CIGARS MADE OF VARIOUS TOBACCOS. JOHN NORMAN MCCRARY, High Point, N. C.
Filed April 2, 1921. Serial No. 145,638. PUBLISHED JUNE 13, 1922.

158,511. CERTAIN NAMED WATCHCASES AND WATCHCASE GUARDS. NORTH AMERICAN WATCH COMPANY, Mansfield, Ohio.
Filed January 31, 1921. Serial No. 142,998. PUBLISHED JUNE 27, 1922.

158,512. RESTORATIVE AND CONSTRUCTIVE TONIC REMEDY. NURADIUM COMPANY, Chicago, Ill.
Filed January 16, 1922. Serial No. 158,021. PUBLISHED MAY 30, 1922.

158,513. HOSIERY. PARAMOUNT KNITTING COMPANY, Chicago, Ill.
Filed September 12, 1921. Serial No. 152,861. PUBLISHED APRIL 25, 1922.

158,514. BUTTERMILK TABLETS FOR MAKING ARTIFICIAL BUTTERMILK. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed November 21, 1921. Serial No. 155,704. PUBLISHED JUNE 6, 1922.

158,515. SPARK PLUGS. PATTEN MANUFACTURING COMPANY, Chattanooga, Tenn.
Filed December 15, 1921. Serial No. 156,749. PUBLISHED MAY 9, 1922.

158,516. CIGARS. PATTERSON AND HOFFMAN, Oklahoma, Okla.
Filed March 6, 1922. Serial No. 160,251. PUBLISHED JUNE 6, 1922.

158,517. ELECTRIC-LIGHTING SETS FOR CHRISTMAS TREES. PEERLESS LIGHT COMPANY, Chicago, Ill.
Filed December 17, 1921. Serial No. 156,853. PUBLISHED MAY 9, 1922.

158,518. AUTOMATICALLY ELECTRICALLY-CONTROLLED DRAFT DEVICES FOR HEATING APPARATUS. PHILADELPHIA STEAM HEATING CO., Philadelphia, Pa.
Filed February 20, 1922. Serial No. 159,611. PUBLISHED JUNE 27, 1922.

158,519. WATCHES. I. PRESS & SONS, Philadelphia, Pa.
Filed March 25, 1921. Serial No. 145,229. PUBLISHED MAY 9, 1922.

158,520. ELECTRIC MOTORS. RACINE ELECTRIC CO., Racine, Wis.
Filed April 10, 1922. Serial No. 162,059. PUBLISHED JUNE 27, 1922.

158,521. POISON FOR RATS, MICE, AND INSECTS, IN BOTH CAKE AND PASTE FORM. THE RAT BISCUIT COMPANY, Springfield, Ohio.
Filed December 12, 1921. Serial No. 156,598. PUBLISHED MAY 30, 1922.

158,522. TABLETS FOR THE TREATMENT OF ANÆMIA. LOSS OF APPETITE, AND AS A GENERAL TONIC. THE RAISIN PRODUCTS CO. OF AMERICA, New York, N. Y.
Filed January 10, 1922. Serial No. 157,734. PUBLISHED MAY 23, 1922.

158,523. CIGARS. REID, MURDOCH & Co., Chicago, Ill.
Filed December 16, 1921. Serial No. 156,804. PUBLISHED JUNE 6, 1922.

158,524. PLIABLE BENDABLE DOLL. KARL H. ROGERS, Philadelphia, Pa.
Filed December 27, 1920. Serial No. 141,532. PUBLISHED JUNE 20, 1922.

158,525. LOTION FOR DRESSING THE HAIR. CHARLES F. ROOT, doing business as Suaveline Mfg. Co., New York, N. Y.
Filed November 23, 1921. Serial No. 155,831. PUBLISHED MAY 16, 1922.

158,526. A MEDICATED CONFECTION USEFUL IN STIMULATING THE PROCESS OF DIGESTION. DWIGHT C. ROSE, Cambridge, Mass., assignor to The Vitamint Company, Incorporated, a Corporation of Massachusetts.
Filed May 24, 1921. Serial No. 148,168. PUBLISHED SEPTEMBER 27, 1921.

158,527. SAFETY RAZORS. SAFETY-ETTE RAZOR COMPANY, Los Angeles, Calif.
Filed November 7, 1921. Serial No. 155,127. PUBLISHED MARCH 21, 1922.

158,528. WASHBOILERS. SARGOY BROS., Brooklyn, N. Y.
Filed November 23, 1921. Serial No. 155,837. PUBLISHED JUNE 27, 1922.

158,529. CIGARS. EUGENE J. SCHAEFER, executor of the estate of Joseph J. Schaefer, deceased, doing business as Joseph J. Schaefer, Dayton, Ohio.
Filed April 29, 1921. Serial No. 146,994. PUBLISHED JUNE 6, 1922.

158,530. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL, BY VOLUME, SOLD AS A SOFT DRINK. H. C. SCHRANCK Co., Milwaukee, Wis.
Filed January 6, 1920. Serial No. 126,877. PUBLISHED JUNE 20, 1922.

158,531. MALT-EXTRACT SIRUP FOR FOOD PURPOSES. SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y.
Filed May 14, 1921. Serial No. 147,744. PUBLISHED JUNE 13, 1922.

158,532. CIGARS. WARD P. ROBERTS, Milford, Mass.
Filed January 14, 1920. Serial No. 127,150. PUBLISHED JUNE 6, 1922.

158,533. FURNITURE POLISH. LESTER E. SCOTT, trading as L. E. Scott Co., Southington, Conn.
Filed November 2, 1921. Serial No. 154,935. PUBLISHED MAY 2, 1922.

158,534. OLIVE OIL. G. SENSAT, HIJOS, Barcelona, Spain.
Filed November 14, 1921. Serial No. 155,345. PUBLISHED JUNE 6, 1922.

158,535. LUBRICATING OILS AND GREASES. JOHN SEXTON AND COMPANY, Chicago, Ill.
Filed October 1, 1921. Serial No. 153,624. PUBLISHED MARCH 7, 1922.

158,536. ELECTRIC-LIGHTING FIXTURES AND PARTS. SOLOMON SHARLIN, Trenton, N. J.
Filed December 23, 1921. Serial No. 157,081. PUBLISHED JUNE 27, 1922.

158,537. IGNITION ACCESSORIES—NAMELY, SPARK PLUGS, TRANSFORMERS, AND MAGNETOS. JOHN SHARP, doing business as She-ll Fire Spark Plug Co., Cleveland, Ohio.
Filed April 25, 1921. Serial No. 146,740. PUBLISHED MAY 16, 1922.

158,538. LADIES' AND MISSES' DRESSES. LEVY SHULMAN & Co., INC., New York, N. Y.
Filed December 12, 1921. Serial No. 156,605. PUBLISHED MAY 30, 1922.

158,539. VELOCIPEDES. OTTO W. SIEBERT, Gardner, Mass.
Filed December 27, 1921. Serial No. 157,184. PUBLISHED FEBRUARY 14, 1922.

158,540. MEN'S AND BOYS' OVERALLS, OVERALL COATS AND PANTS. FORT SMITH GARMENT Co., Fort Smith, Ark.
Filed February 9, 1921. Serial No. 143,366. PUBLISHED SEPTEMBER 27, 1921.

158,541. SALAD DRESSING. JANE B. SMITH, doing business as Jane B. Smith, Chicago, Ill.
Filed October 24, 1921. Serial No. 154,536. PUBLISHED JUNE 6, 1922.

158,542. PUTTY, PAINTS, AND VARNISHES. SOCIÉTÉ ANONYME DES ANCIENS ÉTABLISSEMENTS MUYLLE-FACON, Roulers, Belgium.
Filed September 1, 1921. Serial No. 152,486. PUBLISHED FEBRUARY 28, 1922.

158,543. CHEMICAL AND PHARMACEUTICAL PREPARATION WHICH IS USED AS AN ANALGESIC, ANTIRHEUMATIC, ANTIPYRETIC. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed January 19, 1922. Serial No. 158,158. PUBLISHED MAY 23, 1922.

158,544. CERTAIN NAMED PORCELAIN INSULATING DEVICES. SQUARE D COMPANY, Detroit, Mich.
Filed March 16, 1921. Serial No. 144,889. PUBLISHED JUNE 27, 1922.

158,545. GUNNING COATS. STAR SPORTING GOODS Co., New York, N. Y.
Filed January 6, 1922. Serial No. 157,590. PUBLISHED JUNE 20, 1922.

158,546. CHEMICALS AND PAINTS, MORE PARTICULARLY LITHOPONE, PERMANENT ZINC PAINT HAVING ZINC SULPHIDE AS A BASE, UNAFFECTED BY LIGHT OR SUN RAYS. STE. ANE. DES INDUSTRIES CHIMIQUES WILSELE, Wilsele-les-Louvain, Belgium.
Filed February 7, 1922. Serial No. 159,000. PUBLISHED MAY 2, 1922.

158,547. WATCHES. STEIN & ELLBOGEN COMPANY, Chicago, Ill.
Filed July 21, 1921. Serial No. 150,778. PUBLISHED JUNE 20, 1922.

158,548. ELECTRIC-LIGHTING FIXTURES. ST. LOUIS BRASS MFG. Co., St. Louis, Mo.
Filed April 14, 1922. Serial No. 162,321. PUBLISHED JUNE 13, 1922.

158,549. A MEDICINE FOR THE TREATMENT OF THE STOMACH, LIVER, AND INTESTINES. ARTHUR H. SWINBURNE, doing business as Mortona Medicine Co., Middletown, N. Y.
Filed January 21, 1922. Serial No. 158,265. PUBLISHED JUNE 6, 1922.

158,550. LYE. P. C. TOMSON & Co., Philadelphia, Pa.
Filed December 10, 1921. Serial No. 156,554. PUBLISHED MAY 16, 1922.

158,551. TIMERS FOR INTERNAL-COMBUSTION ENGINES. THE U & J CARBURETOR COMPANY, Chicago, Ill.
Filed July 6, 1920. Serial No. 134,616. PUBLISHED JUNE 13, 1922.

158,552. ELECTRIC SIGNAL AND TAIL LIGHTS FOR USE ON AUTOMOBILES. THE U. S. AUTOMOBILE INDICATOR Co., Bridgeport, Conn.
Filed January 6, 1922. Serial No. 157,593. PUBLISHED JUNE 27, 1922.

158,553. TOOTHBRUSHES. UNITED DRUG COMPANY, Boston, Mass.
Filed March 10, 1922. Serial No. 160,520. PUBLISHED JUNE 6, 1922.

158,554. TOOTHBRUSHES. UNITED DRUG COMPANY, Boston, Mass.
Filed April 4, 1922. Serial No. 161,758. PUBLISHED JUNE 6, 1922.

158,555. CEMENT SUCH AS IS USED IN THE MANUFACTURE AND REPAIRING OF BOOTS AND SHOES. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed May 21, 1921. Serial No. 148,043. PUBLISHED JUNE 20, 1922.

158,556. CERTAIN DENTAL TOOLS. THE UNITED STATES DENTAL MANUFACTURING Co., Cleveland, Ohio.
Filed February 24, 1921. Serial No. 144,007. PUBLISHED MAY 2, 1922.

158,557. CERTAIN DENTAL TOOLS. THE UNITED STATES DENTAL MANUFACTURING Co., Cleveland, Ohio.
Filed March 25, 1921. Serial No. 145,245. PUBLISHED MAY 2, 1922.

158,558. COCONUT OIL FOR GENERAL PURPOSES. UNITED VEGETABLE OIL REFINERY, INC., Brooklyn, N. Y.
Filed October 15, 1921. Serial No. 154,161. PUBLISHED MARCH 7, 1922.

158,559. TUNIS DATES, COLMAR GRAPES, MUSCATEL GRAPES, AND BELGIAN ENDIVES, IN THEIR NATURAL STATE. VAN DYK & LINDSAY INC., New York, N. Y.
Filed December 1, 1921. Serial No. 156,184. PUBLISHED JUNE 6, 1922.

158,560. CANNED FRUITS AND CANNED VEGETABLES. VIRDEN PACKING COMPANY, Oakland, Calif.
Filed November 1, 1921. Serial No. 154,900. PUBLISHED MAY 30, 1922.

158,561. CANNED FRUITS AND CANNED VEGETABLES. VIRDEN PACKING COMPANY, Oakland, Calif.
Filed November 1, 1921. Serial No. 154,901. PUBLISHED JUNE 6, 1922.

158,562. CANNED FRUITS AND CANNED VEGETABLES. VIRDEN PACKING COMPANY, Oakland, Calif.
Filed November 1, 1921. Serial No. 154,904. PUBLSHED JUNE 6, 1922.

158,563. PORTABLE ELECTRIC LAMPS. THE WATERBURY METAL WARES Co., Waterbury, Conn.
Filed April 15, 1922. Serial No. 162,364. PUBLISHED JUNE 13, 1922.

158,564. LINIMENT FOR USE IN THE TREATMENT OF RHEUMATISM. JAMES H. WAUGH, doing business as Waughrine Medicine Co., Washington, D. C.
Filed January 21, 1922. Serial No. 158,272. PUBLISHED MAY 23, 1922.

158,565. REFLECTORS FOR PREVENTING GLARE FOR ELECTRIC HEADLIGHTS. THE WAY-LITE REFLECTOR COMPANY, Cleveland, Ohio.
Filed January 23, 1922. Serial No. 158,347. PUBLISHED MAY 9, 1922.

158,566. FRESH FRUITS PUT UP IN BARRELS, BOXES, AND CRATES. WALTER T. WEAVER, Highland, N. Y.
Filed November 26, 1921. Serial No. 155,981. PUBLISHED MAY 30, 1922.

158,567. CLOCKS, WATCHES, AND COMPONENT PARTS THEREOF. WESTERN CLOCK Co., Peru, Ill.
Filed February 4, 1922. Serial No. 158,908. PUBLISHED MAY 23, 1922.

158,568. RADIO TELEPHONE AND TELEGRAPH TRANSMITTERS AND RECEIVERS, AND CERTAIN NAMED PARTS AND ACCESSORIES. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed April 13, 1922. Serial No. 162,277. PUBLISHED JUNE 13, 1922.

158,569. BATTERY CHARGERS AND ELECTRICAL RECTIFIERS. WESTINGHOUSE UNION BATTERY Co., Swissvale, Pa.
Filed April 1, 1922. Serial No. 161,664. PUBLISHED JUNE 13, 1922.

158,570. VARNISH. WILLIAM ZINSSER & COMPANY, INCORPORATED, New York, N. Y.
Filed January 19, 1922. Serial No. 158,167. PUBLISHED MARCH 21, 1922.

158,571. VARNISH. WILLIAM ZINSSER & COMPANY, INCORPORATED, New York, N. Y.
Filed January 19, 1922. Serial No. 158,168. PUBLISHED MARCH 21, 1922.

158,572. WATCHES. MAX A. ZOLLA, Chicago, Ill.
Filed March 8, 1922. Serial No. 160,377. PUBLISHED MAY 23, 1922.

158,573. NONINTOXICATING, MALTLESS, NONCEREAL BEVERAGES CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL, BY VOLUME, SOLD AS A SOFT DRINK. GEBR. ZUPPINGER, Meilen, Switzerland.
Filed January 12, 1921. Serial No. 142,189. PUBLISHED JUNE 20, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

SEPTEMBER 5, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

158,574. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULES BERNARD BENGUE, Paris, France. Filed Aug. 27, 1921. Serial No. 152,234.

BENGUÉ

Particular description of goods.—Medicinal Preparations—viz, Blood and Nerve Tonic, Treatment for Constipation, Rheumatism, Neuralgia, and Gout, Headache, Stiff Muscles and Sore Throat, Anæmia, Malaria, Neurasthenia, Tuberculosis, and Certain Diseases of the Skin.
Claims use since Jan. 8, 1913.

158,575. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD G. BINZ, Los Angeles, Calif. Filed May 4, 1922. Serial No. 165,318.

EUCALYPTUS BINZ PRODUCTS

Particular description of goods.—Cough Drops.
Claims use since Sept. 1, 1910.

158,576. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATE PRODUCTS COMPANY, Baltimore, Md. Filed Jan. 19, 1922. Serial No. 158,112.

SANS CRÊME

Trade-mark "Sans Crême."
Particular description of goods.—Candy Comprised Wholly or in Part of Chocolate.
Claims use since on or about Nov. 5, 1921.

158,577. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GARLOUGH AND NAVE, Springfield, Ohio. Filed July 9, 1921. Serial No. 150,192.

GARLOUGH & NAVE

Particular description of goods.—Insecticides.
Claims use since May 2, 1921.

158,578. (CLASS 45. BEVERAGES, NONALCOHOLIC.) WELLINGTON C. HATHAWAY, doing business as Mississippi Bottling Co., Hattiesburg, Miss. Filed June 29, 1922. Serial No. 166,231.

HATH'S PUNCH

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since Aug. 15, 1920.

158,579. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HELLER & MERZ COMPANY, Newark, N. J., and New York, N. Y. Filed June 7, 1919. Serial No. 119,306.

Pheno

Particular description of goods.—Direct Color Dyes.
Claims use since 1904.

158,580. (CLASS 45. BEVERAGES, NONALCOHOLIC.) KIMBERLY CLUB SHERRY CO., New York, N. Y. Filed June 29, 1922. Serial No. 166,234.

KIMBERLY CLUB

SHERRY JUICE

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as Soft Drinks and Sirup for Same.
Claims use since Sept. 30, 1910.

158,581. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OSCAR C. MACK, doing business as O. C. Mack and Co., St. Louis, Mo. Filed May 4, 1922. Serial No. 163,340.

THE VISIBLE

Particular description of goods.—Chemical for Testing Woolen and Silk Fabrics.
Claims use since May 5, 1903.

158,582. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POULTRY PRODUCERS OF CENTRAL CALIFORNIA, INC., San Francisco, Calif. Filed Feb. 1, 1921. Serial No. 143,058.

NULAID

Particular description of goods.—Eggs.
Claims use since July, 1919.

158,583. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REMINGTON SALT COMPANY, Ithaca, N. Y. Filed May 8, 1922. Serial No. 163,538.

REMINGTON

Particular description of goods.—Salt.
Claims use since on or about Jan. 1, 1902.

158,584. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SCHOLL MANUFACTURING COMPANY, Chicago, Ill. Filed Apr. 4, 1922. Serial No. 161,754.

Dr Scholl's

Particular description of goods.—Preparations for Use in the Treatment of Foot Troubles.
Claims use since on or about May 1, 1916.

158,585. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SCHOLL MANUFACTURING COMPANY, Chicago, Ill. Filed Apr. 4, 1922. Serial No. 161,756.

Dr Scholl's

Particular description of goods.—Preparations for Use in the Treatment of Foot Troubles.
Claims use since 1915.

158,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JEAN SÉNÉGAS, New York, N. Y. Filed Apr. 8, 1922. Serial No. 161,945.

JEAN'S

Particular description of goods.—Cosmetics, Particularly Solutions for Lightening the Hair.
Claims use since 1902.

158,587. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRACY-WALDRON FRUIT COMPANY, Lodi, Calif. Filed Sept. 16, 1921. Serial No. 153,019.

Besgrade

Particular description of goods.—Fresh Grapes.
Claims use since July 16, 1921.

TRADE-MARK REGISTRATIONS RENEWED.

20,628. BOLTS FOR CARRIAGES, MACHINES, PLOWS, ETC. Registered January 19, 1892. THE UPSON NUT COMPANY, Unionville, Conn.; The Bourne-Fuller Company, Cleveland, Ohio, assignee. Renewed January 19, 1922.

21,267. TEA. Registered June 7, 1892. PAXTON & GALLAGHER, Omaha, Nebr.; Paxton & Gallagher Co., a Corporation of Nebraska, assignee. Renewed June 7, 1922.

21,268. TEA. Registered June 7, 1892. PAXTON & GALLAGHER, Omaha, Nebr.; Paxton & Gallagher Co., a Corporation of Nebraska. Renewed June 7, 1922.

21,291. MUSICAL INSTRUMENTS. Registered June 14, 1892. JEROME THIBOUVILLE-LAMY, Paris, France; Jerome Thibouville-Lamy & Cie., successor. Renewed June 14, 1922.

21,292. MUSICAL INSTRUMENTS. Registered June 14, 1892. JEROME THIBOUVILLE-LAMY, Paris, France; Jerome Thibouville-Lamy & Cie., successor. Renewed June 14, 1922.

21,676. LAUNDRY SOAP. Registered August 23, 1892. BENJAMIN BROOKE & COMPANY, Philadelphia, Pa.; Lever Brothers Company, a Corporation of Maine, assignee. Renewed August 23, 1922.

21,711. SATIN AND VELVET RIBBONS. Registered August 30, 1892. PASSAVANT & CO., New York, N. Y. Renewed August 30, 1922.

21,847. TEA. Registered October 4, 1892. PAXTON & GALLAGHER, Omaha, Nebr. Paxton & Gallagher Co., a Corporation of Nebraska, assignee. Renewed October 4, 1922.

21,868. IMPRESSION PAPER. Registered October 18, 1892. HENRY C. DAVISON, New York, N. Y. Renewed October 18, 1922.

21,941. TEA. Registered November 8, 1892. PAXTON & GALLAGHER, Omaha, Nebr.; Paxton & Gallagher Co., a Corporation of Nebraska, assignee. Renewed November 8, 1922.

22,052. STOVES, RANGES, AND FURNACES. Registered November 22, 1892. CO-OPERATIVE FOUNDRY COMPANY, Rochester, N. Y. Renewed November 22, 1922.

22,067. CERTAIN HAIR CLIPPERS FOR TOILET USE. Registered November 29, 1892. AMERICAN SHEARER MANUFACTURING COMPANY, Nashua, N. H. Renewed November 29, 1922.

22,114. MEDICINES FOR THE CURE OF BLOOD DISEASES. Registered December 6, 1892. GREEN L. FOWLER, Clarksburg, Mo. Renewed December 6, 1922.

22,224. WRINGERS. Registered December 20, 1892. THE AMERICAN WRINGER COMPANY, Providence, R. I., and New York and Auburn, N. Y. Renewed December 20, 1922.

22,225. WRINGERS. Registered December 20, 1892. THE AMERICAN WRINGER COMPANY, Providence, R. I., and New York and Auburn, N. Y. Renewed December 20, 1922.

22,226. WRINGERS. Registered December 20, 1892. THE AMERICAN WRINGER COMPANY, Providence, R. I., and New York and Auburn, N. Y. Renewed December 20, 1922.

22,266. A MEDICINAL PREPARATION FOR DISEASES OF THE LIVER, STOMACH, OR BOWELS. Registered December 27, 1892. JAMES SCOTT ROBINSON, Memphis, Tenn. Renewed December 27, 1922.

22,343. SHELLED POP CORN. Registered January 17, 1893. THE ALBERT DICKINSON COMPANY, Chicago, Ill. Renewed January 17, 1923.

22,399. CANNED FRUITS, VEGETABLES, FISH, MEAT, OYSTERS, CATCHUP, AND SOUP. Registered January 31, 1893. ALBERT F. REMY & CO., Mansfield, Ohio. Renewed January 31, 1923.

22,405 CARBONATED AND NATURAL MINERAL WATER AND GINGER ALE. Registered January 31, 1893. BETHESDA MINERAL SPRING COMPANY, Waukesha, Wis. Renewed January 31, 1923.

LABELS

REGISTERED SEPTEMBER 5, 1922.

24,984.—*Title:* "ABBATE'S PASTRY WAFER CHOCOLATE COATED." (For Wafers and Chips of Pastry or Candy and Which are Coated with Chocolate or Other Similar Edible Substance.) SALVATORE ABBATE, doing business as Premier Sugar Cone and Wafer Co., Newport Beach, Calif. Filed August 3, 1922.

24,985.—*Title:* "FYR-PRUF." (For Packages Containing Stove and Nickel Polish.) AMERICAN AMMONE COMPANY, New York, N. Y. Filed August 17, 1921.

24,986.—*Title:* "BAMBINO BRAND." (For Tin Cans Containing Tomato Paste.) ATLANTIC CANNING COMPANY, Rehoboth Beach, Del. Filed July 11, 1922.

24,987.—*Title:* "KNOLL GARDENS PRODUCTS." (For Garden Products.) ANNE D. BECK, Milton, Mass. Filed June 24, 1922.

24,988.—*Title:* "WILD WAVE CHOCOLATES." (For Candies.) BLANKE-WENNEKER CANDY CO., St. Louis, Mo. Filed July 5, 1922.

24,989.—*Title:* "PEG O' ME HEART." (For a Game of Solitaire.) LOUIS BLATZ, La Mirada, Calif. Filed August 7, 1922.

24,990.—*Title:* "SOUTHERN SILK TISSUE." (For Toilet Paper.) THE B. F. BOND PAPER CO., Baltimore, Md. Filed September 29, 1921.

24,991.—*Title:* "RUXTON SILK TISSUE." (For Toilet Paper.) THE B. F. BOND PAPER CO., Baltimore, Md. Filed September 29, 1921.

24,992.—*Title:* "BREHME'S CHOCOLATE PUDDING." (For a Preparation for Making Chocolate Pudding.) FRED BREHME, doing business as Brehme Products Co., Irvington, N. J. Filed July 3, 1922.

24,993.—*Title:* "BRONZE INK VARNISH." (For Bronze Ink Varnish and Gold Ink Powder.) ALEXANDER CHAMBLEY, doing business under the name of Gem Bronze Ink Co., Philadelphia, Pa. Filed August 5, 1922.

24,994.—*Title:* "SNOWFLAKE POP CORN." (For Pop-Corn Bags.) CONTINENTAL PAPER & RAG MILLS, New York, N. Y. Filed August 5, 1922.

24,995.—*Title:* "CHOCOLATES." (For Candy.) ROBERT GAIR COMPANY, New York, N. Y. Filed August 4, 1922.

24,996.—*Title:* "HARD CANDIES." (For Candy.) ROBERT GAIR COMPANY, New York, N. Y. Filed August 4, 1922.

24,997.—*Title:* "MILA." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. GLEMBY, INC. (now by change of name S. Glemby's Sons Co. Inc.), New York, N. Y. Filed July 5, 1921.

24,998.—*Title:* "CAMILLA HAIR NET." (For Hair Nets.) S. GLEMBY, INC. (now by change of name S. Glemby's Sons Co. Inc.), New York, N. Y. Filed July 5, 1921.

24,999.—*Title:* "SOPHIA." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. GLEMBY, INC. (now by change of name S. Glemby's Sons Co. Inc.), New York, N. Y. Filed July 6, 1921.

25,000.—*Title:* "SOPHIA." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. GLEMBY, INC. (now by change of name S. Glemby's Sons Co. Inc.), New York, N. Y. Filed July 6, 1921.

25,001.—*Title:* "REGINA." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. GLEMBY, INC. (now by change of name S. Glemby's Sons Co. Inc.), New York, N. Y. Filed July 6, 1921.

25,002.—*Title:* "JEAN DOUBLE STRAND HAIR NET." (For Hair Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed July 26, 1921.

25,003.—*Title:* "PINK LADY HAIR NET." (For Hair Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed September 20, 1921.

25,004.—*Title:* "THE TULIP HAIR NET." (For Hair Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed August 3, 1922.

25,005.—*Title:* "MOORE'S SINGLE STRAND HAIR NETS." (For Hair Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed August 3, 1922.

25,006.—*Title:* "THE SYMPHONY HAIR NET." (For Hair Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed August 3, 1922.

25,007.—*Title:* "SOUTH DAKOTA SEAL." (For Cigars.) J. M. GOODRICH, Aberdeen, S. Dak. Filed August 10, 1922.

25,008.—*Title:* "RED DEVIL RAT AND MOUSE EMBALMER." (For Rat Poison.) T. A. HARGRAVE, Dallas, Tex. Filed May 8, 1922.

25,009.—*Title:* "GRAPE-ADE." (For Grape-Flavored Sirup.) LEE M. HIRSCHLER, doing business as Hirschler & Co., Cincinnati, Ohio. Filed March 21, 1922.

25,010.—*Title:* "SAVOLY K Y X." (For Nail Polish.) HYDROX CHEMICAL CO. OF ILLINOIS, Chicago, Ill. Filed June 26, 1922.

25,011.—*Title:* "JEVNE'S." (For Chocolates.) H. JEVNE CO., Los Angeles, Calif. Filed August 10, 1922.

25,012.—*Title:* "JEVNE'S." (For Chocolates.) H. JEVNE CO., Los Angeles, Calif. Filed August 10, 1922.

25,013.—*Title:* "JEVNE'S." (For Chocolates.) H. JEVNE CO., Los Angeles, Calif. Filed August 10, 1922.

25,014.—*Title:* "THE K R PURE MALT EXTRACT." (For Cans Containing Pure Malt Extracts.) SIGMUND KATZ, New York, N. Y. Filed July 21, 1922.

25,015.—*Title:* "KELLOGG'S SHREDDED WHOLE WHEAT BISCUIT." (For a Food Specifically Known as "Kellogg's Shredded Whole Wheat Biscuit.") KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich. Filed May 18, 1922.

25,016.—*Title:* "KOFFEE-O." (For a Cereal Food Drink.) KOFFEE-O CEREAL CO., Tacoma, Wash. Filed August 11, 1922.

25,017.—*Title:* "BON TON." (For Bread.) ED. KOHN, doing business as Bon-Ton Bakery, Austin, Tex. Filed August 5, 1922.

25,018.—*Title:* "PYROLAC PYORRHEA REMEDY." (For Tooth Paste.) MAR-SON MEDICINE CO., St. Louis, Mo. Filed August 10, 1922.

25,019.—*Title:* "WAINWRIGHT PISTONS." (For Pistons.) McQUAY-NORRIS MFG. CO. OF INDIANA, INC., Connersville, Ind. Filed August 10, 1922.

25,020.—*Title:* "PAIN'S SALUTING THE FLAG." (For Fireworks and More Particularly on the Boxes and Wrapper in Which the Said Fireworks are Packed.) HENRY J. PAIN, New York, N. Y. Filed August 5, 1922.

25,021.—*Title:* "AMAMI BATH POWDER." (For Powder.) PRITCHARD & CONSTANCE, INC., New York, N. Y. Filed July 1, 1922.

25,022.—*Title:* "HI-GLO." (For a Polish for Hardwood Floors, White Woodwork, Furniture, Pianos, Oil Paintings, Automobiles.) UNIVERSAL PRODUCTS CO., Los Angeles, Calif. Filed June 27, 1922.

25,023.—*Title:* "CHALLAINE." (For Textile Fabrics.) LOUIS WALTHER MANUFACTURING COMPANY, Philadelphia, Pa. Filed August 4, 1922.

25,024.—*Title:* "LUCKY 13." (For Containers of Medicine Used as a Bowel Regulator.) R. D. WHITE, Los Angeles, Calif. Filed June 19, 1922.

25,025.—*Title:* "LINEN TORCHON FABRIC FINISH." (For Boxes of Stationery, Writing Tablets, Pound Papers, and Envelopes.) WHITE & WYCKOFF MFG. CO., Holyoke, Mass. Filed August 11, 1922.

25,026.—*Title:* "ABSORBINE, JR. THE ANTISEPTIC LINIMENT." (For Absorbine, Jr. Liniment.) W. F. YOUNG, INC., Springfield, Mass. Filed August 9, 1922.

PRINTS

REGISTERED SEPTEMBER 5, 1922.

6,293.—*Title:* "INK-EAU INDELIBLE DUPLICATING PENCIL." (For Advertising Purposes for Indelible Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed August 9, 1922.

6,294.—*Title:* "THE FILLING STATION." (For Advertising Purposes for Wheat Breakfast Food.) CREAM OF WHEAT CO., Minneapolis, Minn. Filed August 5, 1922.

6,295.—*Title:* "THE VALUE OF TIME." (For Advertising Purposes for Watches.) ELGIN NATIONAL WATCH COMPANY, Chicago, Ill. Filed August 7, 1922.

6,296.—*Title:* "THE VALUE OF TIME." (For Advertising Purposes for Watches.) ELGIN NATIONAL WATCH COMPANY, Chicago, Ill. Filed August 7, 1922.

6,297.—*Title:* "THE VALUE OF TIME." (For Advertising Purposes for Watches.) ELGIN NATIONAL WATCH COMPANY, Chicago, Ill. Filed August 7, 1922.

6,298.—*Title:* "THE VALUE OF TIME." (For Advertising Purposes for Watches.) ELGIN NATIONAL WATCH COMPANY, Chicago, Ill. Filed August 7, 1922.

6,299.—*Title:* "THE PLUM PUDDING." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed August 11, 1922.

6,300.—*Title:* "REPAIR TOOL INSTRUCTION CHART FOR CAR, TRUCK AND TRACTOR." (For Advertising Purposes for Tools to be Used in Connection with the Various Parts of an Automobile and for Instruction to the Parties Using Such Tools to Save Time and Secure Accuracy.) HINCKLEY-MYERS CO., Jackson, Mich. Filed August 9, 1922.

6,301.—*Title:* "SPUDS." (For Advertising Purposes for a Candy Specialty.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed August 7, 1922.

6,302.—*Title:* "ARE YOU GIVING YOUR HAIR THE RIGHT TREATMENT?" (For Advertising Purposes for Palmolive Shampoo.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed August 10, 1922.

6,303.—*Title:* "ROU ZETTE." (For Advertising Purposes for a Game.) ROUZETTE COMPANY, Cincinnati, Ohio. Filed August 9, 1922.

6,304.—*Title:* "SAY BUICK." (For Advertising Purposes for Automobiles.) ANNA ELIZABETH THOMPSON, Washington, D. C. Filed August 8, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE FESENMEIER.

Decided August 8, 1922.

1. CLAIMS—PRODUCT DEFINED BY THE PROCESS.

The rule against allowing claims for a product defined by the steps of the process of producing it is well enough settled, and the objections to the violation of the rule are material and should not be lightly disregarded. Where it is possible to define a product by its characteristics, this should be done.

2. SAME—HOW THE CHARACTERISTICS OF A PRODUCT ARE ASCERTAINED.

It is not necessary that the characteristics of the product as defined in a claim be such that the general public by a mere casual inspection can determine the novel features. It is sufficient if this may be done by an expert, or by bending, breaking, chemically testing, or even destroying the particular specimen or article.

3. SAME—PRODUCT NEW.

When the product is novel and involves invention and can not be defined except by the process involved in its creation, there are cases holding such a claim may be allowed, and such a claim has been sustained by the courts. (*Globe Nail Co. v. U. S. Horse Nail Co.*, 19 Fed., 819; *Oval Wood Dish Co. et al. v. Sandy Creek N. Y. Wood Mfg. Co.*, 62 Fed., 285.)

4. SAME—PRODUCT OLD.

Where the product is old, it is not patentable merely because a new process of producing it has been discovered, nor does a claim become patentable merely by including the steps of the new process. (*Cochrane et al. v. Badische Anilin & Soda Fabrik*, 111 U. S., 293.)

5. SAME—WHEN CLAIM SHOULD BE ALLOWED.

When a product is better cooked and rended, is more concentrated, more palatable, better flavored, and contains all the essential oils, essences, and aromas extracted in the process of producing the product, and these qualities can not be described in a claim so as to identify the product save by including the steps of the process involved, *Held* such a claim should be allowed.

APPEAL from Examiners in Chief.

HOP LIQUID PRODUCT AND PROCESS OF MAKING SAME.

Application filed November 11, 1920, No. 423,383.

Messrs. Alexander and Dowell for the applicant.

KINNAN, *First Assistant Commissioner:*

This is an appeal from the decision of the Examiners in Chief, rejecting claims 4, 5, and 6, of which claim 4 will serve for illustrative purposes:

4. The herein described hop liquid product obtained by subjecting a mixture of fresh cured hops and liquid in a hermetically sealed container to a temperature sufficient to extract all the essential oils, essences, and aromas from the hops and disseminate same through the liquid.

The references are: Hoehl, 1,381,833, June 14, 1921; Moore, British, 522, March 2, 1853.

A further reference is the patent to Lawrence, No. 156,802, Nov. 10, 1874.

The alleged invention relates to the production of a canned substance containing a mixture of hops and a liquid hermetically sealed in the container. Appellant has been allowed claims for the process by which he produces his product, and is here seeking the allowance of claims for the product defined by the steps of the process by which it is produced.

The rule against allowing claims for a product defined by the steps of the process of producing it is well enough settled, and the objections to the violation of the rule are material and should not be lightly disregarded. Where it is possible to define a product by its characteristics, the practice is clearly settled that this should be done. Where, however, the product is novel and involves invention and can not be defined except by the steps of the process involved in its creation, there are cases holding that such a claim may be allowed, and it has been sustained by a Court.

In *ex parte Painter* (57 O. G., 999; C. D., 1891, 200), the Commissioner stated:

When the case arises that an article of manufacture is a new thing, a useful thing, and embodies invention, and that article can not be properly defined and discriminated from the prior art otherwise than by reference to the process of producing it, a case is presented which constitutes a proper exception to the rule.

In *ex parte Shneckner* (106 O. G., 765; C. D. 1903, 315) the Commissioner stated:

It is the general rule that an article of manufacture should not be defined in the claim by the process of making it.

That objections to such a claim have been raised by courts, in the adjudication of patent cases, is clear enough. In the *Hide-Ite Leather Company et al.* v. *Fibre Products Company et al.*, Circuit Court of Appeals of the First Circuit (226 F. R., 34), the court, referring to such a claim, stated:

It is also a well recognized rule that, although a product has defined characteristics by which it may be identified apart from the process, still, if in a claim for the product, it is not so described, but is set forth in the terms of the process, nothing can be held to infringe the claim which is not made by the process.

This holding is based upon the rule of the Supreme Court of the United States in the case of Cochrane et al. *v.* Badische Anilin & Soda Fabrik, 111 U. S., 293, in which the court said:

Every patent for a product or composition of matter must identify it so that it can be recognized aside from the description of the process for making it, or else nothing can be held to infringe the patent which is not made by that process.

Where the product is new and has been defined in this way, claims of such character have been sustained. as was above noted. In the *Globe Nail Co.* v. *United States Horse Nail Co.* (19 Fed., 819), a claim for a horseshoe nail made by certain steps recited in the claim was sustained.

In the case of *Oval Wood Dish Co. et al.* v. *Sandy Creek, N. Y., Wood Mfg. Co.* (60 Fed., 285), Judge Coxe, in holding the following claim valid—

A plate or dish cut or scooped from a block of wood in concavo-convex form, as an article of manufacture,

stated—

the product patent does not cover every wooden plate or dish. * * * It refers to a dish made by the machine of the second patent, or its equivalent, or by a similar method. * * * A dish having these characteristics and the features covered by the claims is a new article possessing advantages not existing before.

In the cases above noted the article or product was novel. This will be seen from the quotation from each one of these adjudicated cases.

Where the product is old, it is not patentable because a new process of producing it has been discovered, nor does a claim for the product become patentable merely by including the steps of the new process. If such a claim is sustained by the court, it is construed as a claim for a novel process, and should, therefore, be drawn in the form of a process claim. In the case of *Societe Fabriques de Produits Chimiques De Thann et De Mulhouse* v. *George Bueders & Co.* (135 R. R., 102), the court held that a patent distinctly for a product produced by a certain process is void if the product has been previously produced by any other process.

Again, in the above-noted decision, *Cochrane et al.* v. *Badische Anilin & Soda Fabrik*, the court, referring to the article defined by the process of producing it, stated:

It was an old article. While a new process for producing it was patentable, the product itself could not be patented, even though it was a product made artificially for the first time.

The question presented for review is whether the instant case is one to which the rule against claims of this character should be applied, or whether it is one forming a just exception, one where the product is new and involves inventive concept in its production, and yet can not be defined save by stating the steps necessary to produce it. The only change in the character of the product set forth in the claims, aside from the steps of the process, is that all the essential oils, essences, and aromas have been extracted from the hops and disseminated through the liquid. Is this product new?

Appellant urges that it is; that there is a more thorough cooking and rending; a product more concentrated than obtained heretofore, one that is more palatable, and is better flavored by reason of its having embodied in it all the essential oils, essences, and aromas extracted from the hops and made to permeate the liquid. I am not prepared to dispute this contention. The oils of hops are very volatile, and heating in an open vessel, as disclosed by the British patentee, even at a low temperature, would necessarily drive off much of the volatile fumes of the essences and aromas. An attempt to restore this lost portion by adding beer wort or aromatic oil of hops to replace that lost is more uncertain and in my judgment would not produce the same product obtained by heating to the higher temperature in the sealed receptacle, and thereby extracting substantially all the oils, essences, and aromas and preventing their escape and forcing them to be disseminated through the liquid. It would seem there has been produced a novel product.

In defining the characteristics of the product, so that it may be identified, it is not necessary that they be so defined that the general public, by a mere casual inspection, can determine the novel features of the product. It is sufficient that an expert can do this. The article or product may have to be bent, broken, tested chemically, or even destroyed to determine its characteristics, but if these are so set forth that they may be determined in one of these ways it is sufficient.

The applicant has stated he is unable to define his product by any other means than by the steps of the process of producing. The Examiner has suggested no other way, and I am unable to add anything by way of suggestion. It is thought, therefore, that the claims should be allowed in their present form.

The decision of the Examiners-in-Chief is reversed.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Seventh Circuit.

JESSURUN v. PEERLESS LIGHT CO.

Decided February 7, 1922.

[Fed Rep., 113.]

PATENTS — No. 907,770, FOR ELECTRIC-LIGHT SWITCH, HELD NOT TO DISCLOSE INVENTION.

The Fulton patent, No. 907,770, for an electric-light switch to be operated by a pull upon a pendent cord or chain, which differed from a device patented 30 years before only in the shape of the clamp by which it was attached to the key, *Held* void for failure to disclose invention.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Illinois.

Suit for infringement of Letters Patent No. 907,770 by Albert E. Jessurun against the Peerless Light Company. From a decree dismissing the bill, plaintiff appeals. Affirmed.

Mr. William R. Rummler and *Mr. Cyrus W. Rice* for the appellant.

Mr. Russell Wiles for the appellee.

Before ALSCHULER, EVANS, and PAGE, Circuit Judges.

EVANS, *Cir. J.*:

Appellant, as the owner of a patent upon an electric-light switch issued to Walter W. Fulton, sought to restrain appellee from further infringing claims 1 and 3 of the patent. The district court held the claims invalid and dismissed the bill.

To borrow the language of patentee:

The invention relates to such electrical switches as are operated by a pull upon a pendent cord or chain.

Claim 1 reads as follows:

In combination, a spring clip having arms adapted to embrace the flattened T-head of an electrical switch key from end to end, each arm of the clip being apertured to receive one end of the key head, a crank arm carried by the clip, and a pendent cord carried by the crank arm.

Many prior patents were received in evidence, indicating that the art was well filled with very narrow patents. Only one of them need be considered.

Some 30 years before the issuance of the patent in suit, one Lewis obtained a patent upon an improvement:

The object being to provide simple and convenient means for turning the current on and off a lamp provided with the usual flat key or thumbpiece, and primarily designed to be operated by hand, but hung or placed so as to be not readily accessible for such operation. With these ends in view my invention consists in a two-armed operating lever having its central portion or body adapted to fit over or embrace an ordinary flat key or thumbpiece.

The single claim reads:

The combination, with an incandescent electric lamp having a flat key or thumbpiece for turning the current off and on, of a two-armed operating lever having a central body portion provided with an opening adapting it to be slipped over and secured to the thumbpiece or key, and operating chains or cords attached to the outer ends of the arms of the lever and hanging down within easy reach for turning on and off the current, substantially as described.

If we were to restrict the language of the claim ("and secured to the thumbpiece or key") to the single form of structure shown in the drawings; that is, to securement by the elasticity of the central body or portion (a construction which we do not believe we would be justified in adopting), even then the only advance which Fulton made was to provide for the securement of the spring clip to the flat T-head of the electric switch key by bending the clip so as to inclose the end of the key head.

In other words, the patent deals, not with the electric switch as such, but with a very simple device attachable to the switch by a clip. The hanging chains or cords long used in such constructions make operation by people of short stature easy. The asserted novelty in Fulton's combination, that which distinguishes it from Lewis's, is restricted to the means for securing the clip to the key head. As Judge Carpenter appropriately said:

The clip adapts itself to the device to which it is attached, and certainly there is nothing novel in stamping a hole of any shape in the side of the clip to enable it to fit.

Counsel for appellant argues that, if we should characterize as mechanical skill Fulton's contribution to the art, then numerous patents cited by defendant, including the Lewis patent, were improperly issued by the Patent Office, for none represents greater inventive genius than that manifested by Fulton. This hardly answers the court's position. Assuming that the Patent Office erred in granting other patents of narrow and simple construction, it would hardly justify the issuance of still another patent, dealing with the same art, no more entitled to recognition. But counsel, in making these comparisons, loses sight of the fact that each and every one of the prior patents narrowed the field open to Fulton, and were pertinent upon the only inquiry to which the court was addressing itself, viz: Was Fulton's contribution invention?

Counsel for appellant has brought to our attention all of the facts presented in this suit which support his contention that invention rather than mechanical skill was displayed by Fulton. We are, however, unable to escape the conclusion, in view of the state of the art here disclosed, that Fulton's device did not rise to the dignity of invention. In other words, we agree with the district judge in holding both claims invalid for want of invention.

The decree is affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Pa.) The Eckstein patent, No. 881,561, for waxed candy labels, *Held* anticipated. *Reuckheim Bros. & Eckstein* v. *D. L. Clark Co.*, 280 Fed. Rep., 714.

(U. S. C. C. A. N. Y.) The Armstrong patent, No. 1,113,149, for audion radio amplifier with feedback circuit, *Held* valid and infringed. *Armstrong* v. *De Forest Radio Telephone & Telegraph Co.*, 280 Fed. Rep., 584.

(U. S. C. C. A. N. Y.) The Beecroft patent, No. 1,244,944, for cabinet for talking machines, *Held* void for lack of invention. *Beecroft & Blackman* v. *Rooney*, 280 Fed. Rep., 543.

(U. S. D. C. Wis.) The Perkins reissue patent, No. 13,436, claims 28, 30, and 31, for glue from starch base, *Held* limited to product of described process. *Perkins Glue Co.* v. *Gould Mfg. Co.*, 280 Fed. Rep., 728.

PATENT SUITS.

[Notices under section 4921, Revised Statutes as amended February 18, 1922.]

809,987. J. M. Seller, Tie plates, 986,071, D. H. Leutz. Process of rolling tie plates, etc., suit filed July 12, 1922, U. S. D. C., N. D. Ill., Doc. 2847, *Sellers Mfg. Co.* v. *Interstate Iron & Steel Co.*

851,081, G. A. Faber, Self-filling fountain pen; 1,180,424, E. G. Peck, Self-filling fountain pen; 1,319,039, G. B. Bergen, Automatic pencil; 1,359,568, G. B. Bergen, Lead pencil; 1,372,296, C. R. Keeran, Pencil, suit filed July 13, 1922, U. S. D. C., N. D. Ill., Doc. 2860, *C. H. Keeran* v. *Autopoint Pencil Co. et al.*

924,664, 978,889, 1,056,548, 1,057,154, 1,053,396. Karl Imhoff. Sewage-treatment apparatus suit filed July 1, 1922, U. S. D. C., N. D. Ill., Doc. 2820, *T. W. Miller (as Alien Property Custodian)* v. *Pacific Flush Tank Co. et al.*

978,889. (See 924,664.)

986,071. (See 809,987.)

1,053,396. (See 924,664.)

1,056,548. (See 924,664.)

1,057,154. (See 924,664.)

1,180,424. (See 851,081.)

1,189,773, H. T. Anderson, Uncoupling devices for couplers, suit filed July 18, 1922, U. S. D. C., N. D. Ill., Doc. 2862, *H. Vissering & Co.* v. *Union Railway Equipment Co.*

1,218,314, C. P. Read, Machine for placing springs in casings, suit filed July 7, 1922, U. S. D. C., N. D. Ill., Doc. 2824, *C. P. Read* v. *National Spring Products Co. et al.*

1,255,928, 1,280,297, Des. 57,264, 57,861, Reissue 15,358. A. L. Putnam, Vehicle wheels, suit filed July 21, 1922, U. S. D. C., N. D. Ill., Doc. 2879, *Detroit Pressed Steel Co.* v. *Forsyth Bros. Co.*

1,280,297. (See 1,255,928.)

1,296,588, 1,296,589, 1,296,590, 1,296,591, J. H. Bamberg, Metal molds, piston and other castings; 1,296,594, 1,296,595, A. B. Norton, Molds and process of making castings; 1,296,596, 1,296,597, 1,308,103, F. A. Parkhurst, Molds and process of castings, suit filed May 1, 1922, U. S. D. C., S. D. Ohio, Doc. 256, *Aluminum Manufactures, Inc.* v. *The Kant-Score Piston Co.*

1,308,103. (See 1,296,588.)

1,319,039. (See 851,081.)

1,351,326. C. J. W. Clasen, Railway side frames, suit filed February 11, 1922, U. S. D. C., N. D. Ill., Doc. 2846, *The Bettendorf Co.* v. *Scullin Steel Co.*

1,359,568. (See 851,081.)

1,372,296. (See 851,081.)

T. M. 97,664. Alma Motor Truck Co., Motor trucks, suit filed Mar. 21, 1922, U. S. D. C., N. D. Ill. (E. Div.), Doc. 2635, *Republic Motor Truck Co., Inc. et al.* v. *Republic Motor Sales Co. et al.*

Reissue 14,680 (original No. 1,076,418), E. F. Guth, Lighting fixture, suit filed July 2, 1920, U. S. D. C., D. Mass., Doc. 1015 Eq., *Luminous Unit Co.* v. *Wheeler Reflector Co.* Perpetual injunction entered by consent decree Aug. 11, 1922.

Reissue 15,358. (See 1,255,928.)

Des. 57,264. (See 1,255,928.)

Des. 57,861. (See 1,255,928.)

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., Aug. 11, 1922.

S. F. Myers & Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Roland A. Geell, of No. 15 Maiden Lane, New York, N. Y., for registration of a trade-mark and trade-mark registered November 5, 1895, No. 27,193, to S. F. Myers & Co. of 48 and 50 Maiden Lane, New York, N. Y., and a notice of such interference sent by registered mail to said S. F. Myers & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said S. F. Myers & Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

Halla Dagger Medicine Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Charles Cramer, of Gardner, Kans., for registration of a trade-mark and trade-mark registered October 12, 1915, No. 106,153, to Halla Dagger Medicine Company, of Great Falls, Mont., and a notice of such declaration sent by registered mail to Halla Dagger Medicine Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Halla Dagger Medicine Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

Knox Manufacturing Co., their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Dupuis Chemical Co., of Los Angeles, Calif., for registration of a trade-mark and trade-mark registered January 19, 1920, No. 72,330, to Knox Manufacturing Co., of 709 South Los Angeles Street, Los Angeles, Calif., and a notice of such declaration sent by registered mail to Knox Manufacturing Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Knox Manufacturing Co., their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

George W. Caldwell, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Charles F. Hamel, of 1910 Cherry Street, Toledo, Ohio, for registration of a trade-mark and trade-mark registered August 16, 1904, No. 43,203, to George W. Caldwell, 44 North Street, Middletown, N. Y., and a notice of such declaration sent by registered mail to Caldwell at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Caldwell, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 15, 1922.

David F. Halsted, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Cooper, Coate & Casey Dry Goods Co., of Seventh and Los Angeles Streets, Los Angeles, Calif., for registration of a trade-mark and trade-mark registered April 17, 1900, No. 34,451, to David F. Halsted, of 70 and 72 Franklin Street, New York, N. Y., and a notice of such declaration sent by registered mail to David F. Halsted at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Halsted, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 29, 1922.

The Reid-Edelmuth Manufacturing Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Allman Gas Engine and Machine Co., of 481 Canal Street, New York, N. Y., for registration of a trade-mark and trade-mark registered November 16, 1909, to The Reid-Edelmuth Manufacturing Co., of 247 Bush Street, Brooklyn, N. Y., and a notice of such declaration sent by registered mail to The Reid-Edelmuth Manufacturing Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Reid-Edelmuth Manufacturing Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Patents Nos. 1,428,512 to 1,429,214.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 302—No. 2. TUESDAY, SEPTEMBER 12, 1922. Price—$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of September 12, 1922.

Patents	708—No. 1,428,512 to No. 1,429,214,	inclusive.
Designs	33—No. 61,459 to No. 61,491,	inclusive.
Trade-Marks	287—No. 125,588 to No. 125,874,	inclusive.
Labels	20—No. 25,027 to No. 25,082,	inclusive.
Prints	7—No. 6,305 to No. 6,311,	inclusive.
Reissues	7—No. 14,480 to No. 15,486,	inclusive.
T. M. Renewals	7	
Total	1070	

Attorneys.

(ORDER No. 2,778.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 1, 1922.

Pursuant to the provisions of section 487 of the Revised Statutes, Edwin L. Rice, of Washington, D. C., registration No. 11,209, has been disbarred from practice before the United States Patent Office.

WM. A. KINNAN,
Acting Commissioner.

Adverse Decisions in Interference.

PATENT No. 1,270,471.

On July 5, 1922, a decision was rendered that John C. Wahl was not the first inventor of the subject matter covered by claims 8, 10, and 11 of his Patent No. 1,270,471, subject, "Calculating machine," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,393,430.

On August 7, 1922, a decision was rendered that Henry P. Clausen was not the first inventor of the subject matter covered by claims 1 and 3 of his Patent No. 1,393,430, subject, "Telephone system," and no appeal having been taken within the time allowed said decision has become final.

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 29, 1922.

The Reid-Edelmuth Manufacturing Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Allman Gas Engine and Machine Co., of 481 Canal Street, New York, N. Y., for registration of a trade-mark and trade-mark registered November 16, 1909, to The Reid-Edelmuth Manufacturing Co., of 247 Bush Street, Brooklyn, N. Y., and a notice of such declaration sent by registered mail to The Reid-Edelmuth Manufacturing Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Reid-Edelmuth Manufacturing Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Drawings.

RULE 53.

53. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals, (preferably the latter.)

RULE 52—EXTRACT.

(f) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the close and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refers to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appear in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Photostat Copies.

In ordering photostat copies of United States and foreign patents, when only the number of the patent is given the whole patent, comprising specification and drawing, will be furnished, unless the order specifically states that the "specification only" or "drawing only" is required. Care should be taken in making out orders for foreign patents to give the year of the patent, as in old French and British patents the number will vary according to the year.

Condition of Applications Under Examination at Close of Business September 2, 1922.

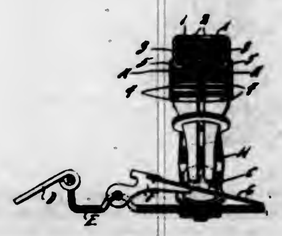
(Total number of applications awaiting action, excluding Trade-Mark division, 69,261; Trade-Mark division, 8,132. Oldest new case, Dec. 9; oldest amended, May 13, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	*Jan. 18	*Feb. 24	974
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	Sept. 6	Aug. 20	1,890
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 9	Aug. 19	1,023
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Oct. 26	*June 26	1,447
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 14	Nov. 2	1,182
218	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 11	*Mar. 27	1,453
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Nov. 22	*Jan. 3	2,277
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*May 24	*July 11	891
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	July 5	*July 10	1,109
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	*Jan. 27	*May 22	1,224
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Mar. 13	*Apr. 4	812
322	12. PIERCE, P. F., Machine Elements	*Feb. 28	*June 2	1,141
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Aug. 5	*June 8	1,554
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 27	*June 19	1,227
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 11	Oct. 14	1,794
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Sept. 1	Sept. 6	2,471
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Sept. 26	*Mar. 27	1,430
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	Aug. 6	July 15	2,461
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	Aug. 19	*Jan. 13	1,235
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Apr. 12	*Apr. 4	1,537
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Oct. 24	*Apr. 24	892
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	*Jan. 4	*Apr. 21	683
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Aug. 4	Nov. 25	772
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 2	*Apr. 12	1,323
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*May 26	*May 22	489
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 10	*Feb. 15	1,101
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Oct. 24	Oct. 1	2,069
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 28	Nov. 4	1,642
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Nov. 26	*June 28	624
182	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Feb. 6	*June 30	1,423
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 29	Nov. 18	1,997
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Nov. 1	*May 3	1,006
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	*Jan. 7	*Mar. 4	905
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Apr. 24	*May 1	552
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Apr. 4	*Apr. 26	1,074
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 28	*Mar. 6	1,798
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Oct. 8	Oct. 20	1,924
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	*Feb. 1	*Feb. 1	1,844
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 15	June 21	2,189
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Sept. 16	Nov. 4	2,594
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Apr. 1	*Apr. 17	859
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Oct. 5	Sept. 1	2,014
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Oct. 28	Oct. 4	1,211
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 12	*Feb. 2	1,447
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Jan. 12	*Mar. 10	1,324
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 26	Dec. 5	1,293
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Nov. 12	*Apr. 1	1,255
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	May 23	May 13	2,572
	49.	June 9	July 19	1,063
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	Sept. 6	*Mar. 20	5,869
	Designs	*Mar. 1	*May 1	2,176
	Labels and Prints	*Aug. 19	*Aug. 23	96

PATENTS

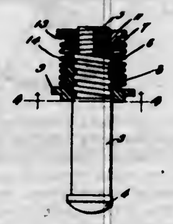
GRANTED SEPTEMBER 12, 1922.

1,428,512. JAW FOR ANIMAL TRAPS. ALBERT M. AHERN, St. Louis, Mo. Filed Dec. 12, 1921. Serial No. 521,630. 8 Claims. (Cl. 43—36.)



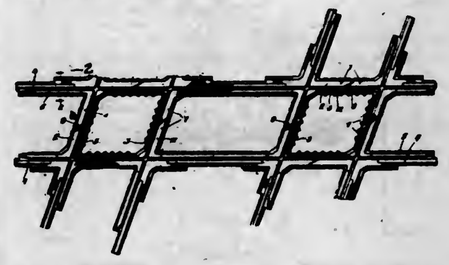
8. In an attachment for an animal trap having a rigid jaw and a trippable jaw-holding member adapted to engage said jaw, said attachment comprising a double jaw provided with a flexible outer jaw member, flexible inner jaw members, separating members extending from said outer jaw member to said inner jaw members, and flexible attaching members extending from said inner jaw members to secure the double jaw to said rigid jaw, said inner jaw members being separated from each other at a point substantially midway between the ends of the double jaw to provide a space for the trippable jaw-holding member, and said separating members being spaced from each other to receive the trippable jaw-holding member.

1,428,513. ATTACHMENT FOR BEARINGS. JOHN A. ANDERSON, Geneseo, Ill. Filed Sept. 22, 1921. Serial No. 502,534. 2 Claims. (Cl. 85—32.)



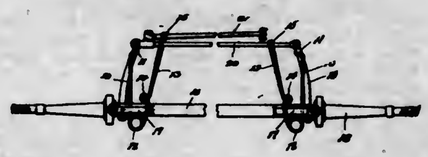
1. In a device of the class described the combination with a bolt having separately threaded portions, the threads on one portion being pitched oppositely to the threads on the other portion, of nuts engaging the respective threaded portions, a coiled spring extending around the nuts and connected at one end to one of the nuts, and means for adjustably connecting the other end of the spring to the other nut.

1,428,514. RAILROAD CROSSING. VICTOR ANGERER, Ridley Park, Pa., assignor to William Wharton, jr., & Company, Incorporated, Easton, Pa., a Corporation of Pennsylvania. Filed Jan. 24, 1922. Serial No. 531,408. 10 Claims. (Cl. 246—463.)



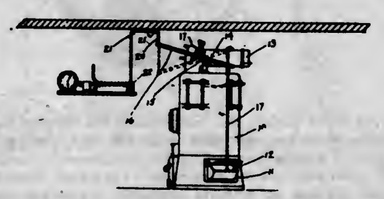
6. A railroad crossing comprising crossing members of greater height than the adjoining rails, and having diagonally disposed abutting faces, means for securing them relatively, and guard rails having integral foot extensions which underlie and raise the running rails.

1,428,515. STEERING-GEAR STABILIZER. GEORGE Y. BEAL, Choctaw, Okla. Filed July 6, 1921. Serial No. 482,824. 3 Claims. (Cl. 280—94.)



1. A steering gear stabilizer comprising a substantially V-shaped spring formed from a single length of material bent to define diverging spring arms connected by intermediate coils and each having spaced sides diverging to said coils, one of the arms being formed to extend through the knuckle yoke of an axle engaging a steering arm near its free end and the other of the arms of the spring being formed to straddle the axle engaging a reach rod connected to said steering arm.

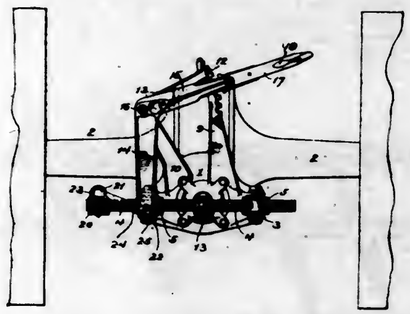
1,428,516. FURNACE CONTROL MECHANISM. CHRISTOPHER R. ABBOTT, Anderson, Ind. Filed Aug. 1, 1921. Serial No. 488,907. 5 Claims. (Cl. 161—8.)



1. In a clock controlling device, the combination of a clock, yieldingly mounted releasable means, latching

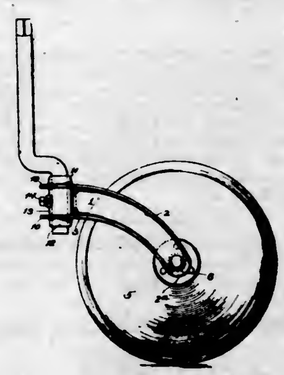
mechanism therefor and releasable by said clock, a weight for maintaining said latching mechanism in the latching position, and means for adjusting the latching position of said latching mechanism.

1,428,517. HITCH DEVICE. RUDOLPH J. ALTGELT, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed May 9, 1921. Serial No. 468,136. 3 Claims. (Cl. 280—33.12.)



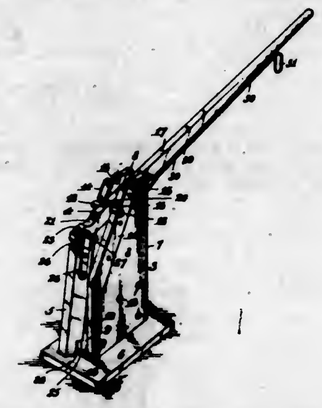
1. In a hitch device, the combination with a bracket, of a longitudinally movable hitch bar mounted therein, an operating lever pivotally supported on the bracket, an elongated bearing sleeve rigid with said hitch bar and disposed approximately at right angles to the axis thereof, and a connecting link having a crank pin at one end loosely connected with said lever and having a crank arm at its other end mounted in said elongated bearing sleeve.

1,428,518. YOKE CONSTRUCTION FOR ROLLING COLTERS AND THE LIKE. RUDOLPH J. ALTGELT, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Feb. 13, 1922. Serial No. 536,208. 2 Claims. (Cl. 97—43.)



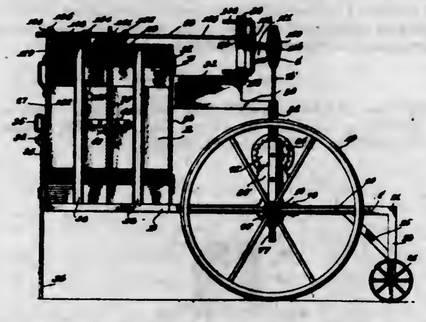
1. A sheet metal yoke, comprising two arms, integrally connected at one end, said yoke provided with parallel flanges projecting forwardly from the connected portion of said arms and forming therewith a yoke head, one of said flanges having an integral upwardly projecting bearing sleeve and the other flange having an integral downwardly projecting bearing sleeve.

1,428,519. VEHICLE JACK. JOSIAH S. ANDREWS, Buffalo, N. Y. Filed Mar. 10, 1920. Serial No. 364,642. 4 Claims. (Cl. 254—129.)



1. A vehicle jack comprising a support having spaced uprights and abutments, notches in said uprights arranged in pairs, an actuating lever having fulcrum pivots removably entered in a pair of said notches and extending forwardly and rearwardly from said pivots, and a retaining lever having a forked upper end straddling said actuating lever and being pivotally connected thereto, said retaining lever having a shouldered lower end adapted to engage one of the steps or abutments of said upright.

1,428,520. PROFILOGRAPH. THOMAS K. ABTEME, New York, N. Y., assignor of one-half to John P. Drakas, Locust Valley, Long Island, N. Y. Filed Apr. 8, 1921. Serial No. 459,787. 12 Claims. (Cl. 234—8.)



1. A profilograph comprising a main frame, profile paper carried by the main frame, a stationary marking instrument carried by the main frame, a supplemental frame hingedly carried by the main frame, a ground engaging wheel carried by the supplemental frame, and means operatively connected to the swinging supplemental frame for feeding the paper past the marking instrument and for raising and lowering the paper in relation to the marking instrument.

1,428,521. PROCESS OF RECOVERING IRON OXIDE AND OTHER PRODUCTS FROM SPENT IRON SLUDGE. CHARLES V. BACON, Mahwah, N. J. Filed Jan. 2, 1920. Serial No. 348,775. 7 Claims. (Cl. 134—59.)

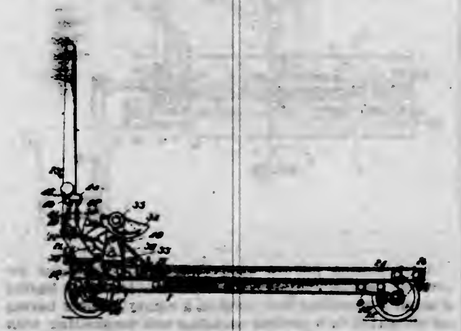
7. The process which consists in subjecting iron sludge comprising essentially iron oxide to the action of concentrated sulfuric acid sufficient to convert the same into a substantially dry mixture consisting essentially of ferrous and ferric sulphates, heating the resultant sulfate compounds to a sufficiently elevated temperature and for a sufficient time to decompose the same into volatile oxy-sulfur compounds and iron and separately recovering such iron oxide.

1,428,522. LIFTING TRUCK. ARTHUR M. BARRETT, Winnetka, Ill. Filed May 3, 1920. Serial No. 378,514. 26 Claims. (Cl. 254—10.)



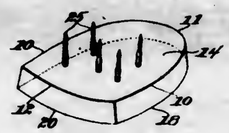
1. A lifting truck comprising a main frame having supporting wheels and a steering member, a lifting frame mounted on said main frame, a steering handle adapted to be operated to raise the lifting frame, means for securing the handle in a substantially upright position, mechanism adapted to be operated to move said handle to disengage it from said securing means.

1,428,523. LIFTING TRUCK. ARTHUR M. BARRETT, Winnetka, WILLIAM CHILDRESS, Oak Park, and FRANK TROTT, Harvey, Ill., assignors to said Barrett. Filed June 13, 1918. Serial No. 239,739. Renewed Feb. 15, 1922. Serial No. 536,838. 19 Claims. (Cl. 254—10.)



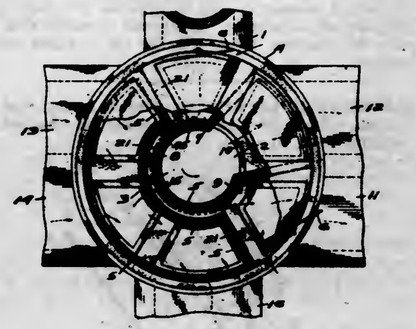
8. A lifting truck comprising a main frame having supporting and steering wheels, a lifting frame mounted on said main frame and movable longitudinally and vertically relatively thereto, a steering handle connected with the steering wheel, a rocking member mounted on said main frame, means operatively connecting said rocking member with said lifting frame whereby said lifting frame may be raised and moved longitudinally by rocking said member, and means detachably connected with said steering handle and adapted to swing laterally therewith when the same is operated to steer the truck, for actuating said rocking member.

1,428,524. RUBBER HEEL. HERMAN L. BEAL, Brookline, Mass. Filed June 17, 1918. Serial No. 240,375. 5 Claims. (Cl. 36—35.)



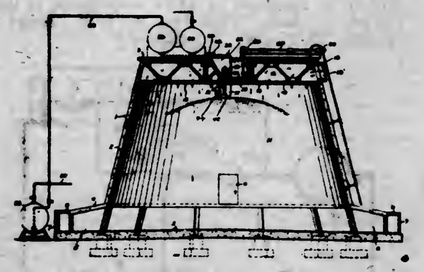
3. A rubber heel comprising a body portion having a concave attaching face, nail-holding means embedded in the heel, and a plurality of divergent attaching nails fixed in the nail-holding means and protruding from the attaching face.

1,428,525. GAS AND AIR REVERSING VALVE. WILLIAM G. BERGMAN, Toledo, Ohio. Filed Aug. 2, 1920. Serial No. 400,886. 23 Claims. (Cl. 137—148.)



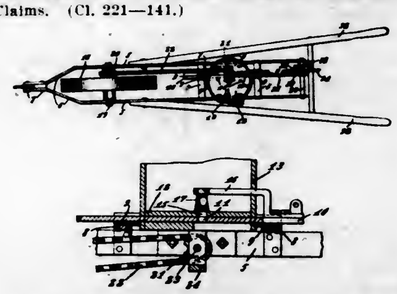
3. In an air and gas reversing valve, a valve member having a gas chamber and a waste gas chamber, and an air passageway located between the gas and waste gas chambers for directing air between the chambers.

1,428,526. PROCESS AND APPARATUS FOR TREATING LATEX. CHARLES E. BRADLEY, Montclair, N. J., and JOSEPH G. COFFIN, Hempstead, N. Y., assignors to General Rubber Company, a Corporation of New Jersey. Filed Dec. 7, 1921. Serial No. 520,505. 32 Claims. (Cl. 18—.)



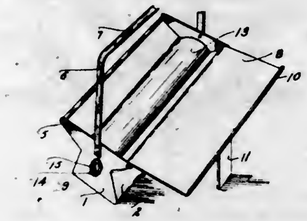
1. In a process for treating latex or similar material, feeding latex onto a moving surface, discharging the latex from the surface as a series of particles, and withdrawing moisture from the particles.

1,428,527. PLANTER. LEWIS R. BRANTLEY, Marietta, Ga. Filed Dec. 22, 1921. Serial No. 524,212. 2 Claims. (Cl. 221—141.)



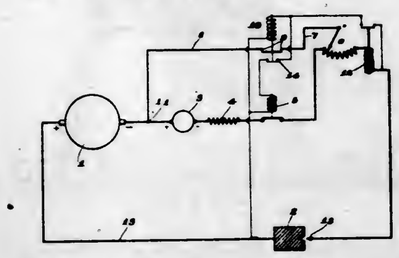
1. A planter comprising a frame, a hopper carried by the frame and having a rotatable bottom member formed with openings, a slidable plate adapted to be adjusted with respect to the bottom member, said plate having an opening, said plate adapted to be moved to bring the opening thereof to a position under a predetermined opening of the rotatable bottom member, means for rotating the bottom member, means for securing the plate in its positions of adjustment, and means movable with the plate for guarding the opening in the rotatable bottom member.

1,428,528. SCRUBBING PAIL. GEORGE BRYAN, Spokane, Wash. Filed Mar. 5, 1921. Serial No. 449,844. 2 Claims. (Cl. 91—66.)



1. The combination with a rectangular container having vertical end walls and converging side walls forming a longitudinally extending throat, of a drum rotatable in the container and having a part of its upper portion projecting through said throat, said container having upwardly diverging side wings, for the purpose described.

1,428,529. ELECTRIC WELDING. FRANCIS S. CALDWELL, Columbus, Ohio, and ALAN M. BENNETT, Westfield, N. J., assignors, by mesne assignments, to Burke Electric Company. Filed Jan. 10, 1917. Serial No. 141,507. 15 Claims. (Cl. 219—8.)



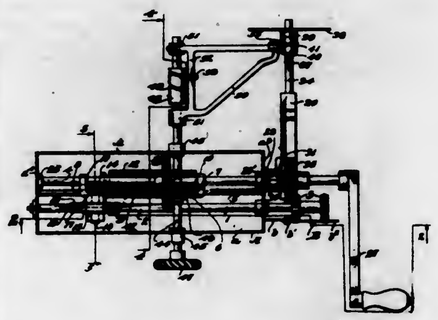
1. In an arc system for welding, repairing and otherwise treating metals, the combination with a main generator, of an auxiliary generator, arc electrodes, conductors connecting said electrodes in circuit with said generators and means for rendering said auxiliary generator inactive.

1,428,530. SPRAYER NOZZLE. GABRIEL J. CASSIDY, Hastings, Minn. Filed June 8, 1920. Serial No. 387,293. 2 Claims. (Cl. 251—135.)



2. A nozzle comprising a body having a bore, there being an elongated slot in the body communicating with the bore; a valve mounted to reciprocate in the bore; a closure on the outer surface of the body and extending across the slot; a bowed spring strip superposed on the closure; a connecting element located in the slot and engaging the valve, the connecting element passing through the closure and engaging the spring strip to put the same under tension; and a securing element connecting the closure and the spring strip with the body, the closure and the strip being slotted to receive the securing element and to permit a reciprocation of the strip and the closure.

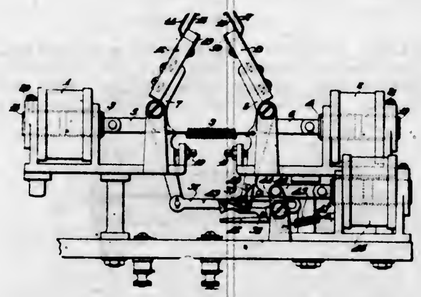
1,428,531. MOTION-PICTURE APPARATUS. JAMES CHAMBLESS, Jasper, Ala., assignor of one half to H. W. Cranford, Jasper, Ala. Filed June 16, 1921. Serial No. 478,081. 14 Claims. (Cl. 88—17.)



1. In motion picture apparatus of the character described, the combination with a film moving shaft having a spirally extending cam portion, a rotary member having an elongated cam portion engaging and cooperating with the spiral cam of the shaft for intermittently rotating the latter, and means for sliding the elements relative to each other to frame the picture without interruption of the intermittent film movement.

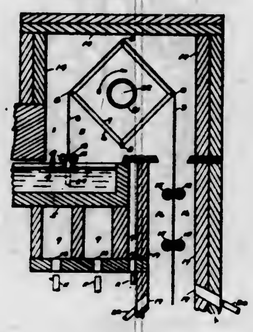
1,428,532. SIGNAL-CONTROLLING APPARATUS. WINTHROP M. CHAPMAN, Needham, Mass. Filed Feb. 13, 1917. Serial No. 148,312. 8 Claims. (Cl. 246—129.)

1. A signal controlling apparatus, having in combination, rail contacts including an insulated section of rail arranged to be closed by the wheels of a car, a signal controlling circuit closed by the closure of said contacts, a magnet in said circuit, a signal circuit closing member actuated by said magnet, and means for



maintaining said member in circuit closing position during an interruption of said signal controlling circuit.

1,428,533. APPARATUS FOR AND METHOD OF DRAWING SHEET GLASS. JOSEPH P. CROWLEY, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed May 16, 1919. Serial No. 297,667. 7 Claims. (Cl. 49—17.)
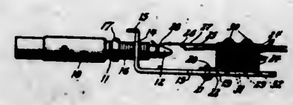


2. In an apparatus for continuously drawing sheet glass, a rotary device for flattening the sheet and changing its direction of travel, the sheet carrying surface of said device comprising a series of plane surfaces symmetrically arranged about the axis of the device, and sharp wear-resisting members at the edges formed by the intersecting plane surfaces, said edges engaging and holding the sheet, and the sheet being flattened upon the intermediate plane surfaces.

1,428,534. STEEL AND IRON ALLOY. PHILIPPE DE CLAMECY, Boston, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts. Filed Oct. 6, 1919. Serial No. 328,685. 2 Claims. (Cl. 75—1.)

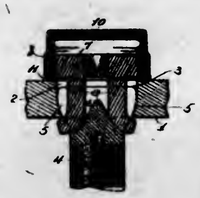
1. An alloy of iron or steel, containing over 1½% and less than 6% of cobalt, over ½% and less than 6% of chromium, over ½% and less than 7½% of nickel, and over ½% and less than 3% of silicon.

1,428,535. ADJUSTABLE JACK. OLIVER C. DENNIS, Wilmette, Ill. Filed Apr. 17, 1922. Serial No. 553,695. 6 Claims. (Cl. 179—96.)



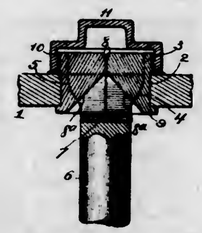
1. A jack of the character described having a base portion and a contact finger adjustable relative to said base portion.

1,428,536. STAY-BOLT STRUCTURE FOR BOILERS. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Oct. 3, 1921. Serial No. 504,888. 5 Claims. (Cl. 85—1.5.)



1. In a staybolt structure, the combination with a boiler sheet having a bolt opening, of a clincher member having a part passing through the boiler sheet adjacent to said bolt opening and engaging the inner portion of the boiler sheet, said clincher member provided with means forming a closure over the bolt head.

1,428,537. STAY-BOLT STRUCTURE FOR BOILERS. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Nov. 2, 1921. Serial No. 512,294. 2 Claims. (Cl. 85—1.5.)

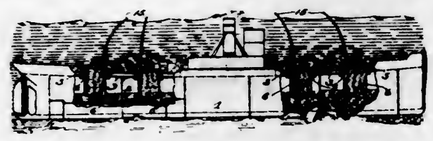


1. In a staybolt structure, the combination with a boiler sheet having an opening, of a two part bearing member passing through said opening and adapted to engage the inner face of the boiler sheet, the outer ends of the parts of said bearing member projecting beyond the outer face of the boiler sheet and threaded externally, a cap or closure threaded on said bearing member and cooperable with the boiler sheet, and stay bolt having a head mounted within the parts of said two-part bearing member.

1,428,538. METHOD OF AND APPARATUS FOR RAISING SUBMERGED VESSELS. FREDERICK W. ESELING, New York, N. Y., assignor to Submarine Devices Corporation, a Corporation of Delaware. Filed Nov. 12, 1920. Serial No. 423,576. 10 Claims. (Cl. 114—50.)

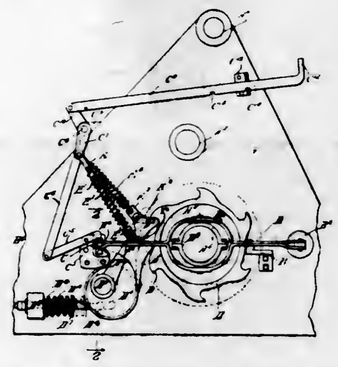
1. The method of raising submerged vessels, which consists in forcing air under pressure into a hold to expel the water, maintaining permanently within the hold a column of water to trap the introduced air in sufficient

volume to give the necessary buoyancy to the vessel to cause it to rise, and allowing the trapped air to escape



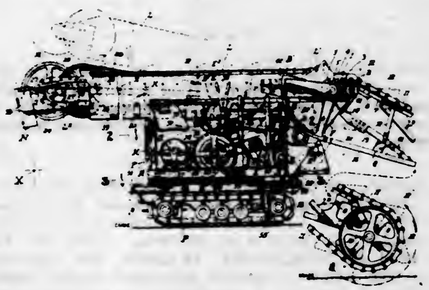
through said column of water in accordance with the reduction in hydrostatic pressure resulting from the rise of the vessel.

1,428,539. JIB HOIST AND AUTOMATIC INTERLOCKING DEVICE FOR LOCOMOTIVE CRANES AND THE LIKE. WALTER FERRIS, South Milwaukee, Wis., assignor to Bucyrus Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 1, 1917. Serial No. 151,859. 9 Claims. (Cl. 192—12.)



6. In a detent motion a ratchet wheel, a pawl permissibly engaging said ratchet wheel by gravity or otherwise, a yielding operating member which may be set to cause withdrawal of the pawl when the load is relieved therefrom, and non-yielding interlocking means which functions to prevent the movement of the yielding member during period of interlock.

1,428,540. EXCAVATOR AND LOADER. WALTER FERRIS, South Milwaukee, Wis., assignor to Bucyrus Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed July 15, 1918. Serial No. 244,834. 25 Claims. (Cl. 37—24.)



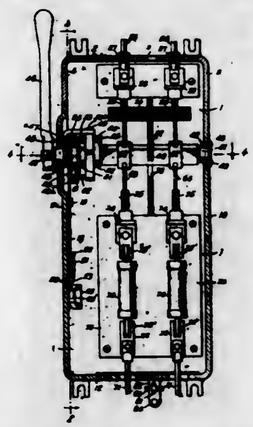
1. An excavator comprising a supporting truck and means for propelling and controlling it, a platform mounted thereon and means for rotating it about an axis removed from the truck, a two-part excavating and spoil conveying ladder mounted on the platform the axis about which the platform rotates being substantially coincident with the discharge end of the ladder.

1,428,541. STAY-BOLT STRUCTURE FOR BOILERS. JOHN ROGERS FLANNERY, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Feb. 23, 1921. Serial No. 447,067. 6 Claims. (Cl. 85—1.5.)



1. A staybolt having a tell-tale hole provided with a porous closure.

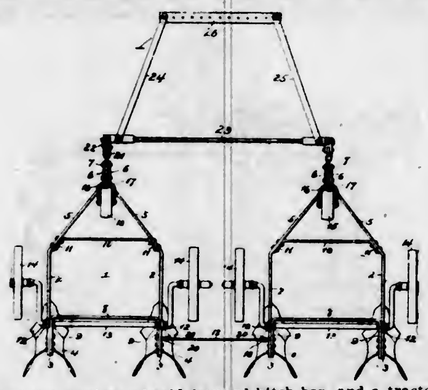
1,428,542. SNAP-SWITCH MECHANISM. ARTHUR L. FREEBT, Ensley, Ala. Original application filed May 22, 1918, Serial No. 235,924. Divided and this application filed Apr. 9, 1921. Serial No. 460,053. 6 Claims. (Cl. 200—70.)



1. In an electric switch a quick throw snap mechanism comprising an operating shaft having switch blades secured thereto, a pair of oppositely wound volute springs secured to said shaft for moving said blades alternately in opposite directions, a ratchet secured to said shaft, trip pawls to alternately prevent the movement of said operating shaft arranged for engagement with said ratchet, a control lever provided with means for engaging said springs to store torque therein upon the movement thereof and means carried by said control lever for disengaging the said trip pawl acting to prevent the rotation of said ratchet.

1,428,543. LISTER PLOW. ARTHUR D. GALLAGHER, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Nov. 29, 1919. Serial No. 341,349. 1 Claim. (Cl. 97—36.)

A four-row lister plow comprising two double-row wheeled lister plows, a rod loosely connected at its respective ends with rear portions of the respective lister plows, to maintain them in spaced relation, clevises pivotally connected with the respective lister plows, a forward hitch bar, links connecting respective end portions of said forward hitch bar with the clevises of the respective lister plows, draw bars pivotally connected with respec-



tive end portions of said forward hitch bar, and a tractor clevis with which the forward end portions of said bars are connected.

1,428,544. REMOVABLE CAP FOR TYPEWRITER KEYS. ROBERT S. GRAHAM, New York, N. Y., assignor of one-half to Willis M. Follmer, New York, N. Y. Filed Feb. 4, 1922. Serial No. 534,013. 3 Claims. (Cl. 197—102.)

1. A cap for a typewriter key arranged to be removably secured thereto, the top of said cap being provided with side and end cushion members, said side members being broader than said end members, and an opening in the top of said cap surrounded by said cushion members.

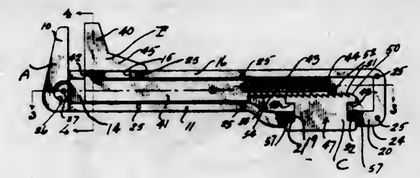
1,428,545. LOCK NUT. MORRIS JACOBS, deceased, late of Brooklyn, N. Y., by Saly Jacobs, administratrix, Brooklyn, N. Y. Filed July 12, 1921. Serial No. 484,258. 10 Claims. (Cl. 151—25.)



1. The method of assembling a nut and a locking wire therefor, which consists in shaping the locking wire into a shaft portion and another portion disposed at less than a right angle to one another, pressing the wire into its seat until the second portion is substantially parallel to the face of the nut, thus bringing the locking wire under initial transverse tension, and then securing the locking wire in place in the nut by bending its end to form a locking lever.

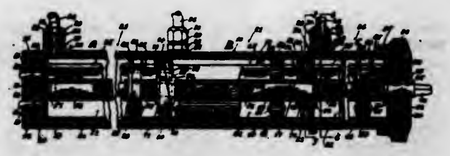
1,428,546. AUTOMATIC WRENCH. HJALMAR JOHNSTON, Duluth, Minn. Filed Sept. 22, 1921. Serial No. 502,420. 6 Claims. (Cl. 81—142.)

1. A wrench, comprising in combination a fixed jaw having a casing rigid therewith, a sliding jaw including a shank rigid therewith, said shank being entirely positioned in said casing for concealed sliding therein, means engag-



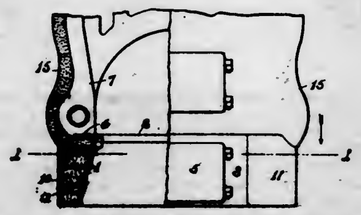
ing said casing and shank for forcing said sliding jaw toward said fixed jaw, and means for locking said sliding jaw in predetermined relation to the casing.

1,428,547. FORCE-FEED OIL AND GREASE DISTRIBUTOR. WILLIAM LEE KLASERNER, Ludlow, Ky. Filed Mar. 28, 1921. Serial No. 456,317. 12 Claims. (Cl. 184—27.)



3. In a force feed lubricant distributor, a casing, a removable lubricant container received within said casing, a plurality of self-contained lubricant chambers in said container adapted to contain grease, parts to be lubricated, tubular connections between said parts and said lubricant chambers, and means to combinedly force grease from said chambers to said parts to be lubricated through said tubular connections.

1,428,548. FURNACE-BASE INSULATION. CHARLES R. KLINE, Reading, Pa. Filed Mar. 27, 1920. Serial No. 369,182. 2 Claims. (Cl. 110—1.)

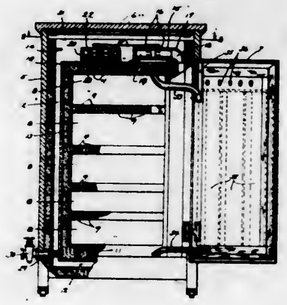


1. In a device of the character described, a furnace base section composed of inner and outer upright walls, said inner wall forming an ash pit chamber and having an upper outwardly deflected flange adapted to form a seat for the furnace sections, said outer wall terminating below said flange, thereby forming an open top packing chamber, and front end closures connecting said inner and outer walls.

1,428,549. REFRIGERATOR. FERDINAND KOBER, Milwaukee, Wis. Filed Sept. 2, 1919. Serial No. 321,020. 6 Claims. (Cl. 257—21.)

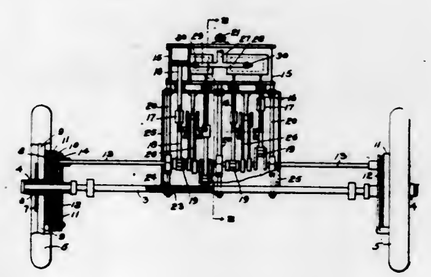
1. A refrigerator of the class described comprising a casing, a compartment within the casing, a water cham-

ber surrounding the compartment, an air space surrounding the water chamber, a sand chamber surrounding the air space and insulating the same from the casing, a blower for circulating air through the air space, and



hydraulic means for operating said blower, said hydraulic means supplying water to the water chamber and to the sand chamber to maintain the sand therein in a moist condition.

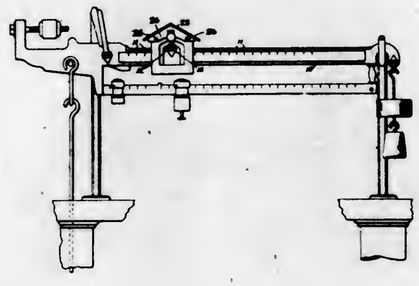
1,428,550. MOTOR VEHICLE. DUNCAN MACDONALD, Pittsburgh, Pa. Filed Apr. 28, 1920. Serial No. 377,183. 5 Claims. (Cl. 180—56.)



1. In a motor vehicle, a load-supporting axle provided with a centrally arranged webbed portion, a pair of driving wheels rotatably mounted on the opposite ends of said axle, a ring gear mounted concentrically on the inner side of each driving wheel, a pair of alined driving axles journaled in parallelism with said load-supporting axle and having their adjacent ends provided with crank portions, pinions mounted on the outer ends of said axles and in mesh with said ring gears, a multiple cylinder reciprocating engine, a series of T rods supportingly connecting the engine to the load-supporting axle and operative connections between the pistons of said engine and said driving axles whereby power is applied to said driving wheels.

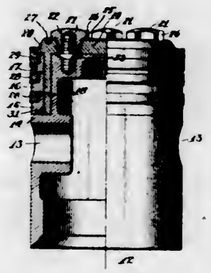
1,428,551. SCALE-BEAM POISE. JOSEPH J. MAGRADY, Chicago, Ill. Filed Dec. 12, 1921. Serial No. 521,808. 5 Claims. (Cl. 265—49.)

1. A poise having a solid body slotted through from side to side for the reception of a scale beam on which the body is slidable, said body having a vertical bore and a forward sight opening, a bushing in the said bore, a latch pin movable in the bushing, a lever having a shiftable pivot at its rear end at the upper portion of the body and having a pivotal connection intermediate its ends with the upper end of said latch pin, said lever having a forward end projecting forwardly beyond the



body and provided with a handle, and a detachable covering for the upper portion of the body in the form of a pitched roof having depending flanges connected to the body.

1,428,552. ENGINE PISTON. EMIL MULLERN, North Arlington, N. J. Filed Apr. 30, 1920. Serial No. 377,738. 4 Claims. (Cl. 74—108.)

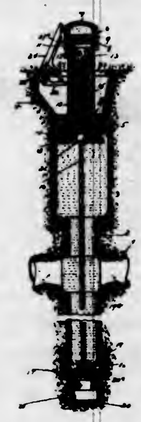


1. An engine piston comprising a body having a cylindrical reduced end; a solid supporting ring removably mounted on said end, said ring being recessed to form a groove for the reception of an expansible packing ring; a packing ring having a beveled extension exposed to the compression chamber of the cylinder with which said piston is associated for being expanded by the pressure formed in said chamber, said ring having a chamfered extension at the opposite edge thereof for wiping the wall of the cylinder with which said piston is associated.

1,428,553. SPRINKLER. BEN OAKES, Detroit, Mich. Filed Feb. 8, 1919. Serial No. 275,686. 8 Claims. (Cl. 299—61.)
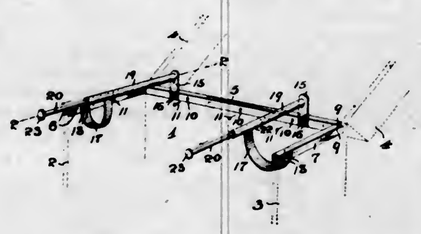
1. A lawn sprinkler, comprising a casing having provision for drainage, a nozzle having a follower normally housed within said casing, means for admitting water under pressure to said casing and thence to said nozzle, the follower having a surface acted upon by the water

pressure to project the same from the water casing, a valve controlling drainage of the casing, and means for



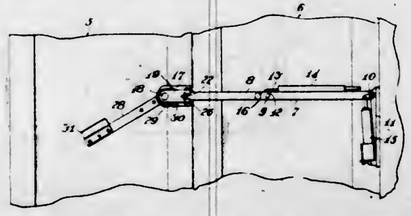
actuating said valve to its closed position by the follower as the latter is projected.

1,428,554. WARDROBE TRUNK AND GARMENT-HANGER BRACKET THEREFOR. SYDNEY OSTERWEIL, Newark, N. J. Filed Apr. 5, 1921. Serial No. 458,776. 2 Claims. (Cl. 211—16.)



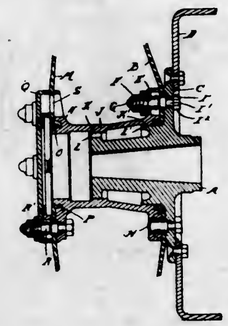
1. A garment hanger-bracket for trunks comprising a channelled supporting element adapted to be mounted in embracing relation about the marginal edge-portions of the open end of the body-section of a trunk; and means extending from said supporting element for the suspension therefrom of garment hangers.

1,428,555. MECHANISM FOR OPERATING SLIDING DOORS. ELLIS J. G. PHILLIPS, Aurora, Ill., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed Sept. 21, 1921. Serial No. 502,124. 8 Claims. (Cl. 268—8.)



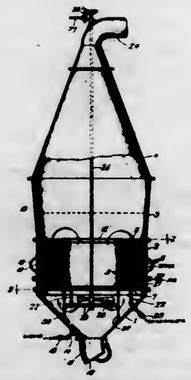
1. Sliding door operating mechanism comprising in combination, an arm adapted to be pivotally connected at one end with a door, and a pair of toggle-levers pivotally connected together at their inner ends, one of which levers is adapted to be pivotally connected at its outer end with a fixed support, the outer end of the other lever being interlocked with and forming a rigid prolongation of said arm.

1,428,556. DUAL VEHICLE WHEEL. ALDEN L. PUTNAM, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 28, 1918. Serial No. 219,563. 3 Claims. (Cl. 301—36.)



1. The combination with a wheel hub having a radially extending flange, of a sleeve member for engaging said hub and forming an extension thereof, radially extending flanges at the inner and outer ends of said sleeve member, a disk wheel member secured between the inner flange of said sleeve and the flange on said hub, a disk wheel member seated on the outer flange of said sleeve, a series of cooperating studs and nuts for clamping the inner flange of said sleeve member to the flange of the hub to secure the inner disk wheel, and a series of cooperating studs and nuts for clamping the outer disk wheel member to the outer flange of said sleeve, said inner and outer series of studs being out of alignment with each other and said outer flange being apertured in alignment with the studs of the inner series for engagement of a tool therewith.

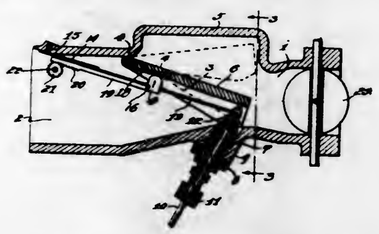
1,428,557. VACUUM APPARATUS. THOMAS RAY and JOSHUA R. RAY, Manistee, Mich., assignors to Ray Bros. Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 3, 1917. Serial No. 205,245. 5 Claims. (Cl. 257—106.)



1. In an apparatus of the kind described, and in combination, a heating drum provided with end plates, each

having a series of openings therein, the peripheral outer edge of each opening being inclined, and tubes connecting said plates terminating within the openings of the plates below the inclined portions thereof, the outer ends of said tubes being bevelled in keeping with the inclined portions of the openings.

1,428,558. CARBURETOR. HAROLD G. RENNER, Detroit, Mich. Filed July 24, 1920. Serial No. 398,619. 8 Claims. (Cl. 261—44.)



1. In a carburetor, the combination with a casing having a mixing passage and an air inlet thereto, of a liquid fuel nozzle opening into said mixing passage, a needle valve controlling said nozzle, a pivotal valve subjected to pressure of the incoming air, a rock-arm carrying said needle valve, a bearing member movably embracing said arm and engaging said pivotal valve and means causing said rock arm to move in unison with said valve, whereby an opening of the air valve effects a predetermined opening of the needle valve.

5. In a carburetor, the combination with a casing having a mixing passage and an air inlet thereto, of a liquid fuel nozzle opening into said mixing passage, a needle valve controlling said nozzle, a pivotal valve subjected to the pressure of the incoming air and having its free end arranged above said needle valve, a rock-arm carrying said needle valve extending beneath said valve and having a greater radius than the air valve, a bearing member interposed between said rock-arm and air valve, and carried by one thereof, and means for adjusting said bearing to or from the pivot of the air valve.

8. In a carburetor, the combination with a casing having a mixing passage and an air inlet thereto, of a liquid fuel nozzle opening into said mixing passage, a needle valve controlling said nozzle, a pivotal valve subjected to pressure of the incoming air, a rock arm carrying said needle valve, means causing said rock-arm to swing in unison with said valve, and means for varying the angular movement of the rock-arm with respect to the movement of said valve.

1,428,559. SUSTAINING ELEMENT OR FEATHER FOR FLYING-MACHINE WINGS. FRANCOIS M. RILLEAU, New York, N. Y. Filed Mar. 2, 1921. Serial No. 449,150. 6 Claims. (Cl. 244—31.)



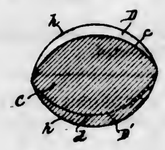
1. A sustaining element or feather for flying machine wings comprising a covered frame-work providing a concavo-convex main body portion terminating in a springy curved and twisted outer tip portion, a longitudinal bracing member secured upon the upper convex side of said main body portion, and means for pivotally mounting said sustaining element or feather upon a support.

1,428,560. STRAP AND BELT TIGHTENING BUCKLE. WALLACE W. ROBINSON, Portland, Me. Filed Mar. 12, 1920. Serial No. 365,223. 9 Claims. (Cl. 24—191.)



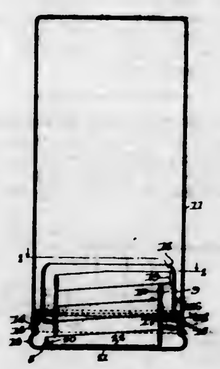
1. A take-up buckle consisting of a base with a strap bearing lever pivotally attached to said base intermediate its ends, said base having a strap receiving opening at one end and means of attaching the strap to the other end and having located between these ends a post which bears upon a portion of the strap when the lever is in the operative position thereby preventing the strap from slipping.

1,428,561. METAL BAR OF CURVED CROSS SECTION. KARL R. SCHUSTER, New York, N. Y. Filed May 2, 1921. Serial No. 466,037. 2 Claims. (Cl. 29—180.)



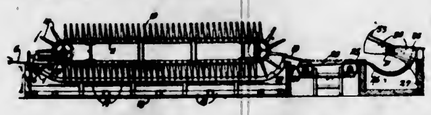
2. A cross sectionally curved bar the surfaces of which are bounded by two reversed curves which cross each other in the plane of the major axis of said bar, and ribs integral with the bar the outer surfaces of said ribs being curved to occupy an eccentric relation to the curved bar surfaces and which outer curved rib surfaces meet the curved surfaces of the bar in planes corresponding to the major axis of the bar.

1,428,562. SHAVING-SOAP CONTAINER. JULIUS SCHWANTES, Milwaukee, Wis., assignor to The Palmolive Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 20, 1919. Serial No. 272,120. 7 Claims. (Cl. 206—56.)



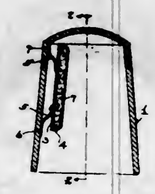
1. A soap container, comprising a base member, means when in normal position for clamping one end portion of a stick of material thereto and manually expansible by a revoluble movement only to release the stick of material, and a casing covering the stick of material and removably connected to the base member.

1,428,563. CLEANING AND PLATING APPARATUS. GEORGE W. SCHWEINSBERG, Brooklyn, N. Y., assignor to U. S. Electro Galvanizing Company, a Corporation of West Virginia. Filed Feb. 18, 1919. Serial No. 277,773. 17 Claims. (Cl. 204—11.)



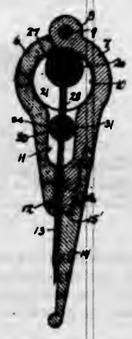
1. In cleaning and plating apparatus the combination with a cleaning tank and a plating tank, of tracks passing therethrough and adapted to conduct electric current from the articles being treated in one of said tanks, means for supplying current to the electrolyte, and means for automatically carrying the articles through said tanks along said tracks.

1,428,564. MANICURE DEVICE. PAUL SERENE, Youngstown, Ohio, assignor of one-third to L. F. Donnell and one-third to B. P. Higby, both of Youngstown, Ohio. Filed Mar. 2, 1922. Serial No. 540,467. 5 Claims. (Cl. 182—74.)



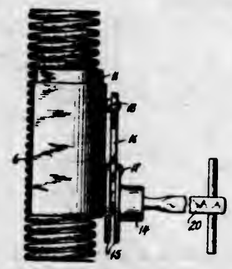
5. In a manicure device, the combination of a thimble, a curved plate, springs attached to said plate and thimble to resiliently space said plate from the interior of said thimble, a buffing pad mounted on said plate, and a curved spring attached to said plate and carrying a nail cleaning and filing member.

1,428,565. POWER-OPERATED RAZOR. PAUL SERENE, Youngstown, Ohio, assignor of one-third to L. F. Donnell and one-third to B. P. Higby, both of Youngstown, Ohio. Filed Mar. 4, 1922. Serial No. 540,954. 7 Claims. (Cl. 30—12.)



1. In a power operated razor, the combination of a handle having a longitudinal aperture, a two part hinged housing connected to said handle, an eccentric driving crank mounted in said housing, a rotatable driving shaft in said handle operatively connected to said crank to rotate the latter, a driving tube mounted on said crank in said housing, a blade hinged to said tube and extending outwardly between said housing members and adapted to be reciprocated at right angles to the blade by reciprocation of said driving tube.

1,428,566. SPRING COMPRESSOR. FREDERIC TIMMERMAN, New York, N. Y. Filed Dec. 3, 1920. Serial No. 427,933. 10 Claims. (Cl. 20—86.3.)



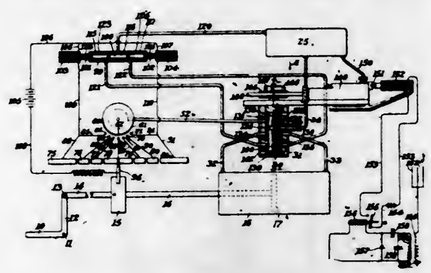
1. A spring handling and compressor tool comprising a pair of spring grip members movable one in relation to the other, a link having one end pivotally attached to one of the aforesaid members, and a rotatable device journalled on the other member and having pivotal connection with the other end of the aforesaid link, the said link being curved so as to swing around the axis of the rotatable device with the middle portion thereof engaging the rotatable device so as to effect a locked position to hold a spring compressed, and handle means related with the rotatable device to operate the tool.

1,428,567. COMBINED TELEPHONE RECEIVER AND TRANSMITTER. JOHN S. TIMMONS, Yonkers, N. Y. Filed July 31, 1919. Serial No. 314,411. 11 Claims. (Cl. 179—103.)



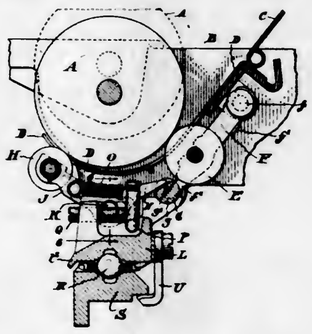
1. A telephone hand set comprising a handle of rigid form having at one end a receiver adapted to be pressed to the ear of the operator and having the other end recessed, combined with a transmitter arranged in the recessed end of the handle and movable therein and also having its operative portion for contact with the operator extending outside of and beyond the bounding walls of the recess, and spring devices for yieldingly holding the transmitter in position to normally assume a normal position but with freedom to oscillate laterally in all directions relatively to the handle when subjected to influencing a pressure, whereby it may shift its position under the pressure exerted by the handle when being adapted to the contacting part of the operator's person.

1,428,568. STEERING MECHANISM. ALBERT D. TRENOR, New York, N. Y., assignor to John Hays Hammond, jr., Gloucester, Mass. Filed Oct. 29, 1915, Serial No. 58,595. Renewed Feb. 8, 1922. Serial No. 535,094. 14 Claims. (Cl. 114—24.)



1. In a control system, a movable body, a rudder for directing said body angularly, means for controlling said rudder, a gyroscope, a pair of electric circuits, electric controlled devices in each circuit, two series of contacts common to said circuits, one series being controlled by the movement of said body and the other series by said gyroscope, means under the control of said devices for actuating said rudder controlling means when one or the other of said devices is energized by the closing of any of said contacts and means for automatically breaking one circuit and energizing the other after said rudder has reached a predetermined position.

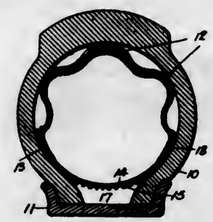
1,428,569. PAPER-FEED PRESSURE DEVICE FOR TYPEWRITING MACHINES. ANTHONY UTZ, Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of California. Filed Dec. 3, 1921. Serial No. 519,642. 10 Claims. (Cl. 197—138.)



1. The combination with a rotary platen of paper feed pressure devices comprising a plurality of front pressure rolls, a supporting arm for each pressure roll, a short rock shaft on which each arm is supported, means for preventing endwise movement of the shafts and the arms, and means for holding the rolls with yielding pressure against the platen.

1,428,570. SELF-SEALING INNER TUBE FOR AUTOMOBILE TIRES. HERBERT N. WAYNE, Washington, D. C. Filed Aug. 21, 1920. Serial No. 405,006. 4 Claims. (Cl. 152—13.)

1. In combination, a tire casing and an inner tube, the tube having non-elastic flexible side strips applied between the tube and the casing around the lower side walls of the tube whereby to restrain and hold the tube



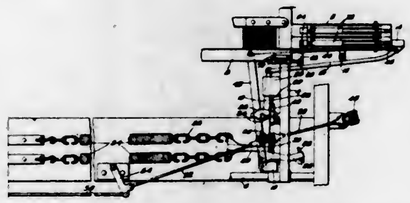
in relatively fixed position at said points of reinforcement and permit expansion above and below the reinforcement.

1,428,571. FIBRILLOUS TIRE. HERBERT N. WAYNE, Washington, D. C. Filed Nov. 24, 1920. Serial No. 426,251. 8 Claims. (Cl. 152—13.)



1. A tire casing having the main portion of the carcass body composed of fibrous material and rubber ground together.

1,428,572. LOOM. EZEKIEL J. WILSON, East Greenbush, N. Y., assignor to F. C. Huyck & Sons, Rensselaer, N. Y., a Corporation of New York. Filed May 23, 1921. Serial No. 471,640. 8 Claims. (Cl. 139—83.)

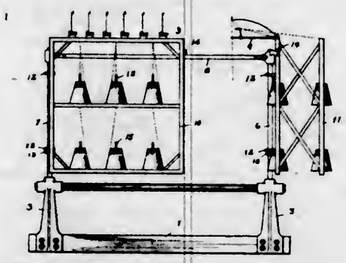


1. A loom having, in combination, a lay, picking mechanism at each end of the lay including a picker stick, electro-magnetic means for controlling the operation of each picking mechanism by a shuttle at the opposite end of the lay.

1,428,573. YARN STAND FOR KNITTING MACHINES. EARL M. WITHERELL, Duluth, Minn., assignor of one-half to F. A. Patrick & Company, Duluth, Minn., a Corporation of Minnesota. Filed Sept. 17, 1921. Serial No. 501,290. 1 Claim. (Cl. 66—12.)

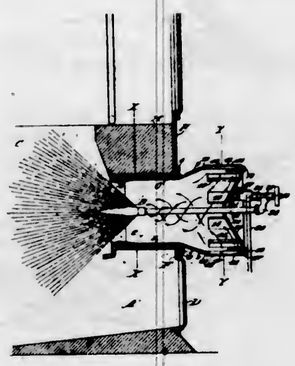
The combination with a flat knitting machine of the character described having an upright frame structure on

the bed thereof, of a yarn stand or rack pivotally mounted at each end of said frame, take up brackets carried by each stand, and bobbin spindles carried by each



stand whereby one of the stands may be replenished or supplied with yarn while the other is in operative engagement with the machine.

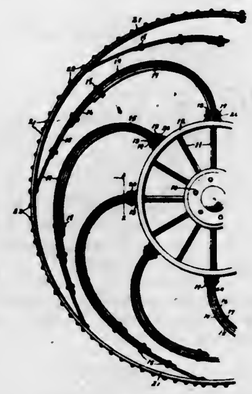
1,428,574. OIL-BURNING APPARATUS. ERNEST L. WOOLLEY, Providence, R. I. Filed Dec. 29, 1919. Serial No. 348,017. 7 Claims. (Cl. 158—1.5.)



1. In an oil-burning apparatus, the combination with a tubular casing adapted to be inserted into the fire-door opening of a furnace and provided with a funnel-shaped extension flaring outwardly a considerable distance beyond the front of the furnace with its maximum diameter at the outer end and having air-ports spaced around the circumference of the casing at its enlarged end, of a damper-ring rotatable on the enlarged annulus of the casing to adapt it to open and close the air-ports, a fuel feed-pipe projecting axially into the casing, an oil-burner on the feed-pipe positioned within the smaller diameter of the casing at a distance inwardly beyond the air-ports, and means for connecting the feed-pipe with the source of fuel supply.

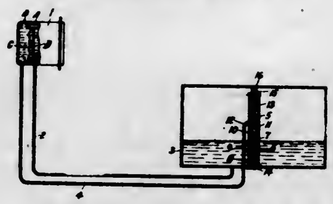
1,428,575. SPRING WHEEL. DAVID YOAKAM, Liberty Township, Warren County, Iowa. Filed Oct. 13, 1919. Serial No. 330,360. 3 Claims. (Cl. 152—29.)

1. A spring wheel, comprising a rigid hub structure, spaced pairs of resilient lugs extending outwardly therefrom, a group of leaf springs clamped between the members of each pair of lugs and extending outwardly on



curved lines, and tread members carried by the outer ends of said springs.

1,428,576. DEPTH OR LIQUID-LEVEL GAUGE. CHARLES ABRAHAMS, Brooklyn, N. Y., assignor to Jacob Abrahams, New York, N. Y. Filed Jan. 21, 1921. Serial No. 439,042. 3 Claims. (Cl. 73—54.)

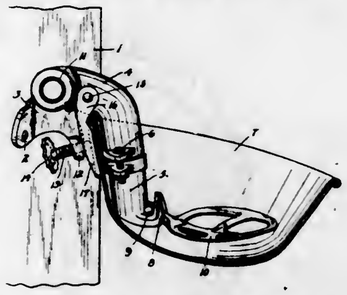


1. In an apparatus for indicating the depth or level of a liquid supply on movable vehicles or vessels, and operated through the difference in the pressures of the liquid in the supply tank and of the liquid column in an auxiliary chamber of constant level, the combination of two chambers and adapted to be filled with liquid, an elastic wall separating the chambers, an indicating mechanism arranged to be operated by the movement of the elastic wall, a supply chamber containing the liquid the level of which is to be indicated, and connected with one of said first named chambers, an auxiliary chamber in which the liquid is to be maintained at a constant level and connected with the other of said first named chambers, a pump barrel having its inlet connected to the liquid supply and its outlet connected to the auxiliary chamber, and a piston freely movable by its own inertia in said barrel.

1,428,577. CLAMPING DEVICE FOR DRINKING BOWLS. ROBERT ACKERMAN, Minneapolis, Minn., assignor to Hudson Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Oct. 7, 1920. Serial No. 415,372. 2 Claims. (Cl. 119—75.)

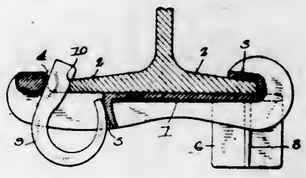
1. A drinking fountain structure comprising, a bowl, a nozzle forming pipe extending into said bowl, a bracket supporting said pipe, a clamping member pivoted to the side of said pipe, said pipe being formed to contact the inner surface of the bowl adjacent the top thereof, and said clamping member being formed to contact the outside

surface of the bowl adjacent the top thereof, said bracket having a downwardly extending lug adjacent said clamp-



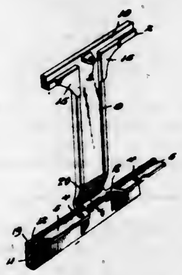
ing member, and a screw passing through said lug and engaging said clamping member to clamp the bowl between the same and said pipe.

1,428,578. RAIL ANCHOR. LAURENCE J. BERKELEY, Milwaukee, Wis. Filed Apr. 3, 1922. Serial No. 549,019. 10 Claims. (Cl. 238—324.)
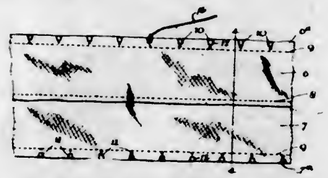


1. A rail anchor comprising a bar adapted to extend across the under side of a rail base and provide at one end with a jaw fitting over one edge of the rail base and at the other end with key bearings, and a spring key adapted to be inserted and forced transversely of the rail into place against said bearings and the other edge of the rail base and acting when in place to grip the rail base between the jaw and key with yielding pressure.

1,428,579. STOVE DOOR. EDWARD E. BLACKBURN, Marion, Ind., assignor to Hoosier Stove Company, Marion, Ind., a Corporation of Indiana. Filed Apr. 30, 1921. Serial No. 465,793. 4 Claims. (Cl. 126—190.)



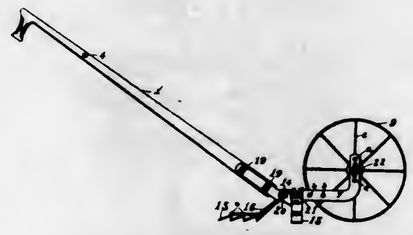
1. An oven having a door frame comprising a bottom member and an upright member, the said members being provided with a bearing, that portion in the upright member opening on the inner side of the frame, a door pivotally mounted in the said bearing and having a stop for cooperating with the inner side of the upright member for holding the door in open position.

1,428,580. TIRE COVER. FRANK T. BOHAN, New Brunswick, N. J. Filed Sept. 16, 1920. Serial No. 410,580. 2 Claims. (Cl. 150—54.)



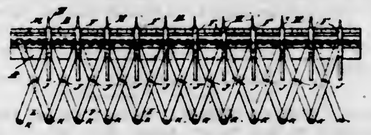
2. A tire cover comprising an endless envelope consisting of two endless annular bands of burlap overlapping each other along one of their marginal edges and secured together by a circumferential line of stitching, the other edges of said annular band being adapted to lie closely adjacent and to define an opening to receive the tire, said last mentioned marginal edges being turned back upon the body of the annular band, a line of stitching for securing each of the turned back edges to the body of its band, and a lacing device for securing the open edges of the band to retain a tire within the envelope and comprising a row of fastening devices along one of said edges, and a row of fastening devices along the other of said edges and alternately arranged with respect to the first mentioned fastening devices, each of said fastening devices having portions arranged between the body of the annular band and the turned back portion and secured thereto, and lacings adapted to be reeved in opposite directions through said fastening devices and to have their free ends secured together.

1,428,581. WHEEL HOE. CHARLES E. CURTISS, Clinton, Wis. Filed Sept. 29, 1920. Serial No. 413,584. 7 Claims. (Cl. 97—42.)



2. In an implement of the character described, having a wheel supported frame, a transverse horizontal blade, widely overhanging and attached to said frame in close proximity to the wheel and a pan, having transverse alternating ridges and depressions upon its lower side, attached to said frame, in operative position, rearwardly of said horizontal blade, substantially as set forth.

1,428,582. QUICK-EQUALIZING MARKER. FRANK W. DEITZ, Cleveland, Ohio. Filed Mar. 24, 1919. Serial No. 284,778. 4 Claims. (Cl. 33—192.)



1. In a multiple ruling device, in combination, a plate or bar having a graduated edge and provided with a

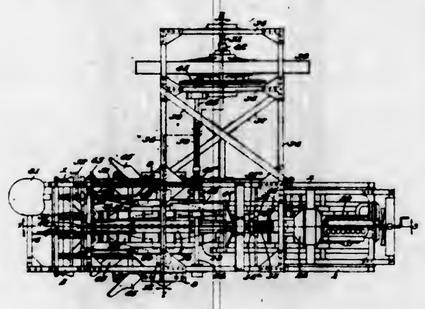
groove parallel to the edge, a multiple number of bases slidably movable in said groove, vertically swinging supports for drawing implements secured to said bases, and a rack composed of pairs of crossed bars, the bars in each pair being pivoted together intermediate of their ends, and the outer ends of adjoining pairs being pivoted together, and the inner ends of adjoining pairs being pivoted together and to said bases.

1,428,583. DUST RECEPTACLE FOR VACUUM CLEANERS. FRANK J. DEUTSCH, Cleveland, Ohio, assignor of one half to Edmond Farkas, Cleveland, Ohio. Filed May 17, 1920. Serial No. 382,107. 11 Claims. (Cl. 183—42.)



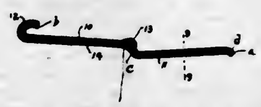
1. In a dust-receptacle for vacuum cleaners, the combination of a fabric bag; a dust-discharge opening formed therein; means controlling the discharge from said opening; means holding said controlling means closed; a detent for said last-mentioned means; and a manually-operated trip for said detent.

1,428,584. TRACTOR. RAPHAEL JOSEPH FOLSE and FREDERICK LAWRENCE HECKER, New Orleans, La. Filed July 25, 1921. Serial No. 487,228. 23 Claims. (Cl. 180—9.2.)



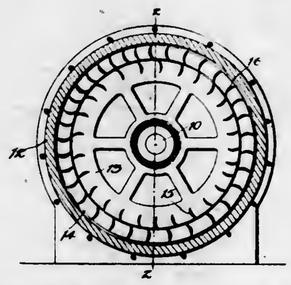
1. In a tractor, the combination of a frame, two parallel endless traction members supported by the frame, a ground wheel at one side of said traction members, a motor, and two independent sets of means actuated by the motor for positively driving both said traction members and the ground wheel, respectively.

1,428,585. HAIR WAVER. GEORGE A. FRANZ, Omaha, Nebr. Filed Feb. 6, 1922. Serial No. 534,426. 4 Claims. (Cl. 132—41.)



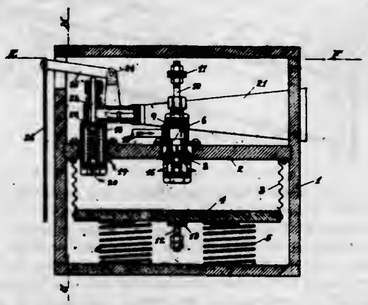
1. In a hair waver, an elongated frame, a resilient tube embracing and normally resisting relative movements of the frames, said second frame having one of its ends mounted on the first named frame to permit a swinging movement relative thereto for engagement of a part of the tube on the second frame with that part of the tube on the hook of said first named frame.

1,428,586. FLEXIBLE POWER TRANSMISSION. BENJAMIN GARRISON, Morgantown, W. Va. Filed Feb. 4, 1919, Serial No. 274,853. Renewed Apr. 30, 1920. Serial No. 378,012. 1 Claim. (Cl. 60—54.)



A flexible fluid transmission comprising the combination of driving and driven shafts, a fluid casing into which the adjacent ends of the shafts extend including side plates having cavities around the hub portions thereof forming an annular fluid channel, a transmission fluid within the channel of said casing, opposing wheels of similar construction secured in laterally spaced relation on the shaft ends within the casing having thickened hubs between the hub portions of the casing side plates, annular series of blades carried by said wheels and each blade extending in an approximately straight line at right angles to its wheel and toward the other wheel, said series of blades being arranged at different distances from the axes of the said shafts and overlapping one another in the space between the wheels.

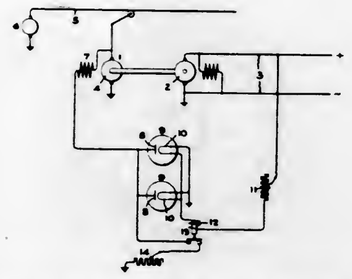
1,428,587. FOGHORN FOR MOTOR CRAFTS. OLE HAKONSEN, Skudenes, Norway. Filed Aug. 27, 1921. Serial No. 495,900. 9 Claims. (Cl. 116—58.)



8. A signaling device comprising a flexible air reservoir, said reservoir being connected to a source of compressed

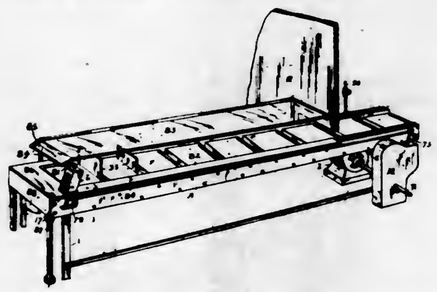
air, a valve for controlling the passage of air from said source to said reservoir, said valve having a valve stem, means normally holding said stem in position to maintain said valve open to permit passage of air to said reservoir, a connection between said reservoir and said stem whereby said reservoir when full actuates said stem against the action of said means to close said valve, a horn connected to said reservoir and adapted to be operated by compressed air, a second valve, normally closed, interposed between said reservoir and said horn, and means for causing said reservoir to collapse to discharge the air contained therein through said horn when said second valve is opened, the collapse of said reservoir permitting said first-named means to open said first valve and permit the supply of air from said source to refill said reservoir.

1,428,588. SPEED-REGULATING ARRANGEMENT. LAURENCE A. HAWKINS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 11, 1920. Serial No. 402,759. 4 Claims. (Cl. 171—312.)



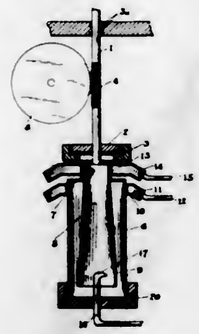
4. A speed regulating arrangement for a direct current motor comprising an electron discharge tube adapted to control the excitation of said motor, means for varying the filament current of said tube in accordance with variations in the speed of said motor, and means in circuit with the filament for automatically changing the motor connections.

1,428,589. AUTOMATIC SALES APPARATUS. EDWARD H. HELT, Bellevue Borough, Pa. Filed Dec. 14, 1920. Serial No. 430,673. 12 Claims. (Cl. 211—8.)



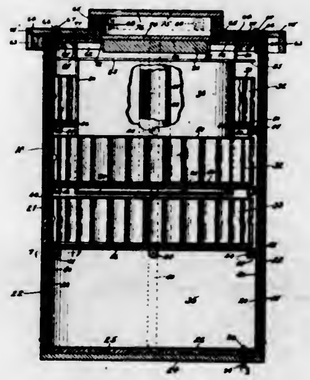
1. In automatic service apparatus, the combination of a plurality of series of dispensing shelves, each series being comprised of shelves arranged to move in unison and to be presented in turn in the dispensing position, and the several series being arranged in parallelism, a common source of power for causing said series of shelves to travel, clutch mechanisms interposed between the series of shelves and said source of power, a separate clutch mechanism being provided for each series of shelves so that any single selected series of shelves may be caused to travel independently of the remaining series, and an individual coin-controlled device for each of said clutch mechanisms whereby upon the insertion of the proper coin or coins into one of said coin-controlled devices the associated clutch mechanism may be thrown into its operative position and the associated series of shelves caused to travel independently of the remaining series.

1,428,590. APPARATUS FOR SEPARATING OILS. ADOLPH W. HILLE, Denver, Colo., assignor to American Shale Reduction Company, a Corporation of Delaware. Filed Nov. 26, 1921. Serial No. 517,959. 5 Claims. (Cl. 233—21.)



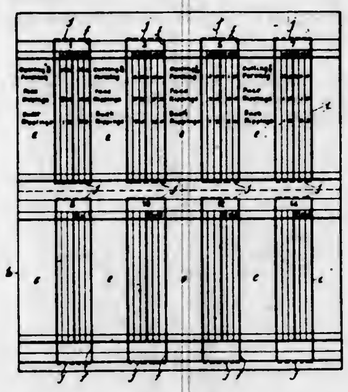
1. A centrifugal separator comprising an outer hollow member and an inner hollow member within and carried by the outer member and of substantially less diameter and open at its lower end, the inner and outer members being each provided with discharge openings near their upper ends, means for rotating the two members together, and means for directing the liquid to be treated against the inner surface of the inner member near its lower end.

1,428,591. REFRIGERATOR. EZEKIEL H. HOLLAND, Byron, Ga. Filed Mar. 18, 1920. Serial No. 366,862. 16 Claims. (Cl. 62—59.)



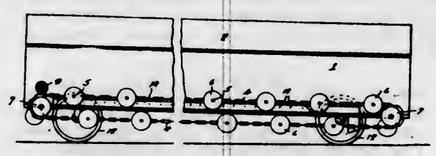
1. In a refrigerator, a receptacle, an article support and an ice tank within the receptacle and located one over the other, a tubular vertical passageway through the ice tank, and an opening through the support in substantial registration with said passageway but terminating at a point spaced from said passageway.

1,428,592. ACCOUNT SHEET. WILLIAM PRICE JENKINS and WILLIAM DOWNING WOOLLEY, Tredegar, England. Filed Oct. 28, 1920. Serial No. 420,208. 4 Claims. (Cl. 282—27.)



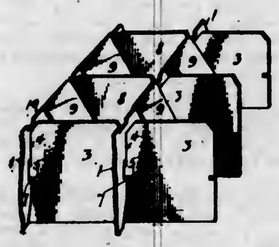
1. A device of the character described, comprising superposed sheets bearing columns for particulars and appended columns for lists of items, said sheets being slit and so disposed relatively to each other as to cover said list columns of an upper sheet and expose said particulars columns of a lower sheet.

1,428,593. PORTABLE DRYING APPARATUS. TOBIAS JOHNSEN, North Bay, Ontario, Canada. Filed Feb. 7, 1920. Serial No. 357,082. 3 Claims. (Cl. 34—12.)



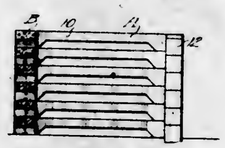
3. A portable drying apparatus of the class described comprising a chamber of elongated form, an endless carrier operable through the chamber including supporting bars and rollers mounted thereupon, air conduits disposed upon the bottom of the chamber beneath the carrier and having a plurality of escape openings, a trough arranged at one side of the chamber to receive the moisture from the walls thereof and to direct the moisture from the apparatus, and means for acting upon the material to loosen same as it is fed into the receiving end of the chamber.

1,428,594. EGG SEPARATOR. BENJAMIN KAINER, New York, N. Y. Filed Dec. 5, 1921. Serial No. 520,031. 2 Claims. (Cl. 217—34.)



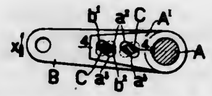
1. A separator for holding eggs in a crate comprising a plurality of longitudinal and cross strips forming compartments between them to receive therein the eggs for shipment, and flaps extending from the top edges of said strips and into said compartments and adapted to press the eggs into contact with the walls of said compartments.

1,428,595. CRIBBING. PAUL KIRCHER, Chicago, Ill., assignor to Massey Concrete Products Corporation, Chicago, Ill., a Corporation of Virginia. Filed Dec. 12, 1921. Serial No. 521,656. 5 Claims. (Cl. 61—47.)



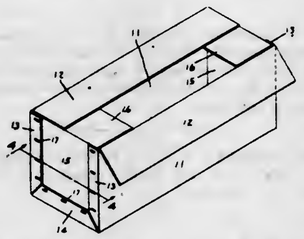
2. A cribbing comprising a plurality of anchor slabs arranged in spaced tiers, a plurality of stretchers extending between the tiers of anchor slabs, the rear ends of the anchor slabs of each tier being concavo-convex in transverse cross section for the purpose set forth.

1,428,596. COUPLING. PAUL KRÜGER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed June 6, 1921. Serial No. 475,287. 2 Claims. (Cl. 74—39.)



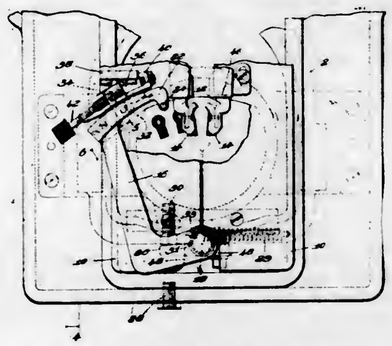
1. In a coupling of the class described a pair of members to be intercoupled, said members being formed with slots so disposed that they cross each other, a coupling bolt passing through said slots, said slots being disposed at such an angle relatively to one another that the sides thereof engage said bolt when force is applied to either member thereby automatically coupling said members together.

1,428,597. SHIPPING BOX FOR CANNED GOODS. ROBERT L. LEMON, Indianapolis, Ind., assignor to Van Camp Packing Company, Indianapolis, Ind., a Corporation. Filed Aug. 19, 1921. Serial No. 493,718. 1 Claim. (Cl. 229—23.)



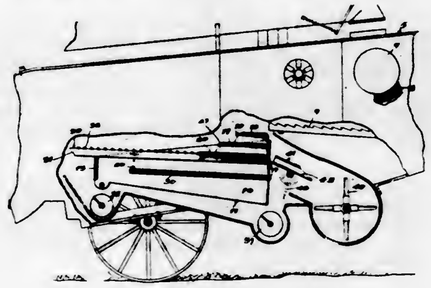
A paper or straw board box comprising a main body blank providing a box bottom, two sides, two top flaps, said top flaps being arranged to fold toward each other over the top of box so that their edges will abut each other, and end securing strips folded over each end of each side and each end of the bottom, a pair of end blanks each providing a top flap so positioned as to fold over the top of the box so as to lie adjacent the under surface of the top flaps, and means for rigidly securing said end flaps to said end securing strips, substantially as described.

1,428,598. WORK-SPACING MECHANISM IN BUTTONHOLE-SEWING MACHINES. BERNARD T. LEVESQUE, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 14, 1919. Serial No. 337,983. 10 Claims. (Cl. 112—65.)



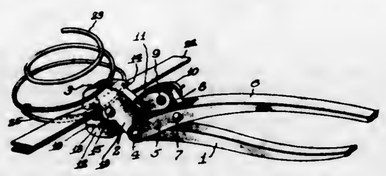
1. A buttonhole sewing machine having in combination a stitch-forming mechanism and a reciprocating work clamp relatively movable to sew about a buttonhole and a work spacer operated by the relative travel of the work clamp and stitch-forming mechanism.

1,428,599. THRASHER. JOE M. LUNZ, Wright, Kans. Filed Oct. 19, 1921. Serial No. 508,775. 7 Claims. (Cl. 130—15.)



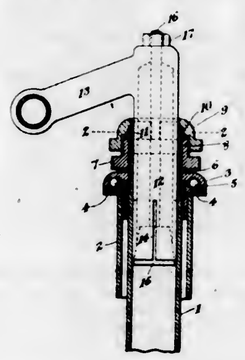
1. In a thrashing machine, the combination with a shoe having inwardly directed terminal portions of a plurality of stub chaffers having lugs adjustably connected to said inwardly directed portions and a tailing chaffer connected to said shoe.

1,428,600. PLIERS. WILLIAM D. MCCULLOUGH, Detroit, Mich. Filed Apr. 26, 1920. Serial No. 376,475. 1 Claim. (Cl. 294—36.)



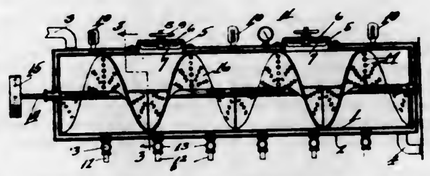
Pliers comprising a handle bar terminating in a jaw, said handle bar having a side wall provided with a recess, a lever pivotally connected to said handle bar jaw and terminating in a jaw, said lever having a recessed wall portion engaging in the recess of said handle bar, a handle bar having an inset link connection with said lever and pivotally connected to both sides of the first mentioned handle bar, and gripping members carried by the confronting faces of the jaws of said lever and said handle bar.

1,428,601. BICYCLE STEERING HEAD. JOHN J. MCGUCKIN, Brooklyn, N. Y. Filed Nov. 5, 1921. Serial No. 513,181. 5 Claims. (Cl. 208—116.)



1. In a bicycle, the combination of a non-contractible tubular fork-head, a handle bar stem telescoped therein, means for locking the lower end of said stem to the fork-head, a contractible element surrounding said stem, and cooperating retracting and contracting means carried by the fork head for clamping the upper end of the fork-head to said stem.

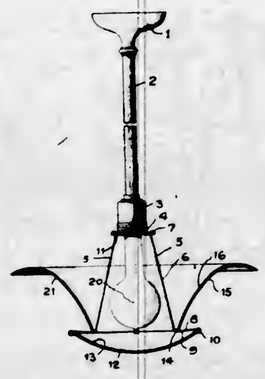
1,428,602. PROCESS FOR TREATING CHEESE. PHILIP MALEKOW, Chicago, Ill., assignor to Baker Food Products Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 19, 1920. Serial No. 374,856. 2 Claims. (Cl. 99—8.)



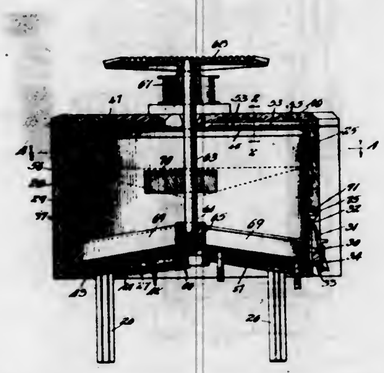
2. The process of sterilizing and canning cheese which includes introducing comminuted cheese into a closed chamber, heating, and simultaneously agitating the cheese in said chamber until completely sterilized, and then discharging the cheese from the chamber into cans.

1,428,603. LIGHTING FIXTURE. FREDERICK W. MATHIEU, New York, N. Y., assignor to Duplexalite Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1918. Serial No. 265,202. 1 Claim. (Cl. 240—78.)

In an electric lighting fixture, the combination of a lamp and socket, a socket cover having an outwardly extending flange, a plurality of supporting rods associated with said socket, such rods having upper ends retained in said flange and flaring portions comprising an outwardly extending transverse portion having hooked extremities, a spherical translucent member retained and supported by said hooked portions and an upwardly flaring member of translucent material open top and bottom surrounding the rods and supported below the lamp filament of said transverse portions.



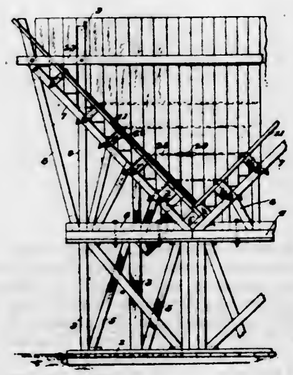
1,428,604. METHOD OF AND APPARATUS FOR MANUFACTURING DEXTRINE. JOSEPH J. MERRILL, Chicago, Ill., assignor to Corn Products Refining Company, a Corporation of New Jersey. Filed Apr. 23, 1917. Serial No. 163,945. 10 Claims. (Cl. 127—10.)



1. In apparatus for manufacturing dextrine, the combination of a circular dextrinising vessel having a door in its side wall, headers in upright arrangement on opposite sides of the door, and steam pipes arranged adjacent the side wall of the vessel surrounding the major part of the same and connected at opposite ends with said headers.

1,428,605. PORTABLE HOPPER. PHILIP NEARY, Walla Walla, Wash. Filed Oct. 1, 1920. Serial No. 414,144. 4 Claims. (Cl. 20—1.2.)

1. A hopper structure, comprising a plurality of sections adapted to be secured together to provide a hopper frame, each section including a base, a supporting strip arranged thereon, side-wall receiving strips secured in spaced parallel relation on the supporting strip, and an upright rising from the supporting strip to hold the upper ends of the side walls.

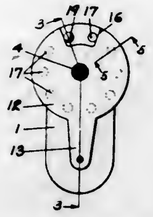


1,428,606. RECIPROCATING ROCK DRILL FOR SUPPLYING WATER TO BORE HOLES DURING DRILLING. WILLIAM EDWIN NETTLE, PAUL SELBY, JAMES BLYTHE, and JOSEPH HENRY HOLMAN, Johannesburg, Transvaal, South Africa. Filed July 21, 1920. Serial No. 398,024. 5 Claims. (Cl. 121—4.)



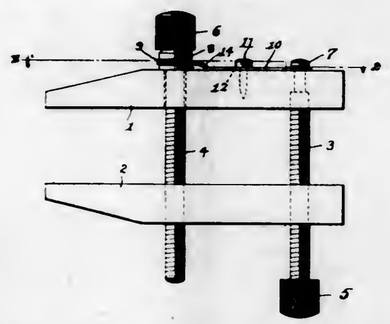
1. In a rock-drill, in combination, a cylinder, a reciprocating piston in said cylinder, a drill steel operably connected to the piston, said piston and steel having a passage through which water passes to the bore hole, the reciprocating parts having a space which is placed in communication with the cylinder at both the front and back of the piston, and a water supply tube which passes through the piston and said space to convey water to the passage through the reciprocated parts.

1,428,607. TRANSFER MECHANISM FOR REGISTERS. HENRY P. NORDMARK, Grand Rapids, Mich., assignor of one-half to F. I. Chichester, Allegan, Mich. Filed Nov. 30, 1920. Serial No. 427,267. 2 Claims. (Cl. 235—143.)



1. In a transfer mechanism, the combination of a series of disk-like number wheels, transfer division plates with a notch corresponding to the point of engagement for transfer, a series of perforations in all of said wheels except the first corresponding to the numerals to be transferred, one of which is slightly larger than the other and contains a ball of a diameter corresponding to the thickness of the said disk number wheels, a perforation in the first wheel of the series at an equal radial distance from the center, corresponding in size to the larger hole containing the ball, a ball in the initial number wheel hole or pocket, a disk spring pressing the said ball towards the higher number wheels adapted to coact and engage the perforations in the next higher number wheel and effect transfer by step-by-step action and to press the ball in the enlarged perforation of the higher number wheel to engage a still higher number wheel and effect transfer, all coacting substantially as described for the purpose specified.

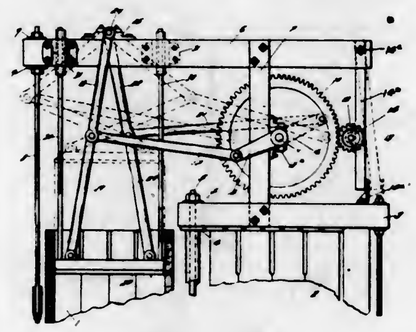
1,428,608. CLAMP. JOHN WM. PARKER, Barrington, R. I., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Filed July 15, 1921. Serial No. 485,051. 4 Claims. (Cl. 144—300.)



1. In combination with a clamp having parallel jaws and screws, a head on one screw having a circular groove, the free end of the other screw having a circular groove, a locking plate interposed between the two screws and having each end formed with a U-shaped slot engaging in the respective grooves, the end of the plate adjacent the head being offset from the adjacent jaw, and a clamping screw for securing the plate to the said jaw, said plate having an elongated slot receiving the clamping screw.

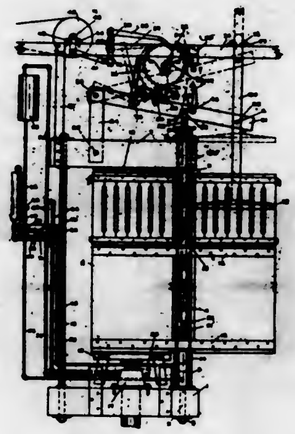
1,428,609. TRAMPER. JAMES M. PEERSON, Florence, Ala. Filed Mar. 1, 1919. Serial No. 280,188. 5 Claims. (Cl. 100—25.)

5. In a tramper mechanism, a press box, a platen movable thereinto, a shaft parallel with the transverse center of the platen, two pairs of toggle links hung from said shaft and connected to opposite ends of the platen, and power driven crank mechanism connected to the toggles



at their knuckle joints and adapted to move the latter in opposite directions to break the joints across a transverse vertical central plane through the press box, substantially as described.

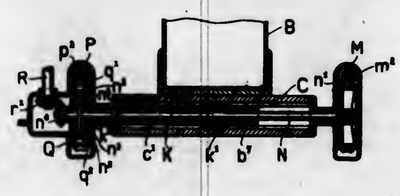
1,428,610. DOUBLE-BOX COTTON PRESS. JAMES M. PEERSON, Huntsville, Ala. Filed Feb. 10, 1921. Serial No. 443,940. 20 Claims. (Cl. 100—28.)



3. In combination, a receptacle for material to be compressed, a platen reciprocable thereinto, an operating mechanism for the platen comprising means to lift and release the platen for a gravity drop, and means to engage and positively drive the platen for the remainder of its stroke downwardly.

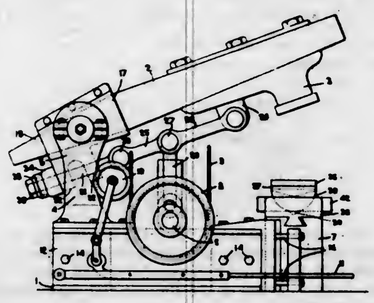
18. The combination with a rotating double press, of top and bottom supports therefor, a hydraulic press column mounted between said supports, a gland in the upper end of the column, a pump plunger reciprocable in the column and adapted to be packed by said gland, a hydraulic ram operable by the hydraulic pressure generated by said pump, an arm pivoted to the upper end of the plunger, a platen operably connected to one end of said arm, a rocking pivotal support for the other end of said arm, and a drive for said arm compressing trip means to lift the arm, and cam means to depress the arm.

1,428,611. GUN WITH LATERALLY-ADJUSTABLE BARREL. RICHARD SCHÜRMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 7, 1920. Serial No. 408,745. 4 Claims. (Cl. 89—41.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



2. In a gun having a gun barrel adjustable in lateral direction and a traversing gear for laterally adjusting the gun barrel, a sighting device arranged to partake on each lateral adjustment of the gun barrel and comprising a sighting means carrier adjustable in lateral direction relatively to the gun barrel and a gear for effecting the lateral adjustment of the sighting means carrier, two driving members for operating said traversing gear independently of each other and means positively connecting said sighting means adjusting gear to one of said driving members, whereby the gun barrel and the sighting means carrier may be rotated through the same angle but in opposite direction when the driving member positively connected to the sighting means adjusting gear is operated and the other driving members is held stationary.

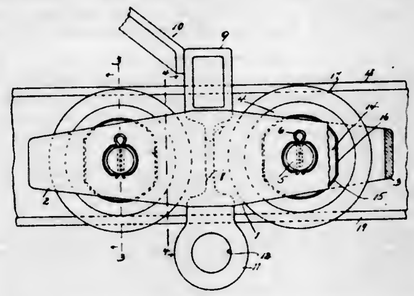
1,428,612. POWER HAMMER. WILLIAM E. SHEEHY, Newfields, N. H., assignor of one-half to Leonard W. Sheehy, Newfields, N. H. Filed Mar. 2, 1921. Serial No. 449,022. 6 Claims. (Cl. 78—32.)



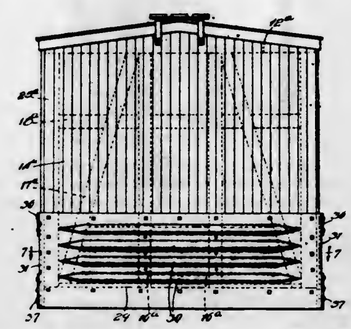
1. In a power helve hammer, the combination with a frame carrying an anvil, of a helve member pivoted to the frame and carrying a hammer, two pivotally connected links, one of which is pivoted to the helve and the other of which has a yielding connection therewith, and a crank shaft connected to said links.

1,428,613. TROLLEY. WILLIAM E. SIMPSON, Detroit, Mich., assignor to Palmer-Bee Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 29, 1920. Serial No. 426,978. 7 Claims. (Cl. 105—155.)

2. In a trolley, a frame having spaced side bars, an integral cross web connecting said side bars and forming a reinforcement therefor, said cross web having an I-shaped cross section, and an abutment extending from and integral with said cross web, said abutment having an I-shaped cross section transverse to said cross web, one end of said abutment being adapted for engagement of a driver.

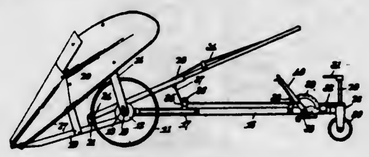


1,428,614. END REENFORCEMENT FOR RAILWAY CARS. VINTON E. SISSON, Chicago, Ill., assignor to Walter P. Murphy, New York, N. Y. Filed May 16, 1919. Serial No. 297,590. 10 Claims. (Cl. 105—410.)



1. The combination with a wooden wall extending from the floor to the roof of a railway car, of a metal reinforcing structure on the outside of the car and formed with a plurality of strengthening and rigidifying corrugations which merge into each other so that said structure has a sinuous configuration in cross section.

1,428,615. SNOWPLOW. WILLIAM C. SPEER, Wright, Kans. Filed May 14, 1920. Serial No. 381,322. 1 Claim. (Cl. 37—7.)



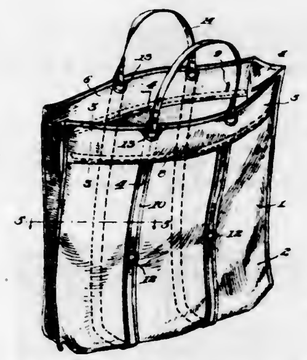
A snow plow including a push pole, a frame pivotally supported on the forward end of the pole for vertical movement, ground wheels on the sides of the frame, a plow rigidly supported on the frame, braces rigidly carried by the pole and movably connected to the frame at

points in line with the pivotal connection of the frame with the pole, a lever rigidly connected with the frame and extending rearwardly over the pole, a lever pivotally supported on the pole, and a flexible element connected to the first and second levers and slidably engaged with the pole.

1,428,616. PROCESS OF RECOVERING VANADIUM. WILLIAM E. STOKES, Rockville Center, N. Y., assignor to United States Processes, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 19, 1921. Serial No. 438,486. 5 Claims. (Cl. 23—13.)

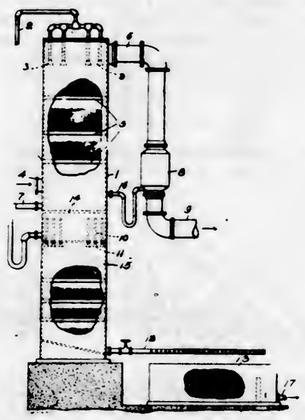
1. A process of recovering vanadium, comprising heating an ore in admixture with an alkali-metal nitrate.

1,428,617. SHOPPING BAG. JACK THAW, Baltimore, Md. Filed Nov. 15, 1921. Serial No. 515,337. 6 Claims. (Cl. 150—1.)



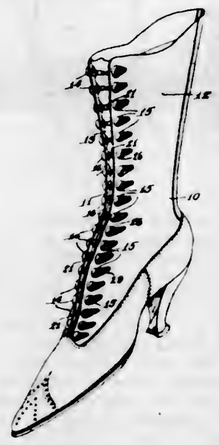
1. A shopping bag including flexible side and bottom walls, straps attached to the side walls of the bag by rows of stitching or the like, the ends of said straps terminating at the mouth of the bag, grommets passing through the respective strap ends and the side walls of the bag, and handles having their ends secured in said grommets.

1,428,618. PURIFICATION OF WASTE LIQUID. FRED W. WAGNER, Pittsburgh, Pa. Filed Aug. 24, 1920. Serial No. 405,667. 12 Claims. (Cl. 210—16.)



1. The process herein described of removing a hydrocarbon compound from aqueous solution, which consists in causing a stream of reducing gas to pass through and out from said solution and as it passes through to mingle intimately with such solution in the presence of a catalyzer.

1,428,619. MEANS FOR CONVERTING LACE SHOES TO BUTTON SHOES. PHILIP A. WEIGEL, Riverton, N. J. Filed Feb. 28, 1922. Serial No. 539,956. 4 Claims. (Cl. 24—203.)



1. A device of the class described, comprising buttons, members, connected with said buttons, adapted for insertion through aligned openings in the front flaps of a shoe, means to connect said members on a transverse plane and means to adjust the tension of said connecting means, substantially as described.

1,428,620. METHOD AND APPARATUS FOR BALANCING CRANK SHAFTS AND THE LIKE. CARL L. WILBER, Detroit, Mich., assignor to The Jefferson Forge Products Co., Detroit, Mich., a Corporation of Michigan. Filed Feb. 14, 1921. Serial No. 444,926. 7 Claims. (Cl. 29—6.)

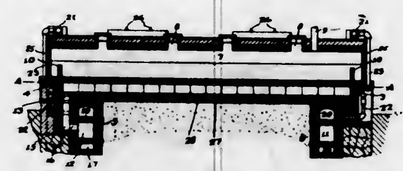


1. The method of balancing crank shafts and the like, comprising the forming of center bearings in the opposite ends of said shaft concentric to the axis of balance in the rough forging, finishing the forging and rebalancing the finished structure.

4. A device for balancing crank shafts and the like, comprising a member having a true cylindrical surface, means for engaging said member with the ends of the shaft and adjusting the same radially into concentric relation to the axis of balance in the rough forging, and a center bearing forming tool engageable with said member concentric to the cylindrical surface thereof for forming a center bearing in the end of the shaft.

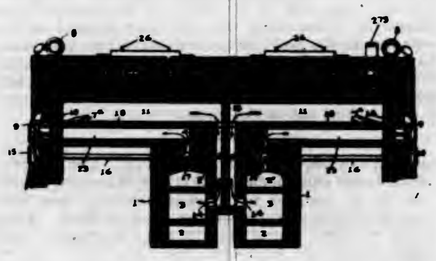
1,428,621. BY-PRODUCT COKE OVEN WITH SOLE FIRING. BERNHARD ZWILLINGER, New York, N. Y.; Klara Zwillinger, administratrix of said Bernhard Zwillinger, deceased. Filed Mar. 22, 1919. Serial No. 284,376. 23 Claims. (Cl. 202—9.)

1. A coke oven comprising an elongated oven chamber, open at both ends, said ends provided with doors for sealing the oven chamber against the admission of air, said oven chamber being also provided with a sole constructed to receive the charge in a horizontal layer, a plurality of



flues underneath the sole of the oven for heating it, and gas and air ports for each flue, the gas and air ports being arranged adjacent the inlet ends of the flues and at both ends of the oven.

1,428,622. SOLE-HEATED COKE OVEN. BERNHARD ZWILLINGER, New York, N. Y.; Klara Zwillinger, administratrix of said Bernhard Zwillinger, deceased. Filed Feb. 24, 1920. Serial No. 360,757. 25 Claims. (Cl. 202—9.)



20. In a sole fired coke oven, a sealed oven chamber, two systems of separate and independent combustion flues located beneath the sole, a transverse division wall, midway of the oven, for separating the two systems, and two sets of gas and air ports, each set adjacent to an end of the oven, for supplying gas and air to the flues.

1,428,623. LOAD-SUPPORTING BUILDING TILE. CHARLES R. BIRDSEY, Hinsdale, Ill., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 23, 1918. Serial No. 251,115. 5 Claims. (Cl. 108—10.)



3. A building tile having an inspection opening extending from its exterior inwardly thereof, in combination with reinforcing means embedded in the tile and terminating short of the exterior of the tile, said reinforcing means extending to said sight opening.

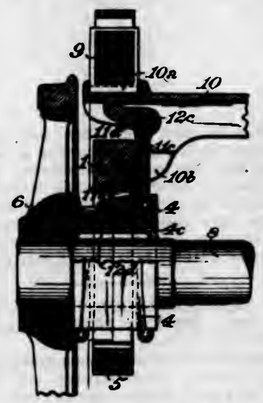
1,428,624. PLASTER BOARD. CHARLES R. BIRDSEY, Hinsdale, Ill., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 2, 1920. Serial No. 348,943. 4 Claims. (Cl. 154—45.9.)



2. A plaster board comprising a body, a cover sheet extending over one face of the body and folded over the edges onto the opposite side of the body with the edges adjacent each other, and a sealing strip arranged over and secured to said sheet at the junctures of said edges on the exterior of the cover sheet and depressed to substantially flush with the main portion of the face of the board.

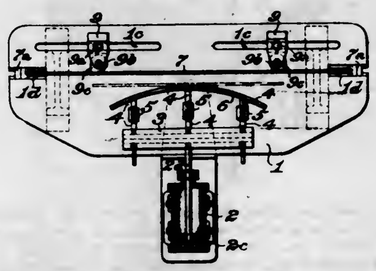
4. A plaster board comprising a body, a cover sheet extending over one face of the body and folded over the edges onto the opposite side of the body, with the edges of the sheet adjacent to but separated from each other, and a sealing strip arranged over said body in overlapping relation with the adjacent edge portion of the sheet.

1,428,625. LATERAL-MOTION APPLIANCE FOR LOCOMOTIVE DRIVING BOXES. ALFRED W. BRUCE, New York, N. Y. Original application filed Aug. 18, 1921, Serial No. 493,299, now Patent No. 1,414,455, dated May 2, 1922. Divided and this application filed Mar. 22, 1922. Serial No. 545,715. 2 Claims. (Cl. 105—80.)



1. In a locomotive engine, the combination of a side frame; a driving box, fitted, with the capacity of relative movement, therein; a spring supporting beam, which is vertically movable, relatively to the driving box; a link rocker, interposed between, and bearing on, the driving box and the supporting beam; and a pin, coupling said rocker to the supporting beam.

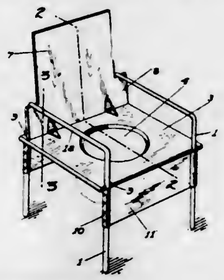
1,428,626. SPRING-FORMING MACHINE. THOMAS F. BUCKLEY, Scranton, Pa. Filed July 30, 1921. Serial No. 488,545. 6 Claims. (Cl. 153—51.)



1. In a spring forming machine, the combination of a supporting table, provided with guide slots; a flexible resistance member, extending longitudinally thereon; blocks, connected to the ends of said member and fitted to

slide in said guide slots in the table; means, located below the table and connected to said blocks, for imposing tension on the resistance member; a curved formation plate, which is movable towards and from the resistance member; and means for imparting movement to the formation plate.

1,428,627. COLLAPSIBLE TOILET CHAIR. BENJAMIN F. GRABFELDER, Stockton, Calif. Filed Aug. 24, 1921. Serial No. 494,915. 2 Claims. (Cl. 155—31.)

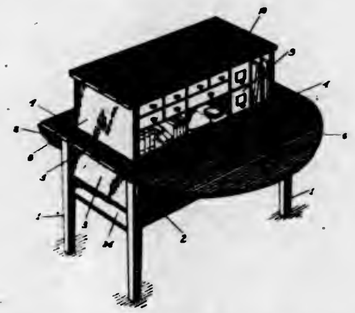


1. A collapsible chair comprising a pair of transversely spaced frames, each frame comprising a pair of spaced legs and a rigid connection therebetween and members turnably mounted on and extending between the corresponding legs of the opposed frames, and hinged together intermediate their ends in a vertical plane for folding movement inwardly of the frames, said members when outstretched being adapted to support a seat member.

1,428,628. PREPARED FLOUR. WILLIAM P. M. GEBLCK, St. Paul, Minn. Filed Nov. 24, 1919. Serial No. 340,405. 7 Claims. (Cl. 99—10.)

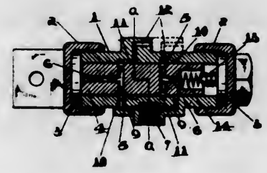
3. An improved flour comprising a non-glutenous cereal element, a glutenous cereal element, and approximately 4% of an acid milk product resulting from the removal of the milk fats and the major part of the original water of solution.

1,428,629. COMBINED TABLE AND BOOKCASE. CHARLES H. GUNN, Oakland, Calif. Filed May 16, 1921. Serial No. 469,802. 4 Claims. (Cl. 45—70.)



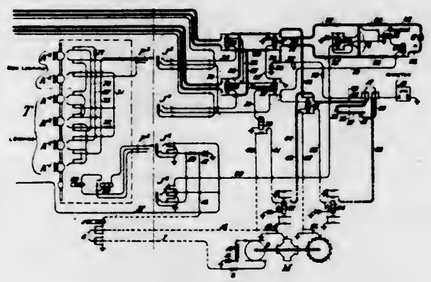
1 A combined table and cabinet comprising a permanent table portion provided with an enlarged opening, a cabinet slidably mounted in said openings for vertical movement therethrough, a folding table-top member hinged to the permanent table portion, raising mechanism for the cabinet, and actuating means for said mechanism mounted on the under side of the folding table member, said means being actuable at will after the folding member has been raised to an operative position.

1,428,630. VIBRATOR FOR RAPPING PATTERNS IN MOLDING. OLIVER S. HAMMOND, Guelph, Ontario, Canada. Filed Dec. 2, 1920. Serial No. 427,810. 1 Claim. (Cl. 22—56.)



In a vibrator, the combination of a body having an air inlet and a pair of outlets formed in its sides; a plunger adapted to reciprocate in said body, the body having a pair of annular channels formed in its inner surface at each side of the centre of its length, one channel at each end being in communication at all times with the air inlet, and the other channel at each end being at all times in communication with an air outlet and the plunger having an annular channel formed at each side of its centre, the channel at one side of the centre of the plunger being adapted to communicate with the inlet channel at the same side of the centre of the body while the other channel in the plunger is in communication with an outlet channel at the other side of the centre of the body, and passageways extending from each channel in the plunger to the adjacent end of the same.

1,428,631. TESTING AND ADJUSTING APPARATUS FOR CORD CIRCUITS. WILLIAM H. HARRISON, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 7, 1920. Serial No. 357,068. 6 Claims. (Cl. 179—175.)

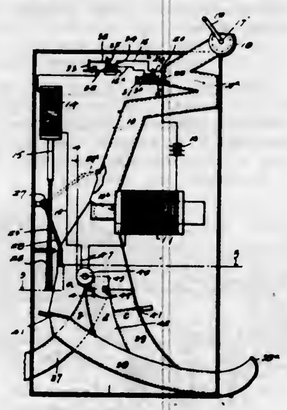


1. A testing system comprising an operator's cord circuit having a direct current relay and an alternating current relay, an auxiliary circuit associated with said relays, a testing circuit adapted to be associated with said cord circuit comprising individual equipment for testing the direct and alternating current relays, a portable test set adapted to be associated with the testing circuit and auxiliary circuit, switching means in said set for selectively associating the direct and alternating current relays with their individual equipment, a relay in said test set operable upon such association, and signaling means in said test set controlled by said relay for indicating the operation of the direct and alternating current relays.

1,428,632. AUTOMATIC COIN SELECTOR. DAVID HENDRICKSON, Berkeley, Calif. Filed Sept. 7, 1920. Serial No. 408,504. 12 Claims. (Cl. 194—99.)

1. A coin selector having an electro magnet of which the poles are separated to form an upwardly and downwardly open gap, a coin chute leading to the gap at an

inclination to effect a rolling movement of a coin traversing the same, a circuit including said electro magnet and

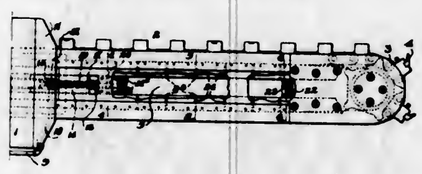


a source of energy and a switch having a dimensionally selective circuit closing element arranged in the path of a coin traversing the chute.

1,428,633. FERTILIZER MATERIAL AND PROCESS OF PRODUCING SAME. ADDISON F. HOFFMAN, Pittsburgh, Pa. Filed Apr. 23, 1918. Serial No. 230,342. 4 Claims. (Cl. 71—9.)

1. A fertiliser material precipitated from acid coal mine water by partial neutralization of its ferric sulphate content so that the major portion of the ferric content of the material is basic ferric sulphate, together with such organic matter as is a constituent of such water.

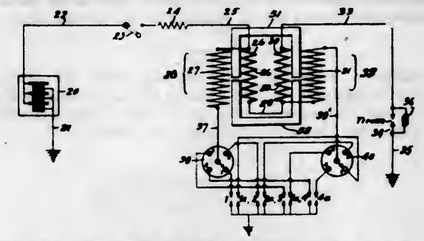
1,428,634. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 24, 1916. Serial No. 133,144. 25 Claims. (Cl. 262—30.)



1. In a mining machine, a cutter bar having a longitudinally disposed enclosed vertically central fluid conducting chamber therein and a series of laterally extending communicating outlets and a cutter chain movable around said bar.

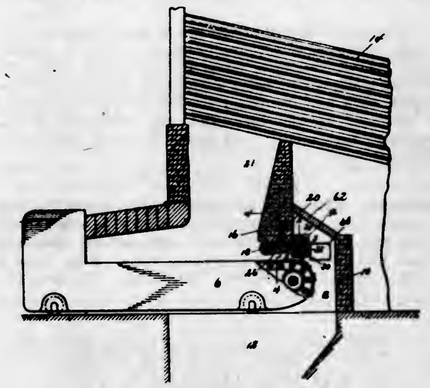
1,428,635. IGNITION SYSTEM. JOHN H. HUNT, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Sept. 28, 1918. Serial No. 256,000. 2 Claims. (Cl. 123—148.)

1. In an ignition system for internal-combustion engines having a plurality of spark plugs for each cylinder, the combination with a current source and a timer; of a plurality of ignition coils each having a primary winding and a secondary winding, the primary windings being connected on series with the timer and current source, and the secondary windings being arranged in parallel relation; a common magnetic circuit for the primary windings and providing an air gap within each winding; and



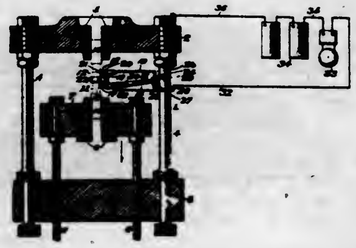
means for conducting sparking impulses from each of the secondary windings to one of the spark plugs in each cylinder.

1,428,636. FURNACE-BRIDGE-WALL CONSTRUCTION. FRANK A. HURLBUT, Flat River, Mo. Filed July 13, 1918. Serial No. 244,821. 4 Claims. (Cl. 110—40.)



2. A furnace construction comprising a fire chamber having a progressive feed stoker and a bridge wall overlying the rear end of said stoker, a gate structure associated with the lower portion of said wall and comprising a transverse shaft having a gate member provided with a bearing having a vertically elongated bearing passage accommodating said shaft, whereby said member is permitted a limited degree of free vertical sliding movement relatively to said shaft.

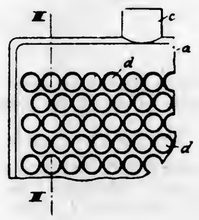
1,428,637. YIELD-POINT DETECTOR. MORTON C. HUTCHINSON, Woodbury, N. J., assignor of one-half to Leon G. Buckwalter, Merchantville, N. J. Filed Feb. 26, 1919. Serial No. 279,368. 10 Claims. (Cl. 73—51.)



1. In a device of the character described, a body portion, an arm carried thereby and provided with a point

to engage the specimen to be tested, a second arm pivoted upon the body portion and having a point to engage the specimen, means to hold the device in place while in use, and circuit closing means operated by the pivoted arm.

1,428,638. PROCESS FOR PRODUCTION OF HEAT-EXCHANGING BODIES. HANS FREDERIK BARKER JÖRGENSEN, Copenhagen, Denmark. Filed July 24, 1920. Serial No. 398,763. 2 Claims. (Cl. 204—8.)



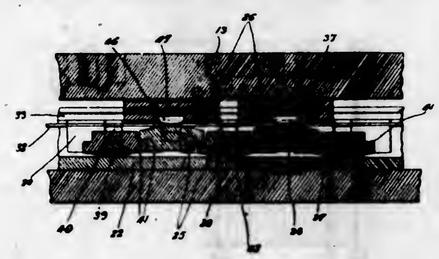
1. The herein-described process of manufacturing automobile radiators, comprising preparing a fusible metallic core; then depositing a metal electrolytically upon said core, such deposition being commenced in a non-acid depositing-bath and continued therein until a firm coating is produced on the core, and then completed in the depositing bath proper; and finally removing the core by melting it out.

1,428,639. METHOD OF PRODUCING VISIBLE SIGNALS AND ADVERTISEMENTS ON WATER SURFACES. HELMUT JÜNGHANS, Schramberg, Germany, and FRITZ GLOCAUER, Cincinnati, Ohio. Filed June 7, 1922. Serial No. 566,668. 15 Claims. (Cl. 40—125.)



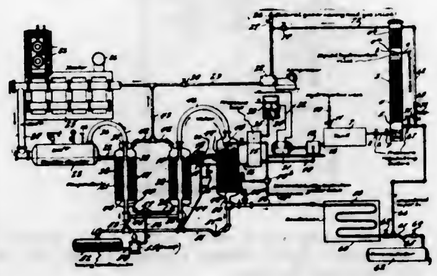
15. Apparatus of the character described, comprising a member adapted for disposition in water, and means associated with said member for graphically producing at the surface of the water a sign to be displayed; substantially as described.

1,428,640. BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Filed Dec. 31, 1917. Serial No. 209,617. 38 Claims. (Cl. 64—25.)



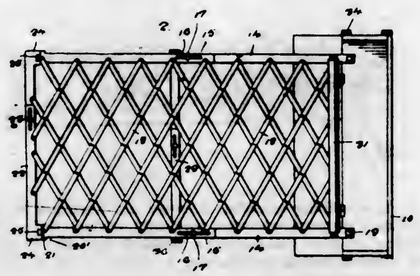
35. A bearing comprising a base ring, a plurality of equalizer plates mounted on said base ring to tilt only in a circumferential direction with respect to the axis of the bearing, equalizer plates mounted on and bridging the space between adjacent ends of said first-named equalizer plates and bearing shoes tiltably mounted on said last-named equalizer plates.

1,428,641. METHOD AND APPARATUS FOR TREATING OR CONVERTING COMPOUNDS PREFERABLY OF A HYDROCARBON NATURE. WILLIAM JOHN KNOX, New York, N. Y., assignor to Erskine D. Warren, New York, N. Y. Filed Mar. 24, 1919. Serial No. 284,818. 44 Claims. (Cl. 196—25.)



1. A process of producing hydrocarbon compounds which consists in evolving hydrocarbon vapor from hydrocarbon liquid at one point, heating the evolved vapor at a second point to a temperature sufficient to dissociate the hydrocarbons therein, utilizing the said heated dissociated vapor by contacting the same with the surface of hydrocarbon liquid at a third point to heat the latter and to evolve vapor therefrom, employing the resulting commingled vapor to evolve further vapor at the first point, and subsequently subjecting the said commingled vapor to condensation.

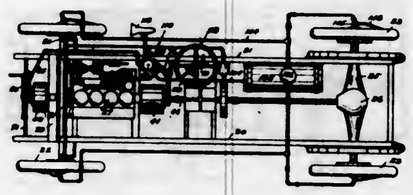
1,428,642. CONVERTIBLE COT AND TABLE. CHARLES LAMBIE and FREDERICK W. LAMBIE, Minneapolis, Minn. Filed Dec. 13, 1920. Serial No. 430,233. 2 Claims. (Cl. 5—72.)



1. A device of the character described comprising an enclosing box adapted to be clamped upon the running board of an automobile, a collapsible supporting frame normally disposed within said box and formed of a plurality of adjustably connected sections, a collapsible bottom member of lasy tong formation adapted to rest upon the supporting frame when assembled, in combination with a canopy structure including pairs of slidably adjustable uprights adapted for association with the ends of the box, the ends of the box being provided with sockets receiving said uprights, slidably adjustable inclined brace bars pivotally connected with said uprights, socket

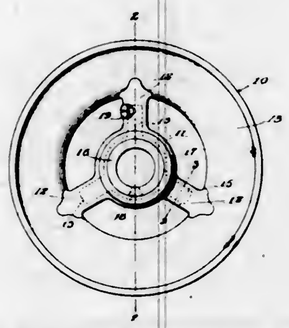
members formed on the intermediate portions of the side bars of the supporting frame, a verticle adjustable inverted U-shaped arch having lower ends of its arms detachably engageable with said second named socket, and a cover connected with the upper ends of said first named pairs of uprights stretched over said last named uprights and detachably connected with the end bar of the frame.

1,428,643. PNEUMATIC CONTROL SYSTEM. JAMES H. LANGLEY, Long Beach, Calif. Filed Oct. 3, 1918. Serial No. 256,654. 4 Claims. (Cl. 60—17.)



3. In a pneumatically controlled power transmission system for vehicles, the combination of a prime mover provided with a throttle valve, a power shaft secured to said prime mover, a pneumatic clutch comprising a casing secured to a section of said shaft, pistons in said casing connected to an independent section of said shaft, a speed governor geared to said engine, a pneumatic casing connected to said clutch, means connecting said pneumatic casing and said governor, and operating means secured to said throttle valve and to the aforesaid means.

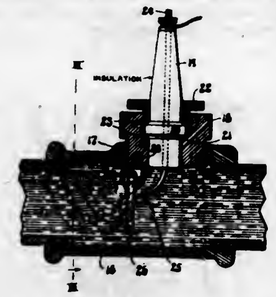
1,428,644. TROLLEY WHEEL. NATHAN L. LIEBERMAN, Bayonne, N. J. Filed Jan. 25, 1921. Serial No. 439,773. 2 Claims. (Cl. 64—26.)



1. In a lubrication system for trolley wheels, the combination with the wheel and axle, of a plurality of lubricant reservoirs formed one in each of the several spokes of the wheel, each reservoir being open to an annular outlet passageway common to the several reservoirs, the outlet passageway being formed in the hub of the wheel; the relation of the annular passageway to the axle being such that the lubricant contained in the reservoirs is continuously fed to the axle under all operating conditions.

1,428,645. FLUID-ACTUATED CIRCUIT CONTROLLER. GEORGE P. MCDONNELL, St. Louis, Mo. Filed Oct. 10, 1918. Serial No. 257,616. 4 Claims. (Cl. 200—81.)

4. A fluid actuated circuit controller comprising an annular collar adapted to enter an aperture in a fluid conduit, a plate formed conductor pivotally mounted on said collar, a core of insulating material positioned in said collar, and a conductor passing through said core and

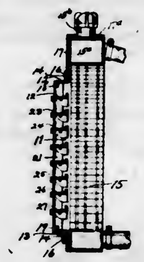


projecting therefrom to a position adjacent to the first conductor, said contacts being so disposed as to be immersed in the fluid when said closure is applied to said aperture.

1,428,646. METHOD OF PRODUCING BARIUM CHLORIDE. JAMES H. MACMAHON, Saltville, Va., assignor to The Mathieson Alkali Works, Inc., a Corporation of Virginia. Filed Aug. 20, 1920. Serial No. 404,788. 4 Claims. (Cl. 23—13.)

1. The method of producing barium chloride which comprises reacting upon finely ground barium carbonate with a hot solution of ammonium chloride to form barium chloride and volatile by-products, and removing the volatile by-products substantially as rapidly as formed by aspirating the solution with air.

1,428,647. SHUTTER FOR AUTOMOBILE RADIATORS. JACK E. MESSENGER, Des Moines, Iowa. Filed Jan. 28, 1919. Serial No. 273,635. 6 Claims. (Cl. 257—132.)

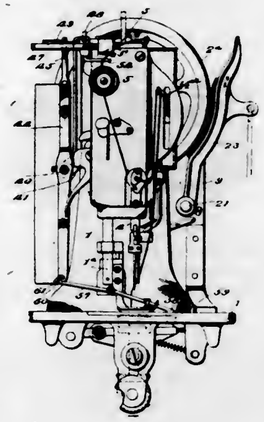


1. In an assemblage of the class described, the combination of a radiator and a shell therefor having an inner flange overlapping the margins of the radiator, and a shutter frame arranged in a plane parallel with and adjacent to said radiator and formed with a marginal flange located between and held by said radiator and inner flange, such engagement forming the only means for connecting said shutter frame to said radiator.

1,428,648. STOPPING MECHANISM FOR SEWING MACHINES. HENRY C. MILLER, Waterford, N. Y. Filed Nov. 12, 1917. Serial No. 201,583. 28 Claims. (Cl. 112—219.)

1. In combination, stitch forming mechanism, power means, thread tension devices, means for shifting the power, a trip actuated in one direction by the tension of

the thread, and means between the power shifting means and the trip to move said trip in opposition to the tension of the thread whereby the trip is constantly vibrated during the stitching operation, said trip having an abutment to cause actuation of the power shifting means when the thread breaks or becomes slack.



8. In a sewing machine, the combination of stitching mechanism, a driving shaft therefor, a stop motion, a tension trip actuated by the tension of the thread, a trigger co-operating with the trip means between the trigger and the driving shaft including a cam actuated latch, a cam actuated catch to periodically engage the latch, the latch holding the stop motion in position to permit operation of the stitching operation.

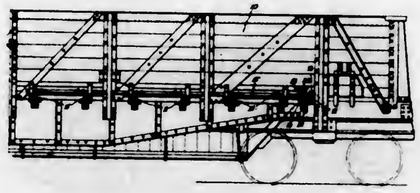
18. In combination, upper and lower stitch forming mechanism a take up member, power means, means intermittently operated by the power means for pulling off a definite supply of thread to supply the upper stitching mechanism, and connections between the thread pull off means and the power means for stopping the stitching mechanism if the lower thread pays out or the upper thread breaks or becomes slack.

1,428,649. LOCKING DEVICE FOR STEERING WHEELS. HIRAM C. MILLER, Parkesburg, Pa. Filed June 18, 1921. Serial No. 478,705. 5 Claims. (Cl. 70—129.)



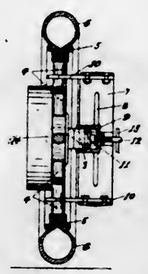
1. The combination with a steering column having a steering wheel, of a pair of clamps having portions concentric with said column, fillers between said portions and the column, a casing enclosing corresponding ends of said clamps, means securing said corresponding ends of said clamps together, means passing through the casing and said corresponding ends, the extremity of one of said corresponding ends having a sleeve, a locking element passing through said casing and through the sleeve and being operatively connected to one of the spokes of the steering wheel, and means in the casing operatively connected with the element for locking the same therein.

1,428,650. DUMP-DOOR-OPERATING MECHANISM. JOHN O. NEIKIRK, Lombard, Ill., assignor to Rodger Ballast Car Co., Chicago, Ill., a Corporation of Missouri. Filed May 13, 1922. Serial No. 560,532. 9 Claims. (Cl. 105—244.)



1. Door operating mechanism comprising a shaft, socket means rigidly connected thereto for convenience in applying a turning force to said shaft, stop means rigidly connected to said shaft, said stop means having stop members thereon in staggered relation, bracket means, and means pivotally connected to said bracket means for consecutively engaging said stop members.

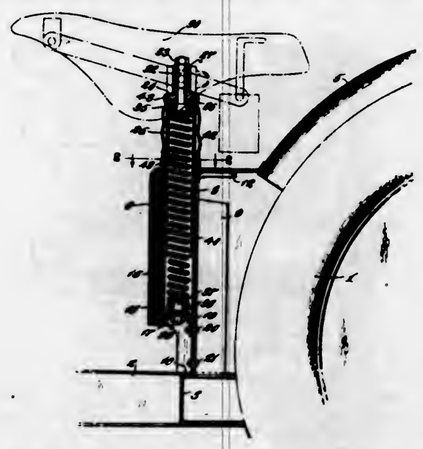
1,428,651. POWER ATTACHMENT. GEORGE R. NELSON, Center City, Minn. Filed May 29, 1922. Serial No. 564,359. 3 Claims. (Cl. 74—106.)



1. A power attachment for an auto-vehicle wheel consisting of a pulley having an integrally formed hub cup adapted to slidably and concentrically engage the hub of the wheel, hooks near the periphery of the pulley for engagement with the spokes of the wheel, and means operative against the hub of the wheel for forcing the pulley outwardly against the resistance of said hooks.

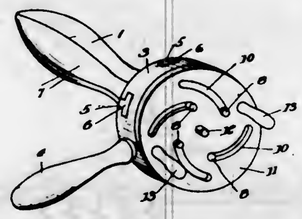
1,428,652. VEHICLE SEAT SUPPORT. BOUDEWIJN B. NEUTEBOOM, Detroit, Mich., assignor, by mesne assignments, to Sinclair Molitor Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 28, 1918. Serial No. 251,728. 7 Claims. (Cl. 208—61.)

1. In a seat support for vehicles, the combination of telescoping tubes of such cross-sectional shape as to hold them against relative turning, one of said tubes having the seat operatively connected to it, and the other being carried by the vehicle, a closure for the outer end of each tube, an anchorage member within each tube and



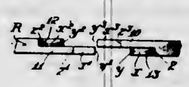
attached to the closure thereof, and a spring having its ends secured to said anchorage members.

1,428,653. DILATOR COMBINATION. PETER NICK, Los Angeles, Calif. Filed June 10, 1920. Serial No. 387,822. 2 Claims. (Cl. 174—89.)



1. A dilating instrument including a block provided with radial dove-tailed grooves in its forward face, slides mounted in said grooves, dilating members extending forwardly from said slides, said blocks being provided with slots extending through the rear thereof from said grooves, pins projecting from said slides through said slots, a disk pivoted on the rear of said blocks, said disk being provided with cam slots into which said pins extend whereby said dilating members are spread or closed when said disk is turned in one direction or the other.

1,428,654. PACKING RING. EDWARD R. NORMAN, Chicago, Ill. Original application filed June 4, 1917. Serial No. 172,604. Divided and this application filed Nov. 28, 1917. Serial No. 204,310. 2 Claims. (Cl. 74—109.)



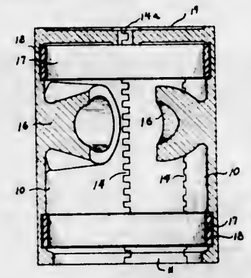
2. A transversely split packing ring having on each of its ends an outer projection and an inner shoulder, the projection on one end fitting over and contacting with the shoulder on the opposite end and the projections and shoulders all extending transversely of the ring to the median circumferential plane of the ring.

1,428,655. TELESCOPE-SIGHT MOUNTING. RUDOLF NOSKE, San Francisco, Calif. Filed Nov. 3, 1921. Serial No. 513,886. 6 Claims. (Cl. 33—50.)



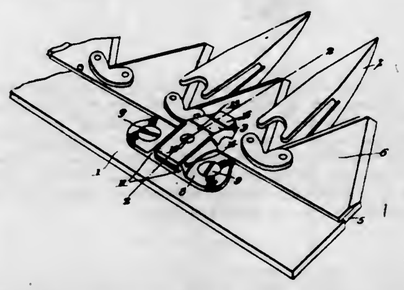
1. A mounting for telescope sights for rifles and the like comprising a stationary mounting plate having a groove in the top thereof and arranged to be secured upon the breach of a rifle; a movable mounting plate mounted upon said stationary plate, said movable plate having a transversely disposed groove matching with the groove formed in the top of the stationary plate; a pin slidably mounted between said matching grooves; and means for moving said pin into locking engagement between the plates to rigidly secure the movable plate against longitudinal movement when in use.

1,428,656. SECTIONAL PISTON FOR ENGINES. HANS PETERSEN, Davenport, Iowa. Filed July 22, 1921. Serial No. 486,662. 7 Claims. (Cl. 74—108.)



1. A device of the class described, comprising a cylindrical body formed of two or more sections having interlocking edges, and a segmental head the edges of which are fitted with inter-engaging tongues and grooves.

1,428,657. SICKLE. WILBUR F. PURDY, Chinook, Mont. Filed July 30, 1921. Serial No. 488,639. 2 Claims. (Cl. 56—305.)



1. In a mowing machine, a finger bar having a guard carrying a stationary cutter, a reciprocating cutter co-operating therewith, a clip including a base secured to the finger bar, spaced ribs on the base providing a pocket therebetween, a body pivotally secured in the pocket to the ribs, said body having its outer portion widened to provide shoulders that are disposed opposite the ribs and to provide a finger outward of the shoulders,

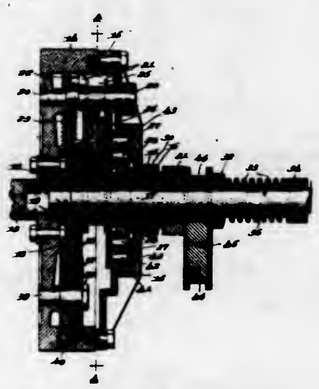
spring means exerting a lifting pressure between the body and the base, removable means adjustably connecting the body to the base, whereby the finger of the body may be brought into frictional contact with the base of the said body and its finger swung away from the base, and said adjusting means providing a guide for the spring.

1,428,658. LAP. LORENCE S. RASMUSEN and HERMAN B. CARLSON, Davenport, Iowa. Filed Feb. 15, 1921. Serial No. 445,071. 12 Claims. (Cl. 51—206.)



1. A lap including a tubular body, a conical seat arranged within the body having slots arranged therein, a plug slidable within the body and having a tapering point engaging the seat, a movable sleeve threaded into one end of the body, elastic means disposed between the sleeve and plug whereby adjustment of the sleeve will cause the plug to expand the walls of the body, and means carried by the plug to engage the slots in the seat for preventing turning movement of the plug during the expansion.

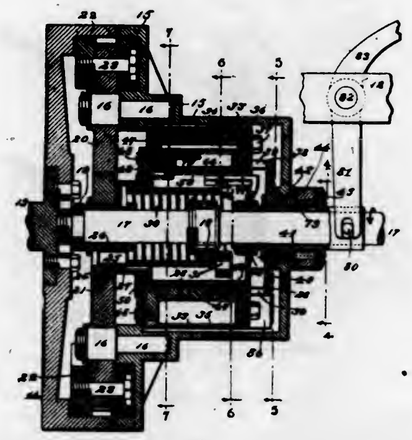
1,428,659. VARIABLE-SPEED TRANSMISSION. JOHN REECE, Boston, Mass., assignor to Reece Transmission Company, Boston, Mass., a Corporation of Maine. Filed Mar. 11, 1920. Serial No. 364,895. 15 Claims. (Cl. 74—34.)



1. A variable speed transmission apparatus comprising in combination, a rotating driving member, an elastic device eccentrically secured to said driving member, a rotatable driven member, and a train of connections, between said elastic device and the driven member, including a one-way device controlling the same, whereby rotation is transmitted through said device, in one direction only, to the driven member.

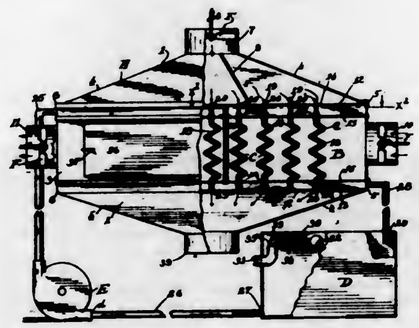
1,428,660. VARIABLE-SPEED TRANSMISSION. JOHN REECE, Boston, Mass., assignor to Reece Transmission Company, Boston, Mass., a Corporation of Maine. Filed Mar. 11, 1920. Serial No. 364,896. 11 Claims. (Cl. 74—34.)

1. A variable speed transmission apparatus comprising in combination, a rotating driving member, a yielding and reasserting device carried on said driving member, a rotatable driven member, and a train of connections, between said device and the driven member, including a one-way device controlling the same, whereby rotation is transmitted through said device, in one direction only, to the driven member; said one-way device consisting of a



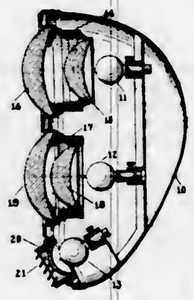
hydraulic mechanism substantially as described wherein the liquid flows in one direction during forward rotation but is checked against reverse flow.

1,428,661. AIR COOLER. ROBERT N. RICHARDSON, Los Angeles, Calif. Filed Feb. 25, 1920. Serial No. 361,140. 2 Claims. (Cl. 62—139.)



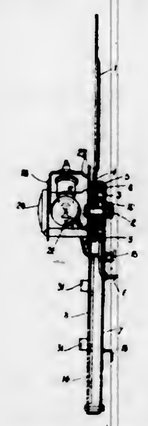
1. In an air cooling device, including a housing, a casing having an air inlet and outlet opening within said housing, a hood having an air inlet opening mounted above said casing, a hood having an air outlet opening mounted below said casing, liquid tanks mounted above and below the casing within the housing and covered by the base portions of the hoods, said tanks having their top and bottom walls perforated, tubular members within the casing, a portion of the upper ends of which passes through the perforations in the walls of the upper tank and communicates with the interior of the upper hood, while a portion of the lower ends of same passes through the perforations in the lower tank walls and communicates with the interior of the lower hood, means within the casing for forcing a stream of air therethrough, and means within the upper hood for drawing air within the same through the tubular members.

1,428,662. VEHICLE HEADLIGHT. WALTER D'ARCY RYAN, Schenectady, N. Y. Filed Dec. 17, 1921. Serial No. 523,033. 2 Claims. (Cl. 240—41.)



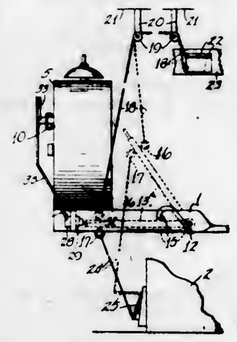
1. A headlight composed of a three unit combination, the first unit comprising a light source and two jointly functioning lens to gather the light rays and project them forwardly in a long, narrow and glareless beam; the second unit comprising a light source and two jointly functioning lenses to gather and disperse the light rays in a broad, glareless, manner, in the field between the long beam and near the vehicle, the third unit comprising a light source, and a deflecting medium to deflect the rays to the roadway immediately in advance of the machine; and to the sides thereof, substantially as shown and described.

1,428,663. MOTOR DIRECTION INDICATOR. MORRIS SHACHTMAN, London, England. Filed July 15, 1921. Serial No. 485,035. 2 Claims. (Cl. 116—51.)



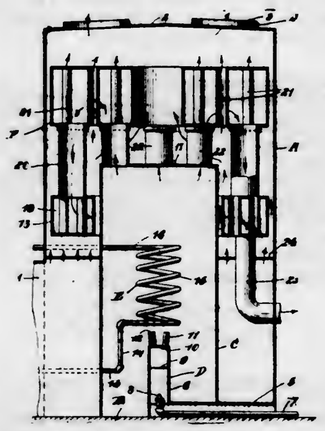
1. A direction indicator for motor vehicles comprising in combination a pivoted indicating plate provided with desired warning indications, a cover or shield behind which the pivoted plate is normally concealed, a pulley on the pivoted plate, a rotatable controlling switch placed conveniently to the driver and wholly flexibly connected to the indicator, stops for holding the switch in predetermined positions corresponding with the required positions of the pivoted indicating plate, a flexible cable, one end of which is connected to the controlling switch and the other end to the pulley on the pivoted plate, a coil spring arranged within the pulley on the pivoted plate and acting to normally hold the plate behind its shield or cover, a stop against which the pivoted plate bears when in the concealed position and hook shaped stops which hold and retain the pivoted plate in the indicating positions.

1,428,664. DRAFT REGULATOR. WILLIAM W. SMALLEY, Chicago, Ill. Filed Jan. 11, 1922. Serial No. 528,462. 6 Claims. (Cl. 161—8.)



1. A device of the type described comprising an L-shaped bar, a spring-pressed frame pivotally carried by said bar, the free end of said frame adapted to be normally disposed in the bend of said L-shaped member, a sleeve carried by said bar, and having a slot therein, a finger carried by the free end of said frame and adapted to enter said slot and to be received in said sleeve, a clock having an alarm winding stem, and means operatively connecting said stem to said sleeve, whereby the rotation of said sleeve will release said frame.

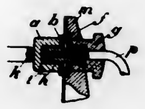
1,428,665. HOT-AIR FURNACE. ADAM L. SMITH, Youngstown, Ohio. Filed Feb. 11, 1921, Serial No. 444,167. Renewed Feb. 14, 1922. Serial No. 536,537. 1 Claim. (Cl. 126—116.)



In a furnace of the class described, a supporting base, a closed casing mounted on said base, a cold air supply conduit opening into the lower portion of said casing through one side wall thereof and hot air outlets in the top of said casing, a main heating chamber within the casing with the walls thereof spaced from the casing walls, heating means in said chamber, an auxiliary air heating chamber arranged above said main heating chamber and

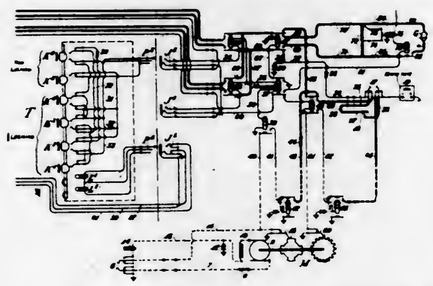
extending adjacent to and spaced from said casing walls, pipes connecting said main and auxiliary heating chambers, a supplementary air heating chamber surrounding said main chamber at a point below the auxiliary chamber and having a plurality of cold air pipes extending therethrough, pipes connecting said auxiliary and supplemental heating chambers, and an exhaust pipe leading from the bottom of said supplemental chamber.

1,428,666. SHORT-CIRCUIT TERMINAL FOR THE MAGNETO-ELECTRIC IGNITION APPARATUS OF INTERNAL-COMBUSTION ENGINES. GOTTLIEB STEINER, Solothurn, Switzerland, assignor to the Firm Scintilla, Solothurn, Switzerland. Filed May 28, 1920. Serial No. 385,057. 2 Claims. (Cl. 123—149.)



1. A short circuiting device for the primary winding of the magneto electric ignition apparatus of internal combustion engines, including an internally screwed metal socket fixed in an insulated manner inside the magneto casing, a cylindrical metal piece externally screwed for co-acting with said internally screwed socket and connecting one end of a short circulating cable to said internally screwed socket and a cylindrical extension, formed of insulating material, of said externally screwed metal piece external to said magneto casing and partly enclosing and rigidly attached to said externally screwed metal piece, the said short circuiting cable traversing said externally screwed cylindrical metal piece and its insulated extension in an axial direction, thus permitting of the simultaneous attachment or removal of the cable and the said externally screwed metal piece with its insulated extension.

1,428,667. TESTING AND ADJUSTING APPARATUS FOR CORD CIRCUITS. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 9, 1920. Serial No. 364,397. 6 Claims. (Cl. 179—175.)

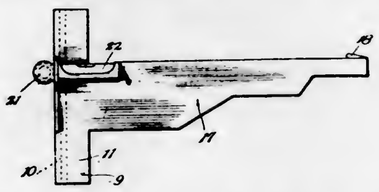


1. A testing system comprising an operator's cord circuit, electromechanisms included in said circuit operable by current of different characteristics, an auxiliary circuit associated with said electromechanisms, a testing circuit adapted to be associated with said cord circuit, a portable test set adapted to be associated with said testing circuit and said auxiliary circuit, switching means in said set for controlling the application of current to said electromechanisms, and signaling means in said set operable when associated with said auxiliary circuit for indicating the action of said electromechanisms upon the application of current thereto.

1,428,668. PROCESS FOR THE PRODUCTION OF ACETALDEHYDE FROM ACETYLENE. LAURENT EMILE MARIE TREVOUX, Petit-Quevilly, France, assignor to La Société Anonyme de Produits Chimiques Etablissements Malétra, Petit-Quevilly, France. Filed May 31, 1921. Serial No. 473,803. 7 Claims. (Cl. 204—9.)

1. The process for the regeneration of the residual reaction liquors obtained in the synthetic production of acetaldehyde from acetylene, in the presence of metallic mercury in an acid medium, and of a substance adapted to maintain the catalyzing action of the mercury, which comprises removing the acetaldehyde and mercury from said liquor and submitting the remaining liquor to an oxidizing action.

1,428,669. STADIA-ROD ATTACHMENT. JOHN D. WATSON, Lake City, Calif. Filed Jan. 29, 1921. Serial No. 441,092. 4 Claims. (Cl. 33—46.)



1. The combination with a stadia rod, of a member mounted thereon and provided with front and rear sights aligned at a right angle to the rod, and a level indicating means located in juxtaposition to one of said sighting elements.

1,428,670. VACUUM-OPERATED COW MILKER. JOSEPH NORMAN WILLIAMS, Pukeatua, and HARRY CYRIL MIDDLETON, Te Awamutu, New Zealand. Filed June 27, 1921. Serial No. 480,807. 1 Claim. (Cl. 31—73.)

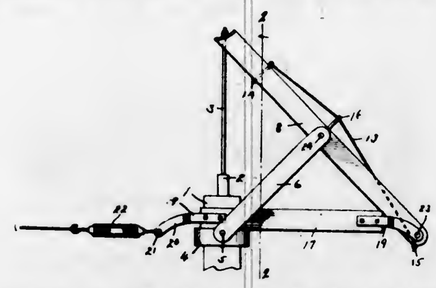


In combination with the vertical air pipe of vacuum operated cow milking apparatus, a central pipe interposed in said vertical air pipe and having upper and lower openings in its sides and a block between said openings, and an airtight transparent vessel secured to and surrounding said central pipe.

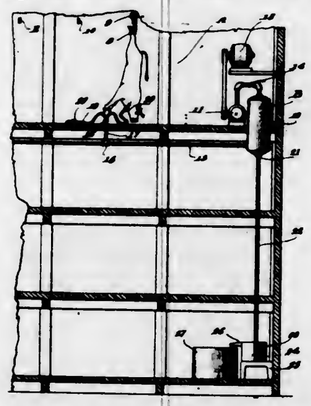
1,428,671. OIL-WELL PUMP JACK. HERMAN R. WILLIS and REUBEN M. WILLIS, Chanute, Kans. Filed July 30, 1920. Serial No. 399,976. 1 Claim. (Cl. 74—5.)

A pumping jack comprising a collar clamp adapted to embrace the head of a well casing, oscillating arms pivotally connected at one end to said collar clamp, a lift beam pivotally attached to the opposite ends of said arms, said lift beam being slit longitudinally at one end to provide resilient tongues, an apertured plate secured to the top of said tongues for maintaining the same sprung apart and also constituting a guide for a pump rod passing

through the slit portion of the beam, parallel side bars, connected to the opposite end of the lift beam and slidable over the collar clamp and connecting means at the front end of the slidable bars for actuating the lift beam and pump rod.

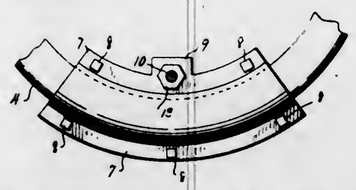


1,428,672. METHOD AND APPARATUS FOR REMOVING BLOOD FROM ANIMALS IN PROCESS OF SLAUGHTERING. JOHN A. WILSON, Kansas City, Kans., assignor to The Wilson Slaughtering Device Co., Kansas City, Mo., a Common Law Trust. Filed Mar. 2, 1920. Serial No. 362,684. 25 Claims. (Cl. 17—30.)



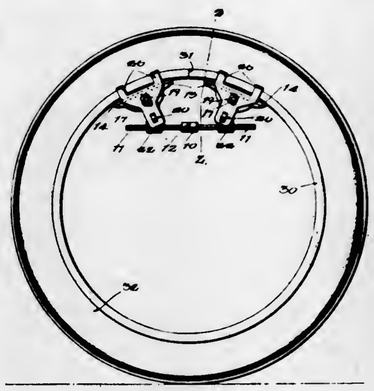
1. That step in the process of killing animals consisting of piercing the animal's throat and drawing the blood from the wound by a vacuum.

1,428,673. BRAKE. WILLIAM R. ABELL, Marbury, Md. Filed July 16, 1921. Serial No. 485,225. 3 Claims. (Cl. 188—204.)



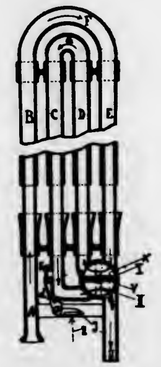
2. The combination of an arched shaped lever for motor vehicle brake beams and a member for connecting said lever to connectors for the brake shoes comprising a pair of plates arcuately curved longitudinally to conform to the curvature of the arch and formed transversely to fit the cross sectional contour of the arch, and means for securing the plates together upon the arch.

1,428,674. RIM REDUCING AND EXPANDING IMPLEMENT. JAMES R. ABERCROMBIE, Siloam Springs, Ark. Filed Jan. 21, 1922. Serial No. 530,988. 2 Claims. (Cl. 157—1.)



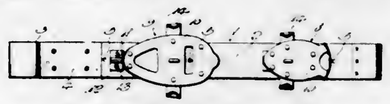
1. An implement for reducing and expanding rims, including a pair of clamping members, each having a solid transversely bored body portion provided with a depending portion and with side lugs below the ends of its bore, a pair of clamping side plates having upper rim engaging hooks and also provided with body openings to aline with the bore of the body of the clamping member, and with lower slotted openings to receive the lugs of said body, clamping bolts extending through the bore of the body and through said clamping side plates, and a nut swiveled in the depending portion of the body, and an actuating rod having oppositely threaded side portions extending through the said swiveled nuts for shifting the clamping members toward and away from one another.

1,428,675. TROMBONE. JOSEF FRANZ SERAFIN ALSCHAUSKY, Gautzsch, near Leipzig, Germany. Filed Oct. 21, 1920. Serial No. 418,609. 2 Claims. (Cl. 84—395.)



1. An improved trombone comprising in combination with the mouth piece and the bell tube, four main tubes, two U-shaped slides connecting said tubes into an outer pair and an inner pair, a three port valve located to connect at will either an outer tube or an inner tube directly to the bell tube, and means for operating said valve so that the two inner main tubes are shut off, the instrument being thus transformed into an alto-trombone.

1,428,676. SNOW SKATE. PETER BARLOW, Rochester, Minn. Filed May 31, 1921. Serial No. 473,719. 1 Claim. (Cl. 46—67.)



A skate of the class described comprising a runner, having a plurality of vertical longitudinally alined bolt-holes, plates secured to the under face of said runner, having rows of alined screw-threaded holes alined with said bolt-holes, foot supports shiftable along the upper face of the runner, and retaining bolts carried by said supports, said bolts extending through the bolt holes and having their lower threaded ends engaged with the threaded holes in said plates.

1,428,677. DOLL. ELIZABETH BARRY, Portland, Oreg. Filed Sept. 22, 1921. Serial No. 502,375. 4 Claims. (Cl. 46—40.)



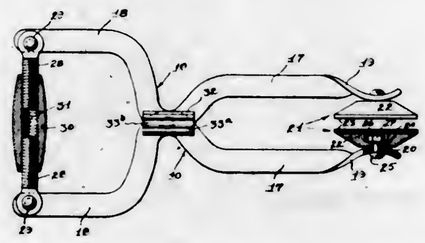
1. In a doll, a head comprising a covering having a strip secured at the ends thereof and extending from the front towards the back, flexible material extended beneath the strip to simulate hair, the strip also defining a part in the hair.

1,428,678. CLASP. SAMUEL BUCHSBAUM, Chicago, Ill. Filed Oct. 20, 1919. Serial No. 331,840. 4 Claims. (Cl. 24—238.)



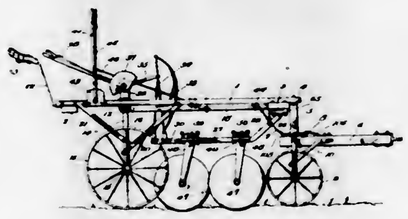
3. A clasp of the character described comprising a main element having a hook shaped portion, and a straight portion, a tubular member slidable on said straight portion and adapted to engage said hook shaped portion to close the opening in said hook and a stop on said main member opposite said straight portion to retain said slidable member in hook closing position, said stop and said straight portion cooperating to retain said slidable member in inoperative position when said member is moved therebetween.

1,428,679. GLASS TONGS. CARL F. CASWELL, Coon Rapids, Iowa. Filed Sept. 8, 1919. Serial No. 322,488. 5 Claims. (Cl. 294—28.)



1. In a device of the class described, a pair of levers pivotally connected between the ends thereof, the junction between said levers forming a rest adapted to bear against an object grasped by the device, the adjacent ends of the levers forming opposed arms on one side of the rest and opposed jaws on the other side of said rest, a revoluble grip carried by said arms and providing a combination handle and arm actuating device for spreading, retracting and locking the arms with respect to each other to thereby close, open and secure said jaws.

1,428,680. HOE. CHARLES H. CLARK, Easton, Me. Filed June 9, 1920, Serial No. 387,707. Renewed Mar. 2, 1922. Serial No. 540,614. 2 Claims. (Cl. 97—85.)
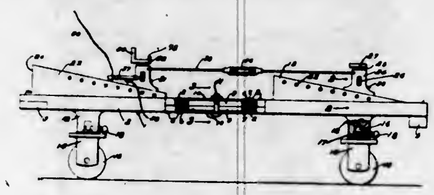


1. In a machine for the purposes set forth, the combination of a main frame consisting of longitudinal beams, cross beams secured to and extending laterally beyond said beams, a rolling support for the front end of said frame, the width of said support being less than the length of the cross beams, longitudinal coupling bars having their ends secured to the ends of the respectively adjacent cross beams, axle members secured to the ends of the rear cross beam, wheels mounted upon said axle members, braces secured to said axle and extending forwardly therefrom to the longitudinal coupling bars and secured thereto, and other braces secured to said axle members and extending rearwardly and inwardly therefrom and secured to the side beams of the main frame.

1,428,681. AUTOMOBILE TRUCK. REUBEN S. CLYMER, Quakertown, Pa. Filed Sept. 23, 1920. Serial No. 412,176. 2 Claims. (Cl. 254—88.)

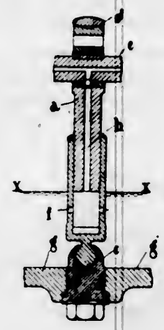
1. In a device of the class described, a frame comprising parts which are relatively adjustable with respect to each other to alter the length of the same; means for holding said parts in adjusted positions with respect to each other; anti-friction devices fixed on the frame for rotation and located in parallel planes inclined with respect to the horizontal; lifting jacks mounted to travel on the anti-friction devices, each jack comprising parts connected for relative vertical movement, and means

under the control of an operator for producing relative lifting movement between the parts of the jack; a longitudinally adjustable connection between the jacks; a latch pivotally mounted with respect to one jack and



cooperating with a portion of the frame to hold the jacks against downward sliding movement on the anti-friction devices; and means for operating the latch from a remote point.

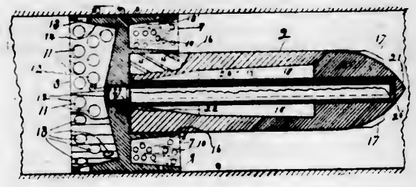
1,428,682. MEANS FOR LUBRICATING INTERNAL-COMBUSTION ENGINES. GEORGE CONSTANTINESCO, Weybridge, England. Filed Feb. 11, 1919. Serial No. 276,342. 3 Claims. (Cl. 184—27.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



2. Means giving a continuous delivery for lubricating internal combustion engines comprising a pivot on the crank case of the engine, a cylinder oscillating about the pivot and being immersed and oiled and provided with openings near its lower end permitting of the passage of oil into the cylinder, an eccentric on the crank shaft of the engine, a piston operating in the cylinder and operably connected about the eccentric on the crank shaft so as to be reciprocated during the rotation of the crank shaft, the piston being designed to close the openings in the cylinder on its downward stroke and being provided with a longitudinal passage way through which the oil is pumped to the system to be lubricated and the pumping being effected by the inertia of the liquid column in the piston.

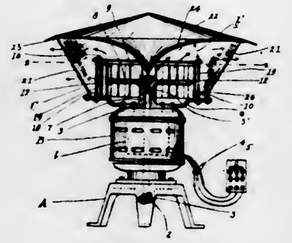
1,428,683. PROJECTILE. KENNEDY DOUGAN, Minneapolis, Minn. Filed Aug. 1, 1918. Serial No. 247,860. 6 Claims. (Cl. 102—29.)

5. A projectile, a circular head of larger diameter than said projectile detachably secured thereto and separable therefrom by the greater respective air pressure exerted thereon in proportion to their weights when traveling rapidly through the air, a cylinder formed axially in said projectile having its rear end open, a plurality of cylinders telescopically mounted in said first named cylinder, means for limiting the outward movement of said second named cylinders, a head having greater diameter than that of the smallest of said plurality of cylinders rigidly secured to or formed integral with the rear end of said smallest cylinder, a cylinder formed in the front side of the aforementioned first named head having its front end open and adapted to receive said second named head, and



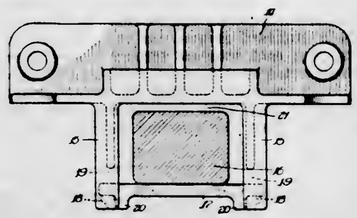
means for flexibly holding said second mentioned head in said cylinder in said first mentioned head, said means being adapted to draw said plurality of cylinders out of said first mentioned cylinder when said head moves slower than said projectile.

1,428,684. SIREN. EMIL W. ERICK, Canby, Minn. Filed Dec. 14, 1921. Serial No. 522,316. 5 Claims. (Cl. 116—147.)



1. In a siren, the combination of a frame, a rotor revoluble on said frame, fastening means engageable by a stator for fastening the latter in operative position to the frame around the rotor, and a round stator having a plurality of ports in its peripheral wall and consisting solely of an open ended relatively thin sheet metal shell, the ported wall of the shell being so thin as to be incapable of maintaining the shell in true circular form without additional support, said shell engaging with said fastening means to be thereby fastened and supported in true circular form to permit said rotor to freely rotate therein.

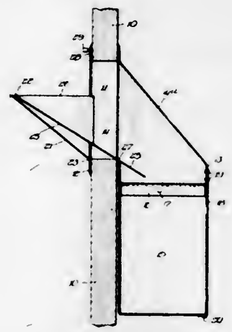
1,428,685. CARRY-IRON ARRANGEMENT. FRITZ B. ERNST, Chicago, Ill. Filed Jan. 24, 1921. Serial No. 439,540. 5 Claims. (Cl. 213—42.)



1. A striking casting having depending arms adapted to receive a carry iron, a carry iron retained therein, a draw bar supported by the carry iron and having a predetermined vertical clearance from the striking casting,

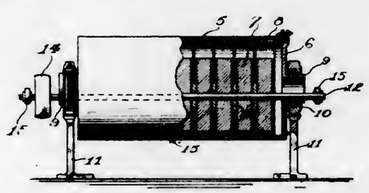
and interengaging lugs upon the ends of the carry iron and the casting arms, the interengaging portions of the carry iron and casting being greater in extent than the draw bar clearance.

1,428,686. ASH RECEPTACLE. HARRY L. FARGO, Ripon, Wis. Filed Jan. 29, 1921. Serial No. 440,841. 12 Claims. (Cl. 220—18.)



12. In an ash receiving device comprising an upper receptacle having an opening therein, a lower receptacle detachably secured to said upper receptacle, a frame adapted to be secured to the dash of an automobile, a door hingedly secured to said frame, and an apron hingedly secured to said door and extending through an opening in the said dash and into the said upper receptacle, the said apron having upturned wing portions at its sides whereby a channel is formed leading into the said receptacle.

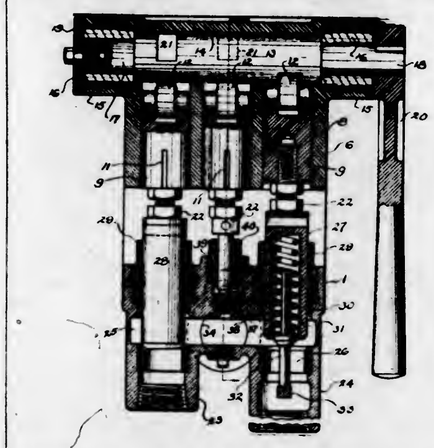
1,428,687. TUBE MILL. JOSÉ FERENCZ, Curityba, Parana, Brazil. Filed Apr. 30, 1921. Serial No. 465,692. 1 Claim. (Cl. 83—9.)



The combination of a pair of pedestals, fixed bearings thereon, a drum disposed between said pedestals and having hollow trunnions at its ends journaled in said bearings, a standard secured on one pedestal, an arm extending from said standard through the adjacent trunnion, a bar carried by said arm and disposed longitudinally within the drum, and grinding rollers suspended from said bar within the drum to co-operate with the inner surface of the drum for grinding material fed into the drum.

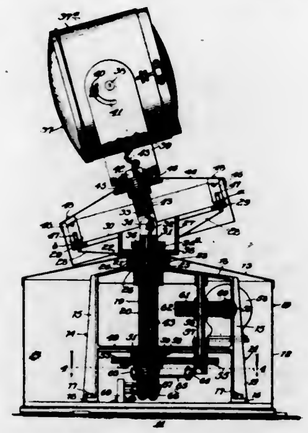
1,428,688. HYDRAULIC VALVE. HERBERT L. FRITTS, Detroit, Mich. Filed Apr. 2, 1921. Serial No. 457,881. 11 Claims. (Cl. 135—16.)

1. A valve of the type described comprising a body having a chamber adapted to communicate with high and low hydraulic pressues and a discharge connection, high and low pressure valve members operatable in said valve body and adapted to be opened by hydraulic pressure, an exhaust valve member operatable in said valve body, means



adapted to open said exhaust valve member, and rotary means adapted to successively close said valves and permit of only one of said valves being opened at a time.

1,428,689. MECHANISM FOR OPERATING SEARCHLIGHTS. LOUIS GREENBERG, Chicago, Ill. Filed Jan. 29, 1919, Serial No. 273,730. Renewed Dec. 9, 1921. Serial No. 521,252. 13 Claims. (Cl. 240—48.)

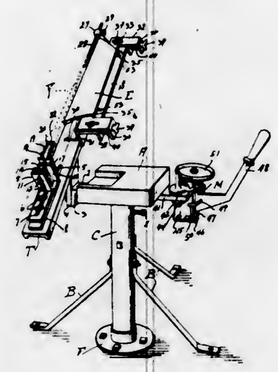


6. The combination with a base, of two upright shafts rotatably mounted therein, a search light tiltably connected with one of said shafts, the other shaft being provided with an annular track having all portions thereof in an inclined plane arranged substantially transverse to the longitudinal axis of said shafts, said search light having rollers bearing against said track, and means for turning said shafts.

1,428,690 GAUGE. ALBERT M. GUILLET, Charlotte, N. C Filed Feb. 26, 1920. Serial No. 361,542. 6 Claims. (Cl. 33—174.)

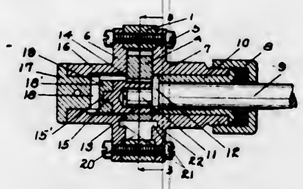
1. A device of the class described comprising a support, a table carried thereby, an elongated support for the

whirl end of a spindle carried by said table, and a spindle center carried by the table, said spindle center having its



longitudinal axis disposed in alinement with the longitudinal axis of said support.

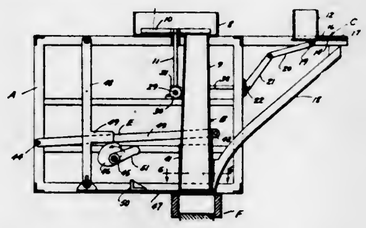
1,428,691. ROTARY PUMP. WILLIAM A. HATCHER, Detroit, Mich., assignor to Wernicke-Hatcher Pump Company, Grand Rapids, Mich, a Corporation of Michigan. Filed Feb. 19, 1921. Serial No. 446,470. 3 Claims. (Cl. 103—44.)



1. In a rotary pump of the class described, the combination of a suitable cylinder with intake and discharge ports, a cylindrical piston therein of less diameter than said cylinder, arranged and disposed in contact with said cylinder, suitable heads for the said cylinder, one of which is provided with a hub and stuffing box, a shaft disposed in said hub with a crank pin at its inner end on which said piston is journaled, a bushing between said crank pin and said piston secured to the said piston and having a diametrically-disposed rib at the end thereof, the opposite head of said cylinder being provided with a cap and having within the same a diametrically-disposed rib, a block between said bushing and cap having recesses for the said ribs on opposite faces thereof disposed in planes at right angles to each other, and a sliding vane between said piston and said cylinder separating the intake from the discharge, all coacting substantially as described for the purpose specified.

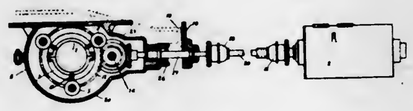
1,428,692. VENEERING APPARATUS. JOHN HERMAN, Los Angeles, Calif. Filed Aug. 23, 1920. Serial No. 405,398. 5 Claims. (Cl. 25—41.)

1. In a veneering machine, the combination with a mold box of a chute to feed pulp thereto for the body of a block, an apron movable into said box to provide a facing space therein, a hopper for facing material, means to deliver from said hopper to said facing space a quantity of facing material, means to open said chute to said box,



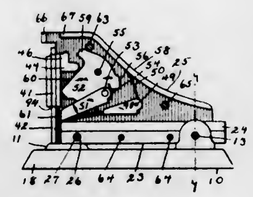
and means to successively move said apron into said box, deliver facing material of substantially the same dimensions as said facing space thereto and open said chute.

1,428,693. AXLE-DRIVEN-TRANSMISSION MECHANISM. GEORGE EGBERT HULSE, Newark, N. J., assignor to Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed May 6, 1919. Serial No. 295,190. 10 Claims. (Cl. 74—56.)



1. In combination, a tubular drum, a rotative axle extending continuously through said drum and operatievly connected therewith, an external gear on said drum, a counter-shaft having its axis parallel to the axis of said drum, a relatively wide pinion on said counter-shaft meshing with said gear, a bevel gear on said countershaft, a driving shaft having its axis at right angles to the axis of said counter-shaft, a bevel gear thereon meshing with said first-mentioned bevel gear, and a casing enclosing said drum and gears and supporting said countershaft.

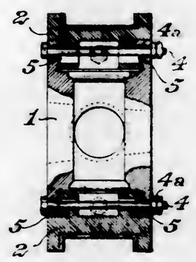
1,428,694. STAPLE BINDER. BERTHOLD JAHN and ERNEST EMIL KAHL, New Britain, Conn., assignors to The B. Jahn Manufacturing Company, New Britain, Conn., a Corporation. Filed Nov. 25, 1916. Serial No. 133,357. Renewed Feb. 23, 1921. Serial No. 447,224. 3 Claims. (Cl. 1—23.)



2. In a staple binder, a die member positioned between a pair of side frames, pivotally connected by one end to the base, and having a die at the other end, the lower portion of the said die member fitting between the said side frames, and the upper portion thereof having recesses at the sides suitably to receive a staple strip, and the said die member being formed of two parts of sheet metal, one of the said parts being bent transversely into generally U-shape with an off-set in the side walls to provide for

the said recesses, and the other of the said parts being of U-shape and fitting and filling the said lower portion of the said one part, the said die member having a bed for a die of generally conical form, and the said die member having means for adjustably holding the die for permitting of changing the active cutting edge portion.

1,428,695. CROSSHEAD. JULIUS KINDERVATER, New York, N. Y. Filed Oct. 22, 1921. Serial No. 509,480. 3 Claims. (Cl. 74—84.)



1. The combination of, a cross head, having undercut or dovetailed slipper recesses on its guide adjoining sides; correspondingly tapered slippers fitted in said recesses; and means, interposed between the inclined sides of said slippers and recesses, for effecting adjustment of the slippers to take up vertical wear thereof without necessitating their removal from the recesses.

1,428,896. LAWN-EDGE TRIMMER. WILLIAM LENEHAN, Denver, Colo. Filed July 9, 1921. Serial No. 482,412. 3 Claims. (Cl. 97—28.)



2. In a lawn edge trimmer, the combination with a frame having loops formed in its sides, bearings in the loops, of an axle engaged in the bearings, bolts passable through the loops, bearings and axle, a wheel rotatably engaged on the axle, a moldboard having angularly disposed cutting edges and detachably secured upon opposite sides of the loops, and a handle secured to the frame.

1,428,697. OPHTHALMIC MOUNTING. THOMAS LEYTHAM, Rochester, N. Y., assignor to Shur-on Optical Co., Inc., Rochester, N. Y., a Corporation of New York. Filed Mar. 31, 1921. Serial No. 457,232. 3 Claims. (Cl. 88—43.)

1. An ophthalmic mounting comprising a pair of continuous lens rings, formed of a cellulose composition, a curved bridge formed of a cellulose composition and extending from one ring to the other, and a reinforcing piece entirely surrounded by said bridge and curved to conform



substantially to the curve of the bridge, so as to maintain the bridge in its curved form when the lens rings are heated for the purpose of inserting the lenses therein.

1,428,698. SIGN AND THE LIKE. GUSTAVE C. LOEWENTHAL, New York, N. Y. Filed May 18, 1921. Serial No. 470,515. 4 Claims. (Cl. 91—67.9.)

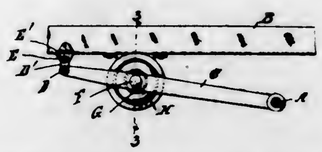


1. The method of rendering paper translucent, consisting in applying to the paper a solution consisting of about seventy five per cent linseed oil and about twenty-five per cent of turpentine, paraffin and a drier in approximate equal proportions.

3. A sign consisting of a body of translucent paper having advertising matter embossed thereupon and rendered less inflammable by the action of cellulose acetate.

4. A sign or the like, comprising a sheet of paper having a translucent embossed portion and a different colored translucent body portion.

1,428,699. SPRING SUPPORT FOR VEHICLES. HILDING LÜBECK, Herserud, Sweden. Filed Nov. 20, 1919. Serial No. 339,289. 1 Claim. (Cl. 267—15.)

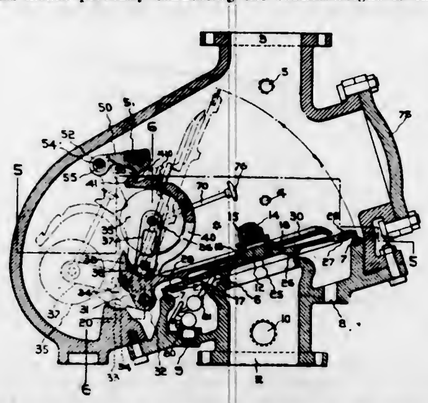


In a spring support for vehicles, the combination with the vehicle frame and a wheel axle, of a lever, pivotally connected with said frame and said axle, so as to allow the lever not only to swing with respect to said frame, but also to move lengthwise thereof, a ring carried by said lever between said axle and the point of oscillation of the lever, another ring carried by said frame and arranged substantially concentric with said first named ring, and a pneumatic tire interposed between asid rings.

1,428,700. DRY-PIPE VALVE. JOHN R. MEADOWCROFT, Montreal, Quebec, Canada. Filed Feb. 5, 1919. Serial No. 275,226. 17 Claims. (Cl. 169—22.)

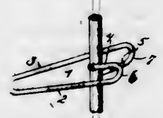
1. In a dry pipe valve, the combination with a pivoted arm for carrying the valve and the valve carried thereby,

of a counterweight movable relatively to the carrying arm, and means pivotally connecting the counterweight to the



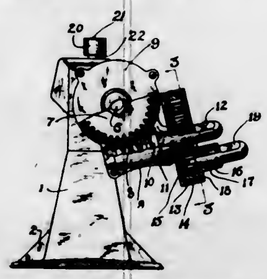
said carrying means whereby the opening of the valve is accelerated.

1,428,701. WIRE LOOP. OTTO A. MICHELIS, Detroit, Mich. Filed Apr. 13, 1921. Serial No. 461,143. 2 Claims. (Cl. 5—29.)



1. The combination in a spring structure comprising a plurality of coiled springs and ties therefor each consisting of a wire loop the arms of which terminate in oppositely disposed hooks disposed in superimposed relation with the bight of one hook projecting slightly beyond the other, facilitating the engagement of the loops with adjacent springs, one coil normally lying in the closed end of the loop and the other within both of said hooks.

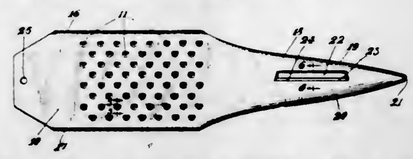
1,428,702. LIFTING JACK. JOHN A. MORRISON, Mansfield, Ohio. Filed Feb. 24, 1921. Serial No. 447,474. 2 Claims. (Cl. 254—97.)



1. A lifting jack provided with a standard containing lifting mechanism, a rotatable shaft provided with a worm engaging the lifting mechanism and having a squared portion, an internal gear fixed upon said shaft, a pinion meshing with said internal gear, a shaft upon which the pinion is fixed, said last named shaft provided with a squared portion and an operating handle provided with a socket interchangeably mountable upon said squared portions.

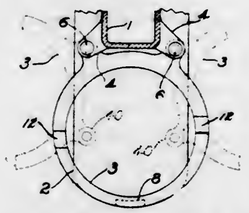
2. A lifting jack provided with a standard containing a sliding rack bar, a pinion engaging the rack bar, a worm gear fixed to the pinion, a rotatable shaft provided with a worm engaging the worm gear and having a squared portion, an internal gear fixed upon said shaft, a pinion meshing with said internal gear, a shaft upon which the pinion is fixed, said last named shaft provided with a squared portion and an operating handle provided with a socket interchangeably mountable upon said squared portions.

1,428,703. CULINARY IMPLEMENT. ENGELBERT NICOLUSSI, Glendive, Mont., assignor of one-half to Charles Nicolussi, Chicago, Ill. Filed Mar. 9, 1922. Serial No. 542,359. 3 Claims. (Cl. 146—7.)



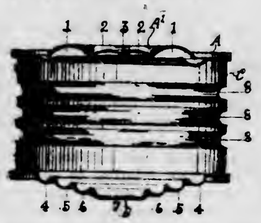
2. A culinary implement comprising a flat sheet of metal having flanged edges, a handle extending therefrom, and a plurality of upstanding projections having openings directed towards one side of said sheet, the mentioned openings being proportioned to produce particles of various magnitude when used as a grater depending upon the depth said projections are entered into the substance operated upon.

1,428,704. MIXING MACHINE. GUNTHER H. PETRI, Boston, Mass. Filed Oct. 12, 1920. Serial No. 416,378. 5 Claims. (Cl. 259—102.)



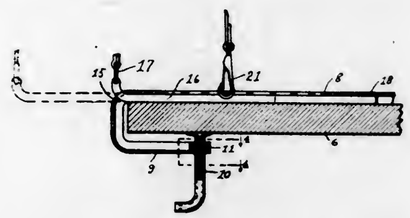
1. In mechanism for holding material and operating thereon, a pedestal for the operating mechanism, combined with a receptacle holder having a plurality of pivots supported on the pedestal on different axes, and a receptacle supported by said holder adapted to hold the material on which said mechanism operates; each of said pivots being removable whereby the holder and receptacle may be swung about another of them.

1,428,705. CAN FOR PRESERVES. JULIUS A. PICKENS, Easley, S. C. Filed Jan. 29, 1920. Serial No. 354,977. 3 Claims. (Cl. 220—72.)



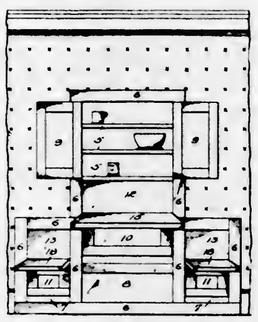
1. A packing can having a top constructed with a steam-cavity, said steam-cavity surrounding and converging into a gas-cavity and said gas-cavity opening into a vent, substantially as described.

1,428,706. LUGGAGE CARRIER. ROBERT H. PRICHARD, Los Angeles, Calif. Filed Mar. 3, 1919. Serial No. 280,502. 2 Claims. (Cl. 224—29.)



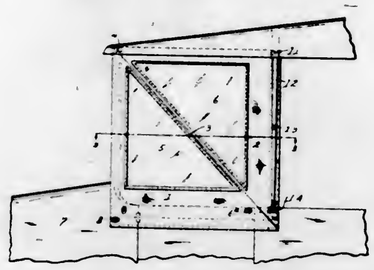
2. In a luggage carrier a base bar composed of U-shaped channel iron having one end bent around and under the other portion to lie parallel thereto, said end being pierced and adapted to receive between it and the other portion the edge of the running board of an automobile; a nut in said pierced end held positioned therein by deforming portions of the walls of said end; and a screw in threaded engagement with said nut and passing through the hole in said end.

1,428,707. IN-A-WALL FURNITURE. JOHN P. FROST, St. Louis, Mo. Filed Jan. 23, 1919. Serial No. 272,760. 1 Claim. (Cl. 45—51.)



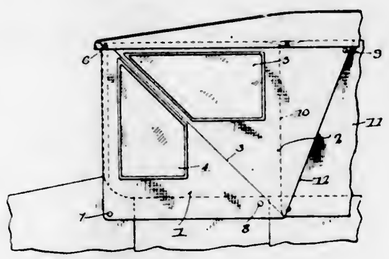
In-a-wall furniture of the class described comprising, in combination, a pair of opposed uprights arranged in spaced relation, a top piece for said uprights, a back piece for said uprights extending from the top piece to a point intermediate the top piece and the bottom edges of said uprights, a front wall for said uprights, a door hingedly connected at its lower edge to said front wall to complete a compartment between the uprights, back piece and front wall, a board member receivable in a vertical position within said compartment, a trunnion extending laterally from each side face of the board member near the rear end thereof and receivable in opposed slotted openings in the uprights which openings extend from a point near the lower edge of the uprights to a point adjacent the lower edge of the back piece, said board member capable of being raised and extended forwardly in a horizontal position with relation to the uprights when the hinged door is moved to its position, said board member when in its extended position resting both upon the lower face of the hinged door and the upper face of the front wall and the upper face of the board member at its rear edge engaging the lower face of the back piece for guiding and retaining the board member in its horizontally extended position.

1,428,708. VEHICLE QUARTER CURTAIN. MAXIMILIAN RAHR, Jr., Manitowoc, Wis. Filed Sept. 20, 1918. Serial No. 254,937. 1 Claim. (Cl. 296—138.)



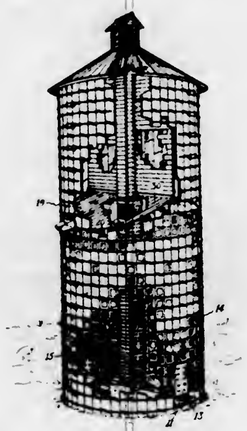
The combination with a vehicle body, door, and canopy, of a set of triangular side curtain members, in hinge connection with each other along upwardly converging lines, and adapted to fold one upon another, button fastening means for detachably supporting the lower member with its lower margin extending below the top of and connected with the door, and with an upwardly extending margin in the vicinity of the axial line of the door hinges, and detachable means for supporting a second member as an extension of the first member,—the hinge connection between said members being located along an oblique line extending upwardly from the swinging corner of the door, the hinge connection between said members terminating substantially in a line with the upper edge of the door, the members being unconnected below the top of the door, whereby one or all of the members of said set of triangular side curtain members may be folded either inwardly or outwardly while the retained portion of the curtain remains taut.

1,428,709. VEHICLE CURTAIN. MAXIMILIAN RAHR, Jr., Manitowoc, Wis. Filed Aug. 26, 1920. Serial No. 406,080. 1 Claim. (Cl. 296—138.)



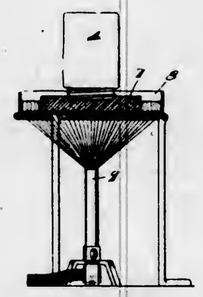
The combination of an automobile having a canopy top, a door, a rear curtain, and a front quarter curtain, said front quarter curtain having a main forward body portion of substantially rectangular contour and having a triangular rear portion unitarily formed therewith and having one of its apices adjacent the bottom corner of the rectangular portion, and a fastening means carried by the upper apex and at the rearmost portion of the curtain, and a cooperating fastening means carried by said rear curtain, at a point a material distance from the forward edge of said rear curtain whereby upon detachment of said fastening means said door may be opened without disturbing any other point of attachment of said quarter curtain.

1,428,710. GRAIN CRIB. GEORGE B. READ, Bloomington, Ill. Filed Oct. 28, 1921. Serial No. 511,204. 8 Claims. (Cl. 72—6.)



1. In a concrete stave grain crib, in combination, a corn crib section formed by sections of super-posed stave members having ventilating openings, a grain bin section mounted thereabove and formed by super-posed sections of solid stave members, a roof for the grain bin section, having a cupola provided with ventilating openings therein, transverse partition members between the corn and grain bin sections, and a vertically disposed stack open at its upper end, and having in its lower portion within the corn crib section ventilating openings.

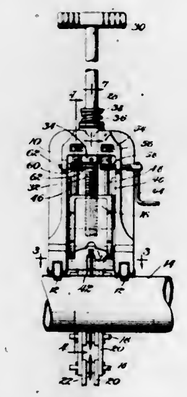
1,428,711. JAR SEAL AND METHOD OF APPLYING THE SAME. BERNARD F. ROEHRIG, Pasadena, Calif. Filed Dec. 14, 1918. Serial No. 266,685. 13 Claims. (Cl. 215—37.)



13. A receptacle having a congealable adhesive mixture of one substance upon the edges of the mouth thereof and a sealing wafer partially composed of a similar substance fused therewith and forming a hermetical closure, substantially as described.

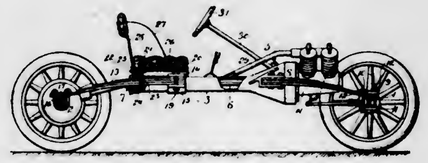
1,428,712. PIPE CUTTER. WALTER J. SANDERS, Chicago, Ill., assignor of one-half to John H. Sanders, Chicago, Ill. Filed Mar. 25, 1922. Serial No. 546,603. 3 Claims. (Cl. 81—189.)

2. In mechanism of the class described, a plurality of supporting wheels in alignment with each other in a plane transverse to the axis of a pipe to be cut and adapted to travel around the circumference of such a pipe, another similar set of wheels parallel thereto, a U-shaped body member having two arms, lying in the plane of the axis of the pipe to be cut, one of which affords journal support for each of said sets of wheels, a crosshead intermediate of said sets of wheels reciprocatable with reference to the body member, means to so reciprocate the crosshead, a chain carrying pipe cutting member, attached to the cross-



head and embracing the pipe to be cut, intermediate of the first sets of wheels, a second crosshead reciprocatable in the U-shaped member located outside the first crosshead adjacent to the pipe to be cut, a pipe cutting instrument on the second crosshead and slow motion means for moving the second crosshead toward or from a pipe to be cut, all of the parts being arranged and disposed as shown and described, for the purposes set forth.

1,428,713. AUTOMOBILE. WILLIAM F. SCHOENHARD, Kansas City, Mo. Filed July 15, 1920. Serial No. 396,566. 4 Claims. (Cl. 180—64.)

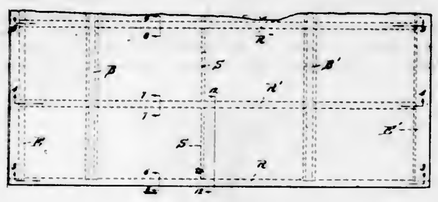


1. In an automobile, the combination with a front axle and a rear axle, of an engine support comprising a longitudinal tube open at its rear end, an engine carried by said tube having an exhaust pipe discharging into said tube, a drive shaft connected with the engine and extending through said tube, and springs supported by said axles and supporting said tube, substantially as set forth.

1,428,714. AEROFOIL. PETER SCHWAMB and PHILIP EBERHARDT, Arlington, Mass. Filed Aug. 9, 1918. Serial No. 249,211. 1 Claim. (Cl. 244—31.)

An aerofoil comprising a framework and a stiff wooden covering extending from the leading edge to the trailing edge on both sides of the framework, the framework comprising longitudinal spars and transverse ribs, the stiff wooden covering being glued to both the spars and the

ribs substantially continuously throughout the length of the spars and ribs respectively, thereby to afford the stiff-



ness usually supplied by trussing and bracing and at the same time serving as the exterior air surface of the aerofoil.

1,428,715. BALL-AND-SOCKET JOINT. IRA D. SHAW, Boston, Mass. Filed Aug. 13, 1921. Serial No. 492,045. 2 Claims. (Cl. 287—90.)



1. In a ball and socket joint, a ball member comprising an attachable shank, a ball carried by it, a socket member comprising an attachable casing having a side opening in it through which the ball is inserted to become socketed within the casing, and bearings oppositely arranged within the casing between which the ball is socketed to turn, a flange inturned from off the end of said casing retaining one of said bearings and a spring within the casing engaging the other of said bearings for holding it in engagement with the ball and the ball in engagement with the bearing retained by the flange as aforesaid.

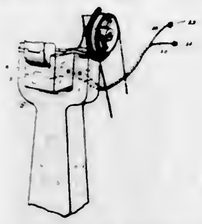
1,428,716. MACHINE FOR PICKLING METAL PLATES AND BLANKS. REUBEN STANLEY SMITH and EDWARD W. BURGESS, Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Feb. 2, 1920. Serial No. 355,727. 39 Claims. (Cl. 266—7.)



1. In an apparatus for pickling metal plates or blanks, a line of vats, in combination with a conveyor provided with depending supports to carry the plates or blanks through the vats, means to feed the plates or blanks to the conveyor, and means to deliver the plates at the end of their travel.

1,428,717. HEATER FOR STITCHING MACHINES. JOSEPH STANGL, West Bend, Wis. Filed Oct. 22, 1919. Serial No. 332,464. 3 Claims. (Cl. 219—43.)

1. A heating unit comprising a container, a base member disposed in said container and having large capacity for retaining heat, spaced substantially parallel pockets in said member, a heating element disposed in each pocket, and means independently connecting the heating elements



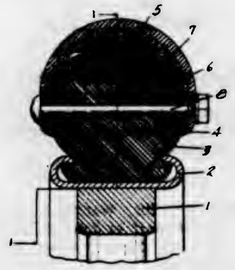
with a source of power, whereby the heating elements may be singly or jointly employed to heat said member.

1,428,718. RADIATOR. PAUL A. STURTEVANT, Chicago, Ill. Filed Mar. 26, 1921. Serial No. 455,963. 5 Claims. (Cl. 257—125.)



1. A radiator for motor vehicles, comprising a core, a hollow outer casing surrounding said core and divided into separable sections open along the inside thereof, said core having water circulating tubes and a head sheet surrounding the core, said head sheet extending across and closing the opening along the inside of said sections, said tubes secured to said head sheet and opening into said outer casing through the head sheet, means for holding the marginal portions of said head sheet against said sections on opposite sides of the opening therein, and means for releasably clamping said sections together about said core.

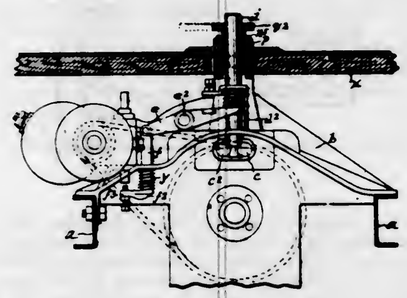
1,428,719. CUSHION TIRE. WASHINGTON D. TELLER, Wasepi, Mich. Filed Apr. 29, 1922. Serial No. 557,282. 4 Claims. (Cl. 152—1.)



1. In a tire, the combination with a cushion body member provided with rim engaging means comprising a fabric

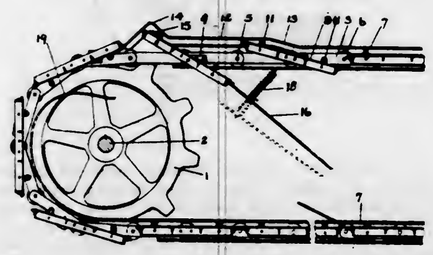
wall having resilient cushion means therein, a tread portion of relatively soft rubber seated on the periphery of said body member, an outer casing member embracing said body member and resilient tread portion with its sides lapping the sides of said body member and secured thereto at substantially spaced intervals by cross bolts disposed through said outer casing and body member, substantially as described.

1,428,720. AUTOMOBILE LOCK. HORACE T. THOMAS, Lansing, Mich. Filed Aug. 27, 1919. Serial No. 320,105. 11 Claims. (Cl. 74—58.)



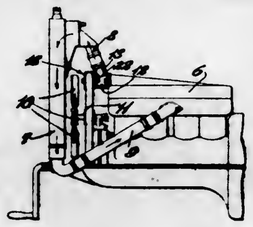
1. The combination of a change speed gearing, a part adapted to lock said gearing, a starting motor, said part being adapted to set said motor into operation toward one end of its travel, an automatic means for locking said part in a position in which the change speed gearing is locked and the starting motor is inoperative, and an adjustable means for preventing the operation of the means for locking said part.

1,428,721. CONVEYER. EARLE A. TOWNE, Albion, Mich., assignor to Union Steel Products Co., Ltd., Albion, Mich. Filed Jan. 16, 1922. Serial No. 529,688. 11 Claims. (Cl. 198—158.)



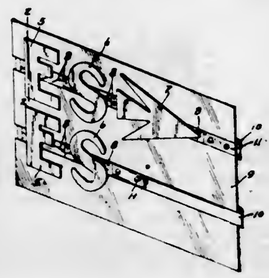
10. In a structure of the class described, the combination of a horizontal conveyer way and coacting endless conveyer chain, carriers journaled on said conveyer chain, guide rollers on said carriers coacting with said way to maintain the carriers in load carrying position, a discharging and reversing switch way opening into the said conveyer way to receive the guide roller of each carrier, and a slide disposed below the upper reach of the conveyer and discharging to the lower reach thereof, the upper ends of said slide being spring supported and positioned to be engaged by the rear ends of the carriers as they are tilted to discharge the load.

1,428,722. WATER CIRCULATOR FOR WATER-COOLED ENGINES. FRANK BENJAMIN UPTON and WILLIAM CLARK KIRK, Chattanooga, Tenn., assignors to Patten Manufacturing Company, Chattanooga, Tenn., a Corporation of Tennessee. Filed Jan. 17, 1918. Serial No. 212,200. Renewed Nov. 28, 1921. Serial No. 518,427. 3 Claims. (Cl. 123—175.)



1. In combination with the water cooling system of an internal combustion engine, a circulating unit detachably secured to the water outlet of said engine, said unit comprising a hollow elbow-shaped shell having a water chamber therein and inlet and outlet openings for said chamber, a bearing member secured to said shell, a shaft carried by said bearing member and extending into the wall of said chamber, a screw propeller secured to the end of the shaft within the chamber, a driving pulley secured to the other end of said shaft, means for lubricating the shaft bearing, a stuffing box formed by said bearing member and the shell, packing within said box, said stuffing box being adjacent to said water chamber whereby water is prevented from entering said bearing and washing away the oil therefrom.

1,428,723. SIGN WITH INTERCHANGEABLE CHARACTERS. ANDREW A. URNESS, Alexandria, Minn. Filed Dec. 6, 1919. Serial No. 343,031. 2 Claims. (Cl. 40—140.)

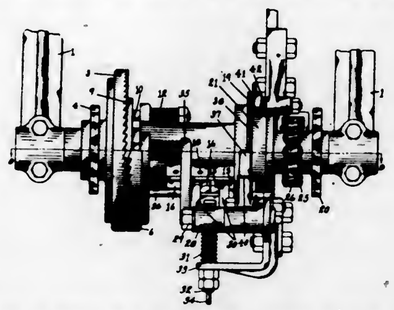


1. A sign comprising a supporting back having a dovetailed channel therein and a plurality of characters each having a dove tailed strip of sheet metal secured transversely across the back thereof, the top and bottom edges of the strip being free and resilient and normally spread wider than the channel in the sign, whereby the said edges can be pressed together for insertion into said channel, said strip holding the characters in position by the friction thereof with the sides of said channel.

1,428,724. INTERMITTENT DRIVING MECHANISM. BERT L. VAN ORMAN, Detroit, Mich., assignor to L. A. Young Industries, Inc., Detroit, Mich. Filed May 15, 1922. Serial No. 561,086. 8 Claims. (Cl. 74—54.)

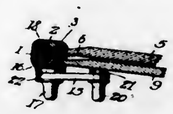
1. In a structure of the class described, the combination with a supporting shaft, a driving clutch member rota-

tably mounted thereon, a driven clutch member provided with an elongated hub having a longitudinal groove therein, a sleeve on which said driven clutch member is mounted provided with a disk-like flange disposed between said clutch members, pins carried by said flange disposed through said driven clutch member, clutch member engaging springs carried by said pins, a driving dog reciprocating in said groove in said driven clutch member, a clutch releasing lug secured in said groove, a spring



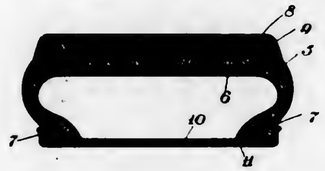
acting to engage said driving dog, a driven member provided with a disk notched to receive said dog, said disk being connected to said driven member by a shear pin, means for returning said driven member to its initial position, a stop disk on said driven clutch member, a return stop pawl coacting therewith, a friction brake member coacting with said stop disk, and a releasing lever with which said driven clutch member and said driving dog are engaged by the rotation of the driven clutch member to release the clutch and said dog.

1,428,725. WINDOW-SASH FASTENER. EDWARD H. WALTERS, Chicago, Ill., assignor to Lite Products Corporation, Chicago, Ill., a Corporation of Delaware. Filed Sept. 14, 1921. Serial No. 500,473. 5 Claims. (Cl. 292—202.)



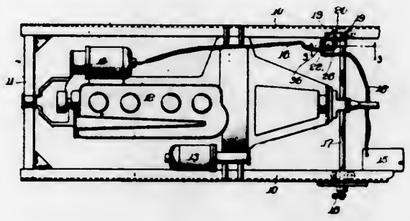
1. A window having a frame, a pane slidable therein, an arm pivoted to the frame upon an axis oblique to the plane of the pane, whereby rotation about its axis will bring the free end of the arm toward and from the surface of the pane, the plane of rotation of the arm being near enough to the plane of the pane to cause the free end of the arm to exert pressure upon the pane substantially normal to its surface when said arm is rotated to acting position.

1,428,726. PNEUMATIC TIRE. NATHANIEL G. WARTH, Gallipolis, Ohio. Filed Dec. 10, 1919. Serial No. 343,837. 2 Claims. (Cl. 152—18.)



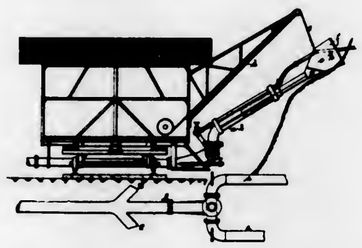
1. A pneumatic tire comprising a casing provided with a carcass, said casing being normally of oblate form in cross section, said casing having incorporated with its carcass at the tread side a band that is inextensible and is straight and rigid in cross section and of substantially the width of the casing, said band adapted to prevent expansion of the casing from its normal oblate form upon inflation.

1,428,727. PROTECTIVE DEVICE FOR AUTOMOBILE BATTERIES AND GENERATORS. FRED C. WASSMAN, Melrose Park, and EARL KENDALL, Maywood, Ill. Filed Sept. 17, 1920. Serial No. 411,003. 2 Claims. (Cl. 171—313.)



1. The combination with the frame, controller shaft, hand brake lever, generator and battery of an automobile, and a circuit line connecting said generator and battery, of a switch in said circuit line mounted on said frame, a spring urging said switch in one direction, and a striker on said controller shaft operating to move said switch in the opposite direction when said brake lever is swung in one direction.

1,428,728. FLUSHING APPARATUS. WILHELM WEBER, Wiesbaden, Germany, assignor to the Firm Gewerkschaft Hansbach II, Wiesbaden, Germany. Filed Jan. 22, 1921. Serial No. 439,272. 2 Claims. (Cl. 263—3.)

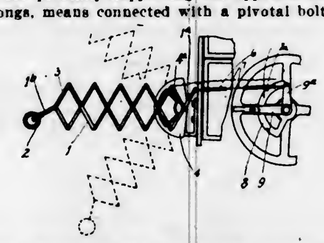


1. An improved locomotive flushing apparatus for the obtention of flushing material from minings comprising in combination, a frame mounted on wheels, an electrically operated slewing crane supported by said frame, a flushing conduit under said frame, a U-shaped connecting pipe at the head of said flushing conduit, telescopic pipes in each arm of said connecting piece, a funnel shaped head at the upper end of each telescopic pipe suspended to said slewing crane, a water pipe upon each of said telescopic arms and a flushing nozzle of said water pipe in said flushing head.

1,428,729. VEHICLE DIRECTION INDICATOR. BERNARD WEINSTEIN, Los Angeles, Calif. Filed Feb. 21, 1921. Serial No. 446,740. 2 Claims. (Cl. 116—40.)

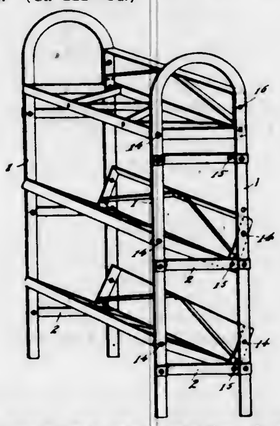
1. A device of the class described, including a lazy tongs, adapted to be extended, raised and lowered, a signal monuted on the extended end of said lazy tongs,

means for pivotally supporting the opposite end of said lazy tongs, means connected with a pivotal bolt connect-



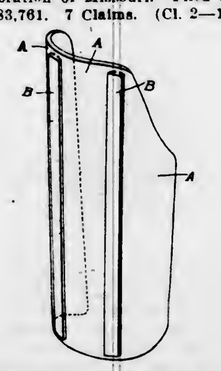
ing two members of said lazy tongs intermediate their ends for controlling the radial and extending movement of said lazy tongs.

1,428,730. DISPLAY RACK. EDWARD B. WESTON, Dayton, Ohio. Filed Apr. 22, 1922. Serial No. 556,070. 5 Claims. (Cl. 211—14.)



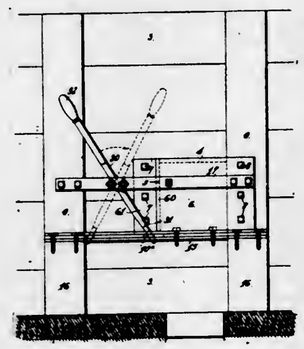
2. In a display rack the combination of metallic end standards, with open metallic shelves to be secured in said standards, said shelves each comprising a main shelf and a rear section, with means for pivoting the two sections together, and means for locking the sections in angular relation.

1,428,731. THIGH GUARD. WILLIAM P. WHITLEY, St. Louis, Mo., assignor to Rawlings Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed July 11, 1921. Serial No. 483,761. 7 Claims. (Cl. 2—190.)



1. A thigh guard composed of a number of stiff sections hinged together, and stiff protecting devices separate and distinct from said sections arranged at the front side of the guard and extending longitudinally of the joints between said sections for preventing a sharp object from penetrating or passing through any of said joints.

1,428,732. GATE VALVE FOR SAND AND GRAVEL DUMPS. WILLIAM M. WILLIAMS, Reno, Nev., assignor of one-half to William W. Allington, Reno, Nev. Filed Aug. 2, 1921. Serial No. 489,336. 2 Claims. (Cl. 193—45.)



1. In an offtake for sand and gravel dumps and the like, the combination with a retaining wall along the bottom of the dump, the said wall having an outlet at the bottom of the pump through which the material from the dump is discharged by gravity; of a housing that constitutes a chamber into which the material as it gravitates through the retaining wall outlet is received, a gathering conduit below the receiving chamber, the said chamber having a discharging opening in the bottom thereof through which the material passes into the conduit, the said opening being of less area than the opening in the retaining wall.

1,428,733. APPARATUS FOR MOLDING COMPOUND. LYNDON F. WILSON, Chicago, Ill. Filed Aug. 29, 1921. Serial No. 496,227. 5 Claims. (Cl. 18—39.)

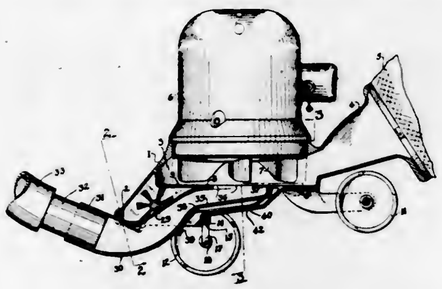


1. An apparatus for molding compound, comprising a plurality of supporting members, a series of angle bars disposed between said members in parallel contiguous relation with their apices extending upwardly to form a corrugated bed, and means for holding said bars against displacement.

1,428,734. VACUUM CLEANER. WILLIAM J. WISE and THOMAS O. ADAMS, New Philadelphia, Ohio, assignors to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio, a Corporation of Ohio. Filed June 3, 1921. Serial No. 474,672. 9 Claims. (Cl. 15—9.)

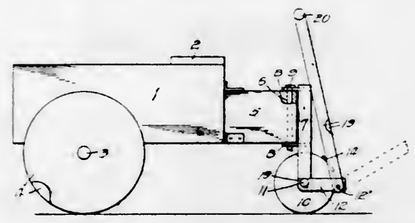
1. In a vacuum cleaner including a case containing a fan chamber and a nozzle having, an inlet mouth, a tubu-

lar attachment arranged to be inserted through said inlet mouth and nozzle and into the fan chamber and adapted



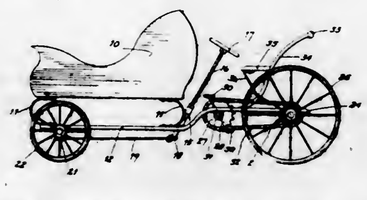
to be connected to a hose and spring means upon the attachment for engagement with the lower wall of the casing.

1,428,735. COASTER VEHICLE. THEODOR WOEHR, St. Louis, Mo. Filed June 18, 1921. Serial No. 478,520. 1 Claim. (Cl. 280—88.)



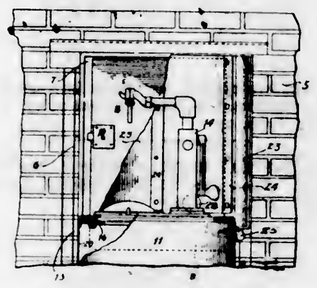
In a vehicle steering mechanism comprising in combination with a body, a forked member pivotally connected to the forward end of said body, an axle supported by said forked member, a steering wheel rotatably supported by said axle, a pair of arms fixed to said axle and directed forward therefrom, a tongue pivotally connected to said arms in advance of the steering wheel and a brake shoe fixed to said tongue and movable thereby into contact with the forward periphery of the steering wheel for controlling the rolling movement of said wheel.

1,428,736. PERAMBULATOR. FRANK WOJCICKI, Bayonne, N. J. Filed Nov. 3, 1921. Serial No. 512,421. 1 Claim. (Cl. 208—45.)



A vehicle comprising a substantially rectangular frame, a perambulator body mounted at the front, a pair of driving wheels at the rear, a pair of pivoted axles at the front having wheels thereon, means for steering said front wheels, means for manually propelling the vehicle from the rear, a cranked shaft journalled in the side elements of said frame, a seat adjacent said shaft, pedals on the cranks of said shaft, and driving connections between said shaft and said rear wheels, said connections being closely adjacent one of said side frame members.

1,428,737. WEATHER-PROTECTED OIL-DISPENSING APPARATUS. ANDREW D. WYCKOFF, Oak Park, Ill. Filed Apr. 11, 1921. Serial No. 460,375. 8 Claims. (Cl. 221—73.)



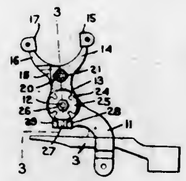
1. Weather protected liquid dispensing apparatus comprising, a tank, liquid dispensing apparatus rotatively mounted thereon and a windshield partly surrounding said liquid dispensing apparatus and mounted to rotate therewith.

1,428,738. MUTING DEVICE FOR TUNING PIANOS. MAXIMILLIAN R. YOUNGMAN, San Diego, Calif. Filed Dec. 23, 1921. Serial No. 524,526. 5 Claims. (Cl. 84—458.)



1. A muting device for tuning musical string instruments, including a plurality of hollow mute members made of a resilient material adapted to be inserted between and securely held in place by strings variously spaced, and a resilient elastic band connecting and made an integral portion of said mute members.

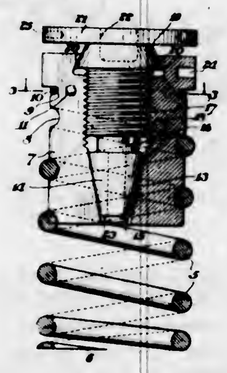
1,428,739. PICKER-STICK CHECK FOR LOOMS. HENRY W. YOUNGQUIST, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 17, 1921. Serial No. 478,233. 2 Claims. (Cl. 139—22.)



1. In a picker stick mechanism comprising a picker stick having a rocker shoe, a rocker shoe stand and means for actuating said picker stick, a picker stick check comprising a rigid arm, pivotally mounted on said rocker stand, having a member positioned in the path of said picker stick to engage one side thereof, a complementary arm adjustably mounted on said pivoted arm at a distance above its pivot and having a member positioned to engage the opposite side of said picker stick,

said arms being so positioned as to engage the picker stick in advance of the limits of its inward and outward movements and frictional means for braking the movement of said picker stick check operable gradually to arrest the picker stick.

1,428,740. SPRING. NICHOLAS W. AKIMOFF, Wynnewood, Pa. Filed Oct. 5, 1920. Serial No. 414,730. 13 Claims. (Cl. 267—61.)



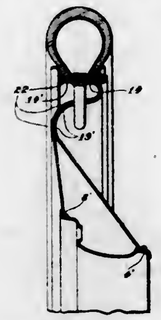
6. A spring device comprising a coil spring, a mandrel upon which one end of said coil spring is mounted having a helical groove complemental to the interior surface of said coil spring, said mandrel comprising a plurality of segmental sections hinged relatively to each other, an expanding device mounted in said mandrel comprising a tapered plug engaging a complemental interior portion of said mandrel, and means for advancing and retracting said tapered plug within said mandrel comprising a spindle in threaded engagement with said mandrel.

1,428,741. DISK WHEEL. ROBERT P. ALLISON, Baltimore, Md. Filed July 23, 1919. Serial No. 312,804. 11 Claims. (Cl. 301—63.)



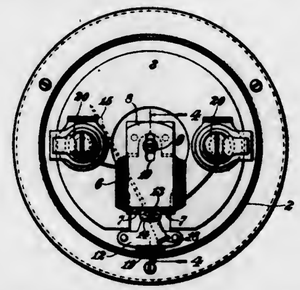
1. In a wheel for road vehicles, having a hub and a demountable sheet metal supporting member therefor, means for demountably connecting the hub to the sheet metal member, consisting of a circularly arranged wedge and a correspondingly shaped channel, circularly arranged to receive the wedge; and means for drawing the wedge into the channel to hold the parts in rigid engagement.

1,428,742. DISK WHEEL. ROBERT P. ALLISON, Richmond, Va. Original application filed Feb. 3, 1919, Serial No. 274,719. Divided and this application filed Oct. 8, 1921. Serial No. 506,226. 13 Claims. (Cl. 301—63.)



3. Means for supporting the hub of a wheel consisting of sheet material having peripheral corrugated portions substantially concentric with the wheel and extending on each side of the central plane of rotation of the wheel, and diverging members extending inward from the corrugations and secured to the hub at points widely spaced in the direction of its axis, the diverging members being inclined at different angles but in the same general direction as related to the plane of rotation of the wheel, one said member having the greatest inclination extending from one end of the hub through the central plane of rotation to the base of the corrugated portion where it meets the other said diverging member, the corrugations extending substantially equal distances on each side of the central plane.

1,428,743. ELECTRICAL MEASURING INSTRUMENT. EDWIN C. BALLMAN, St. Louis, Mo., assignor to Stahl A. Whitten, St. Louis, Mo. Filed July 19, 1918. Serial No. 245,737. 2 Claims. (Cl. 171—95.)

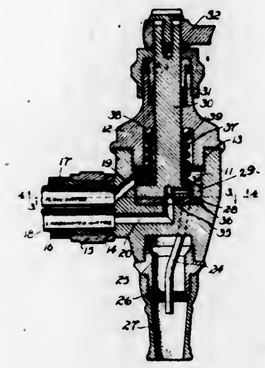


1. An electrical measuring instrument, comprising a base, a permanent horse-shoe magnet on said base, a current-carrying coil adapted to set up a magnetic field at an angle to the field of said permanent magnet, a movable vane adapted to be influenced by said fields, a support for said coil mounted on said base, and a core for said coil, mounted on and guided by said support and adjustable relatively to said vane.

1,428,744. DISPENSING VALVE. CHARLES L. BASTIAN and HJALMAR MATHISEN, Chicago, Ill., assignors to The Bastian-Blessing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 16, 1921. Serial No. 515,471. 9 Claims. (Cl. 225—25.)

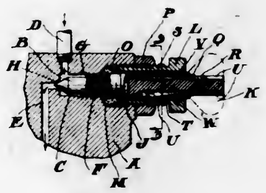
1. In a dispensing valve, the combination of a casing having a chamber therein, a valve member in said chamber,

said casing having an inlet for one liquid above said valve member and an outlet for that liquid below said valve member, said valve member having a transverse passage for connecting said inlet and outlet, said casing having an



inlet and an outlet for another liquid below said valve and said valve member having a return passage on its lower side for establishing communication between the last mentioned inlet and outlet.

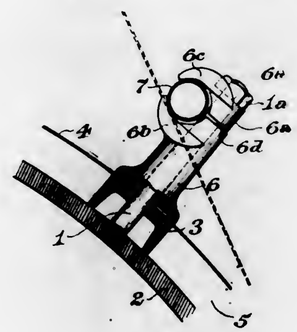
1,428,745. VALVE-SPINDLE-RETAINING DEVICE. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 28, 1921. Serial No. 473,418. 6 Claims. (Cl. 251—163.)



2. A device for retaining a screw threaded valve spindle in its casing, comprising a retainer in the form of a U-shaped spring adapted to pass through the spindle, one spring arm of the retainer being longer than the other to facilitate entry of both arms into the bore of the valve casing as the valve and spindle are inserted, said arms being adapted to bear against the walls of the casing and resist the tendency of the valve spindle to rotate due to vibration.

1,428,746. HANDRAIL COLUMN. JAMES G. BLUNT, Schenectady, N. Y. Filed May 23, 1922. Serial No. 563,167. 5 Claims. (Cl. 105—457.)

1. In a hand rail or pipe supporting column, the combination of a stand, having a hand rail or pipe seat at its top; a cap, adapted to co-operate with said seat in embracing a hand rail or pipe; and means for connecting said stand and cap and securing them in position for service.

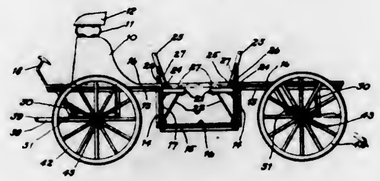


1,428,747. LICENSE TAG FOR MOTOR VEHICLES. BÖRJE H. BÖRJESON, St. Paul, Minn. Filed Nov. 12, 1921. Serial No. 514,615. 6 Claims. (Cl. 283—18.)



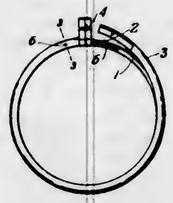
1. A flexible sheet comprising panels arranged end to end and adapted to be separated, one having a license number thereon for the rear of the car, the other panel having a corresponding license number for the front of the car and also having at one end a permanently attached certificate of registration.

1,428,748. FARM WAGON. FRANK BROSOSKY, Haywood, W. Va., assignor of one-half to Andrzej Kubis, Moundsville, W. Va. Filed Jan. 26, 1922. Serial No. 532,022. 2 Claims. (Cl. 296—25.)



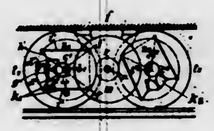
1. A farm wagon comprising a body having an offset frame, a floor on said frame, a lowered platform open at the sides and top, seats in said space above said platform below the level of the body floor, seat backs adapted to fold upon the seats forming a continuous level body floor, and means for maintaining said seat backs in either raised or lowered position.

1,428,749. SHELL FRAME FOR EYEGLASSES. JAMES HOYT BROWN, New York, N. Y. Filed Apr. 9, 1920. Serial No. 372,402. 4 Claims. (Cl. 88—47.)



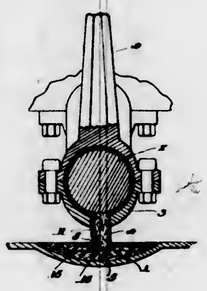
1. A method of securing a covering on an eye-wire, which consists in forming a lug on the wire, forcing a covering thereover, drilling the covering and lug and placing a pin in the drill hole.

1,428,750. SHAFT COUPLING. JACOB BUCHLI, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Filed Mar. 5, 1919. Serial No. 280,828. 4 Claims. (Cl. 105—132.)



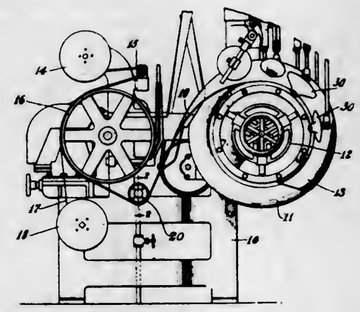
1. A device for coupling two driven shafts of a vehicle and a driving shaft resiliently mounted with respect to said driven shafts on said vehicle including two articulated couplings spaced apart angularly in relation to their respective planes of symmetry, and two members connected by said couplings to their respective shafts and coacting with a common member.

1,428,751. OILING DEVICE. MATT BUAKE, West Duluth, Minn. Filed June 14, 1921. Serial No. 477,559. 2 Claims. (Cl. 184—13.)



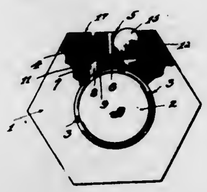
1. In combination with an internal combustion engine, including the casing thereof having its lower portion provided with oil wells, a crank shaft, a piston connecting rod and a connecting rod bearing for the crank shaft which is disposed above the well, of a tubular member let in the bottom of the bearing and communicating with the bore thereof, said member having an outer closed wall provided with a projection forming a scoop, said tube having an inwardly flared opening above but in a line with the scoop, and a flat spring valve in the tube normally closing the opening.

1,428,752. METHOD AND APPARATUS FOR MAKING TIRE CASINGS. JAMES L. BUTLER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 27, 1919. Serial No. 300,022. 5 Claims. (Cl. 154—10.)



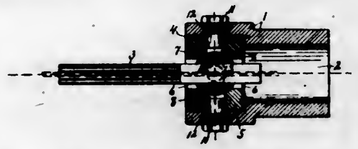
2. In a machine for building pneumatic tire casings, the combination of a rotary tire-forming core, a drum for feeding fabric to said core, adapted to be rotated at a slower peripheral speed than that of the core so that the middle of the fabric is stretched in passing onto the core, a roller over which the fabric passes in flat condition between said drum and core, and means for supplying a hot fluid to the interior of said roller.

1,428,753. NUT LOCK. JOSEPH CAPPEL and CLIFFORD R. EDWARDS, Peoria, Ill. Filed May 2, 1921. Serial No. 466,163. 7 Claims. (Cl. 151—10.)



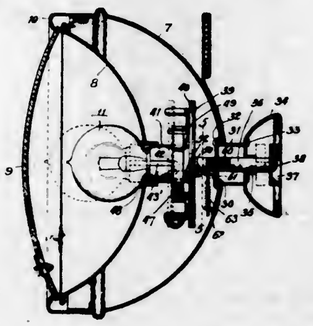
1. In combination, a bolt having a groove extending longitudinally of its threaded portion, and a nut for said threaded portion having a recess in one of its faces part of which extends into the threaded bore, there being a ridge in said nut at substantially the middle of the recess, a latch in the recess adapted to engage the groove of the bolt, a member resting between its ends on said ridge and at one end engaging the latch, and extending at its other end into the part of said recess opposite that having said latch, and a spring constantly tending to force the latch into the groove.

1,428,754. TOOL CHUCK. JAMES CARR, Syracuse, N. Y. Filed Feb. 23, 1921. Serial No. 447,029. 6 Claims. (Cl. 279—18.)



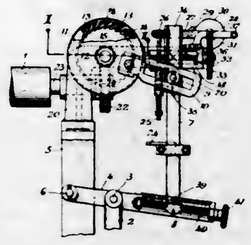
1. In a tool chuck, the combination of a rotary head having a lengthwise opening therethrough, a collar pivotally mounted in the opening and slidable lengthwise of its pivotal axis, and a tool supporting member slidable crosswise of and within the collar.

1,428,755. ELECTRIC LAMP. ARTHUR E. CASE, Marion, Ind., assignor to Delta Electric Company, Marion, Ind., a Corporation of Indiana. Filed Mar. 23, 1918. Serial No. 224,470. 3 Claims. (Cl. 240—44.)



1. In a lamp of the character described, the combination of a casing, a rod containing a member on and projecting rearwardly from the casing, a socket-supporting disk in the casing, an incandescent lamp socket mounted on the disk, a switch for the lamp, and a rod rotatably held in the member and having means to shift the switch.

1,428,756. PLAIN-NET LOOM. EMANUEL CAVIGELLI, St. Margarethen, near Munchwilen, Switzerland, assignor to The Firm Schweiz Gesellschaft für Tullindustrie A.-G., Munchwilen, Switzerland. Filed Mar. 25, 1921. Serial No. 455,513. 6 Claims. (Cl. 96—20.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



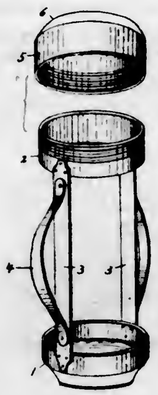
6. In an automatic fabric winding device for plain net looms, a fabric beam, a ratchet wheel secured thereto, a large number of pawls acting thereon only one of which is in full engagement with the said wheel at any one time, a pawl carrier surrounding said wheel, a lever connected to the carrier, a reciprocable rod having sliding connection with the lever, a lever pivoted at one end to a fixed part and adjustably connected with the end of said rod, mechanism to progressively shorten the effective length of the first lever and an adjustable stop on said rod to actuate said mechanism.

1,428,757. BOOKHOLDER. WILLIAM V. COATS, Greenville, Ohio. Filed July 6, 1921. Serial No. 482,825. 3 Claims. (Cl. 45—57.)



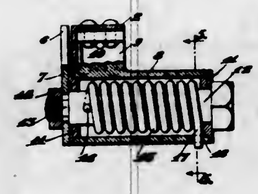
2. A book holder including an inverted U-shaped body member providing a horizontal supporting rail having depending side posts, and substantially U-shaped base members comprising surface engaging portions having front and rear uprights, the rear uprights having a portion of their length coiled about the side posts pivotally connecting the base members thereto and the forward uprights being engageable with the forward edge of a book resting against the supporting rail.

1,428,758. NURSING-BOTTLE-SUPPORTING FRAME. ISA BELLE COWLES, Syracuse, N. Y. Filed Apr. 9, 1921. Serial No. 460,018. 2 Claims. (Cl. 215—11.)



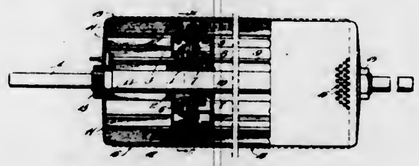
1. A combined bottle-holder and nipple-clamp for nursing bottles comprising a cup-shaped base, a band above and in spaced relation to said base, circumferentially spaced tie-pieces connecting said base and band to hold them in fixed relation one above the other, said band being of sufficient size to permit the bottle to pass endwise therethrough, and a cap-ring adjustable lengthwise of and upon said band and having its upper end contracted for engaging and clamping a nipple to the month of the bottle.

1,428,759. HINGE FOR FOLDING BEDS. HARRISON U. CRAIN, St. Louis, Mo. Filed July 10, 1919. Serial No. 309,947. 3 Claims. (Cl. 16—180.)



3. In an adjustable spring hinge structure for the purpose described, a supporting element, a second supporting element pivotal with respect to said first mentioned element, said first mentioned element having a polygonal aperture therein, a stud having a reduced shouldered portion near one end, of a polygonal shape corresponding to the aperture in said supporting element, the end portion of said stud beyond said polygonal portion thereof being screw-threaded and provided with a retaining nut to engage said supporting element to secure said stud in place, a sleeve rigidly secured to said pivotal supporting element, flanged bearing collars fitted in the opposite end portions of said sleeve and rotatable on said stud, a spring coiled about said stud, one end portion of said spring being inserted through a transverse aperture in said stud and its other end portion being located in an open-ended slot in the adjacent end portion of said sleeve and retained by the bearing collar, and means on the end of said stud for engaging the outer face of said bearing collar to retain the assembled parts in place.

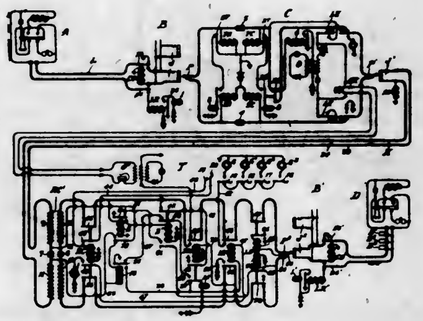
1,428,760. COUCH ROLL. TRUMAN ALONZO CUISH, Jr., Green Bay, Wis. Filed June 24, 1920. Serial No. 391,308. 5 Claims. (Cl. 92—47.)



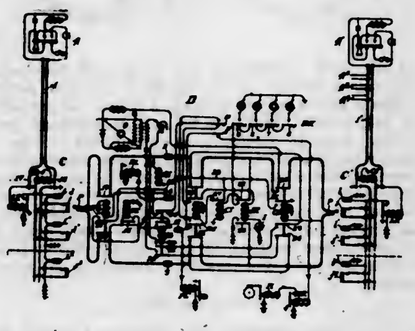
1. In a couch roll, a shaft, an expansible drum mounted on the shaft, an elastic cover for the drum, the ends of the cover being brought over the ends of the drum into close proximity to said shaft, and means for securing the ends of the cover around the shaft.

1,428,761. TRUNK CIRCUIT WITH INSTANTANEOUS DISCONNECT AND RECALL. HIRAM D. CURRIER, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 29, 1914. Serial No. 815,122. 36 Claims. (Cl. 179—49.)

27. A telephone system comprising a telephone line, a cut-off relay for said line, a link circuit for connection with said line, a link relay adapted to be included in circuit with said cut-off relay when said link circuit is connected to said line, and means for substituting a resistance coil for said link circuit relay thereby causing the said cut-off relay to de-energize.



1,428,762. TELEPHONE SYSTEM. HIRAM D. CURRIER, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 29, 1914. Serial No. 815,123. 97 Claims. (Cl. 179—58.)

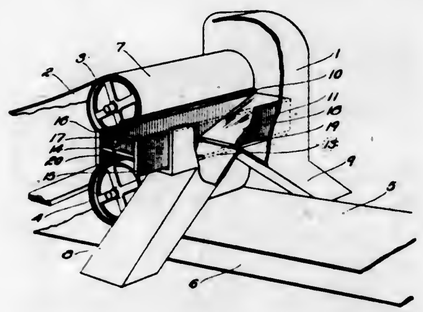


1. In combination with a calling telephone line a plurality of multiple connecting terminals for said line located at a central office switchboard, a cut-off relay for said line, having its coil connected to one of said multiple terminals, operators' link circuits distributed among operators' positions of said switchboard, and means initially operated through a circuit including the coil of said cut-off relay whereby any one of said link circuits may be connected to any one of said multiple line terminals when answering a call to the exclusion of the remaining link circuits that attempt to answer the call.

1,428,763. GRAIN CHUTE. HARRY W. DAVISSON, Kansas City, Mo., assignor of one-half to James C. Patrick, Kansas City, Mo. Filed Feb. 18, 1921. Serial No. 445,947. 2 Claims. (Cl. 193—31.)

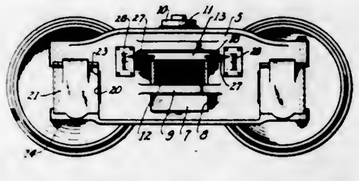
1. A grain delivery belt, a casing into which the delivery belt discharges, delivery chutes in spaced relation in the

bottom of the casing, and a sliding hopper in the casing of greater length than the width of the belt and provided



with a discharge opening adapted to register with either of the delivery chutes when the hopper is slid in either of two directions.

1,428,764. CAR TRUCK. JOSEPH DEMARCO, Kolze, Ill. Filed Oct. 24, 1921. Serial No. 509,797. 1 Claim. (Cl. 105—197.)



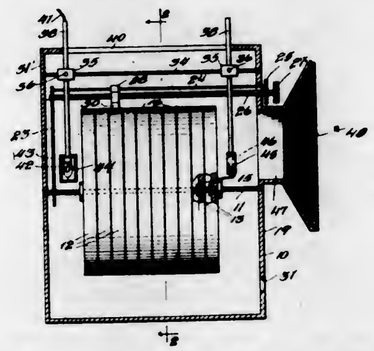
A car truck comprising a pair of integral side frames, each frame having an opening in its central portion, springs mounted in said opening, a bolster-beam connecting said frames, the ends of said bolster-beam being slidably mounted vertically by dovetailing in the respective frames, and a strengthening beam connecting the lower portions of said frames, the ends of said strengthening beam being fixed to the respective frames, a plate mounted in each of the openings of said frame between said springs and the end of said bolster-beam, with a pin projecting from the end of each of said bolster-beams, through said plate and through a portion of one of said springs.

1,428,765. METHOD OF AND APPARATUS FOR GLUING SHEETS EDGE TO EDGE. ARMIN ELMENDORF, Madison, Wis., assignor to Haskelite Manufacturing Corporation, a Corporation of New York. Filed June 1, 1920. Serial No. 385,530. 3 Claims. (Cl. 144—289.)



1. The method of producing sheets out of pieces glued edge to edge, which consists in applying glue to the edges of such pieces to be joined together, forming a stack of layers out of such pieces placed edge to edge, alternating said layers with spacing devices, and then applying sufficient pressure to one edge only of each of said layers in a direction at right angles to the joint therein to move them bodily along the spacers.

1,428,766. EXHIBITING APPARATUS. CHARLES MALCOLM FARBER, Tampa, Fla. Filed Aug. 27, 1919, Serial No. 320,202. Renewed Feb. 7, 1922. Serial No. 535,112. 4 Claims. (Cl. 40—28.)



1. An exhibition apparatus of the character described, comprising a casing, a support shaft arranged therein, a plurality of disks pivoted upon the shaft and having radial openings, a plurality of articles to be exhibited carried by each disk, a screw arranged adjacent their periphery and extending longitudinally of the disks, means to support the screw so that it may be moved circumferentially of the disks, and also turned upon its longitudinal axis, a feed block carried by the screw and having an extension projecting into the radial openings, and a source of light and means of magnification arranged within the casing.

1,428,767. RADIATOR HANGER. JOHN W. FARLEY, Cleveland, Ohio. Filed Mar. 21, 1921. Serial No. 454,033. 2 Claims. (Cl. 248—30.)



1. A bracket of the character described having a vertically disposed section and upper and lower rearwardly extending arms, the end portions of the arms being bent upwardly and then rearwardly and downwardly to form hook elements for engaging elongated transversely extending wall-carried supports and slidably mount the bracket upon the supports whereby the bracket may be adjusted transversely.

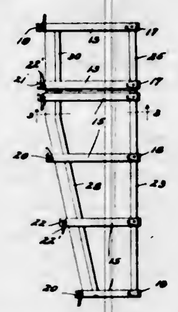
1,428,768. RENEWABLE FUSE. JOHN L. FAY, St. Louis, Mo., assignor of one-half to Ward S. Ireland, St. Louis, Mo. Filed May 16, 1919. Serial No. 297,606. 2 Claims. (Cl. 200—132.)

1. A renewable fuse comprising a fuse element, terminal stems, and fastening means whereby the end portions of the fuse element are detachably secured to said terminal stems, the end margin of each terminal stem being provided with opposing pairs of outturned lips to provide



abutments for limiting the width of the fuse element applicable to the stem, said abutment lips having oppositely disposed side edges adapted to engage the side edges of the fuse element.

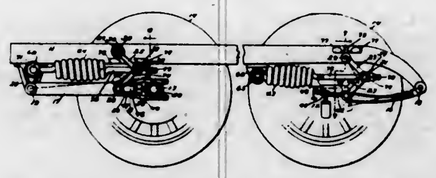
1,428,769. TROUSERS PRESS. CHARLES T. FERGUSON, New York, N. Y. Filed Nov. 15, 1921. Serial No. 515,183. 3 Claims. (Cl. 100—57.)



1. A trousers-press including a base member, an upper press member and means for clamping said press members together, press bars engaging said press members longitudinally of the press, and means for permitting adjustment of said bars with respect to each other for accommodating varying sized garments.

3. A trousers-press including a base member, an upper press member, cross bars on said members, hinges fastened to the ends of said bars along one edge of said members, a press bar on each member fastened under the cross bars longitudinally of the members and adjacent to said hinges, a movable press bar on each member adjustable in its position in longitudinal recesses in the cross bars, and means for clamping the press members together.

1,428,770. RESILIENT SUPPORT FOR VEHICLE BODIES. CHARLES FORTH, Detroit, Mich. Filed Oct. 12, 1920. Serial No. 416,398. 13 Claims. (Cl. 267—20.)



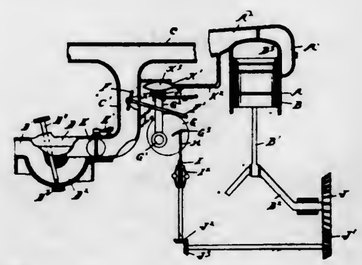
5. In combination with a vehicle body and its front and rear supporting axles, fore and aft extending arms at the forward end of the body on its opposite sides pivoted at their forward ends to said body and pivoted at their rear ends to the front axle, flexible connecting members jointed respectively to the arms and vehicle body, springs anchored to the vehicle body in rear of the front axle and connected respectively with said flexible members, fore and aft extending arms at the rear end of the body on the opposite sides of the same pivoted at their rear ends to the vehicle body and at their forward ends to the rear axle, flexible connecting members pivoted respectively to said arms and to the vehicle body, and springs anchored to the vehicle body in rear of the rear axle and connected with the said flexible members respectively.

1,428,771. ANCHORING MEANS FOR CONCRETE BODIES. JAMES MARTIN FOX, Madison, Wis. Filed Feb. 11, 1922. Serial No. 535,883. 1 Claim. (Cl. 238—370.)



In an anchoring device comprising a concrete body having a wooden plug inserted therein while the concrete is plastic, whereby said plug serves for attaching means for securing articles together.

1,428,772. ENGINE COMPRESSION REGULATOR. PHELPS M. FREER, Detroit, Mich. Filed Jan. 20, 1921. Serial No. 438,629. 4 Claims. (Cl. 123—108.)



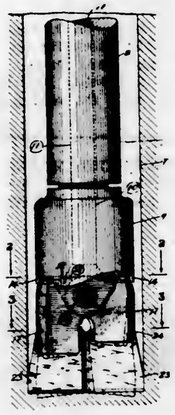
1. In an internal combustion engine, the combination with the engine cylinder, of mechanism associated therewith for automatically increasing the degree of compression in said cylinder in accordance with the increase in the speed of the engine.

1,428,773. [WITHDRAWN.]

1,428,774. FISHTAIL BIT. WILLIAM R. GARDNER, Los Angeles, Calif. Filed Sept. 19, 1921. Serial No. 501,725. 5 Claims. (Cl. 255—76.)

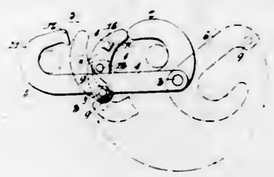
1. A fish-tail bit comprising a hollow shank adapted to be secured to a hollow stem for the circulation of water therethrough, cutters pivotally secured to said

shank so as to expand or contract, said cutters having their planes disposed at an angle to the radius of rota-



tion of the bit so as to move cuttings toward the bore of said shank.

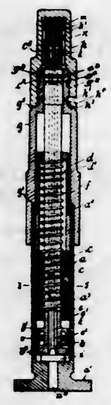
1,428,775. RELEASABLE HOOK. WILLIAM GOETZ, Vancouver, British Columbia, Canada. Filed Sept. 22, 1920. Serial No. 412,078. 4 Claims. (Cl. 294—83.)



1. A releasable hook, comprising in combination a member having provision at one end for connecting it to a line or anchorage and the other end lengthwise divided into two parallel and adjacent sides, a hook pivotally mounted between the sides of the connecting member adjacent the bend of that hook to the shank, a retaining member pivotally mounted on the connecting member and adapted to be moved over that side of the end of the shank which is toward the bend of the hook, and means for securing the retaining member in the retaining position.

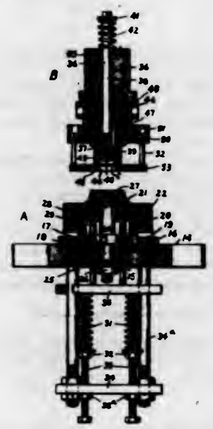
1,428,776. COMBINED PRESSURE GAUGE AND VALVE. JOHN ELPHINSTONE GRAHAM, London, England. Filed Nov. 10, 1920. Serial No. 423,072. 5 Claims. (Cl. 152—11.5.)

5. A combined valve and pressure gauge adapted for use with pneumatic tyres, comprising in combination, a casing, a slidable piston in said casing, a loading plug having a screw threaded engagement with said casing, a recording cap having a screw threaded engagement with the exterior of said casing, a spring between the upper face of said piston and said loading plug, a rod attached to said piston and extending through said loading plug and cap, markings on said rod co-operating with the upper edge of said cap, a longitudinal groove in said rod, a ring threaded on to said rod, a projection on said ring,



engaging said groove, a longitudinal groove on the interior of said casing and a projection on the periphery of the ring engaging the groove in the casing.

1,428,777. DIE STRUCTURE. ERIC J. L. GRANLOW, Schenectady, N. Y. Filed June 3, 1921. Serial No. 474,860. 6 Claims. (Cl. 29—1.)

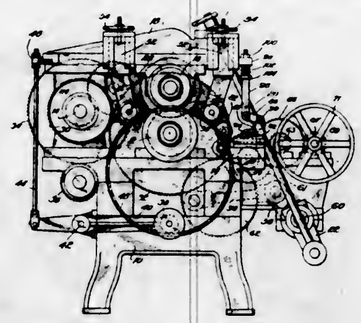


1. In combination, a die structure comprising two spaced concentric die members and a second die structure having two concentric die members one of which has a forming surface and the other a cutting edge located behind said forming surface, said die members co-operating to first strike up a cup-shaped protuberance from a sheet of material and then cut the bottom from the protuberance.

1,428,778. ROLLING MACHINE. CHARLES G. GROTNES, Chicago, Ill. Filed May 24, 1920. Serial No. 383,666. 8 Claims. (Cl. 153—28.)

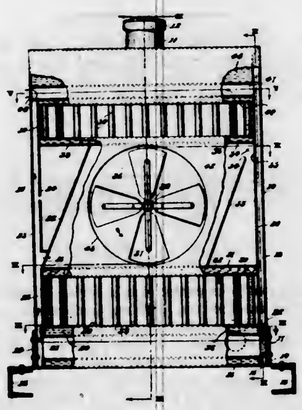
1. In a rolling machine, a pair of rolls shaped to bend a rim and in bending to narrow it, guides engaging the

edges of the rim to hold it in correct alinement, and a connection between said guides and one of said rolls for



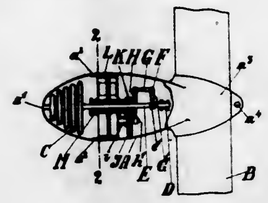
automatically moving said guides to keep them in contact with the edges of the rim as it becomes narrower during the closing of the rolls.

1,428,779. AUTOMOBILE RADIATOR. JOHN HAYDUSEK and MATUS HUSARCIK, Racine, Wis. Filed May 16, 1919, Serial No. 297,472. Renewed June 20, 1921. Serial No. 479,084. 2 Claims. (Cl. 257—126.)



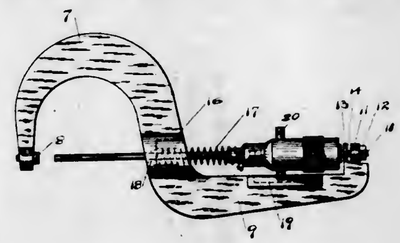
1. A radiator structure comprising a casing having inner walls spaced from the opposite ends thereof forming upright air spaces, upper and lower tubular members communicating with the atmosphere at their relatively opposite ends with their other ends communicating with said air spaces at opposite sides of the casing, the casing having a substantially central fan chamber open at the front and closed at the rear of the radiator, upwardly inclined parallel partitions at opposite sides of the fan chamber, the said partitions and inner walls having openings communicating with said air passages whereby a passage of air is provided through the casing between the opposite ends of said tubular members.

1,428,780. SPEED INDICATOR. PAUL JARAY, Friedrichshafen, Germany, assignor to the Firm Luftschiffbau Zeppelin, Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,573. 3 Claims. (Cl. 73—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



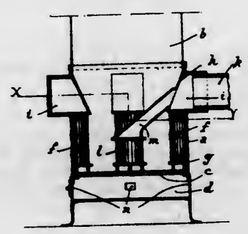
1. In a device of the kind described in combination, a stream lined casing, a Pitot tube in said casing opening towards the front of said casing and an indicating device for the tube within said casing.

1,428,781. MICROMETER ADAPTER. HENRY JOHNSON, Portland, Oreg. Filed Jan. 5, 1921. Serial No. 435,115. 4 Claims. (Cl. 33—167.)



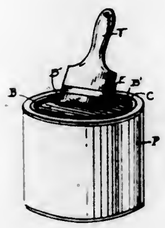
1. A micrometer device comprising a yoke; an arm projecting from said yoke; a contact member upon said arm; and means to mount an inside micrometer caliper upon said arm, one end of said caliper being in contact with said member.

1,428,782. STOVE ADAPTED TO BURN SAWDUST, SHAVINGS, AND LIKE WORKSHOP REFUSE. JULES JOUCLARD, Versailles, France. Filed Aug. 23, 1921. Serial No. 494,538. 4 Claims. (Cl. 126—225.)



1. A stove comprising a cylindrical body, an ash-pit below the latter, a grate above the ash-pit, vertical grated flues for facilitating the combustion, an annular collecting chamber for the burnt gases, adjustable means whereby air required for the combustion is introduced through the ash-pit and means for feeding the stove with fuel.

1,428,783. INDIVIDUAL-PACKAGE DISPLAY CARD. LEO H. JÜNKER, Pelham, N. Y. Filed June 25, 1921. Serial No. 480,369. 10 Claims. (Cl. 40—126.)



10. A display device comprising a base simulating a portion of a package of merchandise, and a tongue projecting upwardly from said base and simulating an article extending into said merchandise.

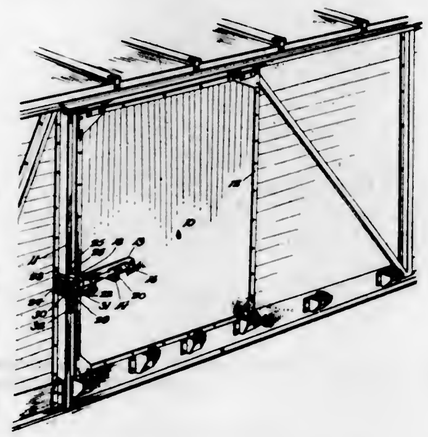
1,428,784. WELL-TOOL GRAB. ARTHUR H. KRUGER, Tulsa, Okla. Filed Nov. 24, 1920. Serial No. 426,233. 1 Claim. (Cl. 294—102.)



In a device of the class described, a casing tapered to form a restriction at its lower end, a cone fitting said tapered end and provided with a serrated bore, said cone being divided into symmetrical portions forming gripping jaws, an upwardly extending resilient yoke connecting oppositely disposed jaws, a similar shorter yoke connecting the other of said jaws, a bridge rigidly secured between the arms of said first yoke, said shorter yoke straddling said bridge, and detachable means for rigidly locking said shorter yoke to said bridge.

1,428,785. COMBINED CAR-DOOR LOCK AND OPENER. ARTHUR T. KUEHNER, Elkridge, Md. Filed Aug. 7, 1920. Serial No. 401,884. 3 Claims. (Cl. 292—207.)

1. The combination with relatively fixed and movable members, of a fixed element carried by one of said members, and a lever pivoted upon the other of said members and provided at a point spaced beyond the pivotal center thereof with an operating foot having a curved heel portion extending in a direction around said element and a diverging toe portion having a cam face rising above the



element to coact therewith throughout the length of said face whereby the lever may be swung for shifting the movable member away from the fixed member, the heel and toe portions forming a crotch therebetween normally abutting said element.

1,428,786. MECHANICAL PROCESS OF WEAVING. EDOUARD LAMBERT, Paris, and RENÉ PERNIN, La Plaine St.-Denis, France. Filed May 21, 1920. Serial No. 383,245. 22 Claims. (Cl. 139—66.)

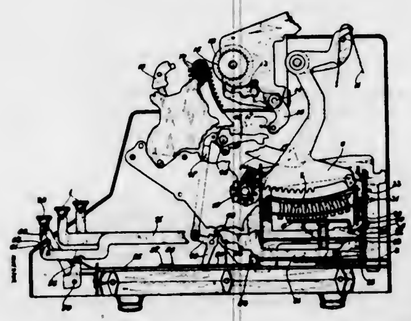


1. In a power loom comprising a series of warp threads, shed forming mechanism, picking mechanism, beating up mechanism and a series of spools of thread, the combination with such elements of a rotary device turning always in the same sense for inserting the threads, and having two series of means for gripping the threads from the spools, means for serving threads and means coacting with said first mentioned means for inserting such severed threads into the fabric during the weaving process.

1,428,787. ADDING MACHINE. HARRY LANDSIEDEL, Norwood, Ohio, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 16, 1921. Serial No. 445,434. 36 Claims. (Cl. 235—60.)

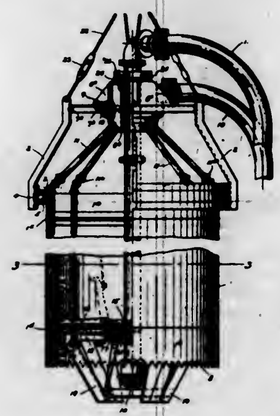
1. In an adding machine, the combination with a differential carriage, and escapement mechanism controlling movement of the carriage from lower to higher denominational order positions in the machine, of a tabulating device operable to disable the escapement mechanism to permit the carriage to be moved free from the control of the escapement mechanism, an element movable by the

tabulating device to engage the carriage, means in connection with said element to limit movement thereof to



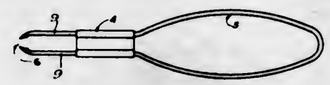
stop movement of the carriage, and means for restoring said element to its starting position after the carriage has been stopped thereby.

1,428,788. EXCAVATING MACHINE OF THE ROTARY TYPE. LEE LARSEN, Tampico, Mex. Filed June 1, 1920. Serial No. 385,848. 3 Claims. (Cl. 262—7.)



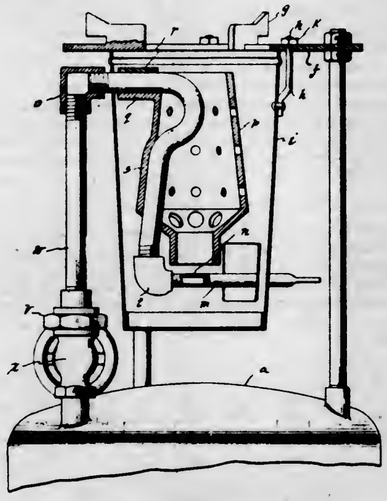
1. An excavating machine of the type described, comprising a cylinder provided with means for dredging its way down into the ground, rotatably connected to means which support said excavating machine, said cylinder being gradually extended by sections to the desired height of the column to be constructed, to form a casing inside which said column can be built up; a combined swivel box support, said support having passageway for water supply; a water supply piping system for loosening the material to be excavated; a suction pipe line for conveying the excavated material, said water and suction systems being combined with said swivel box support; a suction pipe provided with means to separate the excavated material, said suction pipe at the same time serves as bearing and pivot on which said cylinder can turn; a rotatable cutting apparatus connected up to said cylinder and suction pipe with freedom of turning around together with said cylinder on said suction pipe.

1,428,789. CHERRY PITTER. GUY O. LAWSON, Elmira Heights, N. Y. Filed July 27, 1922. Serial No. 577,973. 4 Claims. (Cl.. 146—5.)



1. A fruit pitting implement having substantially parallel laterally spaced jaws provided with upturned reduced extremities.

1,428,790. FIRE POT. FREDERICK L. LINDHORST, Detroit, Mich., assignor to Detroit Torch & Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 16, 1921. Serial No. 515,500. 10 Claims. (Cl. 158—32.)



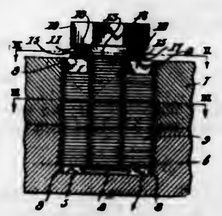
1. In a fire-pot, the combination of a grid, a chimney supported below the grid, a burner shell supported in the chimney, a separate and detachable preliminary heating tube supported in the burner shell, and a burner supported below the burner shell and arranged to project fuel oil into the burner shell.

1,428,791. WELL-CASING-CAPPING DEVICE. JAMES W. LOY, Burnett, Calif. Filed Dec. 21, 1921. Serial No. 523,808. 8 Claims. (Cl. 166—15.)



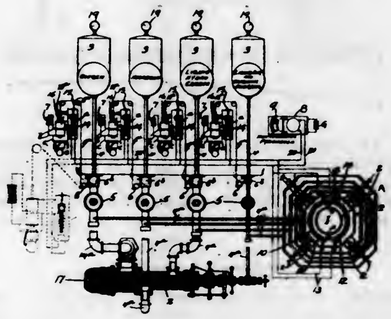
1. In a device of the character referred to, in combination, a pair of clamping elements adapted to be clamped around a casing and having provision therebetween to receive a closure element, and a closure element adapted to be moved to interlocked position between said elements and to cover the space therebetween, whereby to enclose the end of said casing.

1,428,792. JOINT OR CONNECTION. ANTONI LYSIAK, Manchester, Mass. Filed July 11, 1921. Serial No. 483,784. 4 Claims. (Cl. 151—32.)



1. In combination with a pair of members arranged in contiguous relation and having coincident square openings with the walls of the openings formed with segmental threaded portions substantially midway between the corners of the openings, a bolt having a stem of octangular form and provided with a continuous thread formed to be threaded into said openings in engagement with the segmental threaded portions, and substantially triangular members hinged to the outer end of the bolt so as to swing into and out of the corner portions of the adjacent opening whereby said opening is completely closed and accidental rotation of the bolt prevented.

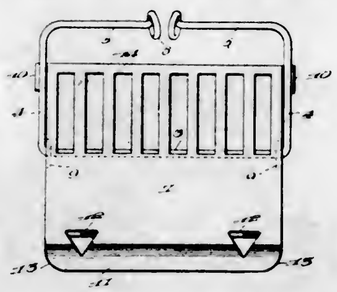
1,428,793. FUEL-CONTROL SYSTEM. FREDERICK L. MCGAHAN, Los Angeles, Calif.; Viola K. Walker, administratrix of said Frederick L. McGahan, deceased, assignor to The Purposed Mind Development Security Association of the World, a Trust Company. Filed Oct. 14, 1918. Serial No. 258,126. 4 Claims. (Cl. 158—36.)



1. The combination of a furnace, a plurality of tanks adapted to feed fluid fuel to said furnace, a pyrometer in said furnace comprising a resistance element, a series of marginal relays connected in parallel with each other and with the said resistance element, a plurality of circuits each comprising a solenoid and normally open contacts, and means for closing said contacts when the temperature of the furnace reaches a predetermined point.

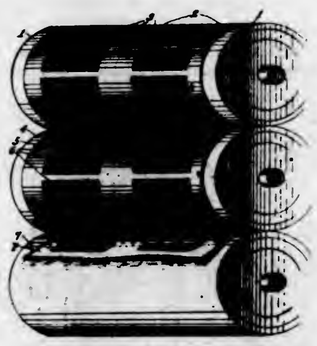
1,428,794. CALF WEANER. BERT W. MYRE and JOHN BROWN, Elkhart, Kans. Filed Sept. 16, 1921. Serial No. 501,161. 3 Claims. (Cl. 119—132.)

1. A calf weaner comprising a mounting yoke having means for engagement with the calf's nose, a shield plate pivoted near its middle on the cross bar of the yoke, and a stop carried by the plate and abutting against the side



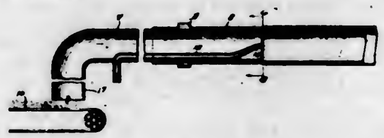
arm of the yoke to limit the swinging movement of the plate.

1,428,795. PRINTING DEVICE. CHARLES P. MEZGER, Glenburnie, Md. Filed Nov. 17, 1921. Serial No. 515,847. 1 Claim. (Cl. 101—217.)



The combination with an offset printing press including a blanket-cylinder and a plate, the latter having thereon a design in relief, of a blanket on said blanket-cylinder, said blanket including a relatively thick impression-transferring portion which has substantially sharp edges defining its outline, this outline being the same size and shape as that of the said design, for the purpose of reproducing an impression which is exactly the size and shape as that of said design and eliminating ink-stains beyond the said impression.

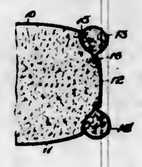
1,428,796. METHOD AND APPARATUS FOR FILLING ROLL EDGES. DAVID MICON, Benton Harbor, Mich. Filed Mar. 15, 1920. Serial No. 366,106. 7 Claims. (Cl. 226—93.)



1. The method of filling tubes of textile material which consists in inserting a filling tube into one end of the tube to be filled and moving the filling tube to substantially the opposite end of the tube to be filled, supplying a pressure fluid to an intermediate portion of the filling tube and in

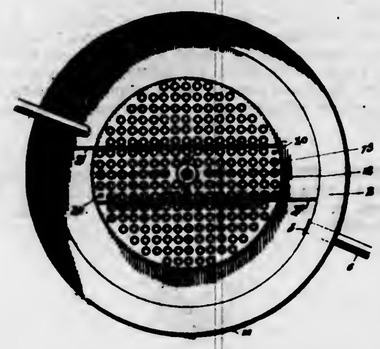
the form of a small jet directed towards the open discharge end of said filling tube, thereby producing a suction through the inlet portion of the filling tube, supplying a filling material to the filling tube in rear of the said jet, and gradually withdrawing the filling tube from the tube to be filled, whereby the filler material will be first drawn into the filling tube and then forced into the tube to be filled.

1,428,797. MATTRESS. DAVID MICON, Benton Harbor, Mich. Filed May 15, 1920. Serial No. 381,591. 8 Claims. (Cl. 5—13.)



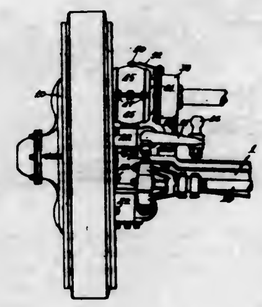
1. A mattress comprising a tick having a top, a bottom and a border, strips of material formed into separate rolls with the edges of each strip stitched together and to an edge of the border, one of said rolls having an intermediate portion stitched to the edge of the top and the other roll having an intermediate portion stitched to the edge of the bottom, and filling for the tick and the rolls.

1,428,798. CLARIFIER. OSCAR M. NELSON, New Orleans, La. Filed Apr. 11, 1919. Serial No. 289,462. 1 Claim. (Cl. 127—9.)



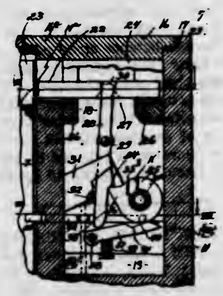
In a clarifier, a pan having an inlet and an outlet at opposite sides thereof, a steam drum in the pan spaced from the walls thereof and having a series of vertical pipes extending through the top and bottom thereof, an inlet and an outlet for the drum oppositely disposed and arranged at the center thereof, a baffle between the inlet and outlet of the drum spaced from the inlet and disposed adjacent thereto to effect lateral movement of the incoming steam against the tubes and toward the drum periphery, vertically disposed baffles one of which extends from a side wall of the pan and between the inlet thereof and the center of the pan and across the drum and spaced from the opposite side wall of the pan and a second of which extends between the outlet of the pan and the center of the pan and from said opposite side wall and across the drum and spaced from the first named side wall of the pan.

1,428,799. UNIVERSAL-JOINT CASING. BOUDEWIJN B. NEUTEBOOM, Detroit, Mich., assignor, by mesne assignments, to Winther Motors, Inc., Kenosha, Wis., a Corporation of Delaware. Filed June 3, 1918, Serial No. 237,962. Renewed May 25, 1922. Serial No. 563,677. 3 Claims. (Cl. 180—43.)



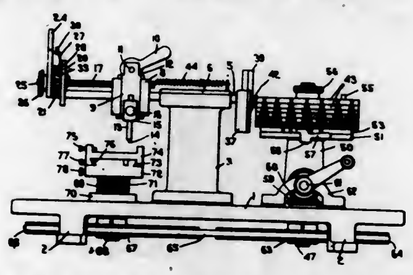
1. In combination with a pair of elements connected by a universal joint, and a structure having parts wherein the respective elements are journaled, the parts being capable of relative movement according to the angular movement between the elements, of a spherical casing enclosing the universal joint and comprising opposed shells that are spaced apart and are secured against rotation to the aforesaid parts of the structure, an intermediate shell embracing the adjacent ends of the former shells and closing the gap therebetween, the intermediate shell having an aperture, means closing said aperture, and a spring finger carried by the structure for cooperation with said means to hold the intermediate shell against rotation.

1,428,800. SAFETY LEVER SWITCH LOCK. JOHN OSCAR NORRIS, Pittsburg, Kans. Filed May 23, 1921. Serial No. 471,823. 4 Claims. (Cl. 90—128.)



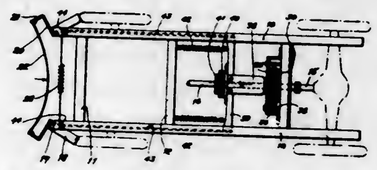
1. A switch lock, comprising a table provided with a pair of notches, a frame pivotally mounted on said table and provided with a channel, a switch lever pivoted to said frame for movement in a vertical plane and adapted to engage one of the notches of the table when in a vertical position and the channel of the frame when in a horizontal position, a casing mounted on said frame, and formed with a recess, a lock mechanism depending from the top of the casing into said recess and having a watertight joint therewith and adapted to lock the switch lever in its vertical position, and means to prevent operation of said lock mechanism when it is in unlocked position and the switch lever is out of its vertical position.

1,428,801. ROSE-ENGINE-TURNING MACHINE. CHARLES B. OULTON, Attleboro, Mass. Filed Apr. 23, 1920, Serial No. 375,975. Renewed Aug. 1, 1922. Serial No. 579,061. 14 Claims. (Cl. 82—14.)



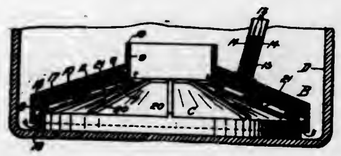
1. A rose engine lathe comprising a horizontal base and a vertical work actuating mandrel, and a vertical rosette shaft arranged in parallelism with said mandrel, means for detachably securing a plurality of rosettes to said rosette shaft, means for rotating said mandrel and said shaft in synchronism, a tool slide, a tool holder mounted thereon, a follower on said slide, adapted to engage a rosette and means for selectively positioning said follower to engage different rosettes and means for yieldingly holding said follower in engagement with the rosette.

1,428,802. AUTO BRAKE. ROKO P. PESUSICH, New York, N. Y. Filed June 18, 1921. Serial No. 478,499. 2 Claims. (Cl. 180—83.)



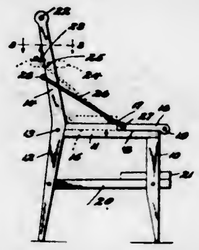
1. In an automobile having a chassis frame and a motor driven shaft transmitting movement to the rear wheels, a pair of opposed bell-cranks pivoted on said frame at the front thereof, a flexible bumper strap connecting between said bell-crank at their front extending members, a spring connecting between their rear members, a brake disc on said shaft, a spring actuated brake lever engageable therewith, a spring retracted sliding detent plate adapted to hold said lever out of engagement, and means slidable in said chassis frame operatively engaged by said bell-cranks for releasing said detent consequent to flexing said strap.

1,428,803. ELECTRICAL DEVICE FOR HEATING LIQUIDS AND THE LIKE. HERBERT JAMES PRESTON, Sydney, New South Wales, Australia. Filed Mar. 19, 1921. Serial No. 453,816. 3 Claims. (Cl. 219—41.)



1. An improved electric heating device comprising in combination a hollow truncated double walled metal cone body, flanges at base and top of said body, hermetically sealed together, a cone shaped mica element situated therein, a high resistance wire wound radially thereon, a metal tube secured to the cone body through which pass the ends of said wire and insulating cones arranged one on each side of the resistance wire within the said cone body substantially as and for the purpose herein set forth.

1,428,804. COMBINATION CHAIR. STEVE PLESEC, San Francisco, Calif. Filed Sept. 15, 1921. Serial No. 500,758. 3 Claims. (Cl. 155—42.)



1. A stepladder chair comprising forward and rear legs, upper and lower connecting braces therefor, a lower step secured to the lower braces between said front legs and projecting forwardly thereof, a two-part seat for the chair carried by said upper braces, hinge conections between the forward part of said seat and said upper rails whereby an interrupter portion is adapted to be formed in the seat for permitting use of said lower step, the hinged seat portion being adapted for rearward swinging movement for use as a second step, opposite sides for the chair back at the upper ends of the rear legs, a combined upper step and back panel pivoted between said sides above the seat and link connections between said panel and the hinged seat section to cause both of the same to assume their chair or stepladder formation at will, the point of connection between the link and hinged seat and panel sections, being respectively, forwardly of the hinged seat section and below the pivot of the panel section for holding the seat and panel sections in locked position when swung rearwardly with said sections being simultaneously shifted by the link connection.

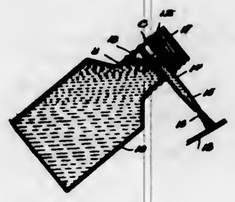
1,428,805. WRENCH. LYMAN GEORGE REYNOLDS and ARTHUR LYTLE HOLMAN, Toronto, Ontario, Canada. Filed Sept. 8, 1921. Serial No. 499,159. 1 Claim. (Cl. 81—59.)



A wrench comprising a handle, a head pivotally connected to the handle and having an arc-shaped lower portion provided with ratchet teeth, a plunger slidable in a longitudinal orifice in the handle and having a toothed upper end, one of the faces of the tooth being bevelled, a spring

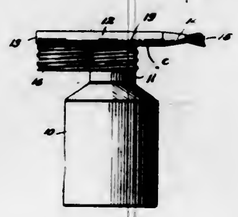
normally holding the toothed upper end of the plunger in engagement with one of the ratchet teeth on the head and a lever pivotally mounted in the handle and the inner end thereof engaging a slot in the plunger.

1,428,806. CLEANING DEVICE. WILLIAM H. ROSE, Jersey City, N. J. Filed May 16, 1921. Serial No. 470,170. 3 Claims. (Cl. 15—133.)



1. In a device for removing spots and stains from cloth, a receptacle having an opening for the passage of fluid, two coaxial caps for said opening rigidly connected together and each being adapted to be secured to the container over said opening, one of said caps being a fluid tight stopper for the opening and the other cap having an aperture therein for the passage of fluid and a delivery tube secured thereto, said tube having a stiff brush at its outer end and being adapted to convey liquid from the receptacle to the brush.

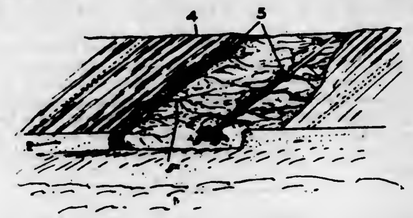
1,428,807. CLEANING DEVICE. WILLIAM H. ROSE, Jersey City, N. J. Filed Apr. 26, 1922. Serial No. 556,663. 2 Claims. (Cl. 15—133.)



1. A cleaning device comprising in combination a receptacle for cleaning fluid having a projecting neck surrounding a discharge opening, a fluid delivery tube closed at one end and having a stiff brush secured thereto at the other end in the path of fluid which is discharged, a cap adapted to detachably fit said projecting neck rigidly connected at its base to the side of said tube near the closed end of said tube projecting laterally therefrom, an opening being provided connecting the interior of the cap and tube, a second similar cap rigidly connected at its base to said tube on the same side as and closely adjacent to said first cap said last mentioned cap being so constructed as to form a liquid tight closure when in place on said neck.

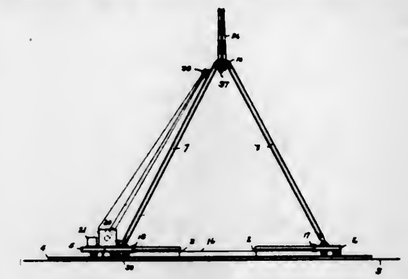
1,428,808. METHOD FOR PREVENTING THE UNDERMINING OF WATER-WASHED BANKS. OLIVER STAUFFER SCHIEFELE, Conestogo, Ontario, Canada. Filed Nov. 10, 1921. Serial No. 514,347. 4 Claims. (Cl. 61—35.)

1. A method for preventing the undermining of water washed banks consisting of first stripping live tree trunks and planting them in a recumbent position parallel with the surface of the bank and at an acute angle to the bank



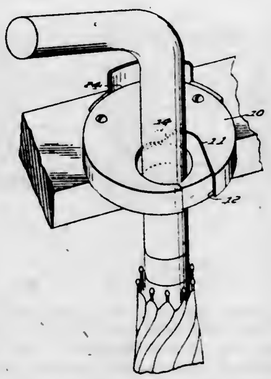
base and then forming a protecting wall in front of the lower portion of such tree trunks.

1,428,809. BOAT CRANE. FRANK R. ZIMMERMAN, Superior, Wis., assignor to Superior Iron Works Company, Superior, Wis., a Corporation of Wisconsin. Filed Aug. 26, 1921. Serial No. 495,690. 4 Claims. (Cl. 212—3.)



1. The combination with a boat of the character described of a foldable, traveling crane carried transverse the deck of the boat, collapsible means for raising and lowering the crane at either end thereof, said crane having pivotally adjustable portions at the ends thereof for extending beyond the sides of the boat, substantially as described.

1,428,810. UMBRELLA LOCK. LEE SHOEMAKER, Portland, Oreg. Filed Apr. 26, 1921. Serial No. 464,708. 4 Claims. (Cl. 70—14.)



4. A device for the purpose described having a casing provided with an elongated opening for the reception of an

umbrella or cane handle and provided with an entrance throat, a disk revolubly mounted in the casing and having a throat registrable with that of the casing and an adjacent jaw for closing the throat of the casing, a spring for yieldingly holding the disk in its normal position, a spring arm carried by the casing, and a cam carried by the disk for engagement with the said arm when the disk is moved to its throat closing position, said casing having a key socket intersected by said spring arm, in combination with an identifying key for reception by said socket, and a key locking tongue carried by the said disk for engagement with a notch in the key when the disk is in its normal position.

1,428,811. COMPOSITION FOR BUILDING BLOCKS. ROBERT C. SHEAFFER, Lancaster, Pa. Filed July 16, 1921. Serial No. 485,397. 2 Claims. (Cl. 106—24.)

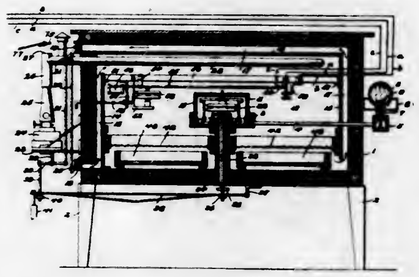
1. A composition for producing building blocks comprising the following ingredients mixed in the proportions named: ashes 100 lbs., cement 60 lbs., and cork 1 lb.

1,428,812. COMBINATION CARBURETOR CHOKER AND SWITCH MECHANISM. MEYER ABRAHAM SIMON, St. Louis, Mo. Filed Dec. 8, 1921. Serial No. 521,072. 8 Claims. (Cl. 123—180.)



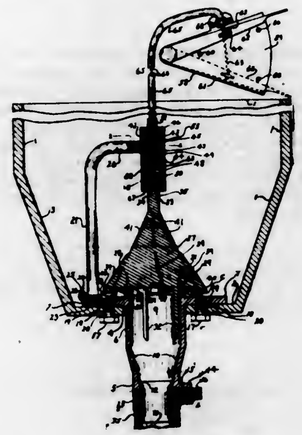
1. The combination with a carburetor choke mechanism of a simultaneously co-operating switch member adapted to control an electrical heating resistor disposed in the path of flow of the fuel in an internal combustion engine.

1,428,813. INCUBATOR. WILLIAM W. SMITH, Hawthorne, Calif. Filed Feb. 17, 1920. Serial No. 359,277. 2 Claims. (Cl. 119—40.)



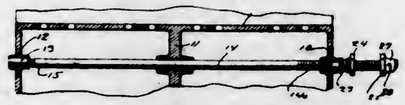
1. An incubator comprising an egg chamber, a partition forming an inlet conduit extending upwardly along one side and subjected to the temperature of the egg chamber, a partition forming an outlet conduit extending upwardly along another side and across the top and subjected to the temperature of the egg chamber, closures at the induction end of the inlet and the eduction end of the outlet conduits, a thermostat within the chamber, means connecting the thermostat and closures whereby the closures are actuated in synchronism, a heating element without the chamber, a heat transmitting element extending from the heating element into the chamber, brackets positioned within the chamber, a second thermostat organization seated upon the removable as an entirety from said brackets, electrical contacts forming a part of said removable thermostat organization, a source of electrical energy, a damper adapted to vary the effective interaction of the heating and heat distributing elements and tending to remain closed, electrically actuated means including some of said contacts which open the damper, means to lock the damper in open position, and electrically-actuated means including others of said contacts to release the lock.

1,428,814. SANDING DEVICE. CHARLES SPENCER, Hamilton, Ontario, Canada. Filed Feb. 28, 1922. Serial No. 539,954. 34 Claims. (Cl. 291—37.)



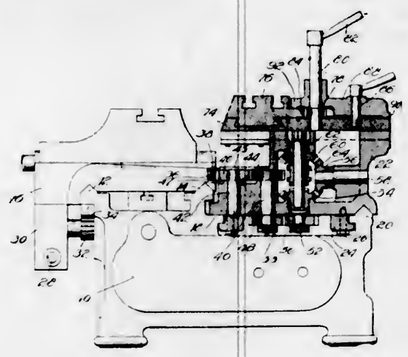
1. In a sanding device, the combination with a sand container having a discharge orifice in the bottom thereof, of a cap associated with said orifice and movably supported in spaced relation thereabove, and means for raising and lowering said cap.

1,428,815. BUSHING REMOVER. RUFUS K. STARKEY, Hennessey, Okla. Filed May 7, 1921. Serial No. 467,606. 3 Claims. (Cl. 29—88.2.)



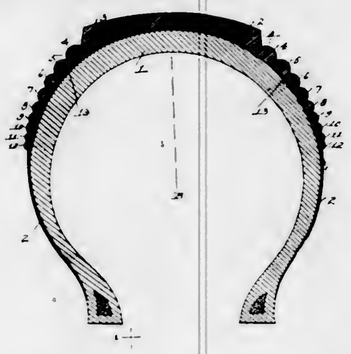
1. A device for removing or replacing bushings in one of a pair of alined openings, comprising a member adapted to slidably engage in one of said openings and forming a guide, a bar slidably directed through said member and maintained thereby in alinement with the other of said openings, said bar being provided upon one end thereof with means whereby it may be rotated and adapted upon the other end thereof for the interchangeable reception of a bushing remover or replacer, and means mounted upon the first named end of the bar for shifting the bar longitudinally through said member.

1,428,816. LATHE. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Rockford Tool Company, Rockford, Ill., a Corporation of Illinois. Filed June 11, 1920. Serial No. 388,211. 16 Claims. (Cl. 82—25.)



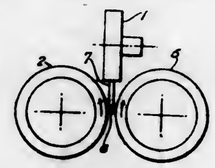
1. In a lathe, in combination, a front tool carriage, a rear tool carriage, a tool slide on said rear tool carriage, a rack extending along said front carriage, and transmission mechanism entirely mounted on and supported by said rear tool carriage and including a gear meshing with said rack, for reciprocating said rear tool slide upon longitudinal sliding movement of said front carriage.

1,428,817. TIRE. HERBERT H. SWAN, Grand Rapids, Mich., assignor to Grand Rapids Tire and Rubber Corporation, Grand Rapids, Mich., a Corporation of Delaware. Filed Sept. 26, 1921. Serial No. 503,146. 2 Claims. (Cl. 152—14.)



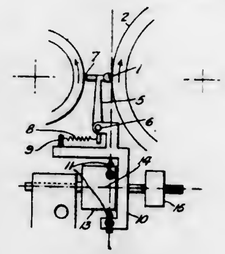
2. A tire having an inner body portion and an outer rubber portion united therewith, the outer portion having a peripheral tread and at the side thereof a plurality of concentric ribs cross-sectionally convexing outward and extending longitudinally in the tire's circumferential direction, each rib extending laterally further from the central plane of the tire which is perpendicular to its rotative axis than, and being of less cross-sectional area than, the rib nearer the tire's periphery, the outer portion having also a base from which the ribs extend integrally therewith, said base beneath the ribs diminishing in thickness from the tread toward the rotative axis of the tire.

1,428,818. PRODUCTION OF SOUND RECORDS. ADRIAN FRANCIS SYKES, New Barnet, England. Filed Nov. 16, 1920. Serial No. 424,420. 5 Claims. (Cl. 274—32.)



1. In means for producing sound records, the combination of a cutting tool adapted to cut two blanks simultaneously and means for actuating the tool in accordance with sound waves.

1,428,819. MANUFACTURE OF SOUND RECORDS. ADRIAN FRANCIS SYKES, New Barnet, England. Filed Nov. 30, 1920. Serial No. 427,373. 8 Claims. (Cl. 274—3.)



1. A method of making a sound record, which consists in producing from a master sound record a record having a sound groove which is a definitely distorted inverse of the groove on the master record.

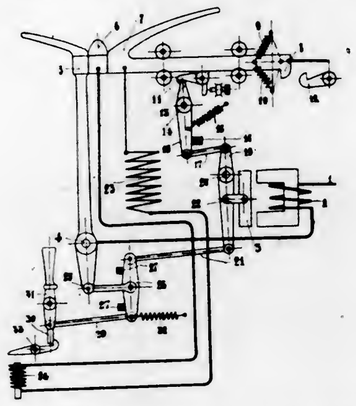
1,428,820. PROCESS FOR THE EXTRACTION OF PROTEIDS AND LACTOSE FROM WHEY. DAVID THOMSON, London, England. Filed Dec. 12, 1921. Serial No. 521,875. 4 Claims. (Cl. 99—11.)

4. A process of separating the protein substances from whey which consists in adding alkali to the whey and removing the resultant precipitate, thereafter subjecting the whey to repetitions of the step of adding alkali and removing the resultant precipitate until the point of neutrality is reached, then adding more alkali to render the whey definitely alkaline to about P_H 10.5, evaporating the final solution and coagulating the remaining proteid, removing the latter, and crystallizing out the lactose substantially as herein described.

1,428,821. EXTRA-QUICK-ACTING CIRCUIT BREAKER. EDOUARD VEDOVELLI, Paris, France, assignor to La Societe la Metallurgique Electrique, Paris, France. Filed Dec. 22, 1920. Serial No. 432,512. 7 Claims. (Cl. 200—109.)

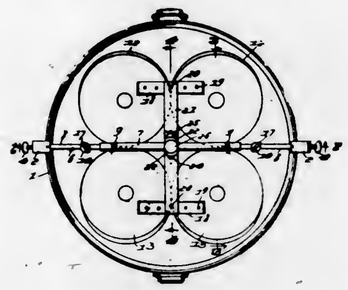
7. In a quick-acting, circuit-breaking mechanism, the combination of a fixed contact; a pair of movable contact elements disposed at opposite sides of and normally engaged with the fixed contact; a circuit wherein both contact elements are included; a magnet in said circuit; spring means tending to move one of the contact elements away from the fixed contact; means for holding said contact element against such movement; means

controlled by the magnet for releasing said holding means to permit the movement of said contact element: a balance beam connected to the other contact element for moving the same away from the fixed element; a



catch normally locking the beam against operation; means for operating said beam when unlocked; and means for automatically releasing the catch after the movement of the first contact element has commenced.

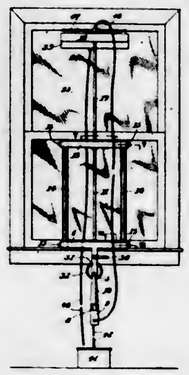
1,428,822. WASHING-MACHINE AGITATOR. ARCHIE L. WALLING, Akron, Ohio. Filed Mar. 13, 1922. Serial No. 543,301. 4 Claims. (Cl. 259—100.)



1. An agitator of the character indicated, a rocking shaft, hangers adjustably depending therefrom, a plurality of suction cups carried by and connected to the hangers, said cups being arranged in pairs, said hangers having arms engaging between and secured to the flanges of said cups, said arms being substantially triangular in cross section, whereby the suction cups may be supported at an acute angle, and means for rocking the shaft and oscillating the suction cups.

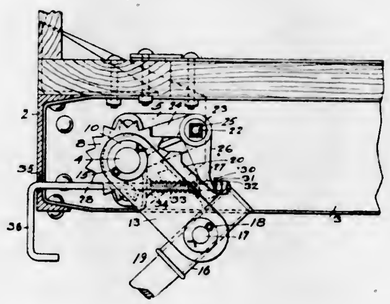
1,428,823. WINDOW-WASHING APPARATUS. JOHN WOJNARSKI, Chicago, Ill. Filed July 23, 1921. Serial No. 487,009. 4 Claims. (Cl. 15—103.)

1. In a window washing apparatus, a frame including a casting with an upper horizontal plate portion and a lower depending vertical portion connected by an intermediate vertical portion, said horizontal plate portion being adapted to rest upon the sill of a window frame and having a vertical shaft journaled therein, said shaft having its lower end journaled in the upper end of said vertical depending portion, a horizontal shaft journaled through the intermediate portion of the casting and having its inner end rotatably geared to the vertical shaft beneath said plate portion, a second plate spaced from and disposed above the first named plate portion, side upright bars rigidly connecting said plates, said vertical shaft being journaled in the second named plate and projecting upwardly beyond the same, a brush carrying plate slidable



upon the upper end portion of said shaft and operatively connected to the latter whereby rotation of said vertical shaft will cause vertical reciprocation of the brush carrying plate, means to rotate said horizontal shaft, and a guide bar having its lower end fixed in the second named plate and projecting upwardly through said brush carrying plate.

1,428,824. RATCHET DEVICE. HARRY T. ANDERSON, Butler, Pa., assignor to Standard Steel Car Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 15, 1921. Serial No. 485,139. 7 Claims. (Cl. 74—54.)

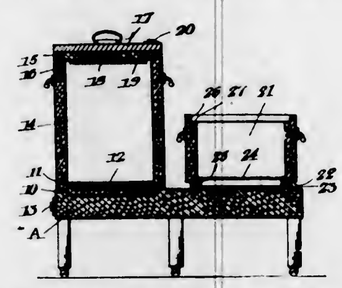


1. In a ratchet device, the combination of a shaft, a ratchet-wheel mounted thereon, a swinging member carried by said shaft, a lever socket mounted to rotate in said member and a ratchet rigidly connected to said socket, whereby the position of said ratchet with reference to said ratchet-wheel may be reversed.

1,428,825. ELECTRIC COOKER. GEORGE HEDLEY BINDON, Ottawa, Ontario, Canada. Filed Jan. 24, 1921. Serial No. 439,531. 9 Claims. (Cl. 219—35.)

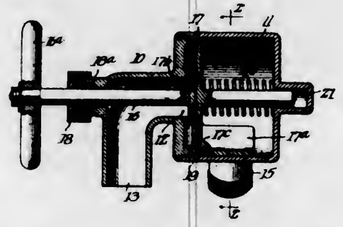
1. A cooker having a base of heat non-conducting material and a removable body of heat non-conducting material in engagement with the base and adapted to be

lifted therefrom, a heat retaining and storage member on the base within the body extending above the plane of



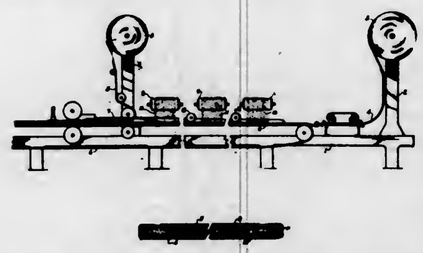
contact between the base and the body, and an electrical resistance on the member, as and for the purpose specified.

1,428,826. FAUCET. EDWARD BITTEL, Forest Park, Ill. Filed Mar. 1, 1920. Serial No. 362,330. 3 Claims. (Cl. 251—4.)



2. In a faucet of the type described, a cylindrical mixing chamber, an outlet in one end wall thereof, laterally arranged inlets in the side wall of said chamber, a circular plate slidably and rotatably mounted within said chamber and provided with a rearwardly projecting flange adapted to close said inlets, means also carried by said plate for closing said outlet, said plate being provided with a cam seat formed in one of its faces, and a stationary cam designed for cooperation with said seat whereby upon rotation of said plate to open either or both of said inlets said plate will also be moved longitudinally within said cylinder to thereby open said outlet.

1,428,827. COMPOSITION WALL BOARD AND METHOD OF MAKING THE SAME. HARRY E. BROOKBY, Evanston, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 12, 1921. Serial No. 514,731. 8 Claims. (Cl. 154—1.)



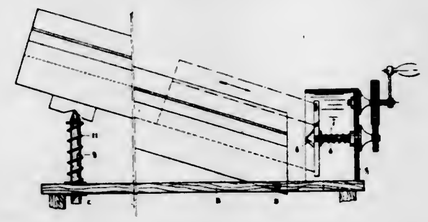
7. The method of fabricating composition wallboard comprising the provision of a cover sheet, the depositing of a layer of plastic calcined gypsum thereon, the depositing on such layer of a core of plastic diatomaceous earth mixture, the depositing upon the core of a layer of plastic calcined gypsum and the laying of a cover sheet upon said last layer.

1,428,828. PHONOGRAPH-NEEDLE BUFFER. THOMAS AHEARN, Ottawa, Ontario, Canada. Filed July 30, 1920. Serial No. 400,134. 3 Claims. (Cl. 274—25.)



1. In a sound reproducing machine, a sound member, a buffing member pivoted to the sound box, and a resilient contact member adjustably supported from the buffing member.

1,428,829. DEVICE FOR TRANSFORMING ICE INTO SNOW. JAMES ANDERSON, Paris, France. Filed Oct. 11, 1921. Serial No. 507,099. 6 Claims. (Cl. 83—62.)



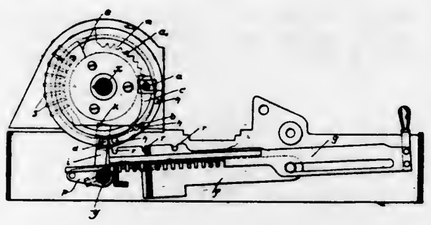
1. An ice-shaving apparatus, comprising an inclined ice-supporting trough; an ice-shaving device at the foot thereof; and means acting to automatically adjust the inclination of the trough in accordance with the weight of a block of ice on the trough.

1,428,830. SHEARS. EUGENE N. ARNOT, San Francisco, Calif. Filed June 9, 1920. Serial No. 387,691. 1 Claim. (Cl. 30—13.)



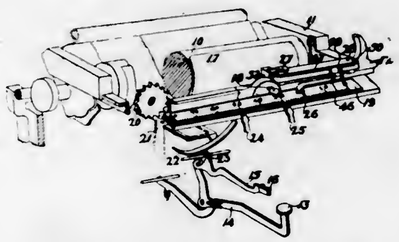
A cutting tool of the character described comprising as a dominating member a longitudinal metal strip and as a subordinate member an L-shaped cutter pivoted to the metal strip and adapted to co-operate with the side edge thereof to produce a cutting effect, the cutting edge of the cutter adapted to overlie the flat surface of the metal strip with the other bend of the L abutting against the side of the strip so as to preserve the single strip character of the tool when in an inactive position.

1,428,831. LOCKING DEVICE FOR CALCULATING MACHINES. WILHELM AUGUSTIN, Berlin-Charlottenburg, Germany, assignor to Bing-Werke, vormals Gebr. Bink Aktien-Gesellschaft, Nurnberg, Germany. Filed May 15, 1922. Serial No. 561,039. 8 Claims. (Cl. 235—73.)



1. In a calculating machine of the class described, the combination with a crank shaft and a series of register actuators thereon including relatively stationary members and coacting selector members adjustable with relation thereto to control the register actuation operation, of a plurality of setting members adapted to coact with the selector members aforesaid, means for shifting the setting members into coacting relation to the selector members and simultaneously releasing the same for adjustment by the setting members, and locking means normally holding the parts of the register actuators in the adjusted position to be operated by the shaft, said means being shiftable into inoperative position as an incident to the operation of the shifting means for the setting members aforesaid, whereby to permit of selective setting of the adjustable members.

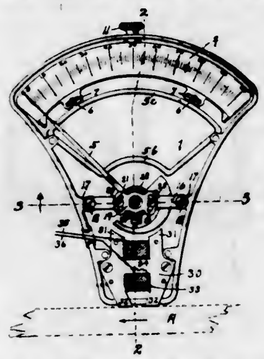
1,428,832. TYPEWRITING MACHINE. HARRY BATES, New York, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 28, 1919. Serial No. 307,341. 9 Claims. (Cl. 197—190.)



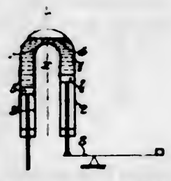
1. In a typewriting machine, the combination with a travelling carriage and a revoluble platen therein, of a letter-space scale, a slide upon the carriage, a block upon the slide, a pointer upon the block, a screw engaging the block and adapted to drive it, a ratchet wheel fast to the screw, a pawl for the ratchet wheel, and a finger-piece for driving the pawl.

1,428,833. MAGNETIC BALANCE. THEODORE S. BINDSCHEDLER, Detroit, Mich., assignor of one-half to Alvah B. Frederick, Detroit, Mich. Filed Sept. 9, 1918. Serial No. 253,181. 9 Claims. (Cl. 175—183.)

9. Means for determining the penetration of magnetic flux through materials to be tested comprising a substantially H-shaped electro-magnet having its coil wound on the central bar to receive alternating current, the work to be tested being placed adjacent the air gap between two poles so as to constitute a path for magnetic flux, and an indicator influenced by the varying magnetic flux at the other two poles, said pairs of poles when alternating current passes through said coil constituting an electro-magnetic balance.

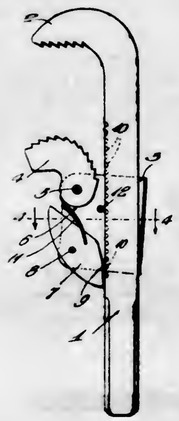


1,428,834. ELECTRIC RESISTANCE FOR REGULATING THE CANDLEPOWER OF ELECTRIC INCANDESCENT LAMPS. GRAVERS JACOBSEN BJERRE, Copenhagen, Denmark. Filed May 4, 1921. Serial No. 466,650. 5 Claims. (Cl. 219—50.)



1. An electrical resistance comprising a bent tube, a granular resistance, conducting terminals contacting with said resistance and means to move at least one of said terminals to vary the cross-section of the resistance at the bend of said tube.

1,428,835. WRENCH. CARL O. BORKMAN, Victor, Colo. Filed Sept. 1, 1921. Serial No. 497,562. 3 Claims. (Cl. 81—134.)



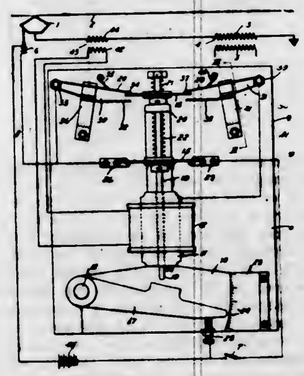
1. A wrench comprising a handle having a laterally disposed fixed jaw at its outer end, a carrier slidably mounted on said handle, a movable jaw pivotally connected at its inner end to said carrier, a locking pawl or lever fulcrumed between its ends on said carrier, co-acting means between the lever and handle for holding the carrier in various adjusted positions, and unitary means carried entirely by said lever and operatively engaged with the movable jaw for maintaining the latter in various positions prior to engaging it with the work, for holding it in engagement with the work, for rendering the aforesaid co-acting means effective, and for swinging the jaw away from the work when the outer end of the lever is pressed toward the handle to render the aforesaid co-acting means ineffective.

1,428,836. POWER-DRIVEN HAIR CLIPPER. JOHN CAMPBELL, Minneapolis, Minn., assignor of one-half to Augustus S. Dowdall, Minneapolis, Minn. Filed July 6, 1920. Serial No. 394,107. 5 Claims. (Cl. 30—1.)



2. A substantially flat hair cutting implement having in combination a handle portion, a toothed comb secured thereto and extending longitudinally thereof, and a reciprocating cutting mechanism secured to said handle and extending longitudinally thereof, comprising a stationary toothed member and a movable toothed member, the teeth of said members being disposed oppositely to the teeth of said comb.

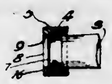
1,428,837. RELAY. ANDREW H. CANDEE, Pittsburgh, and LLOYD J. HIBBARD, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1917. Serial No. 184,804. 12 Claims. (Cl. 175—335.)



12. In an electric circuit, the combination with an electromagnet, a control source of electromotive force and a switch for connecting the electromagnet in circuit with the control source of electromotive force, of a relay energized from the main circuit for opening the control circuit through the switch when an overload obtains on the main circuit and for completing an auxiliary control circuit in shunt relation to the switch when the overload is removed from the main circuit.

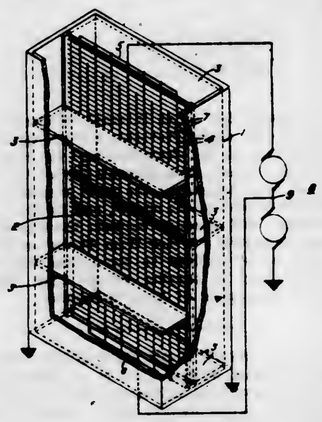
1,428,838. HAMMER. MORTIMER D. DAVIS, Springfield, Mass., assignor of one-half to George L. Cassidy and John J. Murray, both of Springfield, Mass. Filed Mar. 4, 1922. Serial No. 541,212. 2 Claims. (Cl. 145—29.)

1. A protector for hammer comprising in combination, a sleeve arranged for mounting on the hammer head, a flanged edge on the sleeve adapted to coact with the face



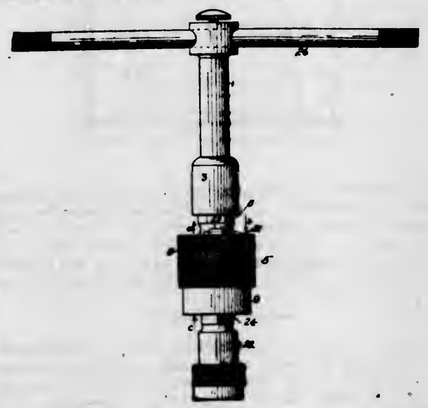
portion and cover the outer edges thereof, and means for reenforcing the flange.

1,428,839. IONIZING ELECTRODE FOR PRECIPITATING APPARATUS. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 25, 1919. Serial No. 279,205. 11 Claims. (Cl. 183—7.)



1. In a system of precipitation, a source of energy therefor, a collecting electrode formed as a treating chamber, a reticulated discharge electrode, and means whereby said discharge electrode may be charged with potentials of different values substantially simultaneously.

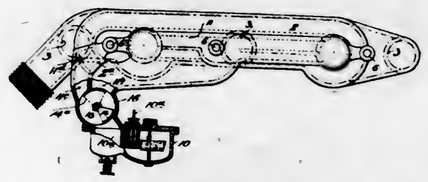
1,428,840. COMBINATION SOCKET WRENCH. WILLIAM H. GATES, New Haven, Conn. Filed Feb. 4, 1922. Serial No. 534,074. 2 Claims. (Cl. 81—60.)



1. A combination socket wrench of the character described, comprising a handle having a socket recessed end,

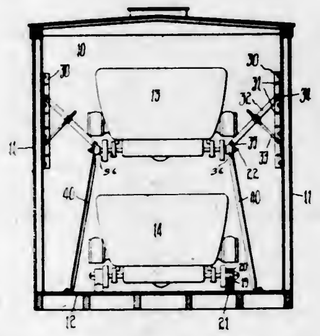
a forked stud located therein, a ratchet head having a stem adapted to be inserted in the recessed end of the handle, said stem having an opening therein adapted to frictionally engage the stud, said ratchet head having a socket recess at its opposite end and a spring pin located therein to connect with interchangeable sockets.

1,428,841. COMBINED INTAKE AND EXHAUST MANIFOLD. ERNEST W. GRAEF, Caldwell, N. J., assignor to Henry J. Gaisman, Woodmere, N. Y. Filed July 12, 1917. Serial No. 180,223. 14 Claims. (Cl. 123—122.)



1. The combination of an internal combustion engine, with a carburetor, means providing a plurality of passages for mixture between the carbureter and the engine intake port or ports, means to heat mixture flowing to the engine through one of said passages, the other passage permitting cold mixture to pass to the engine, and throttle means to close and open said passages between the engine and the carbureter to control the flow from the carbureter to the engine adapted to deliver to the engine through said passages mixture of varying volume and temperature according to the extent of throttle opening.

1,428,842. SYSTEM OF AUTOMOBILE DECKING. GEORGE M. GRAHAM, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 1, 1920. Serial No. 378,282. 15 Claims. (Cl. 105—368.)



1. In means for supporting an automobile in a railway car, the combination of means disposed substantially in transverse planes adapted to suspend the automobile from the walls of the car, and independent bracing means connecting the automobile to the floor of the car and adapted to prevent longitudinal movement of the automobile relative to the car.

1,428,843. PEDAL ATTACHMENT FOR AUTOMOBILES. FREDERICK C. GRANT and FRIEDA Z. GRANT, Chicago, Ill. Filed July 28, 1920. Serial No. 399,547. Renewed July 3, 1922. Serial No. 572,740. 15 Claims. (Cl. 74—81.)

1. In a pedal attachment of the character described, the combination of a main plate bent to engage one edge of a pedal, an extension plate slidably mounted on said

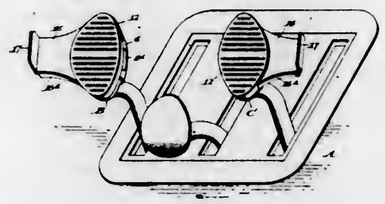
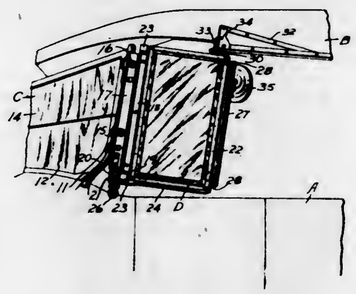


plate and adapted to engage the opposite edge of the pedal and means for clamping said plates to pedal.

1,428,844. AUTOMOBILE WIND DEFLECTOR. JOSEPH P. GRAY, Los Angeles, Calif. Filed June 1, 1921. Serial No. 474,125. 2 Claims. (Cl. 296—84.)

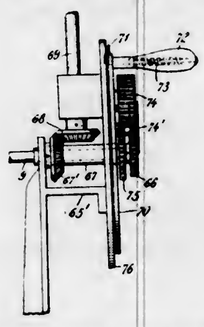


1. In combination with an automobile having a windshield with supporting standards therefor, a support secured to one of said standards, a wind deflector secured to said support at one side by ground-in joints, a handle spaced from the free side of said deflector and secured thereto, an arcuate bracket secured at the upper edge of said deflector, said bracket having spaced holes therein, a frame secured to the automobile top and having a socket for registration with a hole, a detachable pin for insertion in said socket and one of said holes to lock the deflector in adjusted position, a plate on the lower edge of said deflector and having holes therein, and means adjacent the lower joint to lock said deflector in adjusted position.

1,428,845. COMBINED PHONOGRAPH AND MOVING-PICTURE MACHINE. ROBERT D. GRAY, Ridgewood, N. J. Filed June 5, 1920. Serial No. 386,899. 2 Claims. (Cl. 88—16.2.)

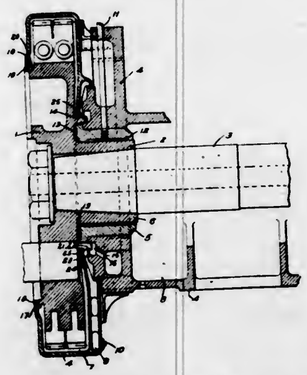
2. In an apparatus of the class described, the combination of a motion picture machine, a sound record machine, means for actuating said machines in synchronism, means for altering the timed relation of the two machines without permanently varying the speed relation, and means for indicating the extent to which the timed relation has been altered from the original setting, said means including a differential connected to the actuating means

and manually operable to accelerate or retard one of said machines, and a graduated stationary dial co-



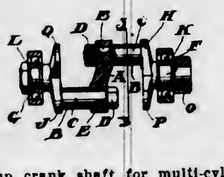
operating with the manually operable floating member of the differential to indicate the change in position thereof from the original setting.

1,428,846. GEAR CASE FOR JACKSHAFTS. HAROLD A. HOUSTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 6, 1922. Serial No. 534,381. 8 Claims. (Cl. 74—56.)



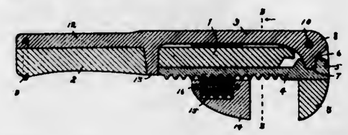
1. The combination with a shaft, a gear, a journal bearing therefor, and a casing, of a plurality of lubricating means to separately lubricate the teeth of said gear and said journal bearing, and means for maintaining separation of the lubricating fluids.

1,428,847. BUILT-UP CRANK SHAFT. FRANCIS A. JIMERSON, Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 27, 1922. Serial No. 564,100. 2 Claims. (Cl. 74—38.)



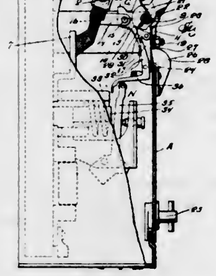
1. A built up crank shaft for multi-cylinder engines, comprising a center web having sleeve portions integral therewith and extending outwardly in opposite directions at each end of the web to form the bearing portions of the crank pins, shaft ends having end webs carrying crank pins integral therewith and adapted to be inserted through said sleeve portions of the center web, and means for securing the crank pins to the center web.

1,428,848. COMBINATION TOOL. ALBIN J. JOHNSON, Duluth, Minn., assignor of one-half to Carl Hanson, Duluth, Minn. Filed Mar. 24, 1921. Serial No. 455,228. 2 Claims. (Cl. 81—87.)



1. A wrench comprising in combination a main body portion having a fixed jaw upon one end thereof, a slidable jaw carried by the body portion, slidable means intermediate of the two jaws, separable therefrom and conactively uniting the same, and an arm-like member pivotally mounted in the body portion adjacent the fixed jaw and engaging the slidable means.

1,428,849. SAFETY PANEL BOX. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 23, 1918. Serial No. 251,079. 7 Claims. (Cl. 200—50.)

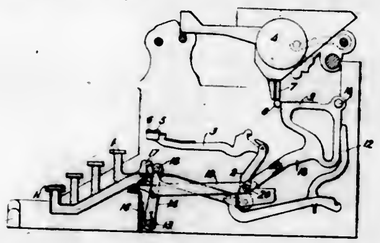


1. A panel box having a movable door, a switch mechanism movable into "on" and "off" positions, the switch mechanism including toggle links movable into made and broken positions, and the door having a part adapted when the door is opened to directly engage one of the toggle links to operate the toggle.

1,428,850. TYPEWRITING MACHINE. ALFRED G. F. KUBOWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 6, 1920. Serial No. 415,015. 3 Claims. (Cl. 197—108.)

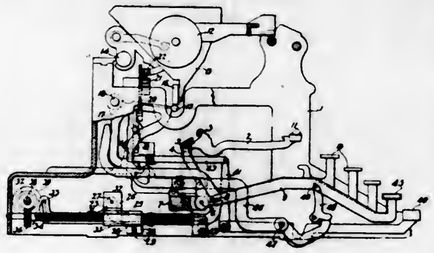
1. In a typewriting machine, the combination with a carriage, a platen, types having upper and lower case characters thereon, key-levers for driving said types to print, a lock to engage said key-levers, said lock forming

part of a line-locking mechanism and normally out of the paths of said levers, and case-shifting means for determining whether said types shall print on said platen in upper or lower case, of a cam-member movable by said



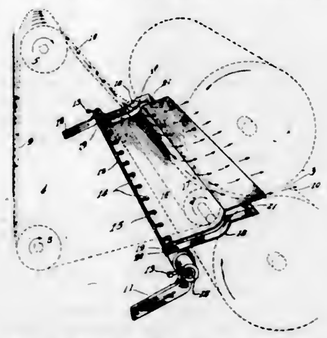
case-shifting means and effective on said lock driving case-shifting movements, to move it into the paths of said levers, but releasing said lock, to permit the latter to return to normal position, when said case-shifting means is in either of its extreme positions.

1,428,851. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 28, 1921. Serial No. 440,665. 6 Claims. (Cl. 197—27.)



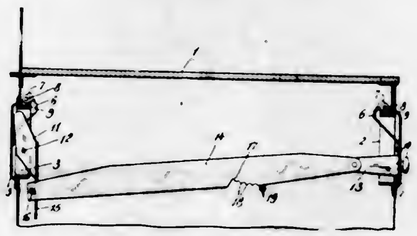
1. In a typewriting machine, the combination with a key-lever, of an arm slidably mounted on said lever, a bracket pivotally supporting said arm, and means for adjusting said bracket.

1,428,852. PAPER-FINISHING MACHINE. WILLIAM F. MCCARTHY, Springfield, Mass. Filed Feb. 7, 1921. Serial No. 443,207. 12 Claims. (Cl. 92—74.)



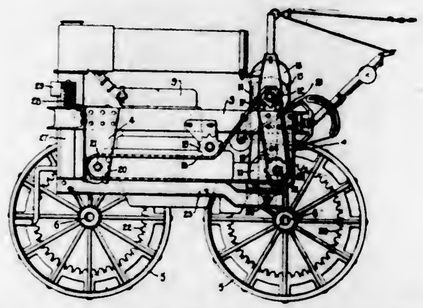
1. A finish feeder in combination with a set of calenders, a flat plate extending the length of one of the calender rolls having its feeding edge brought adjacent to the finishing point of the calenders against the roll, and means for adjustably holding the plate in position, and whereby the rough stock will be received thereby and slid thereon, ironed and fed from the plate to the calenders.

1,428,853. STOVE AND RANGE. SILAS MCCLURE, Beaver Dam, Wis. Filed Jan. 28, 1921. Serial No. 440,572. 7 Claims. (Cl. 129—190.)



1. In a stove or range having draft openings in opposite walls, doors for closing the openings, and means arranged between the doors and connected to one door and abutting the other door when the first named door is opened to open said second named door.

1,428,854. FARM TRACTOR. JOHN M. MEYERS, Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 17, 1919. Serial No. 345,634. 14 Claims. (Cl. 180—17.)

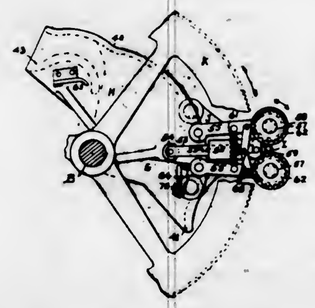


1. In a tractor, a suitable main frame; driving wheels whereby said main frame is supported; two oppositely disposed supporting members depending from said main frame; a supplemental frame one end of which is pivotally supported from said main frame through said supporting members; two oppositely disposed supporting members connected with the other end of said supplemental frame and extending upwardly therefrom and terminating above said main frame; two springs associated one with each of said last mentioned supporting members and the lower ends of which are supported by said main frame, and through which springs said supplemental frame is supported from said main frame; an engine carried by said supplemental frame; and power transmitting mechanism through which said driving wheels are driven from said engine.

1,428,855. APPARATUS FOR MANUFACTURING GLASS ARTICLES. WILLIAM J. MILLER, Swissvale Borough, Pa. Filed Sept. 23, 1919. Serial No. 325,617. 19 Claims. (Cl. 49—19.)

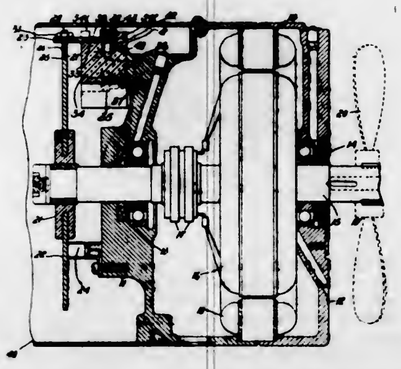
8. In a paste mold machine, a revolving support, a fixed gear axially alined with said support, pairs of pipe

rotating rollers moving with said support, gears carried by said rollers and meshing with said fixed gear to rotate said rollers, and means for resiliently pressing said rollers into engagement with the blow pipes.



17. In a glass machine, a rotary mold support, a fixed cam member, a partible mold mounted on said support, shafts associated with the mold part in such a manner that the rotation of said shafts opens and closes the molds, a depending sleeve fitting down over each shaft, means for locking said shafts to their respective sleeves and means associated with said sleeves to rotate the same and engaging said fixed cam tracks.

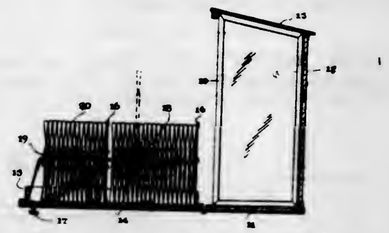
1,428,856. SPARK-GAP APPARATUS. LESLIE O. PARKER, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 13, 1918. Serial No. 234,131. 8 Claims. (Cl. 250—38.)



2. A spark-gap apparatus comprising the combination with a rotatable toothed disc electrode, of a relatively stationary electrode adjustable radially and circumferentially with relation to said rotatable electrode, and a fixed insulating block supporting said stationary electrode and mounted at a distance from the axis of said rotatable electrode.

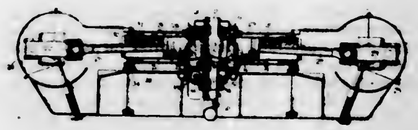
1,428,857. DISPLAY CABINET. GEORGE PIVAR, New York, N. Y., assignor to Joseph Frankenthaler, Benjamin Frankenthaler, and Solomon Frankenthaler, New York, N. Y., composing the Firm of Frankenthaler & Frankenthaler. Filed Mar. 2, 1922. Serial No. 541,648. 2 Claims. (Cl. 211—16.)

1. In a show case, a bottom, a door having its lower edge hinged to the bottom, shelves projecting at right angles to the door, a dividing and bracing rod extending



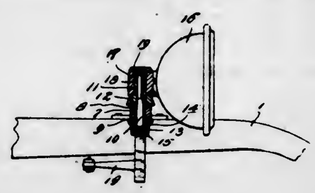
through the shelves and having one end attached to said door, and a keeper slidably mounted on said rod.

1,428,858. INTERNAL-COMBUSTION ENGINE. FINLEY R. PORTER, Port Jefferson, N. Y., assignor to Knight American Patents Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 31, 1916. Serial No. 128,732. 24 Claims. (Cl. 123—53.)



1. In a four-cycle multiple cylinder internal combustion engine, a pair of horizontally opposed cylinders adapted to function simultaneously, a rotary valve and its casing located between the inner ends of said cylinders, a pair of crank shafts and their casings located at the outer ends of said cylinders and pistons working in said cylinders, connected to their crank shafts through the outer ends of said cylinders.

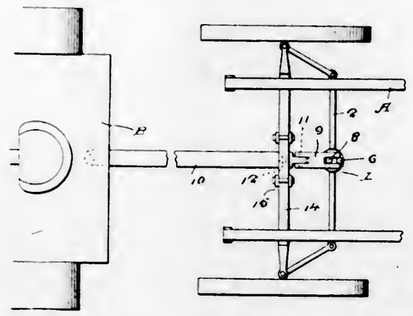
1,428,859. DIRIGIBLE HEADLIGHT FOR MOTOR VEHICLES. ETHAN T. RAMSAY, Reading, Pa. Filed May 23, 1922. Serial No. 562,940. 1 Claim. (Cl. 240—62.)



In dirigible headlight construction, brackets secured to the side bars of the chassis of the motor vehicle and extending outwardly from said bars, vertical sleeves on the outer ends of said brackets, respectively, a shaft journaled in each sleeve and projecting above and below the same, a sleeve surrounding the top portion of each shaft, an annular flange formed on the lower end of the second named sleeve, anti-friction bearings between said flange and the first mentioned sleeve, a bearing collar threaded onto the lower portion of said shaft below the first named sleeve and having its upper end enlarged, anti-friction bearings between the enlarged end of said collar and the lower end of the adjacent sleeve, a headlight carrying bracket formed with a vertical bore that receives the second named sleeve, a clamping collar threaded on the

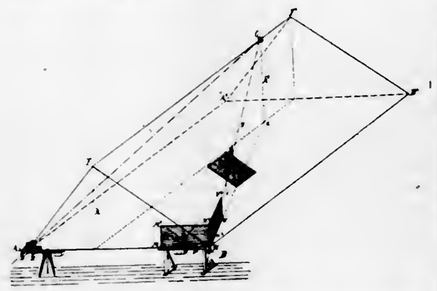
upper end of said shaft and engaging said bracket to hold the latter upon the second named sleeve and connections between the lower ends of said shafts and the tie rod of the steering gear of the motor vehicle.

1,428,860. TOWING DEVICE. FRANK REINSCHMIDT, Crookston, Minn. Filed Apr. 19, 1921. Serial No. 462,593. 1 Claim. (Cl. 280—33.5.)



A towing device comprising a clamp consisting of upper and lower sections hingedly connected at one end thereof, its opposite end provided with apertures for the insertion of a connecting bolt, a serrated semicircular groove formed within each section and adapted to receive the connecting rod of the steering mechanism, an upwardly extending stud disposed upon the top of the upper section and projecting therefrom, a bar forked at its ends one end being adapted to receive said stud, a bracket provided with upwardly extending arms and adapted to be clamped upon the front axle of the towed vehicle, a stud projecting downwardly from the lower side of said bracket, a lever having a reduced end hingedly connected to the opposite forked end of said bar and provided near its reduced end with an aperture adapted to receive the last mentioned stud, a projection extending downwardly from the lower part of said bar adjacent its hinged end, a coil spring having its ends secured to said projection and lever respectively and means for fastening the opposite end of said lever to the towing vehicle.

1,428,861. PROCESS AND APPARATUS FOR DETERMINING THE POSITION OF AN INACCESSIBLE POINT. EMILE JOSEPH AUGUSTIN SCHULTZ, Paris, France. Filed Oct. 22, 1918. Serial No. 259,241. 11 Claims. (Cl. 33—67.)



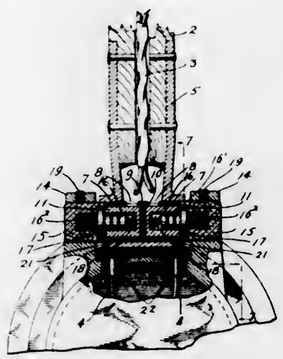
3. Means for determining the altitude and distance away of an object comprising two observation stations a known distance apart, and sighting means at one station comprising a sighting disk pivoted on an axis perpendicular to a straight line joining said stations, and means for measuring the angle made by said disk with the horizontal plane, said disk having projections on its face, and a wire around the margin of said disk carried by said projections, by means of which the ease and accuracy of the sighting is facilitated.

1,428,862. VULCANIZER IGNITER. HARRY A. SHEETZ, Jr., New York, N. Y. Filed Sept. 10, 1919. Serial No. 322,814. 4 Claims. (Cl. 44—39.)



1. A disc-shaped fuel element adapted to be placed in the receptacle of a portable vulcanizing apparatus, in combination with a frictionally ignitable element mounted thereon, and capable of igniting the said fuel element.

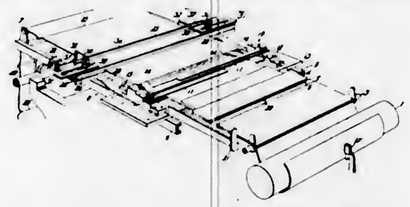
1,428,863. ELECTRICAL CONNECTION. HERBERT M. SMITH, Farmington, Conn. Filed Jan. 6, 1921. Serial No. 435,309. 11 Claims. (Cl. 173—324.)



7. In an electrical connection, two relatively movable metallic members having portions provided with alining openings, a metallic bushing within the opening in one of said members and insulated therefrom, a removable shouldered pivot pin having an enlarged portion within the opening in said other member and a reduced metallic portion projecting into said bushing, a metallic shoulder connected to said reduced portion, a resilient contact embracing said reduced portion and bearing against the end of said bushing and said shoulder, means for connecting conductors to said bushing and contact respectively, said bushing being closed at its inner end, and a spring within said bushing engaging its inner end and the end of said metallic reduced portion.

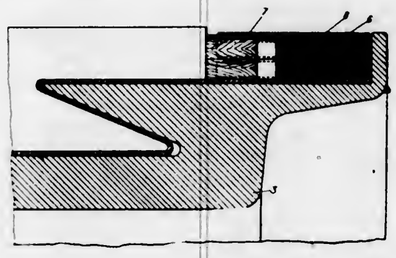
1,428,864. TYPEWRITING MACHINES. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed June 18, 1920. Serial No. 389,805. 20 Claims. (Cl. 197—126.)

1. In a typewriting machine, the combination with a traveling carriage and a displaceable platen, of a carbon-paper-carriage reciprocable on the traveling carriage, and through which a fan-folded web may be threaded, slitters



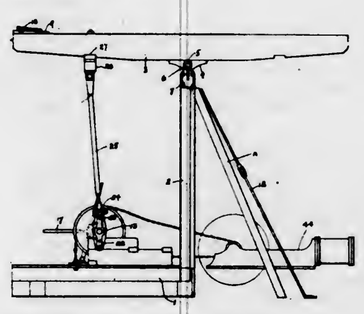
for said web, and a smoothing device for smoothing the web as it approaches the slitters.

1,428,865. COMMUTATOR CYLINDER. CHARLES W. STARKER, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 14, 1918. Serial No. 211,774. 5 Claims. (Cl. 171—206.)



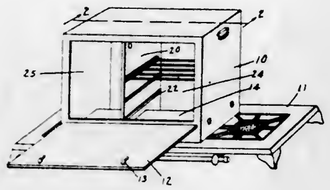
1. In a dynamo-electric machine, conducting bars and alternately disposed non-conducting bars constituting a hollow commutator cylinder, and a supporting sleeve located within said cylinder, a plurality of said conducting bars being uniformly spaced and projecting from one end of said cylinder, and conductors mounted on said supporting sleeve and connecting the ends of equi-potential projecting bars, said conducting bars and said conductors being disposed at the same distance from the center.

1,428,866. PUMPING APPARATUS. JOHN R. SUMAN, Houston, Tex., assignor to Lucey Manufacturing Corporation of Tennessee, Chattanooga, Tenn., a Corporation of Tennessee. Filed June 4, 1921. Serial No. 475,017. 4 Claims. (Cl. 74—14.)



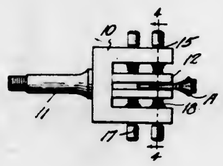
1. In a device of the character described, a shaft, means to rotate said shaft, a pair of crank arms on said shaft, a Samson post, a walking beam pivoted thereon, a pump rod attachment on the outer end of said beam, a crossyoke secured midway between the pivot and the end of said pump rod attachment and pitmen connecting the ends of said yoke and said crank arms.

1,428,867. OVEN. HERBERT C. TAYLOR, Greensburg, Ind. Filed Dec. 5, 1921. Serial No. 519,945. 6 Claims. (Cl. 126—275.)



1. The combination with an oven having an open bottom, and means for heating said oven, of a nonconducting partition wall disposed within said oven hingedly mounted upon a member thereof, which may be swung within said oven to form a partition, a horizontally disposed flame projecting member mounted in said oven, and aprons mounted on said wall in position to extend beyond said member when said wall is in operative position.

1,428,868. RING CHUCK. JOHN R. UECKERT, Dallas, Tex. Filed Apr. 14, 1921. Serial No. 461,404. 5 Claims. (Cl. 279—55.)

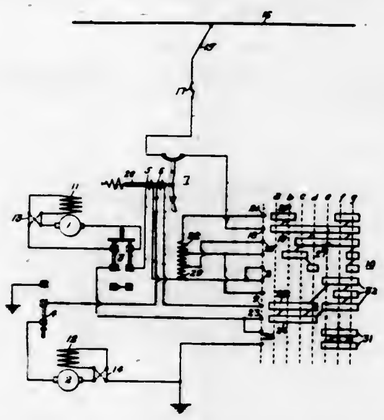


1. In a ring chuck, a jaw having a centrally extending shank, a pair of plates loosely mounted within the jaw, a plurality of screws mounted in each side of the jaw and provided with points, said plates having spaced recesses receiving the points of the screws, said plates being adapted to receive and clamp an article therebetween, and coil springs extending between the sides of the jaws and the plates for holding said plates in engagement with an article while they are being shifted and adjusted by the screws.

1,428,869. PROTECTIVE DEVICE. GEORGE M. WOODS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1919. Serial No. 288,678. 6 Claims. (Cl. 175—294.)

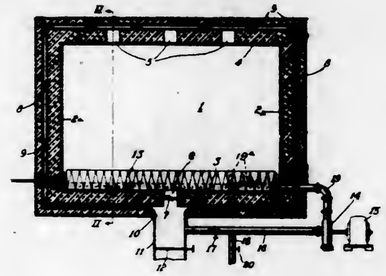
5. The combination with a plurality of electrical translating devices and means for connecting the same in a circuit in series and in parallel relation, of a circuit interrupter comprising a plurality of electromagnetic devices having a cumulative magnetic pull and each connected to

receive the current passing through a different one of said devices when the latter are connected in parallel and all



of which may be placed in series with the circuit when said devices are operated singly and in series.

1,428,870. OVEN. JAMES C. WOODSON, Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Oct. 29, 1920. Serial No. 420,393. 3 Claims. (Cl. 34—19.)



1. In a ventilated oven, the combination with a set of walls enclosing a chamber and having ventilated openings, heat-insulating material located between said walls, and heating means for said chamber, of a second set of walls located outside of said first mentioned walls and having a ventilating opening located on the side of said oven opposite to said first mentioned ventilating openings, heat-insulating material between said walls, spacing blocks of relatively small area for spacing said sets of walls apart, the ventilating openings and the space between the sets of walls being so connected as to permit of supplying substantially all of the heat-radiation losses of the oven from the heated fluid flowing through the said ventilating openings and said space.

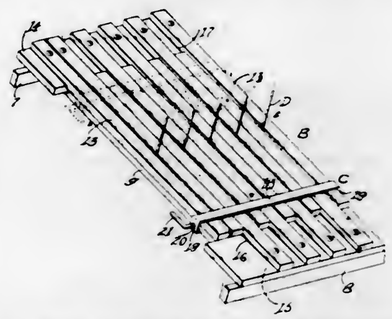
1,428,871. VALVE GRINDER. ANGELO ALDI and JOSEPH ALDI, Southington, Conn. Filed Apr. 17, 1922. Serial No. 554,077. 3 Claims. (Cl. 51—29.)

1. A valve grinder, comprising a shank provided at its lower end with a valve-gripping means, the outer end of the shank flattened and twisted, a two-part handle into which the said stem extends, the two parts being connected together by a nut having a transverse slot through which the shank extends, a tubular plug in the inner end of the han-



dle, forming a guide for said shank, a spring between the said tubular plug and nut, and a plug inserted into the outer end of the handle.

1,428,872. CANDY-DIPPING DEVICE. ISAAC ANDERSON, Oakland, Calif. Filed Apr. 22, 1921. Serial No. 463,524. 4 Claims. (Cl. 91—6.)

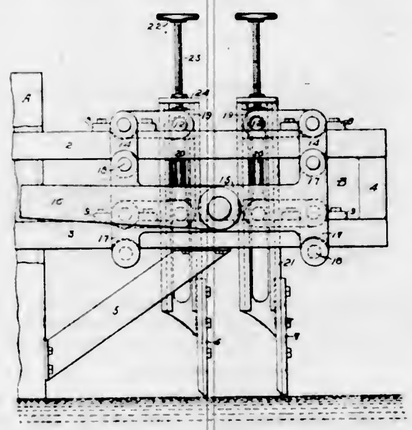


1. A device of the character described comprising, a supporting frame for holding a plurality of sticks to be dipped, said frame including end sills and spaced connecting split bars having depressions for receiving therein the sticks to be dipped, a dipping frame including interlocking strips and adapted to be positioned on said supporting frame, and clamping means secured on said last mentioned frame whereby the sticks positioned in said supporting frame are withdrawn therefrom, for the purpose specified.

1,428,873. PADDLE PROPELLER. BENJAMIN F. BADDELEY, San Francisco, Calif., assignor of forty-nine per cent to J. Charles King, San Francisco, Calif. Filed Jan. 2, 1920. Serial No. 348,822. 6 Claims. (Cl. 115—66.)

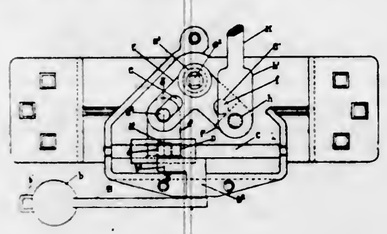
1. A paddle propeller comprising a frame, two pair of superposed cranks journalled in the frame, each of said cranks comprising a pair of widely separated crank webs connected by a long crank pin, a pair of interspaced vertically disposed arms connecting the crank pins and journalled thereon, a paddle blade secured to the lower ends of the arms and connecting the arms, and a common

connecting member for each end of the cranks to insure unitary movement of the cranks, said connecting member



comprising a straight bar with a T-shaped head formed on each end thereof and a connecting rod attached to the center portion of said member.

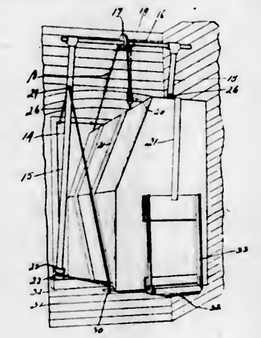
1,428,874. MANUALLY-OPERATED SWITCH STAND. OLIVER H. BARBON, Cincinnati, Ohio. Filed Nov. 25, 1921. Serial No. 517,669. 5 Claims. (Cl. 246—411.)



5. In combination with a switch stand of the character indicated, a switch throwing crank, a renewable element adapted to constitute an extension of one arm of said crank, a connecting rod pivoted to said renewable element, and a frangible part of said renewable element adapted to connect said renewable element with the end of said arm of said switch throwing crank so that when an abnormal strain is put upon the switch it will be transmitted through said connecting rod and break said frangible part.

1,428,875. PIANO HOIST. SAMUEL B. BILGER, Buckingham, Pa. Filed Jan. 14, 1921. Serial No. 437,197. 2 Claims. (Cl. 254—142.)

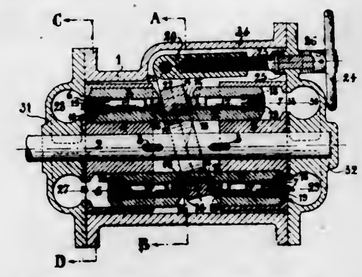
1. A piano hoist comprising in combination an elevator jack adapted to rest upon the floor of a building and engage the inner face of a wall thereof in the region of a window, a boom adapted to rest upon the window frame and project upwardly and outwardly therefrom, attaching brackets for holding the boom to the window frame, suspension cables attached to the elevator jack and passing through the boom, said cables having knots tied therein for preventing outward movement of the boom, the ends of said cables being provided with loops for



receiving the ends of a bar, a shive wheel on said boom, a hoisting cable provided with a block and passing over

said shive wheel and having one end fastened to the boom, and means on the elevator jack for actuating the hoisting cable.

1,428,876. PUMP OF VARIABLE CAPACITY. ARTHUR BOLLINCKX, Brussels, Belgium. Filed Nov. 5, 1921. Serial No. 513,200. 2 Claims. (Cl. 103—162.)



1. In a rotary pump of the type comprising a casing with end-covers having distribution chambers formed therein, an annular series of double pistons slidably mounted in two opposed annular series of cylinders formed in a pair of rotary bodies having their opposed ends adjacent the end-covers of the casing, lateral apertures in the wall of the distribution chambers adjacent the rotary-bodies, and means for causing the pistons to be influenced during rotation of said bodies by inclined guiding surfaces in such a manner as to be reciprocated within their cylinders, the combination of: guiding surfaces constituted by the flat annular faces of a stationary adjustably inclined solid guide-ring having a diametral axis situated centrally between the adjacent end faces of the rotary bodies, hand-operated means for effecting the adjustment of said ring, double pistons having the ends of the single pistons facing respectively each of the two annular faces of the stationary guide-ring provided with self-adjusting friction-blocks in direct frictional contact with said annular faces, said blocks having the shape of spherical caps fitting a correspondingly-shaped adjustable portion of the pistons, substantially as described.

1,428,877. CLAMP. WILLIAM B. BOWMAN, Chicago, Ill., assignor of one-half to Gustav Hoffman, Chicago, Ill. Filed Feb. 2, 1920. Serial No. 355,683. 3 Claims. (Cl. 294—115.)

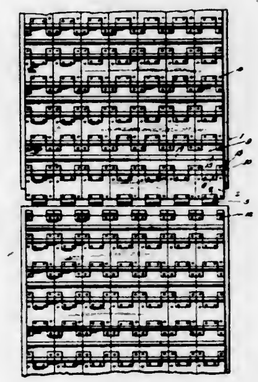
1. A clamp comprising a handle; a frame on said handle; clamping jaws freely slidable longitudinally in

said frame and pivotally connected together; means for forcing said jaws apart and limiting their movement when sliding outwardly, and for forcing said jaws



together by contact thereagainst; and means for automatically locking said jaws as they are forced inwardly and together, substantially as described.

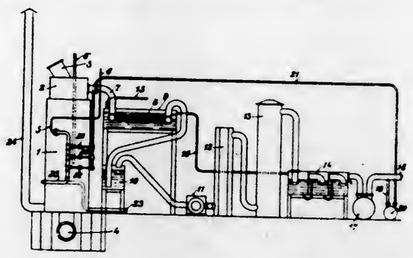
1,428,878. CONVEYER BELT. EDWARD J. BRENNAN, Chicago, Ill. Filed Aug. 4, 1921. Serial No. 489,735. 6 Claims. (Cl. 198—193.)



5. A conveyer belt comprising a foundation of flexible sheet material, and mutually connected wear plates upon the surface of the foundation, certain of the plates being resilient and having their intermediate portions outwardly bulged to provide transverse ribs capable of expansion and contraction through the inherent resiliency of the plates to compensate for stretching and contraction of the foundation and to serve also as means for accumulating and retaining the material to be handled upon the belt.

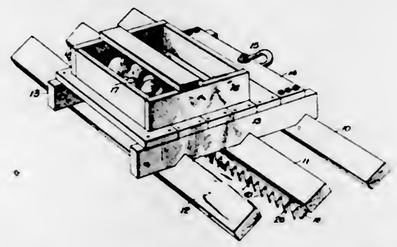
1,428,879. APPARATUS AND METHOD FOR THE PRODUCTION OF A GASEOUS MIXTURE OF $CH_4 + H$. LÉON COLSON, Paris, France. Filed Dec. 12, 1918. Serial No. 266,489. 4 Claims. (Cl. 48—128.)

1. Apparatus for completely gasifying combustible carbon matter by the action of steam in the presence of lime at a suitable temperature comprising in combination: a furnace, a retort heated by burners, a heat exchanger for lowering the temperature of the gases from the retort, means for absorbing the ammonia from the gases, means



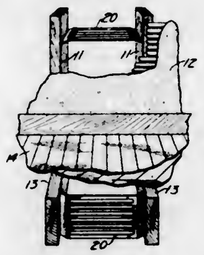
for absorbing carbonic acid and means for inducing the flow of gases through the apparatus and suitable conduits connecting the individual parts of the apparatus.

1,428,880. SOIL-WORKING IMPLEMENT. BENJEW H. DE MOTT, Millington, N. J. Filed May 27, 1921. Serial No. 472,980. 2 Claims. (Cl. 55—22.)



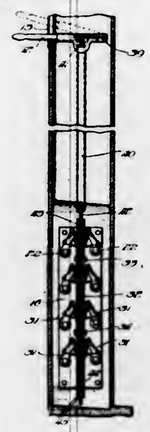
1. A soil working implement in the nature of a levelling drag having soil engaging beams, and an angle bar having one portion secured vertically along one of said beams and having its other horizontal portion provided with a lengthwise series of inclined slits extending inwardly from its free edge and with downturned triangular extensions adjacent to said slits disposed at right angles to the said horizontal portion of the bar, forming soil entering teeth projecting below the beams.

1,428,881. FIRE STOP. RALPH M. DYAR, Grosse Pointe Farms, Mich. Filed Aug. 30, 1921. Serial No. 496,983. 7 Claims. (Cl. 20—4.)



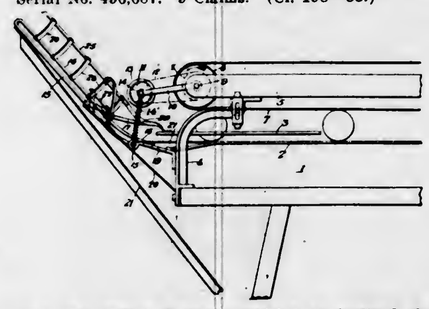
1. In a fire stop for obstructing wall and floor passages in a frame building, a plate of greater length than the space which it is to occupy, having bent portions so formed within the edges of said plate that the effective length thereof will be reduced sufficiently to allow it to be placed between the building members enclosing the passage to be obstructed, and that said plate may be expanded to be secured in position by the straightening of said bent portions.

1,428,882. VENTILATOR AND THE LIKE. EDGAR M. DYER, Chicago, Ill. Filed June 1, 1920. Serial No. 385,555. 5 Claims. (Cl. 98—31.)



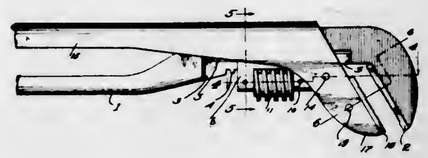
1. A ventilator for the purpose specified, comprising in combination a rectangular frame, two series of plates extending across said frame, the plates of one series lying opposite to the plates of the other series, a horizontal pivotal member for each plate, journals for the ends of said pivotal members in the side portions of the frame, whereby as the pivotal members of one series are rocked in one direction and the pivotal members of the other series are rocked in the other direction the upper portion of each plate approaches towards or recedes from the lower portion of the next higher plate of the series, a swinging operating finger on the end of each pivotal member, a vertical operating bar between the fingers of one series and the fingers of the other series, a slotted link pivoted to said operating bar for each finger, a pin on each finger working in the slot of the corresponding link, and a spring connection between each finger and the corresponding link, tending to move the finger towards the outer extreme of movements as permitted by the pin and slot connection thereof, for the purpose specified.

1,428,883. CAN-FEEDING APPARATUS. KENNETH W. EMERSON, Honolulu, Hawaii. Filed Aug. 29, 1921. Serial No. 496,687. 9 Claims. (Cl. 198—33.)



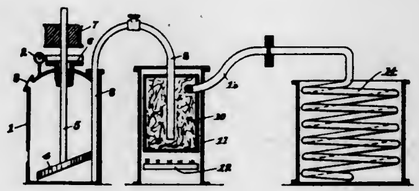
1. A can feeding device comprising an inclined chute to receive and advance the cans in end to end stacked relation, an abutment at one side of the lower end of the chute to engage the edge of the lowermost can, and a driven friction wheel above the end of the chute to engage and rotate said lowermost can about its point of engagement with the abutment to bring the can into rolling position at the entrance of a runway.

1,428,884. COMBINATION PLIERS. ROBERT B. FERGUSON, Howell, Mich., assignor to G. E. Harpham, Los Angeles, Calif. Filed May 13, 1920. Serial No. 381,008. 4 Claims. (Cl. 81—79.)



1. In combination pliers, a solid one-piece handle having a gripping jaw extending outwardly at an angle from the upper end thereof, a rack formed on one side thereof, the handle being provided with a pair of oppositely disposed grooves, a movable member riding in the said grooves, a worm rotatably mounted in the said movable member, and engaging the rack, and a second handle U-shaped in cross-section fitting over the first-named handle and pivotally mounted upon the said movable member.

1,428,885. METHOD OF FORMING A LIQUID FUEL. ALBERT HAYES, New York, N. Y., assignor, by mesne assignments, to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 5, 1919. Serial No. 302,066. 9 Claims. (Cl. 44—9.)

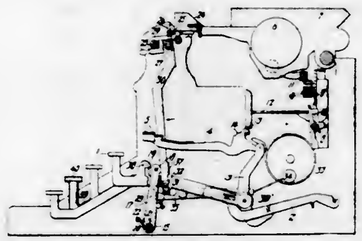


1. The process of making a fuel of non-stratifying character which comprises subjecting a vaporized mixture of a heavy hydrocarbon oil and alcohol containing small proportions of a light hydrocarbon and ether, to the action of a finely divided zinc or nickel catalyst at a temperature below about 300 degrees C.

1,428,886. TYPEWRITING MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 25, 1919. Serial No. 279,081. 3 Claims. (Cl. 197—110.)

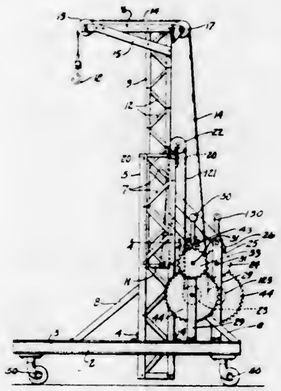
1. In a typewriting machine, the combination with a keyboard including a plurality of keys, of locking means to lock said keys against operation at the end of a line of writing, said locking means having an operating arm located adjacent one end of the typewriter frame, a movably mounted controller bar for said locking means, said bar having a part capable of being brought into contact with said operating arm so as to move the same and render said locking means effective, a lock-release

key in said keyboard, and means rendered effective on depression of said key for moving the contacting portion



of said bar toward the adjacent end of said typewriter frame, thereby separating it from said operating arm and permitting said locking means to release said keys.

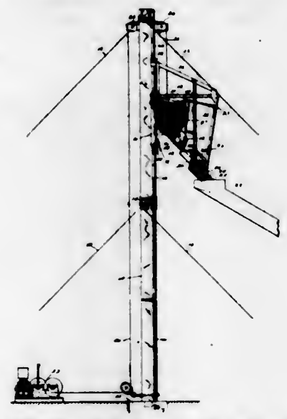
1,428,887. PORTABLE CRANE. ETHAN N. HESCOCK, Westfield, N. J., assignor to New Jersey Foundry & Machine Company, a Corporation of New Jersey. Filed Aug. 1, 1921. Serial No. 488,874. 4 Claims. (Cl. 212—142.)



1. The combination in a portable crane of a base, traction means to permit the base to be moved to any desired location, a fixed mast formed of an angle irons and spacing members, wheels mounted on the angle irons of the fixed mast, an extension mast formed of angle irons and spacing members, the angle irons of the extension mast cooperating with the wheels mounted on the fixed mast, and means to raise and lower the extension mast.

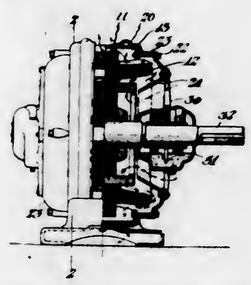
1,428,888. HOISTING APPARATUS. WILLIAM H. INSLEY and ALVIN C. RASMUSSEN, Indianapolis, Ind., assignors to Insley Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed Jan. 6, 1921. Serial No. 435,325. 6 Claims. (Cl. 214—95.)

1. An apparatus for handling building materials comprising a mast, an arm carried by said mast near its upper end and provided with a depending frame, a chute hopper supported by said frame, an elevator bucket carried by the mast and provided with means for control of material therefrom, a bridge pan supported by the depending frame normally out of line of movement of the bucket upon links pivoted to the depending frame, and means controlled by the vertical movement of the bucket for



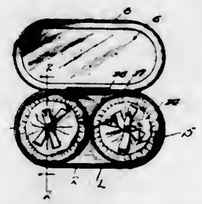
projecting and retracting the bridge pan, said means comprising a lever projected into the path of movement of the bucket and a connection between said lever and pan.

1,428,889. DYNAMO-ELECTRIC-MACHINE CONSTRUCTION. CARL E. JOHNSON, Los Angeles, Calif., assignor to U. S. Industries, Inc., a Corporation of California. Filed Feb. 19, 1921. Serial No. 446,275. 8 Claims. (Cl. 171—252.)



1. In a dynamo electric machine the combination of an assembly of stator punchings; clips on the periphery of said assembly projecting down on either side of said punchings and holding them together; a retaining member encircling said clips and preventing them from becoming disengaged from said punchings, and means for supporting said retaining member.

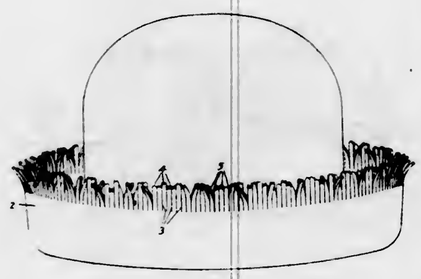
1,428,890. PARTITION FOR VANITY CASES. WILLIAM G. KENDALL, Newark, N. J. Filed June 29, 1920. Serial No. 392,852. 2 Claims. (Cl. 132—83.)



1. The combination with a vanity case, of a partition for the same comprising resilient article embracing mem-

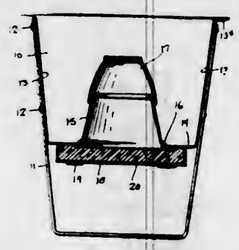
bers each of substantially semiannular form, the said members being disposed together with their convex sides in contact and united to each other and having their concave sides presented in opposite directions and toward the ends of the said case.

1,428,891. FRINGED HAT. LOU KRAUSE, New York, N. Y., assignor to Slyt Edge Company, Inc., a Corporation of New York. Filed Mar. 29, 1922. Serial No. 547,929. 3 Claims. (Cl. 2—110.)



1. A soft felt hat the brim of which is cut and dentated so as to form a pointed fringe of narrow flexible tongues of substantial thickness relative to their width, substantially as and for the purpose set forth.

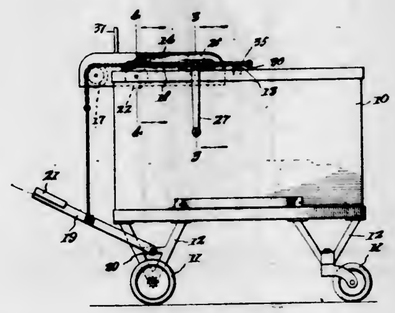
1,428,892. APPARATUS FOR MOLDING ICE CAKES. WARREN LATHAM, Spokane, Wash. Filed Aug. 9, 1921. Serial No. 490,830. 2 Claims. (Cl. 62—110.)



1. An apparatus for molding ice-cakes, comprising a container, an opening in the bottom of the container, a wall surrounding such opening and extending upwardly into the container, a flexible body, loosely mounted on said wall and extending upwardly into the container and an insulation on the outside of the bottom of the container extending over the opening in the bottom of the container.

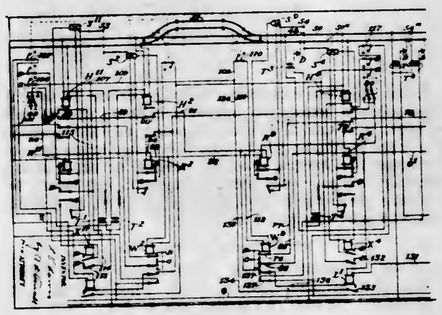
1,428,893. MOP-WRINGER. SIMEON C. LAWLOR, Chicago, Ill. Filed Mar. 18, 1919. Serial No. 283,408. 2 Claims. (Cl. 15—262.)

1. In wringing apparatus, the combination with a frame adapted to be mounted on a tank and a roller journaled between the side walls of the frame, a carriage movably sustained by the frame, a roller journaled in the carriage and movable therewith toward and away from the first roller, cable connections, and means for actuating the same for shifting the carriage in one direction, a link pivoted to the carriage, a lever pivoted to the link, and



means engaging the lever for enabling manual shifting of the carriage in the opposite direction.

1,428,894. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. LLOYD V. LEWIS, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 15, 1919, Serial No. 317,830. Renewed Feb. 27, 1922. Serial No. 539,765. 32 Claims. (Cl. 246—33.)

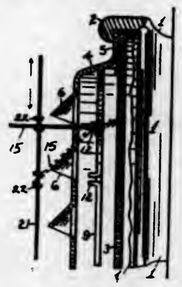


27. In combination, a section of railway track, a track circuit for the section including a relay connected across the track rails, a transformer the secondary of which is connected across the rails of said section in multiple with said relay, and means for supplying alternating vehicle governing current to the primary of said transformer.

1,428,895. HEADLIGHT SCREEN. EDWIN W. LODGE, Norfolk, Va., assignor of one-fourth to Frederick D. Cock, Hampton, Va. Filed Jan. 31, 1922. Serial No. 533,075. 1 Claim. (Cl. 240—45.2.)

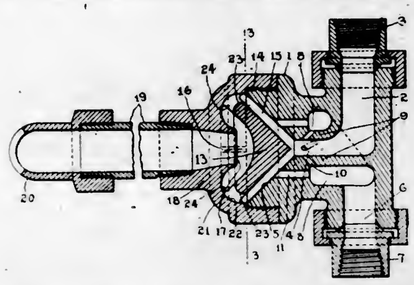
A head light screen, and in combination with a ring, of fixed downwardly projecting slats formed therewith, an inner ring in the rear of the first named ring having slit portions in its periphery for bending into lugs or ears, of

movable slats across the diameter of the inner ring having pins upon the ends thereof, and bearing means for the



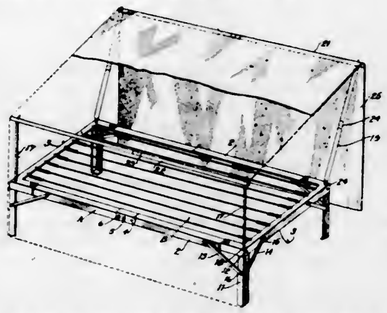
pins on the slats formed by opening said slits, and cam locking and unlocking means for operating said movable slats.

1,428,896. STEAM-ATOMIZING FUEL-OIL BURNER. JAMES MCDONALD and GEORGE P. HAYNES, New York, N. Y., assignors to Todd Shipyards Corporation, New York, N. Y., a Corporation of New York. Filed July 30, 1921. Serial No. 488,735. 6 Claims. (Cl. 158—75.)



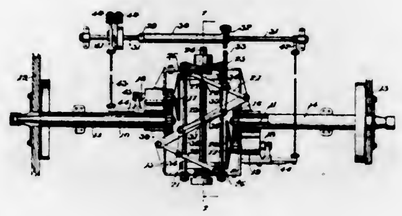
1. An atomizer comprising a body portion having an axial passage, means for introducing liquid fuel to said passage, a conoidal element opposed to said passage, means for impinging jets of fluid in angular tangents upon the liquid fuel leaving the axial passage to direct it in a whirling film over said conoidal element, and means for directing other jets of fluid against said film, to break it into tiny particles prior to delivery.

1,428,897. COMBINATION AUTO BED AND TENT. SIGFRID A. MILLER, Oakland, Calif. Filed Oct. 19, 1920. Serial No. 418,041. 4 Claims. (Cl. 5—5.)



4. A bed of the character described comprising side bars, end bars bent at each end to overlap the contiguous ends of the side bars, supporting legs pivotally connected to the end bars, a bracket secured to each of said legs, said brackets having an upwardly turned extension, and upright members having tubular lower ends adapted to extend through the end rails and engage the extensions on the brackets so as to support the upright member and secure the said legs against pivotal movement.

1,428,898. FRICTION TRANSMISSION. WILLIAM NAGLE, San Francisco, Calif. Filed July 6, 1921. Serial No. 482,677. 12 Claims. (Cl. 74—26.)



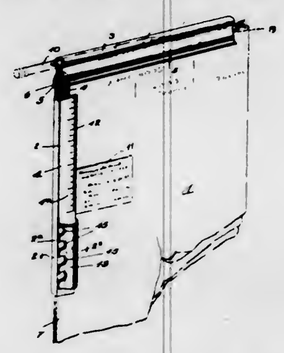
1. A variable speed vehicle axle carrying traction wheels at its opposite ends; gear means for separately driving said wheels; a single drive shaft; and front and rear sets of friction gears located in advance and in rear of the axle, and interposed between the drive shaft and the said gear means, each set being composed of two friction elements, one of which is arranged to move radially in adjustment across the center of the other friction element to vary the speed and change the direction of rotation of the latter.

1,428,899. CASTER. ALBION K. NIXON, San Francisco, Calif., assignor of one-half to Albert Casper, Vallejo, Calif. Filed July 27, 1921. Serial No. 487,935. 7 Claims. (Cl. 16—21.)



7. In a device of the character described a swivel head, a pair of bearing arms carried thereby, a bearing pin supported by the arms, a roller journaled thereon, a track ring surrounding the roller and having a track surface on its inner side for the reception of the roller, and an exterior track surface for engagement with a surface to be rolled upon, an annular recess formed in each side of the track ring, a circular plate forming a closure for each side of the track ring and adapted to be received by said recesses, said plates being eccentrically journaled upon the bearing pin, and means for maintaining said plates out of frictional engagement with the roller and the track ring.

1,428,900. NEWSPAPER CLAMP. SOLOMON OPPENHEIMER, Washington, D. C. Filed Nov. 5, 1921. Serial No. 513,070. 3 Claims. (Cl. 24—66.)



1. A device for holding a newspaper, said device comprising hingedly connected elongated clamping members, said clamping members being adapted to receive and hold adjacent angularly disposed sides of a newspaper.

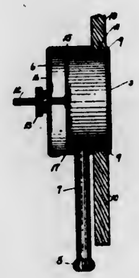
1,428,901. AUTOMOBILE RADIATOR. THOMAS F. PAYNE, Pittsburgh, Pa. Filed Apr. 18, 1918. Serial No. 229,315. 6 Claims. (Cl. 257—130.)



1. An automobile radiator, comprising upper and lower tanks and a plurality of intermediate detachable radiator units, said tanks being provided at their rear sides with inwardly directed extensions projecting beyond said radiator units and provided with horizontally aligning apertures, each of said radiator units having a plurality of narrow tubes and headers to which the tubes are integrally united, said headers being provided with horizontally projecting tubular nipples adapted to extend through said aligning apertures, said nipples being provided with lateral openings and having their outer ends threaded to receive lock nuts.

1,428,902. AUTOMOBILE CLOCK. WILSON E. PORTER, New Haven, Conn., assignor to New Haven Clock Co., New Haven, Conn., a Corporation. Filed Aug. 22, 1921. Serial No. 494,061. 1 Claim. (Cl. 58—56.)

The combination with an automobile cowl having a circular opening, of a stem-winding and stem-setting automobile clock installed in the said opening and having a cylindrical case provided upon the center of its closed back with a single, fixed threaded stud, carrying upon its flange a fixed, downwardly-extending tube for receiving and protecting the winding- and setting-stem of the clock, and furnished at its open end with a clamping flange to engage with the exposed face of the said cowl; a combined mounting-cup and dust-guard fitting over so much



of the said case as projects from the opening in the said cowl, centrally perforated for the passage through it of the said stud and formed in the lower edge of its flange with a slot for the downward passage through it of the said fixed tube; and a nut applied to the said stud for drawing the flange of the case and the open edge of the cup into engagement with the opposite faces of the cowl, and normally closing the perforation in the said combined mounting-cup and dust-guard.

1,428,903. SHIFTING HITCH. JOHN C. PORTERFIELD, St. Clairsville, Ohio. Filed July 21, 1921. Serial No. 486,357. 1 Claim. (Cl. 280—33.10.)

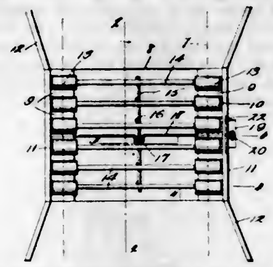


A shifting hitch adapted to be secured on a tractor comprising a bracket including a pair of vertically spaced front plates and a transverse guide rod having its bent ends secured between said plates; a clevis having a solid body with a forwardly extending tongue engaging between said plates, shoulders being formed adjacent the tongue and provided with a pair of rearwardly extending arms, a roller pivoted between said arms and normally engaging said guide rod, and means having connection with said clevis for shifting the same along said guide rods; said shoulders being adapted to transmit a forward thrust delivered on the clevis to said front plates, thereby releasing engagement between said roller and said guide rod.

1,428,904. GATE. HOMER S. RAND, Plainville, Kans. Filed Mar. 16, 1920. Serial No. 366,262. 4 Claims. (Cl. 39—6.)

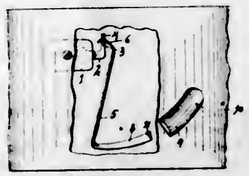
1. A stock gate comprising a pair of spaced longitudinally extending side bars having a plurality of transverse

upwardly opening bearings therein, the bearings in said bars being oppositely disposed a roller mounted in each



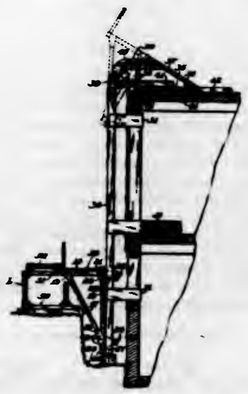
bearing to be partially exposed to form treads, and a plank connecting each pair of oppositely disposed rollers.

1,428,905. INDICATOR OF SPEED FOR CENTRIFUGAL SEPARATORS. LUDVIK RASCH, Christiania, Norway. Filed Feb. 26, 1920. Serial No. 361,476. 2 Claims. (Cl. 264—14.)



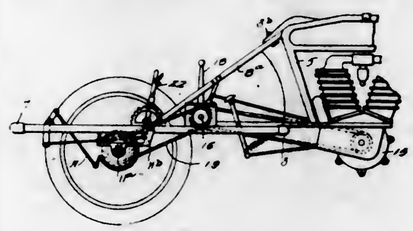
1. In a speed indicator for a cream separator, a bearing consisting of an arm fastened to the inner side of the wall of the casing by means of a suitable block and provided with a sharp edge at a right angle to the casing, a tongue projecting upwards from the edge, a wing, having a saddle resting upon the said edge and provided with an aperture for receiving the mentioned tongue, and arranged so as to oscillate in the space between the drum and the wall of the casing, an arc fastened to the lower end of the wing, and a depression forming an opening arranged in the wall of the casing so as to allow the arc to swing outside the casing.

1,428,906. HOISTING APPARATUS. ALVIN C. RASMUSSEN and CARL G. SCHMID, Indianapolis, Ind., assignors to Insley Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed July 11, 1921. Serial No. 483,704. 6 Claims. (Cl. 214—121.)



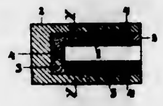
1. As an article of manufacture, a hoisting platform provided at its upper and lower ends with laterally projected guide-engaging members, said guide engaging members at the lower end being arranged in pairs, one of each pair being normally at a higher level than the other of said pair, and the members of each pair being laterally spaced for the reception of the guide member between the same.

1,428,907. MOTOR VEHICLE. CLARENCE J. REIGH, Juniata, Pa. Filed Apr. 16, 1920. Serial No. 374,460. 1 Claim. (Cl. 180—27.)



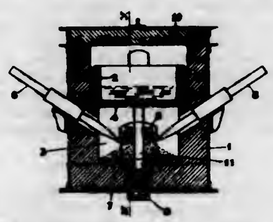
In combination with a motor cycle frame, a supplemental frame on which said motor cycle frame rests extending rearwardly therefrom, rear wheels, an axle for said wheels on said supplemental frame, a brace means extending below said frames and journaling the axle below said frames, said brace means being connected to the motor cycle frame at a distance above the supplemental frame, means on the supplemental frame driven by the rear wheel drive of the motor cycle, means to drive said axle from said means, a carrier body on the supplemental frame, and said brace means extending through the floor of said carrier body.

1,428,908. ELECTRIC FURNACE. IVAR RENNERFELT, Djursholm, Sweden. Filed Mar. 3, 1921. Serial No. 449,388. 2 Claims. (Cl. 204—64.)



1. In an electric furnace, the combination of an elongated crucible with a plurality of strings of carbonaceous resistance material located lengthwise along the crucible, electrically insulating material separating the strings from each other and means for conducting electric energy to the resistances.

1,428,909. ELECTRIC FURNACE. IVAR RENNERFELT, Djursholm, Sweden. Filed Aug. 12, 1921. Serial No. 491,815. 4 Claims. (Cl. 204—64.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

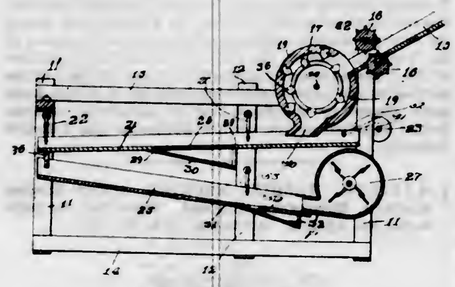


1. In an electric furnace having an upper chamber, a lower chamber, with poorly heat conducting walls, a heat conducting partition between said chambers and means for heating the lower chamber electrically the combination with each other of at least two electrodes projecting into the lower chamber, for the purpose of generating an electric arc in the lower chamber.

1,428,910. METHOD OF OPERATING ELECTRIC FURNACES. IVAR RENNERFELT, Djursholm, Sweden. Filed Aug. 12, 1921. Serial No. 491,837. 3 Claims. (Cl. 204—64.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

3. The method of operating an electric furnace consisting in supplying first two-phase current heating a charge by means of freeburning arcs and then supplying three-phase current heating the charge by means of arcs in contact with the surface of the charge and changing the relative distance between the arcs.

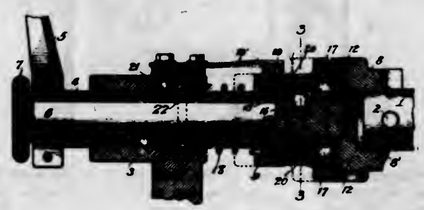
1,428,911. THRASHING MACHINE. JAMES E. SANDERS, Chattanooga, Tenn. Filed Jan 15, 1920. Serial No. 351,714. 1 Claim. (Cl. 130—24.)



In a device of the class described a frame; a first screen shoe, all portions of which lie in a common plane, the shoe comprising imperforate end portions and a foraminous intermediate portion, the shoe being downwardly inclined toward one end of the frame; means for suspending the shoe from the frame for longitudinal swinging movement; means for imparting longitudinal swinging movement to the shoe; a second screen shoe suspended from the frame and located below the first shoe, the second shoe being downwardly inclined toward the other end of the frame and being provided with a foraminous bottom portion and with an outlet; a blower discharging into the second shoe toward the first specified end of the frame, the outlet being located between the blower and the foraminous bottom portion of the second shoe, one end of the second shoe underriding the blower; means for connecting the second shoe to the first shoe to move therewith; and a guard carried by the first shoe and receiving material from the foraminous intermediate portion of the first shoe, the guard discharging on the second shoe independently of the foraminous bottom portion of the second shoe and being located directly below the foraminous intermediate portion of the first shoe and the foraminous bottom portion of the second shoe, thereby to limit updraft from the blower through the foraminous intermediate portion of the first shoe, and to promote a down draft through the foraminous bottom portion of the second shoe.

1,428,912. ENGINE STARTER. JOHN SCHAEFER, Chicago, Ill., assignor of one-half to William Steele, Chicago, Ill. Filed Jan. 30, 1922. Serial No. 532,540. 4 Claims. (Cl. 123—185.)

4. An engine starting mechanism, comprising a tubular shaft carrying a manual actuating means, a central shaft arranged in said tubular shaft and having an end formed for operative engagement in one direction with an engine shaft, a journal bearing supporting the shafts in a rotary and longitudinally adjustable manner, a clutch collar slidingly mounted on the tubular shaft and formed in its interior with an annular channel, the inner ends of the clutch collar and central shaft having coacting cam formations adapted to impart longitudinal movement to the clutch collar in a reverse rotation of the central shaft, the tubular shaft having a radial opening in its wall, the central shaft having a peripheral recess in line with said opening, clutch member movable in said opening and adapted in one position of the clutch collar to be held in positive engagement with the recess in the central shaft and in the other position of the clutch collar to move into the annular channel of said collar and out of positive engagement in said recess, a spring tending to force said clutch collar in an inward direction, and a pawl adapted to engage the tubular shaft and hold the parts in their forward position.



1,428,913. AEROPLANE MOTOR FUEL. WALTER T. SCHREIBER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 25, 1918, Serial No. 241,794. Renewed Aug. 11, 1919. Serial No. 316,838. 5 Claims. (Cl. 44—9.)

5. A fuel, the constituents of which are homogeneously blended and will not separate out at low temperatures, comprising a light petroleum distillate, a lower alcohol, benzol, and at least 4 per cent of a fourth constituent which has the property of high volatility and of preventing the separation of the benzol.

1,428,914. OPHTHALMIC MOUNTING. ELMER L. SCHUMACHER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Sept. 5, 1919. Serial No. 321,928. 7 Claims. (Cl. 88—47.)

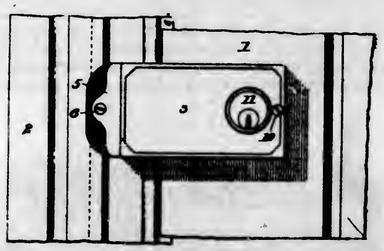


1. The process of forming a combination metallic frame consisting in forming a metallic frame with a lens receiving groove, coating the frame with a non-metallic material, and subsequently removing the material from the groove of the frame to form a lens receiving groove of standard dimensions.

1,428,915. LOCK. PAUL SEWERIN, New York, N. Y. Filed Jan. 17, 1921. Serial No. 457,787. 1 Claim. (Cl. 70—46.)

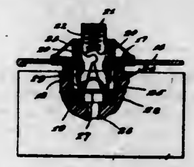
The combination with a lock casing, of a bolt therein, separate key-actuated cylinder locks to be arranged on opposite faces of a door, one of said locks being mounted in the casing and the other connected to said casing but spaced therefrom, a slide operatively connected to said

bolt, a tumbler carried by said slide, roll backs corresponding to said locks and mounted in the casing so that either of them may actuate said tumbler, one of said roll backs



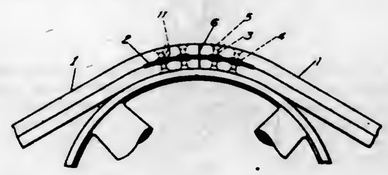
being directly connected to the lock which is mounted in the casing, and a connecting bar extending between the other roll back and the lock which is spaced from the casing.

1,428,916. DETACHABLE TRAY FOR HIGH CHAIRS. CLORA J. SNIDEMAN, Wabash, Ind., assignor to Wabash Sanitary Company, Wabash, Ind., a Corporation of Indiana. Filed Apr. 15, 1921. Serial No. 461,577. 4 Claims. (Cl. 155—127.)



1. In combination, a high chair having side arms, a tray having portions which overlie said side arms and are detachably fastened thereto, and fastening means at opposite edges of the tray for attaching said tray to said side arms, each of said fastening means including a cup countersunk in each of said side arms and held against lateral displacement thereby and a spring-pressed plate mounted in said cup, and a finger engaged member which cooperates with said cup and extends through the tray and projects above the tray in a position to be engaged by the fingers and for releasing the fastening device to permit detaching of the tray.

1,428,917. BELT SPLICE. FRANK F. SNYDER, Torrance, Calif. Filed Apr. 10, 1922. Serial No. 550,980. 2 Claims. (Cl. 24—38.)



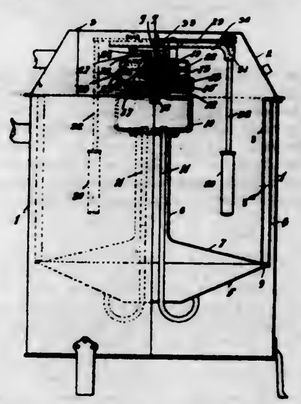
1. In a belt of the class described, a belt-splice with two ends joined together, in combination with a curved plate spliced between the two ends of the said belt, pins positioned through the said two fitted ends of the belt and the plate, riveted heads integral with both outer ends of the said pins flush with the outer surface of the belt, shoulders positioned on the said plate and extending into the said belt-splice adapted to receive the said pins, as set forth.

1,428,918. MOUSE AND RAT TRAP. EDWARD G. SPIETH, Amherst, Nebr. Filed Nov. 8, 1921. Serial No. 513,629. 2 Claims. (Cl. 43—69.)



1. An animal trap comprising a receptacle having a removable cover, a tiltable platform horizontally disposed in an opening of the cover, a T-shaped member disposed beneath said platform, the horizontal portion of said T-shaped member being provided with flattening portions, integral tongues struck out from the platform and engaging over the flattened portions of the horizontal portion of the T-shaped member, the ends of the horizontal portions of the T-shaped member extending beyond the sides of the opening in the cover and having bearings in struck down loops carried by the cover and an adjustable counterweight threaded on the vertical portion of the T-shaped member.

1,428,919. WASHING MACHINE. ALBERT EDWARD STATHAM, Birmingham, England. Filed Dec. 19, 1921. Serial No. 523,554. 3 Claims. (Cl. 68—37.)

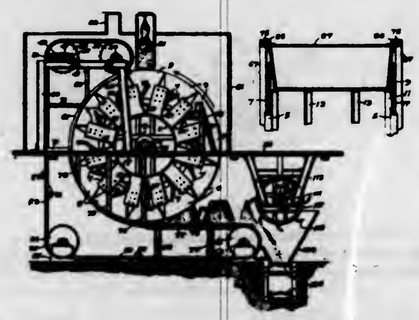


1. A washing machine or boiler comprising a container for the water and articles to be washed or boiled, a stirrer working in the liquid, a steam turbine for operating the stirrer, a steam chest located under the turbine casing, and a hollow cone or tubular member located centrally of the casing and surmounted by the said steam chest, substantially as set forth.

1,428,920. APPARATUS FOR MANUFACTURING ACID PHOSPHATE OR SUPERPHOSPHATE. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1921. Serial No. 462,758. 17 Claims. (Cl. 71—1.)

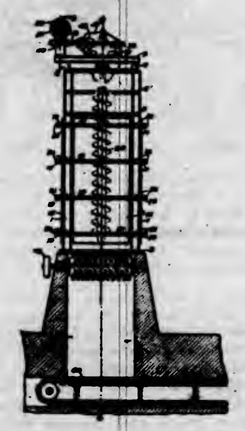
2. An apparatus for manufacturing acid phosphate, comprising, in combination, a series of containers for

receiving a semi-liquid mixture of ground phosphate rock and acid, means for advancing the containers continuously



with a sufficient length of travel to allow the mixture to solidify during transit, and means for discharging the solidified mixture from the container during transit.

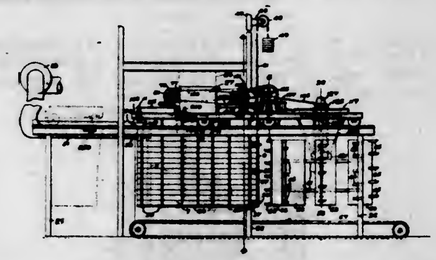
1,428,921. APPARATUS FOR MANUFACTURING ACID PHOSPHATE OR SUPERPHOSPHATE. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 26, 1921. Serial No. 464,649. 21 Claims. (Cl. 71—1.)



2. An apparatus for manufacturing acid phosphate, comprising, in combination, a den, means to admit a mixture of ground phosphate rock and acid into the upper end of the den, a disintegrator at the lower end of the den, and means for feeding the materials, after change from molten to spongy mass form, to the disintegrator, said feeding means having provision for sustaining the materials above the disintegrator.

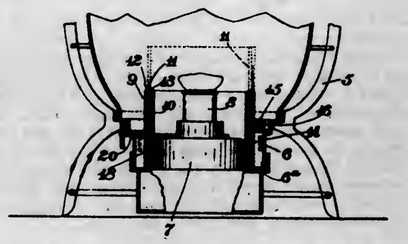
1,428,922. APPARATUS FOR MANUFACTURING ACID PHOSPHATE OR SUPERPHOSPHATE. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed May 24, 1921. Serial No. 472,174. 36 Claims. (Cl. 71—1.)

5. An apparatus for manufacturing acid phosphate, comprising, in combination, a den having a fixed floor and rear wall, a movable roof and side walls, and means to move the roof and side walls away from the floor and rear



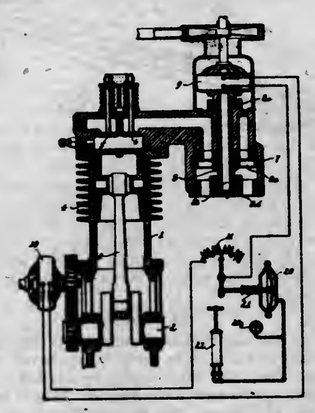
wall to expose a block of acid phosphate formed within them, a disintegrator, and means to feed the disintegrator toward the rear wall of the den to excavate the block.

1,428,923. LANTERN. MERRILL H. TERRY, Columbus, Ohio. Filed July 5, 1921. Serial No. 482,409. 2 Claims. (Cl. 240—39.)



1. In a lantern, the combination with the fount receiving ring, of a pair of spaced concentric cylinders mounted on said ring, a cylindrical color screen between said concentric cylinders, a stationary wiper cylinder of fabric for the inner side of said color screen and means for raising and lowering the color screen in the direction of its axis.

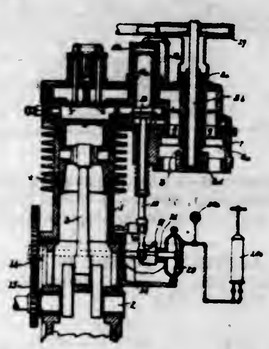
1,428,924. SUPERCHARGER FOR INTERNAL-COMBUSTION ENGINES. CARL C. THOMAS, Baltimore, Md. Filed June 29, 1920. Serial No. 392,795. 2 Claims. (Cl. 60—13.)



1. The combination of a supercharger, an engine having an exhaust-driven turbine arranged to drive that super-

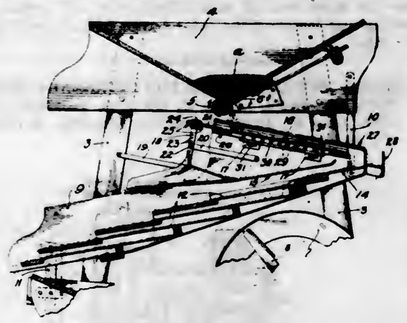
charger, an electric motor also arranged to drive the supercharger, and means controlled by the atmospheric pressure for automatically regulating the action of the motor.

1,428,925. SUPERCHARGER FOR INTERNAL-COMBUSTION ENGINES. CARL C. THOMAS, Baltimore, Md. Filed June 29, 1920. Serial No. 392,797. 4 Claims. (Cl. 60—13.)



1. The combination with an internal combustion engine provided with a cylinder and with means for the exhaust of products of combustion from that cylinder, of a turbine, a duct connecting the said cylinder to the said turbine, means controlling flow through said duct arranged to permit flow from said cylinder direct to the turbine during the early portion of the working stroke, a super-charger driven by said turbine, and means controlled by varying atmospheric pressure arranged to regulate flow through said duct to the turbine.

1,428,926. GRAIN SEPARATOR. PATRICK H. VAUGHN, Morris, Minn. Filed Mar. 1, 1920. Serial No. 362,367. 4 Claims. (Cl. 130—15.)



1. In a grain separator, the combination with a feed-hopper, of a sieve-equipped shoe, means for vibrating the shoe, a screening sieve mounted in the shoe between the upper sieve of said shoe and the hopper, and means for vibrating the screening sieve from the shoe either in the same direction therewith or in an opposite direction in respect thereto.

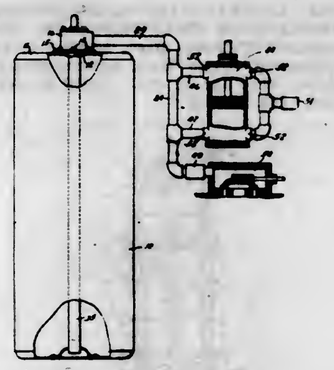
1,428,927. INTERMITTENT-FEEDING MECHANISM. MATTHIAS J. VINIK, New York, N. Y. Original application filed Jan. 29, 1914, Serial No. 815,162. Divided and this application filed Nov. 9, 1917. Serial No. 201,136. 17 Claims. (Cl. 88—18.3.)

1. A moving picture machine provided with an intermittent feeding device for the film, comprising a continuously driven shaft, a shaft to be rotated intermittently, a star wheel secured on one of the said shafts and having, at least, five radial slots, a star wheel pin rotating with



the other shaft, and means moving one into and out of the path of the other to connect and disconnect the star wheel and the pin.

1,428,928. AUTOMATIC SAFETY VALVE. WILLIAM B. SMITH WHALEY, Malden, Mass., assignor to American Whaley Engine Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 5, 1917. Serial No. 205,706. 9 Claims. (Cl. 137—21.)

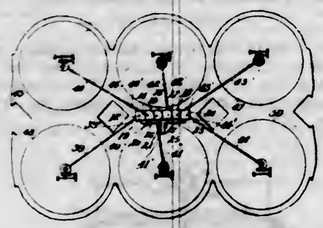


9. In a valve, a casing having a chamber therein provided with a set of valve ports communicating therewith and surrounded by valve seats, a pair of adjacent valves movable in the same direction to uncover said seats surrounding said ports communicating with said chamber for admitting and delivering a gas to and from said chamber at points distant one from the other, and means for admitting a gas to said chamber from a source of supply.

1,428,929. DEWATERING AND SETTLING TANK FEEDER. JOSEPH R. WILKINSON, ENOCH A. BARNARD, and LIONEL E. BOOTH, Anaconda, Mont., assignors of forty-two and one-half per cent to said Wilkinson, forty-two and one-half per cent to said Barnard, and fifteen per cent to said Booth. Filed May 25, 1917. Serial No. 170,940. 2 Claims. (Cl. 183—3.)

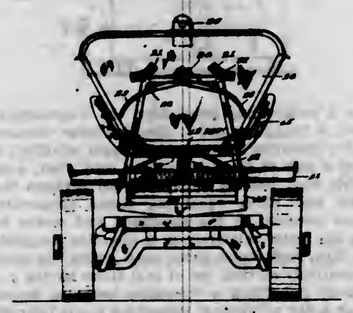
1. In apparatus for ore concentration, the combination of a plurality of settling tanks and apparatus for feeding pulp thereto free of gases by means of hydrostatic pressure, said means comprising a vessel and partitions for dividing it into a plurality of compartments, the said partitions terminating below the upper edge of the vessel, means for distributing the pulp into said compartments, an outlet at the bottom of each compartment, means for normally maintaining in one of the compartments a substantially constant level, means for regulating the ratio

of flow of pulp into the other compartments and the flow out through the outlets at the bottom to maintain an



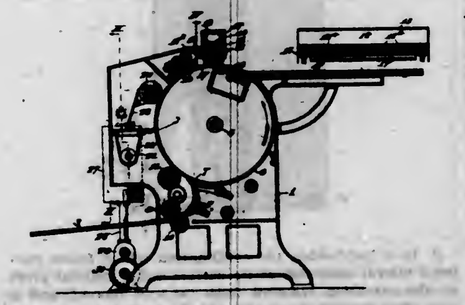
overflow of pulp into the constant level compartment from the other compartments and connections between the different outlets and the different settling tanks.

1,428,930. MULTIPLE-SECTION DUMP BODY. HAROLD A. WORCESTER, Troy, Ohio, assignor to Insley Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed Dec. 2, 1919. Serial No. 341,966. 4 Claims. (Cl. 298—10.)



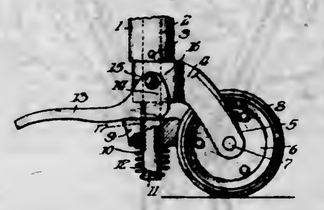
1. In a dump-body vehicle, the combination with the vehicle frame, and a rolling dump body, of a pair of lock-bolts arranged to act along lines inclined both to the vertical and horizontal, and means coacting with said bolts to connect the rolling body with the main frame to resist both vertical and rolling displacement of the rolling body upon the main frame.

1,428,931. MEANS FOR PREVENTING OFFSET FROM FRESHLY-PRINTED SHEETS. HOWARD M. BARBER, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 27, 1920. Serial No. 361,798. 7 Claims. (Cl. 101—416.)



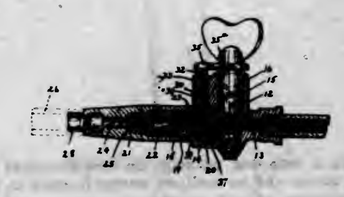
1. An enclosed casing, a rotary cylinder for passing a freshly printed sheet therethrough, a talc powder feeding roll spaced from said cylinder, and a scraper engaging said roll for distributing the powder along the sheet as it passes between the roll and cylinder.

1,428,932. CASTER LOCK. MATTHEW F. BAYER, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Feb. 5, 1920. Serial No. 356,885. 16 Claims. (Cl. 16—33.)



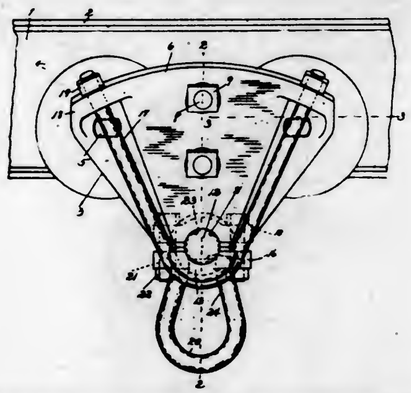
15. In a device of the class described, the combination of an upright stem, a bracket having a hub at one end pivoted on the stem and a caster wheel rotatably mounted at the other end, a collar on the stem and movable axially thereof to engage the periphery of the caster wheel, a spring on the stem exerting a tension to hold the collar away from the caster wheel and a lever having a bifurcated end, the two parts of which are pivoted at opposite sides of the bracket hub and provided with cam faces engaging the collar for moving same axially of the stem into engagement with the periphery of the caster wheel.

1,428,933. GAS COCK. JOHN E. BEAN, Jr., Merrimac, Mass. Filed Feb. 16, 1921. Serial No. 445,387. 3 Claims. (Cl. 137—69.)



3. In combination, a gas-cock body having a projecting externally threaded outlet nipple, and an annular groove surrounding the inner portion of the nipple; an internally threaded sleeve adapted to be secured upon the nipple and to enter said groove, the sleeve forming a part of a gas-delivering conduit; a plug valve controlling the gas duct through the body; and safety means embodied in a cam-shaped ear projecting laterally from the valve, a spring-pressed detent movable in the body, and normally projected into the path of said ear, said detent being adapted to enter the annular groove and engage an orifice in the sleeve, and an annular spring-pressed stop movable in said groove and normally in the path of the detent, the arrangement being such that when the sleeve is in place on the nipple, and the valve is open, the sleeve is locked by the cam-shaped valve ear and the detent, and when the valve is closed, the detent assumes its normal position, engages the valve arm to lock the valve in its closed position, and releases the sleeve to permit removal of the latter from the nipple.

1,428,934. TROLLEY. WILLIAM E. BEE and WILLIAM E. SIMPSON, Detroit, Mich., assignors to Palmer-Bee Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 28, 1921. Serial No. 448,472. 15 Claims. (Cl. 105—154.)



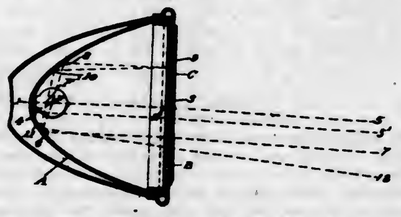
3. In a trolley, the combination with a frame having a bearing, of a member mounted in said bearing, and a rod upon said frame and engaging said bearing, constituting a reinforcement therefor.

1,428,935. REFLECTING TELESCOPE. LOUIS BELL, West Newton, Mass. Filed Aug. 3, 1918. Serial No. 248,107. 7 Claims. (Cl. 88—32.)



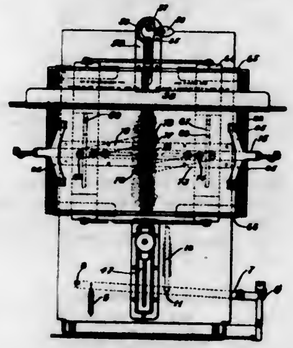
1. In a reflecting telescope an unsymmetrical paraboloidal mirror and an auxiliary mirror inclined to the axis of collimation of said unsymmetrical mirror and capable of rotation in said axis.

1,428,936. PROJECTION AND DISTRIBUTION OF LIGHT. LOUIS BELL, West Newton, Mass., assignor to Edward N. Goding, trustee, Newton, Mass. Filed Oct. 3, 1919. Serial No. 328,146. 3 Claims. (Cl. 240—48.4.)



1. In a light projector, a substantially parabolic reflector having a source of light in its focus, a transparent lens for the front of said reflector having curvature about a vertical axis and an inwardly faced reflecting surface on the outside of said lens in the upper face thereof for distributive dispersion of the reflected rays.

1,428,937. BOOK-HOLDING COPYHOLDER. THOMAS H. BISHOP, Rochester, N. Y., assignor to The Line-A-Time Mfg. Co., Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 16, 1920. Serial No. 417,374. 8 Claims. (Cl. (Cl. 120—29.)



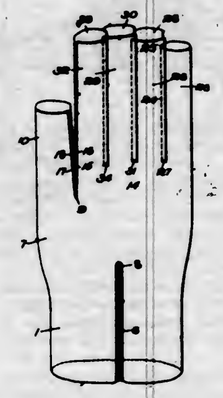
4. In a bookholding copyholder, the combination with a frame, a copyplate and a line indicator thereon and means for operating one of said elements relatively to the other, of a pair of standards on the copy plate, a pair of extensible book holding clips arranged between the line indicator and plate, equalising beams supporting the clips and mounted on the standards, and means for adjusting the latter relatively in a direction longitudinally of the clips, comprising slides upon which the standards are respectively carried, one of said slides having a coarse adjustment embodying a releasable clamping means and the other a fine adjustment embodying a cam lever pivoted to the plate and cooperating with such slide.

1,428,938. COPYHOLDER. THOMAS H. BISHOP, Rochester, N. Y., assignor to The Line-A-Time Co., Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 16, 1920. Serial No. 417,375. 6 Claims. (Cl. 120—29.)



3. In a copyholder, the combination wth a frame having a lateral extension at its bottom and a vertical pivot on the extension removed from the end thereof, and a copy plate movable on the frame, of a two-part transverse lever carried by the frame to actuate the copy plate, the parts of the lever being pivoted together on a vertical axis coincident with the aforesaid pivot, a side arm for supporting the frame disposed across the end of the extension on the frame and itself provided with an offset extension turning on the pivot of the frame extension to permit the side arm to fold across the frame, and an operating lever pivoted to the side arm and operatively connected to the actuating lever.

1,428,939. KNITTED GLOVE AND METHOD OF MAKING THE SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed May 26, 1919. Serial No. 299,789. 23 Claims. (Cl. 66—4.)



2. A knitted glove blank having a wrist including interrupted circular series of loops connected by floating yarns.

1,428,940. ORNAMENTED CANDLE. JESSE E. BRINKER and CLAUDE P. MCNEIL, Whiting, Ind., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed July 20, 1921. Serial No. 486,046. 10 Claims. (Cl. 87—21.)



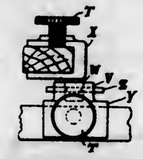
4. The method of ornamenting candles which comprises immersing a candle in a molten colored dip for a period such that the coating of dip slips on withdrawal of the candle, immersing the dipped candle into a second molten colored dip and withdrawing it therefrom.

1,428,941. CONCRETE MIXER. THOMAS BYRNE, Jr., Chicago, Ill. Filed Dec. 27, 1920. Serial No. 433,180. 3 Claims. (Cl. 214—44.)



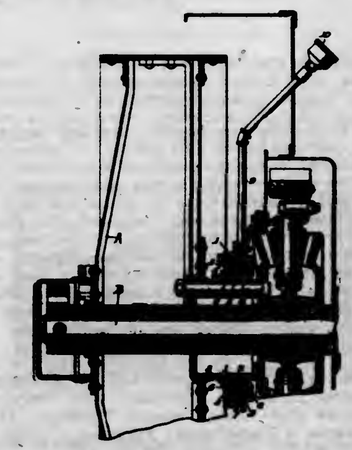
1. In a portable concrete mixing apparatus adapted for use in parallelism with and closely adjacent the desired line of deposit of the mixed material, a framing, a mixing drum, a track above said drum adapted to support material supplying cars, an inclined receiving track extending from one end of said first named track, and an inclined discharge track extending from the opposite end of said first named track, all carried by said frame whereby to be moved therewith to different points along the line of the work, for the purpose specified.

1,428,942. BATTEN MOLD PARTICULARLY FOR USE IN SHIPBUILDING. ISAIAH CLERVE GORDON COOPER, Newcastle-upon-Tyne, England. Filed Feb. 17, 1920. Serial No. 359,312. 3 Claims. (Cl. 33—176.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. As an article of manufacture, a batten mold comprising in combination more than five battens, and one less hinge pivot element than there are battens, means to clamp said hinge pivot elements adjustably on a pair of battens.

1,428,943. SEALING DEVICE FOR ROTARY STRUCTURES. DAVID P. DAVIES, Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation. Filed May 23, 1921. Serial No. 471,620. 5 Claims. (Cl. 64—22.)

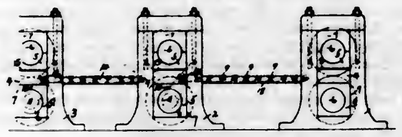


1. The combination, with a rotary element, of a ring having radial channels and a grease groove communicat-

ing with said channels, and a sealing ring mounted in said ring.

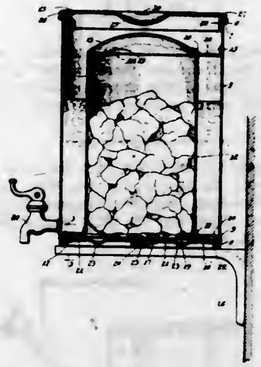
2. The combination, with a rotary element, of a ring surrounding the same, said ring embodying a grease groove, a sealing ring in said ring, means within which said first mentioned ring is mounted, and means for supplying grease thereto to form sealing means.

1,428,944. CONTINUOUS ROLLING MILL. HENRY J. DAVIS, Niles, Ohio. Filed Feb. 7, 1921. Serial No. 442,981. 1 Claim. (Cl. 80—56.)



In a device of the class described, a continuous rolling mill, a chuck between the boxes carrying the rolls for the purpose of spacing said rolls and giving support to the ends of a drive journal which drives a conveyor, a spacer between said chuck and the upper boxes, shims positioned between the channel in which the boxes are positioned and the boxing, substantially as described for the purpose set forth.

1,428,945. WATER COOLER. GEORGE F. DENNE, Chicago, Ill. Filed May 16, 1921. Serial No. 469,814. 4 Claims. (Cl. 220—13.)

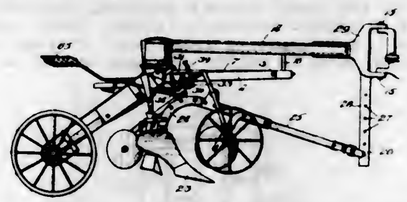


4. A water cooler comprising an outer shell open at its top, an apertured bottom wall therefor, an ice container shell closed at its top and positioned with its lower edge around the aperture in said bottom wall, the lower open edge of said ice container and the bottom wall being disposed in substantially the same horizontal plane whereby a water chamber the full height of said ice container is provided outside the latter, a cock communicating with the lower portion of the water chamber, a loose cover closing the top of the water chamber, and a secured closure for the lower open end of said ice container and cooperating with said bottom wall to close the same.

1,428,946. MANUFACTURE OF CALCIUM ARSENATE. CROMWELL B. DICKEY, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 7, 1920. Serial No. 401,980. 9 Claims. (Cl. 23—13.)

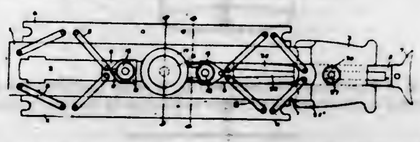
2. The process of producing calcium arsenate largely or substantially free from soluble arsenic compounds which consists in producing a reaction between the soluble arsenic compound and calcium hydrate in a suspension in water containing 1 to 5% of salt.

1,428,947. TILLAGE IMPLEMENT. HARRY S. DICKINSON, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Dec. 9, 1919. Serial No. 343,674. 26 Claims. (Cl. 97—36.)



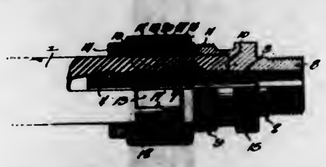
1. In an implement, the combination of a main frame, wheels supporting the main frame, a subframe pivoted to the main frame, means for connecting the subframe to an overlapping portion of a tractor, soil working units connected to the main frame, and means for concurrently lowering said units and raising the subframe with respect to the main frame, substantially as described.

1,428,948. GAUGE, MORE PARTICULARLY FOR USE FOR GAUGING TAPERED HOLES. BENJAMIN DRAPER, Liverpool, England. Filed Nov. 1, 1919. Serial No. 335,088. 3 Claims. (Cl. 33—98.)



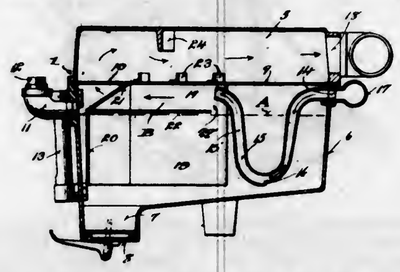
1. An instrument for purposes as specified, comprising a stationary part, and a movable part operating therein, a movable gauge part connected with said stationary part and said movable part, and adapted to be operated by said movable part in such a manner as to be used in connection with conical parts of machinery or work; substantially as herein set forth.

1,428,949. HOSE COUPLING. JOSEPH P. EASTMAN, Manitowoc, Wis., assignor to Eastman Manufacturing Company, Manitowoc, Wis., a Corporation. Filed Aug. 1, 1919. Serial No. 314,650. 2 Claims. (Cl. 285—86.)



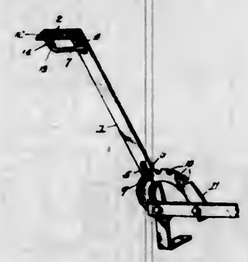
1. The combination with a flexible element, of a sleeve disposed therein, said sleeve having an outwardly projecting ridge to bulge out the outer surface of the element and having one end extending outwardly beyond the end of the element, a coupling member disposed on said sleeve, and extending over the end of the element and having an annular shoulder abutting the end of said element, a bendable compression band on said element on the other side of the bulge from said coupling member, one end portion of said band having a plurality of kerfs, and a clamping member disposed around the element and over the band, means for threadedly engaging said clamping member with the coupling member, said clamping member having an inclined shoulder for engaging the compression band to bend the same into the tubular element when said clamping element is moved toward the coupling member, whereby said shoulder produces endwise compression on the end of the flexible element and forces the same into firm contact with the sleeve and coupling member.

1,428,950. APPARATUS FOR CLEANING AIR AND OTHER GASES. HENRY N. EDENS, New Holstein, Wis. Filed Oct. 20, 1919. Serial No. 331,938. 6 Claims. (Cl. 183—8.)



1. An apparatus for cleaning gas comprising a closed casing, one portion forming a liquid reservoir, means for connecting the portion of the casing above the liquid level with vacuum creating means, and a gas passageway in said casing and having a return bend therein below said liquid level, a liquid inlet port opening into said passageway through the outer wall of said return bend, one end of the passageway being in communication with a source of gas supply, the other end being above the liquid level and opening into that portion of the casing thereabove.

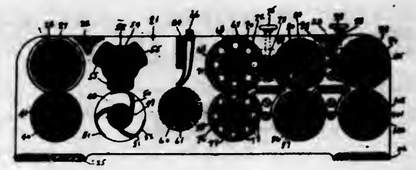
1,428,951. HAND LEVER. CONRAD ESPING, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Nov. 4, 1919. Serial No. 335,725. 7 Claims. (Cl. 74—39.)



1. A hand lever comprising a lever bar having a laterally projecting hand piece provided with an opening therethrough, a latch rod having a lateral hand piece provided with a bent end insertable through the hole in the lever hand piece, and a spring surrounding the bent end of the latch rod serving to bias it to a latched position.

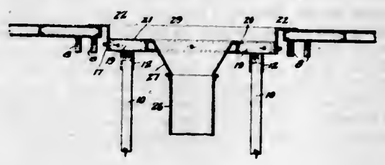
1,428,952. BLANK-CUTTING MACHINE. WILLIAM FUHR, Chicago, Ill. Filed Jan. 23, 1922. Serial No. 531,045. 13 Claims. (Cl. 93—58.)

1. In a cutting machine of the character described, the combination of rotary cutting rolls comprising a series of blades removably secured to the face of one of said rolls, acting to cut interconnected blanks from stock fed continuously therebetween, cutting-off rolls beyond said cutting roll for severing the blanks from each other, and



blank cleaning mechanism comprising a rotary brush operating on said blanks subsequent to the cutting operation.

1,428,953. FLOOR FORM. LESLIE H. GARLINGHOUSE, Aspinwall, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed July 31, 1920. Serial No. 400,465. 16 Claims. (Cl. 25—131.5.)

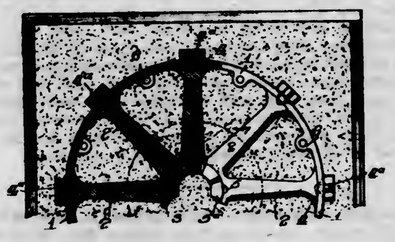


5. In floor form apparatus for column supported floors and the like, the combination of a column form, a drop head form, and a floor form part proper, all supported for independent taking down.

9. In floor form apparatus for column supported floors and the like, the combination of a floor form proper, a drop head form, and filler means around the drop head form detachably secured thereto for vertical compensating adjustment.

12. In floor form apparatus for column supported floors and the like, the combination of a pair of substantially counterpart panels, each consisting of a frame of commercial sections a portion of which is bent to provide a semi-circular recess and a sheet metal plate therefor having a corresponding recess.

1,428,954. WHEEL AND PROCESS OF MAKING SAME. WILLIAM R. GILMORE, Benton Harbor, Mich., assignor to Superior Steel Castings Company, Benton Harbor, Mich., a Corporation of Michigan. Filed Oct. 10, 1919. Serial No. 329,826. 5 Claims. (Cl. 22—178.)



1. The process of forming cast metal wheels which consist in casting the spokes, rim and hub integral the spokes and rim being cast solid and at the time of casting,

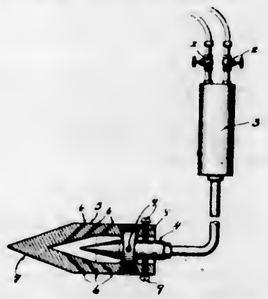
forming separated recesses in the exterior of the rim at the points where the spokes connect with said rim, so as to reduce the internal stresses at these points.

1,428,955. GLASS-FASTENING DEVICE. MEYER GROSSMAN, Philadelphia, Pa. Filed Jan. 19, 1921. Serial No. 438,325. 3 Claims. (Cl. 85—1.)



1. A repairing device for fractured glass panes comprising a relatively thin flat element of sufficient cross-sectional area to resist the tension necessarily applied thereto in use to perform its function, whereby one end of said element may be inserted through the fissure of a fractured pane without unduly spacing the edges of the fissure and with the ends of the element protruding beyond the sides of the pane, the entering end of the element being free from projections or extensions and formed to enter the fissure with a minimum amount of resistance, a clamping device to be applied over the entering end of the element to engage one side of the pane and overlap the margins of the fissure, a separable means to engage the entering end of the element to prevent withdrawal of the element from its associated clamping device, a second clamping device applicable over the following end of the element to engage the other side of the pane and overlap the margins of the fissure, and a means cooperating with said following end of the element to tension the same and thus bind the pane between the clamping devices.

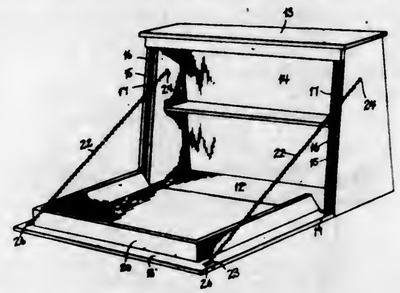
1,428,956. SOLDERING-IRON ATTACHMENT FOR ACETYLENE-TORCH HEADS. WILLIAM C. HACKMAN, Milwaukee, Wis., assignor of one-half to Max Zinke, Milwaukee, Wis. Filed Aug. 12, 1921. Serial No. 491,756. 1 Claim. (Cl. 158—26.)



A soldering iron attachment for acetylene torch heads comprising a torch head, a forwardly vented shell iron chambered and having a tapered nose fitted over the nose of said torch head, said nose terminating adjacent the forward end of the chamber for introducing air to the soldering iron chamber about the torch head, said shell having a thick wall with two pairs of openings therein, each pair of openings lying in a different plane, and a bolt in each of said openings, whereby said shell may be adjusted in all directions with respect to said head.

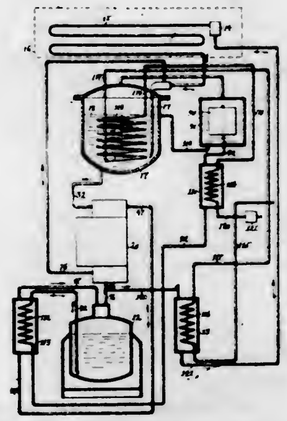
1,428,957. COMBINED WALL CABINET AND DRESSING TRAY. EDWIN O. HALL, Bangor, Me. Filed May 29, 1920. Serial No. 385,244. 1 Claim. (Cl. 45—51.)

A combined wall cabinet and dressing tray comprising a body adapted to be hung upon a wall and including bottom, back, end and top members, the bottom, end and top members forming an open front, a cover member formed to close said front and hinged to the said bottom member, means being provided for supporting the cover member flush with the bottom member, and a three-sided curb attached to the cover member and obstructing the outer edge and ends of the latter leaving the inner edge unobstructed, the said bottom and cover members constituting the bottom of a dressing tray, the back and end



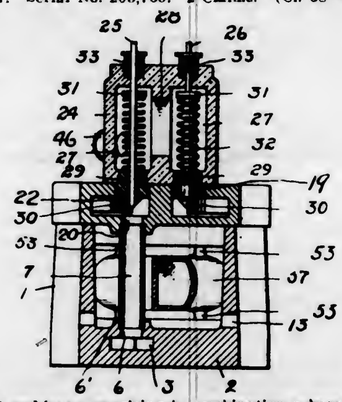
members and the three-sided curb collectively constituting a confining wall surrounding the tray bottom when the cover member is flush with the bottom member, the cover member and curb being adapted to support and confine a baby in a recumbent position, and the bottom member being adapted to support toilet articles beside the baby, when the cover member is lowered, the said curb being formed to enter the body member when the cover member is raised to close the said front.

1,428,958. REFRIGERATING APPARATUS. CHARLES W. HAPGOOD, Boston, Mass. Filed Nov. 18, 1918. Serial No. 262,948. 10 Claims. (Cl. 62—119.)



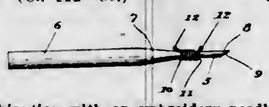
1. In a refrigerating apparatus, in combination, a still, an absorber, a condenser, and an expansion chamber connected together for the flow of refrigerant from the still through the condenser and expansion chamber into the absorber, means for connecting the still with the absorber to permit the weak liquor in the still to be forced into the absorber by the gas pressure in the still, a pump having a liquid inlet connected with said absorber for the flow of strong liquor to the pump, a liquid outlet connected with the still, a gas inlet connected with the still, and a gas outlet connected with the absorber for the flow of gas from the pump into the absorber to admix with the weak liquor therein.

1,428,959. SADIRON. LOUIS HOFFMAN, Duluth, Minn., assignor, by mesne assignments, to Steam Pressing Iron Company, a Corporation of Delaware. Filed Nov. 24, 1917. Serial No. 203,765. 2 Claims. (Cl. 68—26.)



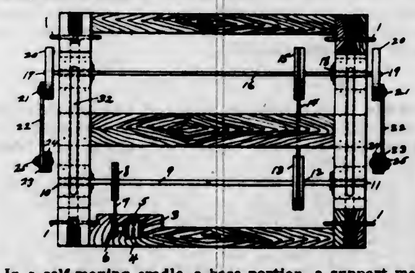
1. A sad-iron comprising in combination a base portion having a distributing chamber formed therein with openings leading from the chamber to the bottom face of the iron, an upper portion having a steam generating chamber formed therein above said distributing chamber, means providing a passageway opening at its upper end into said generating chamber and leading into said distributing chamber, a heating device interposed between said two chambers for supplying heat to both, a housing above said generating chamber, means for supplying water to said housing, means for feeding water from said housing to said distributing chamber directly through said passageway, and other means for feeding water from said housing to said generating chamber, the arrangement of said generating chamber being such with respect to the opening from said housing and the passageway to the distributing chamber that the water admitted from the housing to the generating chamber is compelled to traverse substantially the full effective length of the generating chamber before escaping to the distributing chamber.

1,428,960. EMBROIDERY NEEDLE. LEE D. HOVER, Chicago, Ill. Filed Jan. 7, 1921. Serial No. 435,701. 1 Claim. (Cl. 112—80.)



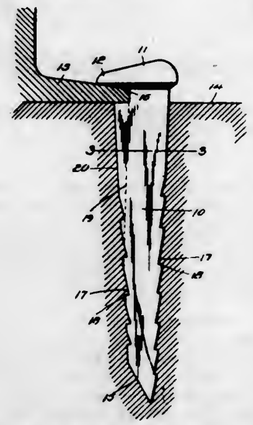
The combination with an embroidery needle, of a gage therefor comprising a pair of intertwined coils fitting over the needle, and rotatable relative to each other to vary their combined length.

1,428,961. SELF-MOVING CRADLE. ANTHONY HUDOBA, Struthers, Ohio. Filed Oct. 12, 1921. Serial No. 507,360. 1 Claim. (Cl. 5—57.)



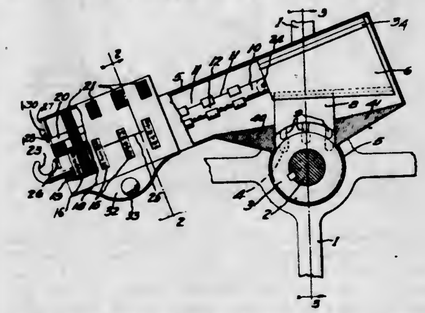
In a self-moving cradle, a base portion, a support member carrying a motor, a shaft secured to said base portion, a pulley mounted on said shaft and driven by said motor, a second pulley secured to said shaft, a second shaft and a pulley attached thereto registering with said second pulley on first shaft, a belt functioning on said pulleys, drive wheels attached to the end of second shaft, wrist pins secured to said drive wheels, link members secured to said wrist pins and to a vertical actuating beam secured to a cradle body portion, substantially as described for the purpose set forth.

1,428,962. RAILWAY SPIKE. ERICK KARRIO, Hancock, Mich. Filed May 27, 1921. Serial No. 472,976. 1 Claim. (Cl. 85—21.)



A rail spike including a stock and an overhanging head, the forward and rear sides of said stock being tapered toward the tie penetrating end and said tie penetrating end sloping away from the overhanging portion of the head, the side of the stock next to the overhanging portion of the head being recessed to provide a seat for the rail flange, and the tapering forward and rear faces of the stock having V-shaped grooves, with cutting edges, and the portion of the stock next the recess formed with a longitudinally directed channel having tie penetrating edges.

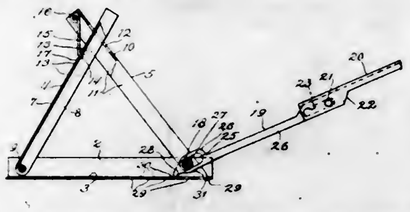
1,428,963. COMBINATION STEERING-WHEEL LOCK. PAUL KISH, Detroit, Mich. Filed Aug. 13, 1921. Serial No. 491,966. 3 Claims. (Cl. 70—129.)



3. In a combination steering wheel lock for automotive vehicles, a steering shaft, an annular member keyed thereto having a series of recesses in the outer cylindrical face thereof, a steering wheel rotatably mounted on the said annular member, a lock casing secured to the steering wheel, a locking block having a series of pins in the face thereof adapted to engage in the recesses of the annular member, a bolt movable longitudinally in the

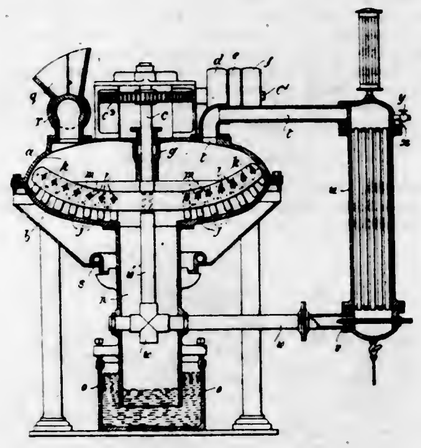
casing, a series of permutation tumblers rotatably mounted on the bolt and adapted to lock the bolt from longitudinal movement and means carried by the bolt for moving the locking block and pins into or out of engagement with the recesses in the annular member upon movement of the bolt longitudinally in one direction or the other.

1,428,964. SUPPORT FOR VEHICLES. HAROLD F. KLOCK, Elgin, Ill. Filed July 2, 1921. Serial No. 482,200. 7 Claims. (Cl. 254—129.)



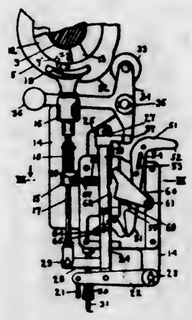
1. In a mechanism of the class described, the combination of a base, a pair of oppositely inclined crossed bars flexibly connected with said base and adapted to be adjusted to different inclined positions with respect to each other, and means for connecting said crossed bars in fixed relation to each other in any position into which they are adapted to be adjusted.

1,428,965. APPARATUS FOR CARRYING OUT THE PREPARATION OF CATALYTIC MATERIAL EMPLOYED FOR THE PROMOTION OF SYNTHETIC CHEMICAL REACTIONS. HOWARD LANE, Ashford, England. Filed Oct. 27, 1919. Serial No. 333,455. 5 Claims. (Cl. 23—28.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



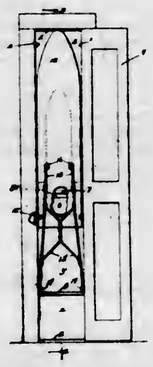
1. Apparatus for carrying out the preparation of catalytic material employed for the promotion of synthetic chemical reactions comprising an air-tight pan a dished bottom to the said pan, an inlet opening to said pan, a central outlet in the said dished bottom which outlet depends into a coating medium receptacle, a movable curved rake disposed within the pan and operable from the exterior of the pan, said rake being formed so that when moved in one direction it causes the material in the pan to move away from the outlet but when moved in another direction it causes the material in the pan to move to the outlet opening.

1,428,966. SAFETY DEVICE. WILLIAM J. MARTIN, Toledo, Ohio. Filed Mar. 21, 1917. Serial No. 156,270. 20 Claims. (Cl. 192—116.)



6. A clutch control mechanism including a movable member, an actuator therefor, a trip for rendering the actuator inoperative, there being means for re-setting the trip, a latch coacting for holding the member from actuator operation, and control means actuable separately from the member for releasing the latch.

1,428,967. CABINET IRONING BOARD. FRANK W. MAZSICK, North Milwaukee, Wis. Filed Apr. 5, 1921. Serial No. 458,652. 1 Claim. (Cl. 68—10.)



An ironing board cabinet, an ironing board pivoted to the side walls of said cabinet, a pair of links pivoted to the lower face of said board, a pair of braces pivoted to said links and to the side walls of the cabinet, each of said braces being provided with a strengthening member having its ends rigidly affixed to said brace and bowed inwardly at its intermediate portion, said portions being rigidly connected together.

1,428,968. COMBINATION PEN AND PENCIL HOLDER AND CALENDAR. HARRY J. MELLON, Pittsburgh, Pa. Filed Feb. 24, 1921. Serial No. 447,380. 2 Claims. (Cl. 40—108.)

1. A device for the purpose set forth comprising a cylindrical body portion provided with indicia and further having a part thereof polygonal and a part formed with a spiral groove, a rotatable and longitudinally shiftable retaining element mounted on and having means travelling in said groove to shift said elements and further having a narrow polygonal shaped portion at one end, and further having a pair of slots and an opening, a sleeve mounted on said body portion and having indicia visible through one of said slots, and a locking sleeve for said element, said sleeve having indicia visible through the other of said slots and having a cylindrical portion extending into said element and further having at one terminus of said cylindrical portion a narrow polygonal



shaped portion associated with the polygonal shaped portion of said element to prevent rotative movement of the element relative to the sleeve until the polygonal shaped part of the sleeve is cleared of the polygonal shaped portion of said element without withdrawing the entire sleeve from said element, said locking sleeve further having an additional polygonal shaped portion associated with the polygonal part of said body portion, and said indicia on the body portion visible through said opening.

1,428,969. BOTTLE. JAMES JOSEPH MIDSON, South Brisbane, Queensland, Australia. Filed Oct. 26, 1920. Serial No. 419,613. 3 Claims. (Cl. 215—44.)



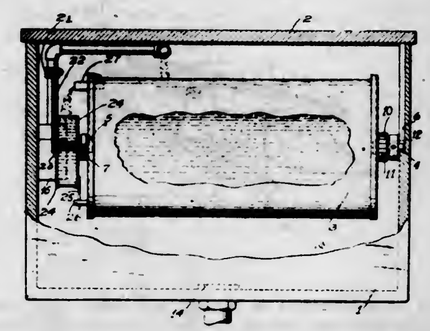
1. A closure for bottles, comprising, in combination, a bottle having a plurality of raised portions around its neck, said portions tapering from approximately the center thereof toward the upper end of the bottle neck, and a stamped cap provided with radial recesses opening at its interior and adapted to slip over the raised portions, said cap forming when rotated in one direction a gas-tight joint, the raised portions and recesses having abutting vertical walls adapted to form a positive stop for limiting rotation of the cap relative to the bottle.

1,428,970. METHOD OF MAKING BEAM HEADS. FRANK MOSSBERG, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Dec. 3, 1919. Serial No. 342,220. 2 Claims. (Cl. 29—159.)



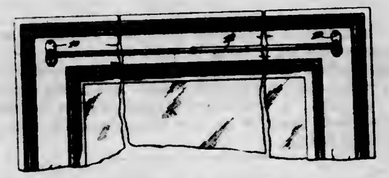
1. The method of forming a beam or reel head, which consists in cutting sheet metal into disk form, turning the outer edge of said disk off at substantially a right angle to the plane of said disk forming the bottom wall of a groove, turning the edge of said first turned portion outwardly forming one side flange of the groove, and attaching a ring to the edge of said disk forming the other side flange of the groove.

1,428,971. APPLIANCE FOR FLUSHING CLOSETS. HORACE FALK NEUMEYER, Macungie, Pa., assignor to Hobart G. Biehn, Quakertown, Pa. Filed Nov. 17, 1921. Serial No. 515,849. 4 Claims. (Cl. 4—5.)



1. In an appliance for flushing closets, the combination of a main tank, a rotatable tank mounted within said main tank, and having a relatively large discharge opening, a pull bar operatively connected with the rotatable tank and arranged to rotate the same when pulled, a gravity tank mounted adjacent the rotatable tank and filled from said tank, an inlet conduit arranged to discharge into the rotatable tank, a valve in the path of the inlet conduit, and weight operated means controlling said valve, said means being attached to and its operation determined by the weight of water in the gravity tank, and means operatively connecting the gravity tank with the rotatable tank.

1,428,972. CURTAIN ROD AND ROD SUPPORT. WILLIAM ALLAN NEWELL, Ogdensburg, N. Y., assignor to The Newell Mfg. Co. Inc., Ogdensburg, N. Y., a Corporation of Maine. Filed June 9, 1921. Serial No. 476,283. 3 Claims. (Cl. 156—22.)

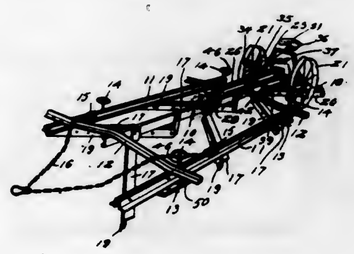


2. A curtain fixture comprising a bracket having a flat base presenting a face lying in a single plane, a substantially L-shaped hook mounted in said base and having a straight limb disposed parallel to said face, a rod having an enlarged finishing ferrule at its end, a perforation in said rod adapted to snugly receive said straight limb, and spaced from the end of said rod a distance equalling the distance of the straight limb from said face.

1,428,973. ROAD LEVELER. JOHN NORTHON, Clare, Mich. Filed Apr. 8, 1921. Serial No. 459,541. 8 Claims. (Cl. 37—5.)

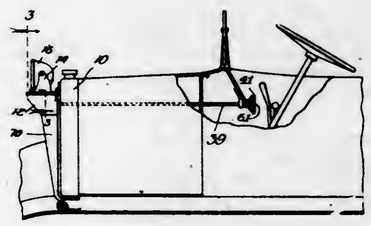
3. In a road scraper having a frame including a center beam, a reach pivotally connected at its forward end to the said beam to swing in a vertical plane, an axle pivoted at its center to the rear end of the reach, wheels on the ends of the said axle, a lever fulcrumed on the reach

and having connection with the axle at one side of the reach to control swinging movement of the former, a seat



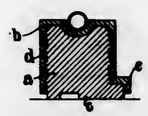
and frame supported on the axle, and means supported by the reach and engaging the rear end of the said beam for raising and lowering the latter.

1,428,974. CONTROL MECHANISM FOR LAMPS. ERNEST M. OLSON, Chicago, Ill. Filed Oct. 20, 1921. Serial No. 508,959. 4 Claims. (Cl. 240—61.)



1. In a control mechanism for lamps, means for simultaneously rotating a lamp in a horizontal plane and inclining the same downwardly, said means comprising a circular turn-table carrying the lamp, means for rotating the turn-table, a stationary pinion, and a segmental toothed rack mounted on the lamp engaging with the stationary pinion.

1,428,975. PACKING RING FOR ROTATING BODIES. CHARLES ALGERNON PARSONS, Newcastle-upon-Tyne, and STANLEY SMITH COOK, Wallsend-upon-Tyne, England, said Cook assignor to said Parsons. Filed May 3, 1920. Serial No. 378,572. 3 Claims. (Cl. 288—3.)



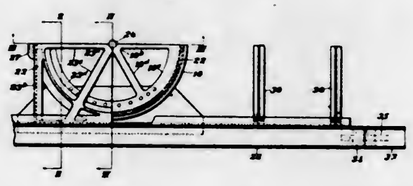
3. A packing ring section consisting of graphitic material such as carbon associated with a metal reinforcement, said metal having a coefficient of expansion substantially the same as that of the graphitic material.

1,428,976. METALLIC PACKING. FRANK E. PAYNE, Glencoe, Ill. Filed Dec. 7, 1918. Serial No. 265,674. 6 Claims. (Cl. 154—45.5.)



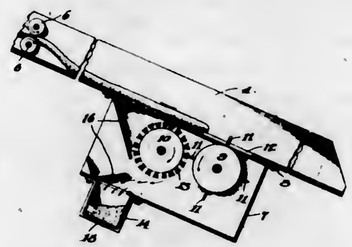
1. A packing comprising a flexible, compressible core consisting of a plurality of metallic strands, and a metallic wrapping therefor to render said core impervious to fluid pressure and forming the wearing surface therefor.

1,428,977. TRAVELING AUTOMOBILE TURNTABLE. JOHN R. PILLOW, Butler, Pa., assignor to A. B. Collner, Clarion, Pa. Filed Nov. 1, 1920. Serial No. 420,902. 4 Claims. (Cl. 104—44.)



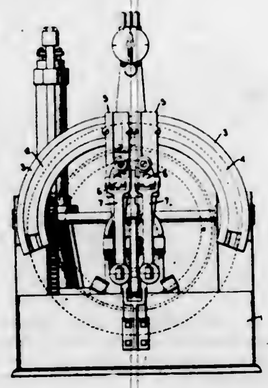
1. A traveling automobile turn table comprising in combination, a circular base, mobility wheels carrying and fully supporting said base, a rectangular turret revolubly mounted upon said base, and automobile carriers carried by said turret and fully supported thereby.

1,428,978. COTTON SAMPLER. WILLIAM COLUMBUS PITTS and ROBERT H. HAINES, Memphis, Tenn. Filed Jan. 21, 1921. Serial No. 438,971. 2 Claims. (Cl. 73—21.)



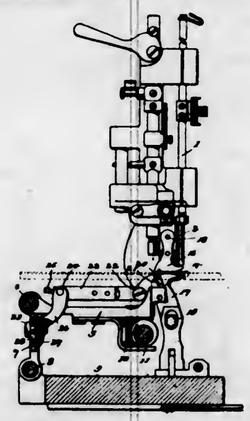
1. In a cotton sampler, the combination with a chute disposed in an inclined position for the conveyance of compressed cotton having a slot in the bottom thereof, of a casing arranged beneath he chute and embracing the slot, a roll mounted for rotation within the casing directly beneath the slot, spike membersw projecting from the periphery of said roll and movable through the slot to engage the cotton passing through the chute for removing small portions therefrom, a second roll in the casing carrying brushes for removing the cotton from the spike members, a removable sample box attached to the casing for receiving the portions of the cotton, inclined converging walls formed in one end of the casing, one of said walls forming a guide for directing the cotton samples into the sample box and means for imparting movement to the rolls.

1,428,979. TIRE-STRIPPING MACHINE. EDWARD D. PUTT, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 25, 1920. Serial No. 384,095. 3 Claims. (Cl. 18—2.)



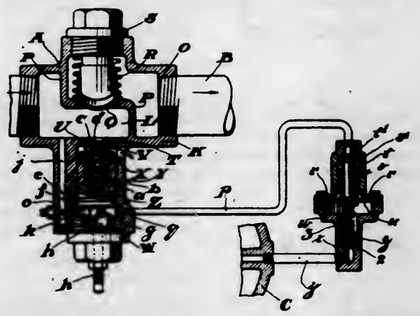
1. In a machine for the purpose of stripping tires, a tire stripping element movable over the core, said element comprising a part to engage the bead of the tire and an independently movable part over which the edge of the tire may run.

1,428,980. TRIMMING MECHANISM FOR SEWING MACHINES. WILLIAM ERASTUS RAYNOR, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 17, 1918. Serial No. 245,272. 2 Claims. (Cl. 112—122.)



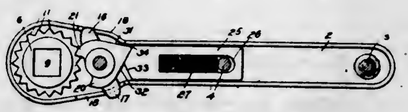
2. The combination of a feeding mechanism including a feed dog, a feed bar supporting the same, a pivoted feed rocker to which said feed bar is connected, means for vibrating the feed rocker, means whereby the throw of the feed rocker may be varied and a trimming mechanism including toggle trimming members, one of which is provided with a tooth, the other with a recess with which said tooth meshes, the inner face of said feed rocker having a seat formed thereon provided with vertical slots, a bracket mounted on said seat, screws passing through the slots into the bracket, whereby the same is adjustably secured to the feed rocker, so that the bracket may be moved toward and from the pivot of the feed rocker, the upper end of said bracket being above the feed bar connection to the feed rocker and a link connected to the upper end of the bracket and to one of the toggle trimming members.

1,428,981. COMPRESSOR UNLOADER. SNOWDEN B. REDFIELD, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 15, 1921. Serial No. 492,568. 9 Claims. (Cl. 230—24.)



2. A compressor unloader comprising a valve casing having a main valve chamber adapted to be connected in the discharge line of the compressor, a main discharge valve controlling the outlet from said chamber to the discharge line, a vent to atmosphere from said chamber, and an automatic differential relief device controlling said vent to atmosphere, consisting of a piston having an enlarged head and a spring pressed relief valve movable on said piston, both the spring pressed relief valve and the piston head being subjected to fluid pressure from the main valve chamber for actuating the piston and valve together and thereby preventing the loading of the compressor until an element of time has elapsed after starting.

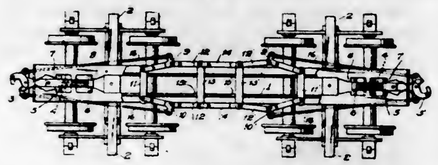
1,428,982. RATCHET WRENCH. FRANKLIN T. REESE, Pittsburgh, Pa. Filed Jan. 22, 1921. Serial No. 439,111. 2 Claims. (Cl. 81—63.)



1. A ratchet wrench comprising a casing having a handle portion and a head portion formed of two similar sections provided with abutting lateral flanges to form a housing, a ratchet member trunnioned in the head portion, a rivet passing through the head portion for binding the sections together, a pawl cooperating with the ratchet pivoted on said rivet and having a nose projecting into the handle portion, a slidable plunger having an elongated recess mounted in the handle portion and bearing against the said nose, a second rivet binding the handle portion of the sections together and passing through one end of the recess, a coil spring having one extremity abutting the last named rivet and its opposite extremity bearing against the end of the recess for urging the plunger into contact with the nose, said last named

rivet serving as a limiting stop for the plunger, the cross-sectional dimension of the plunger corresponding substantially to that of the handle portion whereby the casing not only houses but serves as a guide therefor.

1,428,983. PULL MECHANISM FOR RAILWAY CARS. CHARLES V. ROTE, Lancaster, Pa., assignor of one-half to E. W. Brown, Lancaster, Pa. Filed Sept. 19, 1921. Serial No. 501,635. 10 Claims. (Cl. 213—41.)

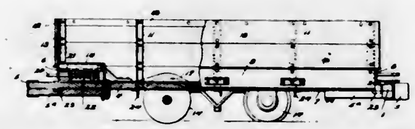


1. The combination with a railway car frame, having a draft coupler at each end, of two toggles each having both members pivotally connected to the car frame, the connection between one of said members and the frame being movable in the direction of the length of the frame and the connection of the other member to the frame being fixed, a rigid connection between the said movable members of the toggles, and a connection between each toggle and the adjacent coupler.

1,428,984. MANUFACTURE OR PRODUCTION OF CHLORINATED PRODUCTS OF TOLUENE AND DYESTUFFS THEREFROM. JULIUS SCHMIDLIN, Bergen, near Frankfort-on-the-Main, Germany, assignor to Leopold Cassella & Co., Gesellschaft mit Beschränkter Haftung, a Corporation of Germany. Filed Mar. 12, 1915. Serial No. 13,949. 1 Claim. (Cl. 260—65.)

As a new article of manufacture the new triphenylmethane dyestuff derived from tetrachloro-benzaldehyde and orthocresotinic acid being in a dry state a reddish brown crystalline powder, being in the form of its sodium salt soluble in water with a yellowish brown color, soluble in caustic soda with a deep blue color and in concentrated sulfuric acid with a claret red color, and dyeing wool in an acid bath a red or reddish brown, depending on the condition of the wool, which color, by afterchroming, turns into a beautiful greenish blue shade distinguished by its fastness to washing, milling and potting.

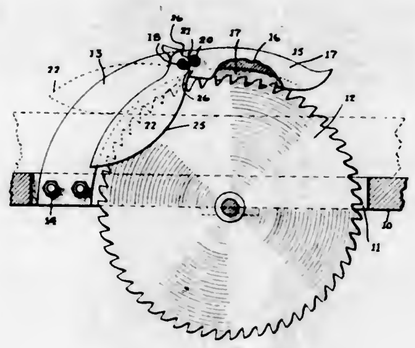
1,428,985. MINE CAR. CARL SCHOLZ, Charleston, W. Va. Filed Oct. 25, 1921. Serial No. 510,321. 15 Claims. (Cl. 105—364.)



1. A mine car body having an underframe construction comprising horizontal channel irons, a floor interposed therebetween, the said irons extending a substantial distance above the level of the floor, the flat side of the channels being on the inside of the body.

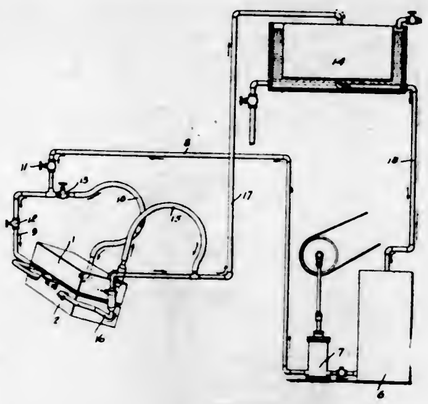
1,428,986. SAW GUARD. OTTO B. SMITH, Glen Morris, N. Y. Filed Dec. 10, 1921. Serial No. 521,344. 5 Claims. (Cl. 143—159.)

1. The combination with a circular saw or the like, of a member arranged behind and in alignment with the saw, said member curving upward over the saw edge, rearwardly extending wings pivoted on said member and adapted to overlap the sides of the saw, and a hood



pivoted on the upper end of said member and extended forwardly therefrom over the saw edge, said hood being supported at its pivoted end only and disposed so as to leave the front edge of the saw exposed to view.

1,428,987. METHOD OF CASTING. HARRY A. SCHWARTS, Defiance, Ohio. Filed June 8, 1921. Serial No. 475,968. 5 Claims. (Cl. 22—212.)



1. The hereindescribed method of casting, consisting in introducing molten metal into a mold, and maintaining the mold within a constant range of temperature.

1,428,988. LATCH LEVER. JOHN P. SEAHOLM, Moline, Ill., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill., a Corporation of Virginia. Filed Aug. 13, 1921. Serial No. 491,951. 5 Claims. (Cl. 74—39.)

1. A latch lever comprising a lever member having an opening therein, two handle mounting members having

shoulders abutting against the lever member and tongues extending through said opening and bent against the lever



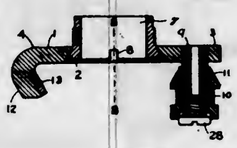
member and a handle member mounted between said mounting members and extending through said opening.

1,428,989. CAR ROOF. WILLIAM H. SLATTEN, Chicago, Ill. Filed Feb. 19, 1921. Serial No. 446,253. Renewed Feb. 23, 1922. Serial No. 538,704. 2 Claims. (Cl. 108—5.4.)



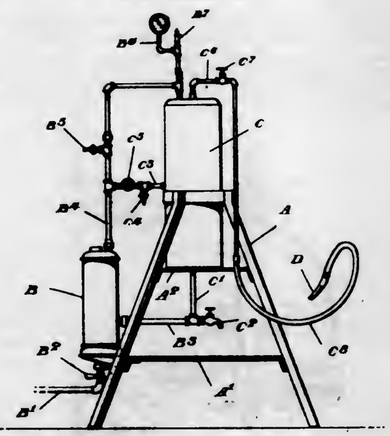
1. In a car roof, the combination of a plurality of transversely arranged channel members disposed in gaps of the sub-roof and having upstanding flanges, a plurality of transversely extending sheet metal sections having downturned marginal flanges adapted to contact with the upstanding flanges of the channel members, said downturned flanges having vertical extension flanges in spaced relation to provide narrow receiving channels, and cap pieces of a channel shape and having downturned flanges adapted to fit the channels formed by the aforesaid flanges.

1,428,990. OBJECTIVE CHANGER OR THE LIKE FOR MICROSCOPES. ROBERT ALEXANDER SLOAN, Oxton, England. Filed Nov. 20, 1918. Serial No. 263,311. 4 Claims. (Cl. 88—39.)



1. The improved device for attaching microscope objectives or the like, comprising a nose piece adapted to be rigidly secured to the microscope nose and having an undercut inclined abutment at one end and a fastening device at the other end, and an adaptor for the objective adapted to be pressed by the said fastening against the nose piece and towards the abutment so as to engage therewith, with means for limiting the movements of the adaptor; substantially as set forth.

1,428,991. PROCESS OF AND APPARATUS FOR THE MOLLIFICATION AND DISINTEGRATION OF AGGLUTINATE ELEMENTS. THOMAS MICHAEL SLOUGH, New Orleans, La. Filed Mar. 14, 1922. Serial No. 543,805. 3 Claims. (Cl. 144—2.)



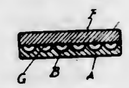
1. The process of removing cane seats from chairs which consists in, first, subjecting the retaining spline to the mollifying action of steam and simultaneously subjecting the glue in which the spline is embedded to the liquefying action of the steam, and, second, peeling the spline from the chair by interposing a pointed tool having a passage for steam directing the steam to the very point of separation of the spline from the seat.

1,428,992. CAN-CLOSING MACHINE. EARL D. SMITH, Delphi, Ind. Filed Apr. 29, 1922. Serial No. 557,481. 7 Claims. (Cl. 113—24.)



1. The process of automatically closing cans which consists in feeding said cans to a support; raising said cans successively into a gripping contact between said support and a compressible friction generating surface with a force sufficient to prevent said cans from rotating on their axes during the crimping operation; and while so held against rotation on their axes revolving a plurality of crimping rollers around and in contact with the rims of said cans to effect air tight closures, substantially as described.

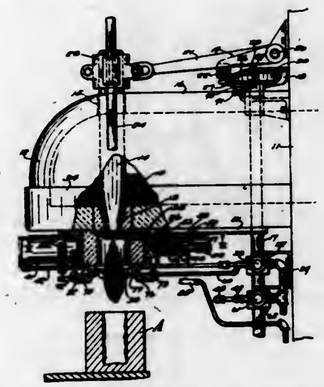
1,428,993. ART OF CORE MAKING. WILLIAM A. SMITH, Lynn, Mass. Filed Sept. 2, 1921. Serial No. 498,108. 7 Claims. (Cl. 22—13.)



1. In the art of core making the method herein described comprising the moulding of core sections from a

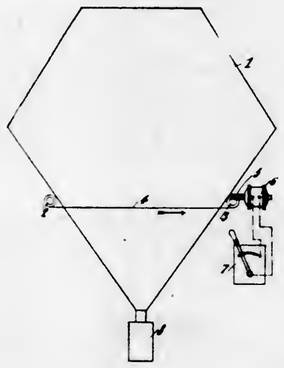
prepared core sand, treatment of that portion of their exteriors which contact in assembling with an ordinary powdered talc, and the subsequent baking of the assembled product, all substantially as described and for the reasons specified.

1,428,994. APPARATUS FOR AND METHOD OF PRODUCING CHARGES OF MOLTEN GLASS. LEONARD D. SOUBIER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 20, 1920. Serial No. 431,848. 16 Claims. (Cl. 49—55.)



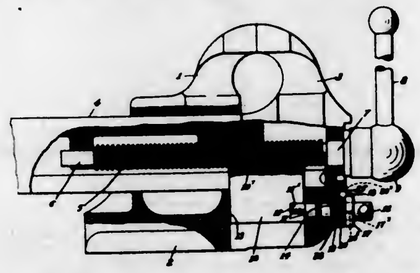
16. In gob forming apparatus, the combination of a container for molten glass having an outlet opening through which the glass issues, means to periodically sever the glass at a point adjacent said opening, means to subject the issuing glass to a reduced pressure without mechanical contact with the glass during the initial portion of each period after the glass is severed, and a regulator operating periodically within the container to exert an expelling force on the glass after it has been subjected to said reduced external pressure.

1,428,995. METHOD OF AND APPARATUS FOR TAKING AND REPRODUCING CINEMATOGRAPHIC PICTURES WITH MUSICAL ACCOMPANIMENT. OTTO SPRINGEFELD and LUDWIG CZERNY, Berlin, Germany. Filed Mar. 8, 1921. Serial No. 450,800. 1 Claim. (Cl. 88—16.2.)



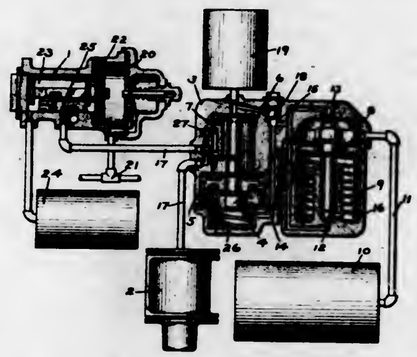
A method of recording a scene or the like and music accompanying it by means of a cinematograph, which consists in having an orchestra play the said music while the operator of the cinematograph records the said scene upon the film, while simultaneously moving across the field of the lens of the cinematograph, a member having the music played by the orcheatra recorded thereon in suitable notation, the speed of movement of the said member being regulated according to the tempo of the said music so played by the said orchestra, so that the film of the cinematograph has a continuous series of pictures relating to said scene and an adjacent continuous series of pictures recording the notation on the said member.

1,428,996. VISE. LEROY S. STARRETT, Athol, Mass., assignor to Athol Machine Company, Athol, Mass., a Corporation of Massachusetts. Filed Dec. 13, 1920. Serial No. 430,202. 10 Claims. (Cl. 81—36.)



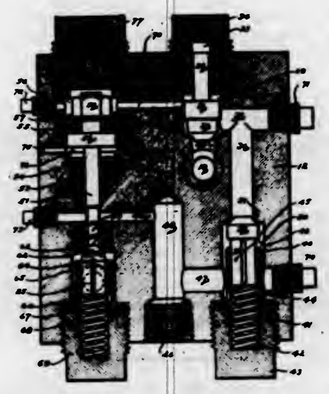
1. In a vise having a fixed and a movable jaw and a screw for adjusting said movable jaw, a threaded member movable into and out of engagement with said screw, a wrist pin for moving said threaded member into and out of engagement, a spring-controlled mechanism for moving said threaded member into engaged position and a releasable detent for holding said spring-controlled mechanism against operating movement.

1,428,997. FLUID-PRESSURE BRAKE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 20, 1921. Serial No. 509,084. 5 Claims. (Cl. 303—63.)



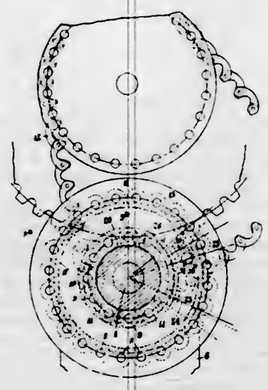
1. The combination with a brake cylinder and a valve device for normally controlling the supply of fluid to the brake cylinder, of a main reservoir, an emergency reservoir, an emergency valve device for supplying fluid from the emergency reservoir to the brake cylinder, and means operated upon a predetermined reduction in main reservoir pressure for effecting the operation of said emergency valve device.

1,428,998. VALVE FOR CAKE-FORMING PRESSES. RUSSELL A. TRACE, Dayton, Ohio, assignor to Buckeye Iron & Brass Works, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 25, 1921. Serial No. 464,230. 13 Claims. (Cl. 138—16.)



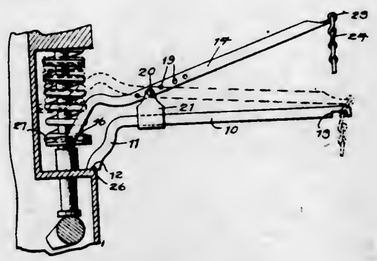
1. In a former, an inlet valve, an outlet valve, means for actuating said valves, means for cutting off a low pressure supply at a predetermined point, means for preventing back pressure from prematurely cutting off the low pressure supply, and means for applying high pressure to the former head.

1,428,999. GRADUALLY VARIABLE POWER-TRANSMISSION GEAR OR DRIVE. JAMES WALLACE TYGARD and ELIZABETH ANN TYGARD, London, England. Filed Nov. 29, 1921. Serial No. 518,741. 13 Claims. (Cl. 74—61.)



1. A variable power transmission gear comprising a rotary element, a plurality of concentric sets of transmission engaging members arranged around the axis of the rotary element, the engaging members of the several sets being capable of displacement into and out of a position in which they may be engaged by a transmission connection as the rotation of the element progresses so that the transmission of power may be transferred from a set of transmission engaging members situated on a circle of one radius to a set of transmission engaging members situated on another circle of another radius.

1,429,000. VALVE-SPRING COMPRESSOR. PAUL L. VARBLE, Carrollton, Ill. Filed Apr. 2, 1921. Serial No. 458,076. 4 Claims. (Cl. 29—86.3.)

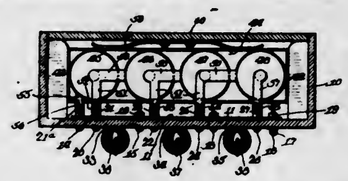


1. In a valve spring compressor for the valve springs of internal combustion engines, a pair of pivotally connected handle members one of which is provided at one end thereof with a spring seat engaging member, the other of said handle members being reversible and adapted at either end thereof for engagement with the casing of the engine.

1,429,001. PROCESS FOR TRANSFORMING ALKALI-METAL MONOCHROMATES INTO BICHROMATES OR CHROMIC ACID. GERHARD NICOLAAS VIS, Paris, France. Filed July 10, 1919. Serial No. 309,933. 3 Claims. (Cl. 23—13.)

2. The method consisting in subjecting a solution of alkali metal monochromate to the action of carbonic acid, separating the alkali metal bicarbonate formed from the resulting solution containing alkali-metal bichromate, treating the latter solution with slaked lime to form calcium chromate and solution of alkali-metal monochromate, and treating said calcium chromate with alkali-metal bisulfate to produce alkali-metal bichromate.

1,429,002. TESTER FOR ELECTRICAL DEVICES. WILLIAM WEINBERG, Chicago, Ill. Filed Sept. 20, 1920. Serial No. 411,540. 7 Claims. (Cl. 175—183.)

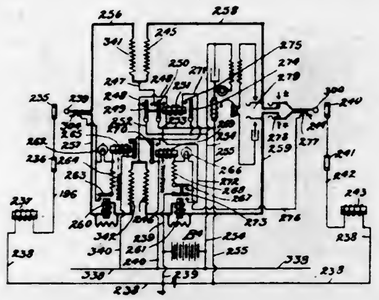


1. A testing apparatus of the character described, comprising a casing, a plurality of cells connected in series within said casing, a conductor plate secured to said casing, one of the terminals of the cells at one end of said series being provided with a spring finger to directly connect said conductor plate electrically therewith, and a plurality of pairs of contact posts, one of the posts of each pair being mounted on said conductor plate and the other posts of said pairs engaging with spring fingers electrically connected respectively with terminals of said cells having varying differences of potential between the same and s... first mentioned terminal.

1,429,003. TELEPHONE-EXCHANGE SYSTEM. NORMAN T. WHITAKER, New York, N. Y., assignor of one-fourth to Harry F. Löwenstein, Washington, D. C. Filed Apr. 4, 1916, Serial No. 88,832. Renewed Feb. 2, 1922. Serial No. 533,673. 11 Claims. (Cl. 179—84.)

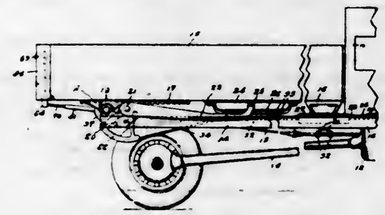
11. In a telephone exchange system, a central office, substations, means for interconnecting said substations

and means associated with said interconnecting means operable upon the connection of a third substation with



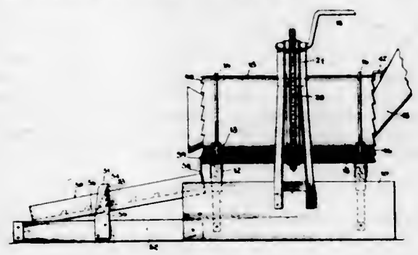
any one of a pair of substations already connected to signal a plurality of said connected substations independently of said talking apparatus.

1,429,004. DUMPING TRUCK. OLAF M. WICK, Valley City, N. Dak. Filed June 15, 1920. Serial No. 389,007. 9 Claims. (Cl. 294—14.)



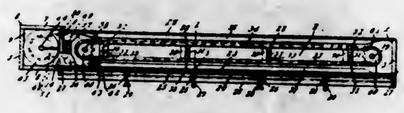
1. In a mechanism of the character described a frame, a revoluble shaft thereon, a tilting body having a pivot coincident with the axis of the shaft, a transmission device revolubly mounted on the shaft, means to hold it against rotation, means therein for rotating said shaft in either direction, a gate element on said body, load moving rollers thereon, a gear train associated with the rollers for operation thereof, and telescopic drive means between said transmission device and train.

1,429,005. PLACER MACHINERY. WILLIAM RILEY WILCOX, Manhattan, Nev. Filed Apr. 1, 1922. Serial No. 548,616. 6 Claims. (Cl. 83—86.)



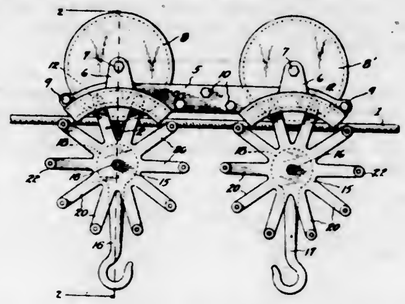
1. In a machine of the character described, a rotating drum, a spiral rib secured to the inner periphery of said drum and a combined pulverizer and scrubber operating in said drum and comprising a plurality of chains having interconnected links, a plate secured to said drum and constituting a track, and a traveler mounted on said track and having swivelled connection with one of the chains of said pulverizer and scrubber.

1,429,006. DUST COLLECTOR. ADOLPH JOHN WILHARM, Ashland, Wis. Filed Oct. 13, 1920. Serial No. 416,596. 1 Claim. (Cl. 183—69.)



In a device of the class described, a casing having an outlet and comprising oppositely disposed foraminous walls; means for discharging a blast of dust-laden air into the casing, between the foraminous walls; a brush; means located between the walls for mounting the brush for movement in an orbit along the walls; and means for flexing one of the said walls to cooperate with the brush.

1,429,007. TROLLEY. MELVEN G. WILSON, Seattle, Wash., assignor of one-half to Victor J. Thurlow, Seattle, Wash. Filed Mar. 7, 1921. Serial No. 450,114. 1 Claim. (Cl. 104—182.)

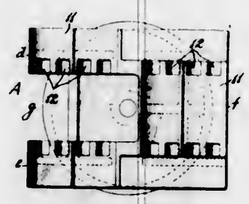


The combination with a cable provided with transverse supporting bars, of a trolley adapted for travel along said cable comprising paired, longitudinally extending frame rails, sheave wheels mounted between said rails at their ends for travel along said cable, said rails being provided at their opposite end with inwardly facing, arcuatee channels formed about centers substantially below the cable and opening at their ends in the direction of the cable, paired stepping wheels mounted between said rails at their opposite ends, each wheel comprising a plurality of radial arms provided with sheave rollers at their ends arranged circularly on the same radii as said arcuate channels and adapted to move therein and to suspend said wheels thereby below said cable; said arms being of such length and spaced to receive the cross bars between the same as the trolley moves thereover and hangers suspended from between paired wheels wherefrom loads may be suspended and carried along said cable.

1,429,008. TRUCK FOR RAILWAY VEHICLES. WILLIAM E. WOODARD, Forest Hills, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Dec. 23, 1921. Serial No. 524,341. 16 Claims. (Cl. 105—189.)

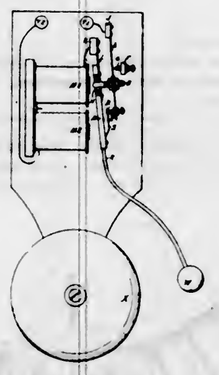
1. In a lateral motion railway vehicle truck, a bolster having three bearing surfaces for centering rockers, two

of said surfaces being on one side of the center line of the bolster and spaced apart and the third surface being



on the opposite side and arranged opposite the space between the other surfaces.

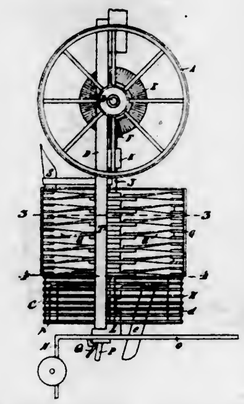
1,429,009. ELECTROMAGNETIC CONTACT DEVICE. VALENTINE C. WYNNE, Albany, N. Y.; Mary Wynne administrator of said Valentine C. Wynne, deceased. Filed Jan. 6, 1919. Serial No. 269,801. 5 Claims. (Cl. 200—90.)



5. In a device for making and breaking the operating electrical contacts of electromagnetically operated apparatus, the combination of an electro-magnet; two spring members independently mounted; a main armature, actuated by said magnet in the operation of the device, mounted on one of said spring members; an auxiliary armature also actuated by the magnet in the operation of the device and mounted on the other spring member; contact members for making and breaking the actuating electric circuit, one of said members being adjustable, carried by and with the spring members; means for arresting the forward movement (that is, toward the magnet) of the auxiliary armature, and an adjustable stop for limiting the backward movement of the spring member carrying said armature; means for adjusting the relative position of the acted-on end or face of the auxiliary armature with regard to the spring member on which it is mounted, and means for electrically insulating said armature from the said spring member.

1,429,010. MACHINE FOR DIGGING POTATOES. OTTO LUDVIG ZEUTHEN, Bagsværd, Denmark. Filed Feb. 3, 1921. Serial No. 442,079. 4 Claims. (Cl. 55—58.)

1. A potato digging machine comprising a wheel frame, a plowshare supported by said frame, a skeleton cylinder fixed on said frame and adapted to receive potatoes released by said plowshare, said fixed cylinder being open at its rear end, a longitudinal shaft supported on said frame and driven from the supporting wheels thereof, a rotary skeleton cylinder supported on said shaft and provided with an open forward end which registers with the open rear end of said stationary skeleton cylinder,



a series of oblique blades supported by said shaft within said stationary cylinder and operative to pass the potatoes through the rear end opening of said stationary cylinder into said rotary cylinder.

1,429,011. ANIMAL TRAP. GUS GEORGE ANDERSON, Miami, Ariz. Filed Aug. 26, 1921. Serial No. 495,582. 2 Claims. (Cl. 43—92.)

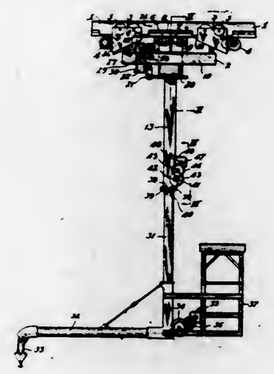


2. In a trap of the character described, a base, a bait plate, a U-shaped member having its terminals secured to the base and its bridge portion extending across the bait plate adjacent one end thereof, a U-shaped wire having its legs extending through the bait plate and adjacent one side of the bridge portion of the first named U-shaped member and its bridge portion being disposed above the bait plate and upon the opposite side of the bridge portion of the first named U-shaped member, whereby to support the bait plate by the leg portions of the last named U-shaped wire existing between its bridge portion and top surface of the bait plate, the bridge portion of the U-shaped wire serving as a keeper, and the leg portions of the U-shaped wire being extended forwardly upon the bottom surface of the bait plate to its other end and then brought upwardly and bent forwardly to serve as a means for holding a bait upon said bait plate.

1,429,012. HOISTING AND CONVEYING DEVICE. DONALD S. ANDREWS, Cleveland, Ohio, assignor to Andrews Crane Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed July 2, 1921. Serial No. 482,004. 3 Claims. (Cl. 212—17.)

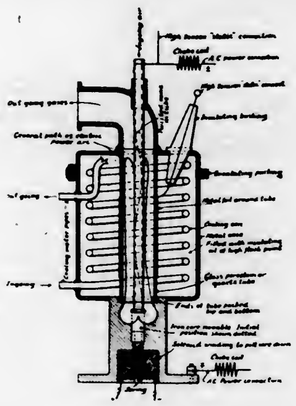
1. In a hoisting and conveying device, the combination of an overhead support; a trolley adapted to travel upon

said support; a depending and contractible mast rotatably mounted upon said trolley; a laterally extending boom



mounted upon a movable portion of said mast; means for contracting and extending said mast; and means for rotating same.

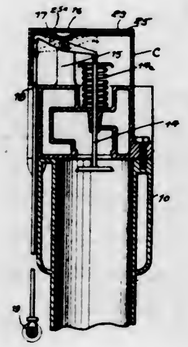
1,429,013. FURNACE FOR OXIDATION OF ATMOSPHERIC NITROGEN. ARCH U. AVERA, Florence, Ala. Filed Mar. 26, 1921. Serial No. 455,893. 8 Claims. (Cl. 204—31.)



1. The method of oxidizing atmospheric nitrogen which consists in exposing the same to the effect of an electric arc and a static charge simultaneously.

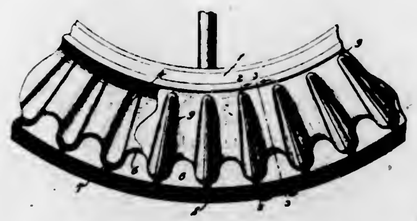
1,429,014. HEAD COVER FOR INTERNAL-COMBUSTION ENGINES. GEORGE O. BLANCHARD, Napoleonville, La. Filed Jan. 19, 1921. Serial No. 438,464. Renewed July 22, 1922. Serial No. 576,872. 4 Claims. (Cl. 123—90.)

1. In combination with an internal combustion engine embodying overhead valves and operating mechanism therefor embodying rocker arms mounted upon the head of the engine, a casing secured to the engine head and enclosing the valve gearing carried thereby, a conduit connecting said casing with the interior of the engine base



and means within the casing for collecting oil from the vapors from the base and depositing the same upon said rocker arms.

1,429,015. INNER TUBE FOR TIRES. GEORGE W. BOLSER, Cleveland, Ohio. Filed Apr. 12, 1921. Serial No. 460,685. 2 Claims. (Cl. 152—13.)

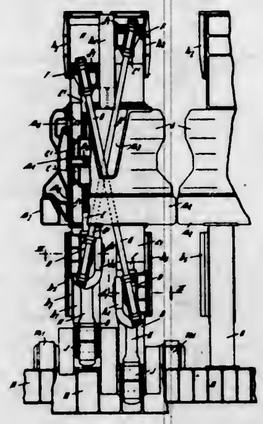


1. The combination with a tire casing, of an inner tube provided with a series of pleats or folds extending in accordion fashion around the tube when the latter is deflated, said pleats or folds being adapted to flatten outwardly against the inner wall of the casing when the tube is inflated, an outwardly projecting bead formed on the outer surface of said pleats or folds and adapted to engage the inner surface of the tire casing to prevent creeping of the tube within the casing.

1,429,016. INTERNAL-COMBUSTION ENGINE. GEORGE J. CARTER, Bromborough, and LAUCHLAN GRANT MCFARLANE, Liverpool, England. Filed Oct. 22, 1918. Serial No. 259,251. 2 Claims. (Cl. 121—117.)

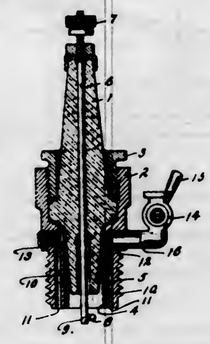
1. In an engine of the class described, a pair of cross heads arranged side by side, operating means therefor, slipper plates extending from the outer sides of the cross heads, and two pair of columns between which the cross heads slide, the columns of each pair having outer

guide surfaces for said slipper plates, the inner sides of each pair of columns being spaced far enough apart to



permit access to be had to the cross heads and their operating means.

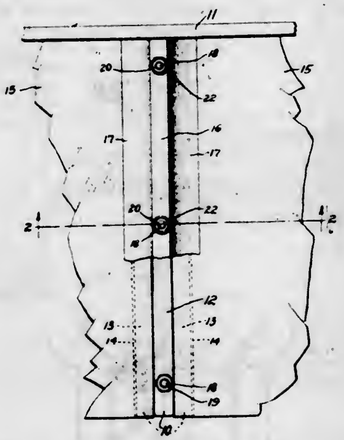
1,429,017. SPARK PLUG. HOLLEY CARTMILL, Spokane, Wash. Filed Dec. 9, 1920. Serial No. 429,477. 1 Claim. (Cl. 123—169.)



The combination with a spark plug and its attaching shell formed with an inner bore surrounding the sparking end of the plug, said shell having a chamber in its wall formed with a restricted mouth opening into the engine cylinder and adapted to receive an explosive mixture whereby a blast of gas occurs past the sparking end of the plug with an explosion in said chamber.

1,429,018. SKYLIGHT CONSTRUCTION. STEPHEN E. CIBULAS, Bridgeport, Conn. Filed Mar. 23, 1921. Serial No. 454,678. 2 Claims. (Cl. 108—168.)

1. A glass holding structure comprising a supporting bar of relatively heavy sheet metal bent upon itself at substantially its mid width to form an inverted U-shaped vertical longitudinally extending rib, the sides thereof extending laterally away from each other at the lower edge of the rib and the free edges then extending upwardly to form seats for the glass, an inverted V-shaped clamping bar of relatively heavy sheet metal on the upper side of the glass and arranged with its free edges cooperating with the seats to secure the panes of glass therebetween, resilient means above the clamping bar secured to the



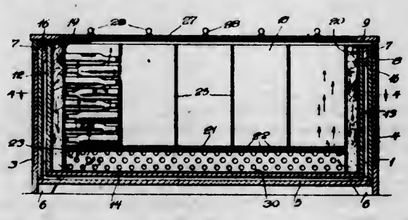
supporting bar and tending to press the two bars together to hold the glass, and means for varying the pressure of the resilient means.

1,429,019. PUTTY GUN. VERNON WILLIAM JAMES COFFIN, Toronto, Ontario, Canada. Filed Feb. 11, 1922. Serial No. 535,942. 3 Claims. (Cl. 18—3.5.)



1. A putty gun comprising a cylinder, a piston operable within the cylinder, a head adapted to bear against the window sash and pane to form a triangular putty receiving space and having a slotted opening through which the putty is adapted to be forced into such space, and a guiding member carried by the slotted head and having a portion having a flat surface bearing against the face of the window sash.

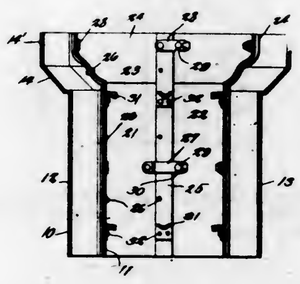
1,429,020. REFRIGERATOR. RILL K. COMBS, Marion, Ohio. Filed Mar. 29, 1922. Serial No. 547,791. 1 Claim. (Cl. 62—87.)



In a refrigerator for bottled goods and the like an outer casing, an inner removable container spaced from the

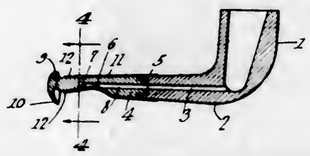
side walls of the casing to provide an ice receiving compartment, said container having imperforate side walls arranged to terminate a short distance below the top of said outer casing, whereby an air passage is provided between the ice compartment and the interior of the inner container, the inner container having a perforate bottom, and perforated flanges integral with said side walls and depending below said bottom, whereby the side walls are supported and a free circulation of air is permitted between the ice compartment and the interior of the inner container.

1,429,021. CONCRETE-CULVERT FORM. HENRY B. COX, Cordele, Ga. Filed Feb. 5, 1920. Serial No. 356,379. 1 Claim. (Cl. 25—127.)



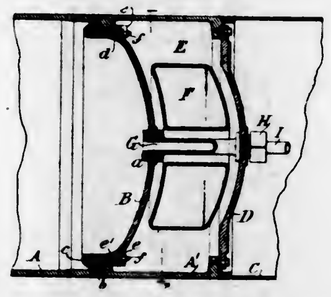
A concrete culvert form comprising inner and outer shells, each shell comprising a plurality of sections disposed with their edges extending in the direction of the axis and in abutting relation, latches bridging the coacting edges of the sections of the shells for holding the sections assembled, and brace engaging members projecting inwardly from the sections of the inner shell, said members including lugs secured to the inner faces of the sections and having transversely concaved upper portions adapted to receive the extremities of cross braces between the inner sections of the shell to hold the same outwardly braced against collapsing.

1,429,022. TOBACCO PIPE. WILLIAM R. DALES, Philadelphia, Pa. Filed Nov. 15, 1920. Serial No. 424,176. 4 Claims. (Cl. 131—12.)



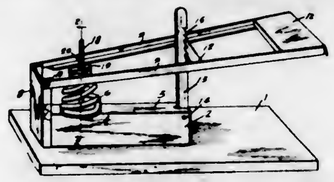
1. In a tobacco pipe the combination with the bowl and stem, of a mouth piece having a transverse recess terminating the smoke passage in the mouth piece, and a soft rubber sleeve fitted snugly upon and extending longitudinally of the mouth piece and having a portion normally cotracted within the recess to close said recess and the inner end of the smoke passage, that portion of the sleeve between the end of the stem and the recess being adapted to expand and continue the smoke passage when the stem is subjected to suction by the user.

1,429,023. AIR FLASK FOR TORPEDOES. WILLIAM DIETER, Newark, N. J., assignor to Vittlea Development Corporation, a Corporation of Delaware. Filed June 18, 1921. Serial No. 478,773. 5 Claims. (Cl. 114—20.)



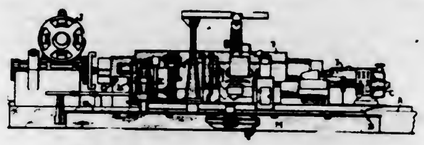
1. The combination with an air flask body having an internal flange, and its head having an external flange, of clamps applied to the outer side of the head and bearing against the internal flange, the bearing ends of the clamps and the bearing faces of said flange being beveled.

1,429,024. SPRING COMPRESSOR. HOWARD H. DOUGLASS, Los Angeles, Calif. Filed Jan. 26, 1921. Serial No. 440,202. 5 Claims. (Cl. 29—87.1.)



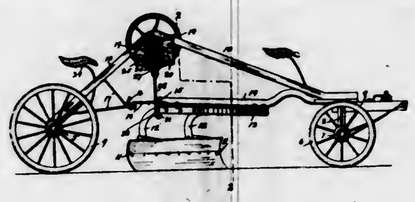
1. A spring compressor including a base for supporting a spring, a lever connected to said base so as to engage said spring for compressing the latter and a ratchet bar pivotally mounted on the base and adapted to engage a part of said lever when the same is depressed to compress a spring positioned on said base.

1,429,025. ELECTRICALLY-DRIVEN GRINDING MACHINE. HOWARD W. DUNBAR and ALBERT TURNER, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 1, 1920. Serial No. 427,544. 13 Claims. (Cl. 191—34.)
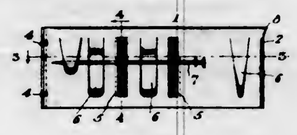


1. A grinding machine comprising a base having ways, a table reciprocable thereon, a grinding wheel rotatively mounted on the table, a motor on said table for rotating the wheel, and means for conveying current to said motor in all operative positions of the table, comprising a trolley system including conductors extending parallel with said ways and a collector arm cooperating therewith, one of said cooperating members being mounted on the base and the other connected to the table to move therewith.

1,429,026. ROAD GRADER. CHARLES D. EDWARDS, Albert Lea, Minn. Filed Apr. 22, 1921. Serial No. 463,533. 6 Claims. (Cl. 37—49.)



1. In a road grader, the combination with a frame having arched side bars and bearing brackets secured to the crowns thereof and depending therefrom, of a scraper and draw bar connections between the same and the main frame structure, and means for vertically adjusting the opposite ends of said scraper blade, comprising crank arms and operating devices mounted on said bearing brackets below the crowns of said frame bars.

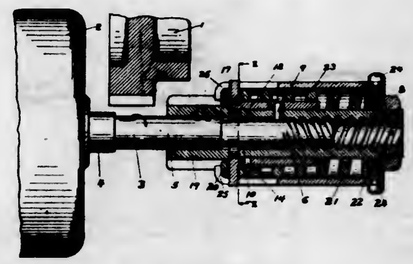
1,429,027. ARTICLE RETAINER. HAROLD FULTON, Elyria, Ohio. Filed June 21, 1920. Serial No. 390,552. 1 Claim. (Cl. 24—12.)



As a new article of manufacture, an article retainer comprising a member formed from a rectangular blank of sheet material of elongated form and uniform width and thickness throughout its length, said blank being bent on its central portion to form parallel side members connected at one end by a loop portion forming a cylindrical pocket, the opposite ends of the side member being turned toward one another and connected, a plurality of inwardly directed partition members struck out from one side plate, a plurality of spring clamping members between said partition members and struck out from said first mentioned plate, said spring clamping members having portions depending into the spaces provided between said partition members to grip articles placed therein, a spring gripping member struck out from one of said plates and extending into said cylindrical pocket to grip an article inserted therein, and means carried by one of said plates for attaching the article holder removably to an article of clothing.

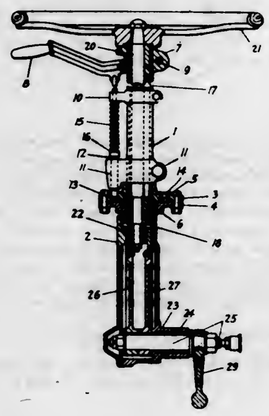
1,429,028. DRIVING MECHANISM. CLARENCE F. GILCHRIST, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a Corporation of Ohio. Filed July 22, 1918. Serial No. 246,189. 7 Claims. (Cl. 74—7.)

1. In a starting mechanism for internal combustion engines, the combination of an engine member; a driving shaft having a threaded portion; an internally threaded sleeve having threaded engagement with said shaft; a pin in said sleeve adjacent an end thereof; a second sleeve having a slot therein, inclined relative to the axis of the shaft, in which the pin is adapted to have movement, said second sleeve having radial circumferentially spaced lugs at one end thereof; a pinion slidably mounted on said shaft, having a ring at one end theerof; a spring mounted on said sleeves and adapted to exert pressure on said radial lugs; and a casing, one end of which is cut to form axially extending fingers between which the lugs are adapted to have axial movement, the ends of said fingers being in-turned over said ring to engage the



teeth of the pinion, said slot forming a camming surface for the pin whereby the spring is compressed when the pinion has full enmeshment with the engine member.

1,429,029. STEERING GEAR FOR MOTOR-PROPELLED VEHICLES. KENT S. GINGERICK, Urbana, Ohio, assignor to Rial T. Parrish, Dayton, Ohio. Filed May 1, 1922. Serial No. 557,526. 4 Claims. (Cl. 74—79.)

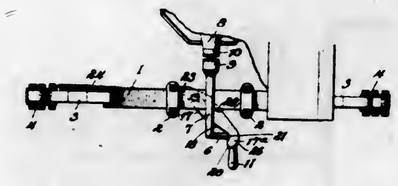


1. In a device of the type described, the combination with a rotatable steering column, of an eccentric member fast within said column, a steering shaft rotatable in said eccentric member and adapted to be moved from one extreme position to another by it, a transverse shaft, a pair of segmental gears fixedly secured to said shaft, and a pinion secured on the lower end of the steering shaft for engagement with one or the other of said segmental gears when the eccentric member is turned by the steering column.

1,429,030. SAFETY CRANK CATCH. FREDERICK W. GOEDEKE, Evansville, Ind., assignor of one-half to Herman Mueller, Evansville, Ind. Filed July 19, 1921. Serial No. 485,894. 4 Claims. (Cl. 123—185.)

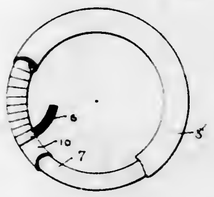
1. A safety crank catch for automobiles, comprising a yieldable dog pivoted for movement in a substantially horizontal plane and in the path of the crank, the free end of the dog being adapted to be moved by the normal operation of the crank between points which lie upon opposite sides of the normal vertical position of the crank, the crank

passing beyond the free end of the dog at one of said points, and means for automatically returning the dog to



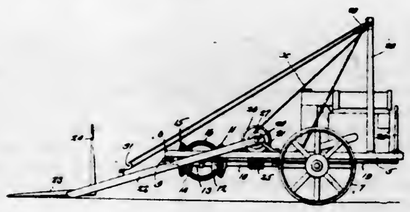
the other point in its limit of travel, said dog adapted to stop the reverse movement of the crank at this last-named point.

1,429,031. PUNCTURE-HEALING TUBE. PAULLI HARDER, Copenhagen, Denmark. Filed Mar. 22, 1922. Serial No. 545,846. 1 Claim. (Cl. 152—18.)



An inner tube for pneumatic tires comprising an unbroken annular inner elastic tubular member, a layer of plastic puncture healing material completely enveloping the entire outer area of said inner tubular member, and a spirally wrapper strip of fabric arranged about the healing material and forming a fabric layer completely enveloping the puncture healing material and constituting a substantially non-extensible closed container therefor, and an outer elastic tubular member enveloping the fabric layer and in direct contact with the entire outer area thereof.

1,429,032. SHOCK LOADER. THOMAS R. HARRINGTON, Platte City, Mo. Filed Oct. 25, 1921. Serial No. 510,189. 2 Claims. (Cl. 214—131.)



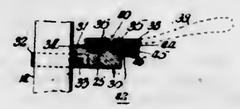
1. In combination with a tractor and the drive shaft thereof, a loading device including a frame, a shaft on the frame and connected with the drive shaft of the tractor to receive motion therefrom, a transversely extending shaft on the frame, means for transmitting motion from the drive shaft to the transversely extending shaft, a pivoted loading arm carried by the frame, a drum on the transversely extending shaft, and a flexible member operating over the drum and having connection with the pivoted loading arm for moving the same.

1,429,033. RAILWAY-RAIL FASTENING. ORAN P. HARRIS, Richmond, Ind., assignor of one-half to William M. Parker, Hollandsburg, Ohio. Filed Jan. 7, 1922. Serial No. 527,738. 1 Claim. (Cl. 85—2.4.)



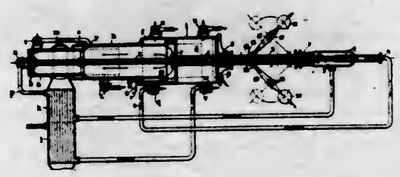
A railway rail fastening comprising a round shank having a head on its lower end with its upper portion threaded, spring arms secured at their lower ends to the lower portion of said shank and projecting upward parallel therewith, a body member slidably mounted on said shank with its lower end adapted to spread said arms apart, a head integral with and extending at right angles from the upper end of the body and having a rail engaging lug, and a tooth extending down parallel with the body and a nut threaded on the upper portion of the shank to retain said body in place.

1,429,034. ANTIGLARE DEVICE FOR MOTOR VEHICLES. WILLIAM E. HASELTINE, Ripon, Wis. Filed Dec. 5, 1921. Serial No. 519,859. 4 Claims. (Cl. 296—97.)



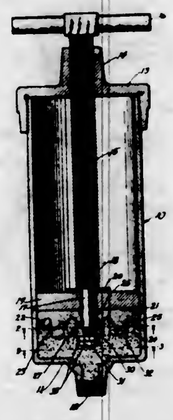
1. A device of the kind described, comprising, an antiglare panel, a bracket adapted for attachment to the windshield frame of a motor vehicle, said panel being pivotally mounted in said bracket to swing on a horizontal axis, an operating member mounted on a fixed part of the motor vehicle, a member connecting the panel with said operating member, and a braking device associated with the operating member for holding it in the desired position.

1,429,035. APPARATUS FOR PRODUCING NITRIC OXIDE. HERBERT ALFRED HUMPHREY, London, England. Filed Dec. 18, 1918. Serial No. 267,369. 6 Claims. (Cl. 23—1.)



1. Apparatus for the production of nitric oxide, comprising in combination a cylinder of differential diameters and having admission and exhaust ports, and a movable piston of corresponding diameters within said cylinder and adapted to control the said ports.

1,429,036. PLUNGER. WILLIAM CARL IFTIGER, Los Angeles, Calif. Filed Mar. 15, 1921. Serial No. 452,481. 9 Claims. (Cl. 74—108.)



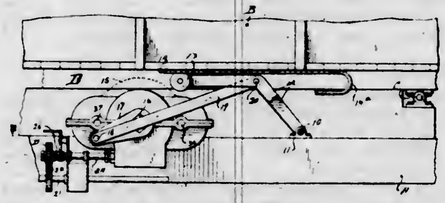
1. In a plunger, a carrier, a relatively thick disc of flexible material thereupon, which flexible disc is provided with a plurality of concentrically arranged grooves extending partially through the disc.

1,429,037. CLIP. JOSEPH WARREN KESSEL, Brooklyn, N. Y. Filed Jan. 25, 1921. Serial No. 439,839. 1 Claim. (Cl. 24—11.)



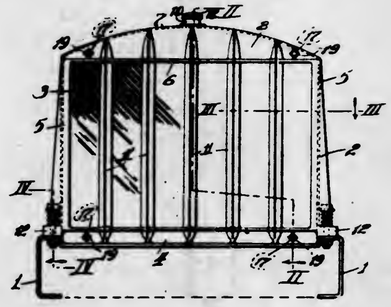
In a device of the character described, a relatively long arm having a spherical head formed at one end thereof, said head having a cut out portion, a roller supported by the head within the cut out portion, said roller having a plurality of teeth formed on the periphery thereof, the teeth extending beyond the surface of the spherical head to bite into a supporting element.

1,429,038. ELEVATING MECHANISM FOR AUTOMOTIVE TRUCKS. ROY A. KLEIN, WARREN H. BURTIS, and LEE U. EVERLY, Salem, Oreg. Filed Mar. 20, 1920. Serial No. 367,392. 8 Claims. (Cl. 298—21.)



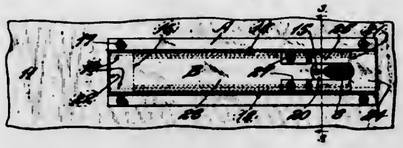
1. An automotive truck including a supporting frame, a body pivoted to the supporting frame for tilting movement, means for tilting the body comprising a pair of arms operatively pivoted to the frame beneath the body, their free ends having sliding engagement with the under side of the body, a crank shaft mounted on the frame and having cranks, and links connecting said cranks to the pivoted arms.

1,429,039. COMBINED SUPPORT AND GUARD. VALENTINE C. KLOEPPER, St. Louis, Mo. Filed Feb. 28, 1920. Serial No. 362,085. 5 Claims. (Cl. 180—68.)



1. The combination of a vehicle radiator and a guard therefor, said guard being arranged forwardly of said radiator and being provided with a plurality of integrally formed forwardly projecting portions drawing means for securing said radiator to said guard, and a horizontally extending bushing carried by said radiator for the reception of said drawing means.

1,429,040. SLOT CLOSURE. ALFRED M. LANE, St. Louis, Mo., assignor to Monarch Metal Products Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 13, 1921. Serial No. 437,052. 4 Claims. (Cl. 74—81.)

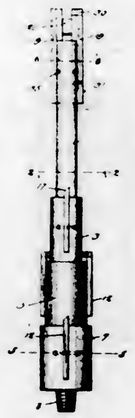


1. A device for closing a slot in which a lever operates comprising a base plate having a slot adapted to register with the slot for said lever and a cover plate adapted to move with said lever, said base plate being adapted to be secured in position and having rebent flanges along its opposite sides forming slideways for said cover plate, said cover plate having an elongated notch formed in one end adapted to receive said lever, and a detachable locking member mounted on said cover plate and extending across the mouth of said slot for holding said lever therein.

1,429,041. DRILLING BIT. WILLIAM A. LEGATE, Guthrie, Okla., assignor of one-half to Garnet C. Sandidge and Chester R. Damon, both of Guthrie, Okla. Filed May 5, 1921. Serial No. 466,925. 3 Claims. (Cl. 255—73.)

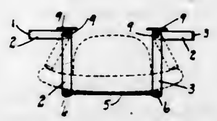
1. A device of the class described comprising parts of successively decreasing diameters, and provided with longitudinal seats which open laterally through said parts and through the ends thereof; cutters insertable endwise into the seats and dove-tailed therein against outward move-

ment in a direction at right angles to the axis of the device, the cutters projecting beyond the ends of said parts



and projecting laterally beyond said parts; and means for holding the cutters against longitudinal movement.

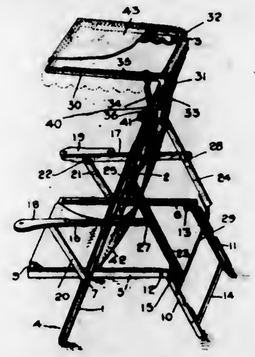
1,429,042. ADJUSTABLE BRACKET AND SHELF. SIGMUND LISKOW, Cincinnati, Ohio, assignor of one-half to Henry Sway, Cincinnati, Ohio. Filed Aug. 1, 1921. Serial No. 488,982. 2 Claims. (Cl. 45—13.)



2. A device of the character described formed of two sections, each section comprising an elongated arm provided with end extensions and means for detachably connecting the two arms together to form a shelf or bracket and means for suspending the same upon an article rendering the two sections capable of swinging opposite directions, and said connecting means between the arms capable of being swung out of the way, or of being swung to connect said sections.

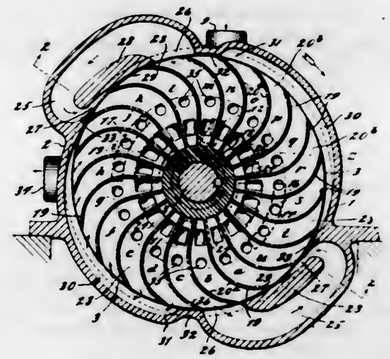
1,429,043. COLLAPSIBLE CAMP CHAIR AND CANOPY THEREFOR. ANDREW MARTIN, Toronto, Ontario, Canada. Filed Dec. 12, 1921. Serial No. 521,855. 1 Claim. (Cl. 155—139.)

A collapsible camp chair, comprising a back frame member, a seat frame member pivotally mounted intermediately of its width between the sides of the back frame member and comprising two portions pivotally connected together at their opposing ends, one of such portions forming the seat frame proper and the other portion forming the rear supporting strut resting upon the ground, a strut member pivotally connected to the back frame member above the seat frame proper and engaging the supporting strut at its opposite or free end, arm bars pivotally connected to the strut members carried by the back frame, bars pivotally connected at one end adjacent to the free ends of the arm members and at the opposite end to the back frame at the pivot connecting the back frame and seat frame, and



looped guides secured to the sides of the back frame through which the arm bars freely extend.

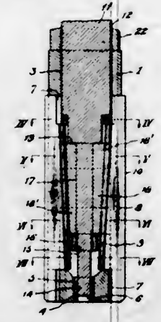
1,429,044. TURBO DISPLACEMENT MOTOR. LEWIS HALLOCK NASH, South Norwalk, Conn. Filed Feb. 23, 1921. Serial No. 447,285. 18 Claims. (Cl. 60—108.)



1. In combination, a casing adapted to contain a liquid, a rotor in the casing and having a plurality of chambers each having an orifice, a passage in the casing having an outlet at its rear portion discharging liquid through said orifices into said chambers successively, and said passage having an inlet at its forward portion into which inlet the liquid supplied to said chambers at said outlet is discharged from said chambers into said passage to supply liquid through said outlet to following chambers.

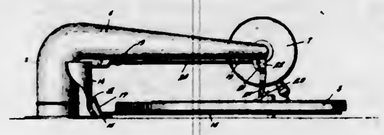
1,429,045. EXPANSIBLE REAMER. GEORGE NIEDERMAYER, Cleveland, Ohio, assignor to The Tell Machine & Tool Co., Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 25, 1919. Serial No. 333,321. 2 Claims. (Cl. 77—75.5.)

1. In an expansible reamer, the combination of a hollow body member formed with radial slots and having an open interiorly threaded end; blades mounted and adapted to slide in said slots; an actuating member in said body member formed with longitudinally inclined slideways, the inner ends of said blades being formed with inclined bearings adapted to seat and slide in said slideways; and a rod having threaded engagement with the interiorly threaded end of said body member, said actuating member being rotatably mounted upon said rod but longitudinally fixed



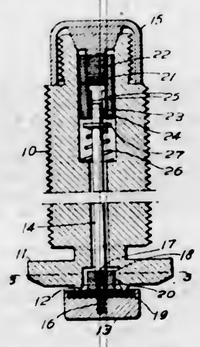
relatively thereto, said actuating member being removable with said rod through said open threaded end of said body.

1,429,046. NONSET AUTOMATIC STOP. CLEARENCE B. O'NEILL, Clymer, Pa. Filed Nov. 18, 1921. Serial No. 516,171. 3 Claims. (Cl. 192—116.)



1. In combination with the tone arm, turn-table and music tablet supported on the turn-table, a lever supported adjacent to one end of the tone arm and carrying a pivoted foot contacting with the music tablet, said music tablet having a recessed portion lying within the path of travel of the pivoted foot, a brake arm, means for connecting the lever and brake arm, and said pivoted foot adapted to contact with the walls of the recessed portion to cause the operation of the lever and connecting means between the lever and brake arm.

1,429,047. TIRE VALVE. MARSHALL J. PAYNE, Staunton, Va., assignor to The Payne Valve Corporation, Staunton, Va. Filed Sept. 30, 1921. Serial No. 504,308. 4 Claims. (Cl. 152—12.)



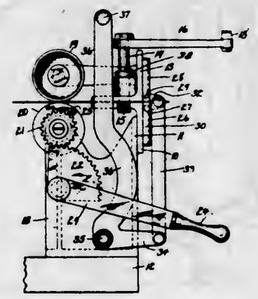
3. The combination of a tubular tire stem having a valve seat in its interior end, a valve movable to and from such seat, a valve stem passing through the tire stem, means positively to seat the valve comprising a radially movable member loosely connected with the stem to allow movement of said member under centrifugal force independently of the stem, a rotary cap engaging said member to move the same radially of the wheel, and means to prevent rotary movement of the stem and said member when said cap is rotated.

1,429,048. HOISTING AND LOCKING MECHANISM FOR PLOWS. ALFRED M. SCHLAGEL, Montgomery County, near Dayton, Ohio, assignor to Rial T. Parrish, Dayton, Ohio. Filed Oct. 21, 1921. Serial No. 509,243. 5 Claims. (Cl. 97—50.)



1. In a device of the type described, the combination with a plow beam, a plow carried thereby, of elevating mechanism for said plow beam, a driving gear, a rotatable shaft transverse to said gear, an inner crank fast on said shaft, an outer crank also fast on said shaft, a connecting element between the outer crank and the plow elevating mechanism, a crank pin in the inner crank, movable into engagement with the driving gear, a push element adapted to force said crank pin into engagement with the driving gear, a lever, and means actuated by said lever, adapted to engage and force the push element inwardly a sufficient distance to press the crank pin into engagement with the driving gear, whereby the inner crank may be turned by the latter to actuate the plow elevating mechanism through the outer crank.

1,429,049. PAPER-FOLDING MACHINE. HARRISON A. SELFRIDGE, New Haven, Conn. Filed July 23, 1921. Serial No. 486,966. 4 Claims. (Cl. 270—61.)

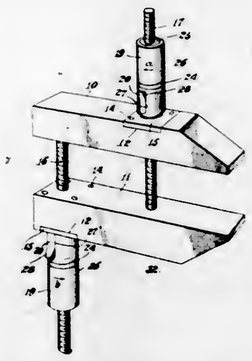


1. A paper folding machine, comprising a fixed clamping-member, a movable clamping-member above the same, each having a horizontal clamping-face and a vertical wall, means for feeding a strip of paper between the clamping-members, a slide connected with the outer face of the vertical wall of each of said clamping-members, and means for moving the said slides up or down beyond the meeting faces of said clamping-members.

1,429,050. HAND SCREW. SEYMOUR SYLVESTER, Brooklyn, N. Y. Filed Sept. 1, 1921. Serial No. 497,754. 4 Claims. (Cl. 144—301.)

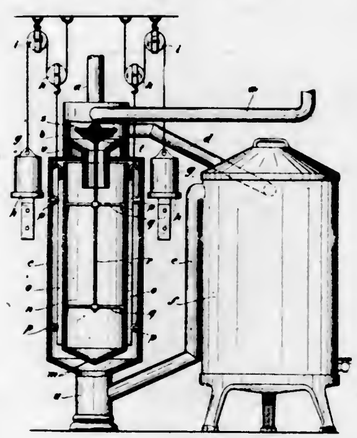
1. In a tool of the character described, the combination of adjustably mounted clamping jaws, a spindle fixed

to each jaw and adapted to move freely in an opening in the other jaw, and means carried by said jaws and capable of free axial and rotary movement and screw ad-



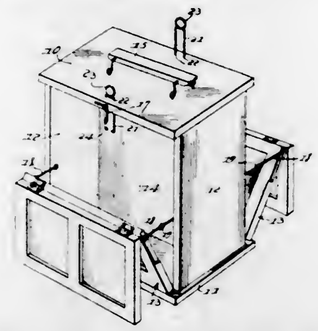
justment about said spindles, whereby the clamping jaws may first be moved unobstructedly toward each other and then receive further adjustment about said spindles, to be forced into closer proximity with each other.

1,429,051. APPARATUS FOR COLLECTING RAIN WATER FOR DOMESTIC AND OTHER PURPOSES. KURT VONGEHR, Tilsit, Germany. Filed May 18, 1922. Serial No. 561,992. 1 Claim. (Cl. 137—9.)



In an apparatus for collecting rain water, a clear-water reservoir, a drain adjacent thereto and connected thereto by an overflow-pipe, said drain having an upstanding casing *c*, a preliminary receiving-chamber on top of said casing *c* and having a discharge-opening leading therefrom, said discharge-opening having a valve-seat, a gravitating counter-balanced receptacle mounted in said casing *c* and means for guiding it therein, said receptacle having a leak-opening at its lower end, a rod affixed to said receptacle and extending up through the valve-seat surrounding the discharge-opening and provided with a valve at its upper-end adapted to seat on said valve-seat, said valve being provided with a leak-opening, and a pipe leading from the preliminary receiving-chamber at a point above the valve-seat to said clear-water reservoir.

1,429,052. DISK-RECORD CABINET. STEPHEN S. WARD, San Diego, Calif. Filed Feb. 24, 1922. Serial No. 538,931. 2 Claims. (Cl. 211—16.)



1. A portable record cabinet having a frame comprising top, bottom and end walls, and movable side walls hinged at their lower edges to the bottom wall and limited in outward swinging movement to positions at an outward and upward inclination to the plane of the adjacent sides of the frame, and means for securing said doors in their closed positions, and retainers slidingly mounted in the walls of the frame for positioning at their inner ends in the paths of outward movement of the records.

1,429,053. WRENCH. WILLIAM H. WARD, Ashtabula, Ohio. Filed June 4, 1919. Serial No. 301,627. 1 Claim. (Cl. 81—91.)

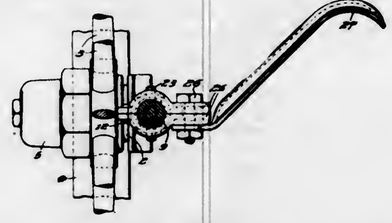


A wrench comprising a pair of plates, a jaw having a shank mounted between said plates and rigidly secured thereto, a second jaw having a shank pivotally supported between said plates, and a handle formed with a disk like head and pivotally supported between the plates with the pivot concentric with the head, the two jaws being formed with recesses in their shanks concentric to the head and embracing the latter on opposite sides of its center.

1,429,054. AGRICULTURAL IMPLEMENT. WILLIAM C. WARREN and GEORGE L. KIER, Philadelphia, Pa., assignors to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed May 28, 1921. Serial No. 473,455. 3 Claims. (Cl. 280—96.1.)

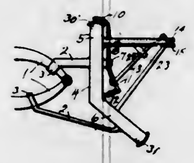
1. In a machine of the class described, the combination with a vertically extending hanger, of an axle-support-

ing housing comprising a pair of oppositely disposed members arranged to form a socket for the reception of said hanger, anti-friction means contained in and forming a bottom to said socket and cooperative with the hanger,



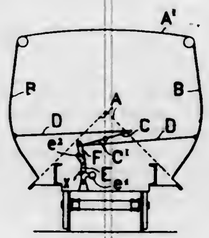
means operative to retain the hanger in the socket, and a substantially horizontally extending cylindrical stub axle removably positioned adjacent the lower extremity of said housing.

1,429,055. AUTOMATIC SAFETY FENDER FOR MOTOR VEHICLES. CHARLES W. WILLIAMS, Jr., Montclair, N. J. Filed Apr. 18, 1922. Serial No. 555,429. 9 Claims. (Cl. 293—41.)



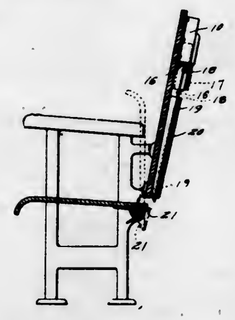
2. In a motor vehicle, an expansible frame, said frame being anchored intermediate its edges to a support to permit it to expand in opposite directions, a spring actuated catch to hold said frame in its closed position, a pivoted lever connected to said catch and adapted to release it when said lever is pressed.

1,429,056. SELF-DISCHARGING CAR. WILHELM WINTER and GERHARD IMMAND, Essen, Germany, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Mar. 28, 1921. Serial No. 456,371. 6 Claims. (Cl. 105—255.)



1. In combination with a car body having hinged flaps, a toggle joint means for controlling the simultaneous opening of said flaps, means to give to said first named means a locked position past the dead center of said toggle, said toggle joint means comprising a lost motion connection for releasing the lock of said toggle without thereby giving the said flaps an oscillatory movement.

1,429,057. INDICATING DEVICE FOR THEATER SEATS. DAVID R. ALLEN and JOHN FRANEK, Omaha, Nebr. Filed Sept. 3, 1920. Serial No. 408,063. 2 Claims. (Cl. 116—114.)



1. A chair having a signalling element above the seat, said element having a casing provided with a housing and an opening above the housing, a signal opposite the opening, a shutter slidable in the casing over said opening, a spring in the housing connected to the casing and shutter to urge the latter to closed position, and a means to operate the shutter.

1,429,058. MOISTENER FOR STAMPS, ENVELOPES, TAPE, ETC. CHARLES WILLIAM BEISER, Brooklyn, N. Y. Filed June 7, 1921. Serial No. 475,694. 6 Claims. (Cl. 91—54.4.)



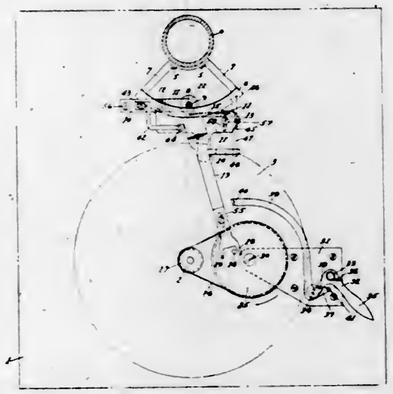
1. A moistener consisting of an ornamental figure or statuette hollow to provide a water reservoir and having a hollow head portion with a protruding tongue part, a wick secured to the tongue portion and depending into the reservoir, the end of the wick resting on the tongue portion and exposed and accessible at its upper surface.

1,429,059. NONSET AUTOMATIC STOP MECHANISM. ISAAC BELLOCH, New York, N. Y. Filed June 21, 1921. Serial No. 479,174. 13 Claims. (Cl. 192—116.)

1. In a phonograph, a tone arm, a braking mechanism including an oscillatable arm, means for oscillating said arm, and additional means for moving said arm comprising a lever, arm actuating means controlled by said lever and cam mechanism controlled by said tone arm for pivoting said lever.

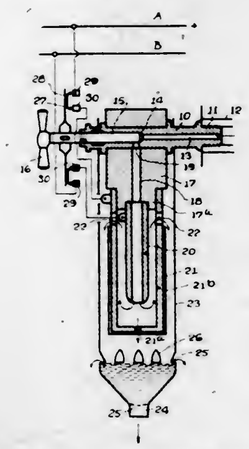
5. In a phonograph, a tone arm, a turn-table, a brake therefor and a non-set automatic tripping mechanism for

said brake comprising a rack secured to the tone arm, a pinion operated thereby, a shaft secured to said pinion, a ratchet secured to said shaft, a pawl and carrier rotated thereby when said pinion is rotated in one direction, a second pinion freely rotatable on said shaft and rotated in one direction by said carrier, resilient means preventing rotation of said second pinion in the opposite direction, an arm having a hub frictionally engaged between the pawl carrier and said second pinion, said shaft carried mechanism being adapted to move said arm



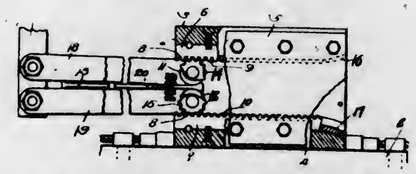
in one direction only, means for moving said arm in said one direction independently of said mechanism, comprising a lever pivoted so that at times one end is depressed by said rack, a resilient device controlled by the other end, said resilient device being in the path of movement of said arm only when the opposite end of the lever is depressed by said rack, a means for moving said arm in the opposite direction, and a brake tripping mechanism in the path of movement of said arm and adapted to be tripped upon a sufficient movement of said arm in said opposite direction.

1,429,060. WATER-HEATING FAUCET. OTTO F. BRUMAN, Zurich-Enge, Switzerland, assignor to Fosta A.-G., Zurich, Switzerland. Filed Apr. 13, 1921. Serial No. 461,079. 7 Claims. (Cl. 219—40.)



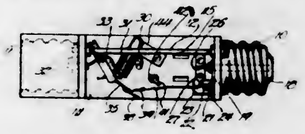
1. A water heating attachment for faucets comprising an insulating body directly connected to the faucet barrel, said body having a bore extending through it and connecting with the bore of the faucet barrel, a cup-shaped electrode suspended from the insulating body and provided with ports near its upper end, and a shorter and second electrode having a bore extending therethrough enclosed in and spaced apart from the cup-shaped electrode, said electrode being directly connected with the insulating body so as to register with the bore thereof.

1,429,061. APPARATUS FOR ROLLING METAL. JAMES ROBERT COE, Waterbury, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed June 12, 1920. Serial No. 388,423. 11 Claims. (Cl. 80—31.1.)



1. In an apparatus for rolling metal, the combination of two juxtaposed rollers having rolling surfaces completely surrounding their body portions, two relatively fixed tracks having opposing faces, said tracks engaging the body portions of said rollers so as to contact with said rolling surfaces, and means for maintaining the plane passing through the axes of said rollers substantially at a right angle to a plane medial to said tracks.

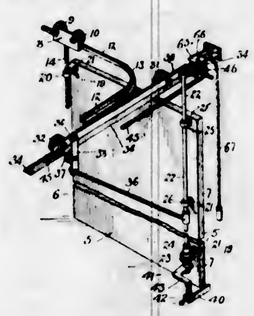
1,429,062. CIRCUIT-INTERRUPTING MECHANISM. MARTIN V. CORNICA, Chicago, Ill. Filed Apr. 20, 1921. Serial No. 462,884. 2 Claims. (Cl. 200—90.)



2. An attachment for electric light circuits having a plug at one end and a socket at the other, and comprising in combination an electrical conductor connecting one element of said plug with one element of said socket, a pair of electric make and break contacts, and the coil of an electromagnet included in the second conductor connecting another element of said plug with another element of said socket, a plate supporting one of said electric make and break contacts, and means to hold said plate frictionally in electrical contact with a conducting portion of the circuit included between the second element of the plug and socket, an extension from said plate, an armature for said electromagnet having a pair of fingers, one finger adapted to engage said extension when the armature is attracted, the other finger adapted to engage said extension when the armature is released, the weight of the armature being sufficient to move said plate to unite said electrical contacts when one finger engages said extension, the armature being positioned diagonally to the axis of the structure so that gravity will act upon the armature when the device is either in a vertical position or in one of its horizontal positions.

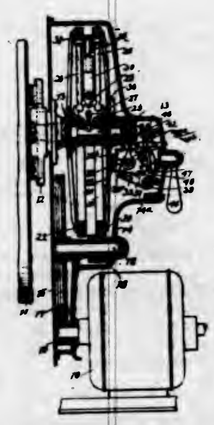
1,429,063. DOOR. ANTHONY L. CRESCI, Vineland, N. J. Filed Oct. 6, 1919. Serial No. 328,709. 3 Claims. (Cl. 20—19.)

1. A sliding door mounted adjacent to a doorway wall and adapted to open along a side wall, a track extending along the side wall, a trolley hanger mounted on said track and hingedly connected with the door, a guide located in a fixed position between the side wall and the



door when in the open position, an arm having an angular extension adapted to extend around the edge of the door into engagement with the said guide, and means for securing the said arm in a fixed position upon said hanger.

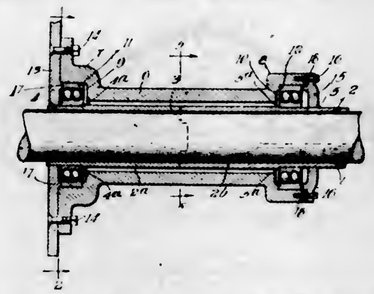
1,429,064. WASHER-DRIVE MECHANISM. ARTHUR R. CURTIS, Cleveland, Ohio. Filed Nov. 18, 1918. Serial No. 262,964. 16 Claims. (Cl. 74—50.)



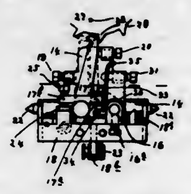
1. The combination with a shaft to be rotated, of a pair of driving members adapted to be rotated in opposite directions and to be successfully clutched to said shaft so as to reverse the direction of rotation of said shaft at intervals, a clutch device having a pair of expansible clutch members within said driving members and adapted to be expanded into engagement therewith, and means comprising a rocking member carried by said device for causing one clutch member to be expanded and the other to be substantially simultaneously contracted.

1,429,065. HUB FOR LOOSE PULLEYS, CLUTCHES, HANGER BEARINGS, AND THE LIKE. WILLIAM F. DAGGETT, Chicago, Ill. Filed Dec. 18, 1919. Serial No. 345,803. 19 Claims. (Cl. 64—36.)

1. A device of the class specified having a central space or chamber, ball bearings at the ends of said space or chamber, a transversely split sleeve in said space or chamber to permit individual removal of the sleeve sections and ball bearings, said ball bearings being mounted as complete units upon said sleeve sections and interposed between the same and the inner walls of said space or chamber, and means for closing the ends of said space or chamber, said sleeve passing through said closing means.

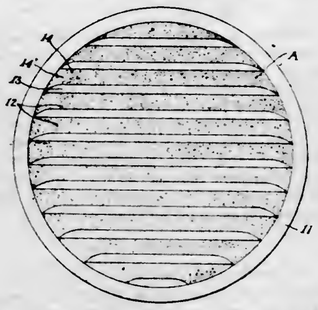


1,429,066. ESCAPEMENT DEVICE FOR TYPEWRITING MACHINES. LOUIS P. DISS, Ilion, N. Y. Filed Oct. 1, 1920. Serial No. 414,083. 13 Claims. (Cl. 197—82.)



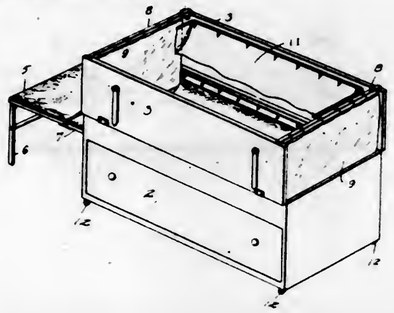
1. In a letter spacing escapement for typewriting machines, the combination with a spring tensioned carriage and a toothed escapement member operatively connected thereto, of a movable holding dog, a stepping spacing dog arranged to stop the carriage at the end of its letter space movements, a spring placed under reactive tension by the movements of the carriage and adapted to actuate said spacing dog, and to effect initial retraction of the holding dog on the instant of the type reaching the platen.

1,429,067. NONGLARING DEVICE FOR LAMPS. FREDERICK J. DOLE, New York, N. Y. Filed Nov. 15, 1917. Serial No. 202,119. 4 Claims. (Cl. 240—48.4.)



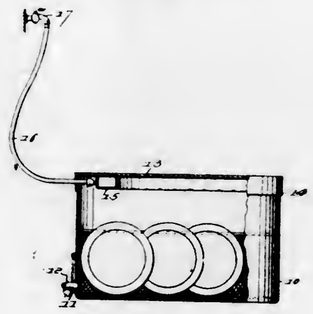
1. A non-glaring device comprising a plurality of horizontal louvres arranged one above the other and each provided with an outwardly and downwardly inclined dimmed upper face, and an upwardly and outwardly inclined freely transparent lower face disposed at an angle of about 60 degrees to the plane of the device.

1,429,068. STEAMER TRUNK. MARIA H. P. DROSTE, Manati, P. R. Filed Apr. 7, 1921. Serial No. 459,289. 3 Claims. (Cl. 190—2.)



1. A bed-forming trunk comprising a rectangular body having a drawer receiving space located in a plane below the upper edges of said body, a drawer received by the space, leaves hinged to the upper edges of the sides of the body to close the top of the latter when in a position and to form sides of a bed when in another position, a bed-forming means carried by the walls of the body above said space, and drapery poles engaging said leaves to support them in their second named position.

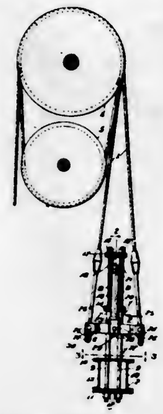
1,429,069. DISHWASHER. FLORENCE H. DUNN, Kansas City, Mo. Filed Aug. 10, 1921. Serial No. 491,274. 1 Claim. (Cl. 141—9.)



A dish washing apparatus consisting of a receptacle provided near its bottom with an outlet, a lid removably fitted upon the receptacle and formed on its under face with an annular distributing nozzle of π diameter slightly less than the diameter of the cover, the said nozzle being formed with perforations on its under face for the discharge of a cleansing agent in the direction of the bottom of the receptacle and from the vicinity of the walls thereof, and a flexible tubular member connected with said nozzle and adapted for connection with a spigot in the manner and for the purpose specified.

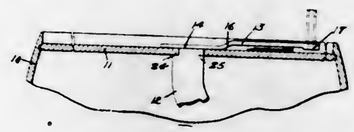
1,429,070. SUSPENSION DEVICE FOR EQUALIZING THE STRAIN ON ELEVATOR CABLES. JOSEPH E. EVANS, Bedford, Ind., assignor of one-fourth to Oliver N. Clifford, St. Louis, Mo., and one-fourth to Jasper O. Gyger, Bedford, Ind. Filed May 29, 1919. Serial No. 300,726. Renewed Jan. 23, 1922. Serial No. 531,314. 19 Claims. (Cl. 187—1.)

1. A suspension device for connecting an elevator car to a group of cables arranged to engage a supporting pulley, said device comprising a plurality of intercommunicating cylinders secured to the car, a corresponding plurality of pistons arranged in said cylinders, and equalizing bars



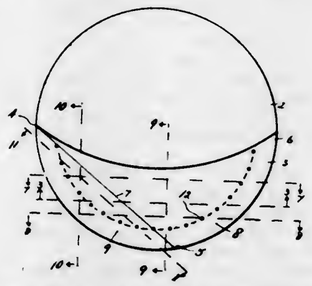
pivotally connected at their centers to said pistons and at their opposite ends to separate cables, said bars being arranged transversely of a vertical tangential plane passing through the periphery of said supporting pulley.

1,429,071. AGITATOR HANDLE. CHARLES E. FARRINGTON, Philadelphia, Pa. Filed Feb. 28, 1920. Serial No. 362,097. 6 Claims. (Cl. 74—33.)



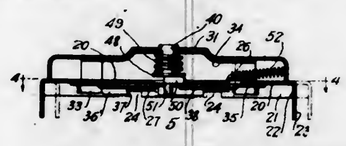
1. A handle for actuating a rotatable element, comprising an arm having a threaded aperture at one end and a crank-pin having a threaded end for engagement with said aperture so that said pin may be detachably secured to said arm, said arm having in one face an open recess in which said pin may be nested and clamped against a flat surface when unscrewed from said aperture.

1,429,072. PRISM FOR HEMOGLOBINOMETERS. KARL FUCHS, Ateo, N. J. Filed May 19, 1921. Serial No. 470,867. 5 Claims. (Cl. 88—14.)



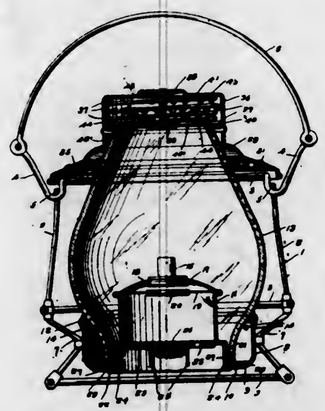
1. A prism for hemoglobinometers including a primary prism portion and a secondary prism portion separated by a line of demarcation, the primary prism portion increasing in thickness from a knife edge toward said line of demarcation and the secondary prism portion increasing in thickness in parallelism with said line of demarcation.

1,429,073. BAG FASTENER. FRANZ A. FULLER, Newark, N. J., assignor to The J. E. Mergott Company, Newark, N. J., a Corporation of Delaware. Filed Dec. 3, 1920. Serial No. 427,945. 4 Claims. (Cl. 70—2.)



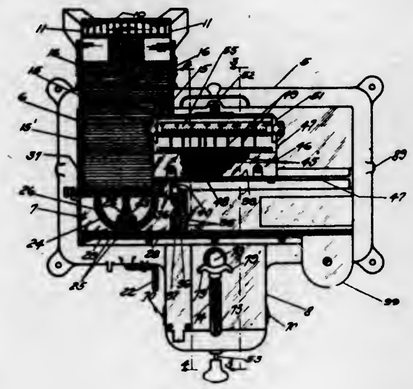
3. The combination in a bag fastener comprised of engaging elements fixed respectively on the frames of a bag, one of said elements carrying a longitudinal slide having means for engaging the other element, of a post rotatably mounted in the sliding member, said post having an opening receptive of a key whereby it may be rotated, a plate slidable in the element carrying the slide, said plate being moved thereby, an internal cam in said element above said plate, an offset lug on said post operable in said cam, said cam limiting the movement of said lug, a stop on said plate engageable by said lug over which the lug rides when rotated, means for pressing said post towards said plate and means carried by said plate engageable with the other of said fixed elements.

1,429,074. RAILROAD LANTERN. EDWARD D. GRIFFITH, Tucson, Ariz. Filed July 23, 1920. Serial No. 398,381. 1 Claim. (Cl. 240—38.)



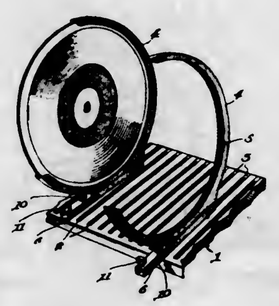
A lantern having a burner, a globe therefor, a plate provided with an inclined wall to rest on the upper end of said globe and having openings therethrough, deflecting elements secured to said wall and disposed over and partly closing said openings, a cap over said plate, an expansive spring intermediate said cap and plate, said cap being closed at its top and having draft openings through its side walls, deflectors integral with and struck out from said plate to provide the first mentioned openings, said deflectors extending over and above said deflecting elements, and resilient fastening members extending from said cap through said plate intermediate the first mentioned openings and being deflected in opposite directions and in contact with the lower surface of said plate.

1,429,075. LINOTYPE-BAR CUTTING OR BROACHING MACHINE. ARTHUR J. HARDER, Chicago, Ill. Filed Jan. 7, 1920. Serial No. 350,033. 15 Claims. (Cl. 90—25.)



1. In a broaching machine for slugs, a longitudinally operable broaching die, a slug carriage, means for stepping said carriage transversely of said broaching die upon each operation of said die, and means for determining the length of each step of said carriage.

1,429,076. RECORD HOLDER. NIMROD A. HELSLEY, Grafton, W. Va. Filed Apr. 3, 1922. Serial No. 549,031. 7 Claims. (Cl. 211—16.)



1. In a device of the class described, a horizontally extending base member, and a plurality of individual record holders each independently and slidably mounted on said base member, each holder comprising two relatively movable parts.

2. In a device of the class described, a horizontally extending base member, a plurality of individual record holders each independently and slidably mounted thereon, each holder comprising two members pivoted together, and means for normally urging one of said members toward the other.

1,429,077. ILLUMINATED SIGN. JOSEPH HOTCHNER, San Francisco, Calif. Filed Dec. 19, 1919. Serial No. 346,162. 5 Claims. (Cl. 40—130.)

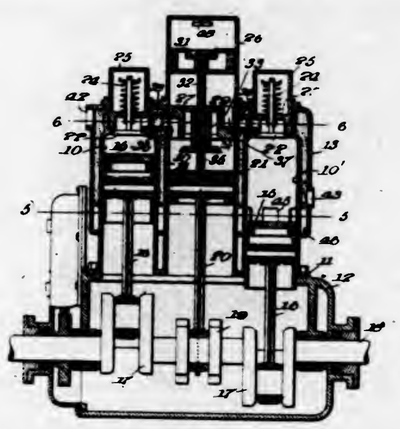
1. An illuminated sign comprising a sign body, illuminated characters carried thereby, a trough in the upper and lower portion of the sign body, supports above and below

the sign, a sign panel carried by each support, means to detachably hold other sign panels in place against the sup-



port and at an angle to the face of the sign body, and lamps in each trough for illuminating the detachable sign panels.

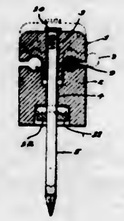
1,429,078. TWO-CYCLE INTERNAL-COMBUSTION ENGINE. JOB HUTCHINSON, Brooklyn, N. Y. Filed Mar. 30, 1920. Serial No. 369,937. 26 Claims. (Cl. 123—59.)



1. In a two-cycle motor, the combination with an internal combustion cylinder having exhaust ports in the wall thereof and a single diameter power piston working in said cylinder, of a charge compressing pump adjacent said cylinder proportioned and arranged to deliver a charge under pressure to said cylinder, said delivery being begun while the exhaust ports are being opened, continued during the period when they are being closed, and continued after they are closed.

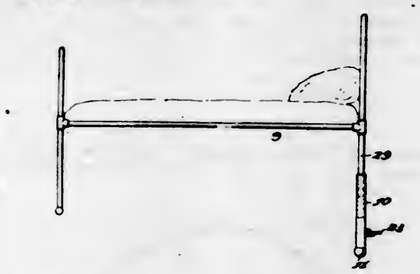
1,429,079. SPLIT INSULATOR. CHARLES W. KETTRON, Macomb, Ill., assignor to Illinois Electric Porcelain Company, Macomb, Ill., a Corporation of Illinois. Filed Feb. 4, 1916. Serial No. 76,111. 6 Claims. (Cl. 173—314.)

5. An insulator formed of sections, a fastening device loosely inserted through and normally holding the sections in associated relation, the fastening device having a smooth surface construction, and retention means adjustably and frictionally held on said fastening device and operating to primarily hold all the parts of the in-



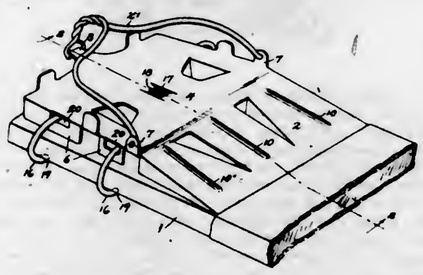
sulator intact on the fastening device prior to the application of the insulator, the retention means being shifted on the smooth surface of the fastening device by engagement thereof with the surface against which the insulator is applied.

1,429,080. HOSPITAL BED. AMBROSE M. KIRBY, St. Louis, Mo. Filed Nov. 12, 1921. Serial No. 514,531. 3 Claims. (Cl. 5—41.)



2. A device of the character described comprising a frame in combination with a hospital bed to which said frame is attached, a pair of hollow standards in which the post of the bed is telescopically mounted, a ratchet bar forming a part of the frame, a sliding ratchet mounted on the ratchet bar and cables leading from the sliding ratchet to the posts of the bed for elevating the bed when pressure is applied to the sliding ratchet, substantially as specified.

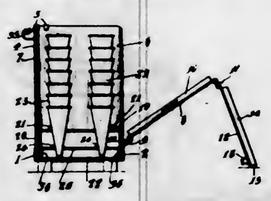
1,429,081. ATTACHMENT FOR IRONING BOARDS. MAXEMILIAN E. KOEHLER, Washington, D. C. Filed June 4, 1921. Serial No. 474,925. 3 Claims. (Cl. 68—27.)



1. An attachment for holding an iron on an ironing oard, comprising a metal body portion inclined at its

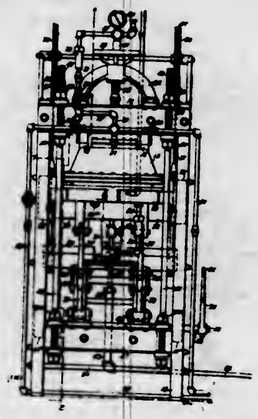
forward end and merging into a substantially horizontal portion, a clamp comprising a spring and two oppositely disposed hook members attached to the spring and extending through openings formed in the body portion, whereby to form a clamp to secure the attachment to an ironing board.

1,429,082. SANITARY CASE. SAMUEL A. KORNAWEET, Los Angeles, Calif. Filed Apr. 14, 1921. Serial No. 461,273. 3 Claims. (Cl. 211—25.)



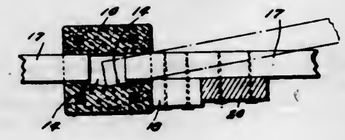
2. In a sanitary case, a receptacle having a lid, hangers having hooks at their upper ends engaging over the upper margins of the end walls of the receptacle and having laterally extending hooks at their lower ends, and a tray having perforations engaged by the lower hooks.

1,429,083. HAT-MACHINE PRESS. JAMES LAKE, Jr., Brooklyn, N. Y., assignor to James Lake's Sons, New York, N. Y., a Corporation of New York. Filed Jan. 6, 1919. Serial No. 269,876. 5 Claims. (Cl. 223—31.)



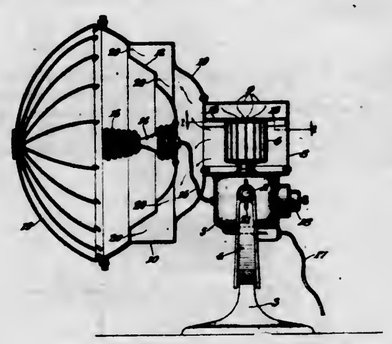
1. A press as characterized comprising a plurality of standing side frames disposed in spaced relation each of said frames having vertical guides on the inner faces thereof; a rigid cross head fixedly mounted on said standing frames adjacent the upper ends thereof; a movable cross head extending between said frames and engaging the guide members thereof; a plurality of suspension rods operatively connecting said fixed and movable cross heads, and screw nuts engaging said rods for raising or lowering the same to establish the working distance between said cross heads; a liquid press fixedly mounted and dependent from the first mentioned cross head; a movable mold carrying table, said table engaging the standing frames in guided relation; elevating means for said table embodying a plurality of toggle levers, said levers being pivotally connected and operatively engaging said second mentioned cross head and said table, the points of engagement for said levers with said table and said second mentioned cross head being at opposite sides of the center of said cross head and table for distributing the strain applied by said pressure member; manual means for placing the said toggle levers in rigid locked position between said cross head and table, said means embodying a rocking shaft supported on said second mentioned cross head and laterally disposed thereto; a hand lever for rocking said shaft; articulated means operatively connecting said rocking shaft and the pivotal joint of said toggle levers to place said toggle levers in locked straight line position between said table and cross head supporting same; and a plurality of bracket members integrally formed on said toggle levers adjacent the pivotal connection thereof for arresting the movement of said toggle levers at a point where said pivotal connection has slightly passed the vertical plane incorporating the pivotal connections of said levers with said table and cross head supporting the same to automatically lock the toggle joints to prevent the collapsing thereof by the pressure applied on said table by said press.

1,429,084. FENCE. JOSEPH E. LOEFFLER, St. Louis, Mo. Filed Apr. 19, 1921. Serial No. 462,496. 4 Claims. (Cl. 256—24.)



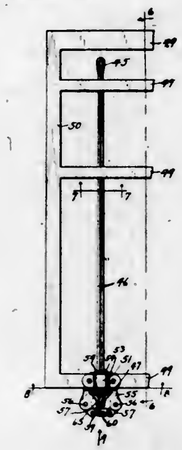
1. In a fence, posts provided with horizontally disposed seats, the side walls of which are divergent, and longitudinal rails, the lengths of which are less than the distance from the center of one post to the adjacent side of the next post to permit said rails to be placed in position, substantially as described.

1,429,085. HEATING APPARATUS. ALEXANDER MCGARY, New York, N. Y. Filed Feb. 28, 1921. Serial No. 448,678. 10 Claims. (Cl. 219—42.)



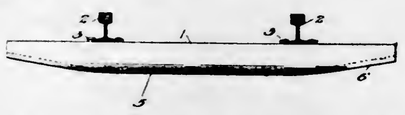
1. An electrical heating apparatus having in combination, a supporting frame, an electric motor mounted to swing on said frame, a reflector carried with the motor, an electrical resistance heating element operatively positioned in the reflector, a fan driven by the motor and positioned to drive a current of air past the heating element and out from the reflector.

1,429,086. NECKTIE HOLDER. MATHIAS MAGNUSON, Chicago, Ill. Filed Sept. 27, 1920. Serial No. 413,198. 8 Claims. (Cl. 211—14.)



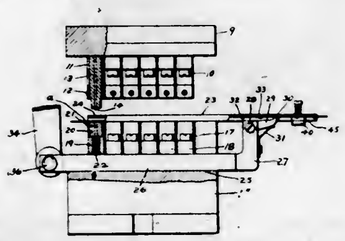
3. A neck tie holder comprising a single piece of bent wire forming a tie hook, a pair of clamping jaws, a connecting stem, and an arm on each jaw; and resilient means connected with said arms tending to hold the jaws together.

1,429,087. RAILWAY TIE. JOHN NEIMEYER, Trenton, Ohio. Filed Sept. 12, 1921. Serial No. 500,156. 7 Claims. (Cl. 238—30.)



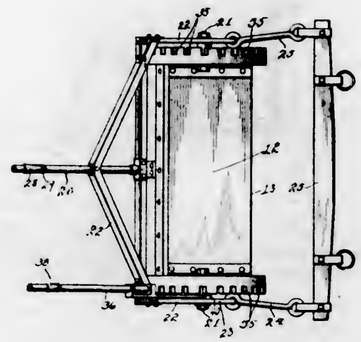
1. A wooden railway tie having beveled underfaces at its ends, and grooves in said faces merging with the bottom of the tie, said grooves forming lateral ribs merging with the bottom of the tie.

1,429,088. MACHINE FOR MAKING SNAP FASTENERS. HENRY S. NORMAND, Waterbury, Conn., assignor to Consolidated American Fastener Companies, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 8, 1916. Serial No. 135,744. 11 Claims. (Cl. 79—3.)



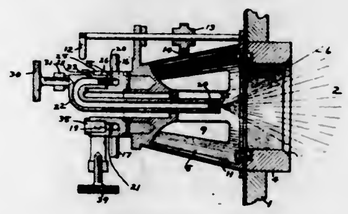
11. In a machine of the character described, the combination of opposed dies for forming a series of bulges or cups in a metal strip, a guide for the metal strip located between the dies, and means co-operating with one of said dies tending to press the strip up against said guide and prevent hindrance from the bulges or cups to the advance of said strip during the feed stroke of the reciprocating pawl.

1,429,089. ROTARY SCRAPER. CHARLES R. OLBERG, Alhambra, Calif., assignor of one-half to Francis R. Schanck, Chicago, Ill. Filed Nov. 28, 1919. Serial No. 341,255. 20 Claims. (Cl. 37—40.)



1. A scraper comprising a bowl; a bail pivoted to the bowl; arms on the bail extending downwardly below the pivot of the latter; and draft means attached to the lower ends of said arms.

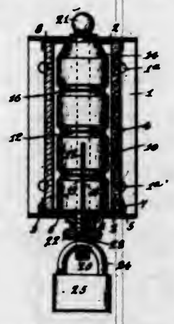
1,429,090. FUEL BURNER. HAYLETT O'NEILL, Larchmont, and ERNEST FANDRICH, Schenectady, N. Y. Filed June 1, 1918. Serial No. 237,707. 7 Claims. (Cl. 110—22.)



4. Apparatus for supplying fuel to a combustion chamber through an opening therein, comprising a plurality of fuel supply conduits for supplying different kinds of fuels, a coupling member at the end of each conduit to one of which a tuyere-bearing pipe may be connected for discharging the desired kind of fuel, and means for supporting said coupling members in proximity to said opening.

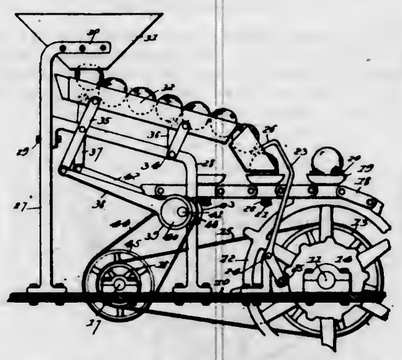
1,429,091. LICENSE HOLDER. JOSEPH OFFMAN, Connellsville, Pa., assignor of one-half to Abraham I. Daniels, Connellsville, Pa. Filed Nov. 23, 1921. Serial No. 517,228. 8 Claims. (Cl. 40—10.)

8. A license holder for vehicles comprising a transparent license casing permanently closed at one end and having a removable closure at the other, a core mounted in said casing and filling it except for a space between it and the casing sufficient to receive the license, said core having a plurality of longitudinally spaced peripheral grooves, longitudinal slots intersecting said grooves, and pivoted



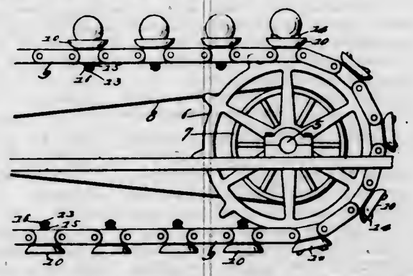
spurs mounted in said grooves at their points of intersection with said grooves and operable to engage a license when an attempt is made to withdraw it.

1,429,092. FRUIT-TRANSFERRING DEVICE. GEORGE R. PARANTEAU, Ventura, Calif. Filed Mar. 16, 1921. Serial No. 452,871. 7 Claims. (Cl. 198—218.)



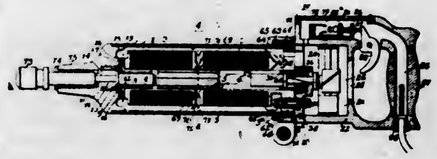
1. In a fruit transferring device including a chute having sides mounted for reciprocation, means for reciprocating the said sides oppositely, and means for delivering fruit to the chute.

1,429,093. CONVEYER FOR FRUIT. GEORGE R. PARANTEAU, Ventura, Calif. Filed Mar. 16, 1921. Serial No. 452,872. 3 Claims. (Cl. 198—144.)



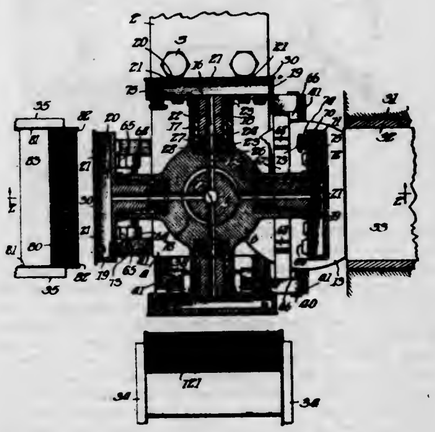
1. In a fruit conveyer, a sprocket chain, a sprocket wheel over which the chain is run, cups carried by links of the chain, a supplemental cup having its sides omitted in each of the first mentioned cups, the said first mentioned cups and links having apertures therein, shanks on the supplemental cups extending through the apertures of the first mentioned cups and links, and means for holding the inner ends of the shanks normally inside of the inner surfaces of the links.

1,429,094. ELECTRIC HAMMER. LOUIS PAULERO, Petersburg, Va., assignor to American Electric Tool Company, Incorporated, Petersburg, Va., a Corporation of Virginia. Filed Dec. 5, 1917. Serial No. 205,503. 23 Claims. (Cl. 172—126.)



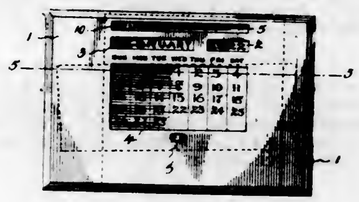
1. In an electric hammer, a reciprocating plunger, electromagnetic means for reciprocating the plunger, and rotatable means for forcing a current of air around the plunger and said electromagnetic means.

1,429,095. SEALING OR LABELING MACHINE. FRANK M. PETERS and WARREN H. HUNGERFORD, Chicago, Ill., assignors to Peters Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 23, 1919. Serial No. 332,715. 11 Claims. (Cl. 216—55.)



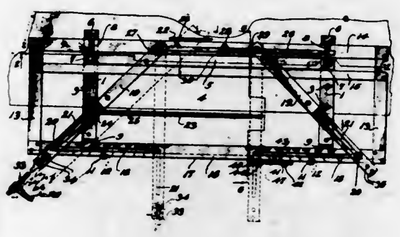
1. In an apparatus of the class described, the combination of a sticker blank magazine and a holder for an article, a sticker blank carrier movable from a position adjacent the magazine to a position adjacent the carrier, and an auxiliary sticker blank magazine adjacent the path of the carrier and intermediate of the first mentioned magazine and the article holder.

1,429,096. CALENDAR. PHILIP C. PETHICK, New Haven, Conn. Filed Feb. 25, 1922. Serial No. 539,159. 8 Claims. (Cl. 40—109.)



1. In a calendar of the class described, a body having apertures and separate year, month and day index members for selectively displaying indices representing respectively years, months and days, also code and guide numbers or characters provided respectively on said year and day index members and which code and guide numbers or characters are automatically obtained and provided to operate as determining factors only in the adjustment of the calendar; said index members being capable of determinable adjustment under guidance of said code and guide numbers or characters whereby the calendar is adjustable to present a precise reading without any omission or addition therefrom or thereto.

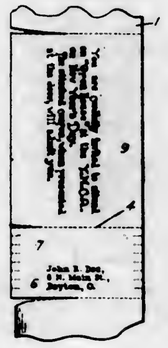
1,429,097. DADO AND MITER ATTACHMENT FOR SAW TABLES. FRANCIS V. PHILLIPS, deceased, by Kate Phillips, administratrix, Orlando, Fla. Filed May 12, 1921. Serial No. 468,899. 7 Claims. (Cl. 143—168.)



1. A dado and miter attachment for a saw table comprising a base frame having end bars, longitudinally extending bars connecting said end bars, rollers rotatably mounted above said end bars, a sliding carriage having end bars and longitudinally extending bars connecting its end bars with one of the longitudinally extending bars of the sliding frame extending beneath the rollers of the base frame and one of the longitudinally extending bars of the base frame positioned between certain of the longitudinally extending bars of the sliding frame, roller elements carried by one of the longitudinally extending bars of the base frame and engaging one of the longitudinally extending bars of the sliding frame, gauging elements adjustably connected with the sliding frame, and clamping means for holding a board upon the sliding frame and in engagement with the gauging elements.

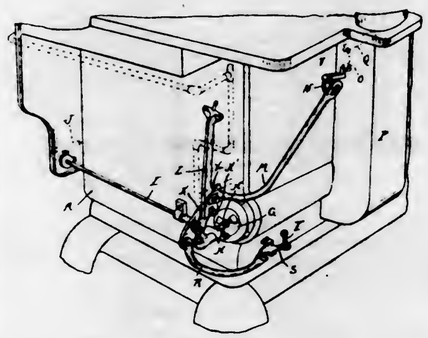
1,429,098. COMBINATION TICKET AND IDENTIFYING MEANS. EDWIN G. PICKERING, Dayton, Ohio. Filed Feb. 9, 1921. Serial No. 443,509. 1 Claim. (Cl. 283—18.)

An identifying device made of a strip of paper scored to form a ticket section and an identifying section divided into a plurality of spaces, each one of which is equal in



width to the single space of a typewriter, and printed matter on each section.

1,429,099. COMBINATION GAS AND COAL RANGE. WILLIAM V. ROBINSON, Owosso, Mich., assignor to The Independent Stove Company, Owosso, Mich., a Corporation of Michigan. Filed May 16, 1921. Serial No. 470,133. 9 Claims. (Cl. 126—36.)

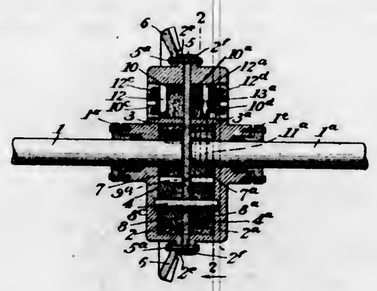


1. A combination gas and coal range comprising an oven having a slotted side wall, a gas burner having a hollow arm pivotally mounted outside of the oven chamber and adapted to be swung inward or outward through said slot, and means for supplying a combustible gaseous mixture to said hollow arm.

1,429,100. DIFFERENTIAL GEAR. DAVID E. ROSS, Lafayette, Ind., assignor to Ross Gear and Tool Company, Lafayette, Ind., a Corporation of Indiana. Filed Apr. 23, 1917. Serial No. 163,940. 10 Claims. (Cl. 74—99.)

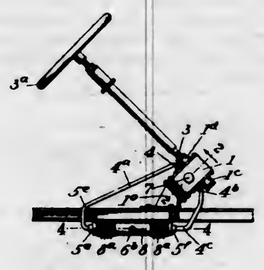
1. A differential gear having adjacent pump chambers and ports connecting the said chambers so as to make a closed circuit for fluid between them; intermeshing inner and outer rotary gears in said pump chambers; axle sections respectively connected to pump-gears in adjacent chambers; and fluid filling said chambers whereby the said

gears are normally held against relative rotatorial displacement, but the outer gear of either pump may be



permitted an orbital movement relative to the inner gear, substantially as specified.

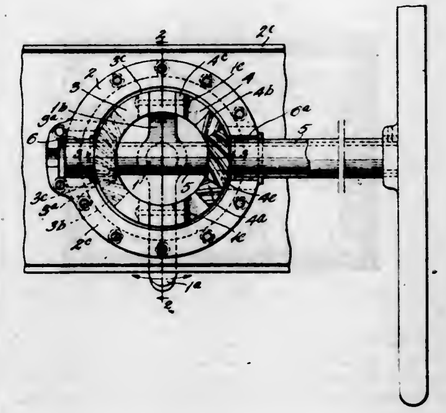
1,429,101. STEERING GEAR. DAVID E. ROSS, Lafayette, Ind., assignor to Ross Gear and Tool Company, Lafayette, Ind., a Corporation of Indiana. Filed Apr. 26, 1917. Serial No. 164,745. 3 Claims. (Cl. 188—23.)



1. In a fluid controlled steering gear, a cylinder having a longitudinal slot; a piston in said cylinder closing said slot; a sleeve slidably mounted on the cylinder and covering the slot therein and movable with the piston to exclude dust from the interior of the cylinder; means connected with said piston and extending through the slot in the cylinder and the sleeve and adapted to be connected with the steering members of a vehicle; manually operable means for forcing fluid; and means for conducting fluid from said operable means to and from the cylinder at opposite ends of the piston.

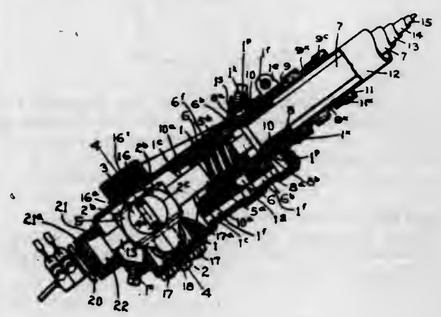
1,429,102. STEERING GEAR. DAVID E. ROSS, Lafayette, Ind., assignor to Ross Gear & Tool Company, Lafayette, Ind., a Corporation of Indiana. Filed Mar. 7, 1921. Serial No. 450,464. 10 Claims. (Cl. 74—79.)

1. In a steering gear, a rocker shaft, a steering shaft member approximately at right angles thereto, a pair of oppositely disposed toothed segments attached to the inner end of the rocker shaft and lying on opposite sides of the axis of said shaft, and also on opposite sides of the axis



of the steering shaft, and gears on the steering shaft member respectively meshing with the related one of said segments.

1,429,103. STEERING GEAR. DAVID E. ROSS, Lafayette, Ind., assignor to Ross Gear & Tool Company, Lafayette, Ind., a Corporation of Indiana. Filed Nov. 4, 1921. Serial No. 512,878. 28 Claims. (Cl. 74—79.)

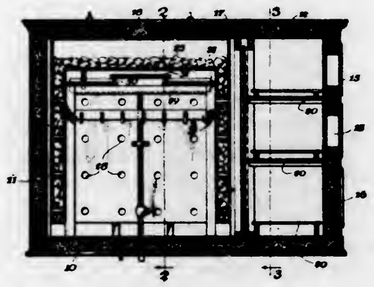


1. In a steering gear the combination of a casing, a slidable actuating member therein having a threaded portion, a rotatable nut mounted in said casing engaging the threaded portion of the actuating member, a steering shaft for operating the nut, means for preventing longitudinal movement of the nut in the casing, a rocker shaft journaled in the casing at substantially right angles to the actuating member, an arm on the rocker shaft projecting beside the actuating member, a disk mounted in said arm, and means on the actuating member engaging said disk whereby when the nut is rotated the actuating member is reciprocated and the rocker shaft rocked, substantially as described.

1,429,104. REFRIGERATOR. EDWARD H. ROY, Louisville, Ky. Filed Apr. 26, 1922. Serial No. 556,728. 4 Claims. (Cl. 62—68.)

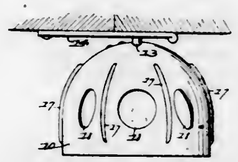
1. In a refrigerator, a casing, a grill work dividing said casing into a plurality of compartments having free air communication with each other, an ice box in one of said

compartments having hollow walls forming ice receiving spaces, a series of shelves in the other compartment to divide the same into a plurality of small compartments



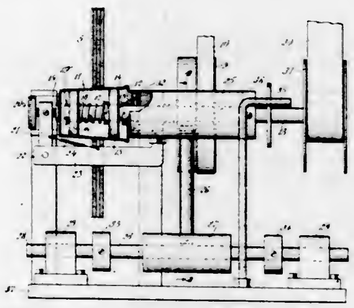
each having the grill for its back air vent tubes passing through the walls of said ice box to afford communication between the interior and exterior thereof, and independent access means to the several compartments and ice box.

1,429,105. PADLOCK PROTECTOR. ALLEN W. RUDY, Dalton, Ohio. Filed Aug. 3, 1921. Serial No. 489,440. 4 Claims. (Cl. 70—16.)



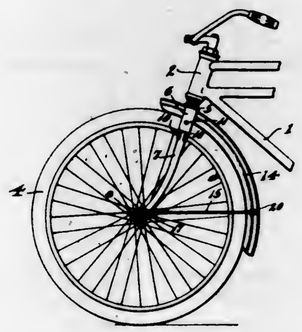
1. A padlock protector consisting of a domed or bell shaped housing for receiving the padlock and provided at its closed end with means for engaging the staple with which the shackle of the padlock is engaged.

1,429,106. GLASS-GRINDING MACHINE. EDWARD A. RYON, Pittsburgh, Pa., assignor to Fred. W. Siemens, Wellsboro, Pa. Filed July 22, 1919. Serial No. 312,479. 8 Claims. (Cl. 51—237.)



1. In a glass banding machine, a cutting member, a swinging support movable toward and away from said cutting member and a rotatable work holder pivotally mounted on said swinging support and thereby adjustable to vary the angle of the face of the work with respect to the face of the cutting member, and yieldable means at the side of the cutting wheel for engaging and supporting the work as it is pressed against the cutting wheel.

1,429,107. BICYCLE. GEORGE W. SAGE, Jr., Port Chester, N. Y. Filed Oct. 26, 1920. Serial No. 419,583. 6 Claims. (Cl. 208—97.)



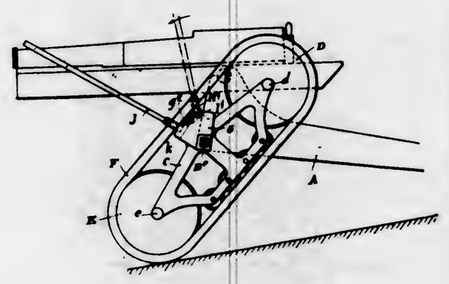
1. In a bicycle fork, the combination with a transverse head and a steering post upstanding therefrom, of fork arms extending downwardly from the head and each comprising telescoping sections of longitudinally tapering form, means for cushioning the movement of one of the sections relative to the other, and means for limiting the extent of telescoping movement of the sections, the telescoping portions of the sections being shaped and proportioned with respect to each other for preventing lateral or edgewise play.

1,429,108. FURNACE-DOOR PEDAL. LOUIS SCHAUMBURGER and HARRY HUGH CLARK, Terre Haute, Ind. Filed Feb. 1, 1921. Serial No. 441,614. 7 Claims. (Cl. 74—81.)



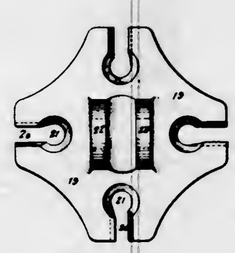
1. In a device of the class described comprising a lever for pivotal connection to a support, means carried by said lever adapted to actuate a valve stem, an arm also carried by said lever extending in close proximity to a floor or deck, a foot pedal carried by said arm, and means for adjusting said foot pedal in planes at right angles to each other and with respect to said arm.

1,429,109. TRAIL-CARRIAGE GUN MOUNTED ON ENDLESS TRACKS FOR VARYING THE HEIGHT OF THE LINE OF FIRE OF THE GUN. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed July 10, 1922. Serial No. 573,877. 7 Claims. (Cl. 89—40.)



7. A trail gun carriage comprising an endless track truck, an axle mounted on said truck, a trail secured to said axle and providing a fixed bearing point on the ground, and means secured to said truck for turning the truck in a substantially vertical plane about said axle.

1,429,110. INSULATOR. HALLER D. SEAVEY, Greenfield, Mass., assignor to Maxwell Engineering and Manufacturing Company, New York, N. Y., a Corporation of New York. Filed July 3, 1918. Serial No. 243,198. 1 Claim. (Cl. 173—318.)



An anchor for an insulator connecting loop, said anchor comprising an anchor plate having means projecting at right angles to the plane of the plate and substantially from the center of the latter for establishing connection between the anchor and a hanger, said plate having two pairs of sockets lying in the same plane and spaced around said centrally projecting means, and being of a shape to receive the enlarged heads of a connection loop, the margins of the plate having radial slots which form lateral passageways leading to said sockets to permit the lateral insertion of the shanks of the connector loop to said sockets, substantially as described.

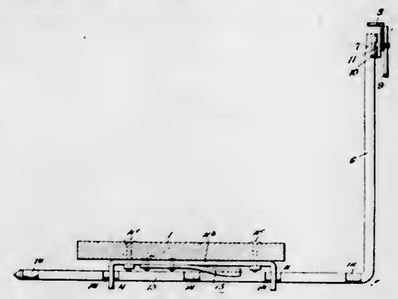
1,429,111. CLAMPING DEVICE FOR ARTIFICIAL ARMS. OSKAR SEMELEDER, Vienna, Austria. Filed Mar. 15, 1921. Serial No. 452,538. 7 Claims. (Cl. 3—12.)

1. A clamping-device for attaching implements to artificial limbs, comprising a relatively stationary bearing member, a relatively movable bearing member, a resilient member interposed between and bearing against said



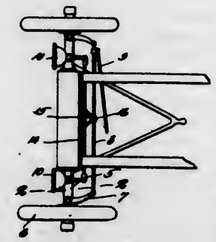
bearing members, and a flexible, inelastic member passing through said bearing members and bent upon itself to form a loop disposed beneath said movable bearing member.

1,429,112. AUTO LUGGAGE CARRIER. EUGENE SHEER, Lincoln, Ill. Filed July 26, 1921. Serial No. 487,678. 2 Claims. (Cl. 224—29.)



2. In an article carrier, the combination of bearings, a rod arranged in the bearings, an upstanding portion formed on the rod and having a square end, an angle arm secured to the square end of the upstanding portion, a spring interposed between the arm and upstanding portion, and a washer slightly smaller at its lower end in diameter arranged adjacent the square end of the upstanding portion, and means for moving the spring from its normal position.

1,429,113. HEADLIGHT. CHRISTOPHER C. SOMERS, Bend, Oreg. Filed Feb. 2, 1921. Serial No. 441,891. 1 Claim. (Cl. 240—62.)



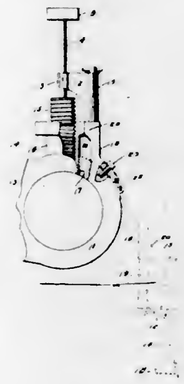
In combination with the connecting rod connecting the front wheels of a motor vehicle, lamp supporting brack-

ets, lamp supporting arms mounted in the brackets for pivotal movement therein, each of said arms having a lower right angled portion, an operating rod having its ends connected with the right angled portions of the arms, a triangular shaped extension formed integral with the operating rod at a point intermediate the ends thereof, arms having openings, forming a part of the extension, a pin extending through the connecting rod and having its ends disposed within the openings whereby movement of the connecting rod produces a relative movement of the operating rod.

1,429,114. CONVERSION OF FATTY ACIDS WITH SEVERAL DOUBLE LINKAGES OR OF THEIR GLYCERIDES INTO OLEIC-ACIDLIKE FATTY ACIDS OR THEIR SOAPS. CARL STIEPEL, Berlin, Germany, assignor to Persapol Gesellschaft mit beschrankter Haftung, Hanover, Germany. Filed Sept. 14, 1920. Serial No. 410,212. 2 Claims. (Cl. 87—12.)

2. A process for the conversion of fatty acids with at least two double linkages, or of their glycerides, into oleic acid-like fatty acids, or their soaps, in which the material is first saponified and thereafter the product is heated, to dryness without evaporation at a temperature between 210° to 250° F., without a material excess of alkali or alkaline earths, and thereafter recovering the fatty acids from the product by means of a mineral acid.

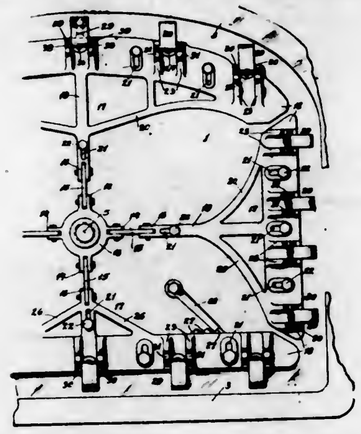
1,429,115. NONDISPLACEABLE GREASE CUP AND BUSHING ANCHOR. LAMONT H. STROUD, Sheridan, Wyo. Filed June 21, 1921. Serial No. 479,231. 1 Claim. (Cl. 184—48.)



In combination with a journal and a grease cup having a feeding stem and a notch, a bracket hinged to the journal and having an upstanding portion, a lug on said portion, means detachably securing the bracket to the journal against swinging movement relative to the latter and to hold the lug in the notch.

1,429,116. FASTENER FOR VAULT CLOSURES. SIDNEY TAYLOR, Galion, Ohio, assignor to E. P. Monroe, Galion, Ohio. Filed Jan. 28, 1921. Serial No. 440,689. 8 Claims. (Cl. 292—45.)

1. In a vault closure, the combination of a door, a spindle projecting through the door, a flange on said spindle at the inner side of the door, packing between said flange and the door, a nut locked on the spindle at the outer side of the door, packing interposed between said nut and the door, a carrier threaded upon the inner end of the spindle, locking plates slidably mounted upon the inner side of the door, and links each pivoted at one end to the carrier and at its opposite end to a locking plate whereby upon actuation of the spindle the links will be caused to move toward a position in parallelism with



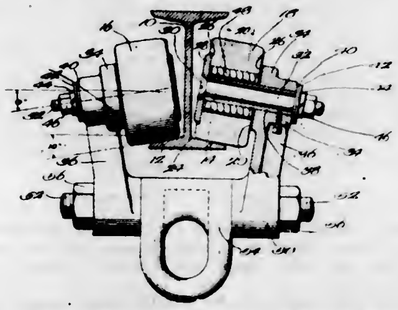
the door and the locking plates will be caused to slide outwardly.

1,429,117. BOLT-RETAINING DEVICE. GEORGE B. THOMAS, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, a Corporation of Connecticut. Filed June 29, 1920. Serial No. 392,830. 6 Claims. (Cl. 85—1.)



1. A body pierced to accommodate a securing bolt, a bolt passing therethrough, and means in gripping engagement with the wall of the hole through which the bolt passes and engaging said bolt to retain the same assembled with limited freedom of displacement of the bolt with relation to said body.

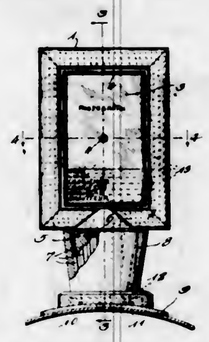
1,429,118. TROLLEY. JOHN S. TOWNSEND, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed Feb. 4, 1921. Serial No. 442,506. 5 Claims. (Cl. 105—154.)



1. In mechanism of the class described a track, adapted to be traveled by a trolley wheel, having a wheel engage-

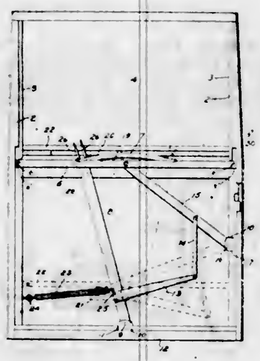
able face inclined downwardly at a definite angle to the horizontal, a support for a wheel which is to travel parallel thereto and a wheel rotatably mounted on the wheel support traveling on said track, the main central part of the circumferential surface of the wheel being cylindrical and at an angle to the horizontal, slightly less than the angularity to the horizontal of the track on which it travels.

1,429,119. CHAUFFEUR'S IDENTIFICATION-TAG HOLDER. EDWARD A. VERA, Chicago, Ill. Filed Aug. 8, 1921. Serial No. 490,602. 4 Claims. (Cl. 40—125.)



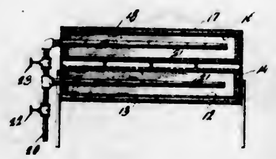
2. An identification device comprising an identification card, a pair of flat glass panels, contacting with the front and rear sides of said card respectively, glass frames integral with and extending around said panels, said frames being integrally joined to each other, an attaching plug integral with and extending downward from the lower sides of said frames and re-inforcing wires having their ends embedded in said attaching plug, the intermediate portions of said wires extending through and being embedded in the sides of said frames.

1,429,120. WINDOW REGULATOR. GEORGE W. WELLS, Amesbury, Mass., assignor to Powow Manufacturing Company, Amesbury, Mass., a Corporation of Massachusetts. Filed Oct. 19, 1920. Serial No. 417,040. 3 Claims. (Cl. 74—39.)



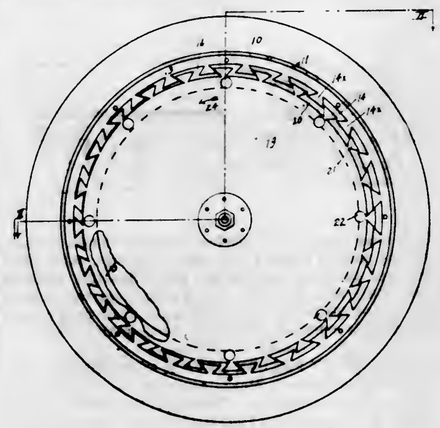
1. In a device of the character described, an arcuate bar, an operating lever movable along said bar, and a spring-tensioned handle lever pivoted to said operating lever and provided with a lateral stud having direct binding engagement with said bar, said handle lever being operable to release and move said operating lever.

1,429,121. HEATING APPARATUS. ROBERT PORTER WISE, Tulsa, Okla. Filed Sept. 25, 1920. Serial No. 412,886. 1 Claim. (Cl. 91—55.)



A heating apparatus including superposed heating casings the ends of one of which fall short of the ends of the other, ribs arranged between said casings and extending the full lengths of the longer casing to provide independent channels, a support for canvas rolls supported adjacent said longer casing to feed a length of canvas in each channel, steam inlet pipes each of which is equipped with a lateral perforate extension, said extensions projecting into the casings and extending transversely thereacross to emit the steam in jets.

1,429,122. APPLICATION OF POWER. BYRON L. BEEBE, Wellington, Kans. Filed Jan. 3, 1922. Serial No. 526,823. 4 Claims. (Cl. 301—6.)

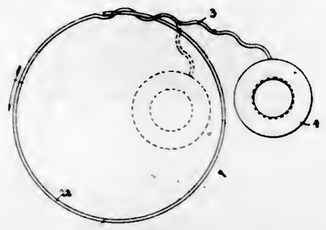


1. In combination, a wheel having a central element rigid with a circular plate; and a rim carrying a ring arranged within a felloe and around the periphery of said plate.

1,429,123. METHOD OF MANUFACTURING CABLE BEADS OR GROMMETS. FRANK H. BEYEA, Akron, Ohio. Filed Sept. 14, 1921. Serial No. 500,650. 5 Claims. (Cl. 152—13.)

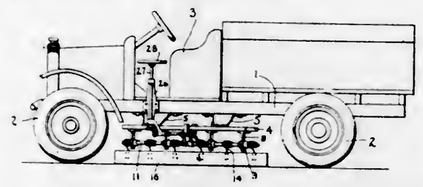
1. A process of manufacturing circular cables or grommets, comprising forming a unit length of wire with a spiralled portion, a straight portion, a spiralled portion and a straight portion in the order named, assembling the wire so shaped upon a carrier, bending the first two said portions of the wire around to form a circle, winding the third portion of the wire about the first two said portions to form the cable and tucking the fourth portion of the wire within the first said portion.

1,429,124. METHOD OF MANUFACTURING CABLE BEADS OR GROMMETS. FRANK H. BEYEA, Akron, Ohio. Filed Sept. 14, 1921. Serial No. 500,651. 6 Claims. (Cl. 152—13.)



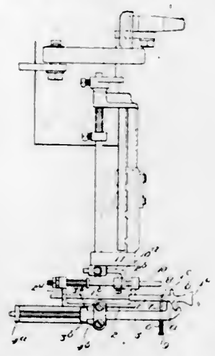
1. A process of manufacturing circular cables or grommets, comprising forming a unit length of wire with a straight portion of sufficient length to form a core wire, and a spiralled portion of sufficient length to cover the core wire, assembling the wire so shaped upon a carrier, drawing out the straight portion to form the core and then wrapping the spiralled portion about the said core until it is covered thereby.

1,429,125. ROAD SCRAPER. DAVID E. BURNS, Grand Rapids, Mich., assignor of one-half to Harold J. McKinley, Grand Rapids, Mich. Filed Apr. 3, 1922. Serial No. 549,080. 13 Claims. (Cl. 37—7.)



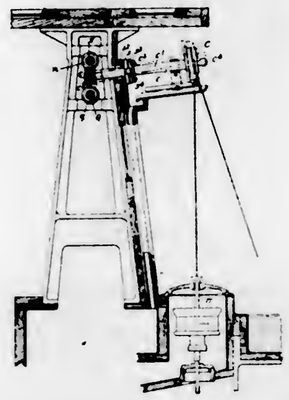
1. A road scraper, comprising a scraper blade, a shaft above the scraper blade, a plurality of springs, each coiled about said shaft and having one end adjustably fastened to the shaft and the other end fastened to the scraper blade, means for rotatably mounting the shaft on a vehicle and manually operable means for turning the shaft.

1,429,126. WEFT FEELER DEVICE FOR LOOMS. CARL A. CARLSON, Everett, Mass., assignor, by mesne assignments, to The Stafford Company, Readville, Boston, Mass., a Corporation of Massachusetts. Filed May 27, 1919. Serial No. 300,099. 20 Claims. (Cl. 139—83.)



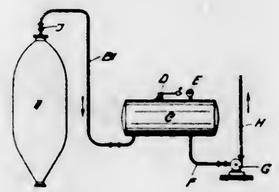
1. A weft or filling-feeler for looms, comprising a laterally-movable feeler-member, a deflector-member, both thereof movable forward and rearward in unison, they respectively having surfaces which are kept in contact with each other by spring-tension and one or both of said surfaces beveled or inclined laterally, means for opposing forward movement of said deflector-member, and controller-devices through which a change in the operation of a loom is called as a result of lateral deflection of the laterally-movable feeler-member.

1,429,127. APPARATUS FOR AND METHOD OF MANUFACTURING ARTIFICIAL SILK. JAMES CLAYTON, Babbacombe, England, assignor to The Viscose Company, Marcus Hook, Pa., a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 336,040½. 3 Claims. (Cl. 18—8.)



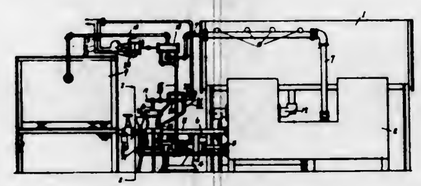
1. In apparatus for spinning artificial silk, a rotary spinning device, a setting bath for the artificial silk, a feed roller for drawing the silk from the setting bath and feeding it to the rotary spinning device, and means for driving said feed roller at relatively low speed to facilitate the introduction of the free end of the silk to the spinning device and thereafter at relatively high speed during the normal spinning operation.

1,429,128. PROCESS FOR THE RECUPERATION OF THE SULPHUROUS ACID AND HEAT FROM WASTE GASES COMING FROM BOILERS FOR CELLULOSE. HANS CLEMM and CARL HANGLEITER, Mannheim-Waldhof, Germany, assignors to Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany, a Corporation of Germany. Filed Mar. 2, 1921. Serial No. 449,264. 1 Claim. (Cl. 92—2.)



An improved process for the recuperation of sulphurous acid and heat from the waste gases of boilers for cellulose, in which the forced over steam and solution is directly introduced, without previous cooling, into the fresh solution, which is contained in a closed pressure vessel.

1,429,129. MEANS FOR REGULATING AND CONTROLLING THE STRENGTH OF LYE SOLUTION. SAMUEL J. DUNKLEY, Oakland, Calif., assignor to Dunkley Company, Kalamazoo, Mich. Filed Aug. 8, 1921. Serial No. 490,754. 4 Claims. (Cl. 23—8.)



2. In an apparatus of the class described, the combination of the main tank, a mixing tank, means for delivering from the main tank to the mixing tank and return, a regulating valve to control the delivery from the main tank to the mixing tank, electric means for controlling the said valve, a hydrometer acted upon by the solution of the main tank connected to control the said electric means, as specified.

1,429,130. HEATING DEVICE. ALFRED E. DUTTON, Cleveland, Ohio. Filed July 9, 1921. Serial No. 483,469. 6 Claims. (Cl. 219—39.)

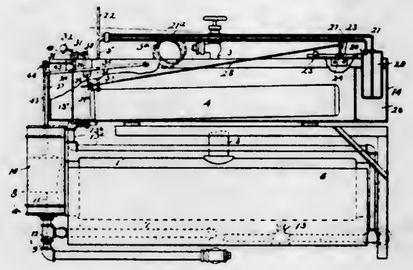


2. In a heating device, the combination of a housing having two compartments formed therein, the one compartment communicating at the top with the atmosphere and having an opening at the bottom; a casing in said other compartment communicating at the top with the atmosphere and at the bottom with said first-named compartment, and consisting of two separate plates having oppositely disposed corrugations forming a multiplicity of chambers, and separate end walls; electrical heating means located in each such chamber; and means for forcing air from said first-named compartment through said casing.

1,429,131. PURIFICATION OF METALLIC SOLUTIONS. SAMUEL FIELD, London, England, assignor to The Metals Extraction Corporation, Limited, London, England. Filed June 26, 1919. Serial No. 306,874. 9 Claims. (Cl. 75—18.)

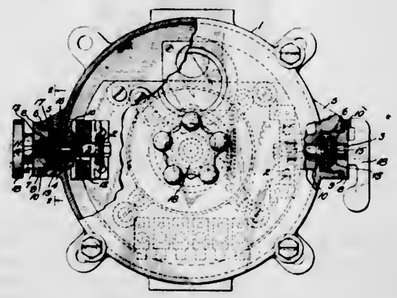
1. The process for the purification of a zinc salt solution from base metallic impurities, which comprises immersing in the solution zinc and another metal in contact, neither of which is identical with the metallic impurity to be precipitated and one of which is lower than zinc in the electrochemical series.

1,429,132. REFRIGERATING SYSTEM. GEORGE A. GASE, East Cleveland, and ERVIN A. SEYMER, Cleveland, Ohio. Filed Feb. 5, 1917. Serial No. 146,597. 13 Claims. (Cl. 62—5.)



1. In a refrigerating apparatus, an absorbing means, liquefied gas containing means, a water tank for cooling the absorbing means, a device for controlling the discharge of water from said tank, and means operatively connected with the said device controlled by the quantity of liquefied gas in the liquefied gas containing means for effecting the operation of said device to permit discharge of the water from said tank.

1,429,133. ELECTRIC-SWITCH CASING. PAUL S. GRIERSON, South Orange, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 14, 1920. Serial No. 410,260. 13 Claims. (Cl. 200—168.)



1. In a circuit making and breaking device, a casing enclosing a switch or transmitter, means exterior to the casing for operating the switch or transmitter, provisions connecting said means with the transmitter, said provisions including opposed valve members, the casing providing a bearing for the said provisions; the said bearing including opposed valve seats cooperating with the said opposed valve members whereby a double acting air and watertight bearing is effected for protecting the said enclosed switch or transmitter.

1,429,134. IRON-BOUND BOX COVER. SHELTON J. GUNN, Gunntown, Fla. Filed Oct. 13, 1921. Serial No. 507,516. 4 Claims. (Cl. 217—56.)

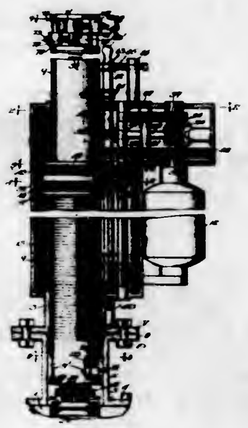
1. The combination with a member adapted to serve as a box cover or bottom, a substantially U-shaped metal

binding strip encircling the end edge of the member, the ends of the strip projecting beyond the sides of the



member and having outwardly pointed spurs pushed inwardly therefrom into the body of the said member.

1,429,135. GRINDER. JOSEPH A. GUTENSON, Chicago, Ill. Filed Sept. 26, 1919. Serial No. 326,517. 8 Claims. (Cl. 51—245.)



1. In a device of the kind described and in combination, a rotatable and longitudinally movable spindle, means for supporting the spindle, means for rotating said spindle in either direction, grinding wheels arranged at one end of the spindle, adjustable supporting means for said grinding wheels, a shaft for each grinding wheel extending through the spindle and operatively connected with the grinding wheels, means intermediate the ends of the spindle and movable therewith for driving said shafts, and means operatively connected with said adjustable supporting means and extending to the opposite end of the spindle for independently controlling said supporting means to vary the positions of the grinding wheels relative to each other and the spindle axis, and means for guiding the spindle and maintaining the same against transverse movement in the work.

1,429,136. LIQUID-TESTING DEVICE. CHARLES J. HAGGARTOM, Warren, Pa. Filed Aug. 2, 1920. Serial No. 400,735. 3 Claims. (Cl. 137—18.)

2. A liquid testing device comprising a closed container, provided in one side with a plurality of vertically spaced openings, rotary valves for closing the openings, an actuating rod for the valves, and crank arms between the latter and the rod, whereby when the container is lowered



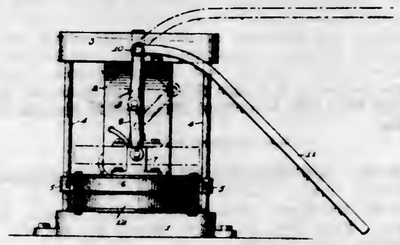
in the tank and the lower end of said rod engages the bottom, the valves will be opened and vice versa.

1,429,137. OIL BURNER. NOAH HALE, Chattanooga, Tenn., assignor to Henry Loeb and Henry Hurst, both of Memphis, Tenn. Filed June 17, 1921. Serial No. 478,278. 9 Claims. (Cl. 158—65.)



4. A liquid fuel burner comprising an upper member having ignition openings, a vaporizing coil extending over said openings, a valve to admit fuel thereto, a valve to transmit vaporized fuel therefrom to the interior of the burner, means for initially heating a portion of the coil including a helical auxiliary coil and a valve for admitting fuel thereto, and means for heating the outlet end of the auxiliary coil, each of said coils including a bundle of metallic filaments of varying lengths so as to taper from the outlet end back toward the inlet end of each coil, substantially as set forth.

1,429,138. METHOD AND APPARATUS FOR TREATING SAWS WITH HEAT. ALBERT JOSEPH HARRY, East Cleveland, Ohio. Filed Feb. 17, 1921. Serial No. 445,659. 4 Claims. (Cl. 266—4.)



1. A method of treating flat metallic articles such as saws, which comprises subjecting them to a high heat, then substantially immediately subjecting them to a lower heat, and subjecting them to pressure during their subjection to the lower heat.

1,429,139. BUCKLE. JOHN HERBELING, Rochester, N. Y. Filed Nov. 17, 1921. Serial No. 515,998. 7 Claims. (Cl. 24—265.)

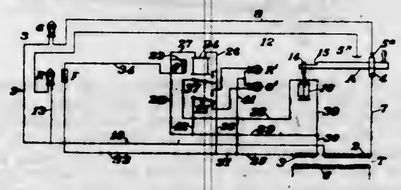


1. A buckle comprising a buckle frame, and belt anchoring means embodying two members, each having a belt engaging portion extending toward the belt engaging portion of the other member, said members having relative movement to permit separation of the belt engaging portions.

1,429,140. METHOD OF TREATING SLUDGE ACIDS. INGENUIN HECHENBLEIKNER and THOMAS C. OLIVER, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y., a Corporation of North Carolina. Filed Jan. 7, 1922. Serial No. 527,532. 18 Claims. (Cl. 23—1.)

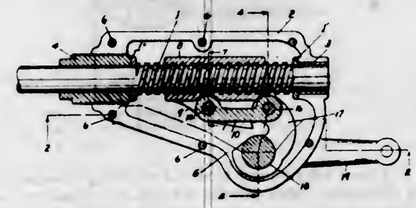
1. The method of treating sludge acids or separated sludge acids which consists in first preheating the sludge acid without concentrating the same to drive off the more volatile impurities, and in then subjecting a body of the preheated weak acid to heat treatment to concentrate the same.

1,429,141. INDICATION MEANS FOR LIGHT SIGNALS. LEMUEL F. HOWARD, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 2, 1921. Serial No. 449,144. 14 Claims. (Cl. 246—135.)



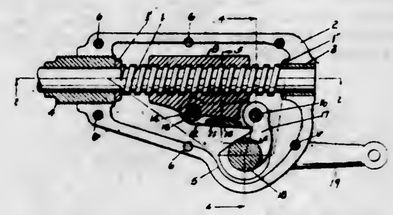
7. In combination, a signal comprising a lamp, means for indicating illumination of said lamp at a point remote from the lamp, and a cell responsive to the light emitted by the lamp for controlling said indicating means.

1,429,142. STEERING GEAR FOR AUTOMOBILES. DAVID W. JONES, Chicago, Ill. Filed May 5, 1922. Serial No. 558,735. 3 Claims. (Cl. 74—79.)



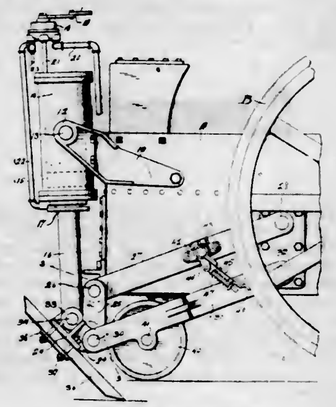
1. In a steering gear means for an automobile, the combination of a suitably divided casing, a steering shaft and a screw suitably journaled therein, a transversely disposed rocker shaft suitably journaled in the said casing, an elongated nut on the said screw having elongated parallel guide projections at one side of said nut with opposed parallel faces, a link with its opposite sides parallel adapted to fit between the said guides and be engaged thereby on the said nut and suitably pivoted thereto at the upper end, and a rocker arm on the said rocker shaft with its end embraced by the downwardly projecting ends of the said link, coacting as described for the purpose specified.

1,429,143. STEERING GEAR FOR AUTOMOBILES. DAVID W. JONES, Chicago, Ill. Filed May 5, 1922. Serial No. 558,736. 3 Claims. (Cl. 74—79.)



1. In a steering gear means for an automobile, the combination of a suitably divided casing, a steering shaft and a screw suitably journaled therein, a transversely disposed rocker shaft suitably journaled in the said casing, an elongated nut on the said screw having an elongated guide projection at one side with opposite parallel faces, a double link with opposed parallel portions engaging the said elongated guide projection on the said nut and suitably pivoted thereto at the upper end, and a rocker arm on the said rocker shaft with its end embraced by the downwardly projecting ends of the said link, coacting as described for the purpose specified.

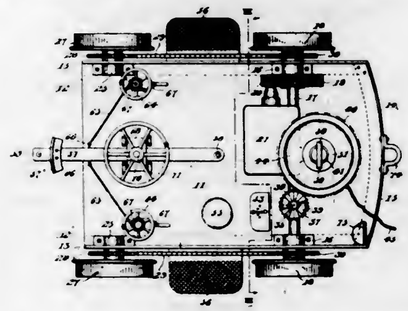
1,429,144. ROAD-SCARIFYING DEVICE. HENRY D. JONES, Galion, Ohio, assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio, a Corporation of Ohio. Filed Oct. 12, 1921. Serial No. 507,276. 11 Claims. (Cl. 37—50.)



2. In a scarifying apparatus, and in combination with a motor driven road engine, a scarifying attachment embodying a pair of spaced parallel members pivoted upon opposite sides of the engine frame, a transversely disposed bar carrying a plurality of picks arranged in inclined relation to the surface travelled over, forwardly extending lugs on the bar pivotally connected with the rear ends of the lower ones of said members, upwardly extending lugs on the bar pivotally connected with the rear ends of the upper ones of said members, other upwardly extending

lugs carried by the bar near the central portion thereof and connected by a shaft, a fluid pressure cylinder rockably mounted at the rear end of the engine frame, a piston operating within the cylinder and having a rod provided with a bearing journally engaging said shaft, and means for supplying and exhausting fluid pressure within the cylinder alternately above and below the piston therein.

1,429,145. METHOD OF AND MEANS FOR LOCOMOTIVE TRANSPORTATION OF COAL CARS IN MINES. JOSEPH F. JOY, New Bethlehem, Pa., assignor to Joy Machine Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Mar. 20, 1919. Serial No. 283,822. 4 Claims. (Cl. 105—75.)



1. A mine locomotive for towing pit cars including a wheeled body having a drawbar connected thereto for horizontal swinging and vertical movements, means to horizontally swing said drawbar, and means to vertically move said drawbar to raise and support a pit car in tilted position.

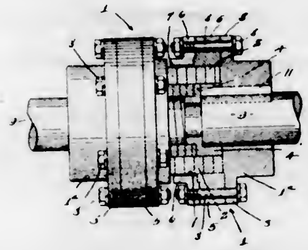
1,429,146. UNIVERSAL POWER-TRANSMITTING ELEMENT. MAXWELL R. KARGE, Phoenix, N. Y., assignor, by mesne assignments, to Charles J. Deckop, Buffalo, N. Y. Filed Jan. 28, 1919. Serial No. 273,548. 3 Claims. (Cl. 64—96.)



3. A flexible universal power transmitting element comprising cylindrical coiled torsion springs wound in opposite directions and arranged one within the other, the springs being connected together at their ends, and couplings mounted on the ends of the springs, each coupling being formed with a socket and an axial stud arranged centrally of the socket forming an annular space in which the ends of the spring extend, the stud extending into the end of the inner spring, and means for clamping the springs onto the stud, substantially as and for the purpose described.

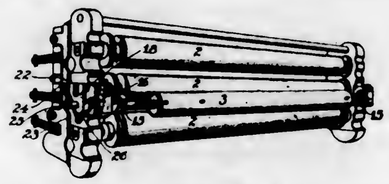
1,429,147. FLEXIBLE COUPLING. MAXWELL ROY KARGE, Phoenix, N. Y. Filed Aug. 19, 1920. Serial No. 404,652. 4 Claims. (Cl. 64—96.)

4. A flexible coupling comprising opposing headers, a coiled spring having its ends secured respectively to the headers, each header comprising a body having means for connection to the shaft, the body abutting against the contiguous end of the spring, a plug inserted in the end coils of the spring, an intermediate clamping ring encircling the end coils of the spring and shrunk thereon, an outer ring adjacent the intermediate ring and having its inner circumferential face spaced apart from the inter-



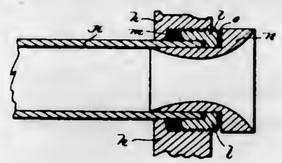
mediate coils of the spring, and means for clamping the body and the rings together, substantially as and for the purpose described.

1,429,148. INK DISTRIBUTOR. HENRY H. KREILING, deceased, by Louise Kreiling, administratrix, Chicago, Ill. Filed Oct. 8, 1921. Serial No. 506,421. 4 Claims. (Cl. 101—359.)



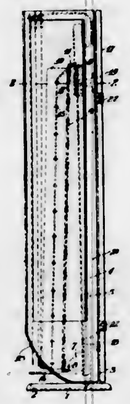
1. In a device of the class described, the combination with an ink roller and a coacting distributing roller, a threaded supporting shaft for said distributing roller, a nut loosely journaled within the distributing roller in threaded engagement with said shaft, said nut being provided with ratchet teeth at one end and a resilient pawl supported inside of said distributing roller for coacting with the teeth on said nut.

1,429,149. HEAT INTERCHANGER. ALMON R. LAWRENCE, Quincy, Mass., assignor to Engineering Development Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 18, 1920. Serial No. 417,605. 2 Claims. (Cl. 257—236.)



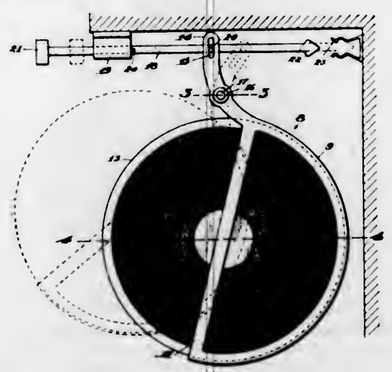
1. A heat interchanger having a receiving chamber, liquid conducting tubes passing through said chamber, and a liquid chamber into which said tubes open at one end, those ends of the tubes which open into said liquid chamber and into which the liquid is designed to enter having bores which gradually contract in diameter from their entrance orifices and are subsequently enlarged, on longitudinal lines conforming substantially to the contraction and enlargement of a jet of liquid flowing under a head through an orifice into a tube.

1,429,150. BED. GEORGE R. MCALLASTER, Rochester, N. Y. Filed July 27, 1918. Serial No. 247,058. 12 Claims. (Cl. 5—18.)



1. In a bed, a support, a bed frame hinged to the support to swing to an upright position, and two screen members hinged to opposite sides of the frame to assume positions below the mattress when the bed is in the position of use and positions to cover the side edges of the mattress when the bed is in an upright position, the lower corners of the screen members being cut away to permit the swinging of the bed frame on its support.

1,429,151. RECORD HOLDER. RODNEY N. MCCLURE, Los Angeles, Calif. Filed Oct. 26, 1920. Serial No. 419,579. 2 Claims. (Cl. 211—16.)



1. In a filing device, a carrier pivoted to oscillate, a push rod connected to the carrier adjacent its pivot adapted on being manually depressed to advance the carrier, and means detachably engageable with said push rod for temporarily holding it in its retracted position and retaining the carrier in its advanced position.

1,429,152. MEANS FOR SECURING TIRES TO RIMS OF VEHICLES. DEMETRIO MAGGIORA, Florence, Italy. Filed Dec. 14, 1920. Serial No. 430,620. 3 Claims. (Cl. 152—5.)

1. In means for securing solid tires to the rims of vehicle wheels, the combination with a rim and a tire, of a ring arranged on the rim between the edges of the tire, said ring being formed of circular segments, each formed of two parts, substantially as set forth.

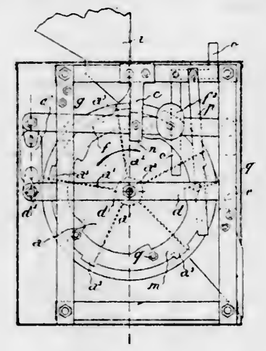


3. In means for securing solid tires to the rims of vehicle wheels as claimed in claim 1, wherein inclined faces of the two parts, which constitute the segment are adapted to press against the inner sides of the tire for pressing and maintaining the edges of said tire within the curved sides of the rim, after the tire has been mounted, each segment being provided with a flat or curved surface on which is fitted the support of the inner elastic element, the two parts of the segment being closed together by blocks and wedges, the movement of which is controlled from outside of the rim by means of screws, the heads of which co-operate with the rim and are screwed in the blocks, the whole substantially as and for the purposes set forth with reference to the annexed drawings.

1,429,153. COMPOSITION AND FILM CONTAINING MIXTURES OF CELLULOSE ESTERS AND ETHERS. LESTER J. MALONE, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 7, 1922. Serial No. 527,717. 7 Claims. (Cl. 134—79.)

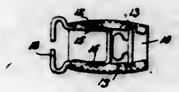
2. A composition of matter including cellulose ether and a cellulose ester dissolved in a liquid comprising pyridine, the combined weight of said cellulosic compounds being more than one-sixth the weight of said liquid.

1,429,154. APPARATUS FOR DELIVERING LIQUID OR GRANULAR MATERIAL IN PREDETERMINED MEASURED QUANTITIES. FERNAND PAUL MARTIN, Paris, France. Filed Dec. 23, 1920. Serial No. 432,806. 4 Claims. (Cl. 249—19.)



1. Apparatus for delivering liquid or granular material in predetermined measured quantities, comprising a vertically movable drum divided into a plurality of compartments of equal capacity, means for normally holding the drum in elevated position and depressible by a predetermined weight of said material, an escapement mechanism associated with the drum comprising a pair of fixed lugs, teeth on said drum adapted to engage one of said lugs to stop the drum when elevated, and cams on said drum adapted to ride over the other of said lugs for elevating the drum when empty.

1,429,155. BELT BUCKLE. ALPHA H. METCALF, Attleboro, Mass., assignor to H. A. Allen & Co., Attleboro, Mass. Filed Jan. 24, 1922. Serial No. 531,385. 1 Claim. (Cl. 24—78.)



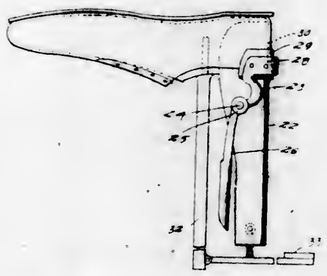
A belt buckle comprising a front plate with side flanges having inturned guide edges, a substantially U-shaped spring frame bail member having lateral projections adapted to engage openings in said side flanges with spring pressure, a portion of said guide edges being folded inwardly to guide said frame to its engaging position, and means in the buckle for holding the adjustable end of the belt.

1,429,156. SAILBOAT. CHARALABOS MORAITIS, Galveston, Tex. Filed June 13, 1921. Serial No. 477,178. 1 Claim. (Cl. 114—102.)



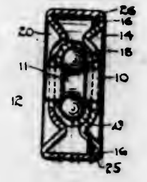
In a sailing vessel including a jib sail and masts carrying booms and mainsails, of a plurality of guide sheaves attached to the vessel along its opposite sides and spaced to correspond to the mainsails, a guide sheave attached to each of said booms, cables attached at one end to said jib sail, means for guiding said cables from the jib sail respectively to the foremost guide sheaves of the vessel at opposite sides thereof, said cables being thence carried alternately around the sheaves of the vessel and the sheaves of the booms, whereby the shifting of the mainsails will correspondingly shift the jib sail.

1,429,157. APPARATUS FOR RELASTING SHOES. HONORE MORIN, New Auburn, Me. Filed Apr. 24, 1920. Serial No. 376,314. 1 Claim. (Cl. 12—15.)



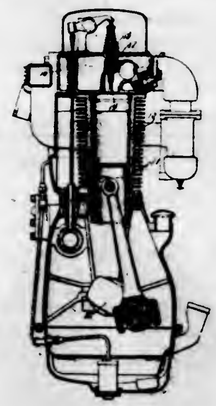
Apparatus of the class described having a post, a horn adjacent said post, a treadle operable to move said horn, said horn having its upper end enlarged, a clamp pivoted to said enlarged end, said horn extending through said clamp, said clamp being manually operable and having its operating end lowermost and disposed below said portion and intermediate the horn and said post, a jaw on said clamp engageable with the horn on the opposite side to said opening end, said upper end of the horn extending above the jaw, and the manual operation of the clamp enabling movement thereof independently of the horn.

1,429,158. SHEET-METAL WHEEL OR ROLLER. FRED S. MORTON, Worcester, Mass. Filed Feb. 19, 1921. Serial No. 446,223. 2 Claims. (Cl. 46—52.)



1. As an article of manufacture, a roller or wheel having a pair of hardened ball cases complete in themselves and also having two flanges each provided with a curved inner portion in contact throughout a wide area with the exterior surface of said ball cases and having a conical flange extending outwardly from the exterior of the same at opposite inclinations, one of them having an integral tread extending from the edge thereof backwardly over the edge of the other and provided with a shoulder at that edge for engaging the outer edge of the other flange, the extreme edge of the tread being thinned down and bent over the edge of the opposite flange to hold the parts together.

1,429,159. INTERNAL-COMBUSTION ENGINE. ADOLPH L. NELSON, Indianapolis, Ind. Filed Feb. 14, 1919. Serial No. 276,985. 3 Claims. (Cl. 123—173.)

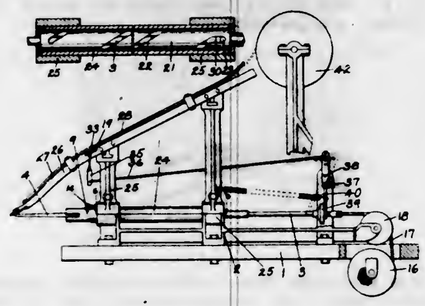


1. An internal combustion engine comprising a cylinder of the air cooled type throughout its entire length, a cylinder head mounted on the upper end of the cylinder having face contact only therewith, said cylinder head having a vertical bearing for the valve stem and a water jacket in the cylinder head for cooling the head and the parts carried thereby, substantially as set forth.

1,429,160. BAG-TYING MACHINE. LEWIS D. NELSON, Union City, Mich. Filed Nov. 10, 1920. Serial No. 423,205. 14 Claims. (Cl. 140—93.)

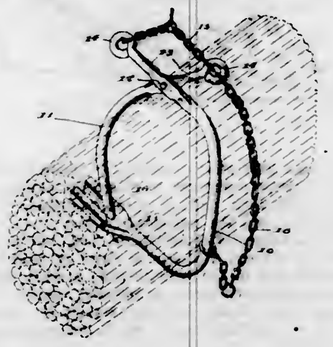
1. In a machine for tying bag ties having eyes at their ends, the combination of a spindle mounted for longitudinal and rotative movement, means for rotating said spindle as it is moved longitudinally, tie engaging hooks, having disk-like superimposed portions at their inner ends pivotally mounted on said spindle, said disk-like portions being provided with notches registering when the hooks

are closed, a catch member sleeved upon the end of said spindle and provided with a pin engaging said notches when they are in registering position, a spring urging said catch member to engaging position, a trip for releasing said catch member on the return stroke of the spindle,



a spring for opening said hooks, a feed chute comprising bars notched at their ends to receive the hooks when they are in their initial position so that the ties are delivered with their eyes engaging the hooks, and a feed means for delivering the ties one by one.

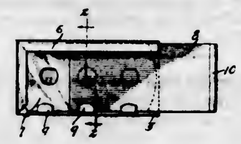
1,429,161. LOG LOADING AND UNLOADING GRAPPLE. OTTO NEWLIN, Wallace, Mich. Filed Apr. 29, 1921. Serial No. 465,448. 1 Claim. (Cl. 294—83.)



A grapple for pulp wood logs comprising a pair of crossed and pivoted outwardly bowed log bundle gripping legs, the portions of the legs above the pivot being provided with chain receiving eyes, the lower end of one of the bowed legs being formed of a single strand, the lower end of the other leg being bifurcated for the reception therein of the end of the first leg whereby the said ends of the legs are prevented from lateral movement with respect to each other, and a releasing chain connected with the bifurcated leg and the eye of the other leg for simultaneously moving the legs away from each other to release a bundle of logs.

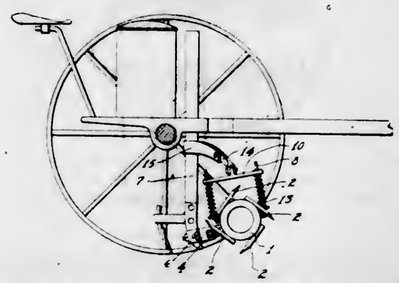
1,429,162. CUTTING DEVICE AND RECEPTACLE THEREFOR. SAMUEL ORSELANDER, New York, N. Y. Filed Nov. 29, 1921. Serial No. 518,592. 4 Claims. (Cl. 30—39.)

1. A cutting device and receptacle including a back, lugs adjacent one of the side edges of said back and extending rearwardly therefrom, retaining means adjacent the other side edge of the said back, a cover adapted to be associated with said lugs, and retaining means, a



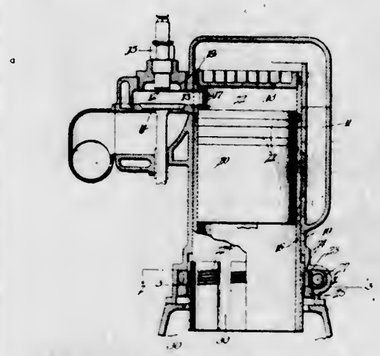
blade adapted to be disposed between said cover and back, said blade being capable of association with said lugs.

1,429,163. STALK CUTTER. OBEAL D. PEDEN, Roscoe, Tex. Filed Apr. 2, 1921. Serial No. 458,109. 1 Claim. (Cl. 55—61.)



A device of the class described, comprising a frame having a socket therein for receiving a part of an implement, a pair of bearings pivotally supported in the frame, a shaft supported in the bearings, blades carried by the shaft, a pair of arms connected with each bearing, a bracket slidably mounted on each pair of arms, springs on the arms engaging the brackets, a pair of bars, each having one end pivotally connected with a bracket and means for connecting the other ends of said bars with the implement.

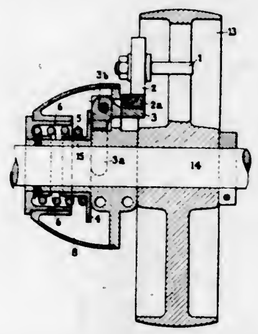
1,429,164. INTERNAL-COMBUSTION ENGINE. JOHN T. RAMSEY, Roanoke, Va. Filed Mar. 22, 1921. Serial No. 454,477. 2 Claims. (Cl. 123—48.)



2. In an internal combustion engine, a sleeve located within the engine cylinder and having a head in one end, a piston operating within the sleeve, means including a ring swiveled within the engine cylinder and engageable with the sleeve for adjusting the latter within the engine

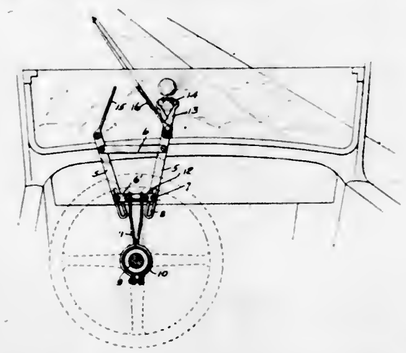
cylinder to regulate the distance of the head from the adjacent end of the piston, a retaining ring located within the cylinder for holding the swiveled ring in position and keys carried by the retaining ring and slidable in grooves formed longitudinally of the sleeve for preventing rotation of the latter.

1,429,165. DEVICE FOR MEASURING AND RECORDING THE POWER CONSUMPTION OF MACHINES. MAX ROCKSTROH, Klein-Sedlitz, near Pirna, Germany. Filed Oct. 23, 1920. Serial No. 419,124. 4 Claims. (Cl. 265—4.)



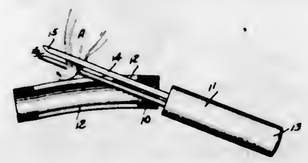
1. An apparatus of the class described, comprising, in combination, a rotatable driving element, a shaft, a longitudinally movable collar on said shaft, spring means for yieldingly maintaining the collar in normal position, and mechanism interposed between said driving element and collar for moving the latter longitudinally in opposition to said spring means, said mechanism including means for exerting relatively greater leverage on said collar for lighter values of the turning moment exerted by said driving element upon said mechanism.

1,429,166. GUIDE. ISAAC A. ROMMER, Brooklyn, N. Y. Filed Aug. 2, 1921. Serial No. 489,321. 11 Claims. (Cl. 116—31.)



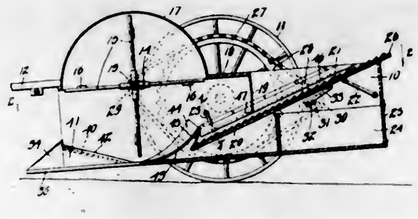
10. A guide including a body portion, a pair of sighting elements carried by said body portion, said body portion being adapted to be attached to a fixed part of a vehicle, said elements co-operating with a second fixed portion of a vehicle to enable an operator to place his head in proper position with respect to said guide, and means carried by said body for hiding those portions of the road way over which the wheels of the vehicle will pass, from the view of the operator.

1,429,167. HAIR CURLER. ARNOLD SCHÄREB, New York, N. Y. Filed Oct. 21, 1921. Serial No. 509,272. 3 Claims. (Cl. 132—39.)



1. A hair curling device comprising a slotted flexible tubular member, and means for wrapping hair in curls within the tubular member through the slot thereof.

1,429,168. BEAN HARVESTER. FRANK VAUGHAN SCOTT, Elizabeth City, N. C. Filed Jan. 2, 1920. Serial No. 348,728. 14 Claims. (Cl. 56—130.)



7. In a bean harvester a housing, an inclined agitator-conveyor, a beater positioned to discharge material upon the agitator-conveyor, and an apron positioned to bear upon material upon the agitator-conveyor.

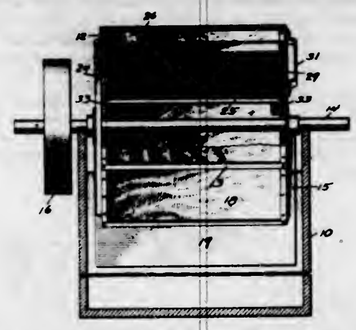
12. A bean harvester comprising a body having a pair of supporting wheels, a beater in front of said wheels, an agitator-screen in the rear thereof, a shaft adjacent to the screen for driving it, a sprocket carried by one of the supporting wheels, sprockets carried by the beater shaft and the agitator-screen shaft, respectively, and a single sprocket chain mounted to engage said several sprockets whereby the beater and the agitator-screen are driven by a common driving means connected with the supporting wheels, substantially as set forth.

1,429,169. CELLULOSE-ETHER COMPOSITION. PAUL C. SEEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 5, 1922. Serial No. 527,245. 2 Claims. (Cl. 134—79.)

1. A composition of matter comprising cellulose ether and dichlorpropane.

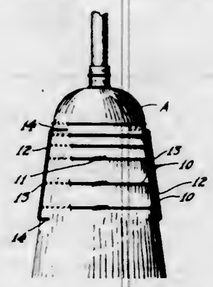
1,429,170. ELECTROPLATING BARREL AND CATCHER. EDWARD A. SEVERANCE, Burlington, Vt. Filed June 30, 1921. Serial No. 481,522. 10 Claims. (Cl. 204—11.)

1. An electro-plating apparatus comprising in combination, a solution tank, anodes disposed within said tank at the side thereof, a rotatable barrel comprising end heads and a textile covering between said heads, said heads rigidly secured to a drive shaft mounted in said tank, cathode bars held within said barrel and in circuit with said shaft, movable brush means mounted on said tank



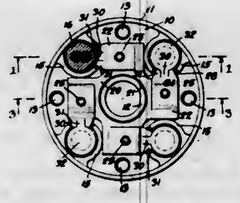
and adapted to be contacted with said shaft, and a reticulated work catcher removably mounted within said barrel.

1,429,171. BROOM BRACE. ABRAHAM LINCOLN SHIPMAN, Springfield, Ill. Filed Oct. 25, 1921. Serial No. 510,264. 1 Claim. (Cl. 15—170.)



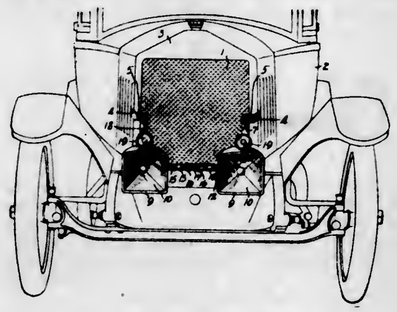
A broom brace comprising a plurality of elongated wire loops of progressively increasing sizes designed to be engaged upon a broom head and each formed of a single length of wire having its ends twisted together, and a pair of wire members connecting the ends of said loops and coiled thereabout for holding said loops in spaced relation, the ends of said pair of wire members extending angularly toward each other for penetrating engagement between the fibers of the broom head.

1,429,172. ELECTRICAL OUTLET BOX. SAMUEL L. SOPENOFF and MORRIS KATCHER, Brooklyn, N. Y. Filed Feb. 24, 1920. Serial No. 360,748. 7 Claims. (Cl. 247—25.)



1. An electric outlet box provided with a clamping plate having a plurality of integral curved spring tongues each provided at its free end with teeth extending in different directions, a knock-out disk extending integrally from one of the said teeth and adapted to be broken off, and adjustable means engaging the said spring tongues to fasten the clamping plate to the outlet box and to place the spring tongues under compression.

1,429,173. AUTOMOBILE HEADLIGHT. BERNHARD STERN, New York, N. Y. Filed July 18, 1921. Serial No. 485,435. 5 Claims. (Cl. 240—57.)

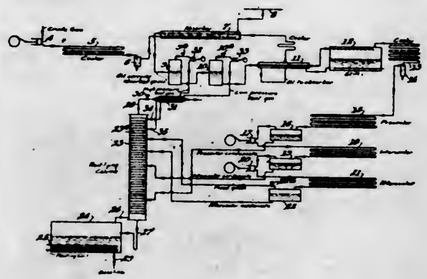


1. The combination with a vehicle, of a pair of upright bars carried thereby and spaced from the forward end thereof, lamps slidable vertically on the bars, a cross piece connecting the lamps, locking members slidable on the cross piece and engageable with the bars, and an expansion spring interposed between the locking members tending to force the same into locking relation with the bars.

1,429,174. NITROCELLULOSE COMPOSITION. ALBERT F. SULZER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 23, 1921. Serial No. 447,245. 6 Claims. (Cl. 134—79.)

3. A liquid composition of matter for forming film by flowing and drying, comprising 100 parts of cellulose nitrate, 10 to 100 parts of a mono hydroxy aliphatic alcohol having from 4 to 5 carbon atoms, from 1 to 100 parts of ethyl butyrate and sufficient common solvent to make a viscous flowable solution.

1,429,175. PROCESS OF TREATING NATURAL GAS AND PRODUCT THEREOF. HAROLD E. THOMPSON, Clendenin, W. Va., assignor to Carbide & Carbon Chemicals Corporation, a Corporation of New York. Filed Aug. 29, 1921. Serial No. 496,321. 9 Claims. (Cl. 196—25.)

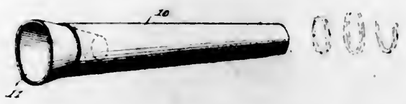


3. Process of forming a liquid of predetermined vapor pressure from a mixture of natural gas hydrocarbons, which comprises separating from the mixture a fraction

having a higher vapor pressure than that desired in the final product, and rectifying the said fraction to produce therefrom a vaporous portion and a liquid portion, the rectification being so conducted that not more than one hydrocarbon of said fraction will occur in substantial quantity in both the vaporous and liquid portions.

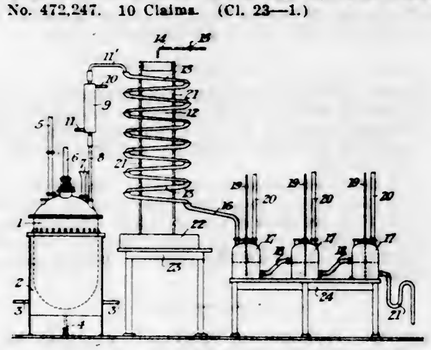
8. A natural gas gasolene having a density not less than 87° Bé. and a vapor tension not substantially greater than 12 lbs., at 100° F.

1,429,176. SMOKE-RING BLOWER. RICHARD TOENNES, Boonville, Mo. Filed Feb. 23, 1921. Serial No. 447,158. 2 Claims. (Cl. 46—37.)



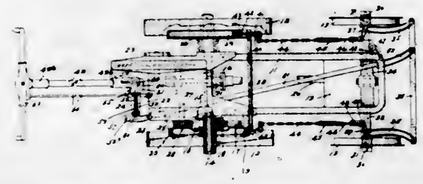
1. A smoke ring blower, comprising a smoke storage tube, a mouth-piece conical in shape positioned in one end of the storage tube with its smaller end lying within the same to form a small blow opening within the tube, and with the larger end of the mouth-piece lying outside of the storage tube to form a flaring mouth-engaging portion adapted to fit over the lips of the user.

1,429,177. APPARATUS FOR NITRIC ACID PURIFICATION. GEORGE H. TOZIER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 24, 1921. Serial No. 472,247. 10 Claims. (Cl. 23—1.)



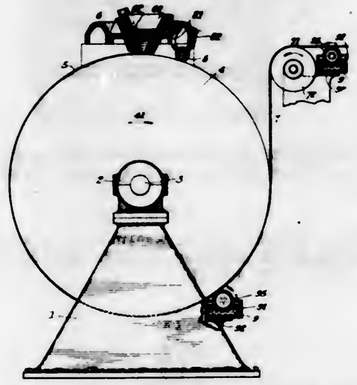
1. Apparatus for obtaining concentrated and purified nitric acid, comprising a still, a partially refluxing condenser substantially completely resistant to said concentrated acid, and a complementary condenser connected in series.

1,429,178. GARDEN TRACTOR. FREDRICK A. VALENTINE and ROBERT D. VALENTINE, Minneapolis, Minn. Filed Nov. 11, 1920. Serial No. 423,300. 11 Claims. (Cl. 180—18.)



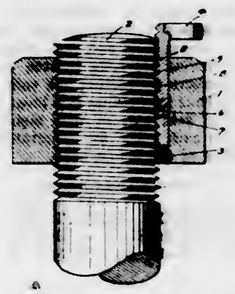
1. A tractor having an oscillatory ground-engaging steering wheel, and a manually actuated rearwardly extended steering handle pivotally mounted at its front end for oscillatory movements transversely of the tractor, and operatively connected to said steering wheel while occupying a position at one side of said tractor and while thus operatively positioned for straight-ahead travel of the tractor.

1,429,179. PROCESS OF TREATING FILMS. WILLIAM R. WEBB, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 4, 1921. Serial No. 513,647. 11 Claims. (Cl. 18—57.)



1. The process of treating a film containing cellulose ether to lessen the curling tendency thereof, which comprises the steps of applying a solvent thereof to a face of such film and stopping said application before the body of said film is attacked.

1,429,180. NUT LOCK. JOSEPH V. WOODWORTH, Camp Kearney, Calif. Filed June 30, 1921. Serial No. 481,625. 8 Claims. (Cl. 151—23.)

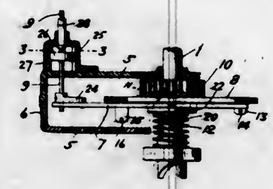


1. In means for locking an object having an internal thread therein to another object having an external thread registering with said internal thread, means for bending the tops of one of said threads over a limited longitudinal area after the said threads have become engaged.

1,429,181. LOCKING DEVICE FOR AUTOMOBILES. GEORGE W. WRIGHT and THOMAS J. PENSION, Philadelphia, Pa., assignors of three-eighths to said Wright, three-eighths to said Thomas J. Pension, and one-fourth to Thomas M. Pension, Philadelphia, Pa. Filed Dec. 13, 1921. Serial No. 521,987. 4 Claims. (Cl. 70—90.)

2. In a locking device for automobiles the combination of engine control shafts, a yoke adapted for application

to the shafts, a key shifting lever plate pivoted to the yoke, a gravity latch pivotal in respect to the yoke and adapted to fall past said lever, a rod for actuating the



lever plate and provided with a finger for lifting the latch, a master gear loosely mounted on one of the shafts, a spring pressed key operated by the lever plate, and means for locking the rod against rotation.

1,429,182. BINDING CLIP. FRANK M. ASHLEY, New York, N. Y. Filed Jan. 4, 1921. Serial No. 434,970. 1 Claim. (Cl. 24—259.)



A clip formed from a single sheet of spring material comprising oppositely disposed jaw members and levers by which said jaws may be opened, said levers having embossed ribs to stiffen the same, said ribs extending below the fulcrum of the levers.

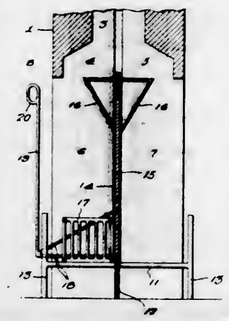
1,429,183. ADJUSTABLE PLUG GAUGE. JOHN BATH, Worcester, Mass., assignor to John Bath & Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 3, 1920. Serial No. 386,258. 8 Claims. (Cl. 33—178.)



1. An adjustable plug gauge, having, in combination, a support, separated gauge members mounted thereon and of different fixed sizes, a plurality of gauge bars adjustably mounted on said support between said members and closely adjacent thereto, and means to adjust said bars radially to sizes intermediate said fixed sizes.

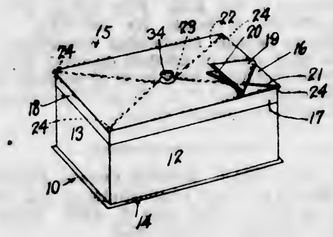
1,429,184. FIREPLACE. JACIE BECKETT, Columbus, Ohio. Filed Dec. 12, 1921. Serial No. 521,602. 2 Claims. (Cl. 126—125.)

1. In combination with a division wall between two rooms having communicating fire places, and an angle branch flue at the top of each fire place communicating with the main flue, of a grate slidably supported in either of the fire places, a vertically slidable plate providing a division between the fire places, means on the plate



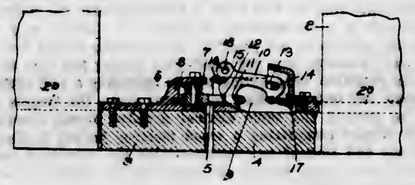
and arranged at the outer side of the fire places for moving the plate vertically, and angle deflectors in the respective fire places adjacent to the tops thereof.

1,429,185. NONRESALABLE BOX. ALFRED JOHN BROWN and GEORGE I. PAULSON, Brooklyn, N. Y. Filed July 8, 1919, Serial No. 309,463. Renewed Mar. 8, 1922. Serial No. 542,162. 6 Claims. (Cl. 229—51.)



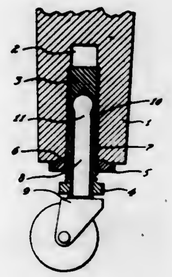
1. A container including a body member, a cover for the body member, a device including interlocking parts and a manipulator, and means connected to the manipulator for mutilating the cover upon the manipulating of the manipulator.

1,429,186. CAR COUPLING. HARRY M. BROWN, New Kensington, Pa. Filed Nov. 7, 1921. Serial No. 513,248. 1 Claim. (Cl. 213—45.)



In a coupler for mine cars, the combination of a coupler head of bull-nose type having a hooded rear portion and a slot through its top in advance of the hooded portion, and a coupling hook pivoted in the coupling head under the hooded portion, the coupling hook, throughout its range of pivotal movement, protruding upwardly through the slot in the coupler head.

1,429,187. CASTER. CAREY E. BUNKER, Oregon, Mo. Filed Nov. 22, 1920. Serial No. 425,882. 5 Claims. (Cl. 16—19.)

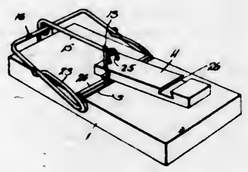


1. In combination with a caster including a roller and a stem, a screw threaded member having a cap placed in the upper end thereof, tongues provided on said cap for engaging the annular groove formed in the stem, a thrust member carried by said cap which receive the upward thrust of the stem, said member being provided with an annular groove, an annular bead received by said groove.

1,429,188. CELLULOSE ETHER SOLVENT AND COMPOSITION. STEWART J. CARROLL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,740. 6 Claims. (Cl. 134—79.)

5. A viscous flowable film-forming composition, comprising an alkyl ether of cellulose dissolved in a compound solvent containing from 90 to 40 parts by weight of ethylene chloride and 10 to 60 parts by weight of a lower monohydroxy aliphatic alcohol.

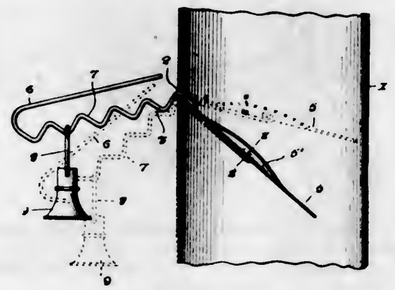
1,429,189. RAT TRAP. RAPHAEL CHASSE, Middletown, N. Y.; Russell J. Chasse administrator of said Raphael Chasse, deceased. Filed July 2, 1920. Serial No. 393,512. 3 Claims. (Cl. 43—81.)



1. A rat trap comprising a base, a movable jaw pivotally mounted on said base, a retaining arm for holding said jaw in a set position, a trigger for holding said retaining arm in its set position, and a spring means acting on said movable jaw for resiliently urging the jaw in a given direction, said spring means including a coil spring having one end extending to a point above the trigger so as to protect the same against articles placed thereon, said trigger comprising a wood member having a staple on one end thereof to cooperate with the retaining arm, and a dove tailed slot at the other end in which the bait is securely held.

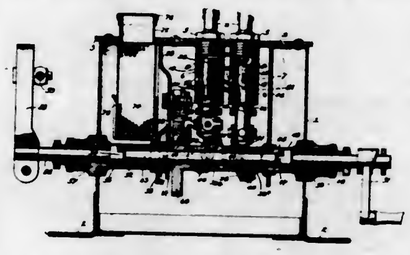
1,429,190. DAMPER. CHARLES B. COALWELL, Pine Island, Minn., assignor of one-half to Cortez A. Mellinger, Pine Island, Minn. Filed Feb. 15, 1921. Serial No. 445,202. 2 Claims. (Cl. 236—45.)

2. A device of the class described comprising a stove pipe adapted to connect the latter with a chimney, said pipe having a hole formed therein and a rod passing through said hole, a damper plate secured to said rod, the part of the rod which passes through said hole is curved to provide a fulcrum for permitting the swinging movement of the damper plate without the rod sliding



through the opening, said rod having its exterior part of U-shaped formation and the limb of the U being connected with a damper plate and bent to provide a series of depressions, a ring carried by the limb of the U and a weight secured to one end of said ring, said damper plate having upwardly curved portions.

1,429,191. LUBRICATOR. THOMAS E. COLEMAN, Madison, Wis., assignor to Madison-Kipp Corporation, Madison, Wis., a Corporation of Wisconsin. Filed Sept. 2, 1920. Serial No. 407,641. 9 Claims. (Cl. 184—27.)

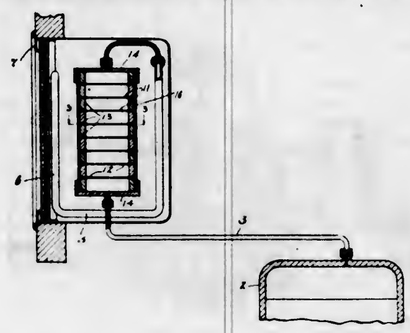


8. In a force feed lubricator, the combination of a cylinder having intake, exhaust and spill ports formed therein; a sleeve mounted within said cylinder and adjustable lengthwise thereof to control the capacity of the lubricator, said sleeve having ports which correspond to the ports aforesaid; a piston mounted in the sleeve, said piston being provided with a groove or channel in its side wall adjacent its upper end, a second groove or way formed in its opposite wall and extending downwardly to a point below the termination of the first mentioned groove, said last named groove opening into a way or channel formed in the body of the piston; and means for actuating the piston to impart endwise and oscillatory movement thereto to bring the various ports and passages into cooperative relation.

1,429,192. EFFICIENCY INDICATOR FOR EXPLOSION MOTORS. HOWARD H. DAVIS, Cleveland, Ohio. Filed Dec. 3, 1919. Serial No. 342,256. 2 Claims. (Cl. 73—31.)

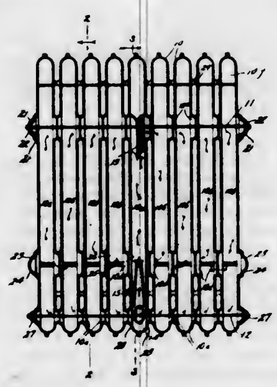
1. In a device of the character described, the combination with a support of a transparent U-shaped tube sealed at one end and containing a suitable liquid, a cylindrical chamber having terminal caps screwed thereon, a plurality of alternating rings and thin sheet metal disks held tightly compressed by said caps, said disks being

provided with small apertures, the apertures in successive disks being arranged in staggered relation to each other.



a duct connecting the chamber through one of its screw caps with the open end of the U-shaped tube and through the other cap with the cylinder of an explosion motor.

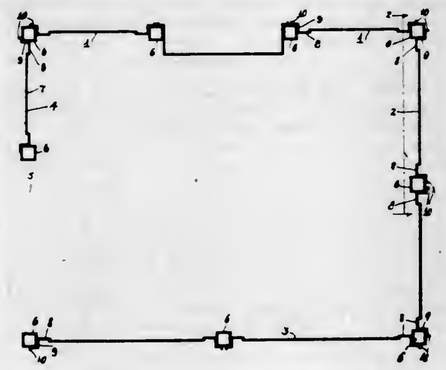
1,429,193. HEATER. ALBERT R. J. DEARDEN, Jersey City, N. J. Filed Apr. 21, 1920, Serial No. 375,561. Renewed Feb. 17, 1922. Serial No. 537,358. 8 Claims. (Cl. 126—91.)



1. A heater including radiator sections, one of which constitutes an uptake flue and others downtake flues, there being a transverse flue establishing communication between the upper ends of said downtake flues and said uptake flue, and a second transverse flue forming a return connection between said downtake flues and said uptake flue below the first-mentioned transverse flue, to form a circulating circuit; and heating means in said uptake flue adjacent to its lower end, below said return transverse flue; together with a nozzle over the heating means and terminating adjacent to the top of the return transverse flue, the upper end of said nozzle and the said return transverse flue jointly presenting members forming an injector to induce a current in said uptake flue.

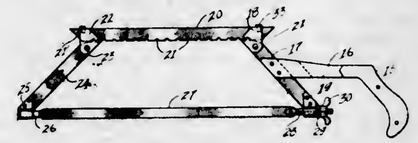
1,429,194. ELEVATOR-CAB CONSTRUCTION. ROGER W. DISBRO, Cleveland Heights, Ohio, assignor to The W. S. Tyler Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 23, 1919. Serial No. 299,177. 4 Claims. (Cl. 189—2.)

3. In elevator construction, the combination of a series of aligned closed square hollow posts, and a series of flat panels disposed between said posts and in the plane thereof, and said panels having angularly related marginal flanges, such flanges being arranged to engage against the



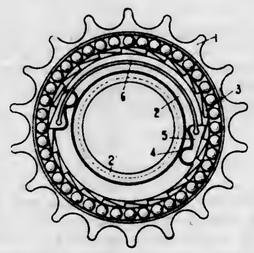
sides and around the one adjacent edge of said hollow posts.

1,429,195. HACK-SAW FRAME. WILLIAM DONALDSON, Tacoma, Wash. Filed July 22, 1921. Serial No. 486,865. 1 Claim. (Cl. 145—34.)



A saw frame including a pair of supporting arms, one of said arms having a handle secured thereto, a loop member secured to each of said arms, a bar longitudinally movable through one of said loop members, said bar having notches in one of its longitudinal edges and recesses in its opposite edge at points near its extremities, said bar terminating in angular extremities provided with notches therein for limiting the angular motion of the arm when arranged in line with the bar, lugs on said arms adapted to be selectively received in the notches of said bar for limiting the longitudinal movement of either of said arms along said bar, and a saw blade detachably secured to said supporting arms and capable of assuming an angular position when the bar and one arm are locked in alignment one with the other.

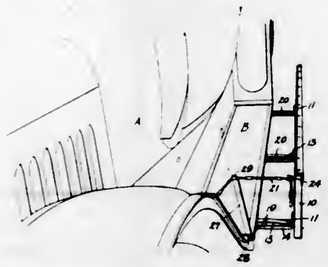
1,429,196. FREE-WHEEL DEVICE. ANNIBALE DUGHERA, Turin, Italy, assignor to Pier Giuseppe Bellia, Turin, Italy. Filed Apr. 4, 1921. Serial No. 458,240. 3 Claims. (Cl. 192—64.)



1. A free wheel device, comprising concentric outer and inner rims; a cover ring secured to one rim; a pair

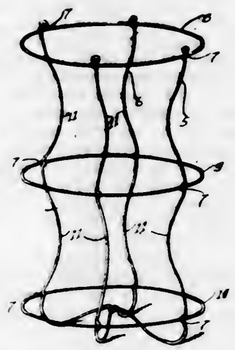
of pawls pivoted on one rim at a comparatively-great angular distance from each other; ratchet teeth on the other rim for driving engagement by said pawls; and an arcuate spring disposed between the cover ring and the inner rim and bearing against both pawls to force them against the ratchet teeth.

1,429,197. BAGGAGE CARRIER. JAMES H. DYETT, Brooklyn, N. Y. Filed Apr. 21, 1921. Serial No. 463,426. 4 Claims. (Cl. 224—29.)



1. The combination with the running board of an automobile, of a baggage carrier comprising spaced supporting arms laterally movable with respect to the running board, a leaf hingedly connected to said arms, a truss arm pivoted to the running board and a flexible connection between the running board and the free edge of the leaf and engageable with the truss arm to constitute a means for retaining said leaf in various angularly adjusted positions.

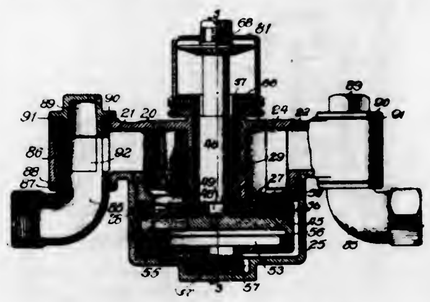
1,429,198. SPRING SHIELD FOR NURSING BOTTLES. ARTHUR J. FAWCETT, Myrtle Creek, Oreg. Filed Apr. 2, 1921. Serial No. 458,148. 3 Claims. (Cl. 215—11.)



3. In a bottle shield, the combination of two substantially U-shaped wires, said U-shaped wires being crossed, notches formed at intervals throughout their length, inwardly curved portions between said notches, and ring members adapted to rest in said notches.

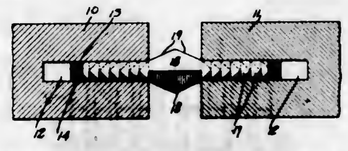
1,429,199. VALVE. JAMES J. FINNEY, Chicago, Ill., assignor of one-fourth to Carl P. Schroeder, one-fourth to Gustav F. Jedlicka, and one-fourth to Raymond D. Bliss, all of Chicago, Ill. Filed Feb. 4, 1918. Serial No. 215,264. 21 Claims. (Cl. 277—69.)

1. A valve structure for fluids comprising a casing having a plurality of inlet passages, and an outlet passage, with means to control said passages, embracing a ported body seat, a ported volume valve element coacting therewith, and a ported inlet proportioning valve element coacting with and operable independently of



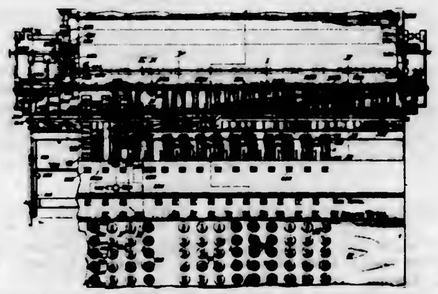
said volume valve elements, and means to operate said valve elements, said valve elements being coaxially disposed, and angularly displaceable about a common, extended axis.

1,429,200. DOWEL PIN. PETER FOTACOS, New York, N. Y. Filed Oct. 29, 1921. Serial No. 511,386. 4 Claims. (Cl. 20—92.)



1. As a new article of manufacture, a self-anchoring dowel pin comprising a longitudinally slotted pin body and a pair of anchoring elements each having anchoring means at one edge and in actuating means disposed centrally of the opposite edge said anchoring elements reversely mounted within the slotted portion of the pin body, and normally lying within the periphery of the pin and the actuating means projecting from diametrically opposite sides of the pin whereby upon advancement toward each other of the members to be joined the said actuating means will be engaged thereby to effect movement thereof toward each other and simultaneously to effect the radial projection of the anchoring means from diametrically opposite sides of the pin body.

1,429,201. ADDING AND RECORDING MACHINE. WILLIAM S. GUBELMANN, Buffalo, N. Y. Filed Jan. 10, 1900. Serial No. 1,004. 298 Claims. (Cl. 235—60.)



5. In a calculating machine, the combination of a plurality of sets of accumulators, movable accumulator con-

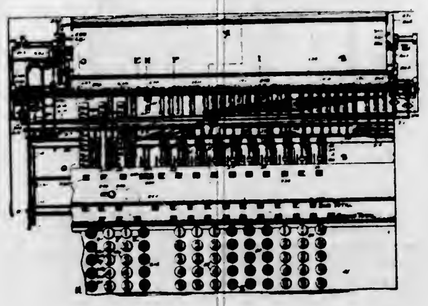
trolling keys provided with mechanism for automatically returning said keys to normal position, whereby any one or any number of the accumulators may be caused to register one or more numbers at a time, and automatic means whereby the accumulations on one set of accumulators may be controlled by the accumulations on another set of accumulators.

38. In a calculating machine, the combination with actuating devices, of a plurality of independently operable groups of totalizer wheels in operative relation thereto, the totalizer wheels of each group being arranged in axial alinement and in progressive denominational order and means for bringing said groups of totalizer wheels into such connection with said actuating devices, that a number registered in one set of totalizer wheels may be transferred to another set of totalizer wheels under control of the set transferred from.

105. The combination of a plurality of sets of accumulators one of which sets is movable independently of another of said sets, actuating means for one of said sets, means whereby a second of said sets is driven by the actuated set simultaneously with the actuation of the latter, and means for turning the accumulators of one of said sets to zero position without affecting the other set.

215. In a calculating machine; the combination of a sub total accumulator and a grand total accumulator; a printing mechanism therefor; depressible keys for controlling said accumulators and said printing mechanism; and means correlated with said accumulators, printing mechanism, and keys, whereby each group of a plurality of groups of items may under the control of said keys be separately totalized on said sub total accumulators and whereby each item of each of said group of items may be printed by said printing mechanism under the control of said keys, and whereby each total of each of said groups of items may be printed by said printing mechanism under the control of said sub total accumulator, and whereby a grand total of all of said totals may be accumulated on said grand total accumulator under the control exercised by said keys for said totalization of said groups of items, and whereby the grand total registered on said grand total accumulator may be printed by said printing mechanism under the control of said grand total accumulator.

1,429,202. ADDING AND RECORDING MACHINE. WILLIAM S. GUBELMANN, Buffalo, N. Y. Filed Apr. 10, 1922. Serial No. 551,298. 49 Claims. (Cl. 235—60.)

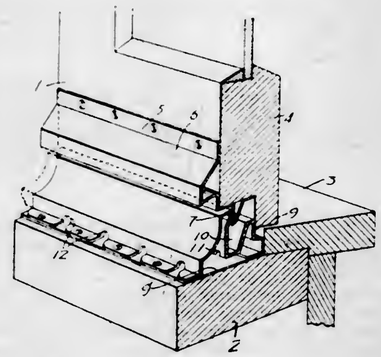


3. In a machine of the class described, the combination of a plurality of accounting devices, and manipulative means under the optional control of the operator for adding or subtracting the amount of one accounting device to the amount standing on another accounting device.

17. A machine for listing items in several successive series and printing the total of each series at the end thereof and a grand total of all of the items at the end of all of the series, comprising printing devices for listing the individual items, a set of accumulator pinions and means for accumulating upon said pinions the individual items of each series listed, a second set of accumulator pinions, means for causing the return of the first mentioned set of pinions to zero position at the end of any series of items and setting up the type to print the total of such series of items and to transfer such total to the second set of pinions and means for causing the subsequent return of the said second set of pinions to zero position and setting up the type to print the grand total of all the series-totals accumulated upon said second set of pinions.

44. In a calculating machine, the combination with toothed actuators, means for controlling the amount of movement of said actuators, two independently operable groups of totalizer wheels in operative relation to said actuators, means for introducing items into one or both totalizers, said means being under control of the operator, and means for transferring numbers from one totalizer to the other; substantially as described.

1,429,203. WEATHER STRIP. JOHANNES HARTSTRA, Grand Rapids, Mich. Filed Nov. 11, 1919. Serial No. 337,164. 2 Claims. (Cl. 20—69.)

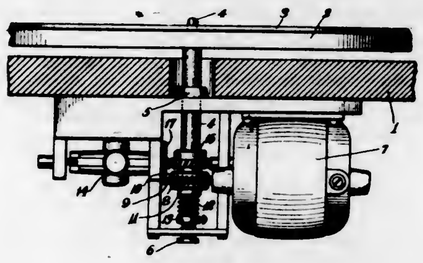


1. A device of the class described comprising an upper section adapted to be affixed to the outer face of a swinging sash and having a pendent water deflecting projection thereon and also having a lower pendent projection with a flat outer face arranged in rear of the first-named projection, a lower section adapted to be fixed upon an outer sill and having a pair of upwardly extended spaced ribs, one to engage the wall of a rabbet at the lower edge of the sash and the other to engage or abut against the flat face of said lower and rear projection, and a trough between said ribs, said trough having drain holes therein.

1,429,204. PHONOGRAPH AND THE LIKE. ROBERT HEAD, New York, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Oct. 29, 1917. Serial No. 199,043. 4 Claims. (Cl. 188—187.)
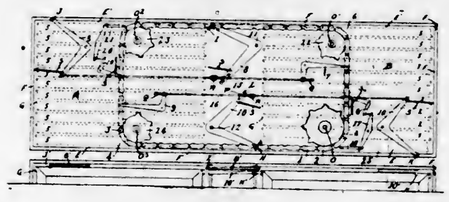
2. In a phonograph, the combination of a turntable shaft, means operative at all times to govern the maximum speed of said shaft, a motor having a speed which is greater than that required to rotate the turntable shaft at its maximum governed speed, and a slip connection mounted on the turntable shaft and forming a drive between the motor and the turntable shaft, said connection being so adjusted as to provide a slippage at all times

between the motor and the turntable shaft and to compensate for variations in the excess speed of the motor



relatively to the speed of the turntable shaft, due to fluctuations in the speed of the motor.

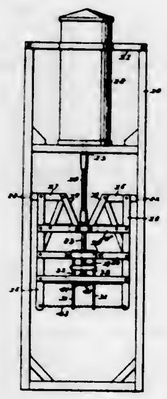
1,429,205. ADVERTISING MACHINE. ROBERT EMMETT HINCHEY, Aurora, Mo. Filed Sept. 29, 1920. Serial No. 413,505. 3 Claims. (Cl. 40—36.)



1. The combination in a one story, two section moving-display advertising machine, of a frame-work supporting an endless-pathway, consisting of a front and rear horizontal card-displaying portion, and two oppositely disposed sections, constituting in themselves, two transverse portions with a narrow space therebetween, a series of card-display carrying-frames supported in said transverse sections to form first and second sets, an endless-chain passed about a large sprocket-wheel mounted on a gear-shaft having a gear, and three small guide-wheels spaced apart in determinate positions, means to continuously rotate the shaft, a gear having operative connection between said shaft and the driving power, a single stiff-pin mounted on said endless chain, adapted to the several tasks of transferring the frames from one set to the other and vice versa, of actuating the means to move said frames in the transverse sections of portions, thereby placing them in position to be transferred, co-operative notches cut in the under edge of the frames for operative engagement while in the horizontal portions, elbow-levers oppositely positioned having arms disposed in timing distances in the transverse path of said actuating-means to effect intermittent bodily movement of all the frames in the transverse portions, while said shaft is turning, substantially as described.

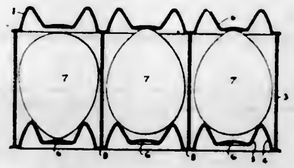
1,429,206. DISTRIBUTOR FOR SPRAYING ANIMALS. JOHN TRUCKENBRODT and NIELS C. JENSEN, Fort Dodge, Iowa. Filed Nov. 8, 1920. Serial No. 422,710. 9 Claims. (Cl. 119—159.)

1. In a distributor for spraying animals, a gate supporting frame, a gate swingingly associated therewith, a tank, a flexible pipe communicating with the tank, a rigid pipe attached to the gate and connected with the flexible pipe, a head attached to the lower end of the rigid pipe and provided with oppositely extending discharge openings, members pivotally attached to the head; means for holding the lower ends of said members seated to close the discharge openings of the head, bars pivotally associated with the gate below the pivotal points of connec-



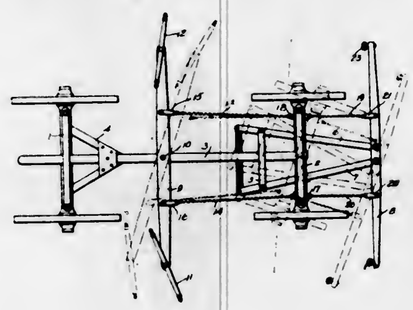
tion of the gate with its frame, a yoke attached to the bars for engagement with the members attached to head, the parts being associated to effect when the gate is swung the opening of one of the discharge openings which is on the opposite side of the gate from the direction in which it is swung.

1,429,207. PACKING FOR FRAGILE ARTICLES. MORRIS KOPPELMAN and SIMON COOPER, Brooklyn, N. Y., assignors of one-half to said Koppelman, and one-half to Leon Mann, New York, N. Y. Original application filed Apr. 15, 1922, Serial No. 553,139. Divided and this application filed July 17, 1922. Serial No. 575,516. 10 Claims. (Cl. 217—27.)



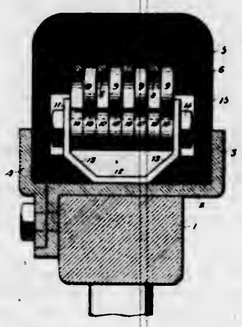
1. A packing for eggs and other fragile globular articles, comprising a sheet having thereon a series of projecting holders each consisting of a round upstanding rim of substantially truncated conical form, an inwardly and downwardly inclined interior part extending to a point near the base of the said upstanding portion, and a central bottom portion, the downward inclination of the said inner portion being approximately tangential to the curve of the article to be placed therein, the space defined by the edge formed by the junction of the upstanding portion and the interior portion being of lesser diameter than the greatest diameter of said article and adapted to hold the latter by contact therewith between its middle and its bottom and the bottom part of the holder being normally below the said bottom of the article.

1,429,208. WAGON-BODY CONSTRUCTION. WESLEY KOUNS, Salina, Kans. Filed Apr. 26, 1921. Serial No. 464,516. 5 Claims. (Cl. 278—1.)



1. A running gear for wagon bodies having a reach bar and front hounds, which comprises a double-tree pivoted to the reach bar between the wheels of the wagon, and a neck-yoke bar attached to the front hounds and extending across the front of the wheels and front axle.

1,429,209. TIRE. VRATISLAV KUBELKA, Brooklyn, N. Y. Filed Jan. 25, 1922. Serial No. 531,666. 6 Claims. (Cl. 152—8.)



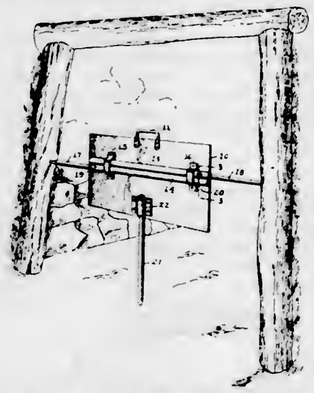
4. In a tire construction, the combination with a rim, of a solid tire on the rim having a recess therein, an annular chain of spring links accommodated in said recess, said links being arranged in groups pivotally connected together, brackets straddling the links at their points of pivotal connection, and bolts passed through the brackets and connecting the links, said brackets supported directly in the rim, the links of said chain comprising elongated body portions bent back upon themselves to form spring loops, said loops rolled back to provide eyes receiving the bolts, said elongated body portions of the links bearing directly against the inner surface of the tire body.

1,429,210. ICE ANCHOR. JOHN P. LACOUR, New York, N. Y. Filed May 27, 1921. Serial No. 473,097. 3 Claims. (Cl. 294—67.)



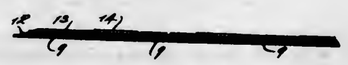
1. As an article of manufacture, an ice anchor comprising vertical arms provided with spurs at their lower ends, supporting lugs at the upper ends of said arms, and pivotally connected horizontal arms.

1,429,211. DANGER SIGNAL FOR MINES. ROBERT W. LIGHTBURN, Gans, Pa. Filed Apr. 17, 1922. Serial No. 553,503. 4 Claims. (Cl. 40—128.)



1. In a device of the class described, a plate member, tubular elements secured to the plate and positioned parallel therewith, arms slidable with reference to the tubular elements and movable in opposite directions, and means for securing the arms.

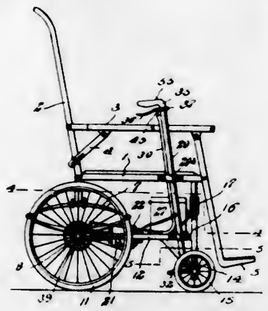
1,429,212. TIRE PROTECTOR. HENRY J. COHRS, Jamaica, N. Y. Filed Apr. 26, 1922. Serial No. 556,756. 1 Claim. (Cl. 152—18.)



In a tire protector adapted to be embedded in a tire, a layer of fabric, plates carried thereby, spaced one from

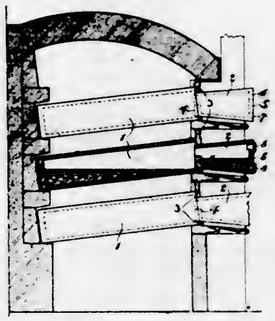
the other, a second layer of fabric applied to the first layer and over said plates, said second layer being forced into the spaces between the plates on the first layer and vulcanized thereto, a third layer of fabric vulcanized to the second layer, said third layer being forced into the forced in portions of the second layer, and plates located in the forced in portion of the third layer.

1,429,213. MOTOR CHAIR. HARRY E. GLADISH, Higginsville, Mo. Filed Feb. 27, 1922. Serial No. 539,535. 5 Claims. (Cl. 180—1.)



1. A motor chair comprising an axle housing, a frame connected to and extending said housing and having uprights at its forward corners, a cross-bar carried at the lower ends of said uprights, knuckles pivotally connected to said cross-bar and bearing steering wheels, axle sections in the housing and bearing drive wheels, an electric motor and a storage battery carried on said frame, a connection between the armature shaft of the motor and the axle sections and including equalizing gearing in the housing, a body spring supported on the corner uprights of the frame and the housing, and a one-hand control carried by the frame and including means to swing the steering wheels and means to establish and interrupt an electric circuit including the storage battery and the motor.

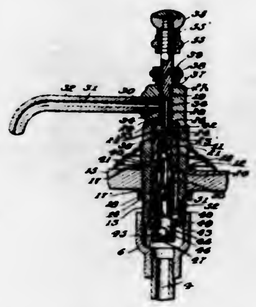
1,429,214. CONDENSER. CHARLES ALBERT WETTENGEL, St. Louis, Mo., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo., a Corporation of Maine. Filed Mar. 4, 1918. Serial No. 220,389. 6 Claims. (Cl. 266—19.)



1. A tapering condenser having a fixed head provided at its larger end with an opening for withdrawing the molten metal, and another opening at its larger end through which the zinc bars may be passed into the retort.

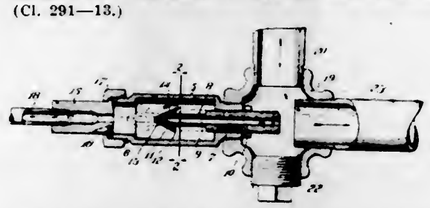
REISSUES.

13,430. LIQUID DISPENSER. GABRIEL A. BOBRICK, Los Angeles, Calif., and ARTHUR L. BOBRICK, New York, N. Y. Filed July 18, 1922. Serial No. 575,820. Original No. 1,364,347, dated Jan. 4, 1921, Serial No. 78,814, filed Feb. 17, 1916. 15 Claims. (Cl. 221—103.)



1. A liquid dispenser comprising a reservoir and a hollow body connected thereto and having a hollow piston, a charge-receiving chamber formed at one end of said piston, a discharge chamber formed at the other end thereof, a passage through said piston connecting said chambers, a valve controlling the passage from said reservoir to said receiving chamber, a valve controlling said passage through said piston, an outlet from said discharge chamber, and means carried by said piston for closing communication from said discharge chamber to said outlet when the piston is in its outward position.

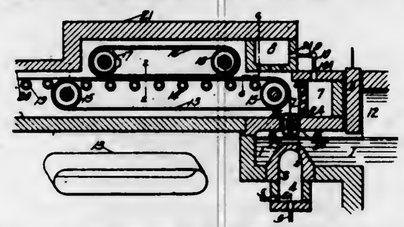
13,451. AIR NOZZLE FOR TRACK SANDERS. ELMER E. BRADLEY, Clinton, Iowa. Filed Apr. 24, 1922. Serial No. 556,341. Original No. 1,280,146, dated Oct. 1, 1918, Serial No. 210,922, filed Jan. 8, 1918. 9 Claims. (Cl. 291—13.)



1. In a device of the class described, a casing having an outlet in one end thereof, a nozzle adjustably secured in said outlet, said nozzle having ports communicating with the bore thereof, with some of the ports being disposed at an angle to the direction of said bore.

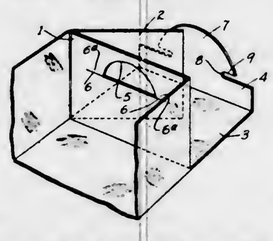
13,452. PROCESS AND APPARATUS FOR MAKING SHEET GLASS. JOHN C. CROWLEY, Cleveland, Ohio, assignor to The Liberty-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed May 8, 1922. Serial No. 559,431. Original No. 1,342,533, dated June 8, 1920, Serial No. 243,981, filed July 8, 1918. 9 Claims. (Cl. 49—17.)

1. In an apparatus for drawing sheet glass, a receptacle for containing a prepared mass of molten glass, means, including an endless metal belt carrier for drawing a continuous sheet of glass from the mass of glass in said receptacle, said metal belt carrier being the means for bending the sheet, the means for supporting and carrying the sheet and the means for flattening the sheet, said metal belt carrier continuously contacting the sheet of glass from the moment that the sheet starts to bend



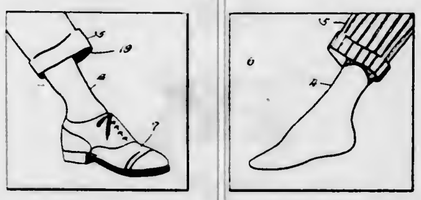
until it is sufficiently flattened and set for the lehr, and means for holding under tension a desired vertical length of the sheet's edge, for maintaining a predetermined width of the sheet drawn.

13,453. FOLDING BOX. EDWARD G. GEREKE, St. Louis, Mo., assignor to Gereke-Allen Carton Company, St. Louis, Mo., a Corporation of Missouri. Filed July 24, 1922. Serial No. 577,230. Original No. 1,364,839, dated Jan. 4, 1921, Serial No. 232,280, filed May 3, 1918. 4 Claims. (Cl. 229—34.)



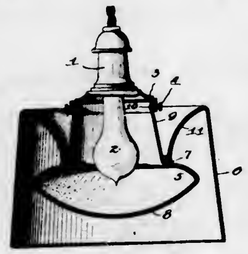
4. A folding cardboard box having an end wall composed of a plurality of overlapped portions, a flap on one of said portions which is adapted to be folded over the inner side of said end wall during the operation of assembling the box, the inner portion of said end wall having an opening, one of whose edges is extended by a lateral slit so as to form a shoulder on said end wall, and a tongue on said flap adapted to be inserted in said opening and forced through said slit, said tongue having a locking shoulder that snaps into engagement with the shoulder on said end wall formed by said lateral slit when said tongue reaches its final position.

13,454. CHANGEABLE SIGN. THEODORE KELLER, New York, N. Y., assignor of one-half to Max Michel, New York, N. Y. Filed July 3, 1922. Serial No. 572,746. Original No. 1,411,439, dated Apr. 4, 1922, Serial No. 489,776, filed Aug. 4, 1921. 4 Claims. (Cl. 40—135.)



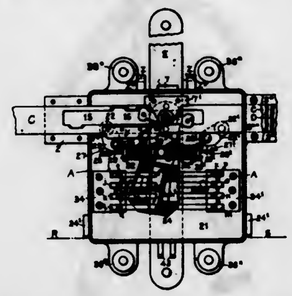
1. A changeable advertising sign consisting of a casing of opaque material and having an open side, lights within said casing, a translucent sheet closing said open side, a representation which is complete in itself but which does not include a representation of the article to be advertised at one side of said sheet and a representation which includes a representation of the article to be advertised and which is supplementary to the first mentioned representation at the other side of said sheet, only one representation being visible from the front when the lights are out and the combination of both representations being visible from the front when the lights are on, the combined representations when viewed together from the front when the lights are on forming a complete clean-cut picture registering as to all its parts whereby the periodic operation of the lights causes two clean-cut pictures to be seen in alternation from the front of the sign, one of said pictures being the representation of something which lacks a feature, said feature which is lacking in the one picture appearing in the other picture, one of which pictures comprises a representation of a thing and the other of which does not comprise the representation of said thing, thereby showing alternately the representation of a thing in operative relation to some other thing and then the representation of one of the things without the other thing.

15,455. ELECTRIC-LIGHT FIXTURE. GUSTAVE E. VILLARET, New York, N. Y. Filed Jan. 10, 1922. Serial No. 528,335. Original No. 1,361,786, dated Dec. 7, 1920, Serial No. 385,528, filed June 1, 1920. 3 Claims. (Cl. 240—92.)



3. An electric light fixture, comprising a globe having an annular shoulder adjacent its lower end, a reflector resting upon said shoulder and intercepting the light from said globe, and a depending flange or shade on the outer periphery of the reflector.

15,456. ELECTRICAL POINT DETECTOR FOR RAILWAYS. GEORGE H. WION, Melbourne, Victoria, Australia, and ALFRED E. HUDD, Liverpool, England. Filed Dec. 24, 1921. Serial No. 524,773. Original No. 1,343,133, dated June 8, 1920, Serial No. 173,659, filed June 8, 1917. 10 Claims. (Cl. 246—158.)



1. Detector apparatus for switch points including intersecting bars, levers to co-act with the bars, and a controller to be moved or oscillated near the point of intersection of the bars, as and for the purposes set forth.

DESIGNS.

61,459. SWEATER. BARNETT BECKENSTEIN, Brooklyn, N. Y. Filed May 22, 1922. Serial No. 2,364. Term of patent 3½ years.



The ornamental design for a sweater, as shown.

61,460. FINGER RING. JOHN M. BENISON, Camden, N. J. Filed July 8, 1921. Serial No. 483,371. Term of patent 3½ years.



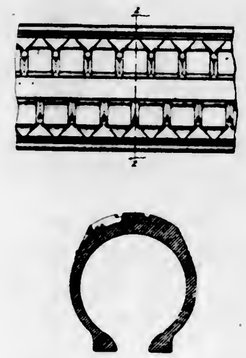
The ornamental design for a finger ring, as shown and described.

61,461. DOLL. EDSON B. CARD, New York, N. Y. Filed June 12, 1922. Serial No. 2,631. Term of patent 7 years.



The ornamental design for a doll, as shown.

61,462. NONSKID TIRE. JOHN N. CARTER, Trenton, N. J., assignor to Bergougnan Rubber Corporation, Wilmington, Del., a Corporation of Delaware. Filed Jan. 12, 1922. Serial No. 186. Term of patent 14 years.



The ornamental design for a nonskid tire, as shown.

61,463. ASH TRAY OR THE LIKE. RUSSEL A. COWLES, New York, N. Y., assignor to Ansonia Clock Co., Brooklyn, N. Y., a Corporation of Connecticut. Filed Mar. 1, 1922. Serial No. 973. Term of patent 14 years.



The ornamental design for an ash tray or the like, as shown.

61,464. ASH TRAY OR THE LIKE. RUSSEL A. COWLES, New York, N. Y., assignor to Ansonia Clock Co., Brooklyn, N. Y., a Corporation of Connecticut. Filed Feb. 28, 1922. Serial No. 945. Term of patent 14 years.



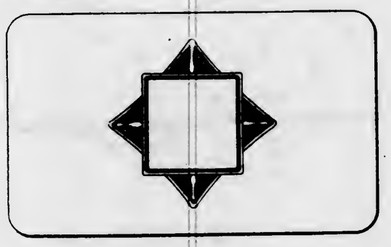
The ornamental design for an ash tray or the like, as shown.

61,465. DOLL. REES DAVIS, Chicago, Ill. Filed Apr. 22, 1922. Serial No. 1,916. Term of patent 3½ years.



The ornamental design for a doll, as shown.

61,466. BUSINESS CARD. STEWART P. FOLTZ, New Castle, Pa. Filed Feb. 14, 1921. Serial No. 445,006. Term of patent 3½ years.



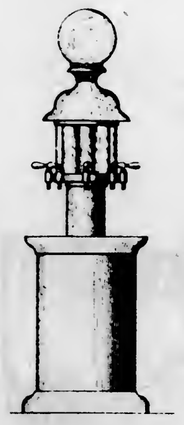
The ornamental design for a business card, as shown.

61,467. PHONOGRAPH CABINET. CICERO HINE, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 12, 1922. Serial No. 182. Term of patent 7 years.



The ornamental design for a phonograph cabinet as shown.

61,468. LUBRICANT-DISPENSING APPARATUS. WESLEY E. KEESEE, Los Angeles, Calif. Filed Oct. 22, 1921. Serial No. 509,743. Term of patent 7 years.



The ornamental design for a lubricant dispensing apparatus, as shown.

61,469. DOLL. IMOGENE KIDDER and LENNA MELTON, Portland, Oreg. Filed Apr. 13, 1922. Serial No. 1,718. Term of patent 3½ years.



The ornamental design for a doll, as shown.

61,470. ASH TRAY. STEPHEN KRONBURGER, Jersey City, N. J., assignor to Cohan-Epner Co., New York, N. Y. Filed May 5, 1921. Serial No. 467,227. Term of patent 7 years.



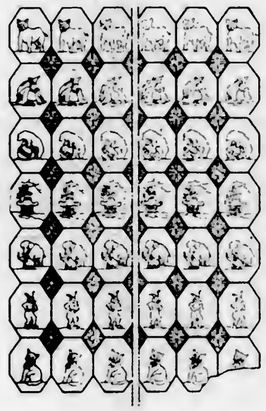
The ornamental design for an ash tray as shown.

61,471. MANIKIN. JOHN EMERY LESTER, Seattle, Wash. Filed Apr. 16, 1921. Serial No. 462,040. Term of patent 3½ years.



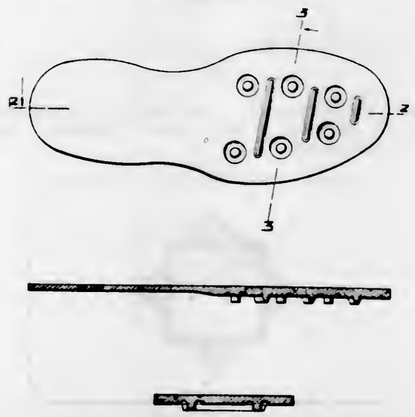
The ornamental design for a manikin, as shown.

61,472. BABY-CRIB COVER. DAVID LEVY, New York, N. Y. Filed May 17, 1922. Serial No. 2,290. Term of patent 3½ years.



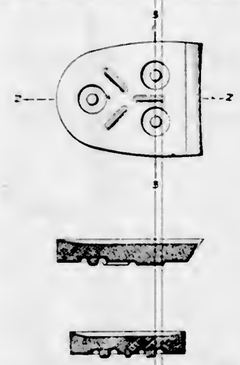
The ornamental design for a baby crib cover as shown and described.

61,473. SOLE. HERBERT T. MASON, North Brookfield, Mass., assignor to Quabaug Rubber Company, Brookfield, Mass., a Corporation of Massachusetts. Filed Dec. 19, 1921. Serial No. 523,567. Term of patent 14 years.



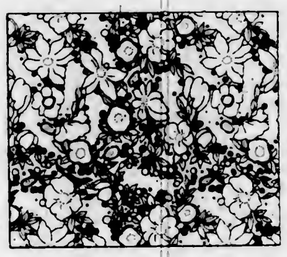
The ornamental design for a sole, as shown.

61,474. HEEL. HERBERT T. MASON, North Brookfield, Mass., assignor to Quabaug Rubber Company, Brookfield, Mass., a Corporation of Massachusetts. Filed Dec. 19, 1921. Serial No. 523,568. Term of patent 14 years.



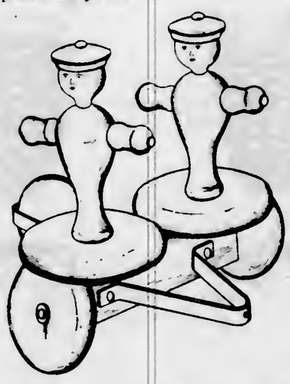
The ornamental design for a heel, as shown.

61,475. PAPER OR SIMILAR ARTICLE OF MANUFACTURE. FRANK J. M. MILES, New York, N. Y., assignor to Cheramy, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 15, 1922. Serial No. 714. Term of patent 7 years.



The ornamental design for paper or similar article of manufacture substantially as shown.

61,476. WHEELED TOY. CHARLES HAMILTON PAJEAU, Evanston, Ill. Filed Jan. 14, 1922. Serial No. 201. Term of patent 14 years.



The ornamental design for a wheeled toy, as shown.

61,477. BADGE, PIN, RING, EMBLEM, OR ARTICLE OF SIMILAR NATURE. HENRY W. PETERS, Boston, Mass. Filed Apr. 25, 1922. Serial No. 1,963. Term of patent 7 years.



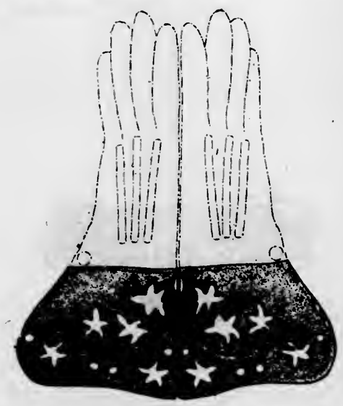
The ornamental design for a badge, pin, ring, emblem, or article of similar nature, as shown.

61,478. DOLL. SAMUEL REICH, New York, N. Y. Filed May 10, 1922. Serial No. 2,174. Term of patent 3½ years.



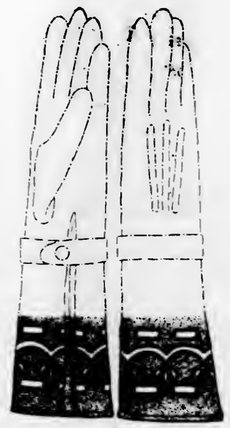
The ornamental design for a doll as shown and described.

61,479. GLOVE GAUNTLET. JEROME RICE, New York, N. Y., assignor to Wimelbacher & Rice, New York, N. Y., a Firm. Filed May 9, 1922. Serial No. 2,144. Term of patent 3½ years.



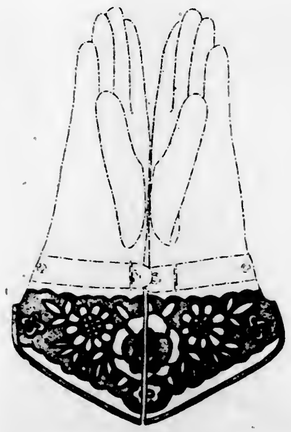
The ornamental design for a glove gauntlet, substantially as shown and described.

61,480. GLOVE GAUNTLET. JEROME RICE, New York, N. Y., assignor to Wimelbacher & Rice, New York, N. Y., a Firm. Filed May 9, 1922. Serial No. 2,145. Term of patent 3½ years.



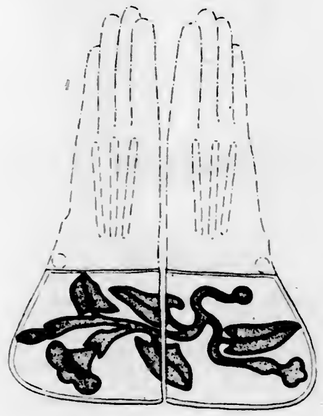
The ornamental design for a glove gauntlet, substantially as shown.

61,481. GLOVE GAUNTLET. JEROME RICE, New York, N. Y., assignor to Wimelbacher & Rice, New York, N. Y., a Firm. Filed May 9, 1922. Serial No. 2,146. Term of patent 3½ years.



The ornamental design for a glove gauntlet, substantially as shown.

61,482. GLOVE GAUNTLET. JEROME RICE, New York, N. Y., assignor to Wimelbacher & Rice, New York, N. Y., a Firm. Filed May 9, 1922. Serial No. 2,147. Term of patent 3½ years.



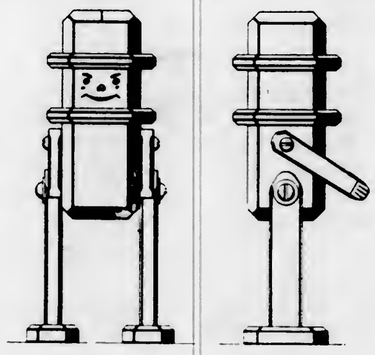
The ornamental design for a glove gauntlet, substantially as shown.

61,483. DOLL. MARTIN R. SCHNACK, Los Angeles, Calif. Filed Dec. 29, 1920. Serial No. 433,948. Term of patent 3½ years.



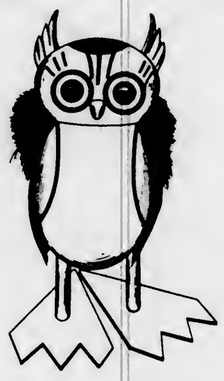
The ornamental design for a doll, as shown.

61,484. TOY. FRANK H. STEACY, York, Pa. Filed Feb. 4, 1922. Serial No. 540. Term of patent 3½ years.



The ornamental design for a toy as shown.

61,485. TOY ANIMAL. STEPHEN J. TAMO, Livermore, Calif. Filed Feb. 15, 1922. Serial No. 711. Term of patent 3½ years.



The ornamental design for a toy animal, as shown.

61,486. RING. ALBERT VERBER, New York, N. Y. Filed May 5, 1922. Serial No. 2,091. Term of patent 7 years.



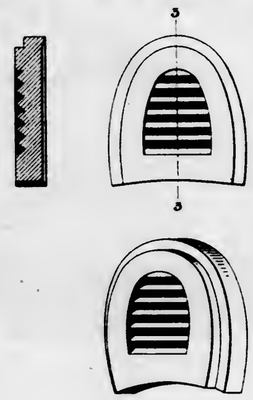
The ornamental design for a ring, as shown.

61,487. RING. ALBERT VERBER, New York, N. Y. Filed May 5, 1922. Serial No. 2,092. Term of patent 7 years.



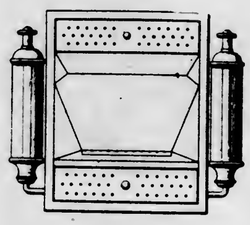
The ornamental design for a ring, as shown.

61,488. RUBBER HEEL. GEORGE W. WATSON, Boston, Mass. Filed Apr. 17, 1922. Serial No. 1,801. Term of patent 14 years.



The ornamental design for a rubber heel, as shown.

61,489. HEATER. ETIENNE WITZBERGER, Carnegie, Pa. Filed Feb. 28, 1921. Serial No. 448,617. Term of patent 7 years.



The ornamental design for a heater as shown.

61,490. WATCHCASE BOW. LOIS MCG. WILLIAMS, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed May 15, 1922. Serial No. 2,248. Term of patent 14 years.



The ornamental design for a watchcase bow, substantially as shown.

61,491. WATCHCASE BOW. LOIS MCG. WILLIAMS, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed May 15, 1922. Serial No. 2,249. Term of patent 14 years.



The ornamental design for a watchcase bow, substantially as shown.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 12, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 109,299. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) W. S. NOTT COMPANY, Minneapolis, Minn. Filed Mar. 1, 1918.



Particular description of goods.—Pump Leathers, Cut Lace, Hose Washers of Leather, Spiral Packing of Leather, and Diamond Square Flax Packing.
Claims use since about Jan. 1, 1888.

Ser. No. 123,504. (CLASS 37. PAPER AND STATIONERY.) HIGHLAND MANUFACTURING COMPANY, Holyoke, Mass. Filed Dec. 2, 1919.



Trade-mark "Carolawn."
Particular description of goods.—Writing, Typewriting, and Printing Papers, Papeteries, Writing, Correspondence, and Index Cards, and Writing Tablets and Pads.
Claims use since about July 3, 1919.

Ser. No. 132,127. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE THEOBALD FLOUR MILLS CO., Northfield, Minn. Filed May 6, 1920.



Particular description of goods.—Wheat Flour.
Claims use since about July 21, 1919.

Ser. No. 133,871. (CLASS 6. CHEMICALS. MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Aug. 6, 1920.



Particular description of goods.—Coal-Tar Colors.
Claims use since Jan. 16, 1914.

Ser. No. 137,263. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM H. MILLEMAN, doing business as American Soap Company, Oakland, Calif. Filed Sept. 16, 1920.

JAZZ

Particular description of goods.—Automobile and Furniture Polish.
Claims use since Aug. 6, 1919.

Ser. No. 137,503. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT A. TRIBBLE, doing business as The Groceriane Stores Association, Cedarbluff, Miss. Filed Sept. 22, 1920.

GROCERLANE

Particular description of goods.—Canned Corn, Canned Peas, Wheat Flour, and Coffee.
Claims use since July 1, 1920.

Ser. No. 139,153. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LOUIS DEUTSCH, doing business as Eagle Knitting Mill of New York, New York, N. Y. Filed Nov. 4, 1920.



No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Sanitary Napkins.
Claims use since June, 1912.

Ser. No. 139,349. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) DETROIT RANGE BOILER AND STEEL BARREL CO., Detroit, Mich. Filed Nov. 8, 1920. Under ten-year proviso.

STAR



Particular description of goods.—Range Boilers.
Claims use since 1894.

Ser. No. 141,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NAAMLOOZE VENNOOTSCHAP CHEMISCHE FABRIEK "VANOR," Hilversum, Netherlands. Filed Jan. 6, 1921.

MATAFTO

Trade-mark "Matafto."
Particular description of goods.—Remedy Against Foot-and-Mouth-Disease (Murrain).
Claims use since Nov. 17, 1920.

Ser. No. 143,714. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILFRED T. SHAFE, doing business as O-Jib-Wa's Indian Medicine Company, Flint, Mich. Filed Feb. 17, 1921.

O-JIB-WA
INDIAN BITTERS



No claim is made to the word "Bitters" apart from the mark as shown. The portrait is that of applicant.
Particular description of goods.—Medicinal Bitters.
Claims use since Jan. 1, 1918.

Ser. No. 144,979. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE POAGE-WALL MILLING COMPANY, Catlettsburg, Ky. Filed Mar. 19, 1921.



Particular description of goods.—Flour.
Claims use since Feb. 1, 1921.

Ser. No. 145,144. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass. Filed Mar. 23, 1921.



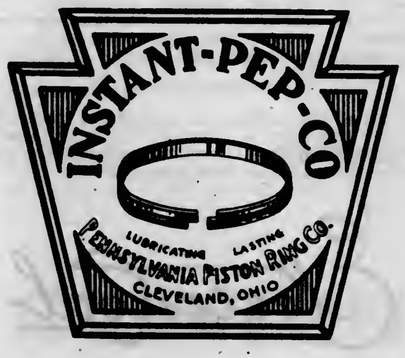
Particular description of goods.—Barbed-Wire Cashier Cages and Stock-Room Inclosures; Clamps and Clips for Wire Rope, Wire Cloth with Diamond Mesh, Square Mesh, and Double Crimped; Wire Cloth of Brass, Bronze, and Copper, Black and Galvanized; Wire Cloth for Window Screens and Conveyor Belts; Enameled-Metal Bathroom Fixtures Made Wholly or Partly of Wire and Comprising Tumbler Holders, Soap Holders, Shelf Brackets, Toilet-Paper Holders, Sponge Holders, Tooth Brush and Paste Holders, Towel Bars, and Garment Hooks; Ornamental Iron Fence, Poultry and Rabbit Fence, Fish Flakes Made Partly of Woven Wire and Used for Supporting Fish During the Drying Operation; Folding Gates, Wire Grilles, Picket-Fence and Grille Gates; Wire Guards for Flower Beds, Lawns, Fruit Trees, Machines, Windows, Stalls, and General Purposes; Wire Hooks and Haspa; Kitchen Goods Made Wholly or Partly of Wire and Comprising Tea and Coffee Strainers, Bowl Strainers, Dish Covers, Soap and Sponge Brackets, Broilers and Toasters, Dish Drainers, Soap Savers, Garment Hangers, and Corn Poppers; Wire Mats; Nails, Staples, and Tacks; Poultry, Locomotive, Glass, and Fish-Trap Wire Nettings; Trellis and Arches, Plant Supports, Hayracks for Mangers; Railings, Ornamental Screens; Metal Sign Foundations Made Wholly or Partly of Wire; Wire-Rope Thimbles, Open and Closed Sockets, and Fittings; Spiral-Wire Fabrics for Conveyor Belts, Springs for Special and General Purposes, Eaves-Trough Strainers, Metallic Belt Lacing, Welded Fabric and Screen, and Wire Fence, Gates, Metal Posts, Clamps, and Fittings.
Claims use since July, 1920.

Ser. No. 145,858. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RICHMOND LACE WORKS, Alton, R. I. Filed Apr. 7, 1921.



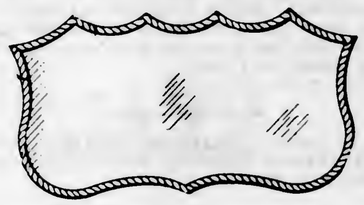
Particular description of goods.—Lace in the Piece.
Claims use since Dec. 14, 1916.

Ser. No. 146,732. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) PENNSYLVANIA PISTON RING COMPANY, Cleveland, Ohio. Filed Apr. 25, 1921.



No claim is made to the words "Lubricating, Lasting, Cincinnati, Ohio," nor is any claim made to the representation of the goods apart from the mark shown in the drawing. The lining on drawing indicates shading.
Particular description of goods.—Piston and Packing Rings.
Claims use since June, 1920.

Ser. No. 147,036. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE MECHANICAL RUBBER COMPANY, New York, N. Y., Chicago, Ill., and Cleveland, Ohio. Filed Apr. 30, 1921.



Particular description of goods.—Jar Rings, Rubber Belting, Hose, and Packing.
Claims use since about Dec. 15, 1880.

Ser. No. 148,104. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. ARONOVICH, Havre, Mont. Filed May 23, 1921.



No claim is made herein apart from the mark shown to the words "Trade Mark," "Prepared by," and "Havre, Mont.," and "The Best Reliever for Rheumatism."
Particular description of goods.—Medicine for Rheumatism.
Claims use since Jan. 3, 1921.

Ser. No. 148,606. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MAGEE FURNACE COMPANY, Boston, Mass. Filed June 3, 1921.

ElectriCoal

No claim is made to the exclusive right to the words "Electric" and "Coal" apart from the mark shown on the drawing.
Particular description of goods.—Combination Stoves or Ranges Heated by the Burning of Combustible Fuel and Electricity.
Claims use since Apr. 20, 1921.

Ser. No. 148,766. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) STREVELL-PATERSON HARDWARE CO., Salt Lake City, Utah. Filed June 6, 1921.



Particular description of goods.—Blow-Out Patches, Fruit-Jar Rubbers, and Garden Hose.
Claims use since Dec. 17, 1903.

Ser. No. 149,018. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES MCADAM CO., Chicago, Ill. Filed June 11, 1921.

HYDRAZENE

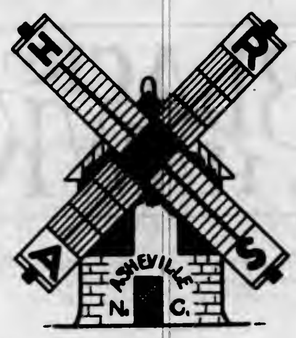
Particular description of goods.—Chemical Compound for Removing Rust and Other Spots from Fabrics.
Claims use since May 21, 1921.

Ser. No. 151,101. (CLASS 39. CLOTHING.) THE SCHOELLKOPF CO., Dallas, Tex. Filed July 29, 1921.



No claim is made to the following words apart from the mark shown by the drawing—namely, "Trade Mark," "Famous the World Over," "Brand," "Manufactured by," and "Dallas, Texas, U. S. A."
Particular description of goods.—Shoe and Boot Linings (Cut Out), Shoe and Boot Uppers, Rubber and Leather Heels and Soles, and Canvas Shoes.
Claims use since about July 1, 1920.

Ser. No. 151,674. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ROBERT FRANK HOLLAND, Asheville, N. C. Filed Aug. 11, 1921.



No claim is made for "Asheville, N. C." apart from the mark shown in the drawing.
Particular description of goods.—Removable Waterproof Covers for Wagons and Rolling Vehicles.
Claims use since June 13, 1921.

Ser. No. 152,721. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIÉTÉ ANONYME DES ETABLISSEMENTS JUSTIN DUPONT, Argenteuil, France, assignors to Justin Dupont, Inc., of New York, N. Y., a Corporation of New York. Filed Sept. 8, 1921.



Particular description of goods.—Synthetic Oils and Aromatic Chemicals Used in the Production of Perfumes.
Claims use since Mar. 10, 1904.

Ser. No. 152,725. (CLASS 39. CLOTHING.) HENRY SONNEBORN & CO., INC., Baltimore, Md. Filed Sept. 8, 1921.

Styleplus

Particular description of goods.—Shoes of Leather, Fabric, and Combinations of Leather and Fabric.
Claims use since Sept. 1, 1921.

Ser. No. 152,781. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BURNETT'S INCORPORATED, Newark, N. J. Filed Sept. 10, 1921.

PEP

Particular description of goods.—Tonic Bird Food.
Claims use since June 2, 1921.

Ser. No. 153,139. (CLASS 12. CONSTRUCTION MATERIALS.) HAMILTON-HILL VENEER CO., INC., Orangeburg, S. C., assignor to The Edisto Veneer Co., Inc., of Orangeburg, S. C., a Corporation of South Carolina. Filed Sept. 20, 1921.



The words "Quality—Service" are disclaimed except as associated with the mark shown without waiving any rights which have or may accrue under common-law doctrine of unfair competition.
Particular description of goods.—Lumber in the Nature of Foundation Strips for Veneered Products, Boxes, and Crates.
Claims use since Aug. 18, 1921.

Ser. No. 153,192. (CLASS 12. CONSTRUCTION MATERIALS.) WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass. Filed Sept. 21, 1921. Under ten-year proviso.

CLINTON

Trade-mark "Clinton."
Particular description of goods.—Wire Lathing and Welded Sheathing.
Claims use since 1856.

Ser. No. 153,535. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BAER BROTHERS, New York, N. Y. Filed Sept. 30, 1921.

THE PAINT WITH THE TWO BEARS
It Wears

No claim is made to exclusive right to the words "It Wears" or "Paint" apart from the mark as shown in the drawing.

Particular description of goods.—Paste and Ready-Mixed Paints and Varnishes.

Claims use since Jan. 2, 1921.

Ser. No. 154,072. (CLASS 39. CLOTHING.) WITCHELL-SHEILL COMPANY, Detroit, Mich. Filed Oct. 13, 1921.

Witch-Elk

The lining on the trade-mark as it appears on the drawing is for shading purposes only and does not indicate color.

Particular description of goods.—Leather Shoes.

Claims use since October, 1904.

Ser. No. 154,300. (CLASS 39. CLOTHING.) J. J. BEYERLE MFG. CO., New York, N. Y. Filed Oct. 19, 1921.

PURITAN
MADE BY BEYERLE
PURITAN PRODUCTS PROTECT
NEW YORK, U.S.A.

No claim is made to the words "Made by Beyerle" and "New York, U. S. A." apart from the mark as shown, no common-law rights in the word "Beyerle" being hereby disclaimed.

Particular description of goods.—Sanitary Aprons, Sanitary Belts, and Baby Pants.

Claims use since Nov. 1, 1920.

Ser. No. 154,615. (CLASS 39. CLOTHING.) J. H. C. PETERSEN'S SONS COMPANY, Davenport, Iowa. Filed Oct. 26, 1921.

BLACK HAWK

Particular description of goods.—Negligee Shirts, Work Shirts, Overalls, and Men's Trousers.

Claims use since Aug. 27, 1921.

Ser. No. 154,897. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED ALLOY STEEL CORPORATION, New York, N. Y., and Canton, Ohio. Filed Nov. 1, 1921. Under ten-year proviso.

BERGER

Particular description of goods.—Steel Roofing, Steel Siding, Steel Ceilings, Metal Lath, Metal Lumber, Corrugated Cores, and Reenforcing Plates.

Claims use since 1890.

Ser. No. 154,990. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NICHOLLS-LOOMIS CO., Los Angeles, Calif. Filed Nov. 3, 1921.

ORANGE BRAND

The word "Brand" is disclaimed apart from the word "Orange."

Particular description of goods.—Live Stock and Poultry Feeds, and Family and Bakers' Wheat Flour, Graham Flour, Rye Flour, White and Yellow Corn Meal, and Bran.

Claims use since January, 1910.

Ser. No. 156,247. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLARD WHITE, doing business as Key Kno Company, Boise, Idaho. Filed Dec. 3, 1921.

KEY KNO-KNO YOUR KEY

Particular description of goods.—Ready-Mixed Paints.

Claims use since Sept. 1, 1921.

Ser. No. 156,454. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARVEY G. MITCHELL, doing business as The Hardwood & Parquetry Floor Company, Philadelphia, Pa. Filed Dec. 8, 1921.

MEL-BAH-GIM

Particular description of goods.—Liquid Polish for Hardwood Floor, Furniture, Pianos, and Automobiles.

Claims use since Nov. 22, 1921.

Ser. No. 156,735. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. DUNLEAVY, Cambridge, Mass. Filed Dec. 15, 1921.

Sanitax

Particular description of goods.—Toilet Waters, Face Creams, and Hair Tonics.

Claims use since Dec. 8, 1921.

Ser. No. 157,531. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ORANGE CRUSH COMPANY, Chicago, Ill. Filed Jan. 5, 1922.

Ward's

The name "Ward's" is in handwriting of one Neil C. Ward, vice president of the Orange Crush Co.

Particular description of goods.—Nonalcoholic, Maltless Beverages and Concentrates and Compounds for Making the Same.

Claims use since June 20, 1916.

Ser. No. 157,603. (CLASS 15. OILS AND GREASES.) R. G. CUNNINGHAM OIL CO., Miami, Okla. Filed Jan. 7, 1922.

CIRCLE-C.

Particular description of goods.—Illuminating and Lubricating Oils and Greases.

Claims use since Jan. 1, 1915.

Ser. No. 157,621. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NORTH AMERICAN IMPORT CO., Chicago, Ill. Filed Jan. 7, 1922.

NORAMICO

"It lasts longer"

No claim is made to the words "It Lasts Longer" apart from the mark shown in the drawing.

Particular description of goods.—Hair Nets.

Claims use since Nov. 26, 1921.

Ser. No. 157,775. (CLASS 15. OILS AND GREASES.) RIO GRANDE OIL COMPANY, El Paso, Tex. Filed Jan. 11, 1922.

SPEEDENE

Particular description of goods.—Gasoline, Kerosene Distillate, Gas Oil, Fuel Oil, Illuminating and Lubricating Oils and Greases.

Claims use since Dec. 17, 1921.

Ser. No. 157,940. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) MIT-SHEL STAMPING MFG. CO., Quincy, Ill. Filed Jan. 14, 1922.

UP TO DATE
MIT-SHEL STAMPING MF'G.CO.
QUINCY, ILL.

No claim is made to the words "Up to Date" nor the words "Quincy, Ill.," as part of the trade-mark submitted for registration.

Particular description of goods.—Poultry and Hog Equipment—Viz, Feeders and Feeding Troughs, Poultry Coops, and Hog Troughs.

Claims use since about the last of September, 1921.

Ser. No. 158,703. (CLASS 10. FERTILIZERS.) CORONET PHOSPHATE COMPANY, New York, N. Y. Filed Feb. 1, 1922.

PUREFOS

Particular description of goods.—Pebble Phosphate.

Claims use since Jan. 18, 1922.

Ser. No. 158,753. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR J. BAFALIS, doing business as Pearledent Chemical Laboratories, Manchester, N. H. Filed Feb. 2, 1922.

PEARLEDENT

Particular description of goods.—Medicated Dentifrice.

Claims use since about August, 1921.

Ser. No. 158,786. (CLASS 2. RECEPTACLES.) THE MINNEAPOLIS SOCIETY FOR THE BLIND, Minneapolis, Minn. Filed Feb. 2, 1922.

VICTOR PRODUCTS
MINNEAPOLIS SOCIETY FOR THE BLIND

No claim is made for the words "Products Hand Made by the Blind" apart from the arrangement made in the drawing; but said disclaimer is made without waiving any rights that we may have thereto under the common law.

Particular description of goods.—Woven Baskets.

Claims use since Nov. 7, 1921.

Ser. No. 158,801. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS SISMAN, Philadelphia, Pa. Filed Feb. 2, 1922.

THE PURPLE LAXATIVE

No claim is made to the words "Purple Laxative" apart from the mark shown on drawing. The shading on drawing denotes purple coloring.

Particular description of goods.—Medicinal and Pharmaceutical Preparation for Use as a Laxative in the Treatment of Indigestion, Constipation, and Various Stomach Disorders.

Claims use since Jan. 1, 1921.

Ser. No. 159,121. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY,) Bayonne, N. J. Filed Feb. 9, 1922.

CASTAN

Particular description of goods.—Lubricating Oils.

Claims use since Aug. 17, 1921.

Ser. No. 159,122. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY,) Bayonne, N. J. Filed Feb. 9, 1922.

UNIVIS

Particular description of goods.—Lubricating Oils.

Claims use since June 15, 1917.

Ser. No. 159,123. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY,) Bayonne, N. J. Filed Feb. 9, 1922.

FAXAM

Particular description of goods.—Lubricating Oils.

Claims use since June 15, 1917.

Ser. No. 159,124. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY,) Bayonne, N. J. Filed Feb. 9, 1922.

FEBIS

Particular description of goods.—Lubricating Oils.

Claims use since June 15, 1917.

Ser. No. 159,125. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY,) Bayonne, N. J. Filed Feb. 9, 1922.

FANOX

Particular description of goods.—Lubricating Oils.

Claims use since June 15, 1917.

Ser. No. 159,126. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY,) Bayonne, N. J. Filed Feb. 9, 1922.

FORUM

Particular description of goods.—Lubricating Oils.

Claims use since June 15, 1917.

Ser. No. 159,127. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY,) Bayonne, N. J. Filed Feb. 9, 1922.

JUNIOR

Particular description of goods.—Lubricating Oils.

Claims use since Nov. 9, 1906.

Ser. No. 159,128. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY,) Bayonne, N. J. Filed Feb. 9, 1922.

DRUID

Particular description of goods.—Lubricating Oils.

Claims use since about Jan. 1, 1898.

Ser. No. 159,129. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY,) Bayonne, N. J. Filed Feb. 9, 1922.

CANTHUS

Particular description of goods.—Lubricating Oils.

Claims use since June 15, 1917.

Ser. No. 159,130. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY,) Bayonne, N. J. Filed Feb. 9, 1922.

ROXTONE

Particular description of goods.—Lubricating Oils.

Claims use since Oct. 7, 1920.

Ser. No. 159,231. (CLASS 2. RECEPTACLES.) THE WHITE TAR COMPANY, New York, N. Y. Filed Feb. 17, 1922.

THE BLUE BIRD

Particular description of goods.—Mothproof Garment Bags.

Claims use since Jan. 3, 1922.

Ser. No. 159,262. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JOSEPH F. HERMAN, doing business as Herman Manufacturing Company, Washington, D. C. Filed Feb. 13, 1922.

LITTLE GIANT

Particular description of goods.—Chain Connectors.
Claims use since Feb. 8, 1922.

Ser. No. 159,420. (CLASS 2. RECEPTACLES.) KNAPP MANUFACTURING COMPANY, Lebanon, N. H. Filed Feb. 16, 1922.

NAPCO

Particular description of goods.—Receptacles for Washing and Cleaning Solutions, Particularly Useful in Washing Motor Vehicles, Consisting of a Bucket, a False Perforated Bottom to be Arranged within the Bucket and Spaced from the Bottom of the Bucket, and a Cylindrical Perforated Soap Container Carried by the False Bottom.
Claims use since Oct. 10, 1921.

Ser. No. 159,446. (CLASS 10. FERTILIZERS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Feb. 16, 1922.

Ben Franklin

Particular description of goods.—Agricultural Gypsum and Land Plaster.
Claims use since October, 1918.

Ser. No. 159,631. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE UNITED STATES GRAPHITE COMPANY, Saginaw, Mich. Filed Feb. 20, 1922.

KARBONARO

Particular description of goods.—Paint Pigment.
Claims use since Jan. 25, 1922.

Ser. No. 159,841. (CLASS 39. CLOTHING.) THE BRUNSTADT CO. INC., Newark, N. J. Filed Feb. 27, 1922.



Particular description of goods.—Silk Hosiery, Silk Underwear, and Gloves of Leather and of Fabric.
Claims use since Sept. 3, 1920.

Ser. No. 159,912. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WELCH AND WOODSUM, doing business as O. K. Manufacturing Company, Haverhill, Mass. Filed Feb. 27, 1922.

O.K.

Particular description of goods.—Toothache Drops.
Claims use since about Sept. 1, 1921.

Ser. No. 159,973. (CLASS 43. THREAD AND YARN.) THE LINEN THREAD CO., doing business as The Finlayson Flax Spinning Co., Boston, Mass. Filed Feb. 28, 1922. Under ten-year proviso.

GRAFTON

Trade-mark consists of the word "Grafton."
Particular description of goods.—Linen Thread—viz, Stitching Thread, Boot Thread, and Machine Thread.
Claims use since October, 1880.

Ser. No. 160,043. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BUFFALO DENTAL MANUFACTURING CO., Buffalo, N. Y. Filed Mar. 2, 1922.

BUFFDENTCO

Particular description of goods.—Dental Vulcanizers, Dental-Vulcanizer Heaters, and Dental Anvils.
Claims use since Dec. 8, 1921.

Ser. No. 160,106. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN MACHINE PRODUCTS CO., Detroit, Mich. Filed Mar. 3, 1922.

AMPCO

Particular description of goods.—Twist Drills, Milling Cutters and Reamers.
Claims use since November, 1917.

Ser. No. 160,243. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES W. HORN, Slatington, Pa. Filed Mar. 6, 1922.

TELEPHONE

Particular description of goods.—Liniment for Sprains, Bruises, and Chilblains; Cough Sirup, Liver Pellets, Corn Relief, Worm Tablets, Toothache Drops, Headache Tablets, Antipain Balm for Catarrh, Baby Anodyne for Colic, Whooping-Cough Remedy, and Cold-Cure Tablets.
Claims use since Apr. 1, 1884.

Ser. No. 160,283. (CLASS 2. RECEPTACLES.) CADMUS PRODUCTS COMPANY, Bayonne, N. J. Filed Mar. 7, 1922.

MASTER

Particular description of goods.—Receptacles.
Claims use since Aug. 15, 1921.

Ser. No. 160,301. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOSEPH REID GAS ENGINE COMPANY, Oil City, Pa. Filed Mar. 7, 1922.

Reid

Particular description of goods.—Gas Engines and Gas-Engine Parts.
Claims use since 1899.

Ser. No. 160,373. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TURLINGTON-CHEMICAL COMPANY, Baltimore, Md. Filed Mar. 8, 1922.

TRI-UNE
3 in 1
REMEDY

No claim being made to the word "Remedy" apart from the mark as shown.
Particular description of goods.—Remedy for Tender Sweaty Feet, Perspiration Odors, Callous, and Corns.
Claims use since Nov. 1, 1921.

Ser. No. 160,374. (CLASS 39. CLOTHING.) THE UTILITY RUBBER GOODS COMPANY, Cleveland, Ohio. Filed Mar. 8, 1922.



No claim is made to exclusive use of the words "Safety All the Time" apart from the mark as shown.
Particular description of goods.—Bathing Suits.
Claims use since Nov. 15, 1921.

Ser. No. 160,445. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TRINITY CHEMICAL CORPORATION, White Plains, N. Y. Filed Mar. 9, 1922.

Trinex

Particular description of goods.—Preparation for Removing Paint, Varnish, Shellac, etc., from Floors, Woodwork, etc., for Cleaning Brushes, and Also for Removing Wall Paper.
Claims use since Jan. 1, 1921.

Ser. No. 160,462. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

FOUND AT LAST

Particular description of goods.—Gray-Hair Restorer.
Claims use since 1899.

Ser. No. 160,466. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

ALLURE

Particular description of goods.—Perfumes, Toilet Waters, Sachets.
Claims use since 1917.

Ser. No. 160,585. (CLASS 2. RECEPTACLES.) LEONARD R. CARLEY, Watertown, Conn. Filed Mar. 13, 1922.

KARLODE

Particular description of goods.—Cans, Containers, and Cartons.
Claims use since about Dec. 20, 1921.

Ser. No. 160,635. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE REMILLER CO., New York, N. Y. Filed Mar. 13, 1922.

Pum-K'n Rouge

No claim is made to exclusive use of the word "Rouge" apart from the mark as shown in the drawing.
Particular description of goods.—Face Rouge.
Claims use since Feb. 1, 1922.

Ser. No. 160,606. (CLASS 10. FERTILIZERS.) FRED DENKEWALTER, doing business as Plant Marvel Laboratories, Columbus, Ohio. Filed Mar. 15, 1922.

PLANT MARVEL
ACTS LIKE MAGIC ON ALL PLANTS

No claim is made to the words "Acts Like Magic on All Plants."
Particular description of goods.—Plant Food and Plant Tonic.
Claims use since about Mar. 4, 1922.

Ser. No. 160,702. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE J. GROHS, Torrington, Conn. Filed Mar. 15, 1922.

OLI-ROS-OL

Particular description of goods.—Healing Salve for Abrasions, Ulcers, Cuts, Bruises, Bites, Burns, Scalds, Blisters, Boils, Sunburn, and Other Flesh Wounds or Sores of Any Description, Erysipelas, Eczema, and Other Similar Skin Diseases.
Claims use since Feb. 25, 1922.

Ser. No. 160,722. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELLEN REILLY, Spokane, Wash. Filed Mar. 15, 1922.



Particular description of goods.—Medicine for Nervous Diseases, Epilepsy, and Sleeplessness.
Claims use since Mar. 1, 1921.

Ser. No. 160,799. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ASAHEL H. DILLON, doing business as General Oil Producing Company, Youngstown, Ohio. Filed Mar. 17, 1922.

DO-IT

Particular description of goods.—Nonabrasive Polish for Cleaning and Polishing the Varnished, Lacquered, and Painted Surfaces of Automobiles, Furniture, Etc.
Claims use since Jan. 1, 1922.

Ser. No. 160,846. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMERICAN WALL PAPER CO., Chicago, Ill., and Pittsburgh, Pa. Filed Mar. 18, 1922.

AMCO

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints; Putty, Linseed Oil, Turpentine, Paint Pigments, and Paint Colors.
Claims use since Mar. 1, 1920.

Ser. No. 160,858. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BAZILLE & PARTRIDGE, INC., St. Paul, Minn. Filed Mar. 18, 1922.

BazPar

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints; Putty, Linseed Oil, Turpentine, Paint Pigments, and Paint Colors.
Claims use since Mar. 1, 1920.

Ser. No. 160,927. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WILL J. CAMERON, Chicago, Ill. Filed Mar. 20, 1922.

VITALITESTER

Trade-mark consists of the word "Vitalitester."
Particular description of goods.—Devices and Apparatus for Ascertaining the Physical Conditions of the Nerves.
Claims use since Oct. 1, 1921.

Ser. No. 160,932. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DE MILO PERFUME CO., INC., New York, N. Y. Filed Mar. 20, 1922.

MILO 400

Particular description of goods.—Cold Cream, Almond Cream, Lemon Cream, Cocoa-Butter Cream, Hair Tonic, Hair Dressing, Face Powder, Talcum Powder, Rouge, Cocoa Cream, Menthol Cream, Witch-Hazel Cream, Massage Cream, Beautifier or Cream to be Used as a Massage Cream After Shaving, Brilliantine, Lilac Vegetal, Depilatory, Styptic Powder, Perfumes, Extracts for Handkerchiefs, Shampoos, and Stringents.
Claims use since 1908.

Ser. No. 160,950. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN W. KERR, doing business as Sin-O'Lor Chemical Company, Inc., Los Angeles, Calif. Filed Mar. 20, 1922.

SIN-O'LOR

Particular description of goods.—Disinfectants and Antiseptics.
Claims use since September, 1921.

Ser. No. 161,037. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DURAND CO., Boston, Mass. Filed Mar. 22, 1922.

Stuart

Trade-mark "Stuart." The trade-mark is in the handwriting of the vice president of the corporation.
Particular description of goods.—Candy.
Claims use since Dec. 14, 1921.

Ser. No. 161,044. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FUERST & KRAEMER, LIMITED, New Orleans, La. Filed Mar. 22, 1922.

Evangeline

Particular description of goods.—Chocolates and Candies.
Claims use since 1911.

Ser. No. 161,112. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN LAWRENCE DEBENEDETTI, San Francisco, Calif. Filed Mar. 23, 1922.

FOG-KIST

Particular description of goods.—Fresh Artichokes.
Claims use since Aug. 23, 1921.

Ser. No. 161,113. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN LAWRENCE DEBENEDETTI, San Francisco, Calif. Filed Mar. 23, 1922.

MIST-MAID

Particular description of goods.—Fresh Artichokes.
Claims use since Aug. 23, 1921.

Ser. No. 161,115. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DREYFUS BROS., Tulsa, Okla. Filed Mar. 23, 1922.

5 BROTHERS BRAND

The word "Brand" does not form a part of the registration sought apart from the mark.
Particular description of goods.—Canned Vegetables—viz, Tomatoes, Hominy, Sauerkraut, Peas, Corn, and Spinach; Canned Fruits—viz, Cherries, Pineapple, Peaches, Plums, Pears, Blackberries, Apples, and Apricots.
Claims use since Apr. 11, 1921.

Ser. No. 161,126. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRECO CANNING CO., INC., San Jose, Calif. Filed Mar. 23, 1922.

PEP

Particular description of goods.—Tomato Sauce.
Claims use since Sept. 15, 1921.

Ser. No. 161,137. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCCARTHY BROS., San Francisco, Calif. Filed Mar. 23, 1922.

GLENTOR

Particular description of goods.—Tea.
Claims use since Jan. 1, 1900.

Ser. No. 161,156. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TOWER FISH COMPANY, Boston, Mass. Filed Mar. 28, 1922.

TOWER

Particular description of goods.—Dried, Smoked, and Pickled Fish.
Claims use since on or about Sept. 14, 1921.

Ser. No. 161,160. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIRDEN PACKING CO., South San Francisco, Calif. Filed Mar. 23, 1922.

CAMP FIRE

Particular description of goods.—Canned Fish—viz, Canned Salmon.
Claims use since October, 1912.

Ser. No. 161,162. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WINTHROP FRUIT CO., Yakima, Wash. Filed Mar. 23, 1922.

WYNCO BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in drawing.
Particular description of goods.—Fresh Apples and Pears.
Claims use since Aug. 1, 1921.

Ser. No. 161,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KOPP, FREIDEN AND COMPANY, Omaha, Nebr. Filed Mar. 24, 1922.

SNOWBALL

Particular description of goods.—Ice-Cream Confections.
Claims use since Mar. 14, 1922.

Ser. No. 161,474. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANUZIS AND YUKNIS CO., Chicago, Ill. Filed Mar. 30, 1922.



The words "Trade-Mark," "Manufactured by," and "Chicago, Ill." are hereby disclaimed. The picture appearing on drawing is fanciful.
Particular description of goods.—Hand Lotion.
Claims use since Mar. 27, 1922.

Ser. No. 161,533. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FAIRMONT CREAMERY CO., Omaha, Nebr. Filed Mar. 31, 1922.

Delicia

Particular description of goods.—Ice Cream.
Claims use since 1907.

Ser. No. 161,578. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOWARD REED, Marysville, Calif. Filed Mar. 31, 1922.

NEW ENGLAND ORCHARD

Particular description of goods.—Fresh Pears and Fresh Plums.
Claims use since 1901.

Ser. No. 161,602. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE VEGOLENE CO., Bellingham, Wash. Filed Mar. 31, 1922.

TULIP TABLE SYRUP

The words "Table Syrup" do not form a part of the registration sought apart from the mark as shown in drawing.
Particular description of goods.—Table Sirup.
Claims use since Dec. 13, 1921.

Ser. No. 161,631. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIVINGSTON COOPERATIVE SOCIETY, Livingston, Calif. Filed Apr. 1, 1922.

RISING SUN

Particular description of goods.—Fresh Deciduous Fruits and Grapes.
Claims use since 1916.

Ser. No. 161,693. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE MENDEL-DRUCKER COMPANY, Norwood, Ohio. Filed Apr. 3, 1922.

MENDELTRUNX

Particular description of goods.—Trunks.
Claims use since October, 1921.

Ser. No. 161,787. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS MAHNKEN, doing business as Amsterdam Candy Co., Brooklyn, N. Y. Filed Apr. 5, 1922.

WINDMILL

Particular description of goods.—Chocolate Taffy.
Claims use since Dec. 19, 1921.

Ser. No. 161,944. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) A. J. STEPHENS RUBBER CO., Kansas City, Mo. Filed Apr. 8, 1922.

Vacu-Grip

Particular description of goods.—Subcasings of Fabric, Rubber, and Gum for Tires.
Claims use since August, 1921.

Ser. No. 162,047. (CLASS 39. CLOTHING.) PHILLIPS PATENTS LIMITED, London, England. Filed Apr. 10, 1922.

MAGNA

Particular description of goods.—India-Rubber Tips and Pads for Heels of Boots and Shoes, All the Said Tips and Pads Being Sold Separately—That is to Say, Independently of Boots and Shoes Complete, and of Boot Heels and Shoe Heels Complete.
Claims use since Nov. 13, 1908.

Ser. No. 162,135. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) PENNSYLVANIA RANGE BOILER CO., Philadelphia, Pa. Filed Apr. 11, 1922.

PENNSYLVANIA RANGE BOILER CO. STANDARD

No claim is made apart from mark shown in the drawing to the words "Tenth St. Above Norris, Philadelphia," or to the word "Standard," or to the words "Guaranteed to 85 Pounds Maximum Working Pressure." The shading in drawing denotes color, the parts of the field within the inner circle above and below the central horizontal band being black, the band surrounding the inner circle being white with an inner and outer yellow border, and the lettering thereon being red, the central horizontal band being red with a yellow border, and the band surrounding the entire mark being black.
Particular description of goods.—Range Boilers.
Claims use since Mar. 1, 1922.

Ser. No. 162,181. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK A. KAUFFMAN, Reading, Pa. Filed Apr. 12, 1922.



BIG CHIEF

Particular description of goods.—Pharmaceutical Preparation—Namely, Cough Drops.
Claims use since Sept. 1, 1906.

Ser. No. 162,234. (CLASS 5. ADHESIVES.) FRANK L. MOLYNEUX, Painesville, Ohio. Filed Apr. 12, 1922.

SAN-O-LITE

Particular description of goods.—Cement for Holding Artificial Teeth Firmly in Place.
Claims use since Mar. 18, 1922.

Ser. No. 162,238. (CLASS 39. CLOTHING.) THE STANLEY W. BLUM COMPANY, New York, N. Y. Filed Apr. 13, 1922.

Bellwether



Particular description of goods.—Sweaters, Sweater Coats, and Bathing Suits.
Claims use since Aug. 1, 1919.

Ser. No. 162,239. (CLASS 39. CLOTHING.) BEERMAN & FRANK, INC., doing business as The Novia Blouse Co., New York, N. Y. Filed Apr. 13, 1922.

Novia

Particular description of goods.—Ladies' Handmade Blouses and Waists.
Claims use since November, 1920.

Ser. No. 162,276. (CLASS 39. CLOTHING.) WHEELER MANUFACTURING CO., Berkeley, Calif. Filed Apr. 13, 1922.

DIAMOND TOP



Trade-mark "Diamond Top."
Particular description of goods.—Sport Caps, Rooters' Caps, and College Hats Made of Felt or Flannel.
Claims use since April, 1920.

Ser. No. 162,287. (CLASS 39. CLOTHING.) CHENEY BROTHERS, South Manchester, Conn. Filed Apr. 14, 1922.

IR-RADIANTINE

Particular description of goods.—Cravats and Neckties.
Claims use since Apr. 12, 1922.

Ser. No. 162,288. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BARNEY J. DREYFUSS, doing business as Imperial Pharmaceutical Company, New York, N. Y. Filed Apr. 14, 1922.

MOGAR

Particular description of goods.—Intestinal Lubricant and Exerciser.
Claims use since Dec. 20, 1920.

Ser. No. 162,339. (CLASS 39. CLOTHING.) H. S. HALL & CO. INC., Jersey City, N. J. Filed Apr. 15, 1922.

DONTELLE

Particular description of goods.—Lace Gloves.
Claims use since Apr. 1, 1922.

Ser. No. 162,368. (CLASS 39. CLOTHING.) THE YORKE SHIRT COMPANY, Glens Falls and New York, N. Y. Filed Apr. 15, 1922.

MERCEROX

Particular description of goods.—Men's Outer Shirts.
Claims use since Feb. 1, 1922.

Ser. No. 162,490. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ERNEST W. HASBROUCK, Boston, Mass. Filed Apr. 18, 1922.

HASPRO

Particular description of goods.—Furniture Polish.
Claims use since Feb. 6, 1922.

Ser. No. 162,504. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PEP SAND COMPANY, Pittsburgh, Pa. Filed Apr. 18, 1922.



No claim is made to the word "Sand" apart from the mark shown.
Particular description of goods.—Medically-Treated Insoluble Sand for Use by Humans, Animals, and Fowl for Perfecting Digestion, Assimilation, and Elimination of Food.
Claims use since Jan. 3, 1921.

Ser. No. 162,565. (CLASS 10. FERTILIZERS.) PACIFIC BONE COAL & FERTILIZER CO., San Francisco, Calif. Filed Apr. 19, 1922.

Prosperina

Particular description of goods.—Fertilizers.
Claims use since Mar. 1, 1918.

Ser. No. 162,595. (CLASS 39. CLOTHING.) VANITY FAIR SILK MILLS, Reading, Pa. Filed Apr. 19, 1922.

BRASIVEST

Particular description of goods.—Clothing—viz, a Garment Composed of a Combination Brassière and Vest.
Claims use since Mar. 16, 1922.

Ser. No. 162,631. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KARAM SMITH CO., Fort Wayne, Ind. Filed Apr. 20, 1922.

ZIPPO

Particular description of goods.—Chemical Remover for Iron Rust, Mildew, Fruit and Medicine Stains.
Claims use since Nov. 1, 1921.

Ser. No. 162,634. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID D. KIRBY, doing business as The Peoria Chemical Co., Peoria, Ill. Filed Apr. 20, 1922.

PREVENTUM

Particular description of goods.—Medicinal Preparation for Venereal Diseases.
Claims use since about Apr. 1, 1921.

Ser. No. 162,645. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PLAX COMPANY, INC., doing business as The Clax Company, New York, N. Y. Filed Apr. 20, 1922.

CLAX

Particular description of goods.—Laxative Tablets.
Claims use since Mar. 27, 1922.

Ser. No. 162,670. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS DEUTSCH, doing business as The French American Pharmacal Co., New York, N. Y. Filed Apr. 21, 1922.



No claim being made to the exclusive use of the words "French Hair Remover" or "New York" apart from the mark as shown on the drawing.
Particular description of goods.—Depilatories.
Claims use since about Mar. 23, 1920.

Ser. No. 162,736. (CLASS 39. CLOTHING.) THE HABERDASHERS NOVELTY CO. INC., New York, N. Y. Filed Apr. 22, 1922.



Particular description of goods.—Hosiery.
Claims use since Oct. 5, 1921.

Ser. No. 162,739. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB P. HAGEN, doing business as Hagen Drug Company, Cleveland, Ohio. Filed Apr. 22, 1922.

Creo

Particular description of goods.—Cough Balsam or Remedy for Use in the Treatment of Coughs, Croup, Colds, Fever, Influenza, Catarrhal Coughs, or La Grippe, Pneumonia, Whooping Cough, Sore Throat, Bronchitis, and the Like.
Claims use since January, 1920.

Ser. No. 162,766. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARK CHEMICAL COMPANY, Detroit, Mich. Filed Apr. 22, 1922.

KWICK-KASE

Particular description of goods.—Metal-Hardening Compounds.
Claims use since Mar. 30, 1922.

Ser. No. 162,780. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THEODORE SELTZER, doing business as Dr. Bengue, West Hoboken, N. J. Filed Apr. 22, 1922.

Ben-Gay

Particular description of goods.—Remedy for Use in the Treatment of Rheumatism, Gout, Neuralgia.
Claims use since Apr. 7, 1922.

Ser. No. 162,800. (CLASS 39. CLOTHING.) CADET KNITTING CO., Philadelphia, Pa. Filed Apr. 24, 1922.

Around

Particular description of goods.—Knitted Sweaters.
Claims use since Jan. 1, 1922.

Ser. No. 162,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KON-STIP-E-O TABLET CO., Ulster, Pa. Filed Apr. 24, 1922.

KON-STIP-E-O

Particular description of goods.—Medicinal Preparation for the Treatment of Constipation, Prevention of Appendicitis, Liver, Kidney, Blood, and Stomach Diseases.
Claims use since July 15, 1921.

Ser. No. 162,854. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES F. SMILLIE & CO., New York, N. Y. Filed Apr. 24, 1922.

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S

Particular description of goods.—Carbonate of Soda, Caustic Soda, Soda Ash, Bichromate of Soda, Bichromate of Potash, Glycerin, Thorium Nitrate, Carbolic Acid, Bicarbonate Soda, Powdered Corn Starch for Chemical Uses, and Hematine Crystals.
Claims use since about 1916.

Ser. No. 162,900. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Apr. 25, 1922.

SOCONY

Particular description of goods.—Medicinal Oils for the Treatment of Constipation, Laundry Wax, Petrolatum, Disinfectants, and Dyes.
Claims use since Feb. 26, 1908.

Ser. No. 162,908. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TARRANT COMPANY, New York, N. Y. Filed Apr. 25, 1922.

CU-CO-BA "TARRANT"

Particular description of goods.—Medicine for Venereal Diseases.
Claims use since Mar. 30, 1911.

Ser. No. 162,925. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL A. GARRIS, Portland, Me. Filed Apr. 26, 1922.



Particular description of goods.—Insecticide Powder.
Claims use since June, 1919.

Ser. No. 163,719. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & WALLS, New York, N. Y. Filed May 11, 1922.

TURNWAL

Trade-mark "Turnwal."
Particular description of goods.—Silk, Cotton, and Wool Piece Goods and Combinations of the Same.
Claims use since May 4, 1922.

Ser. No. 163,804. (CLASS 37. PAPER AND STATIONERY.) LE BOEUF FOUNTAIN PEN COMPANY, INC., Springfield, Mass. Filed May 13, 1922.

UNBREAKABLE

No claim is made to the word "Unbreakable" apart from the mark as shown.
Particular description of goods.—Fountain Pens.
Claims use since Jan. 1, 1920.

Ser. No. 163,934. (CLASS 39. CLOTHING.) H. JACOB & SONS, INC., Brooklyn, N. Y. Filed May 16, 1922.

KUSHIN-FUT

Particular description of goods.—Felt Slippers.
Claims use since Apr. 1, 1922.

Ser. No. 164,237. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) R. E. DIETZ COMPANY, New York, N. Y. Filed May 22, 1922.

CHAMPION

Particular description of goods.—Oil-Burning Motor-Vehicle Lamps and the Burners and Oil Pots Thereof.
Claims use since during or about 1912.

Ser. No. 164,466. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) STACK HEATER COMPANY, Boston, Mass. Filed May 24, 1922. Under ten-year proviso.

STACK

Particular description of goods.—Direct Water Heaters, Indirect Water Heaters, Instantaneous Water Heaters, and Automatically-Controlled Water Heaters, All Heated by Gas, Oil, or Vapor.
Claims use since 1894.

Ser. No. 164,848. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILLIAM ZINSSER & COMPANY, INCORPORATED, New York, N. Y. Filed June 2, 1922.



No claim is made to the word "Brand" except as associated with the other features of the mark, the letter "Z" and word "Eye" being red, and target is black.
Particular description of goods.—Sponges, Cotton Waste, and Shellac Gums.
Claims use since about 1913.

Ser. No. 165,177. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE JAMES W. BRINE COMPANY, Boston, Mass. Filed June 8, 1922. Under ten-year proviso.

JAMES W. BRINE CO.

Particular description of goods.—Footballs, Football Bladders, Inflaters, Shoulder Pads, Shoulder and Elbow Pads, Knee Pads, Football Helmets, Thigh Guards, Nose Masks, Football Gloves, Referee Whistle, Football Timer, Umpires' and Field Judges' Horns, Tackling Dummy, Releasing Attachment, Steel Cross Rod, Megaphones, Bucking Strap, Soccer Footballs, Football Goal Nets, Basket Balls, Basket-Ball Bladders, Basket-Ball Carriers, Basket-Ball Pads, Basket-Ball Goals, Thumb Protectors, Vaulting Poles, Chamois Pushers, Skates, Hockey Sticks, Hockey Leg and Knee Guards, Goal-Tenders' Guards, Body Protector, Goal-Tenders' Gloves, Hockey Gloves, Hockey Puck, Skate Straps, Snowshoes, Flexible Flier Sleds and Racers, Toboggans, Skis, Ski Bindings, Ski Poles, Medicine Balls, Volley Balls, Volley-Ball Net and Standards, Handballs, Indian Clubs, Dumb-Bells, Spring Exerciser, School and Calisthenic Wands, Playground Balls, Baseballs, Bats, Bases, Quoits, Boxing Gloves, Striking Bags, Striking-Bag Gloves, Striking-Bag Swivels, Striking-Bag Bladders, Striking-Bag Platforms, Tennis Rackets, Racket Covers, Tennis Balls, Tennis Nets, Catchers' Mitts, Basemen's Mitts, Fielders' Gloves, Catchers' Masks, Standard Masks, Leg Guards, Abdomen Protectors, Bat Bags, Batting Nets, Sliding Pads, Hammers, Discs, Shot and Javelins to Throw, Crossbars for Jumping and Pole-Vaulting Standards, Running Corks, Tennis Markers, Tennis Posts and Reels, Tennis-Racket Presses.
Claims use since Jan. 1, 1895.

Ser. No. 165,178. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE JAMES W. BRINE COMPANY, Boston, Mass. Filed June 8, 1922. Under ten-year proviso.

JAMES W. BRINE Co.

Particular description of goods.—Footballs, Football Bladders, Inflaters, Shoulder Pads, Shoulder and Elbow Pads, Knee Pads, Football Helmets, Thigh Guards, Nose Masks, Football Gloves, Referee Whistle, Football Timer, Umpires' and Field Judges' Horns, Tackling Dummy, Releasing Attachment, Steel Cross Rod, Megaphones, Bucking Strap, Soccer Footballs, Football Goal Nets, Basket Balls, Basket-Ball Bladders, Basket-Ball Carriers, Basket-Ball Pads, Basket-Ball Goals, Thumb Protectors, Vaulting Poles, Chamois Pushers, Skates, Hockey Sticks, Hockey Leg and Knee Guards, Goal-Tender Guards, Body Protector, Goal-Tenders' Gloves, Hockey Gloves, Hockey Puck, Skate Straps, Shoe and Skate Bag, Snowshoes, Flexible Flier Sleds and Racers, Toboggans, Skis, Ski Bindings, Ski Poles, Medicine Balls, Volley Balls, Volley-Ball Net and Standards, Handballs, Indian Clubs, Dumb-Bells, Spring Exerciser, School and Calisthenic Wands, Playground Balls, Baseballs, Bats, Bases, Quoits, Boxing Gloves, Striking Bags, Striking-Bag Gloves, Striking-Bag

Swivels, Striking-Bag Bladders, Striking-Bag Platforms, Tennis Rackets, Racket Covers, Tennis Balls, Tennis Nets, Catchers' Mitts, Basemen's Mitts, Fielders' Gloves, Catchers' Masks, Standard Masks, Leg Guards, Abdomen Protectors, Bat Bags, Batting Nets, Sliding Pads, Hammers, Discs, Shot and Javelins to Throw, Crossbars for Jumping and Pole-Vaulting Standards, Running Corks, Tennis Markers, Tennis Posts and Reels, Tennis-Racket Presses.

Claims use since Jan. 1, 1895.

Ser. No. 165,383. (CLASS 39. CLOTHING.) THE JAMES SHOE MFG. CO., Milwaukee, Wis. Filed June 12, 1922.



No claim is made to the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Shoes Made Wholly or in Part of Leather.

Claims use since Nov. 1, 1921.

Ser. No. 165,927. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 23, 1922.

MEDINAH

Particular description of goods.—Wilton Rugs.

Claims use since Sept. 8, 1917.

Ser. No. 165,935. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 23, 1922.



Particular description of goods.—Bedspreads and Pillow Shams.

Claims use since 1909.

Ser. No. 165,975. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed June 23, 1922.

WECO

Particular description of goods.—Handkerchiefs.

Claims use since Feb. 4, 1922.

Ser. No. 166,446. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN V. FARWELL COMPANY, Chicago, Ill. Filed July 3, 1922.

Inter-Alp

Trade-mark "Inter-Alp."

Particular description of goods.—Handkerchiefs.

Claims use since June 14, 1922.

Ser. No. 166,698. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE MARS GRAND RUG CO., Pawtucket, R. I. Filed July 10, 1922.

Au-Twill

Particular description of goods.—Rugs, Carpets, and Other Textile Floor Coverings.

Claims use since May 19, 1922.

Ser. No. 166,743. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE LAMSON & SESSIONS COMPANY, Cleveland, Ohio. Filed July 11, 1922.

BULL DOG

Particular description of goods.—Wire-Rope Clips.

Claims use since early part of 1903.

Ser. No. 166,785. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed July 12, 1922.

DUO-TONE

Particular description of goods.—Clothes Brushes, Hairbrushes, Toothbrushes, Shoe Brushes, Nail Brushes, and Hat Brushes.

Claims use since Nov. 20, 1920.

Ser. No. 166,918. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WEIL-RANSOM CO., Chicago, Ill. Filed July 14, 1922.

STUBBY

Particular description of goods.—Wool Dusters.

Claims use since Dec. 1, 1921.

Ser. No. 166,955. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PERLMANN, SCHAL & STERN, New York, N. Y. Filed July 15, 1922.

Leonto

Particular description of goods.—Doilies.

Claims use since Apr. 1, 1922.

Ser. No. 167,080. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOCHSCHILD KOHN & CO., Baltimore, Md. Filed July 19, 1922.

PATRICIA

Particular description of goods.—Hair Nets.

Claims use since June 1, 1921.

Ser. No. 167,126. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed July 20, 1922.

AUDREY

Particular description of goods.—Hair Nets.

Claims use since June 24, 1922.

Ser. No. 167,205. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SKIDNER & HITZIGRATH, INC., New York, N. Y. Filed July 21, 1922.

Radio

Particular description of goods.—Ladies' Hair Nets Composed of Human Hair.

Claims use since Jan. 2, 1922.

Ser. No. 167,206. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATHAN SELIGMAN, doing business as N. Seligman Company, New York, N. Y. Filed July 21, 1922.

MURAL

The lining on drawing is for shading and does not indicate color.

Particular description of goods.—Hair Nets.

Claims use since July 1, 1922.

Ser. No. 167,231. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed July 22, 1922.

Beadcrepe

Particular description of goods.—Silk Piece Goods.

Claims use since June 2, 1922.

Ser. No. 167,232. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed July 22, 1922.

Beadweve

Particular description of goods.—Silk Piece Goods.

Claims use since June 2, 1922.

Ser. No. 167,233. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed July 22, 1922.

Pearlweve

Particular description of goods.—Silk Piece Goods.

Claims use since June 2, 1922.

Ser. No. 167,234. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed July 22, 1922.

Berriweve

Particular description of goods.—Silk Piece Goods.

Claims use since June 2, 1922.

Ser. No. 167,235. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed July 22, 1922.

Pearlseed

Particular description of goods.—Silk Piece Goods.
Claims use since June 2, 1922.

Ser. No. 167,236. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed July 22, 1922.

Granulette

Particular description of goods.—Silk Piece Goods.
Claims use since June 2, 1922.

Ser. No. 167,366. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE SAN FRANCISCO BREWERIES, LTD., San Francisco, Calif. Filed July 25, 1922. Under ten-year proviso.

Wieland's

Particular description of goods—Nonalcoholic, Malt-less Soft Drinks.
Claims use since 1889.

Ser. No. 167,419. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) PRIMALT PRODUCTS CO., Chicago, Ill. Filed July 26, 1922.

MALTO-SUCRO

Particular description of goods.—Malt Sirup.
Claims use since June 25, 1922.

Ser. No. 167,476. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LINDEKE-WARNER & SONS, INC., St. Paul, Minn. Filed July 27, 1922.

THE Orchid

Particular description of goods.—Hair Nets.
Claims use since July 26, 1921.

Ser. No. 167,477. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) MATTINGLY & MOORE DISTILLERY CO., Louisville, Ky. Filed July 27, 1922.

"Antique"

Particular description of goods.—Whisky.
Claims use since July 1, 1922.

Ser. No. 167,835. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS WALTHER MANUFACTURING COMPANY, Philadelphia, Pa. Filed Aug. 4, 1922.

CHALLAINE

Particular description of goods.—Wool Fabrics in the Piece.
Claims use since on or about July 19, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 12, 1922.

158,588. HAND TRUNKS, BAGS FOR TRAVELERS AND OTHERS, AND SUITCASES. ABRAMS TRUNK CO., Chicago, Ill.
Filed December 27, 1921. Serial No. 157,122. PUBLISHED MARCH 21, 1922.

158,589. MOTOR SPIRIT. THE ALCOHOL FUEL CORPORATION LIMITED, Westminster, London, England.
Filed December 21, 1921. Serial No. 156,978. PUBLISHED MARCH 14, 1922.

158,590. READY-MIXED PAINTS, COLORS IN OIL, WOOD STAINS, AND VARNISHES. THE ALEXANDER LUMBER COMPANY, Aurora, Ill.
Filed September 2, 1919. Serial No. 122,201. PUBLISHED DECEMBER 7, 1920.

158,591. TOY VEHICLES—NAMELY, WAGONS. ALLIED FACTORIES CORPORATION, Kansas City, Mo.
Filed March 21, 1922. Serial No. 160,989. PUBLISHED JUNE 13, 1922.

158,592. PICTURES AND CARTOONS PUBLISHED IN NEWSPAPERS AND MAGAZINES. WALTER R. ALLMAN, Cleveland, Ohio.
Filed April 10, 1922. Serial No. 161,952. PUBLISHED JULY 4, 1922.

158,593. ENAMEL IN THE NATURE OF A PAINT FOR WOOD AND METAL. AMERICAN ENAMEL COMPANY, Providence, R. I.
Filed August 7, 1919. Serial No. 121,330. PUBLISHED NOVEMBER 15, 1921.

158,594. SNAP FASTENERS. THE AMERICAN FASTENER COMPANY, Waterbury, Conn.
Filed March 3, 1922. Serial No. 160,107. PUBLISHED JULY 4, 1922.

158,595. GASOLINE AND FUEL OIL. AMERICAN OIL COMPANY, Peoria, Ill.
Filed September 29, 1919. Serial No. 123,233. PUBLISHED MARCH 23, 1920.

158,596. WORK SHIRTS. AMERICAN WHOLESALE CORPORATION (Baltimore Bargain House), Baltimore and Cumberland, Md.
Filed November 12, 1921. Serial No. 155,294. PUBLISHED JUNE 13, 1922.

158,597. HORSE, MULE, AND PONY SHOES AND CALKS. THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio.
Filed December 1, 1921. Serial No. 156,135. PUBLISHED MARCH 7, 1922.

158,598. PILE FABRICS IN THE PIECE. THE AMERTEX MILLS, INC., Bridgeport, Conn., and New York, N. Y.
Filed March 18, 1922. Serial No. 160,849. PUBLISHED JUNE 20, 1922.

158,599. HAIR NETS. FRED D. AMMIDOWN, doing business under the name and style of Fred. D. Ammidown & Co., Boston, Mass.
Filed March 2, 1922. Serial No. 160,042. PUBLISHED JUNE 20, 1922.

158,600. LEATHER BAGS, SUITCASES, POCKETBOOKS. ARTCRAFT LEATHER GOODS COMPANY, Boston, Mass.
Filed November 15, 1921. Serial No. 155,385. PUBLISHED MARCH 21, 1922.

158,601. CANNED PEAS AND CANNED CORN. AUNT NELLIE'S FARM KITCHEN, Hartford, Wis.
Filed October 17, 1921. Serial No. 154,174. PUBLISHED JUNE 6, 1922.

158,602. CIGARETTES AND SMOKING TOBACCO. BAILEY BROTHERS INC., Winston-Salem, N. C.
Filed April 26, 1922. Serial No. 162,913. PUBLISHED JUNE 27, 1922.

158,603. PUTTY. BAKER PAINT & VARNISH CO., Jersey City, N. J.
Filed January 13, 1922. Serial No. 157,876. PUBLISHED FEBRUARY 21, 1922.

158,604. APPARATUS FOR STERILIZING SURGICAL AND DENTAL INSTRUMENTS. BARNSTEAD STILL & STERILIZER CO., Boston, Mass.
Filed November 16, 1921. Serial No. 155,431. PUBLISHED JANUARY 10, 1922.

158,605. WHEAT FLOUR. BARRETT DENTON & LYNN CO., Dalton, Ga.
Filed July 30, 1921. Serial No. 151,142. PUBLISHED DECEMBER 13, 1921.

158,606. POLISH FOR AUTO BODIES AND FURNITURE AND HAVING INCIDENTAL PROPERTIES AS AUTO-TOP POLISH. COLUMBUS E. BASS, Boonville, Mo.
Filed February 16, 1920. Serial No. 128,422. PUBLISHED FEBRUARY 28, 1922.

158,607. CORSETS. GEORGE C. BATCHELLER & CO., New York, N. Y.
Filed October 26, 1921. Serial No. 154,583. PUBLISHED MAY 9, 1922.

158,608. STAIN VARNISH, VARNISHES, MIXED PAINTS, AND PAINT ENAMELS. THE R. A. BECKER VARNISH COMPANY, Cincinnati, Ohio.
Filed August 9, 1921. Serial No. 151,574. PUBLISHED FEBRUARY 28, 1922.

158,609. SUITCASE. CLAUD A. BEHRINGER, Anderson, Ind.
Filed December 3, 1921. Serial No. 156,210. PUBLISHED MARCH 7, 1922.

158,610. APPARATUS FOR PLAYING A GAME IN WHICH A BOARD OR TABLE AND MISSILES OR PLAYING PIECES ARE EMPLOYED. BELASCO MECHANICS CORPORATION, New York, N. Y.
Filed March 22, 1922. Serial No. 161,027. PUBLISHED JUNE 13, 1922.

158,611. SERIES OF CARTOONS. THE BELL SYNDICATE, INC., New York, N. Y.
Filed May 2, 1922. Serial No. 163,214. PUBLISHED JULY 4, 1922.

158,612. VARNISHES. BERRY BROTHERS, Detroit, Mich.
Filed January 16, 1922. Serial No. 157,979. PUBLISHED FEBRUARY 21, 1922.

158,613. PREPARATION FOR THE TREATMENT OF BLOOD DISEASES. ADOLFO BESSON, Los Lunas, N. Mex.
Filed September 20, 1921. Serial No. 153,123. PUBLISHED JUNE 6, 1922.

158,614. WOMEN'S SKIRT DRAWERS AND COMBINATIONS. DOROTHY BICKUM, New York, N. Y.
Filed March 25, 1922. Serial No. 161,237. PUBLISHED JUNE 6, 1922.

158,615. [WITHDRAWN.]

158,616. GASOLINE. THE BLACK HAWK OIL COMPANY, Cedar Falls, Iowa.
Filed January 20, 1922. Serial No. 158,174. PUBLISHED MAY 2, 1922.

158,617. CERTAIN NAMED WOVEN AND BRAIDED NARROW FABRICS. WM. B. BLISS JR. & CO., New York, N. Y., assignor to Wm. B. Bliss Jr. & Co., Incorporated, New York, N. Y., a Corporation of New York.
Filed December 31, 1921. Serial No. 157,353. PUBLISHED MAY 16, 1922.

158,618. SARDINES. BORDEAUX & NEW YORK TRADING CO., New York, N. Y.
Filed January 13, 1922. Serial No. 157,881. PUBLISHED JUNE 13, 1922.

158,619. PIECES OF CHEWING CANDY COMMONLY KNOWN AS KISSES. CHARLES H. BOYST, Greensboro, N. C.
Filed August 12, 1920. Serial No. 136,018. PUBLISHED JUNE 28, 1921.

158,620. READY-MIXED PAINTS, VARNISHES, STAINS, AND ENAMEL PAINTS. BRADLEY & VROOMAN COMPANY, Chicago, Ill.
Filed October 7, 1920. Serial No. 138,042. PUBLISHED MAY 31, 1921.

158,621. CHILDREN'S DRESSES, COATS, AND CAPS. HOWARD I. BRANSON & CO., Philadelphia, Pa.
Filed November 16, 1921. Serial No. 155,429. PUBLISHED JUNE 6, 1922.

158,622. OVERALLS; SHIRTS; UNDERSHIRTS; MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR; HOSIERY AND BELTS, AND ONE-PIECE WORK GARMENTS. F. BRODY & SONS CO., Des Moines, Iowa.
Filed July 30, 1921. Serial No. 151,138. PUBLISHED MAY 16, 1922.

158,623. GARMENT BAGS MADE OF PAPER. H. P. BROWNING, New York, N. Y.
Filed December 30, 1921. Serial No. 157,298. PUBLISHED MARCH 14, 1922.

158,624. MONTHLY PUBLICATION. THE BUNTING PUBLICATIONS, INC., Waukegan, Ill.
Filed February 27, 1922. Serial No. 159,842. PUBLISHED JUNE 20, 1922.

158,625. MONTHLY PUBLICATION. THE BUNTING PUBLICATIONS, INC., Waukegan, Ill.
Filed February 27, 1922. Serial No. 159,843. PUBLISHED JUNE 20, 1922.

158,626. MONTHLY PUBLICATION. THE BUNTING PUBLICATIONS, INC., Waukegan, Ill.
Filed February 27, 1922. Serial No. 159,844. PUBLISHED JUNE 20, 1922.

158,627. CANNED PEACHES. CALIFORNIA PACKING CORPORATION, San Francisco, Calif.
Filed November 5, 1921. Serial No. 155,045. PUBLISHED JUNE 13, 1922.

158,628. LUBRICATING OILS. GEORGE H. CAPEN, Canton Junction, Mass.
Filed November 15, 1921. Serial No. 155,391. PUBLISHED MARCH 7, 1922.

158,629. CARDBOARD TOY HOUSES AND AUTOMOBILE. CELLU-METAL CORPORATION, Rochester, N. Y.
Filed April 1, 1922. Serial No. 161,621. PUBLISHED JUNE 20, 1922.

158,630. PAINT REMOVERS AND VARNISH REMOVERS. CHALMERS CHEMICAL COMPANY, Newark, N. J.
Filed January 11, 1922. Serial No. 157,756. PUBLISHED MAY 2, 1922.

158,631. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,937. PUBLISHED JUNE 13, 1922.

158,632. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,939; PUBLISHED JUNE 13, 1922.

158,633. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,947. PUBLISHED JUNE 13, 1922.

158,634. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUP FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,948. PUBLISHED JUNE 13, 1922.

158,635. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,952. PUBLISHED JUNE 13, 1922.

158,636. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. CHERRY BLOSSOM MFG. CO., Newton, Iowa.
Filed February 28, 1922. Serial No. 159,953. PUBLISHED JUNE 13, 1922.

158,637. GLASS PRODUCTS—NAMELY, THIN BLOWN MEDICINE GLASSES, MEDICINE DROPPERS, NASAL DOUCHES, AND NIPPLE SHIELDS. THE CHICAGO GLASS PRODUCTS COMPANY, Chicago, Ill.
Filed December 14, 1921. Serial No. 156,680. PUBLISHED MAY 2, 1922.

158,638. NONALCOHOLIC BEVERAGE—NAMELY, A CARBONATED MALTLESS BEVERAGE SOLD AS A SOFT DRINK. THE CHOC-LO CO., INC., New York, N. Y.
Filed March 4, 1922. Serial No. 160,182. PUBLISHED JUNE 13, 1922.

158,639. OLIVE OIL. DURAN Y CIA., Barcelona, Spain.
Filed November 14, 1921. Serial No. 155,339. PUBLISHED JUNE 13, 1922.

158,640. COTTON PIECE GOODS. COHN HALL MARX CO., New York, N. Y.
Filed March 14, 1922. Serial No. 160,658. PUBLISHED JUNE 20, 1922.

158,641. LUBRICATING OIL. CONSUMERS SERVICE STATIONS, CONSOLIDATED, Rochester, N. Y.
Filed November 18, 1921. Serial No. 155,548. PUBLISHED MARCH 14, 1922.

158,642. SOCKS FOR BOOTS AND SHOES. JAMES THOMAS COOPER, London, England.
Filed October 14, 1921. Serial No. 154,077. PUBLISHED APRIL 25, 1922.

158,643. FIBER PAILS, DRUMS, AND CHEESE BOXES AND FIBER CONTAINERS FOR SHIPPING COMMODITIES. THE CONTAINER COMPANY, Toledo, Ohio.
Filed April 29, 1921. Serial No. 146,955. PUBLISHED MAY 2, 1922.

158,644. ICE-CREAM POWDER. THE CRANDALL PETTEE CO., New York, N. Y.
Filed August 17, 1920. Serial No. 136,185. PUBLISHED JUNE 13, 1922.

158,645. PROTECTIVE PAINT COATINGS. THE DAMPNEY COMPANY OF AMERICA, Boston, Mass.
Filed December 22, 1921. Serial No. 157,027. PUBLISHED MAY 2, 1922.

158,646. PROTECTIVE PAINT COATINGS. THE DAMPNEY COMPANY OF AMERICA, Boston, Mass.
Filed December 22, 1921. Serial No. 157,028. PUBLISHED MAY 2, 1922.

158,647. GOLF BALLS. THE DAYTON COMPANY, Minneapolis, Minn.
Filed May 4, 1922. Serial No. 163,329. PUBLISHED JUNE 13, 1922.

158,648. SHOE LACES. DIAMOND BRAIDING MILLS, Chicago Heights, Ill.
Filed March 23, 1922. Serial No. 161,114. PUBLISHED JULY 4, 1922.

158,649. GASOLINE, LUBRICATING OILS, AND LUBRICATING GREASES. DOME OIL COMPANY, Washington, D. C.
Filed January 28, 1922. Serial No. 158,564. PUBLISHED MARCH 14, 1922.

158,650. BROAD SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed December 21, 1921. Serial No. 156,987. PUBLISHED JUNE 27, 1922.

158,651. PRINTED BOOKS PUBLISHED IN SERIES. E. P. DUTTON & COMPANY, New York, N. Y.
Filed March 3, 1922. Serial No. 160,119. PUBLISHED JUNE 20, 1922.

158,652. PRINTED BOOKS PUBLISHED IN SERIES. E. P. DUTTON & CO., New York, N. Y.
Filed May 1, 1922. Serial No. 163,142. PUBLISHED JULY 4, 1922.

158,653. BOUNCING BALLS. THE EAGLE RUBBER CO., Ashland, Ohio, and New York, N. Y.
Filed May 3, 1922. Serial No. 163,262. PUBLISHED JUNE 13, 1922.

158,654. MONTHLY TRADE BULLETIN. ARTHUR A. EASTMAN, doing business as Eastman Advertising Service, South Bend, Ind.
Filed February 27, 1922. Serial No. 159,859. PUBLISHED JUNE 20, 1922.

158,655. TIN CANS AND CLOSURES FOR CANS. GEORGE D. ELLIS & SONS, INCORPORATED, Philadelphia, Pa.
Filed December 29, 1921. Serial No. 157,266. PUBLISHED MARCH 14, 1922.

158,656. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUP FOR MAKING THE SAME. WADE H. ELAM, Nashville, Tenn.
Filed May 6, 1922. Serial No. 163,439. PUBLISHED JUNE 27, 1922.

158,657. ELECTRIC HOT-AIR BATHS, ELECTRICAL MASSAGE DEVICE, AND ELECTRIC HOT-AIR DOUCHES. ELEKTRIZITÄTSGESELLSCHAFT SANITAS MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany.
Filed April 8, 1921. Serial No. 145,885. PUBLISHED MAY 2, 1922.

158,658. BURIAL CASES. EMBALMING BURIAL CASE COMPANY, Burlington, Iowa.
Filed December 7, 1921. Serial No. 156,361. PUBLISHED MAY 2, 1922.

158,659. HOSIERY. EMERY & BEERS COMPANY INC., New York, N. Y.
Filed November 18, 1921. Serial No. 155,552. PUBLISHED JUNE 6, 1922.

158,660. CANDY. THE EUCLID CANDY COMPANY, Cleveland, Ohio.
Filed October 24, 1921. Serial No. 154,492. PUBLISHED JUNE 6, 1922.

158,661. COFFEE, TEA, SPICES, VINEGAR, AND FLAVORING EXTRACTS FOR FOODS. DAVID G. EVANS COFFEE CO., St. Louis, Mo.
Filed January 27, 1920. Serial No. 127,038. PUBLISHED FEBRUARY 8, 1921.

158,662. MONTHLY PUBLICATION. WILFORD H. FAWCETT, Robbinsdale, Minn.
Filed February 25, 1922. Serial No. 159,792. PUBLISHED JUNE 20, 1922.

158,663. CASES AND SATCHELS FOR MUSICAL INSTRUMENTS, MADE IN WHOLE OR PART OF LEATHER OR IMITATION OF LEATHER. ALFRED L. FELSBERG & CO., Newark, N. J.
Filed December 22, 1921. Serial No. 157,030. PUBLISHED MARCH 21, 1922.

158,664. BUNGALOW APRONS, DRESSES, PETTICOATS, AND BAND APRONS, NIGHTGOWNS, AND BLOOMERS. ABRAHAM D. FINKEL, doing business as Sorg Manufacturing Company, Pittsburgh, Pa.
Filed October 21, 1921. Serial No. 154,404. PUBLISHED MAY 23, 1922.

158,665. BUNGALOW APRONS, DRESSES, PETTICOATS, AND BAND APRONS, NIGHTGOWNS, AND BLOOMERS. ABRAHAM D. FINKEL, doing business as Sorg Manufacturing Company, Pittsburgh, Pa.
Filed October 21, 1921. Serial No. 154,405. PUBLISHED MAY 23, 1922.

158,666. ELECTRIC TOASTER, AUTOMATIC REVERSIBLE TYPE; ELECTRIC AIR HEATER, AND ELECTRIC HAIR DRIER. THE FITZGERALD MFG. COMPANY, Torrington, Conn.
Filed November 21, 1921. Serial No. 155,674. PUBLISHED MAY 23, 1922.

158,667. VANITY CASES. ANDREW B. FLAGG, trading as Flagg & Mowry, North Attleboro, Mass.
Filed February 3, 1922. Serial No. 158,828. PUBLISHED MAY 2, 1922.

158,668. HAIR NETS. JOSEPH FLEISCHER, New York, N. Y.
Filed March 31, 1922. Serial No. 161,547. PUBLISHED JUNE 20, 1922.

158,669. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,421. PUBLISHED JUNE 20, 1922.

158,670. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,422. PUBLISHED JUNE 20, 1922.

158,671. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,423. PUBLISHED JUNE 20, 1922.

158,672. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,424. PUBLISHED JUNE 20, 1922.

158,673. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,425. PUBLISHED JUNE 27, 1922.

158,674. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,431. PUBLISHED JUNE 27, 1922.

158,675. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,432. PUBLISHED JUNE 27, 1922.

158,676. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,433. PUBLISHED JUNE 20, 1922.

158,677. MEN'S AND YOUNG MEN'S CLOTHING—NAMELY, OVERCOATS, TROUSERS, COATS. M. FRANK SONS & COMPANY, INC., New York, N. Y.
Filed September 20, 1921. Serial No. 153,134. PUBLISHED MAY 9, 1922.

158,678. SACKS MADE OF TEXTILE MATERIAL, WOODEN CASES, BOXES, AND FRUIT AND VEGETABLE CRATES, PUNNETS, BASKETS, AND TIN CANS FOR CONTAINING ARTICLES OF FOOD. THE FRUIT AND PRODUCE EXCHANGE OF GREAT BRITAIN, LIMITED, London, England.
Filed November 23, 1920. Serial No. 140,026. PUBLISHED MAY 2, 1922.

158,679. ILLUMINATING AND LUBRICATING OILS AND GREASES. GALENA-SIGNAL OIL CO., Franklin, Pa.
Filed December 30, 1921. Serial No. 157,314. PUBLISHED MARCH 14, 1922.

158,680. WATERPROOF PAPER OUTER GARMENTS—NAMELY, HOODS, CAPES, AND CLOAKS—FOR MEN, WOMEN, AND CHILDREN. JOSEPH A. GAVIN, Brooklyn, N. Y.
Filed August 10, 1921. Serial No. 151,630. PUBLISHED APRIL 18, 1922.

158,681. TIRE-SEALING COMPOUND. ALBERT E. GAYLORD, New York, N. Y.
Filed November 23, 1921. Serial No. 155,814. PUBLISHED MARCH 14, 1922.

158,682. PARASOLS AND UMBRELLAS. SAMUEL C. GELBAND, New York, N. Y.
Filed March 2, 1922. Serial No. 160,058. PUBLISHED JUNE 6, 1922.

158,683. CIGARS. GENE VALL CIGAR CO., INC., New York, N. Y.
Filed March 10, 1922. Serial No. 160,494. PUBLISHED JUNE 27, 1922.

158,684. LUBRICATING OIL AND GREASE. THE GLOBE REFINING COMPANY, Cleveland, Ohio.
Filed February 2, 1922. Serial No. 158,767. PUBLISHED MAY 2, 1922.

158,685. CIGARS. GREAT LAKES CIGAR MFG. CO., Detroit, Mich.
Filed March 1, 1922. Serial No. 160,010. PUBLISHED JUNE 13, 1922.

158,686. ARTISTS' BRUSHES. MAX GRUMBACHER, New York, N. Y.
Filed March 22, 1922. Serial No. 161,080. PUBLISHED JUNE 13, 1922.

158,687. ARTISTS' BRUSHES. MAX GRUMBACHER, New York, N. Y.
Filed March 22, 1922. Serial No. 161,081. PUBLISHED JUNE 13, 1922.

158,688. ARTISTS' BRUSHES. MAX GRUMBACHER, New York, N. Y.
Filed March 22, 1922. Serial No. 161,083. PUBLISHED JUNE 13, 1922.

158,689. ARTISTS' BRUSHES. MAX GRUMBACHER, New York, N. Y.
Filed March 22, 1922. Serial No. 161,087. PUBLISHED JUNE 13, 1922.

158,690. ARTISTS' BRUSHES. MAX GRUMBACHER, New York, N. Y.
Filed March 22, 1922. Serial No. 161,088. PUBLISHED JUNE 13, 1922.

158,691. ARTISTS' BRUSHES. MAX GRUMBACHER, New York, N. Y.
Filed March 22, 1922. Serial No. 161,091. PUBLISHED JUNE 13, 1922.

158,692. ARTISTS' BRUSHES. MAX GRUMBACHER, New York, N. Y.
Filed March 22, 1922. Serial No. 161,092. PUBLISHED JUNE 13, 1922.

158,693. ARTISTS' BRUSHES. MAX GRUMBACHER, New York, N. Y.
Filed March 22, 1922. Serial No. 161,093. PUBLISHED JUNE 13, 1922.

158,694. ARTISTS' BRUSHES. MAX GRUMBACHER, New York, N. Y.
Filed March 22, 1922. Serial No. 161,094. PUBLISHED JUNE 13, 1922.

158,695. PREPARED COFFEE EXTRACTS. ERNEST HAASE, doing business as The Bunny Coffee Company, Brooklyn, N. Y.
Filed June 8, 1921. Serial No. 148,839. PUBLISHED JUNE 6, 1922.

158,696. CANDLES AND ILLUMINATING, HEATING, AND LUBRICATING OILS. HADDOCK PARKER & CO., Liverpool, England.
Filed November 29, 1920. Serial No. 140,385. PUBLISHED MAY 2, 1922.

158,697. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUP FOR MAKING THE SAME. NATHANIEL L. HALL, Norfolk, Va.
Filed April 8, 1922. Serial No. 161,921. PUBLISHED JUNE 13, 1922.

158,698. ALMOND PASTE. THE HARTMANN FOOD PRODUCT CO. INC., New York, N. Y.
Filed July 8, 1921. Serial No. 150,146. PUBLISHED JUNE 6, 1922.

158,699. CERTAIN NAMED COTTON FABRICS IN PIECES. HEBERLEIN & CO. A. G., Wattwil and Rietwies, Switzerland.
Filed January 13, 1921. Serial No. 142,213. PUBLISHED JUNE 13, 1922.

158,700. MISSES' OUTER SKIRTS. FREDERICK HERMAN, doing business as Fred Herman Mfg. Co., Seattle, Wash.
Filed October 18, 1921. Serial No. 154,270. PUBLISHED JUNE 6, 1922.

158,701. BASEBALL BATS. HILTON COLLINS CO. INCORPORATED, Louisville, Ky.
Filed March 31, 1922. Serial No. 161,551. PUBLISHED JUNE 13, 1922.

158,702. BASEBALL BATS. HILTON COLLINS CO. INCORPORATED, Louisville, Ky.
Filed March 31, 1922. Serial No. 161,552. PUBLISHED JUNE 13, 1922.

158,703. CERTAIN OUTING AND SPORTING APPAREL—NAMELY, COATS, SUITS, BLOUSES, KNICKERS, BLOOMERS, AND SKIRTS—FOR GIRLS AND WOMEN. HIRSHFIELD SKIRT CO., St. Louis, Mo.
Filed December 27, 1921. Serial No. 157,151. PUBLISHED JUNE 13, 1922.

158,704. TOBACCO SMOKING PIPES. HIRSCHL & BENDHEIM, Washington, Mo.
Filed February 14, 1922. Serial No. 159,312. PUBLISHED JUNE 13, 1922.

158,705. MARMALADE. J. & J. V. HOEGEN & COMPANY, New York, N. Y.
Filed December 13, 1921. Serial No. 156,628. PUBLISHED JUNE 13, 1922.

158,706. GRAPE JUICE. J. HUNGERFORD SMITH GRAPE JUICE CO., doing business as Michigan Grape Products Co., Lawton, Mich.
Filed April 22, 1922. Serial No. 162,772. PUBLISHED JUNE 13, 1922.

158,707. STEEL IN BLOCKS AND IN BARS, AND FORGINGS FOR ALL KINDS OF MACHINES, ARTISANS' TOOLS, CUTTING TOOLS, AND SPRINGS. POLDINA HUT, továrna na kelímkovou ocel (Crucible Steel Works), also trading as Poldihütte Tiegelgusszstahlfabrik, Prague and Kladno, Czechoslovakia, assignor to the Firm Poldi Steel Corporation of America, New York, N. Y.
Filed July 13, 1921. Serial No. 150,329. PUBLISHED MAY 16, 1922.

158,708. COFFEE, SUGAR, TEA, CHOCOLATE, COCOA, BOUILLON, BROTH, SOUP, MAYONNAISE, AND SALAD DRESSING. THE ICY-HOT BOTTLE COMPANY, Cincinnati, Ohio.
Filed April 28, 1921. Serial No. 146,912. PUBLISHED AUGUST 9, 1921.

158,709. DRY, PASTE, AND READY-MIXED PAINTS INDUSTRIAL PAINT COMPANY, Leetsdale Borough and Fair Oaks Borough, Pa.
Filed February 7, 1922. Serial No. 158,981. PUBLISHED MAY 9, 1922.

158,710. CANDY. T. C. JUNGELS, doing business as Jungels Candy Company, Joliet, Ill.
Filed December 9, 1921. Serial No. 156,493. PUBLISHED JUNE 13, 1922.

158,711. HAND SLEDS. THE KALAMAZOO SLED COMPANY, Kalamazoo, Mich.
Filed April 24, 1922. Serial No. 162,823. PUBLISHED JUNE 13, 1922.

158,712. KITCHENETTE DRESSES, HOUSE DRESSES, AND APRONS. KAUFMAN MANUFACTURING CO., Tacoma, Wash., assignor to Gaiety Garment Company, Los Angeles, Calif., a Corporation of Washington.
Filed December 13, 1921. Serial No. 156,641. PUBLISHED JUNE 6, 1922.

158,713. STOCKINGS. JULIUS KAYSER & CO., New York, N. Y.
Filed November 16, 1921. Serial No. 155,439. PUBLISHED MAY 23, 1922.

158,714. STOCKINGS. JULIUS KAYSER & CO., New York, N. Y.
Filed October 25, 1921. Serial No. 154,563. PUBLISHED JUNE 13, 1922.

158,715. CARBON PAPER. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y.
Filed September 24, 1921. Serial No. 153,294. PUBLISHED MAY 16, 1922.

158,716. CARBON PAPER. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y.
Filed September 24, 1921. Serial No. 153,295. PUBLISHED MAY 9, 1922.

158,717. CARBON PAPER. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y.
Filed September 24, 1921. Serial No. 153,298. PUBLISHED MAY 9, 1922.

158,718. CARBON PAPER AND TYPEWRITER RIBBONS. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y.
Filed September 24, 1921. Serial No. 153,301. PUBLISHED MAY 9, 1922.

158,719. CARBON PAPER. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y.
Filed September 24, 1921. Serial No. 153,304. PUBLISHED MAY 9, 1922.

158,720. COFFEE. KLATTE COFFEE COMPANY, Terre Haute, Ind.
Filed July 18, 1921. Serial No. 150,540. PUBLISHED JUNE 6, 1922.

158,721. A PASTE CLEANSER FOR CARPETS, RUGS, AND OTHER FABRICS. THE KLENZAL CO., INC., Washington, D. C.
Filed March 24, 1920. Serial No. 130,143. PUBLISHED AUGUST 23, 1921.

158,722. INFANTS', CHILDREN'S, WOMEN'S, AND MEN'S HOSIERY. KRUEGER-TOBIN CO., INC., New York, N. Y.
Filed October 18, 1921. Serial No. 154,276. PUBLISHED APRIL 25, 1922.

158,723. INFANTS' COATS. MADELEINE KUSTER, Ossining, N. Y.
Filed November 19, 1921. Serial No. 155,620. PUBLISHED JUNE 6, 1922.

158,724. MEN'S LEATHER SHOES. THE K-W SHOE Co., Chicago, Ill.
Filed January 14, 1922. Serial No. 157,926. PUBLISHED MAY 23, 1922.

158,725. FANCY LINENS. L. S. E. Co. INC., Brooklyn, N. Y.
Filed February 10, 1922. Serial No. 159,158. PUBLISHED JUNE 6, 1922.

158,726. CLOTH DOLLS AND DOLL DRESSES. FRANK W. LANNING, doing business as Harvard Garment Company, Harvard, Ill.
Filed May 5, 1922. Serial No. 163,405. PUBLISHED JUNE 13, 1922.

158,727. GLUE AND GELATINE. LA SOCIETE DES PRODUITS CHIMIQUES COIGNET, Paris, France.
Filed December 30, 1921. Serial No. 157,322. PUBLISHED MAY 2, 1922.

158,728. GLUE AND GELATINE. LA SOCIETE DES PRODUITS CHIMIQUES COIGNET, Paris, France.
Filed December 30, 1921. Serial No. 157,324. PUBLISHED MARCH 21, 1922.

158,729. GLUE. LA SOCIETE DES PRODUITS CHIMIQUES COIGNET, Paris, France.
Filed December 30, 1921. Serial No. 157,325. PUBLISHED MARCH 21, 1922.

158,730. CHILDREN'S SHOES MADE OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF MATERIALS. F. LEVY SHOE CO., St. Louis, Mo.
Filed January 23, 1922. Serial No. 158,318. PUBLISHED JUNE 13, 1922.

158,731. LEATHER SHOES, FABRIC SHOES, RUBBER SHOES, AND COMBINATIONS OF THE SAME. LEVY & WEISS SHOE CO., New York, N. Y.
Filed January 6, 1922. Serial No. 157,577. PUBLISHED MAY 23, 1922.

158,732. BOOTS AND SHOES OF LEATHER AND LEATHER AND CLOTH. A. E. LITTLE CO., Lynn, Mass.
Filed December 27, 1921. Serial No. 157,154. PUBLISHED MAY 16, 1922.

158,733. OUTER CLOTHING FOR GIRLS, IN ONE, TWO, AND THREE PIECE GARMENTS. LITTLE GODDESS DRESS CO. INC., New York, N. Y.
Filed October 19, 1821. Serial No. 154,315. PUBLISHED JUNE 6, 1922.

158,734. BATHING SUITS. LONG ISLAND KNITTING MILLS CO., Brooklyn, N. Y.
Filed December 9, 1921. Serial No. 156,497. PUBLISHED JUNE 6, 1922.

158,735. FLUID FOR PATCHING FABRICS. H. W. LUCAS & CO., Cincinnati, Ohio.
Filed November 29, 1921. Serial No. 156,054. PUBLISHED MARCH 7, 1922.

158,736. FURNITURE POLISH. LUSTREX PRODUCTS CO., Oradell, N. J.
Filed January 19, 1922. Serial No. 158,133. PUBLISHED MAY 9, 1922.

158,737. COMPOUNDS FOR CLEANING HANDS. GILBERT C. LEE, Los Angeles, Calif.
Filed June 25, 1920. Serial No. 134,204. PUBLISHED OCTOBER 26, 1920.

158,738. HORN BUTTONS. LINDENHURST MANUFACTURING CO., Lindenhurst, N. Y.
Filed February 9, 1922. Serial No. 159,097. PUBLISHED JULY 4, 1922.

158,739. READY-MIXED PAINT AND VARNISH FOR AUTOMOBILES AND AUTOMOBILE BODIES. LYKOLAS AUTO RENUAL SYSTEM, INC., Indianapolis, Ind.
Filed October 31, 1921. Serial No. 154,801. PUBLISHED MARCH 14, 1922.

158,740. VARNISHES. MCCLOSKEY VARNISH CO., Philadelphia, Pa.
Filed December 1, 1921. Serial No. 156,165. PUBLISHED MAY 2, 1922.

158,741. LUBRICATING AND ILLUMINATING OILS AND GREASES AND GASOLINE. ANNA V. MCCONAGHY, Washington, D. C.
Filed January 5, 1922. Serial No. 157,529. PUBLISHED MAY 2, 1922.

158,742. MEN'S OUTER SHIRTS. McMULLEN-LEAVENS CO. INC., New York, N. Y.
Filed October 18, 1921. Serial No. 154,277. PUBLISHED APRIL 25, 1922.

158,743. READY-MIXED PAINTS. JOHN McQUADE, Brooklyn, N. Y.
Filed November 24, 1920. Serial No. 140,133. PUBLISHED JULY 12, 1921.

158,744. FLOWER FERTILIZER. EDWARD T. MACNAMARA, Gretna, La.
Filed November 30, 1921. Serial No. 156,094. PUBLISHED MARCH 7, 1922.

158,745. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed March 11, 1922. Serial No. 160,357. PUBLISHED JUNE 27, 1922.

158,746. READY-MIXED PAINTS, VARNISHES, DRIERS, PAINT PIGMENTS. MARINE DECKING & SUPPLY COMPANY, Philadelphia and Easton, Pa.
Filed December 30, 1921. Serial No. 157,328. PUBLISHED MAY 2, 1922.

158,747. COTTON AND COTTON-MIXED WASH DRESS PIECE GOODS. WALTON N. MOORE DRY GOODS CO., San Francisco, Calif.
Filed February 21, 1921. Serial No. 143,874. PUBLISHED JUNE 13, 1922.

158,748. SHOES OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC. MORSE & BURT CO. INC., Brooklyn, N. Y.
Filed December 14, 1921. Serial No. 156,699.

158,749. PHARMACEUTICAL PREPARATIONS FOR STIMULATING ACTION OF THE LIVER CELLS. JOHN F. MURRAY, New York, N. Y.
Filed July 28, 1921. Serial No. 151,055. PUBLISHED MAY 16, 1922.

158,750. FULL-FASHIONED AND SEAMLESS SILK HOSIERY. MUTUAL HOSIERY MILLS, INC., Philadelphia, Pa.
Filed November 23, 1921. Serial No. 155,824. PUBLISHED JUNE 6, 1922.

158,751. PURSES. THE ELWOOD MYERS CO., Springfield, Ohio.
Filed December 31, 1921. Serial No. 157,360. PUBLISHED MARCH 7, 1922.

158,752. SUSPENSORIES. JOSEPH E. NAREGAN, Los Angeles, Calif.
Filed December 19, 1921. Serial No. 156,918. PUBLISHED MAY 2, 1922.

158,753. OFFICIAL JOURNAL OF THIS ORGANIZATION. NATIONAL MARINE ENGINEERS' BENEFICIAL ASSOCIATION, Washington, D. C.
Filed November 7, 1921. Serial No. 155,111. PUBLISHED JUNE 20, 1922.

158,754. SHOES MADE OF LEATHER. NETTLETON SHOPS, INC., Syracuse, N. Y.
Filed February 21, 1922. Serial No. 159,664. PUBLISHED JUNE 13, 1922.

158,755. HAIR NETS. NEW ENGLAND SUPPLIES CORPORATION, Boston, Mass.
Filed February 21, 1922. Serial No. 159,663. PUBLISHED JUNE 27, 1922.

158,756. GAS-ENGINE CYLINDER OIL. NEW YORK LUBRICATING OIL COMPANY, New York, N. Y.
Filed January 20, 1922. Serial No. 158,192. PUBLISHED MARCH 14, 1922.

158,757. SAFETY PINS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed March 11, 1922. Serial No. 160,558. PUBLISHED JULY 4, 1922.

158,758. SAFETY PINS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed March 11, 1922. Serial No. 160,559. PUBLISHED JULY 4, 1922.

158,759. CANDY COMMONLY KNOWN AS PENNY GOODS. THE NICHOLS CANDY COMPANY, Indianapolis, Ind.
Filed August 22, 1921. Serial No. 152,031. PUBLISHED JUNE 6, 1922.

158,760. A POLISHING PREPARATION FOR FLOORS, FURNITURE, AND OTHER WOODWORK. NICHOLSONS (NEWCASTLE-ON-TYNE) LIMITED, Newcastle-on-Tyne, England.
Filed March 16, 1920. Serial No. 129,794. PUBLISHED FEBRUARY 21, 1922.

158,761. NONBREAKABLE BUTTONS FOR CLOTHING. NON-BREAKABLE BUTTON CORPORATION OF AMERICA, Milwaukee, Wis.
Filed November 30, 1921. Serial No. 156,106. PUBLISHED MAY 30, 1922.

158,762. POTATOES IN THEIR NATURAL STATE. O. K. STORY & COMPANY, Washburn, Me.
Filed November 22, 1921. Serial No. 155,779. PUBLISHED JUNE 13, 1922.

158,763. WHEAT FLOUR. OKLAHOMA CITY MILL & ELEVATOR CO., Oklahoma, Okla.
Filed September 19, 1921. Serial No. 153,109. PUBLISHED JUNE 13, 1922.

158,764. NONDRYING PAINT OF PASTE CONSISTENCY. CHARLES W. PAINE, Philadelphia, Pa.
Filed November 12, 1921. Serial No. 155,316. PUBLISHED FEBRUARY 28, 1922.

158,765. TEXTILE ARTICLES—NAMELY, HOSIERY. THE PARAMOUNT KNITTING COMPANY, Chicago, Ill.
Filed December 1, 1921. Serial No. 156,175. PUBLISHED JUNE 6, 1922.

158,766. CIGARS AND LITTLE CIGARS. RAPHAEL N. PARIS, York, Pa.
Filed May 18, 1922. Serial No. 164,068. PUBLISHED JUNE 27, 1922.

158,767. FULL-FASHIONED AND SEAMLESS SILK HOSIERY. PATERSON KNITTING MILLS, INC., Paterson and Ramsey, N. J.
Filed November 23, 1921. Serial No. 155,828. PUBLISHED JUNE 6, 1922.

158,768. SHOES WHICH ARE MADE OF LEATHER, RUBBER, AND FABRIC AND COMBINATIONS OF THE SAME. GEORGE E. PEIRCE, doing business as THOMAS F. PEIRCE & SON, Providence, R. I.
Filed February 8, 1922. Serial No. 159,053. PUBLISHED JUNE 13, 1922.

158,769. COTTON PIECE GOODS. PELZER MANUFACTURING COMPANY, Pelzer, S. C.
Filed February 10, 1922. Serial No. 159,178. PUBLISHED JUNE 27, 1922.

158,770. COTTON PIECE GOODS. PELZER MANUFACTURING COMPANY, Pelzer, S. C.
Filed February 11, 1922. Serial No. 159,219. PUBLISHED JUNE 6, 1922.

158,771. MEN'S WORK SHIRTS, BOYS' WORK SHIRTS, BOYS' BLOUSES AND PLAY SUITS. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y.
Filed December 17, 1921. Serial No. 156,858. PUBLISHED JUNE 6, 1922.

158,772. PAINT THINNER OR SUBSTITUTE FOR TURPENTINE. THE PIONEER MANUFACTURING COMPANY, Cleveland, Ohio.
Filed January 5, 1921. Serial No. 141,869. PUBLISHED FEBRUARY 21, 1922.

158,773. LIQUID FLOOR VARNISH COATING. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed January 12, 1922. Serial No. 157,847. PUBLISHED MARCH 21, 1922.

158,774. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed January 10, 1922. Serial No. 157,730. PUBLISHED MAY 16, 1922.

158,775. MONTHLY PUBLICATION. POPULAR RADIO, INC., New York, N. Y.
Filed March 21, 1922. Serial No. 161,012. PUBLISHED JUNE 20, 1922.

158,776. MONTHLY PUBLICATION. POSTER ADVERTISING ASSOCIATION, Chicago, Ill.
Filed May 4, 1922. Serial No. 163,352. PUBLISHED JULY 4, 1922.

158,777. A MALT EXTRACT FOR FOOD PURPOSES. PRIMALT PRODUCTS CO., Chicago, Ill.
Filed September 16, 1921. Serial No. 153,012. PUBLISHED JUNE 13, 1922.

158,778. PERIODICAL PUBLISHED MONTHLY. PURCHASING AGENTS ASSOCIATION OF WESTERN MASSACHUSETTS, Springfield, Mass.
Filed May 8, 1922. Serial No. 163,536. PUBLISHED JULY 4, 1922.

158,779. NONALCOHOLIC, NONCEREAL, MALTLESS, FRUIT-JUICE BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING SAME. PURE PRODUCTS SYRUP CORPORATION, New York, N. Y.
Filed May 6, 1922. Serial No. 163,467. PUBLISHED JUNE 27, 1922.

158,780. LEATHER BOOTS AND SHOES. HARRY O. QUICK, doing business as Quick Shoe Company, Brockton, Mass.
Filed December 14, 1921. Serial No. 156,713. PUBLISHED JUNE 6, 1922.

158,781. MAGAZINES PUBLISHED MONTHLY. RAMP BUILDINGS CORPORATION, New York, N. Y.
Filed February 17, 1922. Serial No. 159,481. PUBLISHED JUNE 20, 1922.

158,782. CERTAIN NAMED CORDAGE. JOHN RAUSCHENBERGER COMPANY, Milwaukee, Wis.
Filed March 14, 1921. Serial No. 144,742. PUBLISHED MARCH 14, 1922.

158,783. MONTHLY MAGAZINE. READERS' PUBLISHING CORPORATION, New York, N. Y.
Filed March 18, 1922. Serial No. 160,902. PUBLISHED JUNE 20, 1922.

158,784. LUBRICATING OILS, GASOLINE, AND CRUDE OIL. RED DOG OIL COMPANY, Pittsburgh, Pa.
Filed January 13, 1922. Serial No. 157,902. PUBLISHED MARCH 14, 1922.

158,785. SAFETY PINS. FRED REES, doing business as The Remo Manufacturing Co., Meriden, Conn.
Filed March 23, 1922. Serial No. 161,148. PUBLISHED JULY 4, 1922.

158,786. DOLLS. REES DAVIS TOY COMPANY, Chicago, Ill.
Filed April 22, 1922. Serial No. 162,768. PUBLISHED JUNE 13, 1922.

158,787. GRAPE JUICE. REID, MURDOCH & CO., Chicago, Ill.
Filed May 1, 1922. Serial No. 163,175. PUBLISHED JUNE 27, 1922.

158,788. WOMEN'S FROCKS AND DRESSES. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed December 12, 1921. Serial No. 156,600. PUBLISHED JUNE 6, 1922.

158,789. RACING GAMES. ROBSON & BOWEN, New York, N. Y.
Filed April 29, 1922. Serial No. 163,115. PUBLISHED JUNE 13, 1922.

158,790. ALIMENTARY PASTE PRODUCTS. RONZONI MACARONI COMPANY, INC., Long Island City, N. Y.
Filed December 7, 1921. Serial No. 156,415. PUBLISHED JUNE 13, 1922.

158,791. COTTON LININGS—VIZ. POCKETINGS, SILESIAS, SLEEVE LININGS, AND WIGANS. ADOLPH ROSENBERG & CO. INC., New York, N. Y.
Filed February 20, 1922. Serial No. 159,620. PUBLISHED JUNE 27, 1922.

158,792. GARMENT-STORAGE BAGS. THE ROSETH CORPORATION, Brooklyn, N. Y.
Filed November 21, 1921. Serial No. 155,708. PUBLISHED MARCH 7, 1922.

158,793. SHOES AND BOOTS OF LEATHER. BENJAMIN ROSS, Brooklyn, N. Y.
Filed November 14, 1921. Serial No. 155,366. PUBLISHED MAY 16, 1922.

158,794. A PARLOR TABLE GAME IN THE NATURE OF ROULETTE. ROUZETTE COMPANY, Cincinnati, Ohio.
Filed April 15, 1922. Serial No. 162,348. PUBLISHED JUNE 13, 1922.

158,795. WATERPROOF APRONS. RUBBERIZED SHEETING & SPECIALTY CO. INC., New York, N. Y.
Filed December 22, 1921. Serial No. 157,044. PUBLISHED JUNE 6, 1922.

158,796. SANITARY BELTS. RUBBERIZED SHEETING & SPECIALTY CO. INC., New York, N. Y.
Filed December 22, 1921. Serial No. 157,045. PUBLISHED MARCH 7, 1922.

158,797. BATISTE LINGERIE. ALEXANDER N. SAAB, New York, N. Y.
Filed December 17, 1921. Serial No. 156,863. PUBLISHED JUNE 6, 1922.

158,798. MEN'S AND BOYS' HATS, SUITS, AND OVERCOATS. SAKS & COMPANY, New York, N. Y.
Filed November 16, 1921. Serial No. 155,460. PUBLISHED JUNE 13, 1922.

158,799. DOLLS. HÉLÈNE SARDEAU, New York, N. Y.
Filed April 10, 1922. Serial No. 162,066. PUBLISHED JUNE 20, 1922.

158,800. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS. PAUL A. SAVI, Boston, Mass.
Filed January 20, 1922. Serial No. 158,196. PUBLISHED MAY 16, 1922.

158,801. POLISH FOR AUTOMOBILES, PIANOS, FURNITURE, SAFES, AND METAL CABINETS AND ALSO FOR VARNISH OR SHELLAC FINISHED FLOORS. CHARLES G. SCHMIDT, Philadelphia, Pa.
Filed January 3, 1922. Serial No. 157,452. PUBLISHED JUNE 27, 1922.

158,802. MALT-EXTRACT SIRUP FOR FOOD PURPOSES. SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y.
Filed April 21, 1921. Serial No. 146,505. PUBLISHED JUNE 13, 1922.

158,803. ALLOY FOR THE RESTORATION OF BROKEN-DOWN TEETH. J. C. SCHWARTZ, St. Louis, Mo.
Filed November 28, 1921. Serial No. 156,028. PUBLISHED FEBRUARY 28, 1922.

158,804. MATERIAL FOR MODELS FOR THE CONSTRUCTION OF DENTAL CROWNS AND BRIDGES. J. C. SCHWARTZ, St. Louis, Mo.
Filed November 28, 1921. Serial No. 156,030. PUBLISHED FEBRUARY 21, 1922.

158,805. THERAPEUTIC LAMPS. S. ROBERT SCHWARTZ & BRO., New York, N. Y.
Filed December 10, 1921. Serial No. 156,549. PUBLISHED MAY 2, 1922.

158,806. PROTECTIVE PAINTS. SEMET-SOLVAY CO., Solvay, N. Y.
Filed April 3, 1920. Serial No. 130,622. PUBLISHED APRIL 25, 1922.

158,807. HAIR RESTORER. JERLEENE B. SHARP, doing business as Admiral Co., Los Angeles, Calif.
Filed July 21, 1921. Serial No. 150,782. PUBLISHED MAY 30, 1922.

158,808. DRESS AND NEGLIGEE SHIRTS. MAX SHAW, Philadelphia, Pa.
Filed November 17, 1921. Serial No. 155,523. PUBLISHED JUNE 13, 1922.

158,809. LUBRICATING OILS. SHELL COMPANY OF CALIFORNIA, San Francisco, Calif.
Filed December 7, 1921. Serial No. 156,418. PUBLISHED MARCH 14, 1922.

158,810. WOOL, WOOL AND COTTON, AND WOOL AND SILK MIXTURE FABRICS IN THE PIECE. SHLIVEK BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed February 13, 1922. Serial No. 159,290. PUBLISHED JUNE 27, 1922.

158,811. CIGARS. SIDNEY CIGAR MANUFACTURING COMPANY, Sidney, Ohio.
Filed April 19, 1922. Serial No. 162,584. PUBLISHED JUNE 27, 1922.

158,812. SMOKING TOBACCO. JOHN SINCLAIR LTD., Newcastle-on-Tyne, England.
Filed April 11, 1922. Serial No. 162,142. PUBLISHED JUNE 13, 1922.

158,813. PUBLICATIONS ISSUED MONTHLY. SHEA SMITH & Co., Chicago, Ill.
Filed March 6, 1922. Serial No. 160,263. PUBLISHED JUNE 20, 1922.

158,814. LEATHER AND FABRIC BOOTS, SHOES, AND SLIPPERS, AND RUBBERS. SMITH SHOE CO. INC., Lynn, Mass.
Filed January 10, 1922. Serial No. 157,736. PUBLISHED JUNE 6, 1922.

158,815. LADIES' APRONS, HOUSE DRESSES, AND DRESSES OF COTTON MATERIAL FOR STREET AND OUTDOOR WEAR. J. A. AND R. E. SOLMES, St. Paul, Minn.
Filed December 2, 1921. Serial No. 156,202. PUBLISHED JUNE 6, 1922.

158,816. A NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK, AND EXTRACTS, FLAVORS, AND COLORS FOR MAKING THE SAME. THE SOUTHERN CALIFORNIA SUPPLY COMPANY, Los Angeles, Calif.
Filed March 2, 1922. Serial No. 160,086. PUBLISHED JUNE 13, 1922.

158,817. FURNITURE POLISH. S. S. STAFFORD, INC., New York, N. Y.
Filed February 2, 1922. Serial No. 158,802. PUBLISHED MARCH 21, 1922.

158,818. FURNITURE POLISH. S. S. STAFFORD, INC., New York, N. Y.
Filed February 2, 1922. Serial No. 158,803. PUBLISHED MARCH 21, 1922.

158,819. COMBS, PENDANTS, HAIR ORNAMENTS, AND BAG FRAMES OF CELLULOID. STANDARD COMB COMPANY, Leominster, Mass.
Filed August 28, 1920. Serial No. 136,609. PUBLISHED MAY 30, 1922.

158,820. CERTAIN NAMED FUEL OILS AND LUBRICATING OILS AND GREASES. STANDARD OIL COMPANY, San Francisco, Calif.
Filed November 15, 1920. Serial No. 139,682. PUBLISHED MAY 2, 1922.

158,821. FLOOR OILERS, YARN MOPS, DUST CLOTHS, ANR YARN DUST BRUSHES. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed April 25, 1922. Serial No. 162,902. PUBLISHED JUNE 27, 1922.

158,822. HAIRPINS. STA-RITE HAIR PIN CO., Shelbyville, Ill.
Filed March 7, 1922. Serial No. 160,303. PUBLISHED JULY 4, 1922.

158,823. WASHBOARDS. RAYNOR F. STARR, Chicago, Ill.
Filed August 24, 1921. Serial No. 152,142. PUBLISHED JUNE 27, 1922.

158,824. CANDY. ELBERTA REED STEEG, Kansas City, Mo.
Filed June 4, 1920. Serial No. 133,285. PUBLISHED AUGUST 31, 1920.

158,825. WOVEN, KNITTED, NETTED, AND TEXTILE FABRICS IN THE PIECE, COMPRISED IN WHOLE OR IN PART OF SILK. A. STERZELBACH & SONS Co., New York, N. Y.
Filed February 9, 1922. Serial No. 159,109. PUBLISHED JUNE 27, 1922.

158,826. PIECE GOODS—NAMELY, SILK, WOOLEN, AND COTTON AND COMBINATIONS OF THE SAME. MAX STRAUSS, doing business as Strauss & Co., New York, N. Y.
Filed March 28, 1922. Serial No. 161,392. PUBLISHED JUNE 27, 1922.

158,827. LADIES' HATS. STRONGE AND WARNER COMPANY, St. Paul, Minn.
Filed December 21, 1921. Serial No. 157,009. PUBLISHED JUNE 6, 1922.

158,828. DRY PAINTS. SUN CHEMICAL & COLOR COMPANY, Wilmington, Del., and Harrison, N. J.
Filed November 30, 1921. Serial No. 156,112. PUBLISHED MAY 2, 1922.

158,829. FINGER-NAIL BUFFERS. CHAS. T. SUNDMACHER, Brooklyn, N. Y.
Filed December 9, 1921. Serial No. 156,507. PUBLISHED MAY 2, 1922.

158,830. MEN'S, WOMEN'S, AND CHILDREN'S UNION SUITS, COMBINATION SUITS, UNDERSHIRTS, AND UNDERDRAWERS MADE OF BOTH WOVEN AND KNITTED FABRIC. THE SUPERIOR UNDERWEAR COMPANY, Piqua, Ohio.
Filed December 28, 1921. Serial No. 157,240. PUBLISHED JUNE 13, 1922.

158,831. POLISH FOR FURNITURE, AUTOMOBILES, AND PIANOS. SUPER POLISH CO., Detroit, Mich.
Filed December 4, 1920. Serial No. 140,618. PUBLISHED FEBRUARY 21, 1922.

158,832. HOSIERY FOR MEN, WOMEN, AND CHILDREN. TAYLOR AND WATSON, INC., Dover, Del., and New York, N. Y.
Filed November 14, 1921. Serial No. 155,373. PUBLISHED JUNE 6, 1922.

158,833. SULPHUR INOCULATED WITH BACTERIA. TEXAS GULF SULPHUR COMPANY, New York, N. Y.
Filed December 24, 1921. Serial No. 157,115. PUBLISHED MARCH 7, 1922.

158,834. SULPHUR AND SULPHUR INOCULATED WITH BACTERIA. TEXAS GULF SULPHUR COMPANY, New York, N. Y.
Filed December 24, 1921. Serial No. 157,117. PUBLISHED MAY 16, 1922.

158,835. HAIR NETS. CHARLES K. THAU, New York, N. Y.
Filed March 11, 1921. Serial No. 144,649. PUBLISHED JUNE 6, 1922.

158,836. OLIVES, FRUIT JELLY, FRUIT JAM, APPLE BUTTER, FRUIT PRESERVES, PEANUT BUTTER, AND CHILI SAUCE. TISGOOD PRODUCTS, INC., St Louis, Mo.
Filed May 24, 1921. Serial No. 148,185. PUBLISHED MAY 30, 1922.

158,837. WOOL AND ARTIFICIAL-SILK PIECE GOODS AND COMBINATIONS OF THE SAME. TURNER & WALLS, New York, N. Y.
Filed February 16, 1922. Serial No. 159,437. PUBLISHED JUNE 13, 1922.

158,838. ROAD OILS. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed October 19, 1921. Serial No. 154,339. PUBLISHED MAY 2, 1922.

158,839. FLUSHING OILS. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed January 10, 1922. Serial No. 157,740. PUBLISHED MARCH 14, 1922.

158,840. EXTERMINATING FLUIDS FOR EXTERMINATING ROACHES AND BEDBUGS, AND DISINFECTANTS. UNCLE SAM CHEMICAL CO., New York, N. Y.
Filed July 19, 1921. Serial No. 150,643. PUBLISHED MAY 23, 1922.

158,841. CERTAIN NAMED BUTTONS, BUCKLES, GIRDLES, BEADS, AND SPANGLES. UNITED MANUFACTURING TRIMMING CO. INC., New York, N. Y.
Filed March 23, 1922. Serial No. 161,158. PUBLISHED JULY 4, 1922.

158,842. OVERALLS, OVERALL COATS, OVERALL TROUSERS, OVERALL SUITS, COVERALLS, AND WORK SHIRTS. THE UNITED STATES OVERALL MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed March 12, 1921. Serial No. 156,607. PUBLISHED JUNE 6, 1922.

158,843. PLAYING CARDS. THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio, assignors to Standard Playing Card Company, Chicago, Ill., a Corporation of New Jersey.
Filed May 25, 1922. Serial No. 164,526. PUBLISHED JULY 4, 1922.

158,844. ARTIFICIAL TEETH. UNIVERSAL DENTAL COMPANY, Philadelphia, Pa.
Filed December 23, 1921. Serial No. 157,087. PUBLISHED MARCH 7, 1922.

158,845. VARNISHES, VARNISH STAINS, PAINT ENAMELS, READY MIXED AND PASTE PAINTS. VALENTINE & COMPANY, New York, N. Y.
Filed January 30, 1922. Serial No. 158,658. PUBLISHED MAY 9, 1922.

158,846. PAPER BAGS. VICTORY BAG & PAPER CO., Marinette, Wis.
Filed November 28, 1921. Serial No. 156,036. PUBLISHED MARCH 7, 1922.

158,847. CORNSTARCH, FLAVORING EXTRACTS, GELATINE DESSERT, AND TAPIOCA. WABASH BAKING POWDER COMPANY, Wabash, Ind.
Filed November 8, 1921. Serial No. 155,202. PUBLISHED JUNE 13, 1922.

158,848. CANDIES. A. R. WALKER CANDY CORPORATION, Muskegon, Mich.
Filed November 9, 1921. Serial No. 155,246. PUBLISHED JUNE 13, 1922.

158,849. HAIR NETS. WALKER STETSON COMPANY, Boston, Mass.
Filed March 2, 1922. Serial No. 160,104. PUBLISHED JUNE 27, 1922.

158,850. CERTAIN NAMED NOTIONS. WALKER WEBBING CO., Providence, R. I.
Filed November 10, 1921. Serial No. 155,291. PUBLISHED JUNE 20, 1922.

158,851. CERTAIN NAMED NOTIONS. WALKER WEBBING CO., Providence, R. I.
Filed November 25, 1921. Serial No. 155,943. PUBLISHED JUNE 13, 1922.

158,852. CERTAIN NAMED NOTIONS. WALKER WEBBING CO., Providence, R. I.
Filed November 28, 1921. Serial No. 156,040. PUBLISHED JUNE 13, 1922.

158,853. CERTAIN NAMED NOTIONS. WALKER WEBBING CO., Providence, R. I.
Filed December 7, 1921. Serial No. 156,426. PUBLISHED JUNE 13, 1922.

158,854. MEN'S AND BOYS' HATS AND CAPS. JOSEPH WALL, doing business as The Jowall Cap Works, Boston, Mass.
Filed January 7, 1922. Serial No. 157,644. PUBLISHED JUNE 20, 1922.

158,855. WATERPROOF PAINT FOR COATING GLASS. JOHN WALSH, doing business as Shade-O Co., Beverly Farms, Mass.
Filed February 6, 1922. Serial No. 158,960. PUBLISHED MAY 9, 1922.

158,856. FIBER CABLE. WATERBURY COMPANY, Jersey City, N. J., and New York, N. Y.
Filed December 22, 1921. Serial No. 157,053. PUBLISHED MARCH 21, 1922.

158,857. LADIES' TRIMMED AND TAILORED HATS. SIG. WEISENBURGER & Co., New York, N. Y.
Filed December 24, 1921. Serial No. 157,120. PUBLISHED JUNE 6, 1922.

158,858. POWDER AND AMMUNITION CONTAINING THE SAME. WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill.
Filed February 17, 1921. Serial No. 143,728. PUBLISHED JUNE 6, 1922.

158,859. GRIPS, SUITCASES, SATCHELS, PORTFOLIOS, TRUNKS, AND POCKETBOOKS. WESTERN GRIP & TRUNK CO., Milwaukee, Wis.
Filed April 9, 1921. Serial No. 145,984. PUBLISHED MARCH 7, 1922.

158,860. GARTERS. RALPH M. WHITMAN, New Bedford, Mass.
Filed October 24, 1921. Serial No. 154,542. PUBLISHED MAY 9, 1922.

158,861. DRY, READY-MIXED, AND PASTE PAINTS AND FOR VARNISHES AND PUTTY. THE M. I. WILCOX COMPANY, Toledo, Ohio.
Filed December 27, 1921. Serial No. 157,197. PUBLISHED MAY 2, 1922.

158,862. DRY COLORS AND FILLERS. C. K. WILLIAMS & Co., Easton, Pa.
Filed November 5, 1921. Serial No. 155,074. PUBLISHED MAY 2, 1922.

158,863. ENAMEL AND PAINT PREPARATIONS FOR COATING SURFACES, ESPECIALLY METAL CASTINGS. WILLIAMS-HAYWARD COMPANY, Chicago, Ill.
Filed March 17, 1921. Serial No. 144,888. PUBLISHED MARCH 14, 1922.

158,864. CANDIES. A. G. WILLIAMS HOMEMADE CANDY Co., INC., New Orleans, La.
Filed October 17, 1921. Serial No. 154,250. PUBLISHED JUNE 13, 1922.

158,865. HANDKERCHIEFS. WILSON BROTHERS, Chicago, Ill.
Filed March 30, 1922. Serial No. 161,516. PUBLISHED JUNE 20, 1922.

158,866. BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER, CANVAS, OR TEXTILE MATERIALS. WILSON PROCESS, INC., New York, N. Y.
Filed November 30, 1921. Serial No. 156,123. PUBLISHED MAY 16, 1922.

158,867. BLOOMERS, CHILDREN'S COVERALLS, AND SLEEPING GARMENTS. THE WINGET MANUFACTURING CO., Minneapolis, Minn.
Filed November 14, 1921. Serial No. 155,382. PUBLISHED JUNE 6, 1922.

158,868. COTTON AND WOOL BLANKETS, ROBES, AND RUGS. WOLFEBORO MILLS, Wolfeboro, N. H.
Filed February 15, 1922. Serial No. 159,395. PUBLISHED JUNE 6, 1922.

158,869. HAIR NETS. WONDERNETTE COMPANY, New York, N. Y.
Filed March 29, 1922. Serial No. 161,467. PUBLISHED JUNE 27, 1922.

158,870. CHILDREN'S ROMPERS, JUMPERS, OVERALLS, AND SMOCKS. WORNOVA MFG. CO., INC., New York, N. Y.
Filed July 21, 1921. Serial No. 150,791. PUBLISHED MAY 16, 1922.

158,871. CERTAIN ARTICLES OF CLOTHING. WORTH, INC., New York, N. Y.
Filed March 29, 1922. Serial No. 161,466. PUBLISHED JUNE 13, 1922.

158,872. KNIT UNDERWEAR FOR WOMEN AND CHILDREN. WRIGHT'S UNDERWEAR COMPANY, INCORPORATED, New York, N. Y.
Filed November 5, 1921. Serial No. 155,076. PUBLISHED JUNE 6, 1922.

158,873. VARNISH AND STAINS. WILLIAM ZINSSER & COMPANY, INCORPORATED, New York, N. Y.
Filed January 19, 1922. Serial No. 158,161. PUBLISHED MARCH 21, 1922.

158,874. CERTAIN NAMED MEDICINAL PREPARATIONS. CHARLES ZURAY, doing business as Fracello Remedy Co., Chicago, Ill.
Filed July 23, 1921. Serial No. 150,884. PUBLISHED MAY 30, 1922.

TRADE-MARK REGISTRATIONS RENEWED.

21,629. MEDICATED COTTON. Registered August 16, 1892. JAMES W. JOHNSON, New Brunswick, N. J., and New York, N. Y.; Johnson & Johnson, a Corporation of New Jersey, assignee. Renewed August 16, 1922.

21,630. MEDICATED COTTON. Registered August 16, 1892. JAMES W. JOHNSON, New Brunswick, N. J., and New York, N. Y.; Johnson & Johnson, a Corporation of New Jersey, assignee. Renewed August 16, 1922.

21,431. BLENDED TEA. Registered July 12, 1892. L. H. PARKE & Co., Philadelphia, Pa.; L. H. Parke Company, a Corporation of Pennsylvania, assignee. Renewed July 12, 1922.

21,432. TEA. Registered July 12, 1892. L. H. PARKE & Co., Philadelphia, Pa.; L. H. Parke Company, a Corporation of Pennsylvania, assignee. Renewed July 12, 1922.

22,108. ARTICLES OF VULCANIZED RUBBER, INCLUDING MATS AND MATTING. Registered August 22, 1892. NEW YORK BELTING AND PACKING COMPANY, (LIMITED). New York, N. Y.; New York Belting & Packing Company, a Corporation of New York, assignee. Renewed August 22, 1922.

22,244. PORTLAND CEMENT. Registered December 27, 1892. THE GILLINGHAM PORTLAND CEMENT COMPANY, LIMITED, London and Gillingham, England; The Associated Portland Cement Manufacturers—Limited, London, England, assignee. Renewed December 27, 1922.

22,356. CHOCOLATE. Registered January 24, 1893. HENRY L. PIERCE, Boston, Mass.; Walter Baker & Company, Limited, assignee. Renewed January 24, 1923.

LABELS

REGISTERED SEPTEMBER 12, 1922.

25,027.—*Title:* "CALIFORNIA COMMUNITY." (For Fresh Grapes.) ASSOCIATED FRUIT CO., Fresno, Calif. Filed August 17, 1922.

25,028.—*Title:* "WHITE MOUNTAIN." (For Baking Powder.) CAVERLY-PLUMER COMPANY, Lynn, Mass. Filed August 16, 1922.

25,029.—*Title:* "ORIGINAL CLARKS SEALARK MAYONNAISE." (For Mayonnaise.) CLARK BRO. & CO. INC., Baltimore, Md. Filed August 18, 1922.

25,030.—*Title:* "PERFECTION HEALING AND SOOTHING COMPOUND." (For Jars and Packages of Medicinal Salve.) TONY DESAPIO, Devon, Conn. Filed July 19, 1922.

25,031.—*Title:* "CROWNED WITH WEALTH OF VITAMINES." (For Containers Having Ingredients for Beverages Sold as a Soft Drink.) DOUGLAS & BURNS, LTD., Des Moines, Iowa. Filed August 18, 1922.

25,032.—*Title:* "CO-CO-CON." (For a Cone Made of Pure Chocolate and Filled with Confections.) PETER DOUVARS, Chicago, Ill. Filed July 6, 1922.

25,033.—*Title:* "BEAR-TITE PISTON RING." (For Envelopes and Boxes for Piston Rings.) FOSTER, MERRIAM & COMPANY, Meriden, Conn. Filed August 16, 1922.

25,034.—*Title:* "SENTRY HAIR CURLER." (For Hair Curlers.) JOSEPH GOLDSMITH, Jr., doing business as Goldsmith Manufacturing Co., Providence, R. I. Filed July 21, 1922.

25,035.—*Title:* "WAVO HAIR CURLER." (For Hair Curlers.) JOSEPH GOLDSMITH, Jr., doing business as Goldsmith Manufacturing Company, Providence R. I. Filed July 21, 1922.

25,036.—*Title:* "FIVE FRUIT." (For a Fruit Sirup.) H. H. HAY SONS, Portland, Me. Filed August 12, 1922.

25,037.—*Title:* "CLUB PUNCH." (For a Beverage.) HAY'S FRUIT JUICE Co., Portland, Me. Filed August 12, 1922.

25,038.—*Title:* "PANAMA PUNCH." (For a Beverage.) HAY'S FRUIT JUICE Co., Portland, Me. Filed August 12, 1922.

25,039.—*Title:* "INDIAN ROOT TEA." (For a Medicinal Compound—Namely, Indian-Root Tea.) INDIAN HERB & TONIC ROOT COMBINATION, New Orleans, La. Filed June 5, 1922.

25,040.—*Title:* "KLA-TA-WA KLEANER." (For a Soft-Soap Vegetable Compound for Cleaning Rugs, Carpets, Painted Surfaces, Shoes, Windows, Automobiles, and for Removing Stains and Spots from Clothing.) L. J. KRETCHMAN, doing business under the name of L. J. Kretchman & Co., Tacoma, Wash. Filed April 20, 1922.

25,041.—*Title:* "LUSTRE SOAP." (For Soap.) THE LUSTRE CHEMICAL COMPANY, Cleveland, Ohio. Filed August 18, 1922.

25,042.—*Title:* "CRESCENT NU-TYPE CHIMNEY." (For Boxes Containing Chimneys.) MACBETH-EVANS GLASS COMPANY, Pittsburgh, Pa. Filed August 12, 1922.

25,043.—*Title:* "MACBETH PEARL GLASS NU-TYPE CHIMNEY." (For Boxes Containing Chimneys.) MACBETH-EVANS GLASS COMPANY, Pittsburgh, Pa. Filed August 12, 1922.

25,044.—*Title:* "SUPERIOR." (For Noodles.) THE PFAFFMANN EGG NOODLE COMPANY, Cleveland, Ohio. Filed July 7, 1922.

25,045.—*Title:* "SUPERIOR." (For Sea Shells.) THE PFAFFMANN EGG NOODLE COMPANY, Cleveland, Ohio. Filed July 7, 1922.

25,046.—*Title:* "SUPERIOR." (For Vermicelli.) THE PFAFFMANN EGG NOODLE COMPANY, Cleveland, Ohio. Filed July 7, 1922.

25,047.—*Title:* "SUPERIOR." (For Spaghetti.) THE PFAFFMANN EGG NOODLE COMPANY, Cleveland, Ohio. Filed July 7, 1922.

25,048.—*Title:* "DOVE LOAD." (For Loaded Shot Shells.) REMINGTON ARMS COMPANY, INC., New York, N. Y.; Bridgeport, Conn.; and Ilion, N. Y. Filed June 30, 1922.

25,049.—*Title:* "PONCE DE LEON FOUNTAIN OF HEALTH." (For Medicines for the Nervous Diseases.) GUILLERMO H. RIVERA, doing business as Ponce De Leon Medicine Co., Tampa, Fla. Filed July 11, 1922.

25,050.—*Title:* "ORANGE SUNSHINE." (For a Non-alcoholic Beverage.) SAGE BROTHERS COMPANY, Boston, Mass. Filed August 18, 1922.

25,051.—*Title:* "CONTRAST." (For a Paint and Varnish Remover.) ARTHUR W. SCOLES, doing business as Arthur W. Scoles Co., Tulsa, Okla. Filed August 12, 1922.

25,052.—*Title:* "HY TONE LINEN." (For Stationery.) WESTERN TABLET & STATIONERY COMPANY, St. Joseph, Mo. Filed May 12, 1922.

PRINTS

REGISTERED SEPTEMBER 12, 1922.

6,305.—*Title:* "HARRIET HUBBARD AYER." (For Advertising Purposes for Toilet Preparations.) HARRIET HUBBARD AYER, New York, N. Y. Filed July 22, 1922.

6,306.—*Title:* "MISS LOTTA LITE." (For Advertising Purposes for Portable Lamps.) THE GREIST MANUFACTURING COMPANY, New Haven, Conn. Filed June 29, 1922.

6,307.—*Title:* "BOB-CURL." (For Advertising Purposes for a Hair-Curling Preparation.) WILLIAM BERT MADDER, Newark, N. J. Filed August 15, 1922.

6,308.—*Title:* "UNMASKS YOUR 'HIDDEN' BEAUTY." (For Advertising Purposes for Cosmetic Lotions for Beautifying the Skin and Eradicating Blemishes Thereof.) THOS. J. NEWLYN, doing business as the Beautypeel Cosmetic Co., El Paso, Tex. Filed May 24, 1922.

6,309.—*Title:* "MOV-EZY MEANS EASE AT THE MOVIES." (For Advertising Purposes for Theater Chairs.) JOSIAH PARTRIDGE & SONS, INCORPORATED, New York, N. Y. Filed July 10, 1922.

6,310.—*Title:* "STA-BRITE." (For Advertising Purposes for Automobile Paints.) STA-BRITE AUTO PAINTING CO., Newark, N. J. Filed July 8, 1922.

6,311.—*Title:* "SYBASCO." (For Advertising Purposes for Baskets of All Descriptions.) SYRACUSE BASKET COMPANY, INC., Syracuse, N. Y. Filed August 17, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Supreme Court of the United States.

UNION TOOL CO. *v.* WILSON.

Decided May 15, 1922.

1. APPEAL AND ERROR—CROSS WRIT OF ERROR LIES AFTER WRIT OF ERROR TO REVIEW PUNITIVE CONTEMPT ORDER.

Where the district court entered an order imposing a fine, which was partly remedial and partly punitive, for contempt in violating an injunction against the sale of machines which infringed plaintiff's patent, and purged of contempt in selling spare parts for such machines, the criminal feature of the order fixed its character for purposes of review, so that defendant could sue out a writ of error, on which the entire order could be reviewed, though a purely remedial order would be reviewable only on appeal, and after such writ of error had been sued out plaintiff may have a cross writ of error to review the portion of the order purging the defendant of contempt.

2. CONTEMPT—ORDER PURGING OF CONTEMPT IS NOT BEYOND REVIEW.

An order entered by the district court purging defendant of contempt in the sale of spare parts for infringing machines is not so entirely within the discretion of the trial court as to be beyond review.

3. APPEAL AND ERROR—LEGAL DISCRETION DOES NOT AUTHORIZE REFUSAL TO APPLY SETTLED PRINCIPLES OF LAW.

Legal discretion vested in the trial court does not extend to a refusal by it to apply well-settled principles of law to a conceded state of facts.

4. CONTEMPT—ORDER ON APPEAL TO IMPOSE PROPER PUNISHMENT HELD LIMITED TO COMPENSATION, AND NOT A DIRECTION FOR PUNISHMENT.

Where the circuit court of appeals, on defendant's writ of error to a judgment imposing a fine, which was both punitive and remedial, for contempt by selling infringing machines, reversed the judgment in so far as it was punitive, but affirmed it in so far as it was remedial, and on cross writ of error by plaintiff, to review an order purging defendant of contempt in the sale of spare parts for the infringing machines, reversed such order, a direction to impose such punishment as might seem proper must be understood as referring to compensation, and not to criminal punishment.

5. COURTS—WRIT ISSUED BY DISTRICT COURT MAY BEAR TESTE OF CHIEF JUSTICE.

Since the transfer of jurisdiction from circuit courts to district courts, writs issued by the district courts may properly be tested by the Chief Justice of the United States, in view of judicial code, sections 289, 291 (Comp. St., secs. 1206, 1208), notwithstanding the provision of Rev. St., section 911 (Comp. St., sec. 1534), that writs of district courts should bear teste of the district judge.

6. SAME—CORPORATION KNOWING OF INJUNCTION CANNOT OBJECT TO TESTE OF WRIT.

A corporation which knew of the injunction against the infringement of a patent, and was therefore bound to obey it, even if no writ had been issued, cannot object that the writ bore teste of the Chief Justice of the United States, instead of the district judge, especially where the objection was first made in the brief filed in the Supreme Court.

7. SAME—SALE OF SPARE PARTS FOR INFRINGING MACHINES SOLD BEFORE INJUNCTION HELD INFRINGEMENT.

The contention that a patentee, by receiving compensation for the infringing article sold, ratified the sales, does not relieve infringer of contempt in selling spare parts for machines sold before the injunction was issued, where it was not shown that the patentee received compensation for infringement by the use of the machines, and there was consequently no implied license to use the spare parts in such machines.

ON writ of certiorari to the United States Circuit Court of Appeals for the Ninth Circuit.

Suit for infringement of a patent by Elihu C. Wilson against the Union Tool Company. A judgment purging defendant of contempt in selling spare parts for the infringed article after injunction had been issued was reversed by the circuit court of appeals, with directions to impose such punishment as might seem proper (265 Fed., 669), and defendant brings certiorari. Affirmed.

Mr. Frederick S. Lyon, *Mr. A. V. Andrews*, *Mr. Melville Church*, and *Mr. William K. White* for the petitioner.

Mr. G. Benton Wilson and *Mr. F. W. Clements* for the respondent.

Mr. Justice BRANDEIS delivered the opinion of the Court.

Wilson sued the Union Tool Company in the Federal court for the southern district of California, southern division, for infringement of a patent for underreamers. He obtained a decree for an injunction and an accounting (237 Fed., 847), which was affirmed by the United States Circuit Court of Appeals for the Ninth Circuit (249 Fed., 736; 161 C. C. A., 640), and a petition for a writ of certiorari was denied by this Court (248 U. S., 559; 39 Sup. Ct., 6; 63 L. Ed., 421). Thereafter a writ of injunction issued, which forbade the manufacture and sale, not only of infringing machines, but also of parts or elements that might be used in combination to effect infringement.

Wilson claimed that there had been deliberate violation of the injunction, both by the sale of

infringing machines and by the sale of spare parts, and he moved in the district court that the company and certain of its officers be punished for contempt or otherwise dealt with for violating it. The district court found that, since the service of the injunction, the company had sold infringing machines, held it guilty of contempt in so doing, ordered that the company pay to the clerk of the court $5,000 as a fine, and that out of this sum $2,500 be paid to Wilson "as a reasonable portion of the expenses incurred" by him in the contempt proceeding, and further ordered that, if the fine were not paid within 20 days, Double, the company's president, be committed to jail, to be there confined until it should be paid. The district court also found that the company had sold, after the service of the injunction, spare parts to be used with machines or devices sold by the company prior thereto, and that these were of such a nature that when used in combination they would effect an infringement. But the court concluded, for reasons to be stated, that the sale of such spare parts should not subject the company to a fine, and purged it of contempt in that respect, without prejudice to the right of Wilson to renew his application.

To have this judgment entered in the contempt proceeding reviewed by the court of appeals, the company and Double sued out a writ of error, and thereafter Wilson sued out a cross writ of error. The two writs were considered and disposed of separately. On the original writ the judgment was modified by striking out all that related to Double, and it was reversed in so far as it "directed that $2,500 be paid to the clerk of the court as a punishment of the corporation." But in so far as the judgment directed payment to Wilson as compensation, it was affirmed. (262 Fed., 431.) On the cross writ, which was heard and decided later, the court of appeals overruled a motion to dismiss for want of jurisdiction, held the company guilty of contempt in selling the spare parts, held that the district court had abused its discretion in purging the company of this contempt, reversed, in that respect, the judgment, and remanded it, with directions to the district court to impose such punishment as might seem proper. (265 Fed., 669.) A motion of the company for leave to file a petition for mandamus to compel the court of appeals to vacate its judgment on the cross writ of error and to dismiss the latter was denied by this Court. (254 U. S., 608; 41 Sup. Ct., 12; 65 L. Ed., ——.) But a petition for a writ of certiorari was granted to review the reversal of the judgment in so far as it purged petitioner of contempt in selling the spare parts. (254 U. S., 624; 41 Sup. Ct., 14; 65 L. Ed., ——.) And it is that alone which is now here for review.

[1] The contention that the court of appeals was without jurisdiction of the cross writ of error is renewed here. It is argued that the judgment for contempt, so far as now sought to be reviewed, is remedial, not punitive; that being remedial, it can be reviewed only on appeal, and not on writ of error; that an appeal will not lie until after the final decree; and that no final decree had been entered, as the accounting was still in process. It is true that the part of the judgment for contempt now under review is remedial. But it does not follow that the court of appeals lacked jurisdiction to review it on the cross writ of error. The district court entered a single order, part remedial, part punitive. Where a fine is imposed, partly as compensation to the complainant and partly as punishment, the criminal feature of the order is dominant and fixes its character for purposes of review. (*In re Merchants' Stock Co., Petitioner*, 223 U. S., 639; 32 Sup. Ct., 339; 56 L. Ed., 584.) If the company had acquiesced in the judgment entered, Wilson, having no right to initiate a review of the punitive part, could not have instituted any appellate proceeding until after final decree. *Matter of Christensen Engineering Co.*, 194 U. S., 458; 24 Sup. Ct., 729; 48 L. Ed., 1072; *Doyle* v. *London Guarantee & Accident Co., Limited*, 204 U. S., 599; 27 Sup. Ct., 313; 51 L. Ed., 641. See also *Alexander* v. *United States*, 201 U. S., 117, 122; 26 Sup. Ct., 356; 50 L. Ed., 686.) But an order punishing one criminally for contempt, is a final judgment. The contemnor may obtain immediately a review by writ of error. (*Bessette* v. *W. B. Conkey Co.*, 194 U. S., 324, 336–338; 24 Sup. Ct., 665; 48 L. Ed., 997.) And the company availed itself of this right. When the order was thus brought before the court of appeals, it acquired, at the company's instance, jurisdiction to review that part which was civil as well as that which was criminal in its nature. In the exercise of that jurisdiction it granted, in respect to Double, relief which affected both the criminal and the civil parts of the order. If a cross writ of error had not been filed, Wilson could not have secured from the court of appeals relief in respect to that part of the order which was unfavorable to him. (*Bolles* v. *Outing Co.*, 175 U. S., 262, 268; 20 Sup. Ct., 94; 44 L. Ed., 156.) But a cross writ was duly filed, and that enabled the court to review the portion of the order, civil in its nature, which Wilson alleged to be erroneous; for the judgment in the contempt proceeding was a unit. The case resembles in some respects *Mayer* v. *Walsh* (108 U. S., 17; 1 Sup. Ct., 417; 27 L. Ed., 635); *Walsh* v. *Mayer* (111 U. S., 31, 37, 38; 4 Sup. Ct., 260; 28 L. Ed., 338.) (Compare *Field* v. *Barber Asphalt Co.*, 194 U. S., 618, 620, 621; 24 Sup. Ct., 784; 48 L. Ed., 1142.) The facts relating to the sale of spare parts were agreed, and the question before the court was merely as to their legal effect. That question could appropriately be considered on cross writ of error—even without resort to the power conferred by section 4 of the act of September 6, 1916, chapter 448, 39 Stat., 726 (Comp. St., sec. 1649*a*.) Cases like *ex parte National Enameling Co.* (201 U. S., 156; 26 Sup. Ct., 404; 50 L. Ed., 707) and *Farrar* v. *Churchill* (135 U. S., 609; 10 Sup. Ct., 771; 34 L. Ed., 246), relied upon by the company, are not applicable.

[2, 3] The company contends also that the judgment of the district court, being favorable to it in so far as it related to spare parts, was not subject to review by any appellate court, at any time, by any proceeding—although remedial in its nature. The argument is that where the court of whose authority contempt is charged either finds that there was no contempt or purges the offender, a judicial power has been exercised which is discretionary and is not subject to review. But the fact that a remedial order was entered in a contempt proceeding is not in itself a reason why it should not be subject to correction by an appellate court. In *Worden* v. *Searls* (121 U. S., 14, 26; 7 Sup. Ct., 814; 30 L. Ed., 853) such an order granting compensation was reversed by this Court, and in the court of appeals like orders of the district court denying compensation have been reviewed. (*Enoch Morgan's Sons Co.* v. *Gibson*, 122 Fed., 420; 59 C. C. A., 46; *L. E. Waterman Co.* v. *Standard Drug Co.*, 202 Fed., 167; 120 C. C. A., 455.) In the determination of the question whether an injunction has been violated and, if so, whether compensation shall be made to the injured party, there may be occasion for the exercise of judicial discretion; but the order to be entered in such a proceeding is not exclusively or necessarily a discretionary one. (See *Christensen Engineering Co.* v. *Westinghouse Co.*, 135 Fed., 774; 68 C. C. A., 476; *Gordon* v. *Turco-Halvah Co.*, 247 Fed., 487; 159 C. C. A., 541.) Moreover, legal discretion in such a case does not extend to a refusal to apply well-settled principles of law to a conceded state of facts. (See *Winchester Repeating Arms Co.* v. *Olmsted*, 203 Fed., 493, 494; 121 C. C. A., 615; *in re Sobol*, 242 Fed., 487, 489; 155 C. C. A., 263.)

[4–6] Minor objections of a procedural nature are also urged. It is said that while the infringement by sale of spare parts was a civil contempt, the court of appeals directed the district court "to impose such punishment as may seem proper" and thus ordered criminal punishment. In view of the opinion and other proceedings, the direction must be understood as referring to compensation. (Compare *Gompers* v. *Bucks Stove Co.*, 221 U. S., 418, 441; 31 Sup. Ct., 492; 55 L. Ed., 797; 34 L. R. A. (N. S.), 874.) Then it is insisted that the writ of injunction, although properly attested by the clerk of the district court, was void and of no effect because it bears teste of the late Chief Justice of the United States, whereas by section 911 of the Revised Statutes (Comp. St. sec. 1534) it should have borne teste of the district judge. Under that section writs from the circuit courts bore teste of the Chief Justice; and since the transfer of their jurisdiction to the district courts writs from them may be properly tested by the Chief Justice. (See Judicial Code, secs. 289, 291; (Comp. St., secs. 1206, 1208).) But the company is in no position to make the objection. Knowing of the injunction, it would have been bound to obey it even if no writ had issued. (*In re Lennon*, 166 U. S., 548, 554; 17 Sup. Ct., 658; 41 L. Ed., 1110.) Moreover, the objection to the teste of the writ is made, so far as appears, for the first time, in the brief filed by petitioner in this court. (Compare *District of Columbia* v. *Brooke*, 214 U. S., 138, 147; 29 Sup. Ct., 560; 53 L. Ed., 941.)

[7] On the merits the contention is this: The interlocutory decree awards to Wilson, among other things, compensation by way of damages and profits, for employing the invention in any machine sold prior to the service of the injunction. A patentee, in demanding and receiving full compensation for the wrongful use of his invention in devices made and sold by a manufacturer adopts the sales as though made by himself, and therefore necessarily licenses the use of the devices, and frees them from the monopoly of the patent. This license continues during the life of the machine; it does not end when repairs become necessary. Spart parts are needed for repairs. Those here in question were sold for use in, and repair of, machines marketed by the company before the service of the injunction. Therefore, it is argued, the sale of these parts is licensed and thus not a violation of the injunction. But to this argument which prevailed in the district court, there are several answers; and, among them, this. It does not appear that Wilson has received any compensation whatever for the infringement by use of these machines. (Compare *Birdsell* v. *Shalliol*, 112 U. S., 485, 487–489; 5 Sup. Ct., 244; 28 L. Ed., 768.) There was, consequently, no implied license to use the spare parts in these machines. As such use, unless licensed, clearly constituted an infringement, the sale of the spare parts to be so used violated the injunction. And the sale having been made with full knowledge of all relevant facts the court of appeals properly held that, so far as Wilson had sought remedial, as distinguished from punitive action, the district court was not justified in purging the petitioner of contempt arising from the sale of spare parts.

Affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) The Just and Hanaman patent, No. 1,018,502, for tungsten-lamp filament, *Held* infringed. *General Electric Co.* v. *Alexander*, 280 Fed. Rep., 852.

(U. S. D. C. N. J.) The Langmuir patent, No. 1,180,159, for nitro-tungsten electric lamps, *Held* not anticipated and infringed. *General Electric Co.* v. *Incandescent Products*, 280 Fed. Rep., 856.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

803,684, J. A. Fleming, Instruments for converting alternating electric currents into continuous currents; 841,387, L. De Forest, Device for amplifying feeble electrical currents; 879,532, L. De Forest, Space telegraphy, suit filed Aug. 16, 1922, U. S. D. C., S. D. N. Y., Doc. E 24–240, *Radio Corp. of*

America v. *A. E. Reyman.* Same, suit filed Aug. 16, 1922, U. S. D. C., S. D. N. Y., Doc. E 24-240, *Radio Corp. of America* v. *S. & N. Radio Supply Co.* Same, suit filed Aug. 17, 1922, U. S. D. C., S. D. N. Y., Doc. E 24-242, *Radio Corp. of America* v. *P. J. Schweitzer et al.* Same, suit filed Aug. 17, 1922, U. S. D. C., S. D. N. Y., Doc. E 24-243, *Radio Corp. of America* v. *M. A. Modell et al.*

816,926, C. Lien, Anticreeper; 968,797, C. D. Porterfield, Rail anchor; 1,146,994, J. A. Bodkin, Rail anchors, suit filed Aug. 2, 1922, U. S. D. C., N. D. N. Y., Doc. 374, *The P. & M. Company* v. *Arcco Anti Rail Creeping Co., Inc. et al.*

841,387. (See 803,684.)

879,532. (See 803,684.)

933,263, G. W. Pickard, Oscillation devices; 1,104,065, B. J. Miessner, Detector for wireless apparatus; 1,104,073, Detector for wireless telegraphy and telephony; 1,137,714, Solid rectifier for feeble electric currents; 1,225,852, Rectifiers; Reissue 13,798 (original No. 877,451), Means for receiving intelligence communicated by electric waves, G. W. Pickard, suit filed Aug. 17, 1922, U. S. D. C., S. D. N. Y., Doc. E 24-244, *Wireless Specialty Apparatus Co.* v. *F. A. D. Andrea.* Same, suit filed Aug. 18, 1922, U. S. D. C., S. D. N. Y., Doc. E 24-246, *Wireless Specialty Apparatus Co.* v. *Magnus Electric Co.*

958,478, W. E. Davey, Process of reinforcing trees, suit filed July 10, 1922, U. S. D. C., N. D. N. Y., Doc. 373, *The Davey Tree Expert Co.* v. *G. G. Brown.* Same, suit filed Aug. 23, 1922, U. S. D. C., D. Conn., Doc. 1615, *Davey Tree Expert Co.* v. *F. B. Colter.*

968,797. (See 816,926.)

1,060,190, J. Kellner and S. Worms, Knitted neckties, suit filed Aug. 16, 1922, U. S. D. C., S. D. N. Y., Doc. E 24-237, *Franklin Knitting Mills, Inc.* v. *Gimbel Bros.*

1,104,065. (See 933,263.)

1,104,073. (See 933,263.)

1,107,700, H. Pick, Drinking glass, suit filed Aug. 14, 1922, U. S. D. C., S. D. N. Y., Doc. E 24-235, *Nonik Glassware Corp. et al.* v. *J. E. Garvey.*

1,132,258. (See 1,219,200.)

1,137,714. (See 933,263.)

1,146,994. (See 968,797.)

1,161,094, J. A. Werner, Cash register; 1,232,705, H. A. Martin, Multiple-counter cash register; 1,394,256, F. L. Fuller, Cash register, suit filed Nov. 9, 1921, U. S. D. C., D. Delaware, Doc. 443 Eq., *National Cash Register Co.* v. *Remington Arms Co., Inc. et al.* Decree denying motion for preliminary injunction as to patent #1,394,256 filed Aug. 7, 1922.

1,181,730, Reissue 14,676 (original No. 1,181,730), J. W. Buell, Combined automatic train signaling and control system, suit filed Aug. 16, 1922, U. S. D. C., D. Maryland, Doc. 308 Eq., *Buell Signal & Train Control Co., Inc.* v. *American Automatic Train Control Corp.*

1,200,039, J. A. Speed, Carbureter, suit filed Aug. 7, 1922, U. S. D. C., N. D. Calif., Doc. 16756, *New Speed Carburetor Co.* v. *J. E. French Co.*

1,219,299, Burr for treating grindstones, 1,132,258, Process and apparatus for reducing wood to pulp; E. M. Hall, suit filed Aug. 16, 1922, U. S. D. C., N. D. N. Y., Doc. 376, *Wood Grinding Service, Inc.* v. *International Burr Corp.*

1,225,852. (See 933,263.)

1,232,705. (See 1,161,094.)

1,235,680, A. Greco, Device and method of canning beans, suit filed Aug. 2, 1922, U. S. D. C., N. D. Calif. (S. Div.), Doc. 787 Eq., *Greco Canning Co., Inc.* v. *San Jose Canning Co.*

1,394,256. (See 1,161,094.)

Reissue 13,798. (See 933,263.)

Reissue 14,676. (See 1,181,730.)

Patents Nos. 1,429,215 to 1,429,914.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

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Issue of September 19, 1922.

Patents	700—No.	1,429,215 to No. 1,429,914,	inclusive.
Designs	23—No.	61,492 to No. 61,514,	inclusive.
Trade-Marks	370—No.	148,975 to No. 150,344,	inclusive.
Reissues	1—No.	15,457.	
Total	1094		

Attorneys.

(Order No. 2,770.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 7, 1922.

Pursuant to the provisions of section 487 of the Revised Statutes, as amended February 18, 1922, Gustav Rasmus, of Wheatridge, Colorado, registration No. 3,253, has been disbarred from practice before the United States Patent Office.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 29, 1922.

The Reid-Edelmuth Manufacturing Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Allman Gas Engine and Machine Co., of 481 Canal Street, New York, N. Y., for registration of a trade-mark and trade-mark registered November 16, 1909, to The Reid-Edelmuth Manufacturing Co., of 247 Bush Street, Brooklyn, N. Y., and a notice of such declaration sent by registered mail to The Reid-Edelmuth Manufacturing Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Reid-Edelmuth Manufacturing Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 12, 1922.

Penn Textile Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Kohn, Adler & Co., 720 Market Street, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered November 29, 1921, No. 148,915, to Penn Textile Company, 102 Fifth Avenue, New York, N. Y., and a notice of such declaration sent by registered mail to said Penn Textile Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Penn Textile Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., Sept. 12, 1922.

H. M. Miller & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Kohn, Adler & Co., 720 Market Street, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered April 20, 1897, No. 29,877, to H. M. Miller & Co., 1022 Filbert Street, Philadelphia, Pa., and a notice of such declaration sent by registered mail to said H. M. Miller & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said H. M. Miller & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Adverse Decisions in Interference.

PATENT No. 1,365,421.

On August 17, 1922, a decision was rendered that Thomas C. MacKay was not the first inventor of the subject matter covered by claims 4, 5, and 6 of his Patent No. 1,365,421, subject, "Control apparatus," and no appeal having been taken within the time allowed such decision has become final.

Applicant's Address.

The requirement of Rule 33, that the post-office address of the applicant must be stated in the petition, means that the applicant must give the post-office address at which he customarily receives his mail.

The rule was made in order that the Office in necessary cases might correspond directly with the applicant and not through his attorney. The address of the attorney with instructions to send communications to the applicant in his care will not be accepted as a compliance with this rule.

Condition of Applications Under Examination at Close of Business September 9, 1922.

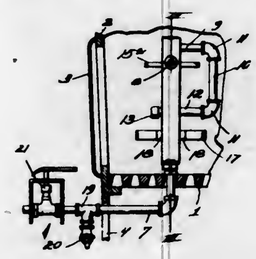
(Total number of applications waiting action, excluding Trade-Mark division, 69,832; Trade-Mark division, 8,044. Oldest new case, June 1; oldest amended, May 9, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	*Feb. 6	*Feb. 24	984
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Sept. 6	Aug. 30	1,899
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 9	Aug. 19	1,094
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Oct. 26	*July 1	1,443
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 15	Nov. 14	1,192
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 1	*Mar. 30	1,457
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Nov. 22	*Jan. 14	2,273
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*June 9	*July 27	876
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	July 5	*June 15	1,154
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	*Jan. 30	*June 16	1,246
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Mar. 15	*Mar. 15	824
322	12. PIERCE, P. P., Machine Elements	*Mar. 10	*June 2	1,121
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Aug. 9	*June 8	1,547
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Sept. 8	*June 12	1,237
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 15	Oct. 14	1,809
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Sept. 1	Sept. 6	2,477
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Oct. 20	Apr. 3	1,448
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Aug. 6	Aug. 3	2,475
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Aug. 17	*Jan. 13	1,221
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Apr. 17	*May 1	1,532
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Oct. 24	*Apr. 25	908
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	*Jan. 4	*Apr. 11	674
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Aug. 11	Nov. 28	811
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Nov. 15	*Apr. 18	1,338
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*June 7	*June 10	497
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Oct. 10	*Mar. 6	1,108
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Oct. 14	Oct. 7	2,082
225	28. BENSON, A. R., Internal-Combustion Engines	Nov. 28	Nov. 14	1,649
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Dec. 3	*July 12	631
152	30. SULLIVAN, M. B., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	*Feb. 9	*July 13	1,371
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 29	Nov. 18	2,007
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Nov. 4	*May 4	1,015
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	*Jan. 11	*Mar. 8	905
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	*May. 2	*May 4	585
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Apr. 7	*Apr. 26	1,144
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Mar. 10	*Mar. 9	1,797
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Oct. 10	Nov. 8	1,931
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Nov. 2	Oct. 24	1,879
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 15	June 21	2,201
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Sept. 19	Nov. 4	2,574
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Apr. 1	*May. 1	858
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Oct. 18	Sept. 9	2,027
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Oct. 28	Oct. 7	1,202
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 13	*Feb. 14	1,478
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Jan. 14	*Mar. 16	1,344
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 26	Dec. 8	1,282
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Nov. 12	*Apr. 1	1,286
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	June 1	May 19	2,879
	49.	Sept. 14	July 1	1,060
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	Oct. 1	*May 3	5,757
	Designs	*Mar. 2	*Apr. 1	2,120
	Labels and Prints	*Aug. 19	*Aug. 23	157

PATENTS

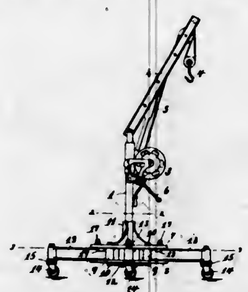
GRANTED SEPTEMBER 19, 1922.

1,429,215. OIL BURNER. ALBERT H. ADCOX, Kansas City, Kans. Filed Oct. 31, 1921. Serial No. 511,575. 4 Claims. (Cl. 158—63.)



4. In an oil burner, the combination with a generator formed with an opening having its walls near the upper end of said opening bowed inwardly to form a pair of ledges, a detachable flame-spreader supported by said ledges, a pair of downwardly depending V-shaped deflectors formed on said spreader, and a discharge pipe having a jet orifice in substantial vertical alinement with the axis of said flame spreader.

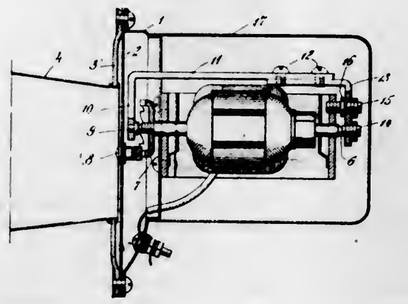
1,429,216. PORTABLE HOISTING APPARATUS. ARTHUR J. ARWINE, New York, N. Y., assignor to Gillis & Geoghegan, New York, N. Y., a Firm. Filed Feb. 2, 1921. Serial No. 441,733. 6 Claims. (Cl. 212—140.)



1. In a hoisting apparatus, two disks disposed horizontally one above the other, means for rigidly joining said disks and holding them spaced apart, a tubular post on the upper disk adapted to receive the cylindrical standard of a hoisting mechanism, arms pivotally mounted at their inner ends between said disks and movable horizontally, and casters on the outer ends of said arms.

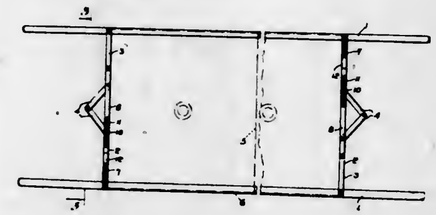
1,429,217. WARNING SIGNAL. EMANUEL AUFIERO, Brooklyn, N. Y. Filed June 27, 1921. Serial No. 480,550. 13 Claims. (Cl. 177—7.)

1. In a warning signal the combination of a diaphragm, an actuator therefor, a shaft for said actuator, a frame by which said shaft is supported and means for adjusting said actuator toward and from said diaphragm comprising



an adjustable member independent of said frame and engaging said shaft at both ends thereof.

1,429,218. CARBOY CARRIER. ALLEN J. BECKER, Essex Fells, N. J. Filed Jan. 10, 1921. Serial No. 436,190. 5 Claims. (Cl. 294—15.)

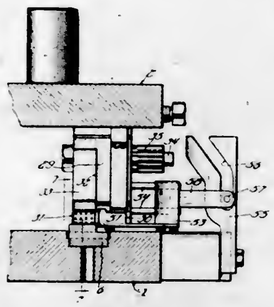


1. In a carboy carrier, a pair of longitudinal bars, cross pieces connecting said bars, each of said cross pieces comprising inwardly projecting arms rigidly connected at one end to the longitudinal bars, links, each pivotally connected at one end to one of the arms, and at their other end to each other, ratchet teeth carried by one arm, and a spring held dog carried by the other arm and engageable with the ratchet teeth.

1,429,219. DIE. HENRY BELLON, Chicago, Ill. Filed May 28, 1920. Serial No. 384,853. 7 Claims. (Cl. 153—13.)

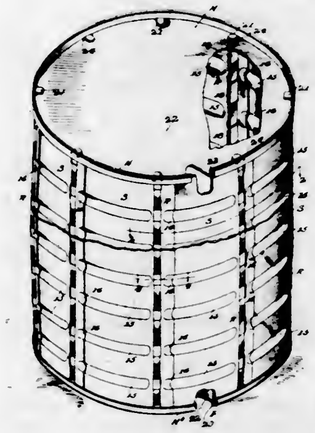
1. In a die of the character described, the combination of fixed and movable die members, one of said die members being provided with a forming recess comprising transversely movable forming blocks, the other of said die members comprising an arbor extending transversely to the path of the movable die member, an oscillating arm

mounted on said movable die member, and adjacent said arbor, said members acting successively to bend a strip of



metal into U-shape, to bend one end portion thereof over said arbor, and to apply pressure to the formed strip.

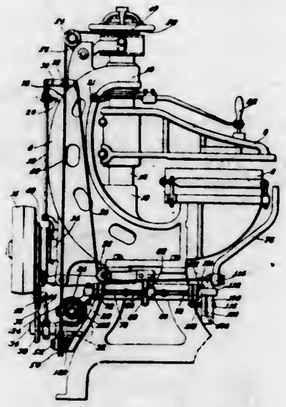
1,429,220. METALLIC KEG. ROBERT W. BLANTON, Ironton, Ohio. Filed Apr. 14, 1921. Serial No. 461,177. 7 Claims. (Cl. 220—5.)



1. In a metal barrel, a side section having formed adjacent each longitudinal edge a plurality of spaced recesses, said recesses extending the entire length of the section and a portion existing between the recesses arranged along one edge being bent upon itself for the purpose described.

1,429,221. PRESS. WILLIAM J. BRENNAN, Swampscott, Mass., assignor to United Shoe Machinery Corporation of Paterson, N. J., a Corporation of New Jersey. Filed Mar. 21, 1919. Serial No. 284,149. 13 Claims. (Cl. 164—23.)

1. In a machine of the class described, a cutting bed, a presser member, a post carrying said presser member, and means comprising a cable operatively connected to the

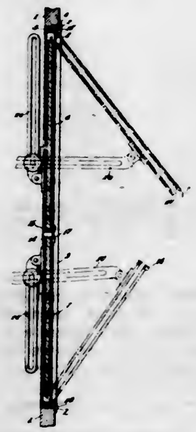


post for moving the presser member into selected position over the cutting bed.

1,429,222. PROCESS FOR CLEANING CONTACT MATERIAL. THOMAS LYNTON BRIGGS, Flushing, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Sept. 15, 1920. Serial No. 410,547. 6 Claims. (Cl. 23—28.)

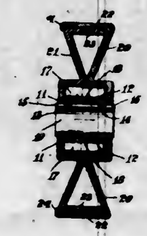
1. A process for removing foreign substances from contact material mounted on fibrous material, which comprises washing said contact material with water without disarranging such material.

1,429,223. WINDSHIELD. JOSEPH G. BRUENING, Cleveland, Ohio. Filed June 29, 1921. Serial No. 481,179. 3 Claims. (Cl. 296—93.)



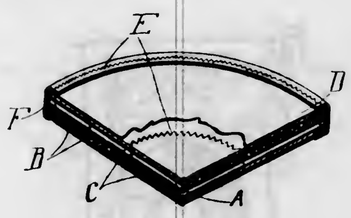
1. A windshield comprising a metallic frame adapted to be fitted into an opening, upper and lower windshield sections pivotally supported within said frame, said lower section being hingedly connected along its lower edge to said frame and adapted to open outwardly therefrom independently of said upper section, a flange formed on said frame and adapted to overlap the frame defining said opening, and a second flange formed on said metal frame about the sides and bottom of said lower shield section and projecting in an opposite direction from said first flange, said second flange being adapted to contact with said lower shield section and form a seal therewith.

1,429,224. ROLLER BEARING. THOMAS W. BRYANT, Torrington, Conn. Filed Jan. 8, 1921. Serial No. 435,830. 3 Claims. (Cl. 64—62.)



3. In a roller bearing, a split tubular support having slots in its opposite ends, bearing collars having lugs positioned in said slots, an outer bearing member enclosing said collars and forming end abutments therefor, and rollers interposed between said outer bearing member and said collars.

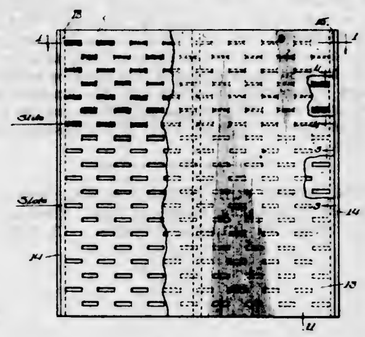
1,429,225. TABLE PAD. MARK CAMPBELL, Cincinnati, Ohio. Filed Feb. 2, 1921. Serial No. 441,937. 3 Claims. (Cl. 65—53.)



1. As a new article of manufacture, a table pad comprising a center sheet, corrugated sheets mounted upon the center sheet and having their corrugations disposed substantially at right angles to one another, backing sheets mounted upon the corrugated sheets, a cover extending over the backing sheets, and a row of stitching passing through the cover, the backing sheets, the corrugated sheets and the center sheet.

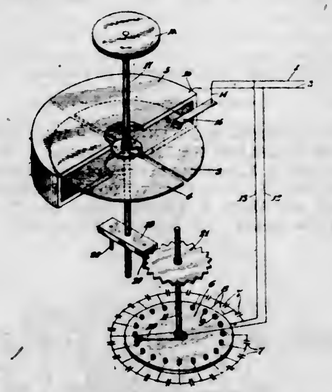
1,429,226. PLASTER-RECEIVING BOARD. HARRY A. CUMPER, Chicago, Ill., and ALBERT D. STEWART, Dayton, Ohio. Filed June 21, 1921. Serial No. 479,181. 2 Claims. (Cl. 72—116.)

2. A plaster receiving board comprising a plurality of suitable, united sheets, having a series of spaced apart unobstructed openings therein when the plaster has been applied, each opening bounded on its sides by two flexible



outstanding wings, with their free edges facing and extending away from the side to which the plaster is to be applied.

1,429,227. VARIABLE CONDENSER. WILLIAM DUBILIER, New York, N. Y., assignor to Dubilier Condenser & Radio Corporation, a Corporation of Delaware. Filed Sept. 28, 1921. Serial No. 503,097. 21 Claims. (Cl. 250—41.)



1. In combination a fixed condenser adjustable to different capacities, variable condensers each having a maximum capacity substantially equal to the difference between the fixed capacity values, and means for placing said variable condensers selectively in circuit with said fixed condenser.

1,429,228. TOBACCO-PIPE STAND. WILLIAM E. EDWARDS, Irvington, N. J. Filed July 10, 1919. Serial No. 309,807. 3 Claims. (Cl. 131—12.)



1. A tobacco pipe support having a prop formed of a single piece of wire with a pair of spaced arms adapted

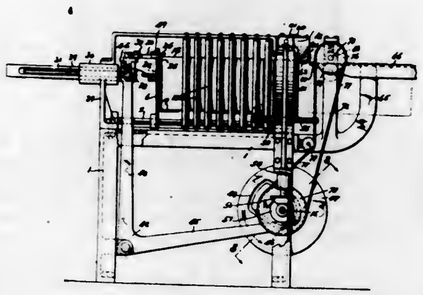
to be pivoted at their free ends to a pipe stem so that the prop will swing longitudinally thereof, said arms being connected at their other ends by an arch extending out of the plane of the arms and adapted at one end of the swing of said arms to receive the pipe stem within its bend and allow the support to fold compactly thereagainst and at the other end of the swing of said arms to abut against the stem of the pipe and hold the prop away from the same in supporting position with the junction points of said arch and arms serving as feet to engage a supporting surface at opposite sides of the median line of said pipe.

1,429,229. STAND FOR CIGARETTES AND THE LIKE. WILLIAM E. EDWARDS, Irvington, N. J. Filed Apr. 15, 1921. Serial No. 461,522. 5 Claims. (Cl. 131—12.)



4. A stand of the character described including a member to be attached to an article to be supported and provided with a pair of spaced pivot sleeves, and a pair of substantially U-shaped props having their arms pivotally connected to the respective ones of said sleeves and adapted to swing longitudinally of said article away from each other into an operative position and toward each other into inoperative position, one of said props receiving the other within itself in a nested relation when said props are disposed in an inoperative position.

1,429,230. FEEDING MECHANISM FOR WIRE STITCHING OR STAPLING MACHINES. DENIS A. FLAVELL, Jersey City, N. J., assignor to Bernard Company of N. J., Jersey City, N. J., a Firm composed of Theodore F. Bernard and Denis A. Flavell. Filed Nov. 12, 1921. Serial No. 514,644. 8 Claims. (Cl. 1—7.)



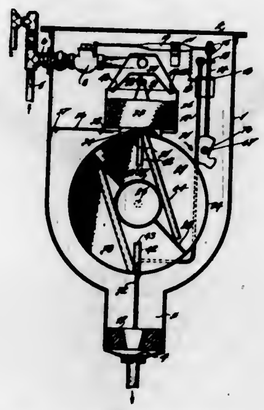
2. In a mechanism of the kind described, means for supporting pamphlets or the like massed together on edge with their folded edges uppermost, a propelling means, means for successively delivering pamphlets endwise from said mass to said propelling means, a guide rail to which said pamphlets are successively delivered by said propelling means, and means intermediate said propelling means and the receiving end of said guide rail for expanding the forward portion of the folded edge of each pamphlet to permit the latter to enter upon and straddle said guide-rail.

1,429,231. CAN-CLOSING MACHINE. PAUL W. FLEISCHER, New York, N. Y., assignor to American Can Company, a Corporation of New Jersey. Filed Dec. 1, 1915. Serial No. 64,494. 15 Claims. (Cl. 113—14.)



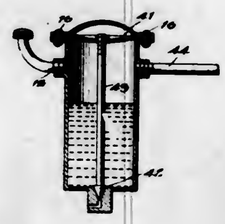
1. In a seaming head, in combination: a seaming head body; seaming roll carrying members; seaming rolls mounted on said carrying members; means for actuating said rolls; a chuck member cooperating with the said rolls, and arcuate guard members extending in line above the can body from near one seaming point to near the other seaming point and adapted to limit the upward movement of a can body within the seaming head relative to the said seaming rolls and chuck.

1,429,232. FLUID-MEASURING APPARATUS. NORMAN B. GARDINER, Staten Island, N. Y. Filed May 31, 1917. Serial No. 171,825. 18 Claims. (Cl. 221—106.)



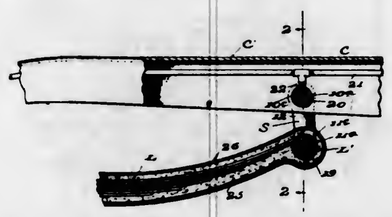
1. In a fluid measuring apparatus, in combination, a measuring container adapted to be completely filled with the liquid to be measured, an opening on one wall thereof whereby said container may be filled, a partition extending from a position flush with the opening to a position within said container, and dividing said opening into a fluid inlet portion and an air outlet portion.

1,429,233. LUBRICATING SYSTEM. PALEMON H. GASKINS, Jacksonville, Fla. Filed Jan. 10, 1921. Serial No. 436,207. 2 Claims. (Cl. 184—76.)



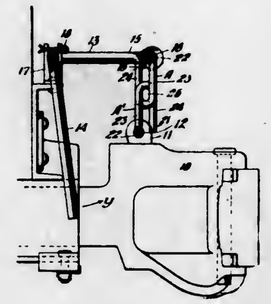
1. In a lubricating system, in combination, a motor vehicle including an engine having a manifold, a chassis, a running gear, and a spring suspension having a cover enclosed leaf spring and a shackle connection, consisting of an upper and a lower shackle bolt, each of said shackle bolts having an axial and a radial bore, a reservoir for the lubricant having a discharge outlet, conveying devices from the discharge outlet to the chassis, running gear, and spring suspension, the conveying devices to the spring suspension leading to the radial bore of the upper shackle bolt, a pipe connection between the axial bores of the shackle bolt, means for utilizing the excess of lubricant from the shackle connection to lubricate the cover enclosed leaves of the spring, and pressure controlled means operated by the pressure in the manifold of the engine for governing the flow of the lubricant through the discharge outlet.

1,429,234. LUBRICATING SYSTEM. PALEMON H. GASKINS, Jacksonville, Fla. Original application filed Jan. 10, 1921, Serial No. 436,207. Divided and this application filed Oct. 6, 1921. Serial No. 505,821. 2 Claims. (Cl. 267—37.)



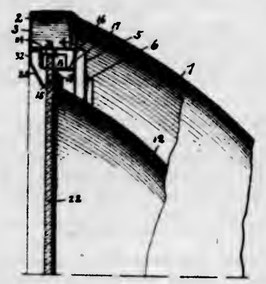
1. In a lubricating system, in combination, a chassis including a channel side member, a spring, a shackle connection between the chassis and the spring, including a shackle bolt having passages for the lubricant, means for supplying lubricant to said shacgle bolts including a supply pipe extending through the channel member of the chassis and communicating with the passages of one of the shackle bolts, a pipe connection between the passages of the shackle bolts for conveying the lubricant supplied to the passages of one of the shackle bolts by the supply pipe to the passages of the other of said shackle bolts, and means for utilizing the excess lubricant from the shackle connection to lubricate the spring and including an envelope of absorbent material encasing the spring and associated with the shackle connection and a boot of flexible impervious material encasing the absorbent envelope.

1,429,235. COUPLING-RELEASE MECHANISM. WILLIAM A. GEIGER, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Nov. 1, 1920. Serial No. 420,879. 2 Claims. (Cl. 213—59.)



1. In a coupler release mechanism having a locking pin provided with an opening and a release lever having an opening disposed approximately above the locking pin, a connector comprising two loosely and detachably connected links, each link having a lateral opening near its end farthest from the other link, said openings adapting the two links to be detachably linked together and also to be independently threaded through the respective openings of the lever and locking pin all without the aid of tools.

1,429,236. HEADLIGHT. CHARLES E. GODLEY, Detroit, Mich., assignor to Edmunds & Jones Corporation, Detroit, Mich., a Corporation of New York. Filed Feb. 5, 1921. Serial No. 442,638. 6 Claims. (Cl. 240—41.)

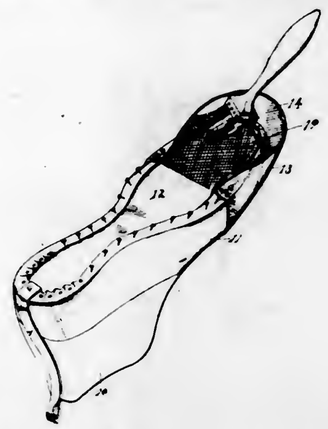


1. In a headlight, a sheet metal body having an opening and the metal of the body around the opening being bent radially inwardly and then rearwardly to constitute an interior cylindrical flange, a lens holder rotatably mounted within the opening in the body and embodying a portion extending within said cylindrical flange, and means between the lens holder and the cylindrical flange to secure the lens holder in position so that its outer portion will be practically in the plane of the radial end of the lamp body.

1,429,237. METHOD OF PROTECTING SHOES DURING TOE SOFTENING. JOHN B. HADAWAY, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 6, 1919. Serial No. 315,658. 5 Claims. (Cl. 12—145.)

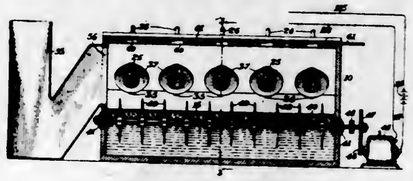
1. That improvement in the art of making shoes which

consists in applying a coating of heat-resisting material to portions of a shoe adjacent to other portions which



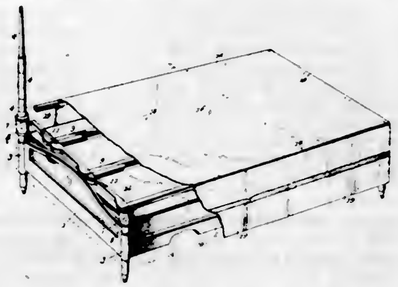
are to be softened, then subjecting said portions to the influence of a softening agent.

1,429,238. SMOKE-SCREEN PRODUCER. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Dec. 30, 1916, Serial No. 139,902. Renewed Feb. 20, 1922. Serial No. 538,095. 22 Claims. (Cl. 158—91.)



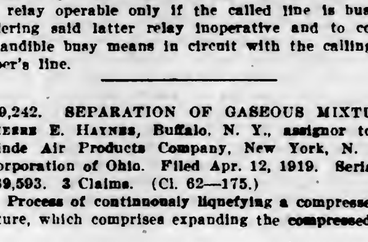
1. A smoke screen producer comprising a fire-box, a burner arranged to produce an imperfect combustion of smoke producing material in said fire-box, means for injecting fire retarding material in said fire-box, and means responsive to radiant energy for controlling said burner and said injecting means.

1,429,239. CONVERTIBLE BED. EMILIE B. HANDEL, Baltimore, Md. Filed Dec. 8, 1920. Serial No. 429,129. 3 Claims. (Cl. 5—41.)



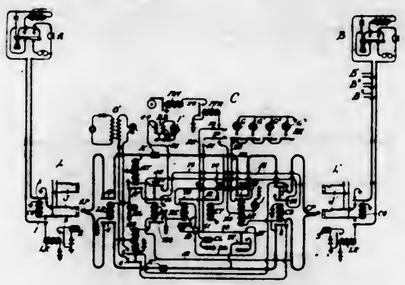
1. The combination of a bed having recessed legs, a cover frame having a fabric stretched thereover, and a pin arranged in each of the corners of said frame cooperating with the recesses in said legs for detachably supporting said frame over said bed.

1,429,240. RADIOSIGNALING SYSTEM. EARL C. HANSON, Washington, D. C., and EDWARD T. JONES, New Orleans, La. Filed Feb. 24, 1920. Serial No. 361,062. 4 Claims. (Cl. 250—33.)



4. In a radio transmission and reception system an antenna comprising a plurality of casings buried in the earth, a series of metallic plates within said casings, a second set of metallic plates mounted on a rotatable shaft and intermeshed with said first mentioned plates but insulated therefrom whereby the relative position of the two sets of plates may be varied and a circuit associated with radio signaling apparatus connecting said sets of rotatable plates.

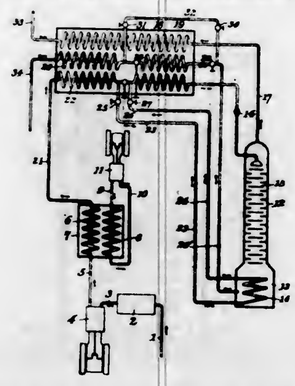
1,429,241. TELEPHONE SYSTEM. JESSE F. HAYDEN, High Point, N. C., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 12, 1917. Serial No. 148,049. 31 Claims. (Cl. 179—58.)



1. A telephone system including a calling and a called subscriber's line, a link circuit for connecting said lines, an operator's telephone, a relay for connecting said operator's telephone to the link circuit, a relay for disconnecting said operator's telephone from the link circuit, audible busy means for said link circuit, and a busy test relay operable only if the called line is busy for rendering said latter relay inoperative and to connect the audible busy means in circuit with the calling subscriber's line.

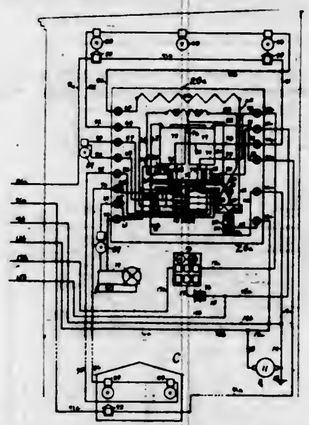
1,429,242. SEPARATION OF GASEOUS MIXTURES. PIERRE E. HAYNES, Buffalo, N. Y., assignor to The Linde Air Products Company, New York, N. Y., a Corporation of Ohio. Filed Apr. 12, 1919. Serial No. 289,593. 3 Claims. (Cl. 62—175.)

1. Process of continuously liquefying a compressed gas mixture, which comprises expanding the compressed mixture under such conditions that at least a portion of the mixture shall be liquefied thereby, collecting liquid so formed, heating the liquid with compressed gas mix-



ture passing to the expansion stage, whereby such mixture is cooled, and additionally refrigerating such cooled mixture by means of gases which have passed through the expansion stage.

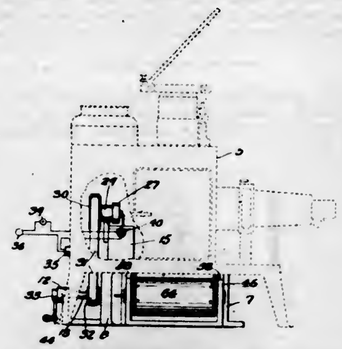
1,429,243. ELECTRIC SIGNALING SYSTEM. SIMON B. HESS, Jamaica, N. Y. Filed Jan. 21, 1918. Serial No. 218,111. 11 Claims. (Cl. 177—360.)



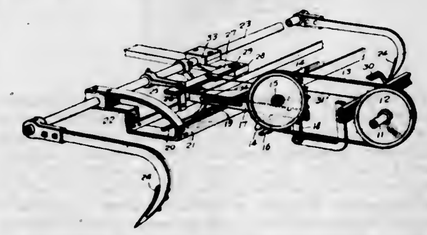
1. An electric signaling system comprising a source of energy, a signal receiving loop, a resistance, a signal sending loop, an electromagnet therein, and means controlled by said magnet upon energization thereof for connecting said loops and said resistance in series with each other and to the source of energy and upon de-energization thereof for connecting said signal sending loop directly to the source of energy and thereafter connecting said signal receiving loop directly to the source of energy and short-circuiting said resistance.

1,429,244. PROJECTOR LANTERN. WILLIAM L. ISBELLS, Elizabeth, N. J. Filed Mar. 27, 1920. Serial No. 369,255. 11 Claims. (Cl. 88—28.)

1. An apparatus of the class described comprising a suitable frame, a picture holder and carrier mounted in said frame, means for mounting a picture strip or film in said frame, means for alternately operating said picture holder and carrier and said strip or film to bring pictures, and objects in position to be projected, and means involving movable electric contact devices operating in a solution for dissolving the separate pictures in the operation of projecting the same upon a suitable screen.

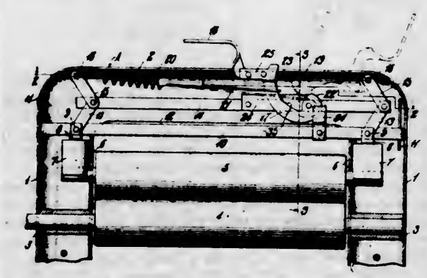


1,429,245. MARKER FOR PLANTERS. BOLIVAR LEWIS LIGHT, Rogers, Ark. Filed Feb. 28, 1921. Serial No. 448,502. 3 Claims. (Cl. 111—30.)



3. The combination with a planter embodying a check shaft, of a marker shaft mounted transversely of the planter structure, marker points carried at the extremity of the structure, an operating lever reciprocating the check shaft, an arm carried by the marker shaft having means for at times engaging the operating lever, a manually-operable detent in the path of movement of said arm adapted to maintain said arm out of engagement with said lever, and means to withdraw said manual detent to permit the arm to drop into supporting engagement with said operating lever.

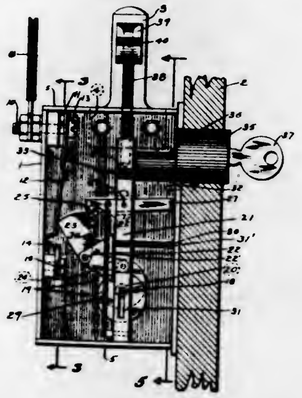
1,429,246. WRINGER. BRUNSON S. MCCUTCHEN, North Plainfield, N. J. Filed Dec. 18, 1920. Serial No. 431,601. 8 Claims. (Cl. 68—32.)



1. A wringer comprising a fixed roller and a movable roller, bearing members for the movable roller, a cross

beam connecting the bearing members, means for exerting a pressure against the movable roller for moving the movable roller toward and away from the fixed roller, said means including a longitudinally movable equalizing beam spaced from but connected with the cross beam.

1,429,247. ELECTRIC LOCK AND ALARM FOR AUTOMOBILES. SADIE L. MATHEWS, St. Louis, Mo. Filed Feb. 26, 1919. Serial No. 279,402. 23 Claims. (Cl. 177—314.)



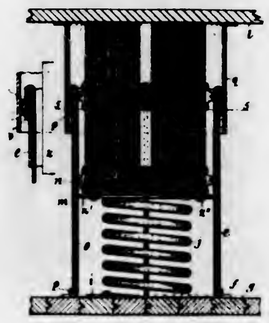
13. A safety device for automobiles, including a slidable member movable back and forth, a rotary spindle having a plurality of trippers or dogs, electrical contacts, switch mechanism including movable switch members carried toward and from the spindle by the said slide and adapted in one position of the slide to be actuated by the trippers or dogs for successively closing breaks in a circuit, means for locking the movable switch members in their engaging positions, and means for automatically releasing the switch members when the slide is moved away from said position.

1,429,248. MULTIPLEX SIGNALING SYSTEM. HAROLD S. OSBORNE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 28, 1919. Serial No. 313,817. 9 Claims. (Cl. 179—15.)



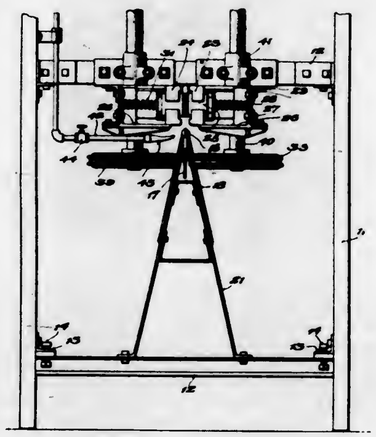
1. In a signaling system, means to transmit a plurality of carrier frequencies, means to impress low frequency signal variations upon each of said carrier frequencies, said signal variations having a frequency range constituting a substantial percentage of the carrier frequency upon which they are impressed, receiving apparatus for each carrier frequency and selective means associated with each receiving apparatus to prevent transmission of undesired frequencies to each receiving apparatus, said selective means being so proportioned and arranged as to transmit with equal freedom a band of frequencies in the neighborhood of said carrier frequency and having a width substantially equal to the range of frequencies employed in connection with said low frequency signals.

1,429,249. SEATING APPLIANCE. FRED G. PARKER, Paterson, N. J. Filed Dec. 13, 1920. Serial No. 430,196. 5 Claims. (Cl. 155—52.)



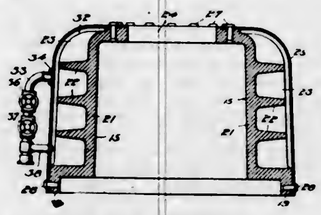
1. A seating appliance comprising opposed means including receiving and received telescoped members, one of said means including a seat and being movable up and down and the other supporting the first means, and the receiving member being inwardly angular in horizontal section and the received member having guiding projections extending outward of the general cross-sectional contour thereof and received in the angles formed by the receiving member.

1,429,250. TOBACCO-HANGING MACHINE. LONNIE J. PAYLOR, Danville, Va. Filed Oct. 23, 1920. Serial No. 418,979. 14 Claims. (Cl. 131—21.)



10. In a machine of the class described, means for supporting a hand of tobacco from its tied end in pendent position, a pointed member for penetrating the hand adjacent its tied end, means for causing relative movement between said penetrating member and said supporting means, and means for gripping the hand below the point of penetration while it is being penetrated.

1,429,251. HOT-TOP INGOT MOLD. JOSEPH I. PEYTON, Chicago, Ill., and SAMUEL E. HITT, Elyria, Ohio. Filed June 3, 1922. Serial No. 565,539. 8 Claims. (Cl. 22—147.)



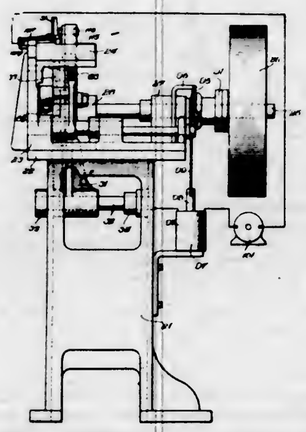
I. An ingot mold having a vacuum hot top formed by spaced walls characterized by the provision that one of said walls is replaceable and renewable.

1,429,252. COKE-OVEN WALL. OLIVIER PIETTE, Brussels, Belgium, assignor, by mesne assignments, to Belgian American Coke Ovens Corporation, Wilmington, Del., a Corporation of Delaware. Filed Nov. 6, 1918. Serial No. 261,421. 4 Claims. (Cl. 72—155.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A flue wall comprising hollow bricks forming flues, each of said bricks having a lateral projection at each side of one of its faces, the projection at one side of each brick extending a greater distance therefrom than the projection at its other side, the larger projections of two adjacent bricks contacting with each other, and the smaller projections of two adjacent bricks extending toward each other but being separated and means for maintaining said separated relation of said smaller projections.

1,429,253. WIRE BENDING AND KNOTTING MACHINE. ANTHONY RHENSTROM, Kenosha, Wis. Filed Oct. 24, 1919. Serial No. 332,960. 16 Claims. (Cl. 140—101.)



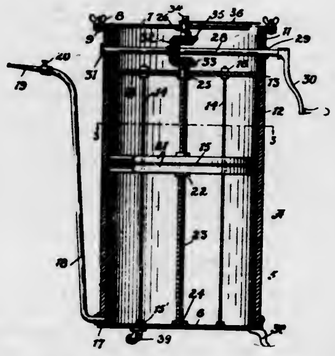
1. In a wire bending machine, the combination of a support, devices for holding the wire in position to bend on the support, a swinging bending member, power means for actuating the same and normally disconnected therefrom, and means swinging with the bending member and engageable with the power means for imparting a bending action to said bending member by automatically connecting it with said power means when the bending member has arrived at operative position.

1,429,254. OSCILLATING INTERNAL-COMBUSTION ENGINE. JOHN V. RICE, Jr., Bordentown, N. J., assignor to Rice Gas Engine Company, Bordentown, N. J., a Corporation of New Jersey. Filed July 3, 1920. Serial No. 393,946. 18 Claims. (Cl. 123—42.)



1. In an internal combustion engine, the combination of an oscillating cylinder having a compression chamber provided with a fuel inlet and having also an explosion chamber, a check valve in the compression chamber for admitting fuel during suction and preventing its escape during compression, and a piston surrounded by the explosion chamber and having one end contiguous to the compression chamber, said piston having one or more longitudinal transfer ports or passages for delivering the fuel mixture from the compression to the explosion chambers.

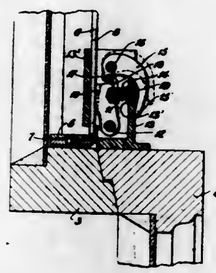
1,429,255. GREASE PUMP. JOHN F. RING, Jr., Auburn, N. Y. Filed May 13, 1920. Serial No. 381,172. 3 Claims. (Cl. 221—79.)



1. A grease dispensing device comprising a cylindrical container having an inlet and outlet opening formed in

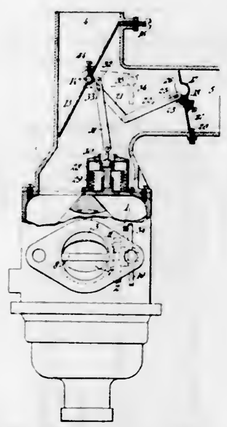
the bottom thereof, a removable partition wall carried by the upper end of the container, tie rods extending longitudinally through the container for holding the partition plate in position, a sliding plunger mounted in said container, the plunger being adapted to receive the rods whereby rotation of the plunger in the container is prevented, and means for moving the plunger up and down in the casing.

1,429,256. WINDOW-SASH-LATCHING DEVICE. HARRY R. RITCHIE, Springfield, Mass. Filed Mar. 16, 1921. Serial No. 452,810. 2 Claims. (Cl. 292—226.)



1. A window latching device, comprising in combination, a serrated bar, a casing secured to the meeting rail of the lower sash, a pivotally mounted serrated latch in the casing for engaging the bar and having a notched end to form a lip or projection, a pivotally mounted lever in the casing and having a lip or projection normally in engagement with the lip of the latch, a spring located between a wall of the casing and the latch for normally forcing the latch into locking engagement with the bar and the lever into engagement with the outer surface of the casing, for the purpose described.

1,429,257. CARBURETOR. CARL F. SCHULZ, Brooklyn, N. Y. Filed Dec. 22, 1916. Serial No. 138,322. 3 Claims. (Cl. 236—12.)



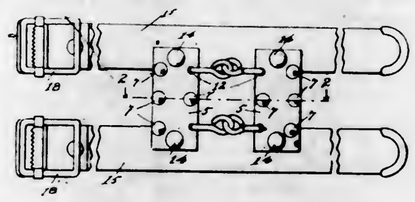
1. In an apparatus of the character described, the combination with a chamber having a hot air inlet and a cold air inlet, and valves for the respective inlets, of a thermostat associated with said chamber, a lost motion toggle connection between said hot air valve and the cold air valve, and a connection between the thermostat and said toggle connection, the connections being timed for opening the hot air valve more or less incident to increase or decrease in the temperature of the air passing said valve and for opening the cold air valve when the hot air valve has assumed a predetermined position, and the air passing through the same has acquired a predetermined temperature, and opening such cold air valve more or less incident to increase or decrease in the temperature of the combined currents of air passing both said valves, and manually operable means arranged exteriorly of said chamber for similarly actuating said valves independently of said thermostatic means.

1,429,258. DISK MILL. STEFAN STEINMETZ, Berlin, Germany. Filed Aug. 26, 1921. Serial No. 495,526. 5 Claims. (Cl. 83—8.)



1. A disk mill for grinding grain, meal, bran and the like, embodying throw wings on the outer circumference of one of the turning mill disks, said wings being tangentially arranged and extending across both disks, a spirally formed grinding chamber enclosing the wings and provided with a curved sieve, so that the wings lift the ground material leaving the disks and throw it against the sieve.

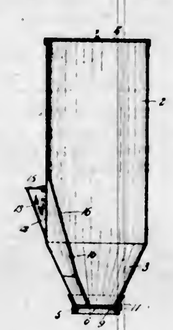
1,429,259. NONSKIDDING DEVICE FOR SHOES. ORESTES TAGLIAFERRY, Cincinnati, Ohio. Filed May 3, 1920. Serial No. 378,387. 1 Claim. (Cl. 36—63.)



A non-skidding device for shoes comprising a plurality of plates spaced apart from each other and each having holding points on its lower side, links or chains connecting said plates near each end thereof in flexible relation to each other, a pair of straps attached to the respective ends of said plates and means for detachably connecting the respective ends of each strap together in adjusted relation, substantially as set forth and for the purposes specified.

1,429,260. FOOD DISPENSER. IRWIN J. VAN FLEET, Hamilton, Ontario, Canada, assignor to William Matches, Hamilton, Ontario, Canada. Filed Oct. 24, 1921. Serial No. 509,925. 5 Claims. (Cl. 211—6.)

1. In a device of the class described, the combination with a hopper having a port in the side thereof, of a chute formed on the interior of said hopper and extending downwardly from said port to the discharge end of the



hopper, and a shut-off valve normally closing the discharge ends of the hopper and chute.

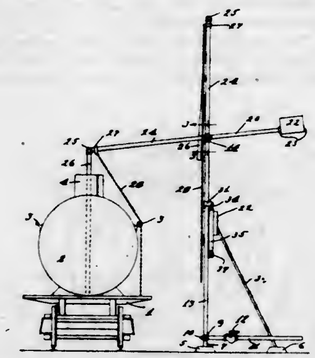
1,429,261. FLASH LIGHT OR BATTERY HAND LAMP. ARTHUR W. WELLINGTON, Waterbury, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed May 14, 1921. Serial No. 469,482. 6 Claims. (Cl. 240—8.5.)



6. In a battery hand-lamp, the combination with a tubular case, of a metal cap for the closure of the lower end thereof, a terminal-strip, an insulating-ring located within the said cap, a flanged contact-cup mounted in the said ring upon which its flange rests and formed with loops and retaining-fingers which latter are engaged with the ring for securing the cup and ring together, and a spring located within the cup and having its lower coil passed through the loops thereof, the said spring serving to connect the cup with the battery and to hold the battery in place.

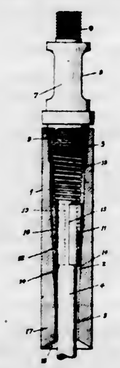
1,429,262. UNLOADING RACK. AUSTIN L. WERTZ, Dubuque, Iowa, assignor to Morrison Bros., a Corporation of Iowa. Filed Nov. 7, 1921. Serial No. 513,233. 6 Claims. (Cl. 137—78.)

3. An unloading rack of the class described comprising rigid upright pipes, rotatable crosses connected therebetween, pipes connected with said crosses, swing joints connected to said pipes, suction pipes attached to said swing joints, counterbalances on the pipes connected to said crosses adapted to retain said pipes in normally vertical position, and chains attached to said counter-



balanced pipes to pull the same into an unloading position to permit the suction pipes to project into a tank to be unloaded.

1,429,263. DEEP-WELL FISHING TOOL. JOHN A. WOLFE, Tulsa, Okla. Filed May 6, 1921. Serial No. 467,480. 1 Claim. (Cl. 294—102.)

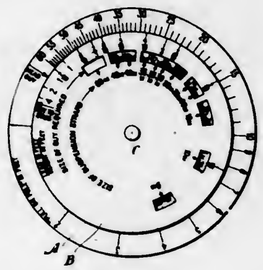


A fishing tool for deep wells, comprising a body member with an elongated tapered bore throughout the greater portion of its length, said bore decreasing in size toward the lower end and at a relatively short distance from the lower end merging into a straight bore, a pair of opposed and relatively long matching taper slips adapted to be supported by the tapered bore above the straight bore and provided with interior gripping teeth, a screw plug for entering the upper end of the body member, and a tapered coil spring located between the screw plug and the top of the pair of slips, the body member having a thickness of base at the bottom of the tool such as to resist expansion of the bottom under forces tending to pull the slips out of the bottom and cause them to escape.

1,429,264. CALCULATING GUY RULE. JOHN W. WRIGHT, Philadelphia, Pa., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 22, 1918. Serial No. 213,177. 1 Claim. (Cl. 235—84.)

A calculating device comprising a lower member provided near its edge with a set of graduations, an upper

member movable thereover and provided at its edge with a set of graduations co-operating with said graduations on the lower member, a second set of graduations on said upper member consisting of progressively increasing but nonconsecutive values depending upon the practical limitations of the problem to be solved, said upper member having a series of openings opposite the several graduations of said last named series, a second set of gradnations

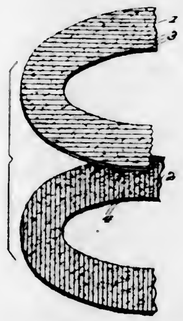


on said under member arranged to be read through said openings and also comprising a set of progressively increasing but nonconsecutive values, and marks indicating the value of such last named graduations which marks are repeated when the graduation is greater in extent than the openings through which it must be read, so that one or more marks shall always appear through the openings.

1,429,265. CONDENSATION PRODUCT OF PHENOL AND FORMALDEHYDE AND METHOD OF MAKING SAME. WILLIAM ACHTMEYER, Middletown, Conn. Filed Mar. 10, 1921. Serial No. 451,342. 13 Claims. (Cl. 260—4.)

4. The process which consists in causing a re-action between one-hundred parts of phenol and one-hundred parts of forty-percent formaldehyde solution in the presence of a solution of three to five parts of sodium tungstate and nine to twelve parts of sodium phosphate and thirty to forty parts of hot water and separating the watery layer formed from the re-action product.

1,429,266. DISK CLUTCH FACING AND PROCESS OF MAKING SAME. WILLIAM ACHTMEYER, Middletown, Conn. Filed Mar. 10, 1921. Serial No. 451,344. 7 Claims. (Cl. 154—21.)

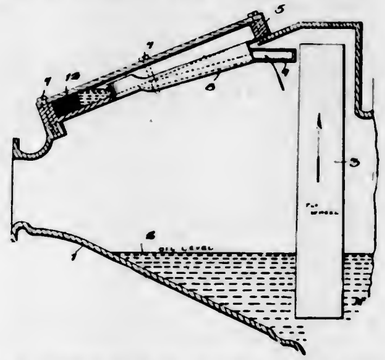


1. A clutch facing comprising two asbestos rings, the fibers of one ring lying at an angle to the fibers of the other.

1,429,267. PHENOLIC CONDENSATION PRODUCT AND METHOD OF MAKING SAME. WILLIAM ACHTMEYER, Middletown, Conn. Filed Mar. 10, 1921. Serial No. 451,345. 7 Claims. (Cl. 260—4.)

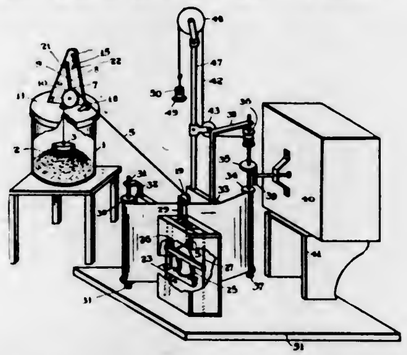
1. As a new composition of matter, a condensation product of a phenolic body and methylene-diphenyldiamine.

1,429,268. LUBRICATING SYSTEM. OSCAR CONRAD BALDWIN, Winfield, Iowa, assignor of one-half to William H. Meeker, Winfield, Iowa. Filed Nov. 28, 1921. Serial No. 518,355. 2 Claims. (Cl. 184—11.)



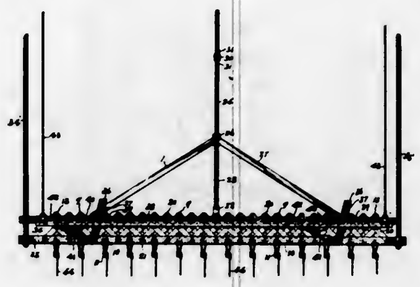
1. A transmission casing adapted to carry a lubricating oil at a convenient level, a fly wheel rotatable therein, and a cover for the casing comprising an inclined receptacle having a main and auxiliary compartment, the auxiliary compartment being inclined longitudinally above an inlet pipe, an inlet conveyor pipe arranged below the auxiliary receptacle, said inlet having a mouth arranged in close proximity to the outer circumference of the fly wheel and adapted to collect such oil as may be brought up and lubricated by the movement of the fly wheel, an outlet for the main receptacle, a screen arranged before the outlet and a cover plate for the receptacle.

1,429,269. FERMENTATION METER. ARTHUR JOHN BANKS, St. Lambert, Quebec, Canada. Filed Oct. 13, 1921. Serial No. 507,541. 1 Claim. (Cl. 234—1.)



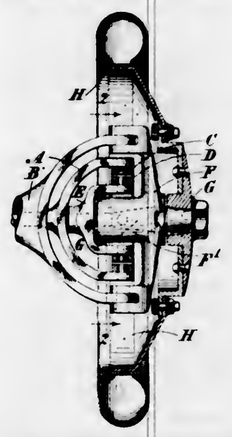
In a fermentation meter, a receptacle for the dough, a float adapted to rise and fall with the dough, a switch frame supported by the dough receptacle and including a pulley, a ratchet wheel a switch member in constant engagement with said ratchet and a cooperating fixed switch member, an electric circuit and signal and a weighted cord passing over said pulley and suitable guide.

1,429,270. PHOTOGRAPHIC-FILM CARRIER. ANTHONY A. BARBER, Arlington, N. J., assignor to B. & B. Photographic Co., Newark, N. J., a Corporation of New Jersey. Filed Sept. 17, 1921. Serial No. 501,373. 18 Claims. (Cl. 95—100.)



1. In a device of the kind described, a frame having longitudinally extensible side members, transverse supporting rods between said side members and supported by the latter so as to be comparatively widely separated one from another when said side members are opened to expanded position, and a plurality of film gripping devices connected with each supporting rod.

1,429,271. UNIVERSAL SHAFT COUPLING. GERALD BARKER, London, England. Filed Jan. 7, 1922. Serial No. 527,613. 9 Claims. (Cl. 180—48.)

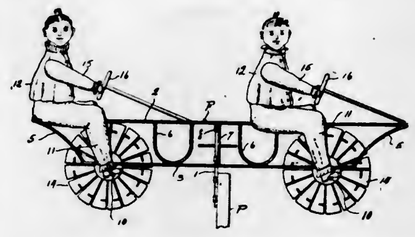


1. In a universal joint, the combination with a driving member and a gimbal-member pivotally connected thereto to turn about a pivotal axis that intersects the axis of rotation of the driving member, of a second gimbal-member pivotally connected to the first gimbal-member to turn about an axis that is at right-angles to and intersects the said pivotal axis of the first mentioned gimbal-member, and a driven member pivotally connected to the said second gimbal-member to turn about an axis that is at right-angles to the axis of pivoting of the second gimbal-member.

1,429,272. METHOD OF PURIFYING TIN-BEARING FERROTUNGSTEN. FREDERICK M. BECKET, Niagara Falls, N. Y. Filed May 26, 1920. Serial No. 384,268. 2 Claims. (Cl. 75—18.)

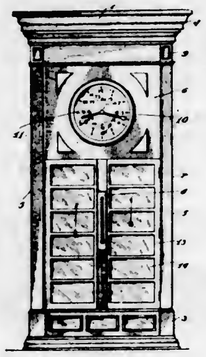
1. Method of purifying tin-bearing ferrotungsten, which consists in reacting on the comminuted alloy with an acid solvent for tin.

1,429,273. SIGN. JOHN C. BELL, Toccoa, Ga. Filed Dec. 3, 1921. Serial No. 519,762. 2 Claims. (Cl. 46—14.)



1. A device of the character described comprising a main frame including upper parallel members and lower parallel members, substantially U-shaped brace members securing the central portion of said upper and lower members, a vane having one end portion extending between and secured to the upper and lower members, said vane being substantially at right angles to the main frame and having flat side faces, the connection between the vane and upper and lower members being between the brace members; means associated with the end portion of the vane secured to the frame for supporting the frame for turning movement, and cross braces connecting the central portions of the lower members.

1,429,274. ADVERTISING DEVICE. JOSEPH ALBERT CYR BERGERON, Sherbrooke, Quebec, Canada, assignor to Joseph Wenceslas Genest, Sherbrooke, Quebec, Canada. Filed Sept. 9, 1920. Serial No. 409,121. 4 Claims. (Cl. 40—32.)

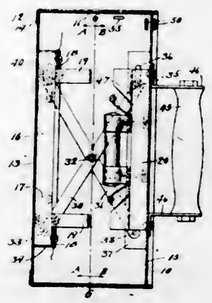


1. In a device of the character described, a cabinet, a series of rollers mounted in said cabinet and arranged in pairs, display means supported by the rollers, each of said rollers having extended trunnions therefor, gears keyed to said trunnions, a second gear meshing with the gears upon the trunnions, a clock mechanism, and an operative connection between the clock mechanism and gear which meshes with the gears upon the trunnions for rotating the rollers and actuating the display apparatus.

1,429,275. ELECTRIC SERVICE SWITCH. GEORGE A. BURNHAM, Saugus, Mass., assignor to Sears B. Condit, Brookline, Mass. Filed Aug. 2, 1918. Serial No. 247,976. 13 Claims. (Cl. 200—114.)

4. In an electric switch, an enclosing casing, a closure therefor bodily movable with respect to said casing, sta-

tionary and movable switch members arranged within said casing, said movable switch members supported by said closure and movable into closed or open position by



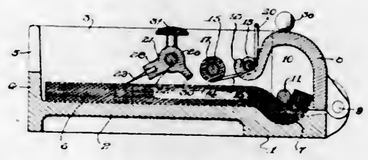
a movement of said closure, said closure arranged to maintain the casing closed during such movement and means to guide said closure for movement in a straight line within said casing.

1,429,276. TABLET FOR PRODUCING IODINE. LEWIS DAVIS, Worcester, Mass., assignor to Brewer & Company, Incorporated, a Corporation of Massachusetts. Filed Nov. 26, 1921. Serial No. 518,009. 6 Claims. Cl. 167—9.)

4. A molded solid tablet for the purpose described, comprising potassium bromide, potassium bromate, potassium iodide, and urea nitrate in substantially the proportions described.

5. A tablet for the purpose described, comprising a mixture of alkali salts of bromine, an iodide of an alkali metal, a solid acid compound capable of setting free an acid in the presence of water to decompose a bromine salt present and set free the bromine in such condition as to, in turn, decompose the iodide and set free the iodine.

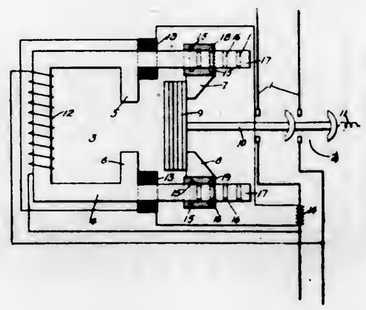
1,429,277. TICKET HOLDER AND DISPENSER. FRANK DUDEK, Omaha, Nebr. Filed Aug. 9, 1921. Serial No. 490,989. 5 Claims. (Cl. 211—29.)



2. In a ticket holder and dispenser, a body provided with a ticket supporting base, a pressure member pivotally carried by said body, a ticket pack engaging pressure rod carried by said member, tensioning means engaging said member for urging said rod in engagement with a pack of tickets, a rockable sleeve, a needle carried by said sleeve and adapted to engage a ticket and lift the ticket upon movement of the sleeve in one direction.

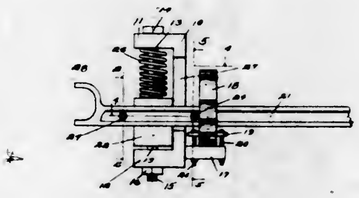
1,429,278. CIRCUIT INTERRUPTER. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 9, 1918, Serial No. 261,914. Renewed Mar. 11, 1922. Serial No. 543,088. 14 Claims. (Cl. 200—96.)

3. An electromagnet comprising a magnetizable core member, a plurality of stationary and of movable polar projections therefor disposed relatively close together to constitute two magnetic paths, an armature, and means



for actuating the armature in one direction and for so moving the movable polar projections as to permit a relatively long movement of the armature.

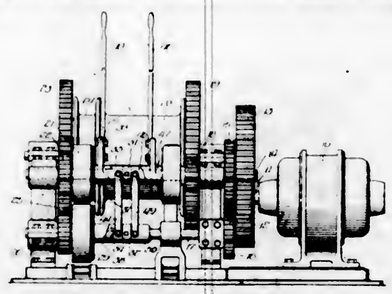
1,429,279. SPRING STRUCTURE. EDWARD FRANK FROMM, Iowa Falls, Iowa, assignor of one-half to William Dunning, Iowa Falls, Iowa. Filed Sept. 21, 1921. Serial No. 502,094. 1 Claim. (Cl. 267—28.)



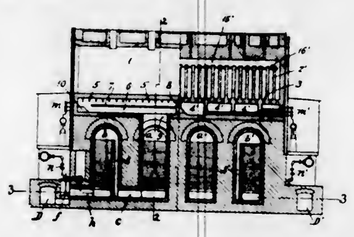
A spring structure of the class described including in combination with a leaf spring and a vehicle axle, a housing member, said housing member comprising a bracket secured to said leaf spring for arranging the housing member on one side thereof, a pair of extension members spaced from each other, having registering openings therein, a guide element mounted in said openings, a block slidably mounted on said guide element capable of sliding movement between said pair of extensions, a pair of flanges formed on said block for fastening the axle thereto and a spring arranged on said guide element between one of said pair of extensions and said block for yieldingly resisting any movement of the block in one direction, the parts being so arranged that the axle may move bodily independent of the movement of the leaf spring.

1,429,280. CLUTCH MECHANISM. JOHN F. GODFREY, Elkhart, Ind., assignor to The Godfrey Conveyor Company, Elkhart, Ind., a Corporation of Indiana. Filed May 27, 1920. Serial No. 384,583. 3 Claims. (Cl. 192—21.)

1. In clutch mechanism, the combination of a plurality of shafts, clutch members and fixed collars carried by said shafts, abutment means loosely mounted on each of said shafts between said collars and clutch members and connected to each other to prevent rotation of said abutment means on said shafts, and clutch control means cooperating with said abutment means and clutch members for operating said clutch members.

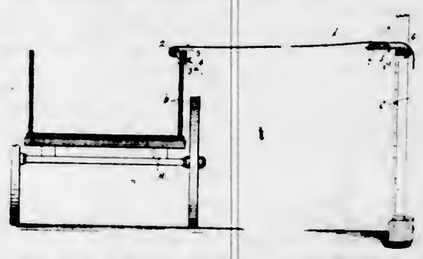


1,429,281. COKE OVEN. PAUL GOFFART, Brussels, Belgium, assignor, by mesne assignments, to Belgian American Coke Ovens Corporation, Wilmington, Delaware, a Corporation of Delaware. Filed Apr. 8, 1920. Serial No. 372,111. 4 Claims. (Cl. 202—9.)



1. In a longitudinal coke oven bench having upright heating flues operating with reversal of the draft, companion regenerators disposed lengthwise of the bench and transversely under the sole of the coking chambers, said regenerators being partitioned to form separate compartments corresponding to the individual coking chambers, and external smoke flues for connecting said regenerator compartments with a stack, each compartment of one of the companion regenerators having its lower portion connected by a substantially unobstructed upright channel with the upper portion of the corresponding compartment of the other regenerator, whereby the current of fluids will be caused to travel in the same direction in both of such connected compartments.

1,429,282. MATERIAL-SAVING DEVICE. LEONARD L GOHEEN, Sherwood, N. Dak. Filed July 5, 1921. Serial No. 482,408. 6 Claims. (Cl. 193—34.)



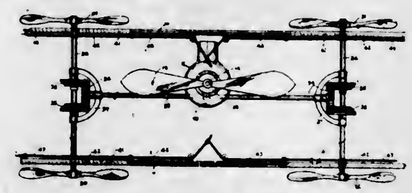
1. A material saving device comprising a flexible fabric apron, means in one end thereof for detachably connecting the same to a receptacle, means at the other end thereof for resiliently and detachably connecting the apron to the side of a storage receptacle.

1,429,283. HEADLIGHT CONTROL FOR AUTOMOBILES. FLADGET GRODI, Curtis, Ohio. Filed Aug. 28, 1919. Serial No. 320,335. 1 Claim. (Cl. 240—62.)



In combination with a motor vehicle embodying a frame, a pair of front wheels carried by the frame, steering mechanism for the wheels including a steering arm, and linkage from the arm to the wheels, of a second link adjustably connected to said arm, a pair of upright tubular standards carried in parallel relation by the frame between the wheels, a headlight mounted on each standard and provided with a tubular bearing through the standard, light connections through said tubular bearing for each headlight, a crank on one of said bearings to which the link from the steering arm is directly connected, a housing between the standards and spaced from the frame, a pinion carried by each bearing in communication with the housing between the standards, and a rack in the housing reciprocable by the pinion on the crank carrying bearing for shifting the other bearing simultaneously therewith whereby the connection for directing the headlights is from the steering mechanism and independently of receiving wheel vibration.

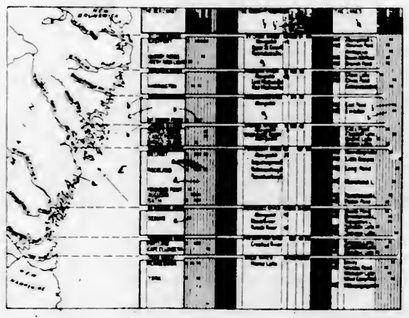
1,429,284. AEROPLANE. GEORGE HANSEN and EMIL SCHMIT, Chicago, Ill. Filed Nov. 8, 1920. Serial No. 422,536. 7 Claims. (Cl. 244—15.)



1. An aeroplane comprising a plane, a motor carried by said plane, a propeller movably mounted on the drive shaft of said motor, a clutch member carried by said propeller, a cooperating clutch member having an integral sleeve feathered on said motor shaft, a collar revolubly mounted on said motor shaft adjacent to said motor, antifriction bearings between said collar and said motor, a spring interposed between said collar and said second named clutch member and surrounding said sleeve, an operating member provided with cables revolubly mounted on said second clutch member for moving said clutch longitudinally of the shaft into and out of opera-

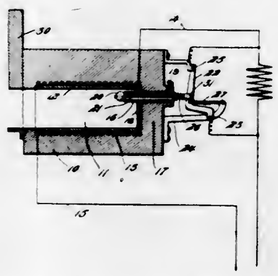
tive engagement with said first named cutch member, and antifriction bearings interposed between said operating member and said second clutch member, substantially as described.

1,429,285. WATERWAY CHART. GEORGE W. R. HARRIMAN, Malden, Mass. Original application filed June 23, 1916, Serial No. 105,524. Divided and this application filed Dec. 18, 1920. Serial No. 431,647. 8 Claims. (Cl. 283—34.)



1. A geographical chart comprising a tabulation of lakes and rivers and having elongated approximately parallel bounded spaces in a sequence corresponding to the geographical locations of the rivers in the territory treated in the chart, a column of names of lakes arranged in a conventional order, and branches from said spaces extending parallel to said column of names and having in them designating marks opposite the names of lakes which respectively feed said rivers.

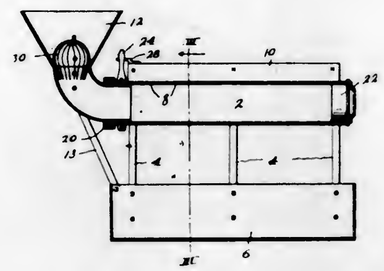
1,429,286. ELECTRIC FURNACE. CARL I. HAYES, Edgewood, R. I. Filed Mar. 2, 1921. Serial No. 448,965. 4 Claims. (Cl. 204—64.)



1. In a device of the character described, an electrically-heated work-treating chamber, a fusible element located in said chamber, a current controlling device in the heating circuit, located externally of said chamber and means whereby the fusing of said element within said chamber is caused to permit the operation of said device to affect the heating current.

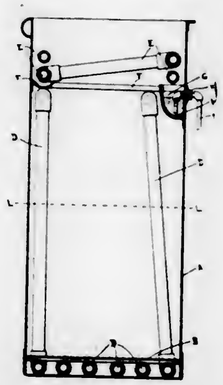
1,429,287. STOCK FEEDER. CHARLES G. HUGGINS, Adrian, Mo., assignor of one-half to Benjamin H. Huggins, Adrian, Mo. Filed Apr. 18, 1921. Serial No. 462,121. 2 Claims. (Cl. 119—56.)

1. A stock feeder consisting of a rotary conveyer having a longitudinal series of discharge ports an open trough disposed beneath said conveyer, a valve extending longitudinally of the conveyer to close the ports when in raised position, means for rotating said conveyer to lower



the ports so that the contents of said conveyer may flow through the ports into said trough, and an open hopper disposed above and at one end of the conveyer and having a swivel connection thereto.

1,429,288. ART OF TREATING WOOD AND OTHER POROUS MATERIAL. WINTWORTH V. LANDER, Newton, Mass. Filed Feb. 19, 1920. Serial No. 359,788. 4 Claims. (Cl. 99—12.)

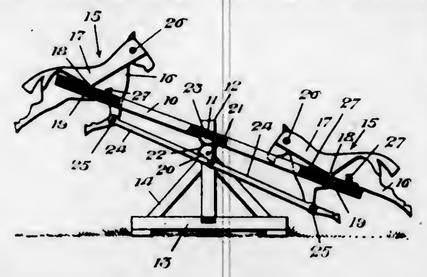


1. In impregnating porous material by filling the interstices of the material with a composition comprising an impregnating component dissolved in a volatile carrier and evaporating the volatile carrier to deposit the impregnating component in the material, the method of regulating the amount of the component deposited which comprises substantially saturating the material with the composition before evaporating the carrier and regulating the proportion of impregnating component to carrier so that when saturated with the composition the material will contain the desired amount of the impregnating component, whereby when the carrier is evaporated the desired amount of the component is deposited in the material.

1,429,289. SEESAW. ERASTUS M. MAXWELL and IRA K. HEARN, Cardinal, Va. Filed May 17, 1921. Serial No. 470,406. 3 Claims. (Cl. 46—22.)

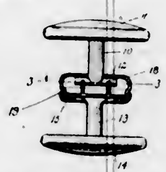
1. A device of the character described comprising a standard, a bar fulcrumed to the standard for oscillation about an axis, a member also fulcrumed to the

standard for oscillation about another axis, said member and bar having gear segments meshing with one another



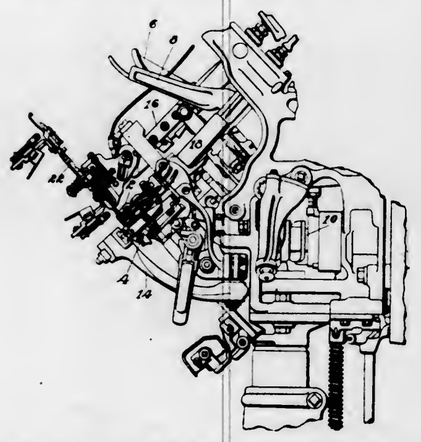
for oscillating said bar when said member is oscillated, and operating means carried by the bar connected to said member.

1,429,290. CUFF BUTTON. MAX C. MILLER, Cumberland Hill, R. I., assignor to Jerome Fleischer, Providence, R. I. Filed Nov. 10, 1919. Serial No. 336,881. 3 Claims. (Cl. 24—102.)



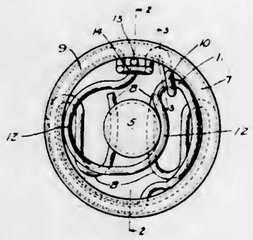
1. A separable cuff button comprising a stud member, a socket member, and a spring held against relative rotation in said socket member and provided with a recess for receiving and releasably engaging the stud end of the opposite member when said stud is passed into the socket and rotated a portion of a revolution.

1,429,291. MACHINE FOR SHAPING UPPERS OVER LASTS. DAVID A. MOYER, Birdsboro, Pa., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 24, 1920. Serial No. 405,632. 28 Claims. (Cl. 12—4.)



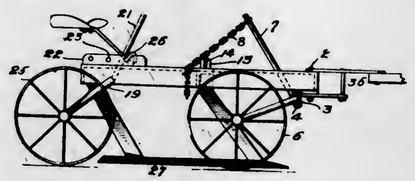
1. In a machine of the class described, the combination with shoe positioning means and overlaying means relatively movable in a direction substantially parallel to the plane of the shoe bottom to lay the margin of the upper inwardly over the sole of the shoe, of a device arranged for engagement with the shoe and to be rendered operative by such relative movement of the shoe and the overlaying means to produce compression between the shoe and said means in a direction transverse to the plane of the shoe bottom in the overlaying operation.

1,429,292. GARMENT FASTENER. ROBERT J. MULVEY, Chicago, Ill. Filed Mar. 21, 1921. Serial No. 453,971. 6 Claims. (Cl. 24—218.)



1. In a fastener, the combination with a disc having a socket therein and slots in the walls of said socket on opposite sides thereon; a securing member associated with said disc, said securing member being tortuously bent across the back of said disc and having its opposite ends engaging said slots; and a fastening member associated with said disc, said member being adapted to be threaded through the cloth of a garment for releasably fastening said fastener in position, there being a hook on each end of said fastening member for holding said fastener in such position.

1,429,293. THISTLE ERADICATOR. OLOF MURK, Warren, Minn. Filed Jan. 27, 1922. Serial No. 532,214. 6 Claims. (Cl. 55—60.)

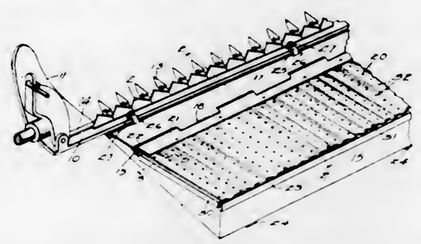


1. In a machine of the class described, the combination of a single-piece main frame, a knife device secured to said main frame within its side edges, and axles provided with wheels supporting said main frame.

1,429,294. SEED-COLLECTOR DEVICE FOR MOWERS. GEORGE I. NEWBERRY, Fulton, Ky. Filed Feb. 18, 1922. Serial No. 537,485. 1 Claim. (Cl. 56—207.)

A seed collecting device for mowing machines comprising a pan provided with means to enable it to be fastened to the rear edge of the finger bar thereof, and having a hinged cover therefor, said pan having its forward edge flattened to be received below the rear edge of the finger bar for closing any gap between it and the finger bar, said cover being provided with corrugations, the corrugations running from front to rear, the valley of the corrugations being provided with a plurality of openings

for permitting seed falling from the grain to pass through said openings into said pan while the straw of the grain

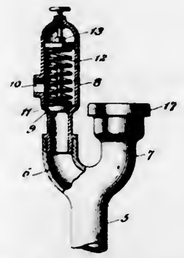


will slide over the upper portion of the corrugations without interfering with the seed in valleys of the corrugations, all for the purposes stated.

1,429,295. PROTECTED FABRIC. GEORGE J. NIKOLAS, Chicago, Ill. Filed Nov. 21, 1918. Serial No. 263,614. 2 Claims. (Cl. 91—68.)

1. As a new article of manufacture, a layer of fabric carrying a protective coating of varnish material containing intimately and uniformly incorporated impalpably fine particles of fireproofing salts, such salts being insoluble in solvents wherein such varnish material is soluble.

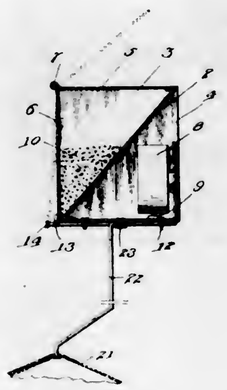
1,429,296. AUXILIARY PRESSURE-RELIEF DEVICE FOR STEAM BOILERS. CASIN W. OBERT, Mount Vernon, N. Y. Filed Jan. 27, 1920. Serial No. 354,329. 2 Claims. (Cl. 220—89.)



2. In a pressure device, a branch pipe having a relief valve in one branch of the pipe, a rupturable diaphragm of vitreous material in the other branch, a cushioning ring extending continuously about the lower edge of the diaphragm and resting between the diaphragm and the branch pipe, a second ring of cushioning material lying upon the upper edge of the diaphragm and extending continuously thereround, and a confining flanged cap having threaded engagement with the branch pipe and having a flange extending continuously about upon the upper cushioning ring for firmly holding the disk in place without subjecting it to compressive strains.

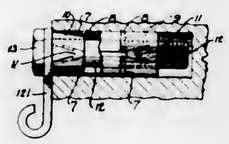
1,429,297. AUTOMATIC STOCK-FEEDING DEVICE. EMMETT J. O'NEILL and HUBERT T. WHITE, Fairmont, W. Va. Filed Feb. 2, 1922. Serial No. 533,632. 2 Claims. (Cl. 119—56.)

1. A poultry feeding device comprising a housing diagonally divided into a plurality of compartments, an outwardly swinging door pivoted to one side of the housing and forming a wall for one of said compartments, a rotatable rod secured to and disposed transversely of the bottom of said housing having a right angularly arranged finger thereon in proximity to its outer extremity normally engaged with the lower portion of said door for retaining the same in closed position and a second finger on its outer extremity spaced from the first finger and arranged at substantially right angles thereto adapted to engage said lower portion of the door subsequent to



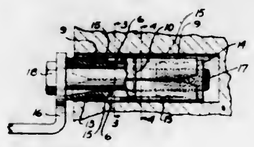
disengagement of the first finger therefrom, the opposite extremity of said rod having a substantially right angular arm arranged thereon and time controlled mechanism arranged in the remaining compartment of said housing adapted to impart movement to said right angular arm for effecting partial rotation of the transverse rod.

1,429,298. BOLT ANCHOR. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall. Filed Sept. 23, 1921. Serial No. 502,765. 2 Claims. (Cl. 85—2.4.)



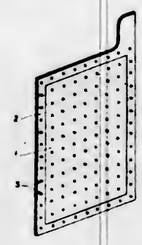
1. A new article of manufacture for an expansion bolt comprising a steel tubular nut expanded at one end to form a frustum of a cone and provided with screw-threads and with a lug on its unexpanded portion.

1,429,299. BOLT ANCHOR. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall. Filed Sept. 23, 1921. Serial No. 502,766. 5 Claims. (Cl. 85—24.)



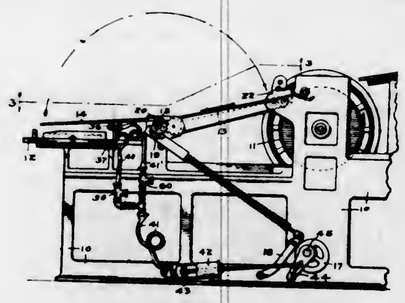
1. The combination in an expansion bolt of expansible shells, a collar, a nut, and cooperating means between the shells, collar and nut and integral with the collar and nut to secure them together.

1,429,300. NEGATIVE PLATE FOR ELECTRIC ACCUMULATORS AND THE MANUFACTURE THEREOF. ADOLFO POUCHAIN, Turin, Italy. Filed June 22, 1920. Serial No. 390,917. 4 Claims. (Cl. 204—29.)



1. A method of reducing the electro-chemical actions on the borders of the active material of negative plates for electric accumulators, consisting in perforating the borders of the plate, and applying a layer of insulating varnish on the opposite faces of the plate along said borders so that the varnish will be caused to enter the perforations therein and form keys for connecting the two layers together.

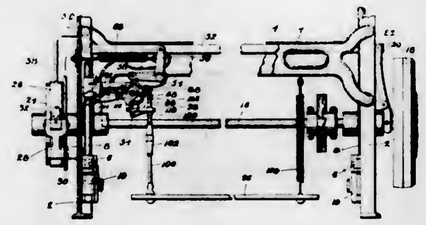
1,429,301. PNEUMATIC PAPER CONTROL FOR PRINTING PRESSES. CHARLES C. SCHUTTE, Indianapolis, Ind. Filed Feb. 28, 1921. Serial No. 448,419. 2 Claims. (Cl. 271—74.)



1. In a printing press, the combination with an impression cylinder, and a reciprocating type-bed, of a gas conductor pipe extending parallel with the impression cylinder and transversely of the path of travel of the sheets of printed paper, for subjecting the latter to a gas flame, an air conductor pipe extending parallel and slightly above the gas pipe and provided with a series of downwardly disposed air discharge openings for discharging air across the heat waves generated by the gas flame for effecting an increased range and distribution of the heat across the surface of the printed sheets of paper.

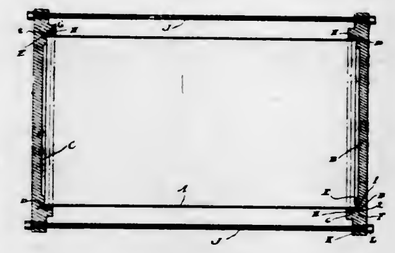
1,429,302. STARTING AND STOPPING MECHANISM FOR PRESSES. WILLIAM C. STEWART, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 15, 1916. Serial No. 97,583. 20 Claims. (Cl. 192—116.)

1. In a machine of the class described, the combination with driven mechanism, driving means, and a clutch for connecting the driven mechanism to the driving means, of clutch operating means comprising a member movable in successive steps to cause the clutch to be alternately set and released, means for operating said member, the member being movable also relatively to its operating



means, and means for positively locking the member against such movement relatively to its operating means as would cause an operation of the clutch.

1,429,303. FLUID-TIGHT JOINT. WILLIAM HENRY SUMBLING, Toronto, Ontario, Canada, assignor to Sumbling Machinery Company, Limited, Toronto, Ontario, Canada. Filed June 7, 1920. Serial No. 387,120. 5 Claims. (Cl. 220—55.)

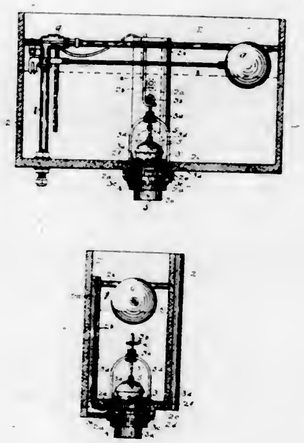


4. The combination of a pair of closure-members each provided with a groove on its inner side each having an inner outward sloping wall, and a grooved wall facing said sloping wall; a body-portion having its ends placed in said grooves directly in thrust contact each with its associated sloping wall; a packing in the groove formed in said other walls and located between said closure-members and the side of said body-portion; the said sloping walls when said closure-members and body-portion are held in co-operative relationship outwardly displacing the said ends so as to jam said packing in place, and tie-rods mounted in said closure-members and adapted to hold the same and said body-portion in co-operative relationship, for the purpose specified.

1,429,304. FLUSH TANK. BERT O. TILDEN, Trenton, N. J., assignor to B. O. T. Mfg. Co., Trenton, N. J., a Corporation of New Jersey. Filed Nov. 25, 1921. Serial No. 517,696. 3 Claims. (Cl. 4-5.)

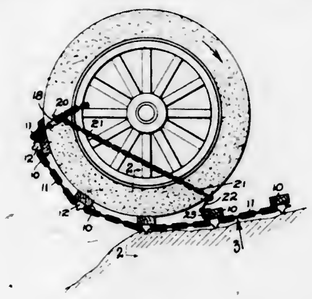
1. A flush tank having a flushing opening in its bottom, said opening being surrounded by an annular recess and by the annular terminal of an overflow passage which discharges into the said opening, one arm of said overflow passage extending rearwardly beneath the bottom of the tank and another arm of said passage extending upwardly between integral portions of the rear wall of the tank to a point above the normal level of the flushing water, a bushing disposed in said flushing opening having an annular flange adapted to be seated in said recess, and having radial apertures facing the said annular ter-

minal, the periphery of said flange being provided with radial sockets, a flush valve adapted to be seated in the open top of said bushing, and a cage inclosing said valve,



said cage having a plurality of arched members whose lower ends enter said radial sockets, the top of said cage comprising a guide for operatively supporting the stem of the valve.

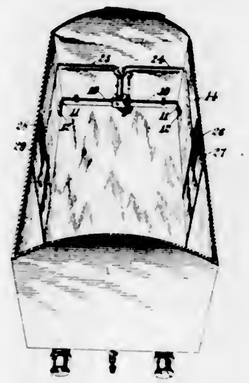
1,429,305. AUTOMOBILE EXTRICATING ATTACHMENT. ADRIAN VAN LEEUWEN, Worcester, Mass. Filed Nov. 1, 1920. Serial No. 420,999. 5 Claims. (Cl. 238—14.)



1. In an attachment for a vehicle wheel for the purpose described, the combination of a series of parallel bars spaced apart, chains for flexibly connecting them together, projections on the lower surfaces of the bars near the ends for engaging the roadway, said projections having passages therethrough for the reception of said chains, and means for preventing longitudinal motion of the chains in said passages.

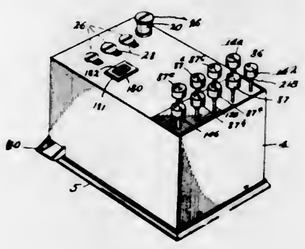
1,429,306. APPARATUS FOR PREVENTING THEFT FROM CLOSED COMPARTMENTS. LEONARD EDWARD VINING, Lucknow, India. Filed Dec. 13, 1921. Serial No. 522,053. 12 Claims. (Cl. 116—114.)

1. Theft-preventing apparatus for a closed compartment comprising in combination an indicator, a line controlling the indicator and operatively connected with the means of entrance to the compartment in such manner that the line moves the indicator from the "all right" position should the means of entrance be opened but will not return it on the closing of such means of entrance, and a movable cover for a trip-setting-opening in the wall of



the compartment, which cover carries a one-way engaging finger so situated relatively to the said line that it trails across it when the cover is moved in the closing direction, but interlocks with it when the cover is moved in the opening direction, for the purpose described.

1,429,307. CHANGE-MAKING AND REGISTERING MACHINE. ERNEST D. VOTAW, Kansas City, Mo. Filed May 27, 1920. Serial No. 384,764. 8 Claims. (Cl. 133—1.)

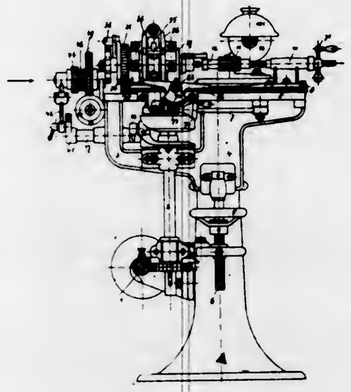


1. In a machine of the character described, a plurality of coin magazines, coin ejectors associated with the respective magazines, a plurality of levers a number of which are superimposed and all of which are adapted to advance said ejectors for a working stroke, horizontally-disposed bars arranged within the same plane and having shoulders of different depths for selectively actuating said levers, and key-controlled means for actuating said bars.

1,429,308. TOOL-GRINDING MACHINE. FRANZ LOUIS WÄCHTLER, Grossenhain, Germany. Filed Oct. 16, 1919. Serial No. 331,213. 14 Claims. (Cl. 51—225.)

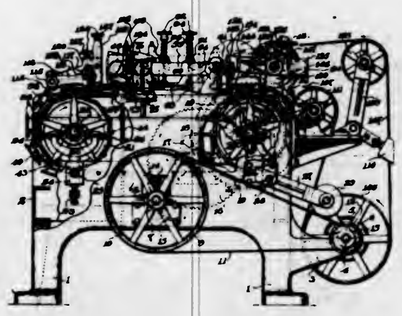
1. In a tool grinding machine in which the tool is fitted on a mandrel held between two center points fitted to a

reciprocating slide, which moves the tool past a stationarily revolving grinding wheel, the combination of a freely revolubly journalled spindle carrying the one of said center points, a flexible element wound around said



spindle, a tensioning element connected to one end of said flexible element, the other end of said flexible element attached to a controlling member shiftable crosswise to the axis of the said spindle.

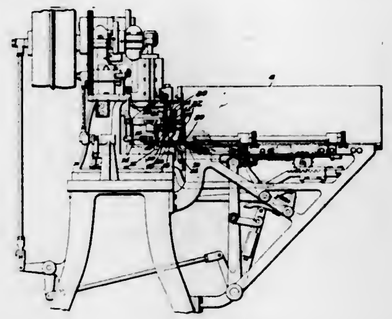
1,429,309. WOOD-HEEL-SEATING MACHINE. LELAND B. WHIPPLE, Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Aug. 4, 1919. Serial No. 315,082. 46 Claims. (Cl. 12—46.)



1. In a machine for forming concaved heel seats in the heels of boots and shoes, the combination of cutters mounted to cut in a direction longitudinally of the top of the heel to successively concave separate portions extending from the breast to the back of the heel, and means for relatively traversing the cutters and heel during the operation of the cutters to cause them to act successively upon the heel.

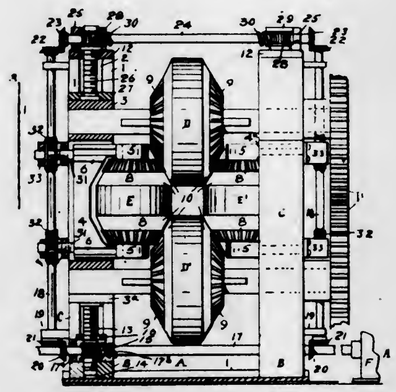
1,429,310. STOCK-CUTTING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 21, 1919. Serial No. 284,170. 22 Claims. (Cl. 164—48.)

1. A stock-cutting machine having, in combination, means for cutting pieces successively from a sheet of material, and means for displacing in the plane of the sheet



being operated upon the portion remaining after the last piece has been cut from said sheet.

1,429,311. BLOOMING MILL. JOHN L. ALBIEZ, Pittsburgh, Pa. Filed Sept. 21, 1920. Serial No. 411,742. 6 Claims. (Cl. 80—34.)

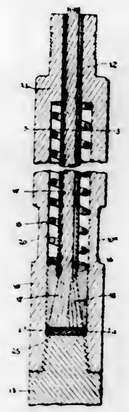


6. In a blooming mill, the combination of a frame, housings in said frame slidable in vertical planes, other housings in said frame slidable in horizontal planes, a pair of horizontal rolls journaled in said first named housings, a pair of vertical rolls journaled in said second named housings, the necks of all of said rolls being provided with beveled gear teeth which intermesh whereby said rolls rotate in unison, means for applying rotative power to one of said pairs of rolls, and common means for sliding said housings whereby said rolls may be shifted in unison in relation to a common center.

1,429,312. WIRE-LINE SOCKET. CECIL VERNON AUGENSTEIN, Macksburg, Ohio. Filed Mar. 22, 1921. Serial No. 454,410. 1 Claim. (Cl. 24—123.)

A wire line socket comprising a body portion having a head at one end and having its other end open and internally threaded, a spring arranged in said body portion and abutting the head at one end, a follower operating in said body portion and abutting the other end of the

spring and adapted for connection with the wire line cable, a coupling member having threaded engagement



with the lower end of the body portion and a cushioning disk arranged between the coupling member and the follower.

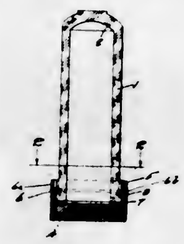
1,429,313. TRANSPARENT CAP FOR TIRE-STEM PRESSURE GAUGES. ALFRED BADOWSKI, Charleston, W. Va., assignor to Tirometer Valve Corporation of America, Charleston, W. Va., a Corporation of West Virginia. Filed Oct. 19, 1921. Serial No. 508,736. 4 Claims. (Cl. 152—12.)



1. A transparent cap for tire stem pressure gauges comprising a transparent tube having a closure at the outer end and open at the bottom end and having a circumferentially extending shoulder at the bottom end with an axially extending slot therethrough; and a metal base having an upwardly extending projection having a radially extending shoulder engaging the shoulder on the tube, the radially extending shoulder on the projection being of a size permitting the assembly of the tube and base by passing the last-mentioned shoulder through the slot in the shoulder on the tube.

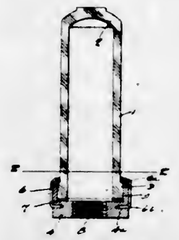
1,429,314. TRANSPARENT CAP FOR TIRE-STEM PRESSURE GAUGES. ALFRED BADOWSKI, Charleston, W. Va., assignor to Tirometer Valve Corporation of America, Charleston, W. Va., a Corporation of West Virginia. Filed Oct. 19, 1921. Serial No. 508,737. 3 Claims. (Cl. 152—12.)

1. A transparent cap for tire stem pressure gauges comprising a transparent tube having a closure at the top and open at the bottom and having a shoulder at the bottom; a base having an upward projection overlapping the shoulder on the tube and having an undercut shoulder thereon, one of said shoulders having axial slots; and a locking ring having projections adapted to be inserted through said slots, said ring when turned relatively to said shoulders



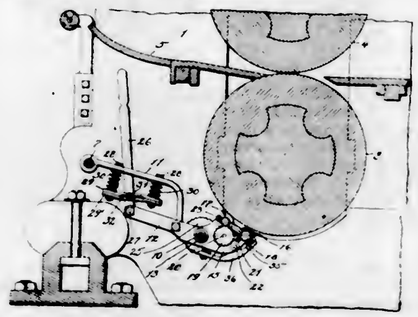
resting on the shoulder of the tube and under the shoulder on the projection of the base thus locking the tube in place on the base.

1,429,315. TRANSPARENT CAP FOR TIRE-STEM PRESSURE GAUGES. ALFRED BADOWSKI, Charleston, W. Va., assignor to Tirometer Valve Corporation of America, Charleston, W. Va., a Corporation of West Virginia. Filed Oct. 19, 1921. Serial No. 508,738. 5 Claims. (Cl. 152—12.)



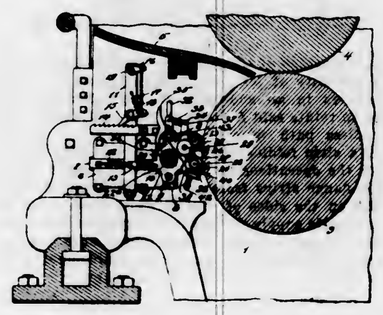
5. A transparent cap for tire stem pressure gauges comprising a transparent tube having a closure at the top and open at the bottom and having an exterior shoulder at its bottom; a metal base having an annular projection centering the tube; and a wire securing means encircling the tube over the shoulder and secured to the base.

1,429,316. ROLLER SURFACING OR POLISHING MACHINE. LOUIS BAGI, Granite City, Ill., assignor of one-half to John Makay, Granite City, Ill. Filed Jan. 18, 1921. Serial No. 438,144. 6 Claims. (Cl. 51—254.)



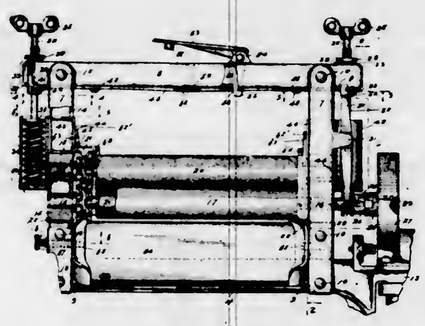
1. A roll polishing machine comprising a polishing-roller, in combination with means including a driving-roller adapted for driven frictional engagement with the roll being acted upon for simultaneously rotating the polishing-roller and causing the polishing-roller to travel lengthwise reciprocatorily along the roll being acted upon, and means for simultaneously shifting the drifting-roller and the polishing-roller into, respectively, yielding driven engagement and yielding polishing engagement with the roll being acted upon.

1,429,317. ROLLER SURFACING OR POLISHING MACHINE. LOUIS BAGI, Granite City, Ill., assignor of one-half to John Makay, Granite City, Ill. Filed July 28, 1921. Serial No. 488,224. 10 Claims. (Cl. 51—254.)



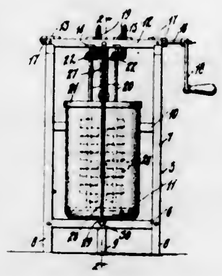
1. A roll-polishing-machine comprising a frame slidably shiftable relatively to the roll to be operated upon, a roller carried for rotation by the frame and adapted for frictional engagement with said roll, and means for slidably shifting the frame to carry the roller into driven frictional engagement with said roll.

1,429,318. CLOTHES WRINGER. EUGENE F. BEEBE, Minneapolis, Minn. Filed Feb. 7, 1921. Serial No. 443,181. 11 Claims. (Cl. 68—32.)



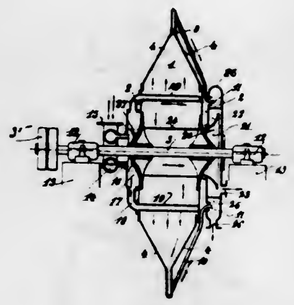
11. A wringer frame divided in a plane thereof, co-operating rolls, pressure devices for one of the rolls, means for driving one of the rolls including a clutch, a releasing bar for holding the pressure devices under tension and for releasing the same, a lever fulcrum stud on one of the sections of the frame, and a lever adapted to be held on said stud and interlocked with the releasing bar and clutch when the sections of the frame are assembled.

1,429,319. CHURN. JOHN F. BERTRAM, St. Louis, Mo. Filed June 9, 1920. Serial No. 387,681. 1 Claim. (Cl. 259—104.)



A churn comprising a supporting frame having sides to prevent lateral displacement of a receptacle placed within the frame, said frame having a side normally open through which the receptacle may be removed, a hinged cover for the frame for supporting a driving mechanism adapted to drive an agitating means spaced in the receptacle, and a resilient member connected to said cover and adapted to be stretched across said open side of the frame to prevent accidental displacement of the receptacle through the open side of the frame and to retain the driving means in engagement with the agitating means.

1,429,320. APPARATUS FOR SEPARATING SOLIDS FROM LIQUIDS. CHARLES BOUILLON, Paris, France. Filed Feb. 21, 1922. Serial No. 538,344. 9 Claims. (Cl. 233—14.)

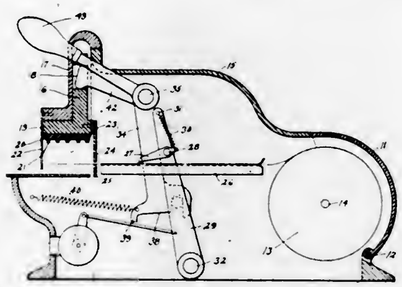


1. A continuous rotary apparatus for clarifying liquids comprising a central container, a series of tapering chambers forming continuations of the container, means located near to the axis of the apparatus for the outlet of clarified liquid from the container, means for the outlet of enriched liquid at the ends of the tapering chambers, means for the inlet of liquid located intermediate of the outlet for clarified liquid and the outlets for enriched liquid, the inlet means to the container and the outlet means from the tapering chambers being adapted to allow the inlet of more liquid to the container than can pass out from the tapering chambers.

1,429,321. STAMP-AFFIXING MACHINE. EUGENE F. BOWEN and EPHRIAM J. SCOTT, Providence, R. I. Filed Sept. 17, 1920. Serial No. 410,905. 2 Claims. (Cl. 216—28.)

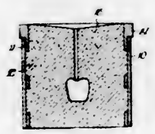
1. In a stamp affixing machine, means for engaging the stamp strip to advance the same, a pivoted arm carrying said engaging means, a spring for giving said arm its feed-

ing stroke, a pivoted actuating leg engaging said carrier arm to return it after its feeding stroke, a plunger, a knife



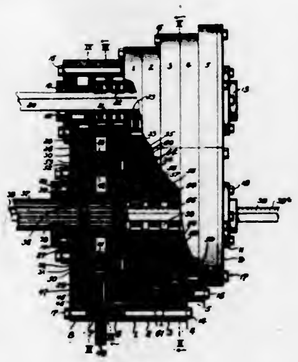
carried thereby, an arm connected to said actuating leg and engaging said plunger, and a hand-operating lever connected to operate both said arm and leg.

1,429,322. DENTAL CASTING RING. ALLEN O. BROPHY, Oak Park, Ill. Filed Aug. 8, 1921. Serial No. 490,586. 8 Claims. (Cl. 22—97.)



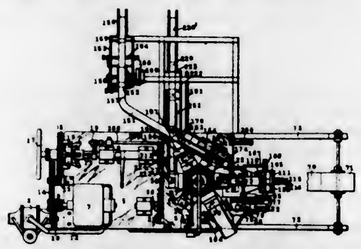
1. A casting flask comprising a perforated investment holder, and removable means for closing the perforations therein to prevent egress of material therethrough.

1,429,323. TRANSMISSION MECHANISM. MERTON V. BROWN, Detroit, Mich. Filed May 17, 1920. Serial No. 381,804. 10 Claims. (Cl. 74—59.)



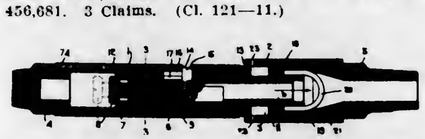
7. In a transmission mechanism by which direct and reverse drive and variable speeds may be attained, power transmitting gear wheels, and closely assembled tangentially disposed pawls embodied in some of said gear wheels to permit of certain gear wheels transmitting power independent of others.

1,429,324. DRUM MACHINE. HAROLD CARLE, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada, a Corporation of the Province of Ontario, Dominion of Canada. Filed June 29, 1921. Serial No. 481,233. 42 Claims. (Cl. 93—44.)



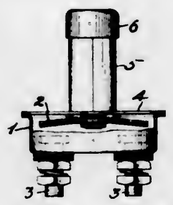
1. In a machine of the character described, in combination, a plurality of formers, means adapted to translate said formers in an endless path intermittently, means adapted to rotate said formers at their stations of rest in said endless path to coil strips thereon, strip supply devices, a strip folding device, and means adapted to coordinate the operations of the before-mentioned elements to cause flange strips from one of said supply devices to be coiled on the sides of said formers, head strips from another of said supply devices to be applied across ends of said formers and their margins folded onto the coiled strips and flange strips from another of said supply devices to be coiled over the previous'y coiled strips.

1,429,325. AUTOMATIC CONTROL FOR COMPRESSED-AIR-ACTUATED MACHINES. CHARLES C. CHENEY, Charlestown, Mass. Filed Mar. 29, 1921. Serial No. 456,681. 3 Claims. (Cl. 121—11.)



1. In an automatic control valve for compressed-air-actuated machines, the combination with a tubular housing, of a tubular valve seat member slidably mounted within the housing and having a valve seat at one end, a valve to close said valve seat, and manually operable means to open the valve away from the valve seat, said valve seat member being constructed so that it will be moved relative to the housing to carry the valve seat against the opened valve whenever a pressure builds up at the discharge end of the housing.

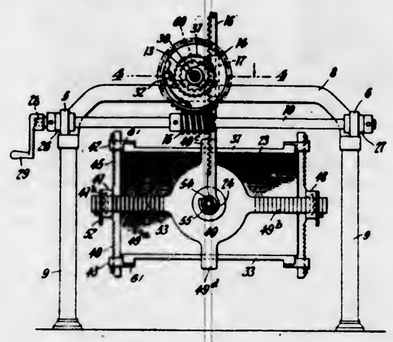
1,429,326. SWITCH. CHARLES F. CUNO, Meriden, Conn. Filed Feb. 12, 1920. Serial No. 358,043. 1 Claim. (Cl. 200—159.)



In a switch of the character described, a housing, a switch mechanism contained therein, a cover plate there-

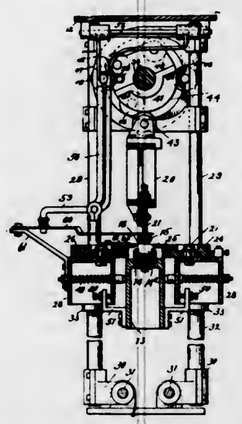
for, a tube formed from sheet metal and having a seam on one side, said tube being mounted on said cover plate, lugs on the lower end of said tube for interconnection with the cover plate, certain of said lugs being formed on opposite sides of the seam and adjacent thereto whereby when said tube is connected to said cover plate said lugs will hold said tube against opening at the lower end, a slidable cap mounted on the other end and overstanding the outside of the tube to prevent the latter from opening at the seam on that end.

1,429,327. TURNOVER MECHANISM. GEORGE J. DANIELL, Brooklyn, N. Y., assignor of one-half to Joseph F. Stewart, New York, N. Y. Filed Apr. 22, 1921. Serial No. 463,470. 11 Claims. (Cl. 214—130.)



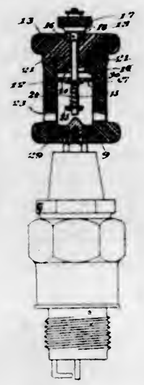
1. In turn-over mechanism for a stack of sheets the combination of means for clamping together the stack of sheets, trunnions on said clamping-together means, means for rotatably supporting said trunnions whereby the stack may be turned over, and means for raising and lowering said trunnion supporting means.

1,429,328. TUBING MACHINE. DAVID F. DOMIZI, Cleveland, Ohio. Filed Aug. 7, 1919. Serial No. 315,845. 7 Claims. (Cl. 113—34.)



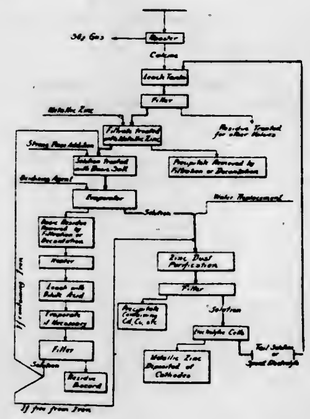
1. In a tubing machine having a die and a mandrel adapted to be received by the die, and about which flat stock is adapted to be formed into a tube, folding blades for folding stock about the mandrel, a presser member for pressing the edges of the stock into a seam, swinging members carrying the presser blades, each member being pivoted at one end and carrying the associated folding blade intermediate its ends, and means operating on the free ends of the swinging members to move the free ends inwardly for the folding operation.

1,429,329. ATTACHMENT FOR SPARK PLUGS. STUART DONALDSON, Carnegie, Pa. Filed Apr. 1, 1921. Serial No. 457,783. 5 Claims. (Cl. 175—183.)



4. An attachment for spark plugs, comprising a supporting member having recesses at one end, means at the other end of said member for attaching the same to a spark plug, an electric rod, a slidable and rotatable support for the electrode rod seating on the recessed end of the supporting member, and provided with lugs to seat in the recesses, said lugs and recesses varying in length and depth to gage the extent of the sliding movement of the electrode rod support in a direction to advance and to retract the electrode rod relative to the main terminal rod of the spark plug, and a spring coiled around the electrode rod for holding the support thereof seated, said rod having an abutment against which one end of the spring bears, and the supporting member carrying an abutment for the other end of the spring.

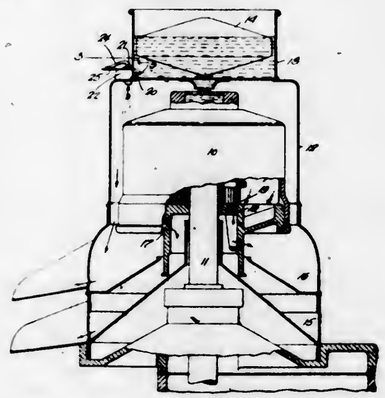
1,429,330. PROCESS OF RECOVERING ZINC FROM COMPLEX ORES. JOHN THAYER ELLSWORTH, Park City, Utah. Filed July 12, 1921. Serial No. 484,195. 12 Claims. (Cl. 204—15.)



2. In the method of recovering zinc from zinciferous materials involving the treatment of the zinciferous ma-

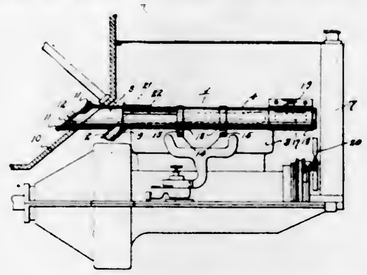
terial with a cyclic solvent solution and electrodeposition of zinc therefrom, concentrating the solution prior to electrolysis and removing therefrom such an amount of soluble salts that when the so concentrated solution is appropriately diluted for electrolysis the concentration of soluble salts therein will be insufficient to produce supersaturation of the solution at any subsequent stage in its cycle, and appropriately diluting the so concentrated solution for electrolysis.

1,429,331. REGULATOR FOR CENTRIFUGAL SEPARATORS. HARVEY FELDMEIER, Little Falls, N. Y., assignor to D. H. Burrell & Co., Inc., Little Falls, N. Y. Filed Nov. 14, 1921. Serial No. 514,897. 13 Claims. (Cl. 233—4.)



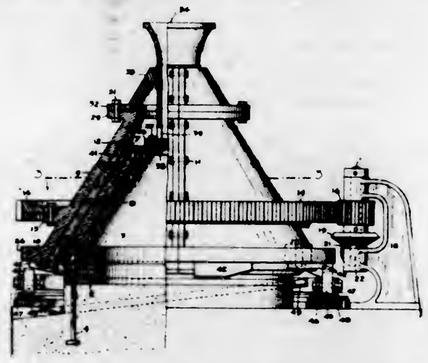
1. In a centrifugal liquid separator having a rotary separating element, a by-pass device arranged to deliver unseparated liquid from the liquid supply for the separating element into one of the separated liquids discharging from the separating element, for altering the said separated liquid.

1,429,332. AUTOMOBILE HEATER. JOSEPH B. FRANCISCO, Columbus, Ohio. Filed Mar. 10, 1920. Serial No. 364,723. 1 Claim. (Cl. 237—12.3.)



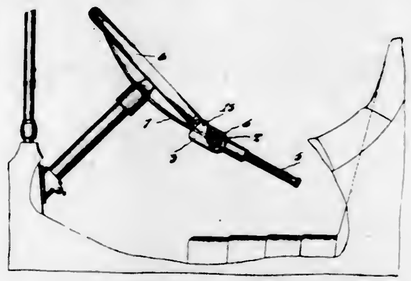
An automobile heater comprising a tube adapted to encircle the exhaust manifold of an internal combustion engine, bowed resilient bands disposed transversely in the tube and having their ends fixed to the tube, said bands being adapted to yieldably engage the exhaust manifold, the ends of the tube being open to permit passage of air therethrough, said tube being split longitudinally and having the edges overlapped, and means for drawing said edges together whereby the bands yieldably engage the manifold to hold the same in clamped relation with said manifold.

1,429,333. ROTARY PULVERIZER. WILLIAM H. FULCHER, Oakland, Calif. Filed Nov. 14, 1921. Serial No. 515,128. 4 Claims. (Cl. 83—10.)



1. The combination of a conical body, a conical shell surrounding said body, means for feeding material into the space between said shell and body, means for rotating said shell, elements depending from said shell, and arranged to move in a circular path as the shell rotates, rollers rolling in a circular path immediately beneath that of said elements, and adapted to be engaged by said elements to elevate said shell, and means for connecting said rollers whereby they roll at constant distances apart.

1,429,334. AUTOMOBILE LOCK. FREDERICK M. FURBER, Revere, Mass. Filed Nov. 5, 1920. Serial No. 421,949. 9 Claims. (Cl. 70—129.)

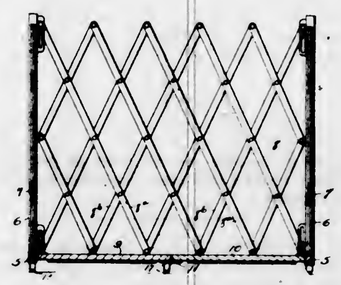


1. A locking device for the steering wheel of an automobile comprising, in combination, a body part carrying means whereby it may be removably locked in a relatively fixed position on said wheel, and a rigid arm movable relatively to said body part into either an extended or retracted position for the purpose described.

1,429,335. CHILD'S COOP. JOHN GABRIEL, Randolph, Mass. Filed June 29, 1921. Serial No. 481,283. 1 Claim. (Cl. 5—58.)

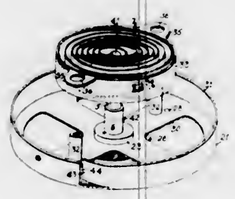
A collapsible coop of the character described comprising a pair of side rails carrying upstanding posts at each of their ends, noncollapsible side walls extending between the posts above and in alignment with the side rails, a pair of rigid and solid floor sections hingedly connected to said side rails along their outer edges and hingedly connected to each other along their inner edges, longitudinally contractile, lazy tong, side walls disposed between the posts at right angles to the noncollapsible

side walls and having sliding connection with said posts, casters upon which the posts are mounted and a row of casters along the inner edges of the floor sections, the floor sections being disposed so close to the ground that the casters thereon may engage the ground and support the floor sections along their hinged juncture with each



other, said floor sections complementally covering the entire area bounded by the collapsible and non collapsible side walls, and a hand grasp on one of the floor sections adjacent its inner edge, said coop being collapsed by drawing upwardly on the hand grasp of the floor section and being opened by thrusting downwardly on said hand grasp.

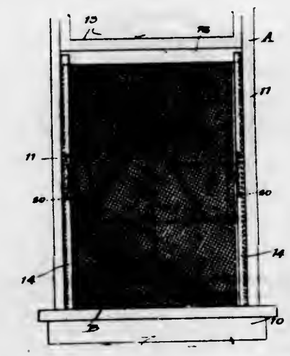
1,429,336. TYPEWRITING MACHINE. WALTER P. GEHRETT, San Francisco, Calif., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed July 29, 1920. Serial No. 399,698. 3 Claims. (Cl. 185—45.)



1. In a typewriting machine, the combination with the carriage driving drum or wheel having posts therein, of a unit structure consisting of a driving spring and a container ring in which said spring is mounted, said ring being adapted to be inserted in said wheel between said posts and having flanged parts for engaging said posts to hold the container in place.

1,429,337. WINDOW-SCREEN MOUNTING. GEORGE WASHINGTON GETSINGER, Savannah, Ga. Filed June 29, 1921. Serial No. 481,289. 3 Claims. (Cl. 156—38.)

2. In combination with a telescopic screen of the character described having substantially channel shaped side frame members, a pair of guideways secured in a window frame, one upon each side thereof and adapted to slidingly receive the side frame members of said screen,

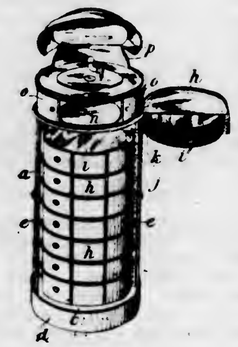


and spring means carried by the window frame for holding the sections of said telescopic screen against telescopic movement.

1,429,338. FINGER-PRINT COMPOSITION. CHARLES F. GLASS, Brooklyn, N. Y., assignor to Fingerprint Machine Corporation, a Corporation of New York. Filed Oct. 23, 1920. Serial No. 419,013. 8 Claims. (Cl. 134—38.)

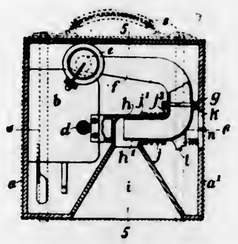
8. A composition for recording finger prints comprising asphaltum 6 parts by volume, wheat flour 4 parts by volume, talc powder ¼ part by volume and silicon ¼ part by volume.

1,429,339. CABINET FOR CONTAINING TALKING-MACHINE RECORDS. JOSHUA GREEN, Hove, England. Filed Apr. 18, 1921. Serial No. 462,291. 5 Claims. (Cl. 211—16.)



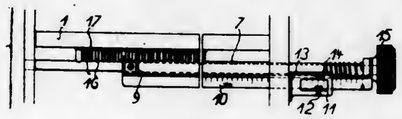
3. In a storage cabinet for talking machine disk records, a storage receptacle comprising substantially semi-circular top and bottom members a curved semi-cylindrical wall connecting the top and bottom portions adjacent to their curved edges, and a plurality of substantially semi-circular shelves supported horizontally in spaced relation between said top and bottom, for supporting disks while permitting them to project from and over the stright edges of the shelves and bottom.

1,429,340. COLLAPSIBLE GRAMOPHONE. JOSHUA GREEN, Hove, England. Filed Dec. 7, 1921. Serial No. 520,559. 12 Claims. (Cl. 274—2.)



2. In a gramophone, the combination with an amplifying horn, of a horizontal sound tube comprising telescoping sections having slidable and rotary movement with respect to each other, one of said sections being provided with an upwardly extending portion, a tone arm pivotally mounted on said upwardly extending portion so as to swing laterally with respect thereto, and means for locking the tone arm and connected portion of the sound tube in operative position, brought into operation by the longitudinal sliding movement of the sound tube sections with respect to each other.

1,429,341. COLUMN ADJUSTING DEVICE FOR TYPEWRITING MACHINES. HEINRICH GRÜTZMANN, Nuremberg, Germany, assignor to the Firm Bingwerke, vorm. Gebr. Bing A.-G., Nuremberg, Germany. Filed Aug. 5, 1921. Serial No. 490,130. 4 Claims. (Cl. 197—179.)



1. A column-adjusting device for typewriting machines with stops to be thrown into operative position comprising in combination with the carriage and with the carriage frame movable stops and an ejecting device mounted upon the carriage frame adapted to act upon said stops so that each of said stops can be brought into the operative position independently of the actual position of the carriage, and consisting of a revoluble adjusting body movable in longitudinal direction, a bar in said adjusting body marked with graduation lines and an ejecting cam designed to operate said stops.

1,429,342. PROCESS OF MANUFACTURING BORNEOL. ALBIN HALLER, Paris, France, assignor to Fabriques de Produits Chimiques de Thann et de Mulhouse, Thann, (Haut-Rhin), France. Filed Oct. 18, 1921. Serial No. 508,596. 4 Claims. (Cl. 260—99.)

3. As a new product, di-bornyl ester of a tetrahalogenphthalic acid other than the chlorine derivative.

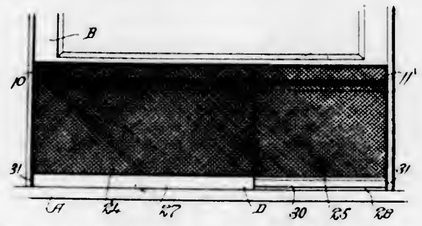
1,429,343. HOOK AND EYE TAPE. ALEXANDER MCD. HESS, New York, N. Y. Filed Jan. 22, 1921. Serial No. 439,226. Renewed July 28, 1922. Serial No. 578,270. 1 Claim. (Cl. 2—58.)

Hook and eye tape comprising a base tape provided with a plurality of alined, longitudinal slots woven therein at a distance from the edge, a second tape, narrower than the base tape sewed thereto at its edge, the line of stitching being substantially in alinement with the slots, and one member of a hook and eye extending through each slot with its base between the two piles of tape and its engaging end above the base tape,



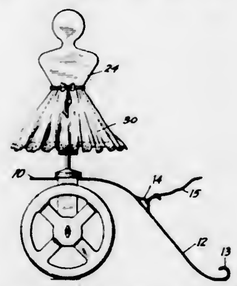
the portion of the base tape in front of the hook and eye member forming a protecting flap when the two members are engaged.

1,429,344. WINDOW SCREEN. JOSEPH D. HIPPOLITUS, New Haven, Conn. Filed Nov. 1, 1920. Serial No. 421,165. 1 Claim. (Cl. 156—39.)



An extension window screen of the type having extensionable roller and anchoring members connected by a sectional screen web of which the members overlap at their adjacent edges, wherein the roller member consists of a spring roller section having at one end an axial tension rod longitudinally adjustable with relation to the spring roller section and keyed thereto for joint rotary movement and having one end of one of the screen web sections attached to and adjustable therewith, the spring roller section being cavitied longitudinally to house said rod and being slotted for the passage of the screen web section therethrough, and the journal studs of the roller being carried by the remote ends, respectively, of the spring roller section and said extension rod.

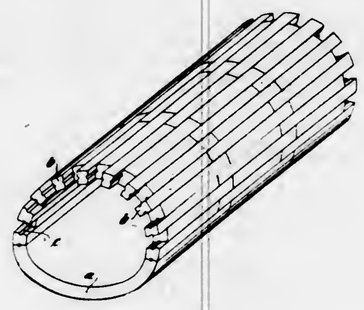
1,429,345. FIGURE WHEELED TOY. WILLIAM J. HOFFMANN, New York, N. Y. Filed May 4, 1921. Serial No. 466,675. 4 Claims. (Cl. 46—45.)



1. A toy comprising a sheet metal plate having downturned side members and an end member adapted to drag

upon a surface, an axle rotatable in said down turned members, wheels fixed at the ends of said axle, a rotatable spindle mounted in a vertical plane in said plate, a figure carried by said spindle, a cylindrical friction element on the spindle, and means carried by said axle to make alternate contact with said element whereby said figure is periodically rotated in opposite directions.

1,429,346. RETORT FOR GAS FURNACES. GUSTAV HORN, Braunschweig, Germany; Elisabeth Horn née Beling, legal heiress of said Gustav Horn, deceased. Filed Sept. 1, 1921. Serial No. 497,795. 1 Claim. (Cl. 48—119.)



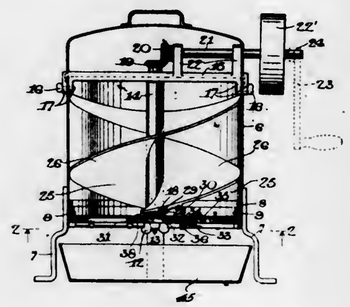
A retort for manufacturing gas comprising stepped overlapping trough-shaped floor pieces of the breadth of the whole retort; narrow ceiling pieces each provided at each lateral surface with a groove and placed side by side in groups above the said floor so as to form an arched ceiling, the groups of narrow adjacent ceiling pieces being placed end to end with the ends of the individual pieces displaced to the extent to which the trough-shaped floor pieces overlap, and the grooves in each two abutting lateral surfaces registering with each other so as to form a channel; and fire-proof mortar in each said channel.

1,429,347. SYSTEM FOR THE IDENTIFICATION OF VEHICLES OF THE MOTOR-DRIVEN TYPE. FRANK W. HOUGH, Washington, D. C. Filed Feb. 11, 1922. Serial No. 535,772. 6 Claims. (Cl. 40—10.)



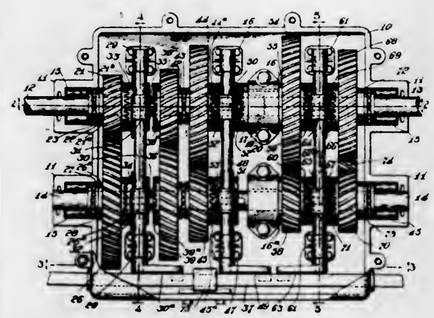
1. An identification label having a central opening, a countersunk portion in said label about said opening, a continuous groove in said label adjacent to said countersunk portion, and a recess in said label beyond said groove having a relatively thin wall of concavo convex shape in cross section.

1,429,348. VEGETABLE CUTTER. EDWIN HUMAN, Milwaukee, Wis. Filed Apr. 17, 1922. Serial No. 554,218. 3 Claims. (Cl. 146—11.)



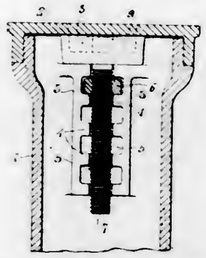
1. In a vegetable cutter, the combination of a pair of vertically disposed oppositely extending spiral feed chutes, and a revoluble member at the bottom of said chutes provided with cutters, said chutes cooperating with said member to hold the vegetables against said member during the cutting operation.

1,429,349. TRANSMISSION MECHANISM. IRVIN HUPP, Chicago, Ill., assignor to Flexo Motive Corporation, a Corporation of Delaware. Filed Nov. 19, 1917. Serial No. 202,784. 27 Claims. (Cl. 74—59.)



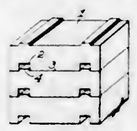
1. Transmission mechanism, comprising, in combination with a power shaft, a driven shaft and a counter shaft, a plurality of gears loosely mounted on said shafts, the gears on the power shaft and the driven shaft meshing with the gears on the counter shaft, clutch mechanisms feathered on all of said shafts intermediate of adjacent gears and intermediate of the power shaft and the driven shaft, means whereby the clutch mechanisms may be actuated and moved into engagement with the gears on either side thereof, and a member common to all of said means whereby predetermined portions of said means are actuated at prearranged moments in the movement of said member.

1,429,350. CURB BOX OR PIPE. PETER J. IHRIG, Springfield, Ohio, assignor of one-half to Justus K. Ihrig, Springfield, Ohio. Filed May 16, 1921. Serial No. 470,150. 5 Claims. (Cl. 137—13.)



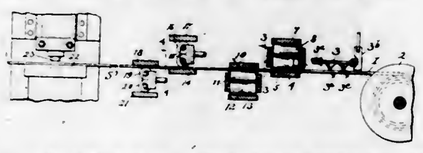
1. In a device of the character described, the combination, with a box or pipe having a series of nut-holders, of a cap and a bolt extended through the cap and having a nut adapted to engage any one of the nut holders.

1,429,351. MEANS FOR LIMITING CAPILLARY ATTRACTION BETWEEN STRUCTURAL ELEMENTS. FRANK J. JACKSON, Waterloo, Iowa. Filed May 29, 1919. Serial No. 300,693. 2 Claims. (Cl. 20—4.)



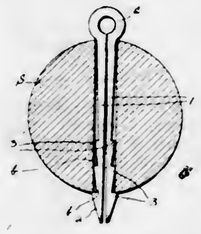
1. In combination, in a wall structure, tiers of horizontal blocks of which the horizontal faces of abutting blocks are in contact and provided with transversely-spaced longitudinal articulations, each articulation comprising in the under block a raised ridge, and in the superposed block a co-mating groove of greater height, whereby a space is provided above the ridge of greater height than the interspace between the said contacting parts of the blocks, to thereby interrupt capillary attraction between the blocks at such higher spaces.

1,429,352. COMMUTATOR-SEGMENTS MANUFACTURE. HENRY P. JANKE, Toledo, Ohio, assignor, by mesne assignments, to The Toledo Standard Commutator Company, a Corporation of Ohio. Filed June 24, 1918. Serial No. 241,455. 22 Claims. (Cl. 80—3.)



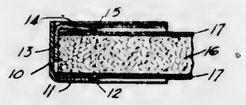
1. In an apparatus for forming tapered commutator segments, means for rolling copper wire into a bar or strip of wedge-like form in cross-section, from which tapered segments may be punched or cut, said apparatus comprising a reciprocable roller and a stationary die in operative relation to the roller, said die having a groove through which the stock to be rolled is fed, said groove being provided with sides which are the same distance apart during the rolling and feeding operations, and having opposite to the roller for the support of the strip or bar to be rolled, a surface inclined at an angle to the path of the roller, and means for feeding the stock through said groove.

1,429,353. COTTER PIN. JOSEPH S. KARSKY, Owen, Wis. Filed May 1, 1922. Serial No. 557,805. 2 Claims. (Cl. 74—8.)



1. As a new article of manufacture, a cotter pin comprising a split shank providing separated legs, the free extremities of the legs being provided with outstanding teeth, said teeth successively being of greater lengths.

1,429,354. INK PAD AND METHOD OF MAKING THE SAME. ROBERT H. KEE, Los Angeles, Calif., assignor to Mun-Kee Products Corporation, Los Angeles, Calif., a Corporation of California. Filed July 7, 1921. Serial No. 482,875. 7 Claims. (Cl. 91—54.5.)



1. In an inking pad, a frame composed of a pair of members that are substantially L-shape in cross section, one member being arranged within the other and with the horizontally disposed flanges of said members inwardly presented, and an absorbent body arranged within said frame with its edges clamped between said inwardly presented flanges.

1,429,355. BUILDING CONSTRUCTION. HENRY KLEIN and PAUL J. KLEIN, Detroit, Mich. Filed May 6, 1921. Serial No. 467,490. 5 Claims. (Cl. 72—110.)



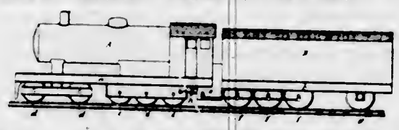
1. A reinforcement for a composition wall comprising substantially parallel flat metallic plates spaced apart and connected by two series of wires lying in spaced planes each substantially parallel to the face of the wall.

1,429,356. LOCOMOTIVE AND THE LIKE PROVIDED WITH AIR COOLER FOR CONDENSING PURPOSES. FREDRIK LJUNGSTRÖM, Brevik, Lidingon, Sweden, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Filed Mar. 11, 1919. Serial No. 282,049. 1 Claim. (Cl. 105—38.)



In a locomotive or the like having a steam generating boiler placed on a separate car and an air cooler for condensing purposes on another car, a driving steam motor for the locomotive placed solely on the cooler car at the end of the cooler facing the boiler.

1,429,357. LOCOMOTIVE AND THE LIKE PROVIDED WITH CONDENSER. FREDRIK LJUNGSTRÖM, Brevik, Lidingon, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Filed Mar. 11, 1919. Serial No. 282,050. 1 Claim. (Cl. 105—38.)

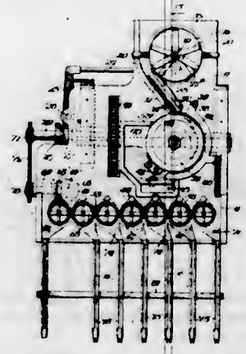


In locomotives and the like, in combination two connected cars, a boiler disposed on one of said cars, a condenser disposed on the other car, a driving steam motor supported solely on the condenser car, the boiler car being placed before the condenser car, a steam conduit from the boiler car to the steam motor, and a joint in said conduit having its axis coinciding with the axis of the connection between the cars.

1,429,358. FILLING COMPOSITION FOR BRAKE SHOES. GUY L. MCINTYRE, Pittsburgh, Pa. Filed Aug. 2, 1920. Serial No. 400,817. 20 Claims. (Cl. 106—25.)

20. A frictional composition having coke as the largest constituent by weight.

1,429,359. APPARATUS FOR PLACING WASHERS IN RUBBER-HEEL MOLDS. HARVEY F. MARANVILLE, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 18, 1919. Serial No. 271,878. 57 Claims. (Cl. 18—1.)

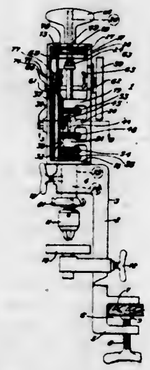


48. A washer handling apparatus comprising a deburring mechanism, a washer holder and conveyor, and a mold carrier beneath the conveyor.

1,429,360. INFLAMMABLE COMPOSITION FOR TABLEWARE. GOLDIE MARTIN, Winchester, Ind. Filed Aug. 27, 1921. Serial No. 496,189. 4 Claims. (Cl. 106—38.)

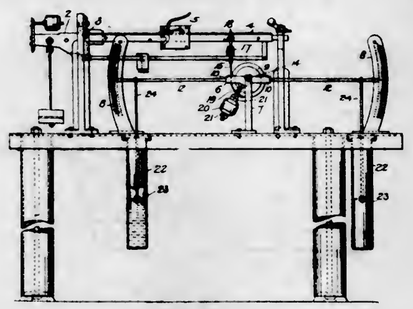
1. An inflammable composition consisting of a mixture of a resinous substance and the resulting product of casein dissolved in carbolic acid.

1,429,361. COMBINED DRILL AND VALVE GRINDER. VICTOR MATALAVAGE, Columbus, Ohio. Filed June 23, 1920. Serial No. 391,216. 10 Claims. (Cl. 51—29.)



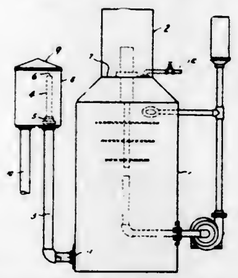
1. In a combination tool of the character described, a frame, a compound gear rotatably carried by said frame, a tool operating spindle rotatably journaled within said frame, means co-operative with said spindle and said gear adjustable to cause selective rotation of said spindle in a predetermined direction and to effect an oscillatory back and forth motion thereof.

1,429,362. QUICK-WEIGHING ATTACHMENT FOR SCALES. MARTIN MAURER, Pueblo, Colo. Filed July 9, 1919. Serial No. 309,678. 3 Claims. (Cl. 265—59.)



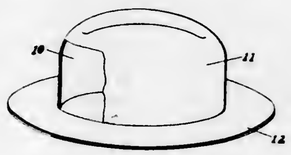
1. In a beam scale of the character described the combination of a fulcrumed scale-beam, a pivoted pointer parallel therewith, a relatively stationary scale cooperating with the pointer, a coaxial segment moving with the pointer, a strap connecting the segment with the beam at a point outside the fulcrum thereof, and a weight acting upon the pointer and relatively disposed to be lifted by movement of the scale-beam under the influence of the load.

1,429,363. AUTOMATIC DISCHARGE MEANS FOR DEHYDRATORS. WYNN MEREDITH, Alameda, Calif., assignor to Petroleum Rectifying Company, San Francisco, Calif., a Corporation of California. Filed Oct. 28, 1920. Serial No. 420,246. 5 Claims. (Cl. 204—24.)



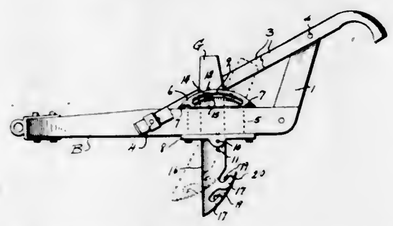
1. In combination with an emulsion dehydration chamber, a pipe connection to the lower part of said chamber and rising therefrom, an outlet member adjustably connected to said pipe whereby the elevation of the discharge from said pipe and said member may be varied to maintain the chamber full and without substantial pressure therein.

1,429,364. ART OF FORMING LINING SURFACES IN HATS. ANDREW W. MITCHELL, Norwalk, Conn., assignor to Ran W Hat Shop, Inc., Norwalk, Conn., a Corporation of New York. Filed July 28, 1920. Serial No. 399,456. 12 Claims. (Cl. 2—108.)



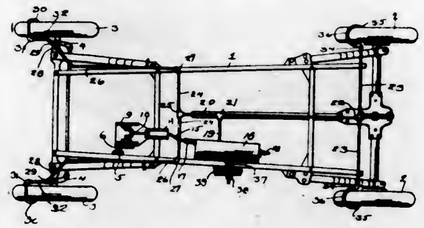
1. An art of the nature of that herein described which consists in inverting a hat formed of a single thickness of material, applying a distinctive color to the inner surface of the crown directly to said material, and reverting the hat.

1,429,365. PLOW. CHARLES F. MORRIS, Earlysville, Va. Filed May 14, 1921. Serial No. 469,521. 2 Claims. (Cl. 97—26.)



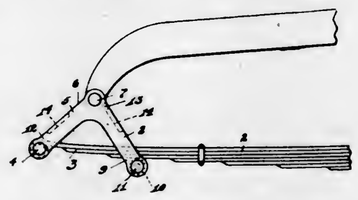
1. An implement of the class described comprising a beam provided with an opening therethrough, an elongated member disposed through the opening and extending above and below the beam, means for supporting the member for swinging movement, upstanding webs carried by the beam at opposite sides of the member, said webs being provided with slots, and a clamping medium carried by the member and disposed through the slots of the web for holding the member in different positions.

1,429,366. ANTISPLASHING DEVICE FOR AUTOMOBILES. JOHN WILLIAM NETHERTON, South Bend, Ind., assignor of one-half to Harry C. Hardt, South Bend, Ind. Filed June 27, 1921. Serial No. 480,764. 3 Claims. (Cl. 280—157.)



1. In combination with a vehicle frame and supporting wheels therefor, a source of air under pressure carried by said frame, a pipe associated with each of the wheels and in communication with the source of air, said pipe straddling the associated wheel from above and terminating closely adjacent the lowermost point of the wheel and slightly forward of the contacting portion of the wheel, a portion of said pipe immediately adjacent the wheel being flexible.

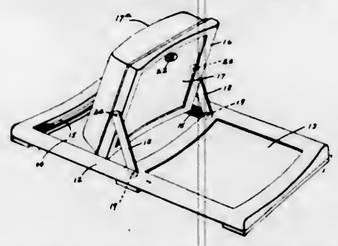
1,429,367. COMBINED SHOCK ABSORBER AND REBOUND SNUBBER FOR VEHICLE SPRINGS. GEORGE J. OLTSCH, South Bend, Ind. Filed Jan. 14, 1921. Serial No. 437,276. 6 Claims. (Cl. 267—19.)



1. The combination with a semi-elliptic spring and a vehicle frame disposed thereover, of a combined shock absorber and snubber therefor, said snubber and shock absorber comprising a bracket pivoted to one end of the spring and to the vehicle frame at a point spaced inwardly from the end of the spring, said bracket being provided with a member disposed below the spring at a point spaced from the end of the spring and forming means whereby the end of the spring will be bent downwardly upon the rebound of the vehicle frame.

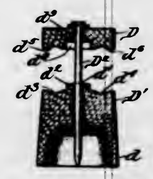
1,429,368. CAR SEAT. THOMAS D. OWLER and HARRY S. GORDON, Wakefield, Mass., assignors to Heywood-Wakefield Company, Wakefield, Mass., a Corporation of Massachusetts. Filed Oct. 19, 1921. Serial No. 508,671. 1 Claim. (Cl. 155—10.)

A car-seat comprising end supports and a seat section including an oblong outer frame, adapted to be maintained in an operative position by said supports, a fixed seat face occupying and filling one end portion of the frame, and adapted to support a passenger, the other end portion of the frame being formed to surround an opening, and provided with upwardly facing rests within said opening, an invertible inner frame formed to occupy said opening and bear, either side up, on said rests, so that the inner frame is adapted to occupy either of two operative positions within said opening, said inner frame being provided with two oppositely facing seat faces, one of which is substantially flush with the fixed seat face, and is adapted to support another passenger when the inner frame is in one of said positions, the other face being offset and formed to be inoperatively located below the outer frame when the inner frame is in one of said positions, and to project above the outer frame and support a motor man when the inner frame is in the other operative position, parallel links formed to lie between adjacent edges of the outer and inner frames at opposite sides of said opening, inner pivots connecting said links with the outer frame at one end of said opening, whereby the links are



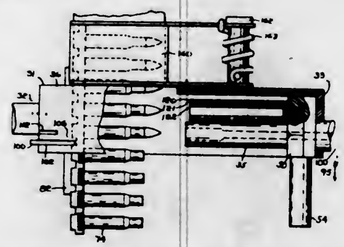
adapted to swing into and out of the opening, and outer pivots connecting the swinging ends of the links with the inner frame, midway between the ends of the latter, said links loosely anchoring the inner to the outer frame, and permitting the elevation and upward displacement of the inner frame, without displacement of the outer frame, the inversion of the inner frame when the latter is elevated.

1,429,369. ATTACHING DEVICE. WILLIAM MORRILL PARKER, Parkersburg, W. Va., assignor to J. H. Parker & Son, Incorporated, Parkersburg, W. Va., a Corporation of West Virginia. Filed Jan. 8, 1915. Serial No. 1,225. 11 Claims. (Cl. 173—314.)



5. An insulator comprising cap and base portions formed with perforations, and a nail extending through said perforations and having a head at one extremity and means adjacent the other extremity to positively retain the cap and base on the nail and permit a substantial movement of the two along the nail.

1,429,370. MACHINE GUN. BURLEIGH PUTNAM, Pasadena, Calif. Filed Aug. 30, 1917. Serial No. 188,021. 4 Claims. (Cl. 89—2.)



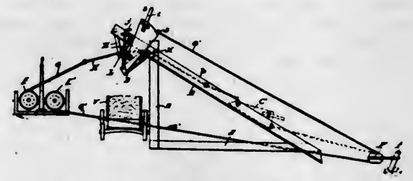
1. In a gun, the combination of: a moving barrel; means for inserting cartridges in said barrel; and an oiling device actuated by said barrel lubricating the exterior of said cartridges before they are placed in said barrel.

1,429,371. ROPE SOCKET. WILLIAM D. SHAFFER, Santa Paula, Calif. Filed Mar. 14, 1921. Serial No. 452,063. 3 Claims. (Cl. 117—58.)



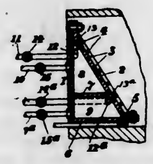
1. A rope construction, comprising a steel cable having a flexible core extending a portion of its length, and a hard non-compressible core mounted therein and extending the remaining portion of its length, whereby to provide a cable having flexibility and non-compressibility.

1,429,372. SAND AND GRAVEL LOADER. JESSE M. SHAMP, Wooster, Ohio. Filed Feb. 19, 1921. Serial No. 446,530. 4 Claims. (Cl. 214—110.)



1. In a device of the character described, the combination with an inclined platform having side rails, extensions of said side rails beyond said platform, a roller mounted at the summit of said platform, a roller bar suspended from said extension a short distance beyond, and parallel with said summit roller, a scraper having a bail, a cable attached to said bail, and passed over said rollers, a horizontal cross-bar above said rollers to limit tilt of the scraper, and means for propelling said scraper in and down said platform, substantially as set forth.

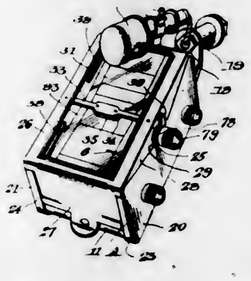
1,429,373. LIQUID-FUEL BURNER. JAMES SMITH, Glasgow, Scotland. Filed Mar. 17, 1922. Serial No. 544,539. 9 Claims. (Cl. 158—92.)



1. A liquid fuel burner comprising a casing having a perforated wall, means dividing the casing to form separate compartments to which said wall is common, means

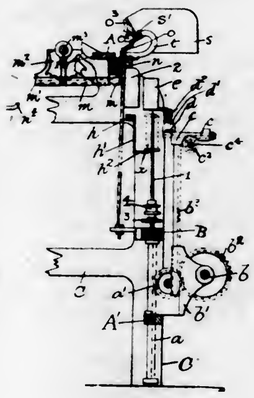
for distributing liquid fuel independently over the exterior surface of the perforated wall of each compartment, and means for supplying a suitable comminuting agent to each compartment independently.

1,429,374. ROAD RECORDER AND INDICATOR. THEODORE JOHN SMULSKI, Chicago, Ill., assignor to Orrville Ernest Joseph, Detroit, Mich. Filed Sept. 7, 1920. Serial No. 408,758. 14 Claims. (Cl. 40—42.)



1. A road indicator and recorder comprising a casing, discs rotatably mounted in the frame, and tape receiving rollers having recessed flanges engaging with the discs, the said rollers being designed to be rotated in opposite directions.

1,429,375. DOFFING APPARATUS FOR SPINNING, DOUBLING, TWISTING, AND LIKE MACHINES. ALFRED STELL, Steeton, and JOHN STELL, Keighley, England. Filed Sept. 15, 1920. Serial No. 410,501. 8 Claims. (Cl. 118—18.)



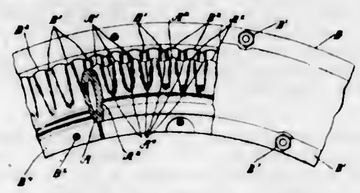
1. In a machine of the character described, the combination with a series of spindles, a series of bobbin receptacles supported at one side of the spindles, means for effecting relative vertical and lateral movement between the spindles and bobbin receptacles, and means for moving the receptacles longitudinally of the series of spindles.

1,429,376. FARM IMPLEMENT. GEORGE S. STEPHENSON, Los Angeles, Calif. Filed Oct. 27, 1921. Serial No. 510,816. 30 Claims. (Cl. 55—23.)



1. An implement of the kind described having a transverse row of corrugating mulchers, said mulchers being V-shaped in cross section with their upper edges flaring rearward at less than 45 degrees.

1,429,377. MOLD FOR TRANSVERSE AND ANNULAR PNEUMATIC TIRES. LAWRENCE A. SUBERS, Lakewood, Ohio. Filed Dec. 13, 1920. Serial No. 430,443. 5 Claims. (Cl. 18—38.)

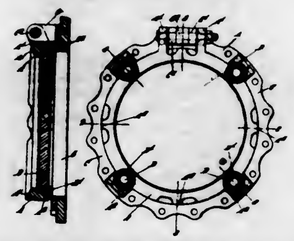


1. In a device for the securing and compression of a fabric tire, during vulcanization, the combination of a core and mold, each provided with continuous series of complementary transverse corrugations and an annular corrugation at each side.

1,429,378. PROCESS FOR THE EXTRACTION OF PLATINUM AND SIMILAR METALS FROM THEIR SANDS AND ORES. RUSSELL THAYER, Philadelphia, Pa. Filed Jan. 23, 1920. Serial No. 353,632. 1 Claim. (Cl. 75—17.)

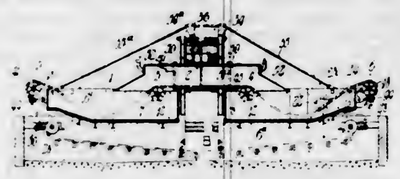
A process of extracting platinous metals from their ores, which consists in forcing a blast of superheated steam through a body of finely divided ore, whilst maintaining said body at a high temperature but below the melting point of said metals, collecting the resultant fume, and recovering the metals therefrom.

1,429,379. SHIP'S LIGHT. THOMAS UTLEY, Liverpool, England. Filed Oct. 12, 1920. Serial No. 416,477. 14 Claims. (Cl. 114—176.)



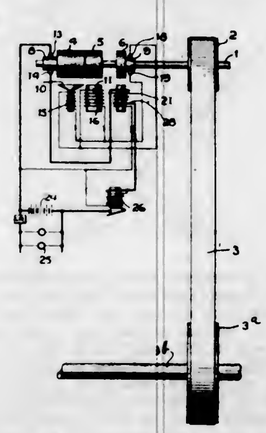
14. A ship's light comprising a main frame with an opening therein, clamping devices co-operating iwth said frame, and a movable member for closing said opening, which member is slotted and provided with bevelled surfaces adjacent to said slots, said clamping devices being adapted to co-operate with said bevelled surfaces to clamp the said member in the closing position.

1,429,380. CONTINUOUS ANNEALING FURNACE. MARTIN VAN MARLE, Dudley, England. Filed Mar. 15, 1922. Serial No. 543,918. 6 Claims. (Cl. 268—8.)



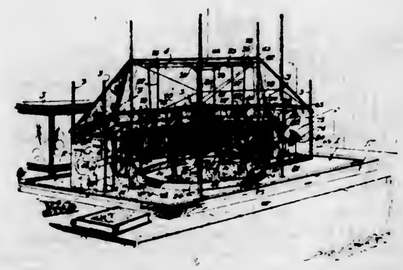
1. A continuous annealing furnace comprising a heating chamber, liquid seals for both ends of said heating chamber, an endless conveyor for the goods passing through said heating chamber and in slack loops through said water seals, and means for positively driving said conveyor at the same speed at both ends of the furnace, whereby the conveyor loops in the water seals are maintained.

1,429,381. ELECTRICAL APPARATUS. THOMAS W. VARLEY, New York, N. Y., assignor to Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed July 24, 1918. Serial No. 246,432. 9 Claims. (Cl. 171—224.)



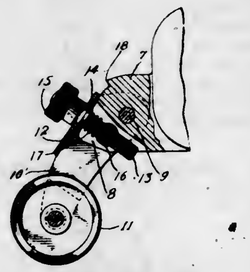
1. In apparatus of the class described, in combination, an armature, exciting means therefor comprising a pair of magnetic circuits differentially effective upon said armature, and operating at unequal degrees of saturation, an exciter adapted to excite both of said circuits at said unequal degrees of saturation, a work circuit connected with the armature, and a series coil on the exciter connected in series with at least part of the work circuit, to limit the current therein by raising the strengths of said fields.

1,429,382. TOY CIRCUS. HENRY ALBERT VAUGHAN, Selma, Ala., assignor of one-half to George F. Cothran, Selma, Ala. Filed Oct. 19, 1920. Serial No. 417,944. 8 Claims. (Cl. 46—40.)



1. A device of the class described including a stationary bar, a reciprocating bar disposed beneath the stationary bar, a movable figure suspended at each end of the movable bar, an additional figure supported intermediate the ends of said movable bar and disposed at right angles to the figures at the ends of the bar, means for imparting reciprocating movement to the movable bar, for moving the figures at the ends thereof in the same general direction and means dependent upon the reciprocating movement of the movable bar for imparting movement to the central figure.

1,429,383. MEANS FOR ADJUSTING VACUUM CLEANER NOZZLES. ALONZO A. WARNER, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Apr. 15, 1921. Serial No. 461,469. 3 Claims. (Cl. 15—16.)

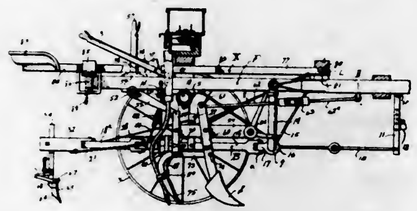


1. In a vacuum cleaner, the combination of a casing having supporting wheels adjacent to its forward end and a lug at its rear end, an arm pivoted to said lug, and means for varying the angular position of said arm with relation to said lug and for preventing pivotal movement of the arm in either direction when adjusted, comprising a nut pivotally mounted on one of said parts, and an adjusting screw extending loosely through an aperture in the other part and screwthreaded into the nut.

1,429,384. CULTIVATOR. GEORGE F. WARNER, Ennis, Tex. Filed Jan. 14, 1920. Serial No. 351,317. 7 Claims. (Cl. 97—35.)

1. A machine of the class described comprising a portable frame, a rock arm carried thereby, a depending arm pivotally engaged therewith and depending therefrom, a vertically swinging arm carried by the frame and in pivotal engagement with the depending arm, a ground

working element operatively connected with said vertically swinging arm, a standard pivotally engaged with the vertically swinging arm, a rod pivotally engaged with an



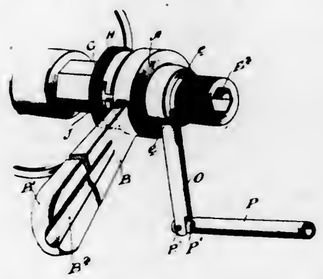
end portion of the standard, a second rod secured at one end portion to the frame, and a turn-buckle connecting the adjacent end portions of the rods and operating to adjust the standard about its pivot.

1,429,385. INNER TUBE FOR PNEUMATIC TIRES. NATHANIEL G. WARTH, Columbus, Ohio. Filed July 18, 1919. Serial No. 311,860. 1 Claim. (Cl. 152—13.)



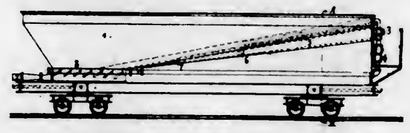
An inner tube of soft rubber for a pneumatic tire having its main body portion substantially permanently circular in cross section and provided at its inner side with a circumferential outward protrusion from the main body portion said protrusion having its wall of substantially the same thickness as that of the body portion and curved in cross section on an arc of a smaller radius than that of the main body portion and adapted when inserted in the casing and rim to form at each side thereof circumferential inward protrusions subject to compression when the tube is inflated.

1,429,386. WRENCH. HARRY W. WATSON, Memphis, Tenn. Filed June 24, 1921. Serial No. 480,054. 6 Claims. (Cl. 81—53.)



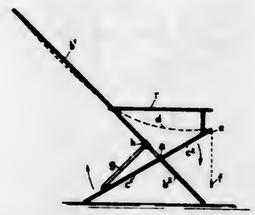
1. A wrench comprising a stationary ratchet head and a lever handle rigidly connected thereto, a rotatable extension socket member within said head said socket provided with transverse bolt sockets, a spanner surrounding said extension socket, a hollow arm projecting laterally from said spanner ring, the bore of said arm adapted to be brought into register with the said bolt sockets, a slidable bolt in said hollow arm adapted to engage one of said bolt sockets and couple the extension socket member with the said spanner ring, and an extension arm having pivotal connection with the other end of the hollow arm and the bolt therein, whereby said bolt may be projected into and retracted from the bolt sockets by the swinging of the extension arm angularly on its pivotal connection with the hollow arm section.

1,429,387. FLUSHING HOPPER FOR SHALLOW AND DEEP DREDGERS. WILHELM WEBER, Wiesbaden, Germany, assignor to the Firm Gewerkschaft Hausbach II, Wiesbaden, Germany. Filed Jan. 22, 1921. Serial No. 439,275. 1 Claim. (Cl. 214—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



An improved flushing hopper for material to be flushed in connection with deep dredgers comprising in combination with the hopper proper, flushing gutters which get narrower in the direction of movement of the material to be flushed, spraying nozzles in said gutters for supplying the flushing water, a flushing conduit in which said gutters terminate, means for connecting said flushing conduit with the fixed flushing main, a water pipe at the end of the hopper opposite the flushing conduit and means for connecting said water pipe with the water main.

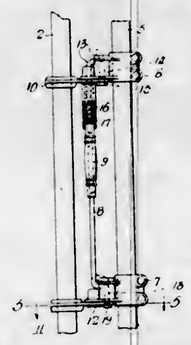
1,429,388. FOLDING SEAT CONVERTIBLE INTO BED. RICHARD WEDEMANN, Brunswick, Germany. Filed Aug. 13, 1921. Serial No. 492,059. 4 Claims. (Cl. 155—45.)



1. A piece of furniture of the class described, comprising a pair of frames having side bars pivotally connected with each other and disposed one within the other, the lengths of the sections of the inner frame taken from the pivotal axis to the ends thereof being shorter than the corresponding sections of the outer frame, and the frames being constructed respectively at their inner and outer sides so as to permit the inner frame to be rocked through the outer frame, an apron attached at one end to one of said frames and adapted to be attached at its opposite end to either one of the ends of the other frame, and bracing means movable on said outer frame and supported by the inner frame or by the ground.

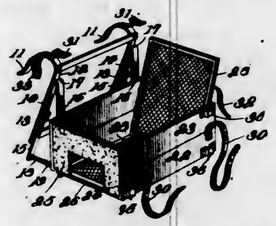
1,429,389. GATE LATCH. WILLIAM L. WEINTZ, Ottawa, Ill., assignor to J. E. Porter Corporation, Ottawa, Ill., a Corporation of Illinois. Filed July 25, 1921. Serial No. 487,261. 8 Claims. (Cl. 292—216.)

1. The combination with a gate post and a hinged gate, of a latch mechanism, comprising two pivoted latch members spaced apart and carried by said gate, said latch members having forked outer ends to straddle said post when the gate is closed and being turned by said post into and out of straddling engagement therewith on swinging said gate into and out of closed position, each latch member having a bolt hole on the side of its pivot opposite its forked outer end, and a single spring pressed latch bolt



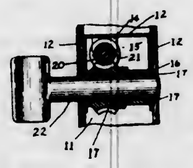
slidably carried by said gate in the plane thereof and lying between the gate and post when the gate is closed, said bolt extending between said latch members and having its ends movable into and out of locking engagement with the bolt holes therein, said bolt snapping into said bolt holes when the gate reaches closed position.

1,429,390. COMBINED SEAT AND BED. FRANK C. WILLIAMS, Salt Lake City, Utah. Filed Nov. 6, 1919. Serial No. 336,073. 10 Claims. (Cl. 5—59.)



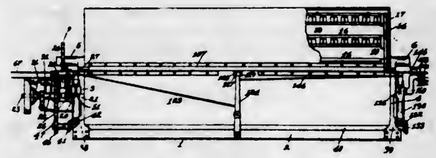
1. A combined seat and bed comprising a suspension frame provided with suspension hooks shaped to fit over the back of a vehicle seat or the like, spaced apart supporting devices having arms secured to said frame and also having depending supporting members in spaced relation with said arms, and a body pivoted to said depending supporting members.

1,429,391. STRING-INSTRUMENT KEY. APOSTLE ANAGNOST, New York, N. Y. Filed Dec. 11, 1920. Serial No. 429,960. 3 Claims. (Cl. 84—306.)



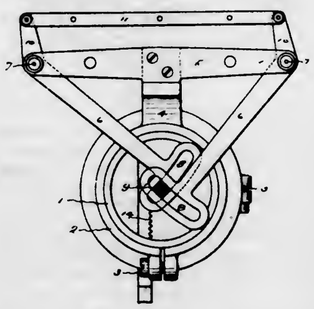
1. A stringed instrument key comprising in combination a frame adapted to be secured within the peg box of a stringed instrument, said frame being shaped so as to form a pair of parallel spaced arms having circular openings and a pair of oppositely disposed projections cut away at their free ends, a hollow worm wheel, provided with a tubular extension, rotatably mounted within the openings of said parallel arms, said tubular extension having a hole formed therein near the worm portion, a pin adapted to fit into said hole, a peg removably secured within the peg box, adapted to extend through the annular openings in the arms of said frame and the hollow of the worm wheel, the latter rotatably engaging the peg, and a worm provided with a milled head the threaded portion of which being mounted between the oppositely disposed projections of said frame, said worm being adapted to engage the teeth of the worm wheel.

1,429,392. METHOD FOR EXHAUSTING FOOD CONTAINERS. JOHN F ANDERSON, Oakland, Calif. Filed Jan. 18, 1922. Serial No. 530,209. 3 Claims. (Cl. 99—8.)



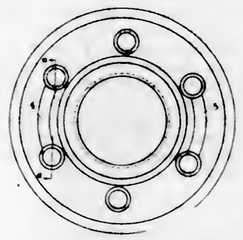
1. The method of sterilizing and exhausting the air from filled containers of fruit or other substances before said containers are capped and hermetically sealed, which consists in conveying a container or containers in a series of circular paths about an axis in a chamber, and intermittently advancing said container or containers through the chamber in the direction of said axis.

1,429,393. SENSITIVE SPINDLE BEARING. NILS H. ANDERSON, Trumbull, Conn. Filed June 23, 1921. Serial No. 479,784. 7 Claims. (Cl. 74—104.)



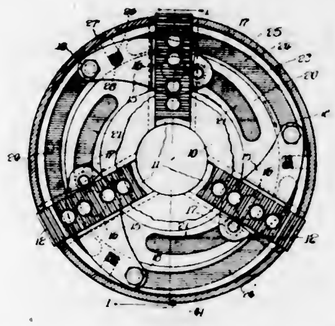
7. A spindle bearing comprising a supporting cylinder, a ring clamped upon each end of the cylinder, a bracket extending upward from each ring, a pair of parallel horizontally extending plates attached to each bracket, an arbor mounted at each end of each pair of plates, a link mounted on each arbor, said link having in its free end an arcuate slot the center of which is the axis of the link, arms projecting upward from the pivoted ends of the links, a connection between said arms so that the links will swing coincidentally, a spindle extending through the hub and the slots in the links, a pointer on one end of the spindle, and a pinion on the spindle in the cylinder.

1,429,394. QUICK-DETACHABLE VEHICLE WHEEL. CHARLES S. ASH, Hagerstown, Md. Filed Aug. 6, 1919. Serial No. 315,589. 1 Claim. (Cl. 301—9.)



In a quick detachable vehicle wheel hub, in combination, a pressed metal shell having an enlarged spoke flange at one end and having adjacent axially open bosses struck inward from the body of the shell, and means between certain of said bosses substantially flush with the ends thereof, for the purpose set forth.

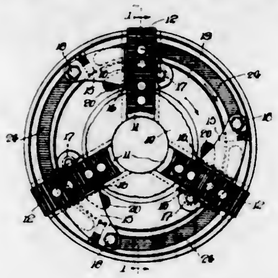
1,429,395. CHUCK. WENDELL A. BARKER, deceased, late of Elkhart, Ind., by Rolla Barker Ferreby, administrator, Elkhart, Ind. Filed Oct. 6, 1921. Serial No. 505,792. 8 Claims. (Cl. 279—114.)



1. In a chuck, the combination of a rotatable chuck body, jaws movable radially therein, levers pivoted between their ends to said jaws respectively, cam means coaxial with said body and normally rotating at the same speed and in the same direction as the latter and operatively engaged with one arm of each of said levers, other cam means coaxial with said body and normally rotating at the same speed and in the same direction as the latter and operatively engaged with the other arm of each of said levers, and means for effecting relative rotation of both said cam means to each other and to said body.

1,429,396. CHUCK. WENDELL A. BARKER, deceased, late of Elkhart, Ind., by Rolla Barker Ferreby, administrator, Elkhart, Ind. Filed Oct. 6, 1921. Serial No. 505,793. 8 Claims. (Cl. 279—114.)

1. In a chuck, the combination of a rotatable chuck body, jaws movable radially therein, levers pivoted between their ends to said jaws respectively, cam means coaxial with said body and normally rotating at the same speed and in the same direction as the latter and operatively engaged with one arm of each of said levers, other cam means coaxial with said body and normally rotating at the same speed and in the same direction as the latter and operatively engaged with the other arm of each of said levers, and means for effecting simultaneous



rotation of both said cam means relatively to said body and then a rotation of one of said cam means relatively to the other.

1,429,397. HAND WARMER. JOHN C. BARROW, Philadelphia, Pa. Filed Aug. 13, 1921. Serial No. 492,099. 5 Claims. (Cl. 219—19.)



1. A device of the class described including an arcuate body member having perforated ears at each end, a resistance coil arranged within said body member, means for retaining said coil in position within the body and a reflector embracing the coil causing the heat therefrom to be reflected toward the closed side of the body.

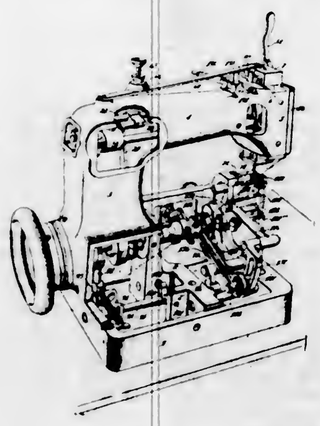
1,429,398. METHOD OF MACHINE-CUTTING SPUR AND HELICAL WHEELS. CURT BARTH, Hamburg, Germany. Filed July 19, 1920. Serial No. 397,521. 4 Claims. (Cl. 90—9.)



1. A process for machine cutting spur and helical wheels by means of a rack-like tool and in which the tool and the work-piece to be cut carry out a rolling-off process relatively to each other, consisting in a complete working stroke being composed of the following operations: firstly, a forward rolling-off movement of the tool and the work-piece relatively to each other for the distance of a multiple of a pitch, at least one pitch, the tool in the course of this movement machining the tooth spaces, secondly, a backward rolling-off action of the said tool and work-piece relatively to each other for any desired extent, which shall in any case, however, and at least be of the magnitude of a pitch, thirdly, a bringing of the two parts, namely tool and work-piece, out of engagement, and, while the one of same is at a stand-still, a forward feed-movement of the other for the distance of a multiple of a pitch, at least one pitch, fourthly, a re-engaging of the tool and work-piece, and a forward

rolling-off action of the same relatively to each other for the extent that the backward rolling-off action has exceeded the amount of a multiple of a pitch, for the purpose of eliminating the effect of the lost motion, substantially as described.

1,429,399. STRAW-BRAID SEWING MACHINE. RUDOLPH BECKER, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Continuation of application Serial No. 200,273, filed Nov. 5, 1917. This application filed Feb. 1, 1919. Serial No. 274,520½. 65 Claims. (Cl. 112—23.)



27. In a sewing machine, in combination, means for feeding the work, a presser-foot, stitch-forming mechanism including needles and loopers operatively supoprted on opposite sides of the work, mechanism for operating said needles and loopers, and means for varying the throw of the needles controlled solely by the thickness of the work, and said loopers having their operative positions determined by the thickness of the work.

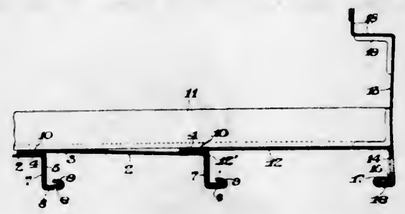
38. In a sewing machine having hook and eyed needles, a pair of loopers cooperating with the needles in the formation of a chain-stitch and operatively supported for vibration in intersecting planes, and a compound actuating eccentric and connections for operating said loopers.

56. In a sewing machine, in combination, stitch-forming mechanism including a needle, a movable work-engaging element, mechanism for operating said needle, and means for varying the throw of the needle including a movable member, said member connected to and free to follow the movements of said work-engaging element at all times during the cycle of operations.

63. In a straw-braid sewing machine having stitch-forming mechanism including parallel eyed and hooked needles, a plurality of loopers cooperating with said needles and mounted for actuation in intersecting planes, and an eccentric for operating said loopers.

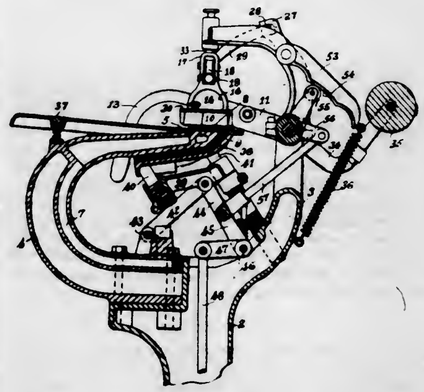
1,429,400. SHEET-METAL BUILDING. HENRY BLOEDOW and JACOB SCHAFFNER, Milwaukee, Wis., assignors to Standard Sheet Metal Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 30, 1921. Serial No. 465,682. 1 Claim. (Cl. 189—34.)

Panels for siding or roofing of a sheet metal building each comprising a body portion, a part extending back on the body portion and outwardly in the form of an L-shaped flange to form a reinforced Z-shaped edge at one side of the body portion, and a part on the other side of the body portion extending outwardly in the form of an L-shaped flange with a backwardly extending hook-shaped edge, the outer flange of the Z-shaped edge of one panel



adapted to be hooked onto said hooked edge and then swung to bring the parts forming the joint between the panels into abutting relation.

1,429,401. METHOD OF PRESSING SHIRTS. CHARLES L. BRALEY, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 9, 1916. Serial No. 124,585. 4 Claims. (Cl. 68—9.)



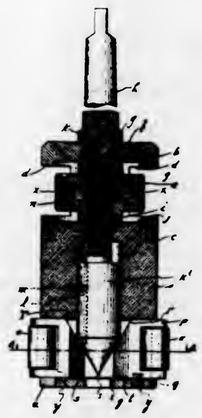
1. The method of pressing shirts, consisting in arranging and pressing the front portions of the yoke at the sides of the neck band, and holding the pressed portions stationary while arranging and pressing the back portion of the yoke.

1,429,402. ELECTRIC HEATER. ABTON ALBERT BUCK, Zurich, Switzerland. Filed Aug. 6, 1917. Serial No. 184,784. 1 Claim. (Cl. 219—46.)



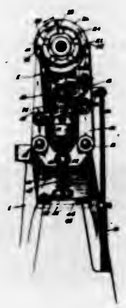
An electric heater formed of textile fabric and incorporated resistance wires threaded stepwise from front to back and back to front therein with each surface thread-portion arranged over an interval along connected rows of wires as stated.

1,429,403. BURNISHING TOOL. ALFONSE CALLEBERT, Jackson, Mich., assignor to Rex Machine Tool Company, Jackson, Mich., a Corporation of Michigan. Filed May 5, 1921. Serial No. 467,075. 5 Claims. (Cl. 29—90.)



1. In a tool for the purpose specified, the combination of a hollow body member, a reciprocating spreader guided longitudinally therein and provided with a threaded stem projecting out of one end of the body member, a projecting boss or bearing encircling said threaded stem and projecting from the end of the body member, a barrel having a hollow interior provided with a projecting stud or bearing, the said barrel provided with slots in its side and having means for detachably engaging the end of the body member, and a nut rotatably locked in place upon the said boss and the said stud and in engagement with the threads of the spreader stem, when the barrel is engaged with the body member.

1,429,404. CLUTCH AND STOP MECHANISM. FREDERIC M. CARD, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Feb. 9, 1920. Serial No. 357,380. 8 Claims. (Cl. 192—116.)



1. In a clutch of the Horton type, an arm constituting a stop-member, an actuating element, an extensible link connecting said arm and actuating element and comprising component parts with an interposed spring tending to draw them together, resilient means constantly tending to throw said actuating element into a predetermined operative position in opposition to the spring of said link, and manual means for forcibly retracting said actuating element in opposition to said resilient means.

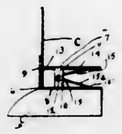
1,429,405. ICE-CREAM-BRICK CENTER PUNCH. FLOYD R. CARTER, OSCAR A. OTTEN, and JOHN C. WILLARD, Fairbury, Nebr. Filed Jan. 31, 1922. Serial No. 533,128. 3 Claims. (Cl. 107—1.)



1. A device for cutting compound ornamental cavities in a brick of ice cream from end to end of the brick, comprising a plurality of punches each having a cutting edge in the form of an element of the compound design, the cross section of each of the punches corresponding in size and form to the cutting edge thereof.

3. The method of producing compound designs in a brick of ice cream which consists in first freezing the brick, then warming the brick until it becomes semi-plastic in consistency, then case hardening the brick by subjecting it briefly to a low temperature, then punching an element of the compound design in the brick, then filling the cavity with edible material, then again case hardening the brick, then punching another element of the design in the brick and filling the cavity thus produced with an edible material which differs from the edible material in the first said cavity, repeating thus until the compound design is complete, and finally re-freezing the brick.

1,429,406. CARD HOLDER. LOUIS L. CHRISTENSEN, Springfield, Mass. Filed Mar. 10, 1922. Serial No. 542,814. 2 Claims. (Cl. 40—146.)

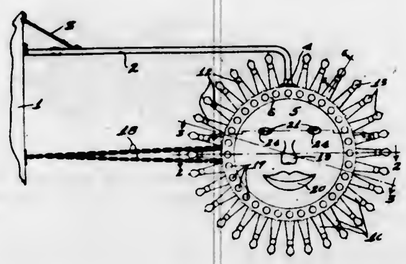


1. A card holder consisting of a stationary member having a base and a jaw disposed angularly thereof, said base being provided with laterally disposed lugs spaced from each other, a movable member having a corresponding lug engaging the lugs of the base, a jaw extending from said lugs to engage the jaw of the stationary member, said movable member being provided with a handle extending from the opposite side of said lugs, a pintle connecting the lugs to each other to permit of the pivotal movement of said movable member on said stationary member, and a spring connecting both members to hold the jaws in clamping relation.

1,429,407. SEALING COMPOSITION. EARL L. CODDINGTON, Middletown, Ohio, assignor of one-half to George D. C. Coddington, West Middletown, Ohio. Filed Aug. 7, 1920. Serial No. 401,981. 4 Claims. (Cl. 106—8.)

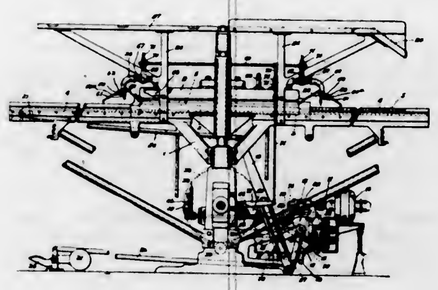
1. A sealing composition made from soap, a mineral non-abrasive material, and water in sufficient quantity to form a paste of desired consistency.

1,429,408. DISPLAY SIGN. MALCOLM COLE, Chicago, Ill. Filed Oct. 21, 1921. Serial No. 509,283. 4 Claims. (Cl. 40—130.)



1. A display sign comprising a pair of convex side plates, radial arm sections integrally formed on the periphery of each side plate, means for securing the side plates and the arm sections together to form a housing with radial arms, a ring of projecting light sockets mounted on each side plate, a light in each light socket, a light socket mounted in the outer end of each radial arm, and a light in each radial arm socket.

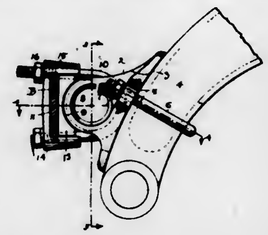
1,429,409. PRESSING MACHINE. FORREST J. COUCH, Rochester, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 18, 1916. Serial No. 115,658. 11 Claims. (Cl. 68—9.)



1. The combination of platen type pressing members having relative vertical pressing movement, a work holder movable horizontally into and out of pressing position between said members, means adjacent the edge of one of said members for directing moisture laden vapor upon the work on said holder, controlling means therefor adapted when operated to cause or cut off the supply of vapor to said means, and actuating means for said controlling means operating in timed relation with said movable work holder for causing the supply of said vapor as the holder moves to pressing position.

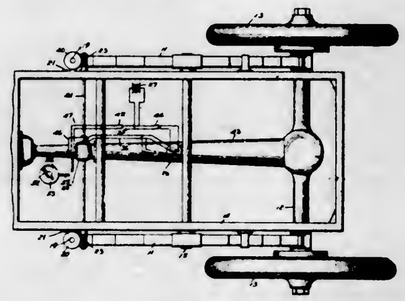
1,429,410. AUTOMOBILE BUMPER BRACKET. WILLIAM G. COX, Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation of New York. Filed Oct. 15, 1921. Serial No. 507,838. 7 Claims. (Cl. 293—55.)

5. A bracket for automobile bumpers, comprising a saddle having a curved base portion and a round projecting part embodying an annular groove, a U-bolt having a round loop seated within said groove, a separate clamping shoe and plate and nuts engaged with said U-bolt adapted to clamp a bumper upon said saddle, and a U-bolt and nuts



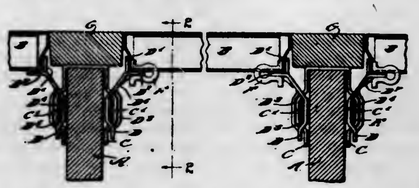
adapted to clamp said saddle upon a curved extension of the automobile.

1,429,411. VEHICLE SUSPENSION. ARCHER DAVIDSON, Brookline, Mass. Filed Nov. 12, 1919. Serial No. 337,551. 21 Claims. (Cl. 267—36.)



1. A suspension as characterized comprising, a plurality of carrying springs operatively connecting the running gear and body of the vehicle; and means for maintaining constant the service relation of the body and running gear of said vehicle, said means embodying electrically actuated means having a prime mover for changing the service normal tension of said springs in correspondence with the carried load on said body.

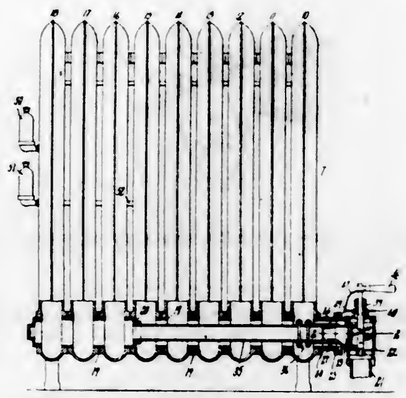
1,429,412. SUPPORT FOR CONCRETE FORMS. HARRY O. DAVIDSON, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 21, 1919. Serial No. 339,581. 5 Claims. (Cl. 25—131.5.)



2. The combination with a stirrup, of a supporting arm, said stirrup and arm having overlapping portions and the locking member longitudinally inserted between said overlapping portions.

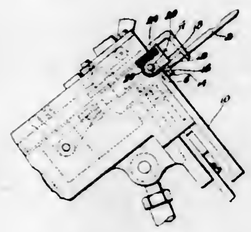
3. The combination with a pan, of a stirrup, and a support detachably connected to said stirrup, said support having vertical and horizontal fingers at its upper end and with which the pan contacts.

1,429,413. RADIATOR WITH ADJUSTABLE CONTROL. GORDON F. DODGE, Brookline, Mass. Filed Jan. 26, 1921. Serial No. 440,011. 5 Claims. (Cl. 257—134.)



3. A radiator having, in combination, a plurality of heating sections, said sections being divided into two series, the sections of each series respectively communicating with each other, a valve casing having two ports one connected to each of said series respectively, a valve rotatably mounted in said casing and adapted to open or close either of said ports independently or both simultaneously and a single supply and return pipe connected to the bottom only of said valve casing.

1,429,414. LACING MACHINE. HERBERT E. ENSLIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 19, 1920. Serial No. 397,403. 8 Claims. (Cl. 112—5.)



8. A lacing machine having, in combination, a series of spindle carriers, each provided with a socket, a support in which the carriers are laterally adjustable, looper spindles fitting within the sockets in the carriers, and each provided with a flange having an eccentric surface therein, lips on the carriers registering with the eccentric surfaces on the flanges, and a retainer bar mounted on the support for movement into and out of position in front of the flanges.

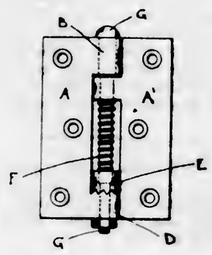
1,429,415. BURNER. GEORGE C. EVANS, Tulsa, Okla. Filed Jan. 18, 1921. Serial No. 438,075. 5 Claims. (Cl. 158—75.)

2. A burner including a body portion having a pair of main channels therein and an auxiliary channel for each main channel in registration therewith, valve means interposed between the main and auxiliary channels for permitting communication between the registering main and auxiliary channels in one position of the valve means, and



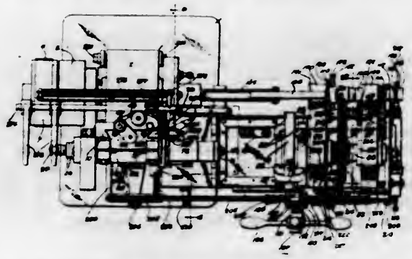
for communicating the main channels with non-registering auxiliary channels in another position of the valve means.

1,429,416. COMBINED HINGE AND DOOR HOLDER. THOMAS WILLIAM FADE, London, England. Filed Jan. 2, 1922. Serial No. 526,459. 2 Claims. (Cl. 16—144.)



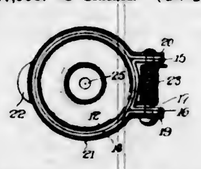
1. A hinge comprising two hinge members provided at one end with lugs and one of the members at the other end provided with a lug having a clutch face, a non-rotatable hinge bolt passing through the lugs and hingedly connecting said members, a non-rotatable clutch member movable lengthwise on the hinge bolt into and out of engagement with the clutch of last mentioned lug, and a spring coiled on the hinge bolt pressing on said clutch member.

1,429,417. MACHINE FOR MANUFACTURING PISTON RINGS. JOHN FLAMMANG, University City, Mo., assignor to Ottmar G. Stark, St. Louis, Mo. Filed Oct. 7, 1919. Serial No. 328,972. 90 Claims. (Cl. 29—1.)



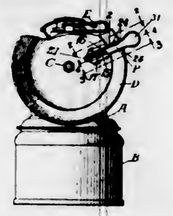
1. In a machine of the character described, the combination of a work supporting chuck, power mechanism for revolving the chuck, a cutter spindle, a cutter carried by said spindle, means for raising and lowering said spindle to move the cutter into and out of contact with the work, automatic means for moving the chuck longitudinally in respect of the cutter, and automatic means for moving the chuck laterally in respect of the cutter to change the angle between the chuck and cutter.

1,429,418. OIL CUP. WILLIAM J. FRISBIE, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 27, 1921. Serial No. 487,935. 3 Claims. (Cl. 184—91.)



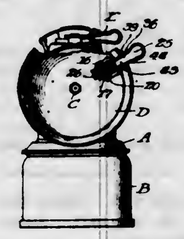
2. In an oil cup, the combination of a body part for containing oil, a strengthening and supporting belt in the form of a close annular endless band of sheet metal, said band intimately fitting entirely around said body part adjacent its edge, sections of said band being looped to form two double thickness laterally extending arms, and a cover for the cup hinged to said arm.

1,429,419. SPARK-PRODUCING MECHANISM. WILLIAM J. FRISBIE, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 8, 1922. Serial No. 535,022. 8 Claims. (Cl. 67—20.1.)



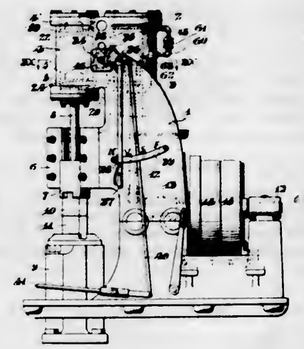
1. The combination of a gas outlet, a frame supported adjacent to said outlet and having a bore, a friction wheel pivoted on said frame in a plane including said gas outlet, pyrophoric material in said bore for operating with said wheel, a lever pivoted on said frame and adapted to be swung toward and away from said outlet, said lever having a channel for receiving gas from said outlet and conducting it towards said wheel, means resisting swing of said lever towards said outlet and tending to return it when released, and means connecting said wheel with said lever whereby said wheel is rotated during return of the lever to cooperate with the pyrophoric material to produce sparks for igniting the gas conducted toward the wheel by said channel.

1,429,420. SPARK-PRODUCING MECHANISM. WILLIAM J. FRISBIE, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 8, 1922. Serial No. 535,023. 12 Claims. (Cl. 67—20.1.)



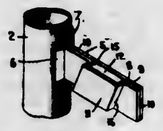
1. In spark producing mechanism of the class described, the combination of a frame, a pivot pin on said frame, a coiled spring surrounding said pin, a friction wheel surrounding said spring and concentric therewith, a lever concentric with said spring adjacent to said wheel, said spring being connected at one end to said lever and its other end to said frame, ratchet teeth on one side of said wheel, a ratchet pawl on said lever for cooperating with said teeth, pyrophoric material and means for holding it against said wheel, said pawl passing along said wheel without rotating it when the lever is swung in one direction but causing rotation of said wheel when the lever is returned in the opposite direction by said spring, rotation of said wheel relative to said pyrophoric material causing the production of gas igniting sparks.

1,429,421. FLUID-POWER HAMMER. EDWARD J. FRITSCH and RALPH W. NAZEL, Philadelphia, Pa.; said Fritsch assignor to said Nazel. Filed Oct. 13, 1919. Serial No. 330,437. 14 Claims. (Cl. 78—42.)



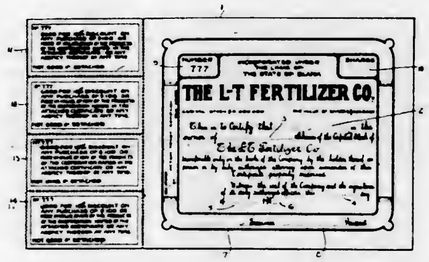
1. In a fluid power hammer provided with an upright power cylinder having a piston therein and an upright work cylinder having a piston therein, mechanism comprising a rotary cylindrical valve and passages connecting the tops of the cylinders and the atmosphere and the bottoms of the cylinders simultaneously through the valve to hold the work piston in suspending action.

1,429,422. BEDSTEAD. FRANCIS G. GALE, Waterville, Quebec, Canada. Filed June 26, 1916, Serial No. 105,782. Renewed Feb. 18, 1922. Serial No. 537,641. 4 Claims. (Cl. 5—55.)



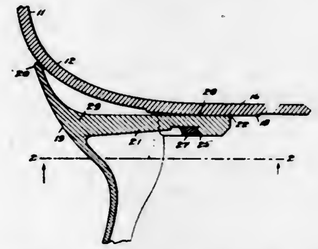
1. In a bedstead, the combination with a post, of a corner fastening member rigid therewith and extending laterally therefrom, said fastening member having a socket provided wtih opposite walls which incline downwardly and inwardly towards the post, and also having a vertical face in line with said socket longitudinally of the fastening, and an angle iron side rail resting on said corner fastening member and having an anchoring portion which fits said socket and inclines downwardly towards the post, the vertical flange of said side rail resting against the vertical face of the corner fastening member and the end of the horisontal leg of said side rail being shaped to fit against the post when the anchoring member is firmly seated in said socket.

1,429,423. CERTIFICATE. FRANCIS E. HAMILTON, New York, N. Y. Filed June 12, 1920. Serial No. 388,402. 1 Claim. (Cl. 283—1.)



A certificate comprising a body portion and a coupon, said body portion and coupon bearing indications to constitute together a certificate of ownership of interest in an enterprise, said interest consisting of ownership of a share in said enterprise and a right to a portion of the price of goods sold by said enterprise to the holder of said certificate, said body portion alone constituting a certificate of ownership of a share in said enterprise only.

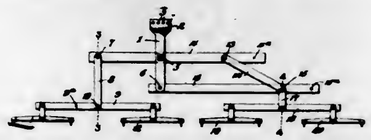
1,429,424. DETACHABLE BATHTUB LEG. RALPH H. HEBBELING, New York, N. Y., assignor to Richmond Radiator Company, a Corporation of Delaware. Filed Nov. 22, 1921. Serial No. 516,921. 3 Claims. (Cl. 4—27.)



1. In a device of the class described, the combination of a bath tub having a thickened bottom portion and a side curving upwardly therefrom, said thickened portion having a pair of spaced apart lugs depending therefrom, a supporting leg including a curved face provided with a tenon projecting horizontally there from and adapted to fit between the lugs with a dove-tail tenon connection therebetween, the lugs and the tenon being each cut away transversely of the length of the tenon to provide undercut shoulders coacting to form a dove-tail key-way with its wider side adjacent said bath tub and a tapering key fitted in said key-way and acting to force the leg and tenon into engagement with the thickened portion of the tub and to force the upper edge of the curved face horizontally against the curved face of the bath tub as the key is driven into position.

1,429,425. DRAFT EQUALIZER. PERRY OSCAR HELLER, Prophetstown, Ill. Filed May 26, 1921. Serial No. 472,786. 1 Claim. (Cl. 278—12.)

In a draft equalizer, the combination of a longitudinally-disposed draw bar, a transverse evener beam pivoted midway of the length of the draw bar and at one side of the longitudinal center of said beam, a spreader bar arranged in advance of the evener beam and pivoted at its inner end to the forward end of the draw bar, a pair of links pivotally connected to the short end of the evener beam, a doubletree pivotally connected to the forward end of the said links and carrying singletrees, another pair of links pivotally connected to the long end of the evener beam and the outer end of the spreader bar, said evener beam



and spreader bar having additional apertures at their outer ends whereby the position of the last-mentioned links may be shifted, said links assuming an inclined position in both of their adjusted positions, and another double tree flexibly connected to the outer end of the spreader bar and carrying singletrees.

1,429,426. MEDICAL APPLIANCE. OTTO HENKEL, Jena, Germany. Filed Apr. 24, 1913. Serial No. 763,222. 2 Claims. (Cl. 128—4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a tube for the reception of a hysteroscope a lateral observation window, the zone of the tube, in which the said window is located, having a greater circumference than the tube proper.

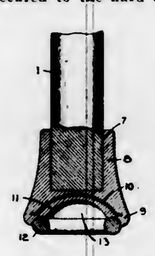
1,429,427. PARCHMENT PAPER OR VULCANIZED FIBER AND PROCESS FOR MAKING SAME. BERNARD HERSTEIN, Brooklyn, N. Y. Refiled for abandoned application Serial No. 183,728, filed July 31, 1917. This application filed Apr. 6, 1920. Serial No. 371,710. 6 Claims. (Cl. 154—34.)

5. A new article of manufacture being an improved parchment or vulcanized paper consisting of layers of papers the cellulose particles of which are nitrated so as to contain not in excess of 4½% of nitrogen and cemented together by an alkali induced gelatinization of said weakly nitrated cellulose of the paper layers.

1,429,428. CRUTCH TIP. GEORGE HIPWOOD, New York, N. Y. Filed Feb. 21, 1921. Serial No. 446,660. 3 Claims. (Cl. 135—54.)

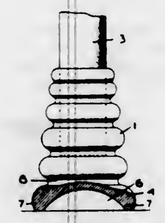
3. A tip element for a crutch comprising a body portion of hard rubber having a shape to fit over the end

of a crutch body, said body portion having a concave under face and provided at the periphery of the concavity with an annular bead of soft resilient rubber which is permanently secured to the hard body and which pro-



jects below the latter for a distance, whereby the cavity functions as a suction chamber, said hard rubber body having embedded therein above the cavity a concavo-convex plate.

1,429,429. CRUTCH TIP. GEORGE HIPWOOD, New York, N. Y. Filed Sept. 17, 1921. Serial No. 501,246. 3 Claims. (Cl. 135—53.)
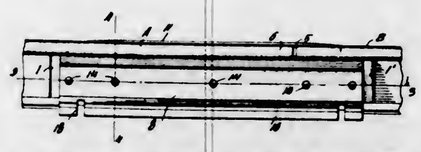


3. A crutch tip formed of yielding material as a one piece integral structure and having a recess in its upper end to receive the end of the crutch and a suction cavity in its lower end, said tip being formed with a plurality of annular exterior grooves, one at least of which is located in the portion of the tip between the suction cavity and the recess, said annular groove permitting a free lateral yielding movement of the recessed end of the tip with reference to the lower end so that a tipping of the crutch can take place without destroying the suction action, said tip having at its upper end means to interlock with the end of the crutch to prevent the tip from being pulled off from the crutch by the suction action.

1,429,430. EMULSION. HARRY N. HOLMES and DONALD H. CAMERON Oberlin, Ohio. Filed Apr. 27, 1921. Serial No. 465,020. 5 Claims. (Cl. 134—1.)

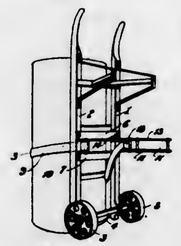
4. An emulsion of the "water-in-oil" type comprising a mixture of a liquid of the "water" type and a solution containing gum dammar.

1,429,431. RAIL JOINT. JOSEPH HRUSKA, Milwaukee, Wis. Filed May 7, 1921. Serial No. 467,634. 2 Claims. (Cl. 238—218.)



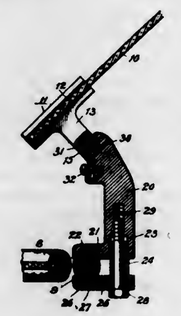
1. A rail joint comprising rail sections provided with relatively thickened web portions, said rail sections having beveled ends respectively overlapping, said bevel ends terminating in lateral projections extending beyond the outer face of the web portions, clamping plates on the opposite sides of the overlapping ends and provided with vertically disposed grooves to receive the said mentioned lateral projections formed on the overlapping rail sections, and means connecting the plates through the overlapping ends.

1,429,432. HAND TRUCK. WILLIAM F. IRRGANG, Springfield, Mass. Filed Sept. 17, 1921. Serial No. 501,365. 5 Claims. (Cl. 214—66.)



1. In a truck of the kind described, the combination with the upright side pieces of the same, of bars secured to said pieces and extending transversely of the uprights, a flexible band, having one end secured to said bars, lever means pivotally secured to said bars, a pin on the lever, a dog on the lever and spaced from the pin to receive the free or other end of the band therebetween, whereby when the lever is operated the band will be tightened, as described.

1,429,433. WINDSHIELD WING FOR AUTOMOBILES. WILLIAM R. JOHNSTON, Chicago, Ill., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1921. Serial No. 448,726. 3 Claims. (Cl. 296—84.)

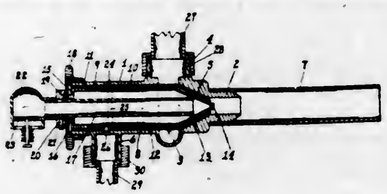


1. A wind shield wing for automobiles, comprising a plate and means for supporting the plate comprising an arm, a gripping jaw on said arm, a clamping member provided with a coacting jaw to grip a post, a sleeve and socket connection between said arm and said member, and a screw extending through the connection for securing said members together.

1,429,434. OIL BURNER. ADOLPH W. JONES, Oakland, Calif. Filed Jan. 24, 1920. Serial No. 353,779. 6 Claims. (Cl. 158—74.)

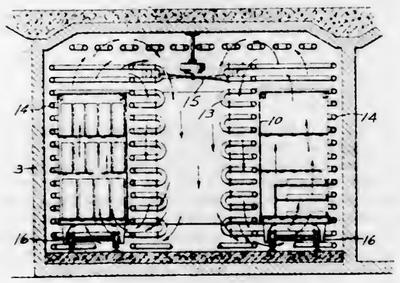
1. A burner including a casing formed with an outlet mixing chamber, a steam inlet and an oil inlet, a valve

sleeve controlling the admission of oil and steam into said mixing chamber, and an air intake valve for admitting air



into said mixing chamber under the influence of the action of the steam therein.

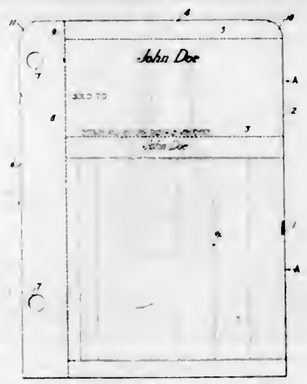
1,429,435. REVOLVING STORAGE DEVICE. ALEXANDER HOUSTON JONES, Glendale, Calif. Filed Apr. 16, 1921. Serial No. 461,953. 2 Claims. (Cl. 45—103.)



2. A structure of the character described comprising in combination a closed heat insulated chamber having a loading opening in one wall thereof and a discharge opening spaced therefrom, a revoluble container spaced from the top and bottom of said chamber to permit the circulation of atmosphere, said container being provided with vertical imperforate walls dividing it into compartments arranged to permit atmosphere to circulate vertically therethrough and for registration with said openings so that when compartments are in registration therewith they will be substantially closed off from the remainder of the chamber, said container having a stack at its center whereby atmosphere may be circulated through said compartments, refrigerating means in said chamber and means to circulate the atmosphere within said chamber.

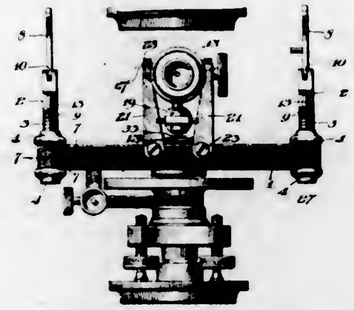
1,429,436. INVOICE SHEET. WILLIAM ASHLEY KELLY, Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 12, 1920. Serial No. 423,556. 2 Claims. (Cl. 281—43.)

1. For use in a typewriting machine, an entry sheet having rounded right and left upper corners for facilitating the insertion of the sheet in the typewriting machine and a square lower right corner, and comprising a body-part provided with a heading space and vertical columns for having successive entries typed therein, a lateral filing marginal part at one side of the body-part detachably connected therewith along a weakened line providing for easy detachment of the filing marginal part from the body-part when the entries on the body-part are complete, and a waste marginal part on the body-part detachably connected therewith along a weakened line providing for easy detachment of said waste marginal part from the body-part when entries on the body-part are complete, one of said upper rounded corners of the entry-sheet being formed upon the filing marginal part, and the other upper rounded corner of the entry-sheet being formed upon the waste marginal part, whereby one of said rounded corners will be removed from the entry-sheet by the detachment of each of the marginal parts, so that the removal of both of the



marginal parts will leave the entry-sheet in symmetrical shape with square corners.

1,429,437. CONVERTIBLE BUILDER'S LEVEL AND TRANSIT. WILLIAM F. KIEFER, Philadelphia, and JOHN HENRY WARREN, Jenkintown, Pa. Filed Jan. 14, 1922. Serial No. 529,126. 11 Claims. (Cl. 33—73.)



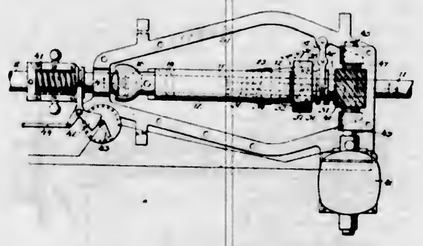
1. In a device of the character described, the combination with the telescope, the Y's to carry it and the Y support, of telescope supporting members permanently carried by said Y support and having means to support said telescope in one position and supplemental means pivotally mounted on said Y's support and foldable thereon and adapted when raised to form the bearings of the trunnions of the telescope at a right angle to said position, and means to lock said members in operative position.

1,429,438. ELECTROPLATING APPARATUS. FRED R. KLAUS and HARRY WM. KRANZ, Cleveland, Ohio, assignors to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 6, 1919. Serial No. 336,075. 17 Claims. (Cl. 204—5.)



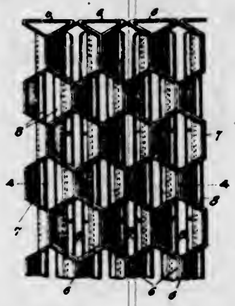
1. In an electroplating apparatus, a cleaner, pickling, washing and electroplating tanks and a continuous conveyor for carrying articles through the cleaner and into and out of the said tanks.

1,429,439. VARIABLE-SPEED GEARING. GUST E. KRANTZ and CARL A. KRANTZ, Chicago, Ill. Filed Nov. 12, 1921. Serial No. 514,532. 29 Claims. (Cl. 74—34.)



1. A variable speed gear embodying a driving shaft, a driven shaft, an intermediate shaft connected with one of the first two recited shafts, gearing connecting the intermediate shaft with the other of the said shafts, a floating member supporting the said intermediate shaft and the gear that is connected with the intermediate shaft, means interposed between the said floating member and the driven shaft for operatively connecting the floating member and the driven shaft and for disconnecting them, and means for retarding the rotation of the floating member to control the speed of rotation of the driven shaft.

1,429,440. RADIATOR CORE. JOSEPH A. KUENZ, Jackson, Mich. Filed Apr. 1, 1920. Serial No. 370,406. 5 Claims. (Cl. 257—130.)



1. A radiator core comprising a plurality of units with each unit composed of an elongated strip of sheet-metal with corrugated or crimped edges and folded intermediately of its length upon itself, the edges nesting in each other and secured together against leakage between them, the folded strip having laterally extended meeting faces with diagonal grooves crosswise of the inner faces between the edges and having ribs in relief on the outer faces, whereby the unit has a continuous zig-zag duct from top to bottom, the core being made up of a plurality of such units and the hollow ribs formed by the grooves in relief being located between the units to restrict the spaces formed thereby, and the united crimped nested edges providing mouths for admitting air between the units in close contact with the walls of the ducts formed by the communicating hollow ribs.

1,429,441. METHOD OF MAKING ELECTRIC CONDUCTORS. JACOB LIND, Kansas City, Mo. Filed Apr. 25, 1921. Serial No. 464,375. 2 Claims. (Cl. 173—13.)

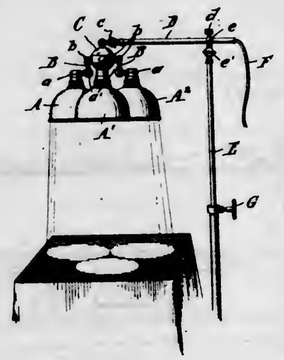
2. The method of insulating aluminum for carrying electric current which consists in heating the aluminum and then quenching the aluminum in a bath consisting of water, and soda.

1,429,442. DISPLAY BOX. FRANK XAVER LIST, New York, N. Y., assignor to National Card Mounting Company, New York, N. Y., a Corporation of New York. Filed June 27, 1919. Serial No. 307,137. 2 Claims. (Cl. 216—44.)



1. A display box comprising a blank stamped and cut to provide at one side of its median line a top with end walls at its opposite ends and side flaps carried upon the extremities of the end walls, said end walls and flaps being adapted to be folded into position upon the top to form the body portion of the box and said end walls further having upon their free longitudinal edges bottom pieces adapted to be folded over toward each other, said top also having a lid portion foldable upon one longitudinal edge remote from the median line of the blank and adapted to be turned over upon the body of the box in a direction opposite to the folding of said end walls, said blank having at the other side of its median line a bottom wall conforming substantially to the dimensions of said top and a side piece hinged between the inner longitudinal edge of the top and the adjacent longitudinal edge of the bottom and upon which said bottom is adapted to be folded to overlie said bottom pieces and with the side pieces lying against the adjacent side flaps of the box body, said bottom wall also having a second side piece hinged along the outer longitudinal edge of the bottom wall and adapted to be folded against the opposite side flaps for reinforcing the same.

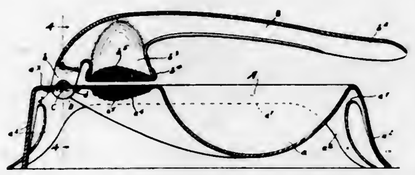
1,429,443. THERAPEUTIC DEVICE. HARRISON D. MCFADDIN, East Orange, N. J. Filed Feb. 15, 1919. Serial No. 277,207. 6 Claims. (Cl. 174—177.)



1. In a therapeutic device the combination of an adjustable standard, a supporting arm pivotally and slidably

supported on said standard and projecting laterally into space, a lamp carrying member pivotally associated with one free end of the supporting arm, a plurality of links pivoted to said member, a therapeutic lamp pivoted to each link, and means for locking each pivotal or slidable connection of the device, whereby the parts may be individually manipulated to project the light from the lamps in any desired direction and over widely varying areas of projected light, in accordance with the relative positions of the lamps and their supporting elements.

1,429,444. NUT BOWL AND CRACKER. BONNIE L. MALLORY, Cleveland, Ohio. Filed Dec. 22, 1919. Serial No. 346,565. 5 Claims. (Cl. 146—3.)



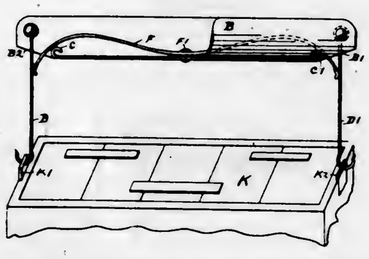
1. As a new article of manufacture, a combined nut bowl and cracker comprising a base having a depressed portion constituting a nut and shell receptacle and a flat portion adjacent to the side wall of the receptacle and surrounding a nut receiving depression, a lever, means pivotally connecting the lever to the base adjacent the nut receiving depression, and a cupped plate applied to the lever in opposed relation to the nut receiving depression.

1,429,445. LETTERING PROCESS. EDWARD L. MERRITT, Oakland, Calif. Filed Mar. 4, 1919. Serial No. 280,512. 2 Claims. (Cl. 41—31.)



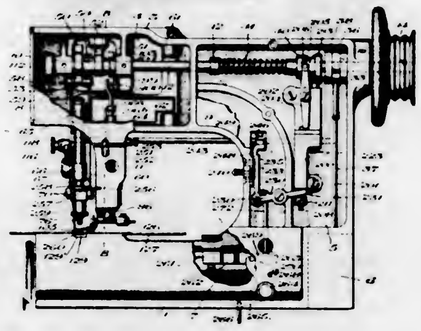
2. The process which consists in sticking a sheet of foil on a surface, such as a plate of glass, sketching a design on the foil, cutting the foil along the outline of the design and inside the outline, removing the foil outside and inside the skeleton design, varnishing over the design, and filling in the varnished skeleton letter with a body material.

1,429,446. HANDLE. FRED A. MORGAN, Selma, Calif. Filed Mar. 21, 1921. Serial No. 454,286. 4 Claims. (Cl. 220—94.)



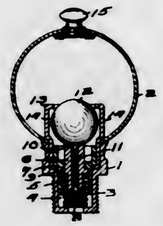
1. An auxiliary handle of the character described consisting of the combination of a rigid member having a hook pivoted at each end of said member, said hooks being adapted to hang approximately parallel, and spring means for normally holding the hooks apart.

1,429,447. STOP MOTION FOR PERFORATING MACHINES. DONALD NOBLE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Feb. 12, 1919. Serial No. 276,610. 23 Claims. (Cl. 164—87.)



1. In a perforating machine a drive mechanism including a clutch device, means movable in opposite directions for controlling the operation thereof, and connections from said means to said clutch device whereby when said means is held in its central position the clutch drives continuously and when said means is moved in either direction from its central position the machine is stopped after each revolution.

1,429,448. OIL CUP. HARRY G. NOBLE, Toledo, Ohio. Filed Jan. 10, 1921. Serial No. 436,060. 4 Claims. (Cl. 184—69.)

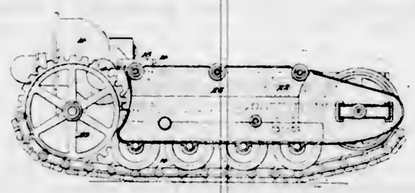


1. In an oil cup, a shell, an oil container secured to the shell, a tubular member located in the shell and communicating with the container, a spring for raising the tubular member, means for limiting the movement of the tubular member by the action of the spring, a ball seated on the end of the tubular member for closing the opening of the tubular member except as the ball may be tilted from the end of the passageway through the tubular member, a cage surrounding the tubular member for limiting the movements of the ball.

1,429,449. MAIN FRAME AND SUSPENSION FOR TRACTORS. EMIL F. NORELIUS, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 27, 1919. Serial No. 320,237. 5 Claims. (Cl. 180—9.1.)

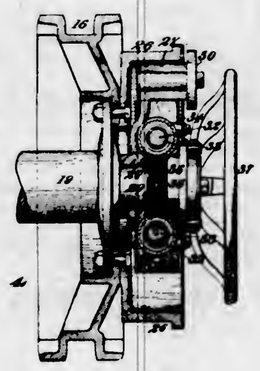
1. In a vehicle, a main frame having a body portion formed of pressed steel with a longitudinally extending

concavity continuous from end to end, said body portion serving to enclose the driving and operating parts of the tractor at the bottom thereof, a transversely extending



reinforcing member at each end of said body portion detachably connected thereto and a cross sill arranged intermediate the ends of the body portion and detachably connected thereto at the bottom thereof.

1,429,450. GUN-MOUNT BRAKE. EMIL F. NORELIUS, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 27, 1919. Serial No. 320,238. 5 Claims. (Cl. 180—9.1.)

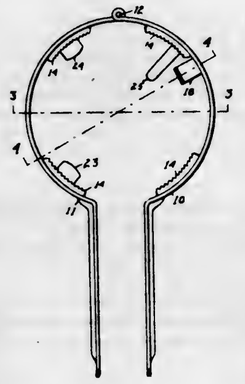


1. In a tractor, a main frame, a chain track truck mechanism at each side of the main frame, said truck mechanism including an endless chain track, a toothed sprocket wheel for driving the same and a load carrying truck within the track, a brake mechanism arranged on said sprocket wheel to restrain the latter against turning movement by thrusts imparted to it by the main frame, said brake mechanism comprising a drum fixed upon the sprocket wheel, internally expanding shoes co-operating with the drum and means connected with the load-carrying truck to hold the brake shoes against turning movement.

1,429,451. FIRE-RESISTANT COMPOSITION. GEORGE S. PEASE, West Carrollton, Ohio, assignor to John W. Latimer, Lakewood, Ohio. Filed Oct. 6, 1919. Serial No. 328,769. 7 Claims. (Cl. 106—29.)

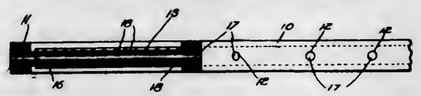
1. A fire-resistant composition comprising a cellular mass or body of oxy-chloride cement, the cells in said mass having therein and only partially filling the same particles of non-heat conducting material.

1,429,452. COMBINATION FRUIT-JAR OPENER AND SEALER. EDGAR V. PHILLIPS, Jamestown, N. Y. Filed Nov. 23, 1921. Serial No. 517,392. 5 Claims. (Cl. 81—3.1.)



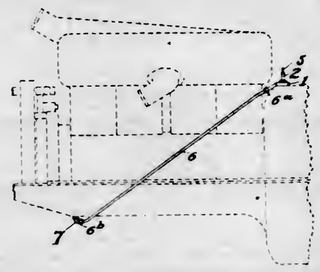
1. A tool of the class described, comprising two semi-circular shaped jaws hinged to each other, handles on said jaws, and a plurality of different sized fixed toothed curves on different levels on said jaws to clampingly fit jar caps of relatively large and small sizes.

1,429,453. INDUCTANCE DEVICE. HAROLD J. POWER, Somerville, Mass., assignor to American Radio & Research Corporation, Medford, Mass., a Corporation of Delaware. Filed Mar. 11, 1918. Serial No. 221,641. 17 Claims. (Cl. 175—360.)



1. In an inductance device, a spiral conducting ribbon, and an insulating and supporting member situated wholly between the edges of the conductor ribbon.

1,429,454. COMBINATION MAGNETO CONTACT AND OIL CONDUCTOR FOR ENGINE CRANK CASES. ROBERT W. RANSDELL, San Diego, Calif. Filed Feb. 1, 1921. Serial No. 441,700. 5 Claims. (Cl. 123—196.)



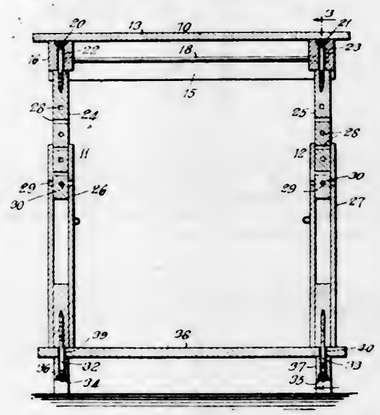
1. An apparatus of the class described including, a hollow contact support, a contact member adjustably mounted therein, a tube connected to said support and a

hollow connection member, secured to opposite end, threaded at one end, adapted to be secured in a threaded hole of the one conventional cap bolts of the crank casing.

1,429,455. FILLING COMPOSITION. REECE RICE, Indianapolis, Ind., assignor, by mesne assignments, to Rice Improved Valve & Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed Aug. 5, 1920. Serial No. 401,424. 4 Claims. (Cl. 106—8.)

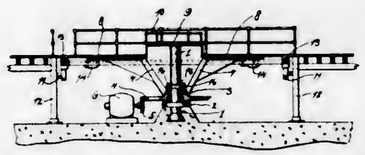
1. A packing for movable elements, comprising pulverized asbestos, thirty parts; wood fibre, twenty parts; ground hemp, twenty-five parts; and a starchy cereal, twenty-five parts.

1,429,456. KNOCKDOWN WARDROBE. HENRY E. RICHMOND, Bennington, Vt. Filed Dec. 31, 1921. Serial No. 526,100. 3 Claims. (Cl. 45—118.)



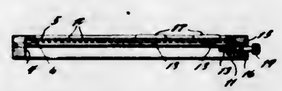
3. A knockdown wardrobe which comprises, a top having a horizontal supporting frame, a garment supporting rod mounted in the end members of said frame lengthwise of said top, a cover supporting means on said frame, sockets on said frame, upper and lower leg members adapted to be adjusted to form legs of different lengths, stud screws on said upper leg members adapted to fit into said sockets and mount said legs on said top, means for holding said leg members in their adjusted positions, feet adapted to be mounted on the lower ends of said legs and a bridge adapted to be positioned between said feet and said legs, said feet and leg members being adapted to be enclosed in said frame when dis-assembled and to be retained in said frame by said bridge member.

1,429,457. AMUSEMENT-PARK DEVICE. FRANK SALLMANN, Lyndhurst, N. J. Filed Jan. 17, 1921. Serial No. 437,720. 1 Claim. (Cl. 46—27.)



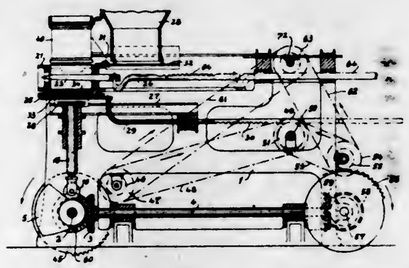
A device of the class described comprising an upright column, a sleeve rotatably mounted thereon, a groove in said column, balls mounted in said groove, said sleeve being loosely mounted about said column to allow a clearance, a flange on the extremity of said sleeve adjacent said balls, a platform mounted upon said sleeve, and means for rotating said sleeve.

1,429,458. DISPLAY DEVICE. DANIEL B. SAMUELS, New York, N. Y., assignor of one-fourth to Francis B. Bradley, Short Hills, N. J., and three-fourths to Interchangeable Lock Sign Co., Inc., a Corporation of New York. Filed Dec. 24, 1919, Serial No. 347,127. Renewed Feb. 21, 1922. Serial No. 538,369. 8 Claims. (Cl. 40—143.)



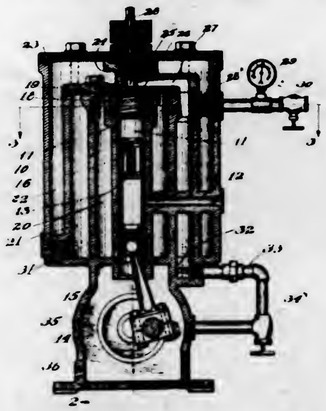
1. A display device comprising two superposed plates mounted for relative movement and each having a plurality of apertures, display characters and securing means carried by the characters adapted to enter aligned apertures in the respective plates and be locked therein by relative movement of said plates.

1,429,459. PRESS FOR THE MANUFACTURE OF STONES. CARL HEINRICH SCHOL, Allendorf, Dillkreis, Germany. Filed June 29, 1920. Serial No. 392,886. 11 Claims. (Cl. 25—45.)



1. In presses for the manufacture of stones, particularly from blast furnace slag, the combination of fixed abutments with moulds movable against the abutments, and means for raising the bottom in the mold substantially as and for the purpose described.

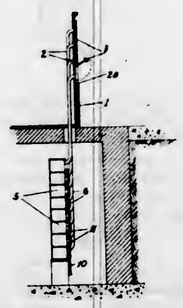
1,429,460. COMBINED COMPRESSOR AND CONDENSER. ALF SELROD, Chicago, Ill. Filed Aug. 15, 1919. Serial No. 317,723. 5 Claims. (Cl. 62—115.)



1. In a compressor, the combination of a cast metal casing having a cylindrical bore and integral annular

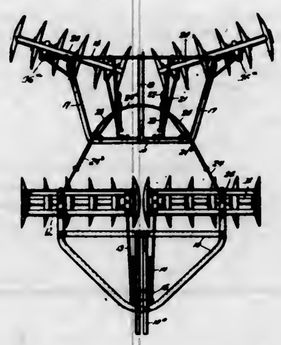
walls surrounding said bore to form a condensing chamber and water jacket concentric with said bore, heads for enclosing said chamber and jacket, ports connecting said chamber and said bore, valve mechanism for preventing back-flow through said ports, and means for compressing gas in said bore and forcing it through said ports into said chamber, said water jacket being in two annular portions, one within and the other outside of said chamber radially.

1,429,461. BANK SAVINGS SYSTEM. MARK H. SHADINGER and CLYDE M. JONES, Sacramento, Calif. Filed Feb. 7, 1921. Serial No. 443,011. 7 Claims. (Cl. 302—2.)



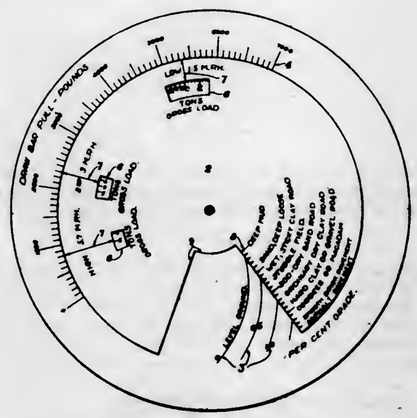
1. An individual savings system comprising an air tight tube terminating in a public place and adapted to receive money and the like therein, an air tight receptacle into which the tube discharges, a door over the outer end of the tube and normally forming an air tight seal therewith, a similar door for the receptacle openable at will and suction means for the tube and receptacle, whereby air from the outside will rush into the tube when the tube-door is opened, and means for shutting off the suction from the tube and receptacle when the door of the latter is opened.

1,429,462. TANDEM DISK HARROW. CHARLES S. SHARP, Auburn, N. Y., assignor to International Harvester Company, a Corporation of New Jersey. Filed Mar. 19, 1919. Serial No. 283,590. 7 Claims. (Cl. 55—83.)



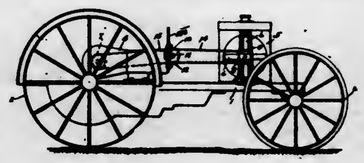
1. In a tillage implement, front and rear sections, a curved bar hingedly connected to one section at its ends and having its bight portion telescopically mounted on the other section, and stops on the arms of said bar for limiting its outward movement on said section.

1,429,463. CALCULATOR FOR TRACTOR PERFORMANCE. ALBERT R. SQUYER, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed May 24, 1920. Serial No. 383,738. 2 Claims. (Cl. 235—88.)



1. A calculator for tractor performance, comprising two cards rotatable relatively to each other, one of said cards bearing plotted designations pertaining to percentage of grade, and the other card bearing designations pertaining to the character of road to be negotiated, the two designations being in position to co-operate with each other, and one of said cards bearing also a scale pertaining to the hauling capacity of the tractor and a corresponding portion of the other card bearing indications pertaining to the gear ratio of the tractor, said designations and scales being so co-related that when the indicator for a given road condition registers with the indicator for a known grade, then the indicator for a given gear ratio will register with a graduation on the scale which correctly represents the capacity of the tractor under the conditions given.

1,429,464. TANDEM TWO-BELT FAN DRIVE FOR TRACTOR ENGINES. PETER H. THOMPSON, Rome Township, Faribault County, Minn. Filed Apr. 21, 1921. Serial No. 463,300. 4 Claims. (Cl. 180—1.)

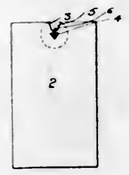


1. In a tractor having a radiator fan pulley and a pulley connected to the engine for driving the fan, a double loose pulley disposed between said pulleys, a belt for driving the same from the engine pulley and a belt extending from the loose pulley to the fan pulley and driving the latter.

1,429,465. TAG. CLARENCE CHARLES TOLO, Minneapolis, Minn. Filed Apr. 15, 1920. Serial No. 374,127. 2 Claims. (Cl. 40—20.)

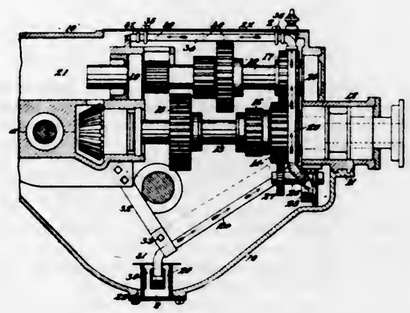
1. A tag having an angularly shaped opening therein and a notch in its edge, and a narrow gap forming a

communicating passage between the notch and opening, whereby threads, tape or ribbon may be introduced through the notch and gap into the opening, the opening being



shaped so that its edge adjacent the gap forms substantially a re-entrant angle, whereby the introduced threads, tape or ribbon are directed away from the gap.

1,429,466. OILING SYSTEM FOR TRANSMISSIONS. WILLIAM TURNBULL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif, a Corporation of California. Filed May 25, 1918. Serial No. 236,525. 8 Claims. (Cl. 184—6.)



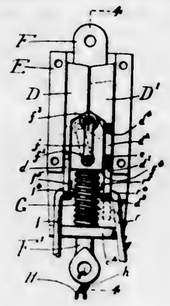
7. In a transmission mechanism, a housing, a variable speed gear transmission mechanism journaled in the housing, and a force feed oil circulating pump mounted within the housing and driven by the transmission mechanism to circulate a lubricant within the housing, a distributing pipe communicating with the pump, and a series of delivery tubes communicating with the distributing pipe, each tube extending over a set of gears in the housing and being in the same plane therewith.

1,429,467. BELT DRESSING. PEARL E. ULLRICH, Chicago, Ill. Filed Oct. 30, 1920. Serial No. 420,793. 7 Claims. (Cl. 134—7.)

3. A belt dressing consisting of the residue of wash oil from gas plants, after the aromatic, or solvent hydrocarbons have been distilled.

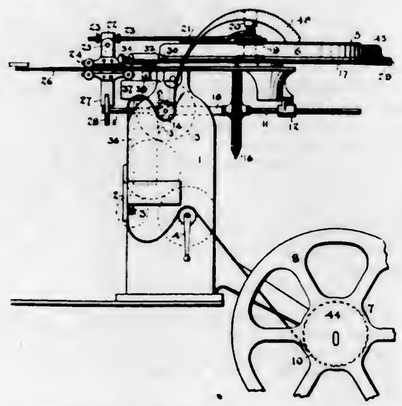
1,429,468. POWER-MECHANISM TRIP DEVICE. INNES T. VERDIN, Cincinnati, Ohio, assignor to The Verdin Kappes & Verdin Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 12, 1920. Serial No. 380,753. 2 Claims. (Cl. 192—116.)

1. In a clutch tripping device the combination with a trip bar, of means adapted to be reciprocated in parallelism and having centrally converging surfaces, means mounted on the trip bar and comprising a trip arm, a trip roller, and pivots connecting the trip arm to the bar and the roller to the arm, the arm and the roller being adapted to normally take a position in alignment with the point of convergence of the inclined surfaces and to be moved from such alignment by the movement of one of



the reciprocating means, and to be reciprocated in parallelism with the reciprocating means by the joint movement of the reciprocating means.

1,429,469. DELIVERING CINEMATOGRAPH FILMS FOR EXHIBITION. EDWARD JOHN WAY, Johannesburg, Transvaal, South Africa. Filed May 23, 1921. Serial No. 471,837. 11 Claims. (Cl. 88—18.7.)



1. In cinematograph apparatus, the combination with a projector and means for feeding film therethrough, of a carrier for unused film coil, a frictional driving connection between said feeding means and the carrier tending to drive said carrier to deliver film at a greater rate than the feeding rate, and means to reduce the speed of the carrier.

1,429,470. ENDLESS APRON FOR HARVESTERS. WILLIAM WEBBER, La Grange, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Mar. 6, 1919. Serial No. 281,051. 6 Claims. (Cl. 24—32.)



3. In an apron having a series of apertures spaced from one end thereof, straps longitudinally alined with

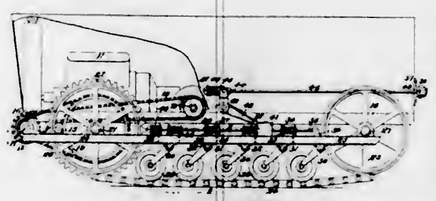
said apertures and extending outwardly from the opposite end of the apron, buckles secured to said apron adjacent said last named end whereby said straps may be passed through said apertures and over a portion of said apron to said buckles.

1,429,471. CAN OPENER. FREDERICK L. WHITCOMB, Clyde, Ohio. Filed Apr. 6, 1921. Serial No. 459,003. 3 Claims. (Cl. 30—3.)



1. A can-opener comprising a cutting blade member provided with fulcrum ears disposed at right angles thereto, and having a prolonged anchoring tang, said blade member being formed from a sheet steel blank; and a metal handle and an integral terminal guide member cast in a molten state about the tang and ears of the blade member.

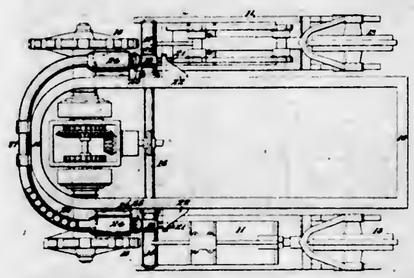
1,429,472. CONSTRUCTION FOR TRACTION ENGINES. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Oct. 24, 1918. Serial No. 259,583. 4 Claims. (Cl. 180—9.)



1. In a tractor construction, a main frame, track units at the opposite sides of said main frame and including driving sprockets, idler wheels, truck frames and track chains embracing the sprockets and wheels, means for pivotally connecting said truck units to the main frame at points in the rear of the driving sprockets, and yielding connections between the truck frames and the main frame permitting rocking movement of the truck frames about their rear pivotal connection with the main frame under operative conditions.

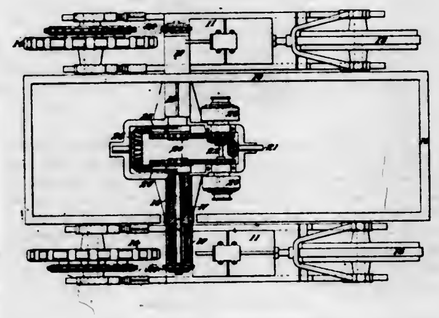
1,429,473. TRACTOR-FRAME SUSPENSION. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 29, 1919. Serial No. 327,283. 3 Claims. (Cl. 305—9.)

1. In a vehicle, a main frame, a chain track truck mechanism at each side thereof mounted for rocking movement in a vertical plane and equalizing connections between the main frame and opposite truck mechanisms comprising a ball race fixed upon the main frame, a series of balls in said race extending from one side to the



other of the main frame and brackets on each truck mecahnism co-operating with the balls in said race to cause opposite and equal movements of the truck mechanisms.

1,429,474. TRACTOR-FRAME SUSPENSION. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 29, 1919. Serial No. 327,284. 8 Claims. (Cl. 180—91.)

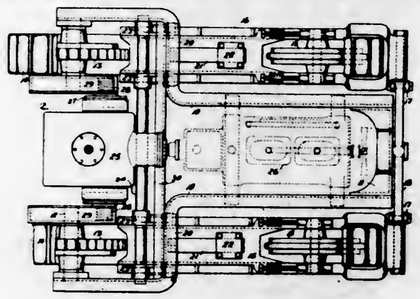


1. In a vehicle, a main frame, a claim track truck mechanism at each side, means for supporting the entire weight of the main frame at a single point on each truck mechanism, and connections included in said supporting means for stabilizing the main frame and causing equal opposite movements of the truck mechanisms about their points of connection with the main frame.

1,429,475. TRACTOR MAIN FRAME AND SUSPENSION. ELMER E. WICKERSHAM, Oakland, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Jan. 26, 1921. Serial No. 439,979. 9 Claims. (Cl. 305—9.)

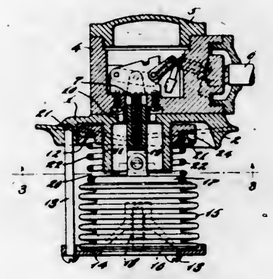
1. In a tractor of the self-laying track type a main frame formed of longitudinal sills and a front cross sill, the longitudinal sills being formed with a horizontal bend intermediate their ends, a driving sprocket wheel for the track at the rear of and inside of each longitudinal sill leaving the space between opposite driving wheels unobstructed for the reception of driving and steering mecha-

nism, a roller truck mechanism associated with each track, said longitudinal sills extending across the top of



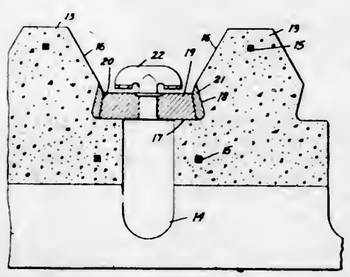
their respective truck mechanisms and continuing forwardly at the inside thereof.

1,429,476. THERMOSTAT. MAURICE A. WICKS, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 14, 1920. Serial No. 388,832. 3 Claims. (Cl. 200—140.)



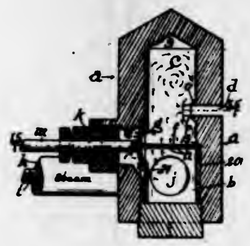
1. The combination with a supporting member having a hole, a depending threaded flange surrounding said hole, and an abutment ring adjustable along said threads, of an operating device projecting through said hole, an expansible metal vessel operatively engaging said device, a spring surrounding said flange and operatively engaging said abutment and opposing the expansion of the vessel, and means securing the further end of said vessel to said supporting member.

1,429,477. FILTER-BOTTOM CONSTRUCTION. JAMES E. WILLIAMSON, South Orange, N. J. Filed Aug. 17, 1921. Serial No. 492,956. 7 Claims. (Cl. 210—124.)



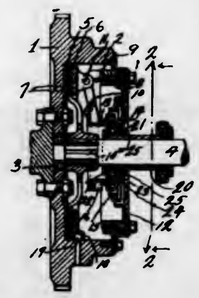
1. In construction of the character described, in combination, a main chamber, a bottom therefor, a plurality of spaced ribs extending transversely of said bottom and forming therebetween a plurality of transverse channels open at the top, separate means provided with a plurality of nozzles adapted to be bridged across adjacent ribs thereby to close said transverse channels, and a main channel connecting all of said transverse channels.

1,429,478. MEANS FOR BURNING CRUDE OIL. MARTIN F. WITT, Los Angeles, Calif. Filed Jan. 27, 1921. Serial No. 440,323. 7 Claims. (Cl. 158—75.)



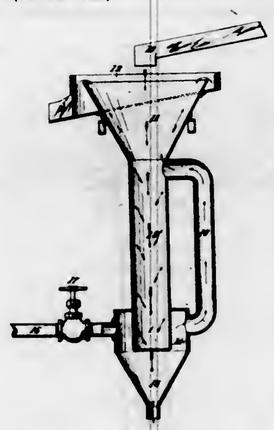
1. An oil burner having a compression chamber; means for supplying liquid fuel and an expansive medium to the compression chamber; a fuel dividing exit for the fuel and expansive medium during normal operation of the burner; and a valve-controlled exit from the compression chamber; the parts being arranged to direct the flow of expansive medium to remove obstructions from the top and bottom surfaces of the fuel dividing exit when the valve-controlled exit is opened.

1,429,479. CLUTCH-LEVER COLLAR. CLARENCE G. WOOD, Muncie, Ind., assignor to Hoosier Clutch Company, Muncie, Ind., a Corporation of Indiana. Filed July 18, 1921. Serial No. 485,636. 3 Claims. (Cl. 192—68.)



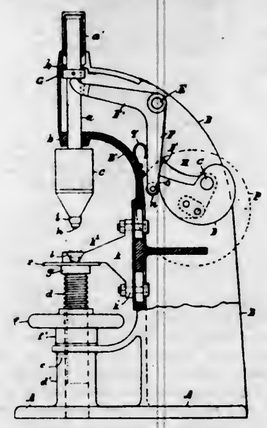
1. The combination with a clutch comprising a driven and a driving element, said driven and driving elements being locked together by means of levers having their arms terminating adjacent the driven shaft, of a collar surrounding said driven shaft, said collar being stamped from a single piece of material and provided with an annular flange, a spacer flange surrounding said collar adjacent said annular flange, said spacer collar being provided with spaced lugs secured to the annular flange of the collar, thereby forming spaced segmentally shaped lever engaging grooves carried by the collar.

1,429,480. ORE CLASSIFIER. CHARLES ALLEN, El Paso, Tex. Filed Nov. 5, 1918. Serial No. 261,191. 7 Claims. (Cl. 83—82.)



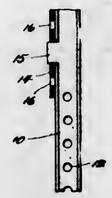
1. In the classification of fine ores, fine coal and the like in a sorting column wherein the material to be treated flows downwardly against the action of a rising current of water, causing the lighter product to overflow the rim of the column and the heavier product to pass out through a discharge orifice at the bottom of the column, that step which comprises the by-passing of a portion of the up-flowing stream from bottom to top of the column whereby to maintain a substantially uniform velocity of flow of the up-current in the column regardless of the volume of occupancy of the column by solid particles within usual working limits.

1,429,481. HARDNESS-TESTING MACHINE. JOSEPH G. AYERS, Jr., Montclair, N. J., assignor to Hyatt Roller Bearing Company, Harrison, N. J., a Corporation of New Jersey. Filed Mar. 31, 1921. Serial No. 457,493. 7 Claims. (Cl. 265—13.)



1. An apparatus for testing the hardness of metallic specimens, consisting of the base with column projected upwardly therefrom, a threaded support mounted upon the base, a goose-neck projected over the support and provided with bearings, a rod movable through the bearings with a standard weight secured to its lower end, a test-ball secured to the lower end of the weight, means for lifting and dropping the rod and weight, and means for holding the specimens to be tested upon the threaded support.

1,429,482. SHANK FOR EAVES-TROUGH SUPPORTS. MATTHEW RUSSELL BERGER, Philadelphia, Pa. Filed Feb. 6, 1922. Serial No. 534,311. 4 Claims. (Cl. 108—29.)

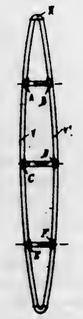


1. A device of the character stated comprising a stem of channel-iron apertured throughout the major portion of its extent for the adjustable support of a gutter supporting-arm, a side wall of said stem adjacent its top having projected therefrom a tongue disposed in a plane at right angles to the vertical axis of said stem and a plate rigidly secured below and near the stem top, said plate being penetrated by said tongue and being apertured for the reception of attaching means.

1,429,483. PROCESS OF MANUFACTURING UREA. CARL BOSCH and WILHELM MEISER, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany, a Corporation of the Grand Duchy of Baden. Filed July 9, 1920. Serial No. 395,149. 4 Claims. (Cl. 260—126.)

1. The process of manufacturing urea which consists in compressing a mixture of ammonia and carbon dioxid in about the proportions required for the formation of urea while said mixture is kept during compression at an elevated temperature to avoid the separation of ammonium salts, conveying the compressed gaseous mixture while maintaining said temperature, then reducing it to a melt by lowering the temperature and maintaining the melt at a temperature suitable for effecting the formation of urea.

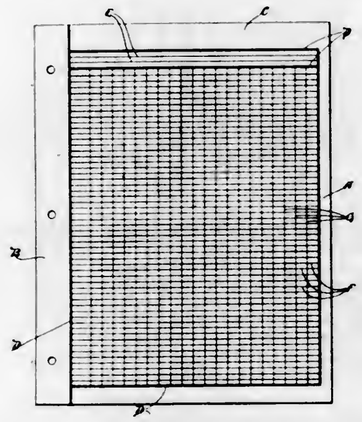
1,429,484. AIRCRAFT. LOUIS BREGUET, Velizy-Villacoublay, France, assignor to Société Anonyme des Ateliers d'Aviation Louis Bréguet, Paris, France. Filed Jan. 25, 1921. Serial No. 439,848. 4 Claims. (Cl. 244—31.)



1. An aircraft strut comprising two tubes of curved shape having their concave portions oppositely situated,

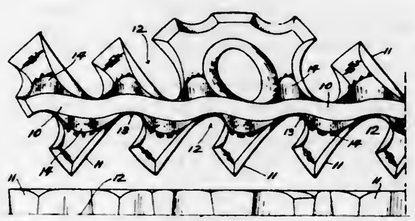
means for connecting together the ends of the said tubes, means for cross-connecting the two tubes, and means for securing the said strut to the longitudinals.

1,429,485. RULED SHEET. CHARLES A. BRITTAIN, St. Louis, Mo. Filed Apr. 13, 1921. Serial No. 460,904. 2 Claims. (Cl. 283—1.)



1. A sheet having thereon horizontal lines spaced to conform to the space units of the vertical movement of a typewriter platen and having also vertical lines spaced to conform to the space units of the horizontal movement of a typewriter carriage and intersecting said horizontal lines.

1,429,486. GRATE BAR. HORACE BUDD, Philadelphia, Pa. Filed Jan. 4, 1921. Serial No. 435,229. 1 Claim. (Cl. 126—167.)



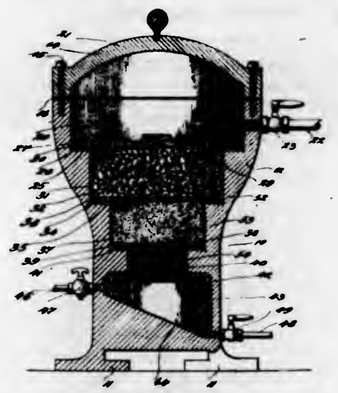
A grate bar comprising a web the longitudinal, opposite faces of which present fluted surfaces the convexed portions of said web materially increasing in thickness from the bottom to the top of said web, and a plurality of spaced teeth diverging from the opposite sides of said web in its thickest parts in staggered relation and so arranged that each space between adjacent teeth registers with a concaved portion of the web, the thickest part of each convexed portion merging upon a curved line with the underside of a tooth to form a reinforcement.

1,429,487. DEEP-WELL PUMP. WILBUR F. BUDLONG, deceased, late of San Jose, Calif., by Emma I. Budlong, executrix, San Jose, Calif., assignor to Campbell & Budlong Machine Works, San Jose, Calif., a Corporation of California. Filed Dec. 7, 1920. Serial No. 428,875. 3 Claims. (Cl. 103—102.)

1. A deep well pump comprising a tubular pump casing, a pump structure supporting the lower end thereof, a suction end casting disposed at the lower end of the pump structure, a driving unit at the upper end of the pump casing, a sectional non-rotating mandrel extending from the driving unit to the suction end casting, a sectional tubular pump shaft adapted to rotate around said mandrel, and bushings connecting the sections of the mandrel and forming bearing members thereon and around which the pump shaft has a running fit.



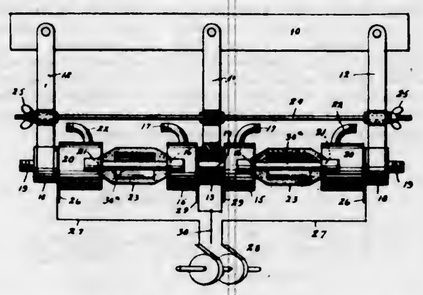
1,429,488. FILTER. ANGELO M. CAPRO, Philadelphia, Pa. Filed June 19, 1920. Serial No. 390,079. 6 Claims. (Cl. 210—103.)



1. A filter comprising an upright body having a plurality of progressively contracted chambers therein, a sediment chamber in the base of said body having an inclined bottom, an inlet to the uppermost of said chambers, outlets arranged at different heights in said sediment chamber, open meshed baskets in the intermediate chambers, said baskets containing filtering material, means for manipulating said baskets, and a single means for clamping said baskets in their respective chambers.

1,429,489. ELECTRIC FURNACE. MONROE S. CLAWSON, Upper Montclair, N. J. Filed July 13, 1920. Serial No. 395,872. 8 Claims. (Cl. 204—64.)

1. An electric furnace comprising a main supporting member, a central member carried thereby, side members pivotally mounted on said supporting member and movable toward or from said central member, revoluble heads mounted in said central member, other heads revolubly



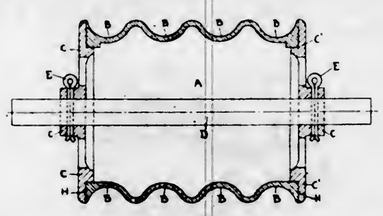
mounted within said side members, and resistance members engaged between said heads and adapted to hold the material to be heated.

1,429,490. SANITARY TOILET SEAT. HADLEY S. CRAYTON, Towanda, Ill. Filed Jan. 6, 1922. Serial No. 527,329. 2 Claims. (Cl. 4—18.)



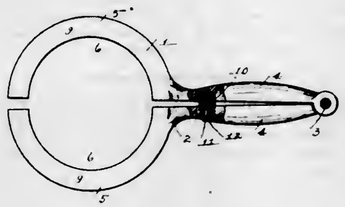
1. A sanitary toilet seat for use on water closet seats, comprising a base of saddle shape cross-section with spaced ears reaching inwardly from the lower edge of its inner pendent portion and with a tab reaching outwardly from the lower edge of its outer pendent portion, a pad of paper sheets corresponding in cross-section shape to and superimposed on the base and having an inwardly-directed flange arranged upon the ears of the base and also having a tongue portion arranged on the tab of the base, and means connecting the pad flange to the ears of the base.

1,429,491. PULLEY. ARTHUR DAVIDSON, Renfrew, Scotland. Filed Oct. 27, 1920. Serial No. 420,002. 1 Claim. (Cl. 242—117.)



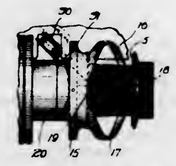
A drum, plates closing the ends of the drum and each having an annular flange entering the drum and a circumferential flange bearing against one end of the drum, said flange having a flat portion, said drum also having flat portions engaging those of the plates, and each plate also having a central bore and an outstanding hub, a spindle extending through the drum and through the bores and hubs of the plates, and split pins arranged in openings in the hubs and spindle, detachably securing the plates to the spindle and also detachably securing the plates on the ends of the drum.

1,429,492. CULINARY UTENSIL. ELROY DE ARMOND, Grand Rapids, Mich. Filed Feb. 23, 1922. Serial No. 538,737. 5 Claims. (Cl. 107—10.)



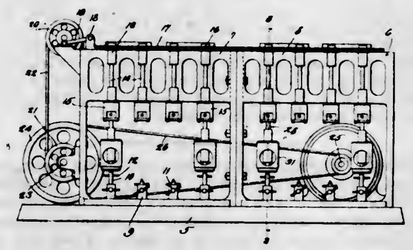
1. In a utensil of the character and for the purpose described; a pair of like members connected swingably to and from each other and respectively having oppositely disposed cooperating handle portions and oppositely disposed cooperating work-engaging portions adapted to surroundingly contact the work between them in the swung-together position of said members, the under sides of said work-engaging portions being in the same plane: a spring pressing said members apart; a stop limiting the separating movement of said members.

1,429,493. WINDING MECHANISM FOR STRANDS. CHARLES JOHN DE COSTER, Philadelphia, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 25, 1918. Serial No. 259,700. 5 Claims. (Cl. 242—18.)



1. In a winding mechanism, a winding spool, a rotatable spooling device having a single continuous guiding surface thereon and surrounding said winding spool, means for rotating said spooling device, and means for maintaining a pressure of the strand upon the guiding surface of the spooling device whereby the strand will be supported and laid upon the winding spool in smooth even layers by said guiding surface.

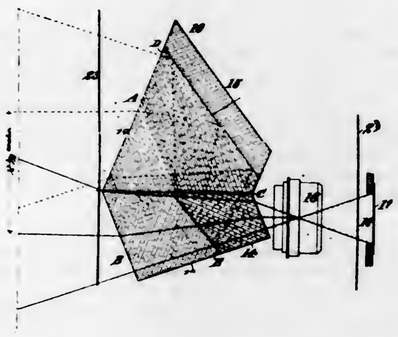
1,429,494. VALVE-GRINDING MACHINE. CHARLES DIEHL, Peru, Ind. Filed Oct. 28, 1921. Serial No. 511,216. 3 Claims. (Cl. 51—29.)



1. A valve grinding machine including a base, a frame supported by the base, operating rods extending through

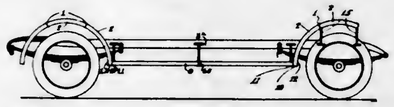
the frame and carrying pinions on the upper ends thereof, a reciprocable rack bar movable along the upper surface of the frame and contacting with the pinions to move the operating rods, supports mounted on the base, a centering pin mounted in each support, means for connecting a valve to the respective operating rods, said valve adapted to engage the centering pin associated therewith,. and means for reciprocating the rack bar.

1,429,495. METHOD OF AND APPARATUS FOR PRODUCING STEREOSCOPIC PHOTOGRAPHIC FILMS. LEON FORREST DOUGLASS, San Rafael, Calif. Filed July 14, 1919. Serial No. 310,738. 4 Claims. (Cl. 88—16.6.)



3. A prism for producing stereoscopic images comprising a prism block for direct transmission of rays and a reflecting prism block, one of said blocks having its incident face positioned at a right eye viewpoint and the other having its incident face positioned at a left eye viewpoint, and said reflecting prism block having an internal reflecting surface so positioned as to direct its rays upon the emergent face of the other prism block at such an angle as to cause re-reflection of the same in stereoscopic registration with the rays emerging from said direct transmission prism block.

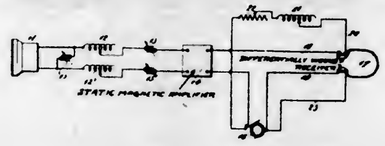
1,429,496. MUD OR SPLASH GUARD FOR VEHICLES. WILLIAM FAIRCLOUGH, Wigan, England. Filed May 26, 1919. Serial No. 299,783. 7 Claims. (Cl. 280—153.)



1. A mud or splash-guard for road vehicles comprising, in combination, two brackets or slips having upper and lower limbs and permanently secured to the vehicle at a spaced interval apart, and a single mud-guard unit of a length corresponding to the distance between the brackets and adapted to be slid in between the limbs of said brackets, so as to be engaged thereby at the ends, but removable therefrom when required.

1,429,497. METHOD AND APPARATUS FOR DETECTING, MEASURING, AND UTILIZING LOW-FREQUENCY IMPULSES. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed June 6, 1917. Serial No. 173,102. 2 Claims. (Cl. 177—352.)

1. The method of detecting and utilising low frequency comparatively inaudible impulses in the presence of disturbing high frequency impulses which consists in passing said low frequency impulses together with said undesired high frequency impulses through an amplifier whose amplification constant is the function of the ratio of the frequency in the amplified circuit to the frequency of the current to be amplified, and employing as the frequency of the amplified circuit a frequency of the order of one thousand per second, whereby said low frequency comparatively inaudible impulses are highly magnified and rendered highly audible, while said undesired high frequency impulses are substantially weeded out.



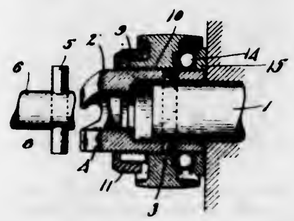
2. An apparatus for the detecting and utilization of low frequency impulses and for the elimination of undesired high frequency impulses, comprising a member adapted to receive both low and high frequency impulses, a weeding out circuit connected thereto and adapted to weed out the high frequency impulses, a static magnetic amplifier, and an electro magnetic indicating mechanism connected to the amplified side of the magnetic amplifier.

1,429,498. BELT DRESSING. ERNEST B. FOLSOM, San Francisco, Calif., assignor to Pacific Mill & Mine Supply Company, San Francisco, Calif., a Corporation of California. Filed Apr. 30, 1919. Serial No. 293,724. 5 Claims. (Cl. 134—8.)

4. A belt dressing made from wool grease, rubber, a solvent therefor, caustic soda and resin.

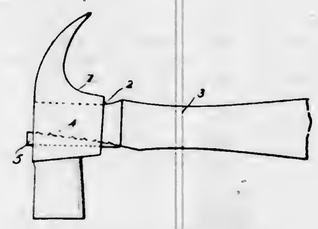
5. A method of producing a belt dressing which consists in melting wool grease and rosin and thereafter mixing and boiling the melted ingredients together, after which caustic soda is slowly added and worked into the mass the mixture then being boiled, and thereafter cooled, to a temperature of approximately 280°, at which time rubber in solution is added and the entire mass permitted to completely cool and solidify.

1,429,499. THRUST BEARING FOR CRANK SHAFTS. JOHN J. FRANK, Spokane, Wash., assignor to Arthur A. Proulx, Almira, Wash. Filed Sept. 3, 1919, Serial No. 321,421. Renewed Feb. 18, 1922. Serial No. 537,642. 1 Claim. (Cl. 64—49.)



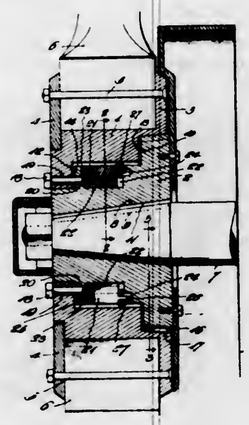
The combination in an engine starting device with a crank shaft, and an externally threaded, fixed, bushing having means for engagement of the starting handle, of a fan-belt driving pulley having internal threads to engage the bushing threads, said pulley having a series of longitudinal slots to form clamping tongues, an inner tapered locking nut engaging the tongues to lock the pulley on the bushing, a race ring against the fixed part of the engine frame, and ball bearings interposed between said ring and the pulley.

1,429,500. TOOL HOLDER. PHINEAS N. FREASE, Bothell, Wash. Filed Apr. 15, 1922. Serial No. 553,063. 1 Claim. (Cl. 306—33.)



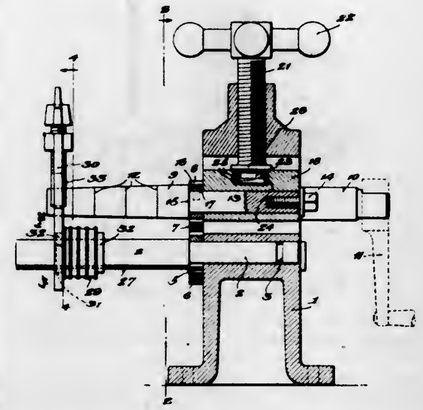
The combination with a hammer head having an eye therethrough, and a handle having a wedge-shaped cut-away portion in one edge of the part which passes through the eye, of a wedge-shaped member having serrations upon one of its faces and relatively fine teeth upon its opposite face, whereby the wedge member is adapted to be driven in the recess in the handle so that the serrations will engage and embed in the handle and the teeth will engage the wall of the eye in the hammer head to effectively lock the handle against movement in the hammer head.

1,429,501. WHEEL HUB. WILLIAM C. GEORGE, Clatonia, and FRED N. NORSGEA, Humboldt, Nebr. Filed Jan. 16, 1922. Serial No. 529,733. 5 Claims. (Cl. 301—9.)



1. In a demountable wheel, a hub structure including an inner spindle-engaging section and an outer spoke-carrying section fitting upon the inner section, the sections having their contacting faces provided with contacting abutment shoulders adjacent the inner and outer ends of the hub structure, blocks positioned in pockets formed in the inner hub section, and fasteners passing through alined openings in the hub sections and having their inner end portions engaging said blocks.

1,429,502. MACHINE FOR ENLARGING RINGS. ELIAS T. GOLDBERG, New York, N. Y., assignor to Rose Goldberg, New York, N. Y. Filed Mar. 26, 1921. Serial No. 455,935. 8 Claims. (Cl. 80—5.)



8. In a ring enlarging machine, a frame a block vertically movable therein, a stick borne by the block, a screw threaded through the frame and having a grooved lower end, means borne by the block to engage in the screw groove to allow the screw to rotate but to raise or lower the block as the screw is raised or lowered, a shaft, a circular block on the shaft, and means to drive the shaft and stick in unison.

1,429,503. TREATING PEAT FOR MANUFACTURING AN INSULATING MATERIAL. RUDOLF GRAEFFE, Brand-Erbisdorf, near Freiberg, Germany. Filed Jan. 6, 1921. Serial No. 435,567. 3 Claims. (Cl. 18—48.)

1. The herein described insulating material composed of peat being boiled in water and coal-tar-pitch having been brought to foam by preheating to about 200° C. being mixed with said peat during the boiling process whereafter the thoroughly mixed material is dried and treated according to its further use that is pressed and formed into plates, substantially as described.

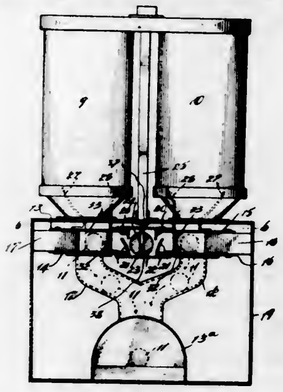
1,429,504. METHOD OF BLENDING WHEATEN. CHASTAIN G. HARREL, Liberty, Mo., assignor to The Campbell Baking Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 6, 1921. Serial No. 498,891. 3 Claims. (Cl. 99—10.)

1. The step in the method of controlling the fermentation period of the dough batch for bakery products which consists in determining the hydrogen ion concentration in the flour and permitting the dough batch in which the flour is incorporated to continue for a period of time having a definite relation to the hydrogen ion concentration present.

1,429,505. VENDING MACHINE. ELLES E. HARTMAN, East Jordan, Mich. Filed Oct. 23, 1920. Serial No. 418,926. 12 Claims. (Cl. 194—75.)

1. In a coin controlled apparatus, a container having an outlet, gates adjacent said outlet, each gate having an opening normally out of alinement with the outlet from said container, and actuating means dependent upon the presence of a coin therein to actuate said gates, one

at a time, to cause the openings therein to be positioned relative to the outlet from said container for the passage



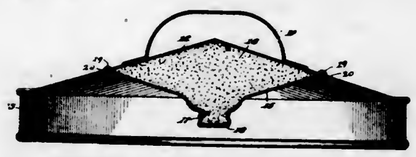
of an article from said container, the coin forming the connection between said gates and actuating means.

1,429,506. DOORMAT-OPERATED ANIMATED FIGURE. FREDERICK E. HERR, Barberton, Ohio. Filed Dec. 4, 1919. Serial No. 342,423. 10 Claims. (Cl. 46—40.)



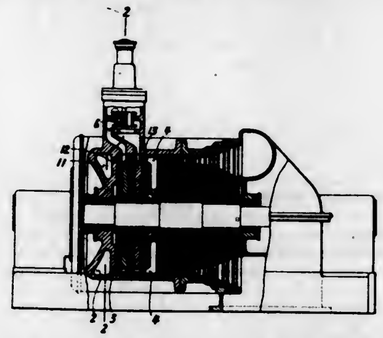
1. The combination with a door mat including a plate, a plurality of movable members connected to the plate, of an animated figure including a body member, a limb member pivotally connected thereto, and means for operatively connecting the limb member with the plate so that upon depression of any one of said members the limb member will be actuated.

1,429,507. CAN COVER. FRED H. JONES, Globe, Ariz. Filed Aug. 15, 1921. Serial No. 492,382. 1 Claim. (Cl. 220—23.)



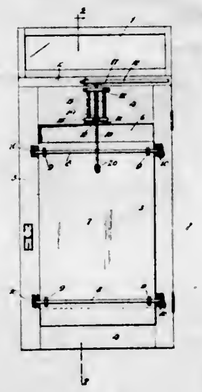
A weightable garbage can cover comprising an upwardly tapering top portion provided with an annular hollow bead, a dish-like downwardly sloping disk the outer edge of which extends into the chamber afforded by said hollow bead and attached to the under side of said top portion at said bead by solder, thus forming a chamber of considerable size adapted to hold a substantial amount of heavy material, said disk being provided with a depending threaded sleeve, combined with a screw cap fitted to said sleeve.

1,429,508. MULTIPLE-STAGE PRESSURE-STAGE TURBINE. JOSEF KARRER, Zurich, Switzerland, assignor to Maschinenfabrik Oerlikon, Oerlikon, near Zurich, Switzerland, a Corporation of Switzerland. Filed Feb. 19, 1920. Serial No. 359,801. 6 Claims. (Cl. 253—69.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



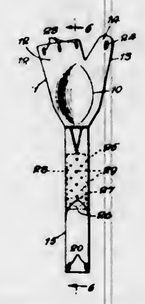
1. In a multi-stage pressure-stage turbine, a group of high-pressure stages, guide ducts of normal capacity partially supplying and permanently interconnecting said stages of said group, auxiliary guide ducts partially supplying a stage of said group, means for controlling the steam supplied by said auxiliary guide ducts to said stage, auxiliary guide ducts partially supplying a subsequent stage of said group, means for diverting steam from said first-mentioned stage to said auxiliary guide ducts of said subsequent stage and means for controlling the flow of steam from said first-mentioned stage along said diverting means to said auxiliary guide ducts of said subsequent stage.

1,429,509. DOOR. JOHN D. KOHER, Wichita, Kans. Filed Mar. 25, 1921. Serial No. 455,684. 7 Claims. (Cl. 20—16.)



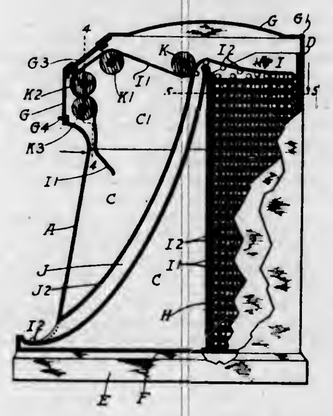
1. The combination of a horizontally swinging door having an opening therethrough, a screen fixed in the opening in the door, and means operable by movement of the door for uncovering the screen as the door is closed and covering the screen as the door is opened.

1,429,510. JOCK STRAP. THOMAS LA MAIDA, New York, N. Y. Filed Apr. 15, 1921. Serial No. 461,546. 3 Claims. (Cl. 128—160.)



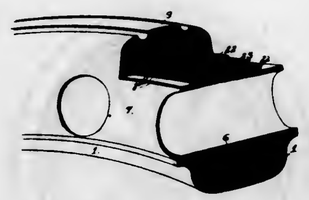
1. A jock strap, comprising a pocket element having, extending from part of its edge an approximately Y shaped flap member and tab member, both being adapted to be detachably fastened to a belt, a band protruding from a portion of the pocket opposite to the flap and tab members for being removably attached to the back of the belt and the band having in its central part a pocket, and a removable perforated flexible stay in the pocket of the band to prevent the band from wrinkling.

1,429,511. DISPENSING-MACHINE SUPPLY. HENRY HARRISON LAMB, Fountain City, Tenn. Filed Feb. 10, 1920. Serial No. 357,513. 3 Claims. (Cl. 206—29.)



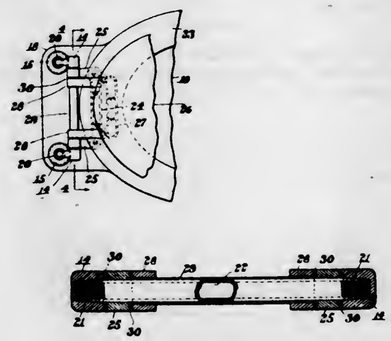
2. An article of manufacture for use in a dispensing machine, said article comprising a flexible ribbon and matches arranged transversely to the ribbon and secured to one face of the ribbon by means holding the match by a force which is less than the force which would be required to tear the ribbon or to break the match, substantially as described.

1,429,512. METHOD OF MANUFACTURING CUSHION TIRES. HENRY M. LAMBERT, Portland, Oreg., assignor to Lambert Tire and Rubber Company, Portland, Oreg., a Corporation of Arizona. Filed May 4, 1921. Serial No. 466,812. 9 Claims. (Cl. 154—12.)



1. The method of manufacturing cushion tires which consists in building up a base layer on a suitable ring or rim, then placing cushion blocks at intervals radially on said base structure and subsequently building up over the cushion blocks a tread structure to form a tire carcass of greater cross sectional area than the finished product, then applying a constricting pressure to the outer surface of the carcass and simultaneously applying an expanding pressure in the holes between adjacent cushion blocks and vulcanizing the carcass while under pressure.

1,429,513. HINGE. FREELAND D. LESLIE, Milton, Mass., assignor to B R E Manufacturing Company, Hyde Park, Mass., a Corporation of Massachusetts. Filed Oct. 15, 1921. Serial No. 507,883. 6 Claims. (Cl. 4—18.)

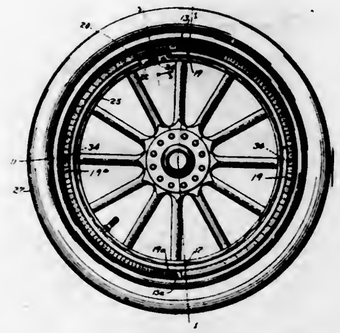


1. A hinge leaf having parallel arms; a separate tubular member interposed between said arms with its ends secured therein; a cylindrical member extending through and beyond the ends of said tubular member; and standards having sockets to receive the opposite ends of said cylindrical member adjustably secured thereto.

1,429,514. PURIFICATION OF ANTHRAQUINONE. HARRY F. LEWIS, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 22, 1920. Serial No. 432,400. 10 Claims. (Cl. 260—57.)

5. The method of purifying impure anthraquinone which comprises dissolving the same together with soluble impurities in hot technical o-dichlor-benzol, cooling the resulting solution to crystallize the anthraquinone therefrom, and separating the resulting solution of impurities from the purified anthraquinone.

1,429,515. TIRE-MOUNTING RIM. WALKER BLAINE LUCAS, Harlowton, Mont. Filed Feb. 8, 1921. Serial No. 443,441. 1 Claim. (Cl. 301—11.)



An annularly divided tire mounting rim embodying a main annular section and an auxiliary annular section, each of which provides reversely paired internal half spiral elements that are suitably spaced and complementally adapted for interlocked wedging engagement, when said auxiliary section is fitted laterally within said main section and given a substantially half turn therein in one direction, and being correspondingly released for bodily removal upon a substantially half turn in the reverse direction.

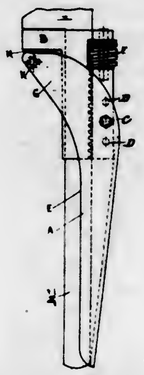
1,429,516. LAND LEVELER. HARRY R. LYTLE, Sacramento, Calif. Filed Aug. 4, 1920. Serial No. 401,097. 2 Claims. (Cl. 37—7.)



1. A land leveler comprising a leveling blade, draft bars rigidly connected thereto, carrying wheels at the rear of the blade, a forwardly extending crank axle on the wheels pivotally connected to the rear of the blade and means for controlling the elevation of the blade comprising a rigid bracket on the rear of the blade, a lever fulcrumed intermediately on said bracket, a crank arm on the crank axle and a link pivotally connected to the crank arm and lever.

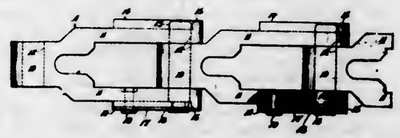
1,429,517. COMBINED NUT AND PIPE WRENCH. JOHN MCGHEE, Glasgow, Scotland. Filed Nov. 9, 1920. Serial No. 422,929. 3 Claims. (Cl. 81—171.)

1. A combined nut wrench and pipe wrench, comprising a shank, a fixed jaw thereon, a sliding jaw, means to adjust the sliding jaw with reference to the fixed jaw, said sliding jaw forming the lower jaw of the nut wrench and also the upper jaw of the pipe wrench, and a third jaw pivotally connected to the sliding jaw and also having



an operating shank, said third jaw forming the lower jaw of the pipe wrench.

1,429,518. LINK PIN FOR DREDGER-BUCKET CHAINS. ARTHUR MCMAHON, Scotia, Calif. Filed May 12, 1920. Serial No. 380,806. 1 Claim. (Cl. 74—32.)

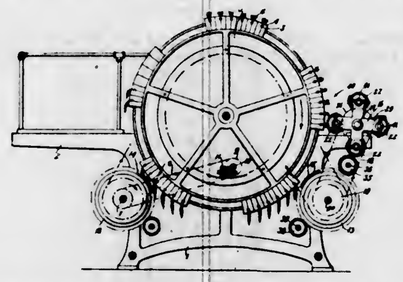


The combination of dredger bucket chain links comprising spaced sides and a head connecting the sides at the inner ends thereof, each side being provided at its outer faces with a longitudinal enlargement having a longitudinal recess extending from the inner end of the enlargement and terminating short of the outer end of the same to form an outer end wall for the recess, each link having its head fitted between the sides of a contiguous link, the said links being provided through their heads and through their sides at the outer ends of the recesses with transverse aligning openings, a hinge pin passing through the aligning openings and connecting the links, said pin being of cylindrical form to permit it to rotate freely in the said openings and provided at one end with an annular groove, a flat locking plate arranged in one of the recesses and agreeing in form and depth with the same so as to nest snugly therein, said plate being formed with an open ended fork at one end, the arms of which extend into the annular groove of the pin at opposite sides thereof to retain the pin in the said openings, and a fastening device detachably securing the plate within the said recess in fixed relation with the link on which it is mounted and with its forked end at the closed end of the said recess.

1,429,519. COMBING DEVICE FOR TEXTILE FIBERS. AUBREY E. MEYER, White Plains, N. Y. Continuation of application Serial No. 162,602, filed Apr. 17, 1917. This application filed Aug. 29, 1918, Serial No. 251,030. Renewed Feb. 24, 1922. Serial No. 539,038. 19 Claims. (Cl. 19—117.)

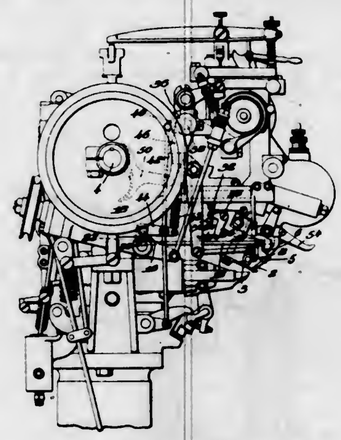
17. In apparatus for combing fibers, the combination of a support, a combing cylinder mounted on said support to yield about its axis, means for producing relative

movement between the cylinder and the fiber to be combed for combing the fiber, and adjustable frictional gripping means for regulating the yielding movement of the cylin-



der about its axis so that when the teeth place the fibers being combed under such tension as to unnecessarily cut or break them, the cylinder will yield about its axis.

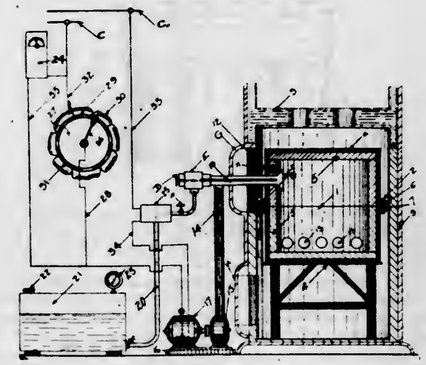
1,429,520. SEWING MACHINE. WILLIAM C. MEYER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed May 6, 1916. Serial No. 95,893. Divided and this application filed Sept. 6, 1918. Serial No. 252,968. 7 Claims. (Cl. 112—252.)



1. An inseam shoe sewing machine having, in combination, stitch-forming devices, a thread gripping device comprising relatively movable thread gripping jaws arranged to receive the thread as the shoe is removed from the machine by the operator and to hold the free end of the thread under tension during the first part of a seam formation and means for controlling and relatively actuating the jaws of the gripping device to cause the same to lie relatively in open positions to receive the thread when the work is removed from the machine and to lie in closed positions so as to grip the thread during the formation of at least the first stitch upon starting the machine.

1,429,521. OIL BURNER. FREDERICK FRASER MILLER, Napanee, Ontario, Canada. Filed Feb. 24, 1921. Serial No. 447,613. 2 Claims. (Cl. 158—1.)

1. An apparatus, using liquid fuel for generating heat, for use with a furnace or a boiler, and being a combination of a combustion chamber made of heat resisting and nonconducting material or materials, and so constructed, with reference to the furnace or boiler, as to retain within itself a self firing degree of temperature for some time after the fuel is cut off, with means for spraying a



fuel mixture into the combustion chamber, and with means for intermittently cutting on and off the fuel mixture in such a manner that it is on often enough and long enough, to keep the temperature of the combustion chamber at all times above the firing point of the fuel mixture, all substantially as described.

1,429,522. MANUFACTURE OF FINELY DIVIDED SULPHUR. ALWIN MITTASCH and FRITZ WINKLER, Ludwigshafen-on-the-Rhine, Germany, assignors to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany, a Corporation of Germany. Filed Aug. 19, 1921. Serial No. 493,650. 6 Claims. (Cl. 23—10.)

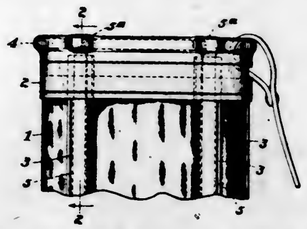
5. The process of manufacturing sulphur in a very finely divided state by decomposing by evaporation an ammonium sulfid solution containing a protective colloid, and separating the colloidal sulphur from the liquid.

1,429,523. TRUNK BED. FRED MOORE, Aurora, Ill. Filed Aug. 30, 1921. Serial No. 496,879. 2 Claims. (Cl. 190—2.)



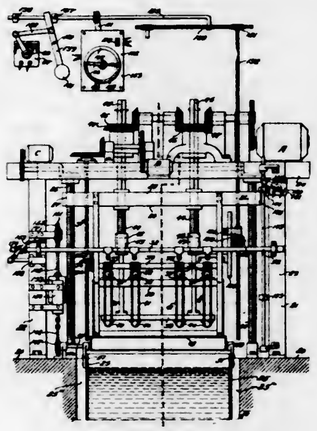
1. In a trunk bed, the combination of a casing provided with drawers in its rear portion and with a compartment in its front portion, a mattress in the compartment against the drawers and holding the drawers in a closed position, and a door on the casing and closed against the mattress for holding the mattress in the compartment.

1,429,524. CADDY BAG. HARRY A. MYERS, Philadelphia, Pa., assignor to George A. Reach, Philadelphia, Pa. Filed Jan. 12, 1922. Serial No. 528,755. 2 Claims. (Cl. 150—1.5.)



2. A caddy bag having a reinforcing ring embedded in the top thereof, and stays of resilient sheet metal embedded in the sides thereof held against longitudinal movement, said stays having hook shaped ends embracing the reinforcing ring, the openings to the hooks being of less diameter than the diameter of the ring whereby they may be sprung into engagement with the ring and held thereon by the resiliency of the metal.

1,429,525. CONTROLLING MEANS FOR MERCERIZING MACHINES. FRANK H. OLDEN, Chester, Pa. Filed Aug. 17, 1921. Serial No. 492,906. 16 Claims. (Cl. 8—20.)

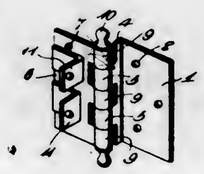


1. The combination with a yarn mercerizing machine including means operative to stretch said yarn, of a device including means adjustable into predetermined positions to allow movement of said stretching means to different extents and to effect the stopping of said stretching means after having moved to said extents whereby stretches differing in length can be imparted to said yarn; substantially as described.

1,429,526. METHOD OF DETERMINING CONDITION OF DOUGH FOR BAKERY PRODUCTS DURING FERMENTATION PROCESS. CURTIS J. PATTERSON, Kansas City, Mo., assignor to The Campbell Baking Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 29, 1921. Serial No. 496,770. 3 Claims. (Cl. 99—10.)

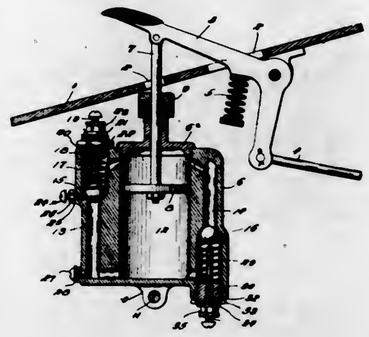
1. The process of determining the condition of dough for bakery products during the fermentation process which consists in mixing the doubh batch, allowing the same to ferment for a suitable time, and determining the hydrogen ion concentration.

1,429,527. HINGE. HENRY A. PAUL, Muskogee, Okla. Filed Sept. 2, 1920. Serial No. 407,691. 2 Claims. (Cl. 16—135.)



1. A hinge comprising a pair or hingedly connected leaves provided with apertures adapted to receive screws by which said leaves may be attached to one side of a door and its jamb, and a right angular member having one of its arms disposed flat against one side of one of said leaves and rigidly fastened thereto and its other arm extending laterally therefrom and provided with an aperture adapted to receive a screw by which said other arm may be attached to another side of the door jamb.

1,429,528. THROTTLE-CONTROL MECHANISM. PEARSON M. PAYNE, Pittsburgh, Pa. Filed Nov. 6, 1920. Serial No. 422,349. 2 Claims. (Cl. 188—97.)



1. A dash pot capable of containing fluid, said pot having a central opening, said pot having by-passes, said passes having valves therein, said valves being spring controlled, means to vary the force of said springs, and means to fix the maximum opening of said valves.

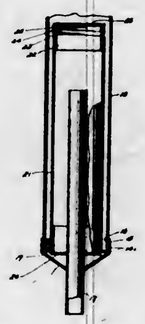
1,429,529. COMPOUND WIRE ROPE. GEORGE PYBURN, Airdrie, Scotland. Filed Oct. 11, 1920. Serial No. 416,100. 1 Claim. (Cl. 117—59.)

A compound wire rope strand comprising two straight core wires arranged in parallel relation, six wires covering the core wires, and of twice the diameter of said core wires, said six wires being arranged in a lay or twist, and a plurality of outer wires of greater diameter than said six wires and also arranged in a lay or twist,



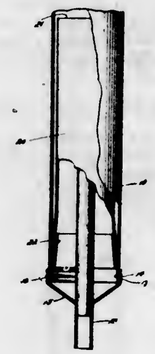
of the same length as that of the said six wires, the length of the lay on the rope being twice that of the lay on the strands.

1,429,530. VACUUM CLEANER. EDWIN A. REEVES, Milford, Conn. Filed Apr. 15, 1920. Serial No. 374,112. 1 Claim. (Cl. 183—67.)



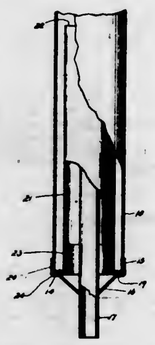
A vacuum cleaner, composed in part of a substantially cylindrical receptacle, a nozzle pipe, a conical head, having straight flange portion, and secured to said nozzle pipe so that said straight flange portion is substantially parallel with the axis of said nozzle pipe, a cup of less diameter than the inside diameter of said receptacle fixed to said nozzle pipe adjacent to and inside of said conical head with its open end facing the same end of said nozzle pipe as that of said conical head, and a flexible bag fixed to and in part enclosing said cup, and projecting beyond one end of said nozzle pipe, both said receptacle and the straight flange of said conical head being threaded, whereby the said conical head, nozzle pipe, cup and flexible bag may be detachably secured as a unit to said receptacle.

1,429,531. VACUUM CLEANER. EDWIN A. REEVES, Milford, Conn. Filed Apr. 15, 1920. Serial No. 374,113. 1 Claim. (Cl. 183—73.)



A vacuum cleaner composed of a cylindrical receptacle of substantially uniform diameter and threaded at one open end which is at the bottom of the receptacle when the same is in its operative position; a dust bag also having one open end; a conical collar projected into and held by friction within the open end of said dust bag which is also held by friction inside of said receptacle by reason of said conical collar, the larger end of which is adjacent to the threaded portion of said receptacle; a head secured to the threaded portion of said receptacle; and a nozzle tube secured to said head so that a portion thereof projects through said conical collar into said dust bag and another portion thereof projects outside of said head, said head and nozzle tube forming a closure for the open end of said receptacle.

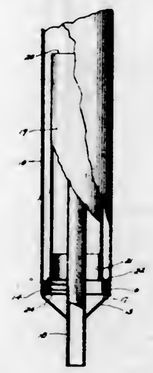
1,429,532. VACUUM CLEANER. EDWIN A. REEVES, Milford, Conn. Filed Apr. 15, 1920. Serial No. 374,114. 1 Claim. (Cl. 183—66.)



A vacuum cleaner, composed of a cylindrical receptacle having an internally projecting flange at one end with an opening therethrough and exteriorly threaded adjacent to said flange, a nozzle tube, a head having a conical portion secured to said nozzle tube, a cylindrical portion, with an open end interiorly threaded, for engagement with the threads upon said receptacle, a flange portion between said conical portion and said cylindrical portion and at substantially a right angle thereto, a cylindrical sleeve

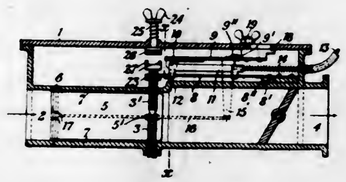
the body of which projects into said receptacle through the aforesaid opening of the flange of the cylindrical receptacle, and having an outwardly projecting flange at one end that is held between the receptacle flange and the flange on said conical head when the parts are all assembled and entirely enclosed and substantially air tight without the use of packing, and a cloth dust bag stretched over said sleeve and thereby held in frictional engagement therewith.

1,429,533. VACUUM CLEANER. EDWIN A. REEVES, Milford, Conn. Filed Apr. 15, 1920. Serial No. 374,115. 3 Claims. (Cl. 183—73.)



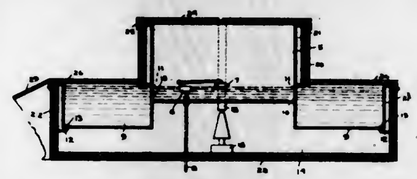
1. The combination in a vacuum cleaner, of a dust bag, a receptacle having threads or corrugations at one end thereof; a head having a cylindrical portion and an inner band concentric therewith, both said cylindrical portion and inner band being threaded, the latter being threaded within the open end of said dust bag, and threadedly engaging the thread upon the inside of said inner band.

1,429,534. CARBURETOR. HAROLD GEORGE RENNER, Gisborne, New Zealand. Filed Feb. 4, 1919. Serial No. 274,889. 2 Claims. (Cl. 261—50.)



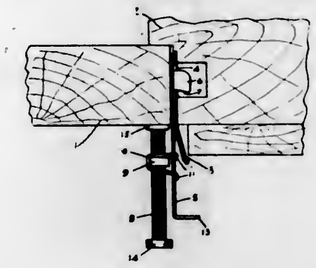
1. In a carburetor of the character described, a casing having a choke tube therein comprising a pair of suction operated walls, a jet tube projecting into the choke tube and on which said walls are adapted to converge, a needle valve controlling the outlet of said jet tube, suction operated flaps in the choke tube adapted to converge, means for communicating the movements of said walls to the needle valve, said means including a pivoted control arm mechanically connected to the walls, a needle valve arm carrying the needle valve and arranged substantially parallel to the control arm, an adjustable member movable between said arms, and yieldable means acting on the needle valve arm to prevent lost motion thereof.

1,429,535. STOCK WATERER. JAMES E. W. RICHARDS and CHARLES E. RICHARDS, Arapahoe, Nebr. Filed June 25, 1920. Serial No. 391,692. 1 Claim. (Cl. 119—73.)



A stock waterer comprising a reservoir and a fount having a common wall, the bottom of the reservoir being located at a higher level than the bottom of the fount, a water supply pipe entering the reservoir, a float-actuated valve controlling the passage of water from the pipe to the reservoir, and means for heating the water in the reservoir, said wall having an elongated slot disposed close to the bottom of the reservoir and below the valve, said wall having spaced openings disposed above the slot and of small area compared with the area of the slot, the slot affording a relatively free circulation of water between the fount and the reservoir when the water is in use and decreasing a surface circulation tending to carry excessively heated water in the reservoir through the openings and affording a slow surface circulation between the fount and the reservoir when the water is not in use.

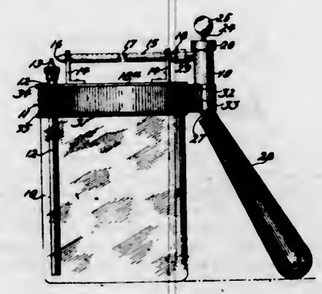
1,429,536. DOOR FASTENER. FRANK T. ROBINSON, Louisville, Ky., assignor of one-half to Casca T. Howland, Petersburg, Va. Filed Mar. 15, 1921. Serial No. 452,539. 5 Claims. (Cl. 292—291.)



1. In a door fastener the combination with a door, a casing therefor, and a latch plate having a slot therein, of a plate having a plurality of transversely extending slots therethrough, a tongue on said plate adapted to enter the slot in the latch plate, a locking bolt, a bracket carried by the locking bolt having lateral extensions adapted to engage the slots in the second plate, and a nut between the arms of said bracket for causing said bolt to travel lengthwise when rotated.

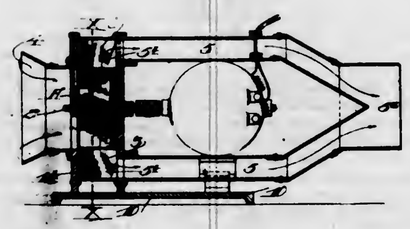
1,429,537. AIR BRUSH. WERNER F. ROTHERMUND, Brooklyn, N. Y. Filed Mar. 15, 1921. Serial No. 452,544. 12 Claims. (Cl. 91—45.)

1. In an air brush the combination with a container, of a removable cover therefor, a liquid outlet tube and an air tube mounted on said cover, a handle for said container, means associated with the handle adapted to frictionally engage the cover, and a valve at the upper end



of said handle, said valve being adapted to have connection with the air tube when said holding means is engaging the cover.

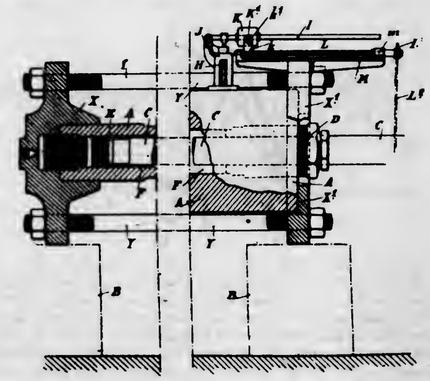
1,429,538. TRANSMITTING FAN. MARK P. SCHETZEL, Oakland, Calif. Filed Oct. 21, 1920. Serial No. 418,366. 2 Claims. (Cl. 253—195.)

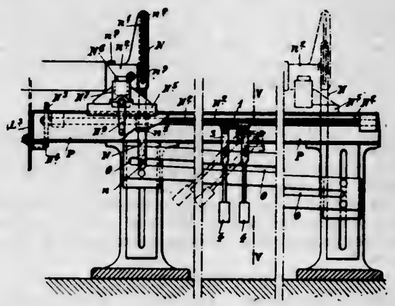


1. A device of the character described comprising a cylindrical shaped casing, an inner cylindrical casing concentric therewith and interspaced to form an annular discharge passage, a head member forming a closure for the forward end of said inner casing, a cone-shaped cover forming a cover for the opposite end, a converging casing forming an extension of the first named casing and surrounding the cone to produce a contracted annular discharge passage, a shaft journalled in the front head of the inner casing, a fan secured on said shaft and rotated thereby, a drum surrounding the fan, said drum having a diameter substantially the same as the first named exterior casing and being secured thereto and forming an extension thereof, an inlet opening in said drum in alignment with the fan, and a series of stationary radially disposed air directing blades secured within the drum to prevent whirling of the air discharging from the fan.

1,429,539. APPARATUS FOR PRODUCING HOOPING EFFECTS IN METAL TUBES. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Oct. 29, 1920. Serial No. 420,523. 25 Claims. (Cl. 29—1.11.)

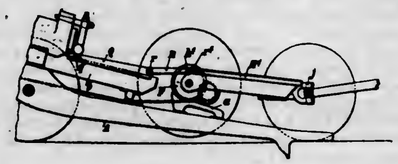
1. In an apparatus of the character described, a movable mandrel projecting through one end of the tube being treated and having a head at its opposite end, a duct formed in said tube near the end through which the mandrel projects, a loaded valve in said duct, guide means supported independently of said tube, mechanism engaging said guide means and actuated by the mandrel





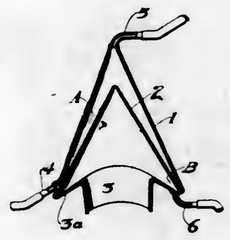
on movement thereof, and means controlled by said mechanism for automatically regulating the load of said valve.

1,429,540. TWO-AXLED VEHICLE FOR TRANSPORTING HEAVY GUN BARRELS, AND IN THE ADAPTATION OF GUNS FOR THE USE OF SUCH VEHICLE. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Jan. 4, 1922. Serial No. 526,986. 14 Claims. (Cl. 89—40.)



12. A gun-transport vehicle comprising a gun-receiving frame, a rear carriage on which said frame is mounted, a front carriage, and connections between said front and rear carriage providing for independent elevation of one of said carriages and sliding movement of the same transversely of the other carriage, said connections including a sleeve rotatably and slidably mounted on the front carriage axle, and means for moving said sleeve longitudinally of the said axle.

1,429,541. WATER STILL. LOUIS J. B. SCHNUG, San Diego, Calif. Filed Apr. 30, 1920. Serial No. 377,803. 2 Claims. (Cl. 203—5.)
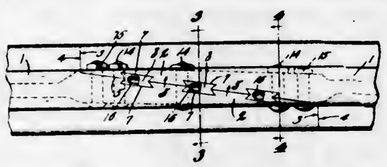


2. A water still, including a conventional tea kettle, a conical-shaped casing, a flange member secured to the outer edge of said casing and extending upwardly and inwardly forming an annular trough inside of said casing and provided with a downwardly extending tapering flange portion fitting snugly the filling opening of said tea kettle, means communicating with said trough portion for conducting liquid therefrom and another larger conical-shaped casing secured to the outer lower side of said conical-shaped casing forming a cold water receptacle with the outer surface of said conical-shaped casing and provided with an inlet opening in the apex of said larger conical-shaped casing.

1,429,542. PROCESS OF DRYING JAPANESE LACQUER. YUJI SHIBATA, Tokyo Fu, and YUSHICHI NISHIZAWA, Tokyo, Japan. Filed Mar. 29, 1920. Serial No. 369,792. 3 Claims. (Cl. 134—26.)

3. An article of manufacture, comprising a Japanese lacquer preparation having therein a complex salt of metals and ammonium in the proportion of five to thirty per cent.

1,429,543. RAIL JOINT. DAN SMITH, Esto, La. Filed Nov. 21, 1921. Serial No. 516,749. 2 Claims. (Cl. 238—237.)

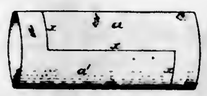


1. In a device of the class described, a pair of rails having reduced overlapped ends provided in their inner surfaces with cooperating vertical undercut grooves disposed opposite to each other and extended upwardly through the upper surface of the overlapped ends of the rails; a retainer shaped to fit in the grooves and received therein, the retainer being engaged directly with the overlapped ends of the rails to hold them against lateral separation; and a securing device connecting the ends of the rails and engaging the retainer to hold the same against vertical movement.

1,429,544. DIFFERENTIAL FLOTATION PROCESS. BLAMEY STEVENS, Triunfo, Baja California, Mexico. Filed Mar. 8, 1920. Serial No. 364,033. 5 Claims. (Cl. 83—85.)

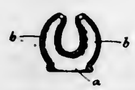
1. In a flotation process, preparing a flotation pulp, adding to that pulp a selective re-agent which is a solvent for flotatable metals in the ore being treated and which is saturated with one of such metals, then floating that metal of saturation.

1,429,545. METHOD OF PRODUCING SUSPENSORY BANDAGES. ALFRED PARKER STOKES, St. Heliers, Jersey, Channel Islands. Filed July 14, 1920. Serial No. 396,255. 3 Claims. (Cl. 128—160.)



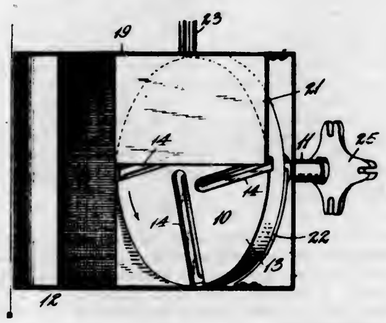
1. The method of producing suspensory bandages, which consists in dividing a knitted tubular body into two like parts consisting each of a relatively longer flat body portion and a relatively shorter tubular portion at each end, then severing the tubular portions substantially symmetrically relatively to the body portion to form strips projecting laterally thereof and then stretching the strips.

1,429,546. INHALING DEVICE FOR USE IN THE TREATMENT OF ASTHMATIC, CATARRHAL, AND OTHER AFFECTIONS. ALFRED PARKER STOKES, St. Heliers, Jersey, Channel Islands, assignor to Richard Palmer, New York, N. Y. Filed Aug. 10, 1921. Serial No. 491,280½. 2 Claims. (Cl. 128—206.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



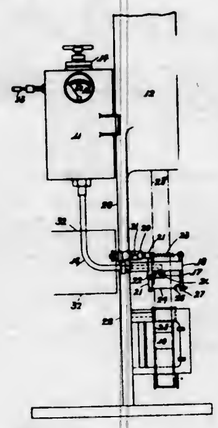
1. An inhaling device comprising a yieldable body portion of substantially ring like structure, said body portion being hollow and interrupted at one side to provide a pair of horns closely spaced apart at their outer ends to yieldably receive the nasal membrane therebetween for supporting the device in the nose, said ring like structure being open at its outer side remote from said interruption to receive a medicament carrying vehicle and admit the distribution of the vehicle toward and into the opposite horns and permit the passage of air independently through the horns.

1,429,547. FEEDING, SORTING, AND COLLECTING MECHANISM. ALEXANDER F. SWEEDEN, Long Island City, N. Y. Filed Apr. 26, 1921. Serial No. 464,756. 14 Claims. (Cl. 83—92.)



1. A hopper, an inclined disk, co-acting with said hopper and provided with means for effecting a collection of articles from the hopper, and a peripheral discharge of the collected articles from the disk and means for revolving said disk.

1,429,548. FIRE-EXTINGUISHING APPARATUS FOR CINEMATOGRAPHS. WILLIE TAYLOR, Farsley, near Leeds, England. Filed Sept. 28, 1920. Serial No. 413,394. 4 Claims. (Cl. 169—2.)



1. In fire-extinguishing apparatus for cinematographs, the combination of a reservoir for fire-extinguishing fluid, a fluid outlet pipe connected thereto, said outlet pipe having an orifice, a valve normally closing said orifice, means for supporting said valve, a spring tending to move said valve clear of said orifice, and an inflammable connection for retaining said valve closed over said orifice against the action of said spring, said orifice and inflammable connection being disposed immediately above the film gate of the cinematograph.

1,429,549. SAW. ERICK TJENALL, Omaha, Nebr. Filed May 21, 1920. Serial No. 383,165. 1 Claim. (Cl. 145—113.)

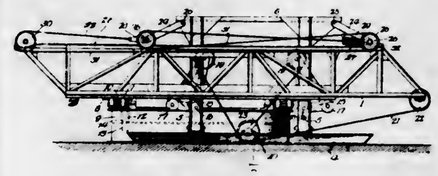


The combination with the rear end of a saw blade disposed within a kerf of a handle, of a reinforcing plate for said blade and handle, said plate comprising a member bent to form parallel portions rigidly secured to the opposite sides of the sawblade and having a transverse portion engaging the rear edge of the blade, said parallel portions merging into outwardly and rearwardly extending members engaging the forward edges of the saw handle to each side of the kerf and means for securely holding the reinforcing plate in the kerf of the handle.

1,429,550. PROCESS OF ORE CONCENTRATION. LOUIS FENN VOGT, Washington, Pa., assignor to Standard Chemical Company, Pittsburgh, Pa. Filed Jan. 15, 1920. Serial No. 351,632. 8 Claims. (Cl. 83—84.)

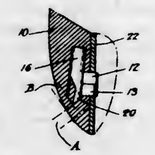
1. The process of concentrating ore of the carnotite type containing radium, uranium and vanadium, consisting in destroying the cementing function of the mineral of the ore, crumbling the ore and classifying the resultant product to recover the value-bearing constituents separated from the gangue.

1,429,551. WALKING-MOTION PROPELLING APPARATUS. VINCENT G. ANDERSON, Kenosha, Wis., assignor to Frederick C. Austin, Chicago, Ill. Filed Apr. 22, 1918. Serial No. 229,946. 16 Claims. (Cl. 180—8.)



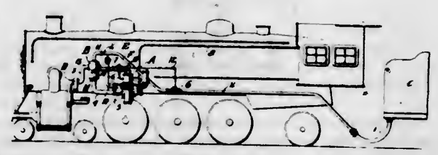
1. A walking motion propelling apparatus comprising a main frame, an auxiliary frame, means to lift the main frame and shift it forward on the auxiliary frame, and instrumentalities separate and distinct from said means and operating between the top of the main frame and the top of the auxiliary frame to lift the auxiliary frame and shift it forward.

1,429,552. ARTIFICIAL-TOOTH ANCHORAGE. JESSE ARKIN, New York, N. Y. Filed Oct. 29, 1921. Serial No. 511,293. 8 Claims. (Cl. 32—9.)



1. In an artificial tooth, the combination with a flat backed ceramic tooth facing, of a coupling member embedded therein, said coupling member being initially a thin ductile high fusing metal plate, rectangular in shape and having offset wings projecting at a lateral angle from opposite sides of said rectangle, and a third side having a pair of projections forming spaced angular elements, said metal plate being later formed into a hollow cylindrical shank having a V-shaped lower end and a pair of wings projecting outwardly one above the other in vertical alinement with said shank.

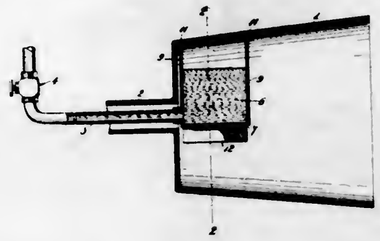
1,429,553. LOCOMOTIVE FEED-WATER-HEATER SYSTEM. EARL A. AVERILL, Mount Vernon, N. Y., assignor to Locomotive Feed Water Heater Company, a Corporation of Delaware. Filed Nov. 17, 1919. Serial No. 338,636. 5 Claims. (Cl. 103—79.)



1. A locomotive feed water heating system comprising in combination a supply receptacle, a feed water heater, located at a point above the average low level of the water in the supply receptacle, steam actuated means for elevating the water from the supply receptacle to the heater, a boiler feed pump for pumping the water from

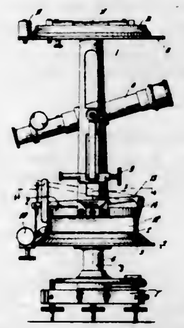
the heater into the boiler, and means under the influence of the water in the heater for controlling the supply of steam to the water elevating means.

1,429,554. ROTARY OIL BURNER. ARTHUR H. BALLARD, San Francisco, Calif., assignor to Ballard Oil Burning Equipment Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 26, 1918. Serial No. 268,375. 6 Claims. (Cl. 158—77.)



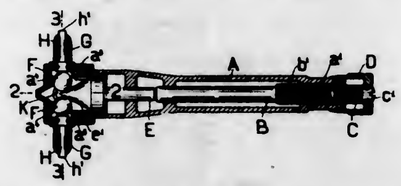
1. In a burner of the type specified, the combination with a rotary atomizing cup, of a stationary delivery pipe through which oil is introduced into the cup, a cut-off in said pipe, a stationary upturned receptacle within the cup with which the delivery pipe connects and into which the oil is initially fed, said receptacle being arranged whereby it will maintain a head of oil within it when the cut-off is closed and the delivery pipe beyond said cut-off is in a position where oil therein will gravitate therefrom, said receptacle presenting also an edge over which the oil will pass into the cup from the head of oil maintained within the receptacle during the feeding of the oil and rotation of the cup.

1,429,555. THEODOLITE AND SIMILAR ANGLE-MEASURING INSTRUMENT. IGNACIO VIRIATO BAPTISTA, Rio de Janeiro, Brazil. Filed Feb. 4, 1922. Serial No. 534,076. 2 Claims. (Cl. 33—46.)



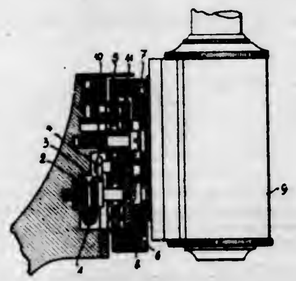
1. A theodolite or similar instrument, comprising means for supporting on and removably securing to that part of the instrument, which is kept stationary when angular measurements are being made, a cardboard disk having its center coinciding with the axis of the instrument; and recording means, manually operated, mounted on that part of the instrument which revolves on the stationary part, embodying a member adapted to print on the cardboard disk a straight line following a diameter lying in the vertical plane containing the optical axis of the instrument.

1,429,556. INSIDE GAUGE. MAX BARTHOLDY, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 29, 1921. Serial No. 525,678. 4 Claims. (Cl. 33—178.)



1. A gauge of the class described comprising a body, a pair of measuring pins supported by said body, a pair of relatively shorter supporting pins carried by said body and means adapted to displace said pins simultaneously during the measuring operation.

1,429,557. MICROSCOPE. AUGUST BAUER, Wetzlar, Germany. Filed July 24, 1922. Serial No. 577,104. 5 Claims. (Cl. 88—39.)



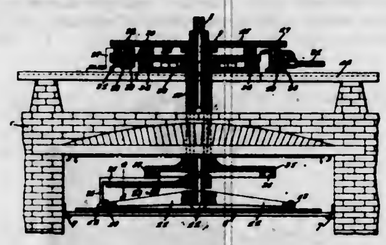
1. A microscope comprising a support having a guide member carried thereby, a microscopic tube adjustable with respect to said support and having a sliding member cooperating with said guide, freely movable rolling members disposed between the guide and the sliding member and a retaining member also disposed between the guide and the sliding member for retaining the rolling members in spaced relation.

1,429,558. FLOATING DECOY. FRED BAUER, Red Wing, Minn. Filed Sept. 30, 1921. Serial No. 504,441. 3 Claims. (Cl. 43—3.)



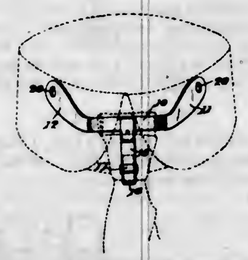
3. A device of the character specified comprising a float representing a duck, a spring roller mounted in the body portion of said float, an anchor cord winding upon said roller, an anchor in the form of a loop adapted to fit over a portion of the float when not in use attached to the free end of said cord and a wire catch fastened to the float body to retain the anchor cord at the proper length against the tension of the spring roller.

1,429,559. OVEN-LOADING DEVICE. ADEN BECKETT, Long Island City, N. Y. Filed Apr. 25, 1921. Serial No. 464,131. 2 Claims. (Cl. 198—20.)



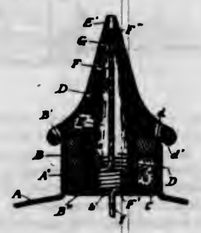
1. In an oven, a loading device including a rotatable shelf disposed within the oven, an arm rotatable above the shelf, said arm having a groove, a bar positioned in the groove, an eccentric disposed above the bar and having connection therewith, means for rotating the arm to cause the bar to move within the groove and force material from the shelf, and means for operating the arm and shelf in opposite directions.

1,429,560. TIE HOLDER. ISAAC BERNSTEIN, San Francisco, Calif. Filed Nov. 28, 1921. Serial No. 518,237. 2 Claims. (Cl. 24—57.)



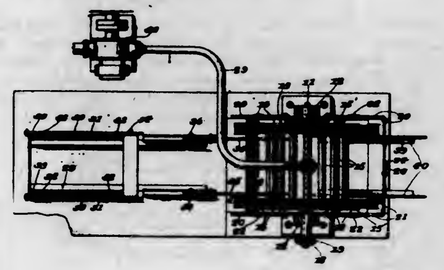
1. A tie form and support comprising a back plate having oppositely extending wings to be disposed between the front and rear folds of a turnover collar, a downwardly extending prong secured centrally of said plate and around which the knot of a tie may be disposed, a yieldable member secured to the end of said prong and fitted with a ring to be disposed over a collar button, and means for adjusting the length of said yieldable member.

1,429,561. DISPENSING DEVICE FOR CONTAINERS. EDGAR H. BERRY, New York, N. Y. Filed May 29, 1917. Serial No. 171,699. 14 Claims. (Cl. 221—22.)



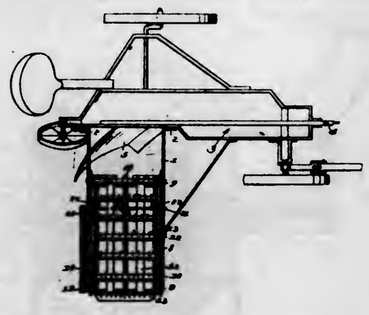
1. A dispensing device for containers, comprising a nozzle, a flanged nozzle supporting cup adapted to engage the container structure, a projecting lip on the nozzle, closed inward into rotatable engagement with the cup flange, elastic packing means, interposed between the nozzle and the cup, intercommunicating passages through the bottom of the cup and through the nozzle, and means for plugging the discharge passage, substantially as, and for the purpose set forth.

1,429,562. CORE FOR CASTING IRON PIPES AND MEANS FOR PRODUCING THE SAME. GRANT G. BEARY, Bessemer, Ala. Filed Apr. 13, 1921. Serial No. 461,077. 14 Claims. (Cl. 22—12.)



1. A machine for producing cores for use in casting pipes, having a rotary core barrel carrying member and a spraying member for applying fluid scale forming material to the core barrels, said carrying member being continuously movable to progressively and uniformly apply the material to the exterior surfaces of the core barrels.

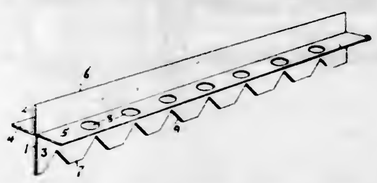
1,429,563. QUACK-GRASS DESTROYER. HENRY BRUNING, Freeport, Minn. Filed Aug. 21, 1920. Serial No. 405,159. 2 Claims. (Cl. 55—51.)



1. A grass destroying machine, comprising the combination with a wheeled plow, having a plow share and a supporting frame therefor, of a horizontally disposed main frame having one end thereof connected to the frame of the wheeled plow and arranged at substantially right angles to one side thereof, said main frame consisting of a pair of parallel bars, a cross bar arranged between the opposite sides of the outer portions of said parallel bars, a drive wheel supported within said main frame and rotatably supported by said cross bar, an inclined frame supported between the sides of said main frame and extending upwardly therefrom, the outer end of said inclined frame being arranged at a point beyond the adjacent end of the main frame, an endless conveying means carried by said inclined frame, the lower end of the conveying means being arranged in proximity to the earth-turning side of the plow share whereby to

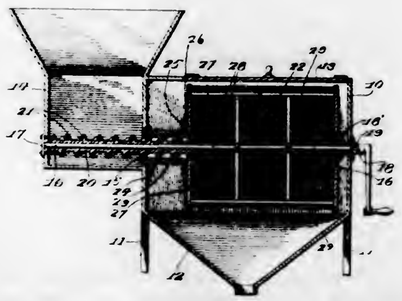
receive the earth turned thereby in said lower end, said conveying means comprising a plurality of belts, a plurality of teeth carrying slats connected to and arranged transversely of said belts, pulleys arranged in said inclined frame over which said belts pass, means for operatively connecting one of said pulleys with said drive wheel whereby upon the travel of said drive wheel over the ground said endless conveying means will be set in operation, a jigging mean arranged in said inclined frame, said jigging means consisting of a crank shaft adapted to engage the belts of said endless conveying means and means for operatively connecting said crank shaft to said drive wheel, substantially as and for the purpose specified.

1,429,564. JOINT STRIP FOR CONCRETE FLOORS. FRANK J. BORKENSTEIN, Fort Wayne, Ind., assignor to Art Mosaic and Tile Company, Toledo, Ohio, a Copartnership composed of Michael C. Fioritto, Richard E. Wright, and Frank J. Borkenstein. Filed June 25, 1921. Serial No. 480,346. 2 Claims. (Cl. 94—18.)



1. A joint strip for concrete floors formed with a central plane, there being along one edge thereof a contiguous L-shaped extension and at the opposite edge thereof a similar contiguous L-shaped extension, said extensions having corresponding wings that project outwardly from the central plane, there being a series of apertures in each wing and in the lower edge of the strip.

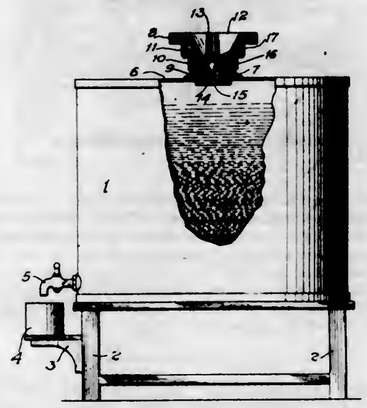
1,429,565. FLOUR SIFTER. JOHNSON BREWER, Rice, Tex. Filed Jan. 24, 1922. Serial No. 531,470. 3 Claims. (Cl. 83—39.)



1. A flour sifter including a box, a hopper on one end of the box and having communication within the box, a stationary shaft extending longitudinally through the box, drum and hopper, a means for rotating the drum, and a feeding means mounted on the shaft and connected with drum for feeding material from the hopper to the drum, as the drum is rotated.

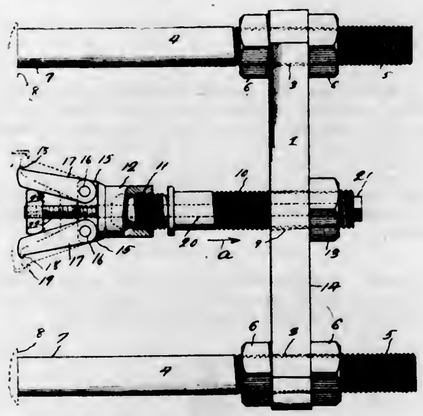
1,429,566. VALVE OR PLUG FOR OIL CONTAINERS. BENNER H. CARLILE, Independence, Kans. Filed May 18, 1921. Serial No. 470,708. 1 Claim. (Cl. 220—44.)

A plug or valve for oil containers, comprising a structure provided with a plurality of different diameters radially arranged above each other adapted to be fitted to openings of varying diameters formed in the top of the container, said structure having a seat formed at its inner lower end portion with an opening therethrough, a spring resting on the upper surface of said seat, an inner



vertical wall formed within said structure screw-threaded at its upper end, a tube fixedly secured to said inner wall provided with screw-threads at each end thereof, and a ball valve resting in contact with said spring and adapted to be seated in contact with the lower end of said tube.

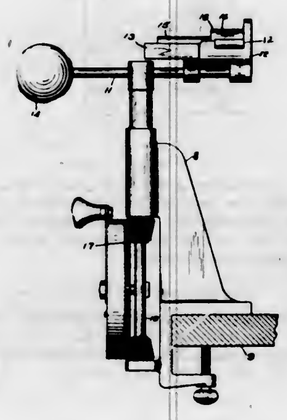
1,429,567. BEARING-CUP PULLER. FRED CARLISLE, Tulsa, Okla. Filed Mar. 22, 1921. Serial No. 454,385. 1 Claim. (Cl. 29—84.)



A bearing puller comprising a bar, adjustable supporting shafts carried by said bar adjacent its ends, a threaded shaft extending through the bar substantially centrally thereof and provided with a nut engaging the outer face of the bar, an adjustable head carried by the inner end of the threaded shaft, a plurality of dogs pivoted to adjustable head and extending outwardly and adapted to be forced into engagement with a bearing, a bolt extending through the threaded shaft and having its inner end disposed between the plurality of pivoted dogs, an engaging

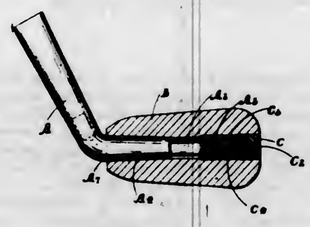
block disposed on the threaded end of the bolt and engaging said dogs, the head of the threaded bolt engaging the outer end of the threaded shaft and forming means whereby the threaded bolt may be rotated for moving the dog engaging block in the direction of the threaded shaft for forcing the free ends of the dogs outwardly.

1,429,568. METHOD OF AND APPARATUS FOR METAL CASTING. ROLLAND T. CASE, La Crosse, Wis. Filed Mar. 3, 1921. Serial No. 449,311. 2 Claims. (Cl. 22—97.)



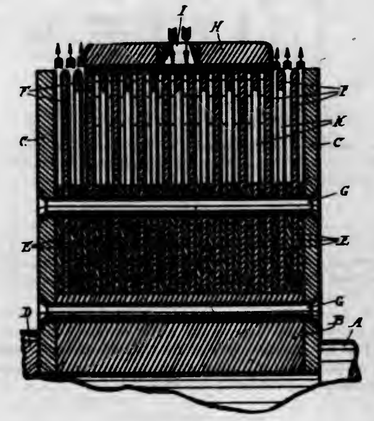
1. In combination with a crucible having a conical discharge spout, of a mold therefor, consisting of a mold member having a molding recess and a conical end recess leading thereto, the portion of the mold forming the conical recess being of a shape to closely fit over the conical end portion of the crucible to receive molten metal therefrom directly into the mold recess.

1,429,569. GOLF CLUB. ALEXANDER CRAIG, Coventry, England. Filed Apr. 1, 1922. Serial No. 548,822. 4 Claims. (Cl. 46—4.)



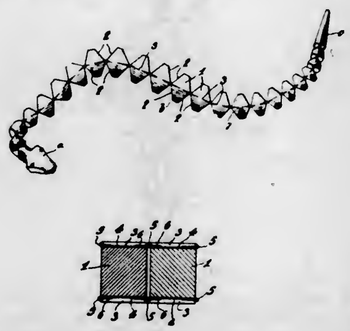
1. In a golf club, the combination of a shank, a socket integral therewith for receiving the shaft, a plain taper on said shank, a readily removable head, a plain taper bore to said head engaging said taper on said shank, a locking device carried by the outer end of said shank and adapted to act upon said head and hold said tapers in engagement at any angle, substantially as set forth.

1,429,570. TURBINE. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle National Company, Chicago, Ill., a Corporation of New Jersey. Filed Mar. 30, 1921. Serial No. 456,912. 11 Claims. (Cl. 253—50.)



1. In a turbine, a plurality of parallel annular motive fluid chambers, connections between them, and means for conducting motive fluid through said chambers successively, there being a plurality of connections between adjacent chambers.

1,429,571. TOY. WILLIAM THEODORE DAVIS, Mineral Wells, Tex. Filed Nov. 3, 1921. Serial No. 512,613. 3 Claims. (Cl. 46—40.)

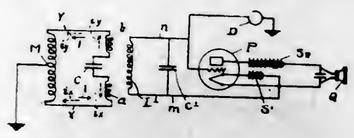


1. A toy comprising a plurality of sections adapted to be hingedly connected together, each section having oppositely disposed parallel slots and hinge members adapted to lie in said slots, the hinge members of one section being pivotally secured to those of the next adjacent, intermediate said sections.

1,429,572. CIRCUIT RECEIVER. HENRI JEAN JOSEPH MARIE DE REGNAULD DE BELLESCIZE, Toulon, France. Filed Aug. 14, 1918. Serial No. 249,910. 7 Claims. (Cl. 250—20.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In the construction of radiotelegraphic receivers comprising a self inductor and a capacity forming an oscillat-

ing circuit in connection with an indicator circuit, a method consisting of balancing the external electrostatic

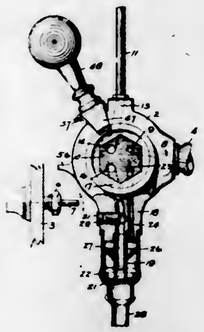


actions on all of the elements of the receiving apparatus, so that these actions may be distributed symmetrically with respect to said capacity.

1,429,573. SHORTENING AGENT. CARLETON ELLIS, Montclair, N. J. Filed Jan. 23, 1919, Serial No. 272,629. Renewed Feb. 15, 1922. Serial No. 536,819. 3 Claims. (Cl. 99—10.)

1. A shortening agent containing hard hydrogenated oil and a pulverulent to granular water-soluble substance employed in the manufacture of food products, such hard oil being in the form of a shell upon the surface of the particles of such water-soluble substance.

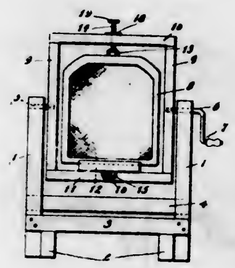
1,429,574. MIXING FAUCET. WILLIAM A. ENGLAND, San Francisco, and JOSEPH L. MATTINGLY, Berkeley, Calif., assignors to Eng-Skell Company, Inc., San Francisco, Calif., a Corporation of California. Filed Feb. 15, 1921. Serial No. 445,061. 9 Claims. (Cl. 225—26.)



1. A mixing faucet comprising a head formed with groups of related but unconnected passages, unitary means for connecting the related passages in each group, means for supplying one of the fluids to be mixed to one end of each group of passages, and means at the other ends of said passages for mixing said fluids and discharging the mixture.

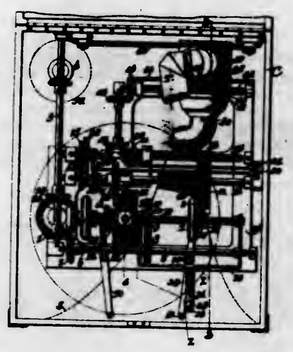
1,429,575. RADIATOR HOLDER. JESSE L. FISCUS, Audubon, Iowa, assignor of one-half to Albert Idso, Audubon, Iowa. Filed June 17, 1920. Serial No. 389,698. 1 Claim. (Cl. 29—89.)

A radiator holder comprising a base including vertical arms, a frame having side bars and upper and lower bars, horizontal pivot shafts extending from the side bars of said frame and journaled in the arms of said base, a bracket positioned in the lower portion of the frame for engaging the lower end of a radiator set vertically in the frame, the bracket being elongated and having side flanges for engaging the forward and rear faces of a radiator, a pin extending from the bottom of the bracket and fitting into a socket formed in the lower bar of the frame to rotatably mount the bracket for turning movement at right



angles to the movement of the frame, and a clamp including a threaded stem passing through the upper bar of the frame and a rotatable head swiveled upon the lower end of the stem for engaging the upper end of the radiator about the filling neck thereof.

1,429,576. SPEED-REGULATING MEANS. THEODORE FLETCHER, San Antonio, Tex., assignor of one-half to J. M. Nix, Bexar County, Tex. Filed June 20, 1918. Serial No. 240,995. 15 Claims. (Cl. 74—26.)

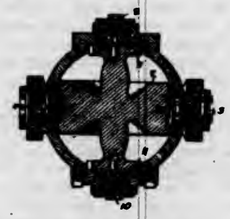


1. In a phonograph, a turn table, a friction wheel in driving contact with the turn table, a friction wheel shaft, a shaft supporting yoke, a driven shaft providing a pivotal mounting for the yoke, driving means between said shaft and the friction wheel shaft, a resilient member carried by the yoke, a notched handle on said resilient member adapted to enable the rocking of the yoke on its pivotal mounting to secure the engagement or disengagement of the friction wheel with the turn table, and fixed engaging means cooperating with the notches of said handle.

1,429,577. GYROSCOPE. JAMES A. FLINT, Denver, Colo., assignor to the Government of the United States. Filed May 10, 1919. Serial No. 296,124. 3 Claims. (Cl. 74—78.)

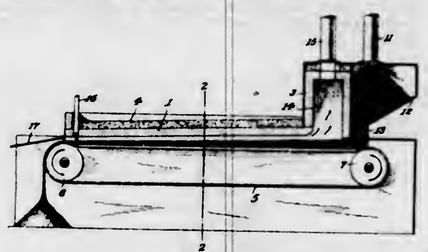
1. A bearing for fluid sustained gyroscopes comprising in combination, a threaded bushing provided with a port,

a bearing cup threaded within said bushing and provided with an annular recess communicating with said port, said



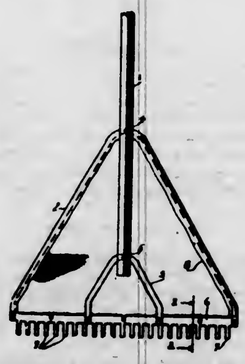
bearing cup also being provided with a bearing seat and with fluid conducting means connecting said annular recess and said seat.

1,429,578. GAS PRODUCER. ALBERT L. GALUSHA, Sharon, Mass. Filed May 28, 1920. Serial No. 384,860. 7 Claims. (Cl. 48—76.)



1. In a gas producer, the combination with an elongated combustion chamber of limited sectional capacity, of an imperforate traveling fuel support traversing the same from end to end, means for depositing fuel thereon at the rear end in regulable amount, and means for conveying off the gases which are driven off from the fuel bed by the heat developed by the combustion of a portion of the fuel at the forward or delivery end.

1,429,579. LAWN BROOM. WILLIAM P. GAUGHAN, Stockton, Calif. Filed Dec. 29, 1921. Serial No. 525,652. 1 Claim. (Cl. 55—10.)



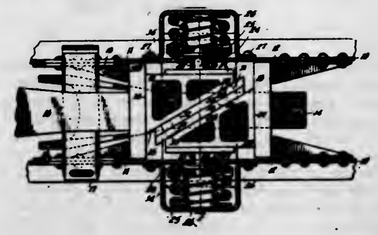
A lawn broom comprising a handle, supports mounted thereon and extending both sides thereof, a bar connecting said supports and sheet material mounted on said supports and bar in parallel relation to said handle and substantially filling the spaces between said supports and bar and teeth extending from said bar in substantially the same plane as said sheet material.

1,429,580. SHAFT COUPLING. PAUL NEAL GEIGER, Massillon, Ohio. Filed Oct. 25, 1918. Serial No. 259,705. 15 Claims. (Cl. 64—96.)



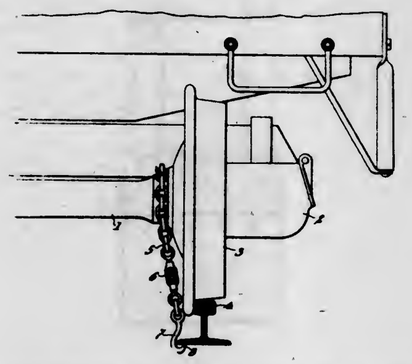
1. A rotatable shaft coupling comprising a helical body and integral axial ends having a cross section like the shaft, the helical body tapering from a substantially square section at each end to an increased radial width and a decreased thickness intermediate the ends.

1,429,581. FRICTION SHOCK-ABSORBING MECHANISM. WILLIAM A. GEIGER, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Sept. 8, 1921. Serial No. 499,142. 8 Claims. (Cl. 213—64.)



1. In a friction shock absorbing mechanism, the combination with oppositely parallel moving friction members, of supplemental friction plates interposed between said members, the plate adjacent one member being actuated by the other member.

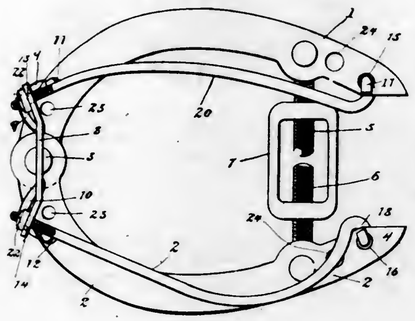
1,429,582. CAR-AXLE ANCHOR. JESSE T. GENTRY, Lebanon Junction, Ky. Filed June 22, 1921. Serial No. 479,601. 3 Claims. (Cl. 188—45.)



1. An anchoring device for use with a car axle comprising a flexible member, means for adjusting the length

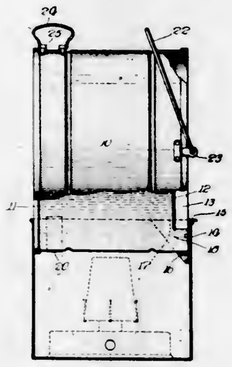
of the member and means for connecting the flexible member to a rail flange at the inner side thereof so that the flexible member extends in straight lines from the car axle to the points where attached to the rail.

1,429,583. HORSESHOE. JOHN BUCHANAN GILLIES, Thornhill, Ontario, Canada. Filed Oct. 3, 1921. Serial No. 505,017. 1 Claim. (Cl. 168—22.)



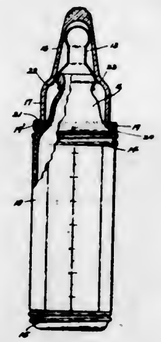
A horseshoe comprising two segmental plates pivotally connected together at the toe for their contraction and expansion, adjusting means for the accurate spacing of the sole plates consisting of a turnbuckle and bolts connected with the sole plates, and means for clamping the shoe to the hoof consisting of a toe-band shaped to engage the toe of the hoof, links pivotally connecting said band with the sole plates, and hoof straps pivotally connected at one end with the sole plates near the heel of the shoe and adjustably connected at the other end with the toe band.

1,429,584. WATERING APPLIANCE. RAYMOND B. GLIDDEN, Kewanee, Ill., assignor to Kewanee Implement Company, Kewanee, Ill., a Corporation of Illinois. Filed Apr. 19, 1919. Serial No. 291,303. 3 Claims. (Cl. 119—73.)



1. In a watering-appliance of the character described, the combination of a cylindrical water-supply tank having an apertured head disposed inwardly away from the corresponding circular edge of the tank, a wall across said edge in register with the aperture of the head forming a trough with said head and that portion of the tank sidewall between them, said trough wall extending beyond said tank edge and constituting a supporting foot for the tank, brace ends of said wall being bent lengthwise the tank and secured to its outer face, the top edge of said wall having an outstanding flange or lip, a bail handle hinged to the trough end of the tank in parallel relation to the trough, a second handle secured to the other end of the tank disposed at right angles to the trough, a plurality of supporting legs at the end of the tank opposite the trough, and a housing adapted to contain a heating appliance and having a rectangular top opening, said tank being adapted to rest on said supporting foot and legs or be mounted on said housing with said trough wall and its brace ends accommodated in said housing, the flange of the wall overlying the corresponding edge of the housing, substantially as described.

1,429,585. NURSING BOTTLE. ROBERT J. HAGERTY, Philadelphia, Pa., assignor of one-half to Frank H. Hebron and one-half to Thomas C. Kelly, both of Philadelphia, Pa. Filed Dec. 23, 1921. Serial No. 524,352. 5 Claims. (Cl. 215—11.)

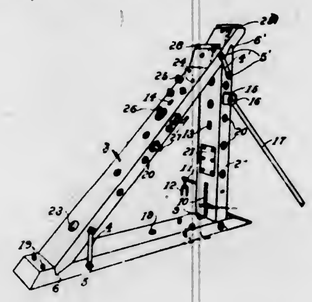


1. In an article of the character stated a bottle provided with an external screw-threaded portion that portion of the bottle above said screw-threaded portion being of smaller diameter and provided with a bead, a nipple engaged over said bead, a nipple closure having an imperforate dome fitted over said nipple in impinging relation with that part of the nipple engaging over said bead and a lock-ring engaging the screw-threaded portion of said bottle for clamping said nipple closure upon said bottle.

1,429,586. MOLDING MIXTURE. THOMAS HANNA, deceased, late of Columbus, Ohio, by John W. Bricker, administrator, Columbus, Ohio, and ABE M. HANNA, deceased, late of Columbus, Ohio, by Luella H. Hanna, executrix, Columbus, Ohio. Filed Oct. 2, 1920. Serial No. 414,348. 2 Claims. (Cl. 106—39.)

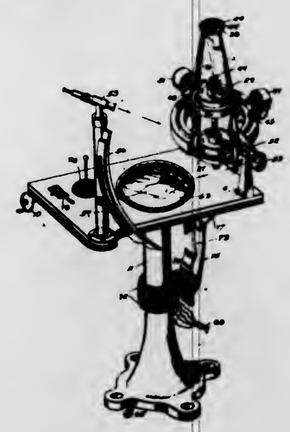
1. A process of making a molding mixture which consists in mixing a solution of animal glue with formaldehyde, and then mixing a filler into the first-mentioned mixture.

1,429,587. COLLAPSIBLE MECHANIC BENCH. HUGH H. HARRIS, Alexandria, Va. Filed Dec. 27, 1920. Serial No. 433,247. 12 Claims. (Cl. 81—41.)



1. A collapsible work bench comprising a frame composed of pivotally connected members, which defines a right triangle when in the operative position, one side of said triangle being the base member of the bench.

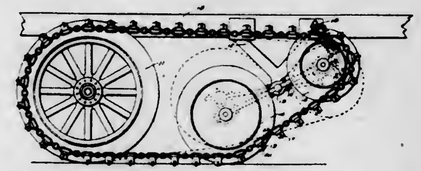
1,429,588. GYROSCOPIC APPARATUS. JOHN FILLMORE HAYFORD, Evanston, Ill., and LYMAN JAMES BRIGGS, Battle Creek, Mich., assignors to the Government of the United States. Filed Apr. 17, 1919. Serial No. 290,895. 16 Claims. (Cl. 33—73.)



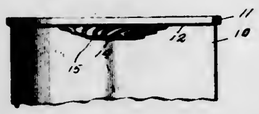
1. Gyroscopic apparatus comprising, in combination, a support subjected to disturbing movements and forces, a gyroscopic system supported by said support and maintaining a constant horizontal reference line despite said movements and forces, and means for indicating the relative positions of said support and said line.

1,429,589. TRACTION DEVICE FOR VEHICLES. EMIL HELM, Kitchener, Ontario, Canada. Filed Apr. 23, 1920. Serial No. 376,107. 3 Claims. (Cl. 305—8.)

1. The combination with a motor vehicle embodying the usual body frame, and driving wheels carried by the frame, of a substantially straight supporting arm mounted on each side of said frame and pivoted forwardly of the axle of the drive wheels, idler wheels mounted on opposite ends of said arms, an endless flexible traction element passing about each pair of said idler wheels and the corresponding drive wheel, said arms being normally angularly arranged whereby one idler wheel of each pair normally contacts the ground, and resilient means for maintaining said arms in normal position.

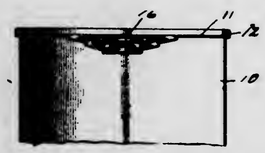


1,429,590. SIFTER TOP. HARRY W. JONES, New York, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed June 12, 1920. Serial No. 388,536. 6 Claims. (Cl. 221—61.)



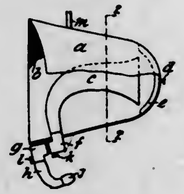
1. A can wall having severed lines curving outwardly from about a predetermined portion of said wall said portion being capable of being pressed inwardly of the can to provide openings along said lines of severance.

1,429,591. DISINTEGRATOR SIFTER TOP. HARRY W. JONES, New York, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed June 12, 1920. Serial No. 388,537. 4 Claims. (Cl. 221—61.)



1. A can wall having a part of expanded metal formation providing sifter openings.

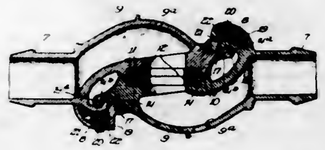
1,429,592. ACOUSTIC INSTRUMENT. CHARLES KAHN, London, England. Filed July 15, 1921. Serial No. 484,865. 2 Claims. (Cl. 181—25.)



1. An acoustic instrument consisting of a resonator casing, a tapering tube in the casing, an angle piece at

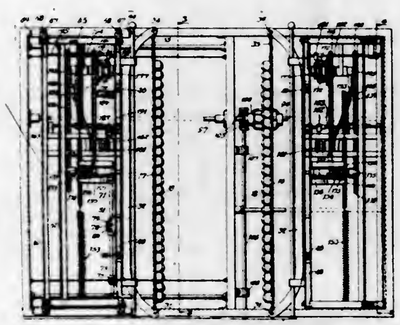
the end of the tapering tube, a second angle piece rotatably connected to the first and an ear tube rotatably connected to the second angle piece.

1,429,593. COUPLING FOR TRAIN-PIPE-CONNECTION HOSE. MICHAEL E. KEEHAN and JOSEPH J. GLASS, Chicago, Ill. Filed Jan. 14, 1921. Serial No. 437,212. 10 Claims. (Cl. 285—62.)



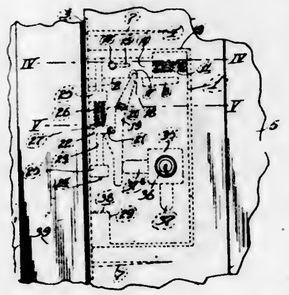
3. A train pipe coupling member formed with a lubricant chamber within the body portion thereof.

1,429,594. MASSAGE DEVICE. JOHN KERCHER, Chicago, Ill. Filed Aug. 21, 1916, Serial No. 116,026. Renewed Feb. 9, 1922. Serial No. 535,396. 22 Claims. (Cl. 128—58.)



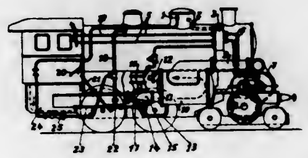
1. In a device of the class described, a flexible apron, means at its ends for holding said apron under tension and giving it a horizontal movement substantially in the plane thereof, and a series of projections thereon adapted to be brought into contact with the body to be massaged.

1,429,595. BURGLAR ALARM. RUDOLPH KOEHLER, St. Louis, Mo. Filed Feb. 17, 1919. Serial No. 277,452. 2 Claims. (Cl. 116—15.)



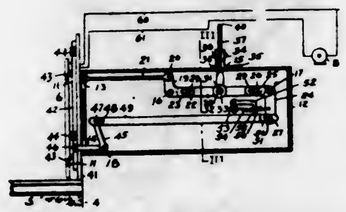
1. The combination of a door, a frame therefor and a burglar alarm embedded in said door, said alarm comprising a reciprocally mounted firing pin, a cartridge chamber in alinement with said pin, a trigger for releasing said pin, a releasing member operable with said trigger adapted to bear against said frame, thereby preventing said pin from movement, and means operable with said trigger for preventing said releasing member from actuating said trigger.

1,429,596. STEAM-DRIVEN LOCOMOTIVE. CONRAD KOHLER, Zurich, Switzerland. Filed July 14, 1921. Serial No. 484,650. 2 Claims. (Cl. 105—38.)



1. An arrangement for controlling the flow of the water of condensation of steam driven locomotives provided with a surface condensing plant, comprising a pump for water of condensation operatively connected to the surface condenser and to the steam boiler and adapted to deliver under normal working conditions the total quantity of the water of condensation from the surface condenser to the boiler, a changing over device interposed in the connection from said pump to the boiler, a water storage tank, an operative connection between said device and said tank, and means to operate said device so that said pump delivers the water of condensation at will either into the boiler or into said storage tank whereby an excessive accumulation of the water of condensation inside the condenser is avoided under all circumstances.

1,429,597. GATE-RELEASING DEVICE. JULIUS LESJAK, Sygan, Pa. Filed Sept. 18, 1920. Serial No. 411,198. 2 Claims. (Cl. 187—61.)

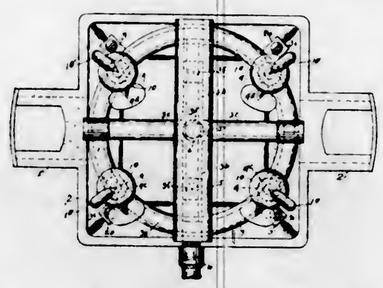


1. A device for the purpose set forth comprising the combination with a normally locked gate having a plurality of latches, of a vertically movable locking bar provided with keeper members associated with the latches to maintain the gate closed, a bell crank lever connected to said bar, an actuating arm having one end attached to said lever, and a toggle lever mechanism connected with said arm and adapted to actuate said arm and to have the movement of certain of its elements arrested to cause the operation of the other of its elements and said bar and bell crank whereby said bar is shifted upwardly to open the latches.

1,429,598. OIL BURNER. CHARLES H. LEWIS, Syracuse, N. Y. Filed Oct. 27, 1921. Serial No. 510,858. 5 Claims. (Cl. 158—63.)

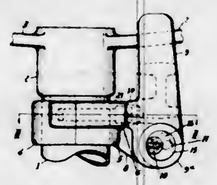
1. A kerosene burner, including a hopper-like base, an annular reservoir mounted on said base, hollow radial arms bridging the central opening in the reservoir and

communicating therewith, a hollow vaporizing member disposed above and parallel to the reservoir and registering with one of said radial arms, a vertical conduit connecting said member with all of said radial arms, the said radial



arms having jets adapted to heat said member for vaporizing liquid fuel, jet-burners mounted on said reservoir and partially encircling said member, and cocks for controlling said jet burners.

1,429,599. AUTOMOBILE LOCK. BENJAMIN LIEBOWITZ, New Rochelle, and JAMES BALSAM, New York, N. Y.; said Liebowitz assignor to said Balsam. Filed Nov. 12, 1921. Serial No. 514,527. 5 Claims. (Cl. 70—129.)



5. In a locking device for an automobile steering wheel, a split collar clamped to the steering column, a forked member pivotally jointed to the collar and adapted when swung into upright position to engage a spoke of the steering wheel, a spring pressed split bolt extending longitudinally of the joint between the collar and the forked member and automatically operative to lock the latter in upright position, and key-controlled means for unlocking the same.

1,429,600. BEAM STRUCTURE. ANDREAS P. LUNDIN, Flushing, N. Y., assignor to American Balsa Company, Inc., a Corporation of New York. Original application filed Nov. 21, 1918, Serial No. 263,464. Divided and this application filed Dec. 7, 1920. Serial No. 429,043. 8 Claims. (Cl. 244—31.)



1. An airplane frame, the structure of which consists in part of balsa wood, suitably treated with paraffin to preserve it and make it waterproof and flanked by plates of relatively tough material.

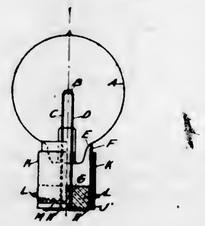
1,429,601. ELECTRIC POCKET LAMP WITH MECHANICAL ELECTRIC GENERATOR. ANTOINE LUZY, Paris, France. Filed May 7, 1918. Serial No. 233,138. 5 Claims. (Cl. 171—76.)

1. In an electric pocket lamp having an electric generator, a multipolar permanent magnet in the form of a cup the edge of which forms the alternate poles, a stationary armature having a star shaped core arranged co-axially with said magnet, and means to cause the multipolar magnet to rotate relatively to said stationary armature..



3. In an electric pocket lamp having an electric generator, a casing, a shaft journalled in the casing, a hollow sleeve fixed on said casing coaxially with the shaft, a stationary armature mounted on the sleeve, a permanent multipolar magnet mounted on the shaft and being in the form of a cup, the indented edge of which forms the alternate poles, a ferrule fixed on said magnet and forming a guide block on said shaft, a pinion keyed to said shaft and means meshing with the pinion for imparting rotation to the shaft to cause the magnet to rotate relatively to the stationary armature.

1,429,602. BASE FOR INCANDESCENT LAMPS. FREDERICK W. LYLE, Toronto, Ontario, Canada. Filed July 15, 1918. Serial No. 245,049. 3 Claims. (Cl. 176—22.)

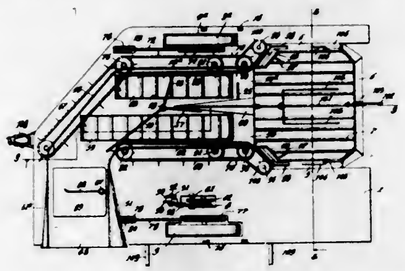


1. In a support for incandescent lamps the combination of a cylindrical core attached to a lamp bulb and provided with a shoulder having a projection on its annular face, a sleeve adapted to revolve and slide on the cylindrical core and provided with indentations adapted to engage the projection on the cylindrical core, and further provided with radially projecting lugs, a socket into which the said sleeve is adapted to slide, recessed slots in the socket wall adapted to engage said radially projecting lugs, and a member actuated by springs in the socket structure adapted to press the said radially projecting lugs of the sleeve into engagement with the recessed slots of the socket wall and to press the said projection on the cylindrical core into engagement with the indentations of the said sleeve.

1,429,603. SHOCK-FORMING MACHINE. FRANK MCCANN, North Battleford, Saskatchewan, Canada. Filed Dec. 10, 1918. Serial No. 266,102. 9 Claims. (Cl. 56—415.)

1. In a shock forming machine, a lateral receiving passage and an intercommunicating longitudinal passage, a longitudinal portion dividing the rear portion of the longitudinal passage into two delivery passages, a gate vertically pivoted in line with and in advance of the said longitudinal portion and comprising a forwardly extending

wing and rearwardly extending diverging wings, the forwardly extending wing alternately connecting the lateral receiving passage with one of the delivery passages, a sheaf



feeder in the receiving passage adapted to be automatically thrown into action by the weight of the sheaves, and conveyors for positively moving the sheaves through the longitudinal passage.

1,429,604. AUTOMATIC FOOT, TOE, AND ANKLE BRACE. GOTTLIEB F. MADINGER, St. Joseph, Mo. Filed Nov. 7, 1921. Serial No. 513,486. 3 Claims. (Cl. 128—80.)



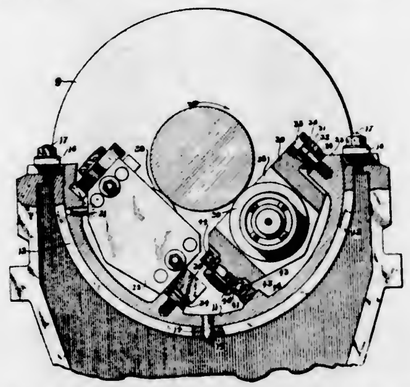
1. A combined toe and ankle brace for rectifying deformed feet comprising a boot-like member having a foot portion and a leg portion, the instep of the boot portion to the leg portion being split down the front, the margins of said split being overlapped, and a spiral strap attached to the margin of the leg portion adjacent the instep and extending spirally around the leg portion, and a buckle attached to the upper end of the leg portion and with which said strap engages.

1,429,605. PROCESS AND APPARATUS FOR PRODUCING BODIES UNDER TENSION TO BE USED AS TIRES FOR VEHICLE WHEELS AND THE LIKE. DEMETRIO MAGGIORA, Florence, Italy. Filed Nov. 17, 1919. Serial No. 338,642. 7 Claims. (Cl. 154—14.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



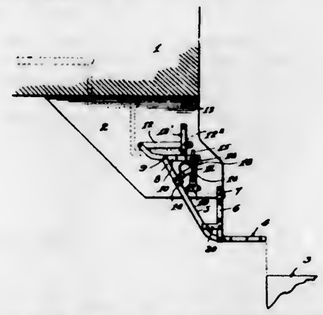
6. The method of producing baries under tension consisting in expanding the body to abnormal size, and permitting the body to contract by its inherent resiliency about an internal body member.

1,429,606. SUPPORTING BEARING. ROLAND MARSLAND, Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1920. Serial No. 434,259. 13 Claims. (Cl. 64—38.)



13. A supporting bearing for a rotatable element comprising a plurality of rollers, supporting frames for the rollers and pivot means for each frame arranged behind its roller, considering the direction of rotation of the roller and the element at the place of contact thereof, whereby each frame and its roller may move about an axis substantially parallel to the radius of the rotatable element passing through said place of contact.

1,429,607. DROP STEP FOR PASSENGER COACHES. JOSEPH F. MAURER and GEORGE W. BEISER, Peru, Ill. Filed Apr. 10, 1922. Serial No. 551,362. 7 Claims. (Cl. 105—448.)

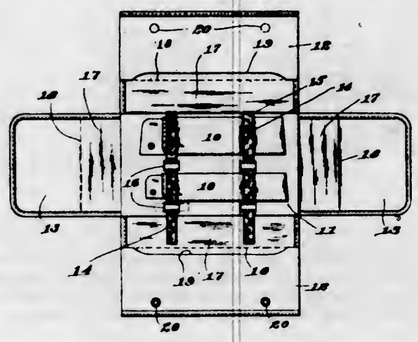


1. In a device of the nature described, the combination with a step structure including an auxiliary step suspended therefrom adapted to fold beneath it, an arm rigidly secured to said auxiliary step, and a lever pivoted on the structure to which said arm is pivoted, of a stop member secured on said step structure adapted to receive the point of pivotal connection of the said arm and lever against it when the step is lowered for sustaining the latter positively in its position for use.

1,429,608. COLLAR CASE. JOSEPH M. MAY, East Milton, Mass., assignor to Ryan-Cushing Co., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 26, 1920. Serial No. 376,496. 4 Claims. (Cl. 150—34.)

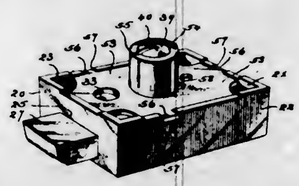
4. A case for resilient strip-form articles, comprising a stiff flat base having a frictional surface adapted to engage the base of a stack of such articles, a band having

frictional under and upper surfaces, fast at one end to said base and adapted to pass over the stack, and nonmetallic means having a frictional under surface, under which the band passes after passing over the stack; the



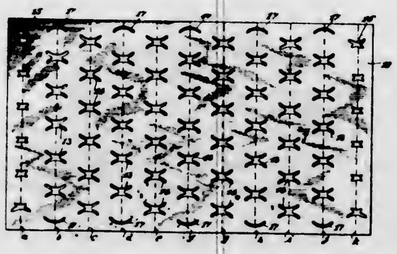
whole being organized to hold a stack in place on the base by friction when the band is drawn taut; and flaps extending from the edges of the base and adapted to enclose the stack and band.

1,429,609. LOCK. WILLIS R. MICHAEL, York, Pa. Filed Mar. 22, 1922. Serial No. 545,709. 9 Claims. (Cl. 70—75.)



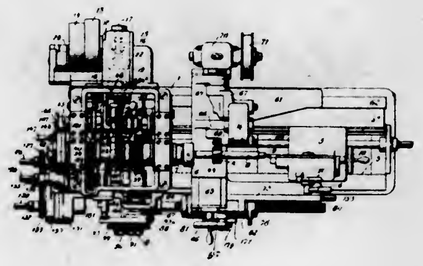
1. In a lock the combination with a bolt-plate having a lug thereon, of a rotatable key-post, a series of tumblers pivotally sustained so as to swing at one side of the key-post and across the path of the bolt-lug, said tumblers being reversible from one side to the opposite side of the key-post whereby the lock may be changed from a right to a left-hand lock.

1,429,610. EGG HOLDER AND CARRIER. HERBERT L. G. MOORE, Hoboken, N. J. Filed July 8, 1920. Serial No. 394,752. 9 Claims. (Cl. 217—33.)



1. An egg-tray composed of three sheets of flexible material, each creased or lightly scored transversely on predetermined spaced parallel lines for the purpose of folding, one of said sheets being provided with approximately X-shaped openings cut out on said scored lines, the other sheets being provided with openings of a shape to enable the three sheets to be interlocked when folded, thereby forming a plurality of single egg receptacles on both sides of the tray.

1,429,611. METAL-CUTTING MACHINE. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 10, 1917. Serial No. 201,338. 207 Claims. (Cl. 10—154.)



1. The combination in a relieving machine, of a rotatable blank-carrying spindle, a cutting tool, mechanism for effecting relative movement between the tool and the blank longitudinally of the latter, mechanism for effecting relieving movements of the tool in timed relation to the blank rotation, and mechanism including a rack and a pinion relatively movable in proportion to the said longitudinal movement between the tool and blank for varying the relation between the relieving movements of the tool and the rotative movement of the blank.

60. The combination in a relieving machine, of a rotatable blank-carrying spindle, a cutting tool, mechanism for effecting relative movement between the tool and the blank longitudinally of the latter, mechanism including a splined shaft for effecting relieving movements of the tool in timed relation to the blank rotation, disengageable mechanism supplemental to the shaft for varying the relation between the relieving movements of the tool and the rotative movement of the blank in proportion to the said longitudinal movement, and means for preventing variation in the aforesaid timed relation when the said mechanism is disengaged.

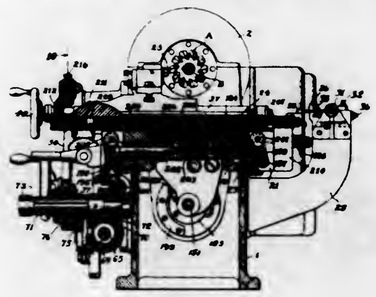
100. The combination as described, of a rotatable blank-carrying spindle, a cutting tool, means for feeding the tool with respect to the blank, a controlling member connected to the spindle so as to rotate slightly slower than the spindle, means operable after one revolution of the controlling member and after a little more than one revolution of the spindle for stopping the spindle, and automatic means for starting the spindle after each stopping thereof.

125. In a relieving machine, the combination of a rotatable blank-carrying spindle, a cutting tool, means for feeding the tool longitudinally of the blank in timed relation to the spindle rotation, automatically acting mechanism for effecting regular relieving movements of the tool, automatic means supplemental to the last said means for repeatedly withdrawing the tool from the blank, and means for changing the timed relation of the relieving movements in accordance with the feed.

205. In a metal cutting machine, the combination with a blank-carrying spindle, a cutting tool associated with the blank, a carriage for supporting said tool, and means for rotating said spindle, of a feed shaft for moving said carriage, two auxiliary spindles, means for respectively

operating said spindles at different speeds and for operating one of said spindles intermittently by said spindle-rotating means, and means comprising a train of gear wheels connected to said feed shaft and selectively connected to one of said auxiliary spindles according to the feed desired.

1,429,612. MECHANICAL MOVEMENT. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Original application filed Mar. 31, 1919, Serial No. 286,524. Divided and this application filed July 29, 1920. Serial No. 399,715. 170 Claims. (Cl. 82—14.)



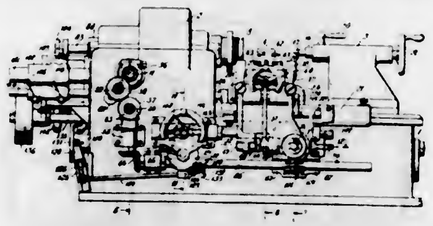
5. The combination of a guide, a pin adapted to engage the guide, two supports to which the guide and the pin respectively are normally fixedly secured and whereby their relative movements are limited to two directions at an angle to each other, and automatic means for effecting relative intermittent movements between the supports in one of the said directions.

70. A mechanical movement comprising in combination, a holder, and a tool relatively movable in a predetermined direction, the said tool being also movable transversely of the said direction, means for effecting relative movement between the tool and the holder in the said direction, automatic means for rapidly withdrawing the tool transversely of the said direction at intervals, automatic means for slowly returning the tool transversely of the said direction after each withdrawal, and means for differently limiting the returning movements of the tool so that the successive positions of the tool lie in a path in a direction different from the said predetermined direction.

130. The combination in a mechanical movement of the class described, of a movable carriage, a tool on the carriage relatively movable transversely of the direction of carriage movement, automatic means for moving the carriage longitudinally at intervals, means including a former and a relatively movable former pin on the carriage for controlling the tool to cause it to assume different positions with respect to the carriage following successive movements of the carriage, automatic means for withdrawing the former pin from the former at the time of each carriage movement, locking means between the former pin and the carriage, and automatic means for effecting locking after each carriage movement and unlocking before the next following carriage movement.

1,429,613. METHOD OF MAKING MILLING CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Original application filed Mar. 31, 1919, Serial No. 286,524. Divided and this application filed Sept. 27, 1919, Serial No. 326,875. Renewed July 5, 1921. Serial No. 482,538. 54 Claims. (Cl. 76—101.)

1. The herein described method which consists in axially rotating a blank, in providing a cutting tool in position to cut the blank, in effecting intermittent feeding movements between the tool and the blank longitudinally of the latter, in relatively moving the tool and the blank out of operative relation prior to each feeding movement,



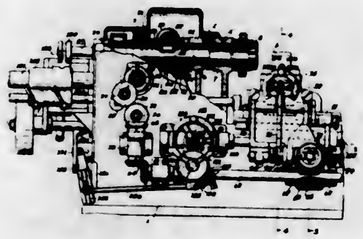
and in restoring the tool and the blank into operative relation after each feeding movement, the last said operative relation being so determined at each successive instance as to cut the blank with a varying diameter.

1,429,614. MILLING CUTTER FOR GEARS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 26, 1918, Serial No. 268,355. Renewed Mar. 24, 1922. Serial No. 546,519. 1 Claim. (Cl. 29—103.)



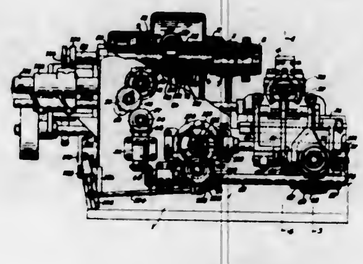
A milling cutter for cutting a predetermined contour conforming exactly to the space between two adjacent gear teeth, provided with a plurality of teeth, each having a helicoidal front cutting face with a contour adapted to cut the said predetermined contour and having the outer surface behind the cutting face relieved along lines extending backward and inward from the edge to permit grinding on the cutting face without changing the said contour.

1,429,615. METAL-CUTTING MACHINE. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Original application filed Mar. 31, 1919, Serial No. 286,524. Divided and this application filed July 29, 1920, Serial No. 399,716. Renewed July 19, 1922. Serial No. 576,148. 18 Claims. (Cl. 82—19.)



1. In a metal cutting machine of the type in which there is provided a rotatable blank-carrying spindle, a transversely movable cutting tool adapted to engage the blank at the front thereof and means for effecting relative longitudinal movement between the tool and the blank, and in which there may be provided means for effecting transverse relieving movements of the tool in timed relation to the rotation of the spindle, the combination of a former mounted in longitudinally fixed relation to the blank and having a contour the reverse of that desired to be cut on the blank, and a former pin mounted in longitudinally fixed relation to the tool and engaging the former at the rear thereof, the said former pin controlling the transverse movements of the tool to cause it to follow the contour of the former and the action of the former pin being supplemental to that of the relieving means when the latter is provided.

1,429,616. METHOD OF MAKING MILLING CUTTERS. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Original application filed Mar. 31, 1919, Serial No. 286,524. Divided and this application filed July 29, 1920, Serial No. 399,717. Renewed July 19, 1922. Serial No. 576,149. 8 Claims. (Cl. 82—19.)

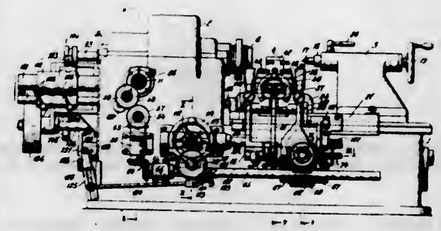


1. The herein described method consisting in axially rotating a blank, in providing a cutting tool in position to engage the blank at the front thereof and cut it, in providing a former having a contour the reverse of that with which the blank is to be shaped, in providing a former pin connected with the tool and normally engaging the former at the rear thereof, and in effecting relative feeding movement between the pin and the former and between the tool and the work longitudinally of the latter, the former pin following the contour of the former and thus causing the tool to cut the said contour on the blank.

1,429,617. METAL-CUTTING MACHINE. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 31, 1919, Serial No. 286,524. Renewed July 19, 1922. Serial No. 576,159. 342 Claims. (Cl. 82—19.)

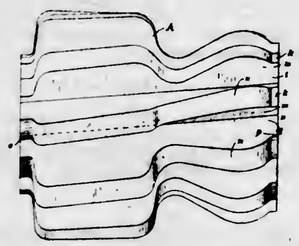
100. In combination, a rotatable blank-carrying spindle, a cutting tool, automatic means for effecting at intervals relative intermittent feeding movements all in the same direction between the tool and the blank longitudinally of the latter, means for moving the tool inward or outward as longitudinal movement takes place so as to cut the blank with different diameters, automatically acting mechanism for effecting regular supplemental relieving movements of the tool independent of the aforesaid movements, and automatic means for stopping the spindle rotation and the relieving movements at the time of each feeding movement.

250. The described combination of a rotatable blank-carrying spindle, a longitudinally movable tool carriage, a transversely movable slide on the carriage, a tool slide mounted on the first said slide and transversely movable thereon, automatic means for moving the tool slide trans-



versely to withdraw the tool from the blank at intervals, locking means between the slides, and automatic means for effecting unlocking at the time of each withdrawal and for subsequently effecting locking.

1,429,618. MILLING CUTTER. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 26, 1920, Serial No. 368,928. Renewed July 19, 1922. Serial No. 570,160. 9 Claims. (Cl. 29—103.)



1. A milling cutter for cutting a predetermined irregular contour consisting in part of a line or lines inclined with respect to the axis at an angle or angles in excess of the maximum angle at which a longitudinally fed former pin will follow outward along an inclined part of a predetermined former, the said cutter comprising a plurality of generally longitudinal teeth each provided with a helicoidal front cutting face with an outer cutting edge of such form that the projection of said edge about the axis of the cutter upon an axial plane of intersection is the same as the said predetermined contour, the outer surface of each tooth behind the helicoidal cutting face being relieved along lines extending backward and inward from the outer edge of the face in uniform relationship whereby the cutter may be ground on the helicoidal faces without changing the effective contour, and the inclination and spacing of the teeth being such that the relieved surface of each tooth extends backward toward the next following tooth to an extent beyond that to which it could be cut by a preliminary shaped milling cutter having a length equal to that of the first said cutter.

1,429,619. RECOIL CHECK. CHARLES A. NELSON, Utica, N. Y., assignor to Savage Arms Corporation, a Corporation of Delaware. Filed Sept. 21, 1918. Serial No. 255,059. 6 Claims. (Cl. 89—42.)

2. A recoil check comprising an imperforate expansion wall rigidly secured to and extending forwardly from the

barrel end, gas escape apertures at the extreme end of said wall and a separately formed baffle plate having



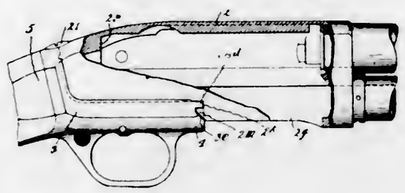
double opposed bosses surrounding the bullet passage therethrough and rigidly secured to said expansion wall.

1,429,620. TRACK FOR SLIDING DOORS. STUART W. PARSONS, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed July 28, 1921. Serial No. 488,257. 11 Claims. (Cl. 16—96.)



1. In a device of the character described, track sections positioned end to end, a bracket having lugs extending through the respective sections, and a plate formed separately from said bracket and overlapping and secured to the abutting ends of said sections, said plate and bracket being in engagement with one another whereby one secures the other in position.

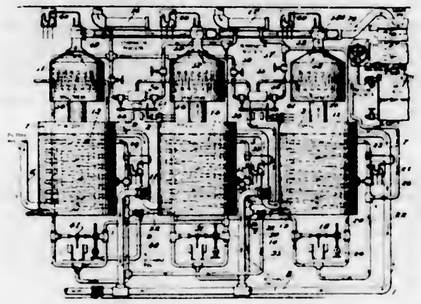
1,429,621. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Original application filed Aug. 9, 1917, Serial No. 185,394. Divided and this application filed Sept. 15, 1919. Serial No. 323,766. 12 Claims. (Cl. 42—75.)



1. In a separable frame for firearms, in combination, frame members comprising a receiver provided with a mechanism chamber and a guard-frame provided with an upwardly extending portion and an arm extending forwardly from said upwardly extending portion and below said mechanism chamber; interlocking means comprising pairs of oppositely disposed faces for sliding connection of said receiver and said upwardly extending portion and arm of the guard-frame; means for detachably locking said arm at the forward end thereof to said receiver; and means on said goard-frame engageable with means on said guard-frame and engageable with means on said receiver for detachably connecting the rear end of said receiver and the upwardly extending portion of said guard-frame.

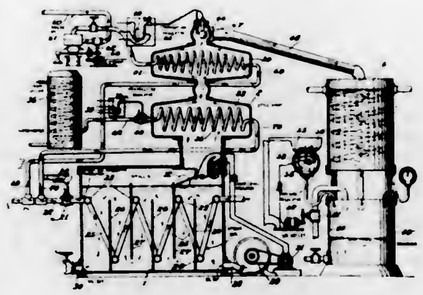
1,429,622. APPARATUS FOR CRACKING OILS. WILLIAM B. D. PENNIMAN, Baltimore, Md. Filed Apr. 25, 1917. Serial No. 164,337. 9 Claims. (Cl. 196—13.)

3. In an apparatus for cracking oils, a plurality of stills for the oil, a heating unit submerged in each still, two sources of fluid under different thermal conditions, means for supplying fluid from each source to the heating units, and thermostatically controlled means for regulating the supply of fluid from each source to each heating unit, with means for passing the fluid from the heating unit of one still to the heating unit of the next still,



the thermostatically controlled supply to each still after the first being mingled with that from the preceding still, and the thermostat being acted upon and controlled by the thermal condition of the combined supply of fluid from all the various sources, the oil being passed through the system from still to still in the opposite direction from the fluid flow.

1,429,623. APPARATUS FOR CRACKING OILS. WILLIAM B. D. PENNIMAN, Baltimore, Md. Filed May 5, 1917. Serial No. 166,587. 7 Claims. (Cl. 196—3.)

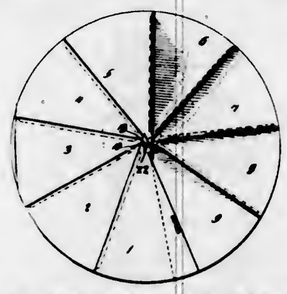


6. In an apparatus for cracking oils, a still for containing the oil, steam containers in contact with the oil, a source of wet steam, a pipe leading from the said source to the said containers in the still, a superheater in the pipe line, thermostatic means controlled by the temperature of the steam in the container for regulating the temperature of the superheater, a vapor chamber in communication with the still space over the oil, a steam container therein, means for supplying wet steam to the steam container, and thermostatically controlled means under the influence of the thermal condition of the vapor which is passed in contact with the steam container, the said thermostatic means controlling the supply of wet steam.

1,429,624. SILAGE COVER. BERT B. PERKINS, Monticello, Minn. Filed Feb. 15, 1921. Serial No. 445,150. 3 Claims. (Cl. 217—78.)

1. A silage cover comprising a plurality of elements

successively overlapping to provide a collapsible structure and adjustable from a common center to correspond to



the diameter of the silo with which it is associated, and engaging means on the overlapping edges of the elements.

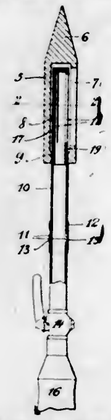
1,429,625. COMPASSES. HEINRICH PERROT, Calw, Germany. Filed Dec. 29, 1919. Serial No. 348,228. 7 Claims. (Cl. 33—157.)



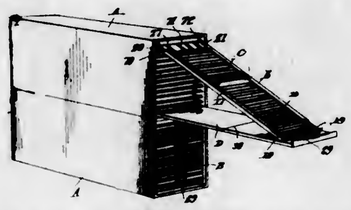
1. A compass or analogous instrument comprising a pair of legs having enlarged upper ends or heads which are pivotally connected together; and a clamping device for said legs embodying a presser piece having an edge cooperative with the adjacent edges of said heads, and an actuating member for the presser piece, the cooperating edges of said head and presser piece having complemental wedge-shaped surfaces for direct engagement with each other.

1,429,626. SOLDERING IRON. ANTONY PLOCHOCKI, Brooklyn, N. Y., assignor to himself and Adam Weisman, Brooklyn, N. Y. Filed Nov. 28, 1921. Serial No. 518,158. 1 Claim. (Cl. 158—26.)

As a new article of manufacture, a soldering iron comprising in combination a cylindrical soldering pointed head having a cylindrical axially disposed rearwardly open combustion chamber within the same, a gas supply pipe screwed into the said rear opening of the said chamber, a valve in said pipe for controlling the flow of gas therethrough, an operating handle on said pipe, air inlet openings provided in said pipe, an apertured sleeve on said pipe for adjusting the said air inlet openings therein, a burner member having a tapered end adapted to be held frictionally in the said gas supply pipe in centrally disposed operative position within the said combustion chamber, said burner member having three longitudinal circumferentially equally spaced slots leading from the said gas supply pipe to the said combustion chamber, three longitudinally circumferentially equally spaced wider slots leading from the said combustion chamber to the outside of said soldering head, the burner member being adapted to be placed in position within said combustion chamber with the three burner member slots in predetermined operative relationship to the said three slots in the soldering head whereby to regulate the flow of the gas from the said gas pipe to the slots in the soldering head.



1,429,627. CABINET. JAMES HENRY RAND, Jr., and VERNON FRANKLIN KING, Tonawanda, N. Y., assignors to American Cardex Co. Inc., Tonawanda, N. Y., a Corporation of New York. Filed Dec. 2, 1918. Serial No. 265,007. 8 Claims. (Cl. 45—2.)

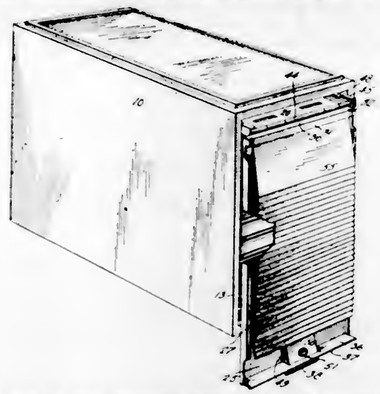


8. In a cabinet, the combination of a casing, a plurality of spaced sheet metal partitions in said casing having flanges at their front portions forming stops and stiffening the front portions of the partitions, a plurality of shallow trays arranged to slide in and out in said casing between said partitions, each of said trays having a bottom and a pair of side walls formed of a portion of substantially flat sheet metal bent angularly at its side edges to provide integral side walls and to stiffen the bottom portions, sheet metal tail pieces having bottoms hinged at their front edges to the rear ends of said trays and having upwardly extending flanges which cooperate with the partitions above to guide the tail pieces in sliding movements of the trays, stops projecting downwardly below the bottoms of said tail pieces, said tail piece stops cooperating with the stops at the front portions of said partitions to arrest outward movement of said trays and to releasably retain said trays pivotally supported in front of said casing when they are pulled out.

1,429,628. RECORD CABINET. JAMES H. RAND, Jr., Tonawanda, N. Y. Filed Aug. 9, 1920. Serial No. 402,089. 20 Claims. (Cl. 45—2.)

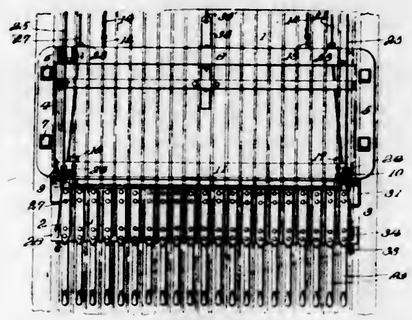
3. A cabinet comprising side walls having their front and rear ends formed to provide inwardly opening channels and outwardly projecting marginal flanges, and a bot-

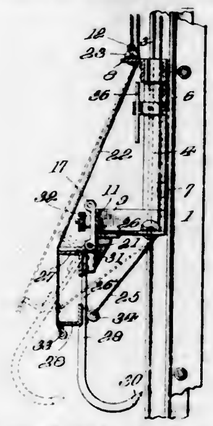
tom wall, partitions having projecting ends extending into said channels, and channeled spacing members inter-



posed between said partitions and provided with projecting ends extending into the channels of said wall ends.

1,429,629. DEVICE FOR CLEANING FLUME GRATINGS. WILLIE O. RANDLETT, Richmond, Va., assignor of one-half to Cyrus B. Buchanan. Filed June 16, 1921. Serial No. 478,187. 11 Claims. (Cl. 210—176.)





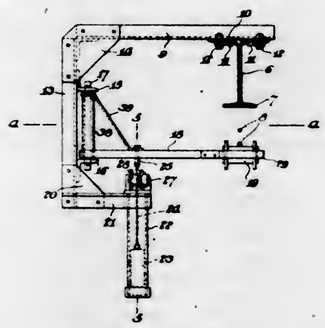
1. The combination with a grating of the character described, comprising a frame sliding longitudinally of said grating, a pivoted reversible rake carried by the lower end of the frame, means for raising said frame, and means for rocking the rake on its pivot.

1,429,630. LID HOLDER. LOUIS N. REBIDEAU, Basin, Wyo. Filed June 21, 1921. Serial No. 479,224. 3 Claims. (Cl. 220—24.)



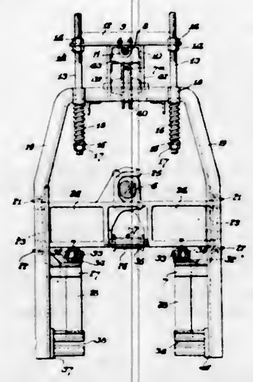
1. In combination, a receptacle formed of rigid material having at its upper end a reduced neck portion with a flared upwardly opening mouth, of a lid having a lower portion adapted to fit inside the neck of the can and a rigid upwardly extending portion adapted to fit the inside diameter of the flared mouth of the can, said rigid flared portion of the lid having an opening in one side thereof; a vertical member passing through said opening and secured at its upper end to the flared mouth of the can underneath the opening in the flared part of the lid to hold said flared part of the lid against rotation on the flared mouth of the can when the two are in operative relation to each other, said vertical member being curved outwardly at a point above the lid and then turned downwardly with its lower end secured to the body of the can to support the lid for upward and downward movement on said vertical member, the upper end of said vertical member being suitably arranged for guiding the lid into operative position on the can to cause the flared part of the lid to always come into the same relative position to the flared top of the can when put upon the can, whereby when the flared top of the can and the flared part of the lid are once perfectly fitted to each other they will always be guided into the same relative position to each other when the lid is placed on the can.

1,429,631. CABLE CARRIER. JAMES F. REILLY, Philadelphia, Pa. Filed Feb. 6, 1922. Serial No. 534,365. 10 Claims. (Cl. 104—182.)



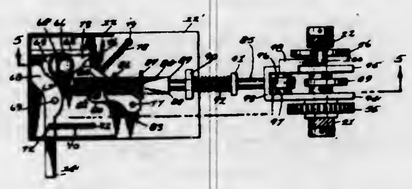
1. A device for supporting the cable of a cable operated railway comprising a supporting framework, a swinging arm supported by said framework, means carried by said swinging arm adapted to support the cable, and means for maintaining said swinging arm in its normal operative position and for returning the same thereto, said means including a cable having one end connected to said swinging arm at a point some distance from the pivotal axis thereof, and means for maintaining tension on said cable.

1,429,632. CABLE CARRIER. JAMES F. REILLY, Philadelphia, Pa. Filed Feb. 18, 1922. Serial No. 537,466. 21 Claims. (Cl. 104—182.)



1. A device for supporting the operating cable of a cable operated cableway comprising the combination with the main cable, of a framework and means for supporting said framework with respect to said main cable, means supported by said framework adapted to engage the main cable in the normal position of said means, and means associated with said main cable engaging means adapted to support the operating cable in said normal position.

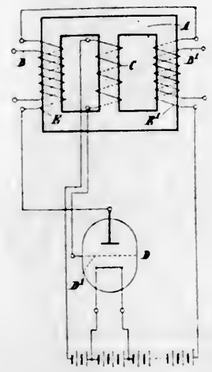
1,429,633. COIN-CONTROLLED VENDING MACHINE. JACOB RIEDMUELLER, New York, N. Y. Filed June 28, 1921. Serial No. 480,948. 4 Claims. (Cl. 194—9.)



1. In a coin operated vending machine of the class described, a pair of contacts adapted to close a motor circuit when brought into engagement, a trigger mechanism, an operating lever for operating said trigger mechanism by the intermediary of the inserted coin, a spring controlled rod, a bevelled finger on said rod, said finger adapted to close the motor circuit by effecting an engagement between said contacts, upon the operation of said trigger mechanism, a train of gears adapted to be operated upon the closure of the circuit, means for breaking the circuit, means for automatically resetting the trigger mechanism after each operation of the train of gears upon the closure of the motor circuit, means for dispensing a predetermined amount of liquid upon the closure of the motor circuit, and means for returning the dispensing means into their normal position after each operation.

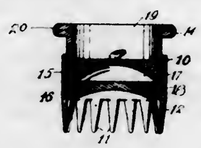
1,429,634. TELEPHONIC REPEATER. CHARLES ROBINSON, Reigate, and RONALD MARTIN CHAMNEY, London, England. Filed Nov. 18, 1919. Serial No. 338,861. 7 Claims. (Cl. 179—171.)

1. In a telephonic repeater, the combination of a current-magnifying device, a magnetic core structure comprising three cores magnetically in parallel with one another between two yokes common to the two sets of concurrent ends of the cores, two line-windings, one upon each of two said cores, a booster winding in two equal halves in series to assist one another, each mounted upon one of the said two cores which carry line-windings and having their two free ends connected to one operative side of the said cur-



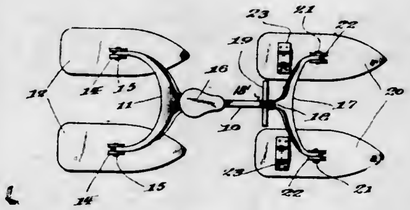
rent-magnifying device, a generator winding mounted on the third said core of the said core structure, and connected to the other operative side of the current-magnifying device, substantially as described.

1,429,635. COMB. EMMETT H. ROSS, Jamestown, N. Y. Filed Mar. 18, 1922. Serial No. 544,908. 2 Claims. (Cl. 132—13.)



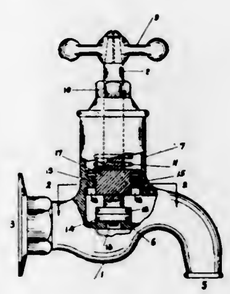
1. A comb having tubular teeth thereon connected to a chamber in said comb, and a screw cap fitting in the threaded wall of said chamber to press the contents of said chamber through said tubular teeth by turning said cap.

1,429,636. SNOW VEHICLE. ERNEST N. ROWE, Glenwood Springs, Colo., assignor of one-half to Harry McMillen, Glenwood Springs, Colo. Filed May 13, 1921. Serial No. 469,333. Renewed Apr. 21, 1922. Serial No. 555,917. 1 Claim. (Cl. 280—16.)



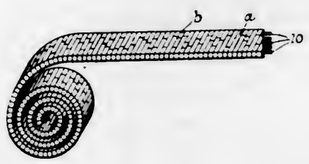
A snow vehicle comprising a pair of forks, one of the forks having a forwardly extending horizontal bar pivotally connected to the other fork, skees pivotally connected to the lower ends of the legs of the forks, a handle bar on the said other fork, and transverse straps on the rear portions of the front skees for engagement with the feet of the rider whereby the rider steers with the hands and feet.

1,429,637. FAUCET. MITCHELL W. RUSSELL, Springfield, Mass. Filed June 8, 1921. Serial No. 475,851. 2 Claims. (Cl. 251—132.)



2. The combination, in a faucet, with a case provided with a valve-seat and with oppositely-disposed interiorly-arcuate integral lugs having on their upper edges cam surfaces inclined in opposite directions, of a valve-stem provided with a valve to open and close the passage surrounded by said valve-seat, and further provided with a collar having in opposite sides thereof recesses to receive said lugs, the upper edges of said recesses forming inclined cam surfaces arranged and adapted to ride on said first-named cam surfaces when said valve-stem is rotated, and the long walls at one end of said recesses cooperating with adjacent ends of said lugs to limit the rotary movement of the parts, and a spring bearing on said collar to force the same with its parts in the direction to cause said valve to close said valve-seat.

1,429,638. BELT. ARNOLD O. RUTZ, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 20, 1918. Serial No. 240,987. 5 Claims. (Cl. 74—62.)



1. A power belt comprising a plurality of parallel expansible tension members, and a pulley contacting and wearing surface composed of transversely extending sections arranged side by side, some of which are composed of two or more pieces arranged end to end and having holes for receiving the tension members.

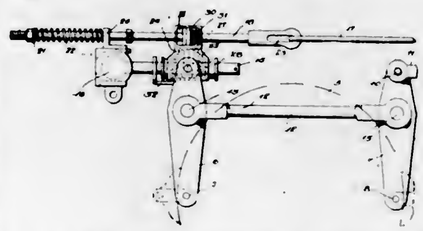
1,429,639. WRENCH. MARTIN SALOUN, Milwaukee, Wis., assignor of thirty per cent to Charles Stepanek, Milwaukee, Wis. Filed Sept. 26, 1919. Serial No. 326,432. 2 Claims. (Cl. 81—165.)

1. In a combination tool of the class described, a shank having an end portion provided with a relatively fixed jaw and an elongated transversely extending opening and a smaller opening in alinement with the elongated opening, a nut block slidably positioned in the elongated opening, a movable jaw having side portions which are guided by and extend over the outer side portions of the end of the shank and the nut block and are rigidly connected to said block, and a screw journaled at



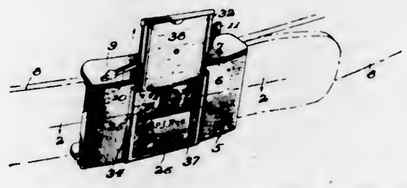
both ends in the shank end portion and threaded through the block and having medially of its length a head portion positioned in the smaller opening.

1,429,640. SLACK ADJUSTER. WILLIAM H. SAUVAGE, Flushing, N. Y., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Filed Feb. 6, 1920. Serial No. 356,750. 10 Claims. (Cl. 188—199.)



5. In a slack adjuster mechanism, in combination, live and dead levers at one side of a wheel for exerting clasp brake action, a push rod, and an adjusting rod occupying substantially parallel relation, a member associated with the dead lever carrying positively acting means operating on both the push rod and the adjusting rod whereby relative free movement of the adjusting rod may take place in one direction and a similar movement on the push rod in the opposite direction, thereby to permanently take up and hold the excess travel, and spring means associated with one of said rods adapted to insure operation of the slack adjuster when excess travel occurs.

1,429,641. BUCKLE. LOUIS SAYKO, Boise, Idaho. Filed May 27, 1922. Serial No. 564,001. 3 Claims. (Cl. 40—150.)

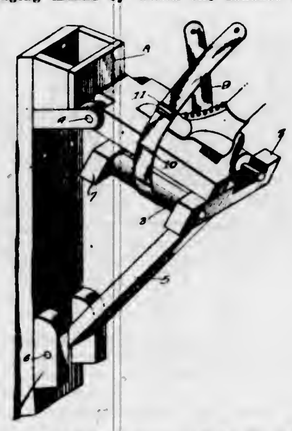


1. A buckle comprising a front and rear wall, the rear wall being arranged in spaced relation to the front wall whereby to form a socket, a card carrying plate arranged in said socket, the front wall being provided with openings through which the card carried by said plate may be seen, and a cover plate extended over said openings.

1,429,642. SHOE-POLISHING DEVICE. FREDERICK H. SCHLOTTMANN, Brooklyn, N. Y. Filed Sept. 9, 1921. Serial No. 499,589. 1 Claim. (Cl. 15—266.)

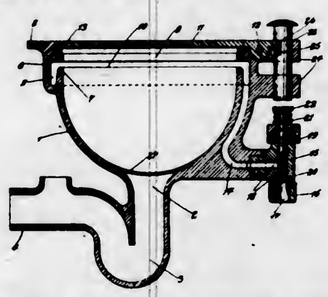
In a collapsible blacking stand, a back plate having means for attachment to a wall and a stationary arm

projecting therefrom at the upper part of the same, a gravity bracket hinged to the end of the arm and having bearings on the under side thereof, a brace hinged to the lower part of the back plate, the bracket and brace having coacting engaging means by which the bracket may be



held at will at an angle of approximately 45 degrees to the back plate, and rollers carried by the said bearings whereby a strip of fabric may be passed around the rollers and over a shoe on said bracket, said rollers being positioned to lie at opposite sides of the brace when folded.

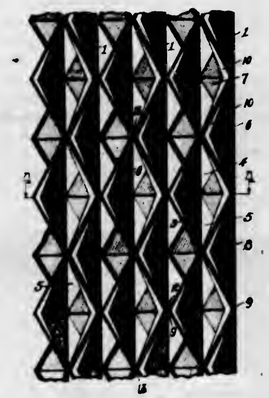
1,429,643. FLUSHING RECEPTACLE. EDWARD J. SCHNEIDER, St. Louis, Mo. Filed Aug. 31, 1921. Serial No. 497,183. 3 Claims. (Cl. 4—40.)



1. A device of the character described, comprising a bowl, a passage for admitting water into said bowl, a valve controlling the admission of water into said passage, a stem for said valve, a rod supported for vertical movements into and out of engagement with said stem, a spring for moving the valves to closed position, a lid for the bowl arranged to be closed by gravity, a hinge structure for the lid, and a connection between said lid and said rod whereby movement of said rod to open the valve will open said lid and whereby movement of said lid to closed position will move the rod away from the valve stem.

7,429,644. RADIATOR CORE. VINCENT SCHREINER, Toledo, Ohio. Filed Mar. 28, 1921. Serial No. 456,301. 6 Claims. (Cl. 257—130.)

1. A radiator core having sheet metal strips forming water passages, the strips being nested and each having a separate set of transversely extending crimps along and extending inward from each side edge thereof and gradually losing themselves toward the opposite edge of the strips with the crimps of one set alternating with those of teh other, the strips having their side edges connected to form a water tight joint and the portions

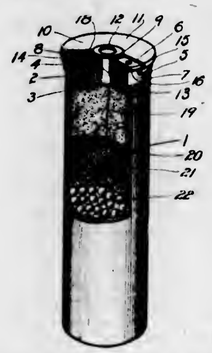


between the edges being separated to form a water passageway between the strips lengthwise thereof.

1,429,645. METHOD OF MAKING NUTS AND ARTICLE MADE THEREBY. HUGO F. SCHROEDER, Torrington, Conn., assignor to Schroeder Brothers Manufacturing Company, Torrington, Conn., a Copartnership consisting of Hugo F. Schroeder, Ernest E. Schroeder, Richard F. W. Schroeder, Gustave A. Schroeder, jr., and Arthur E. R. Schroeder. Filed June 29, 1921. Serial No. 481,200. 4 Claims. (Cl. 10—86.)

1. A method comprising rolling a thread in a sheet and forming on the sides of the sheet wings, and afterward forming the rolled-winged-sheet into a cylinder with the edges of the sheet and the wings solely in abutment to form an externally-threaded nut.

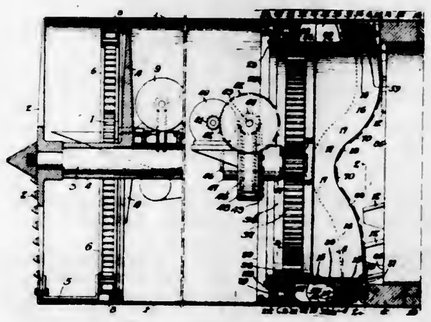
1,429,646. SHOTGUN SHELL. CHARLES A. SHAEFFER, Kansas City, Mo., assignor of one-third to Harry E. Sherman and one-third to Louie A. Sherman, both of Kansas City, Mo. Filed May 2, 1921. Serial No. 466,021. 3 Claims. (Cl. 102—17.)



1. A shell comprising a tube, a base wad within the tube, a flange on the tube against the base wad, a base

cap having an outer flange engaging over the tube, projections on the base cap engaging the flange on the tube, an inner flange on the base cap projecting into an opening in the base wad, and a primer cap having a flange overlapping the outer flange on the base cap, and provided with a primer extending into the opening in the base wad.

1,429,647. MACHINE FOR BUILDING TUNNELS AND THE LIKE. MILTON ROY SHEEN, Philadelphia, Pa., assignor to Tunnel Machine Manufacturing and Engineering Company, Philadelphia, Pa., a Corporation of Delaware. Filed Nov. 20, 1920. Serial No. 425,534. 18 Claims. (Cl. 61—85.)



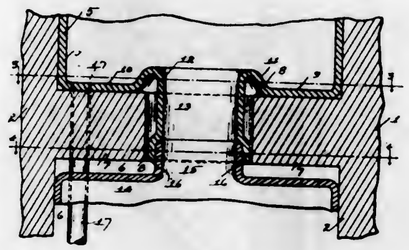
1. A machine for building tunnels and the like, having in combination, a casing, an annular bearing flange secured within the casing, said bearing flange having a cylindrical track thereon, an annular bearing surface upon the bearing flange, a bearing ring, rollers loosely mounted upon the bearing ring adapted to travel upon the said cylindrical track and upon the said annular bearing surface of the bearing flange, and a cam cylinder rotatably mounted upon the said rollers of the bearing ring.

1,429,648. SLED BRAKE. WILLIAM S. SHIFFER and VICTOR L. ZWALLY, Lancaster, Pa. Filed Aug. 5, 1920. Serial No. 401,368. 2 Claims. (Cl. 188—8.)



1. The combination with a sled, of pivoted levers pivoted to each side of the sled, the rear ends of the pivoted levers being provided with downwardly extending arms, the lower ends of said downwardly extending arms being provided with bifurcations adapted to receive the sled runners, the arms of the bifurcations forming ground engaging elements disposed on each side of the runners, a guide bracket for guiding the rear ends of each of the pivoted levers in its downward and upward movement, coiled springs connected to the rear ends of the levers and to the sled for normally holding the ground engaging elements in their upward positions, the forward ends of the levers being provided with offset portions and hand engaging members, said offset portions arching the runner brackets, said hand engaging portions of the levers being disposed adjacent the forward end of the sled and within reach of the operator where they can be singly or simultaneously moved.

1,429,649. REFRIGERATOR. ANDREW SIMONS, Grand Haven, Mich. Filed Nov. 25, 1921. Serial No. 517,597. 4 Claims. (Cl. 62—89.)

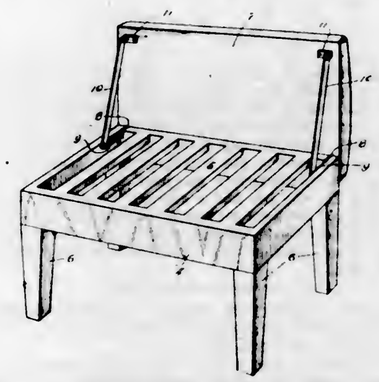


1. In a structure of the character described having two chambers with a partition between them having an opening therethrough; a lining for one chamber, one of whose walls extends integrally first inwardly and then outwardly to form a hollow neck extending inwardly into the space enclosed by said lining and outwardly into said opening, said neck having an outer end portion expanded in cross section; a second lining for the other chamber having an outwardly extending hollow neck extending into said expanded end portion of the first mentioned lining's neck.

1,429,650. PROCESS OF MANUFACTURING ALDEHYDES AND ANHYDRIDES FROM DIESTERS. FREDERICK W. SKIRROW, Shawinigan Falls, Quebec, Canada, assignor to Shawinigan Laboratories, Limited, Montreal, Quebec, Canada. Filed Nov. 8, 1920. Serial No. 422,665. 8 Claims. (Cl. 260—123.)

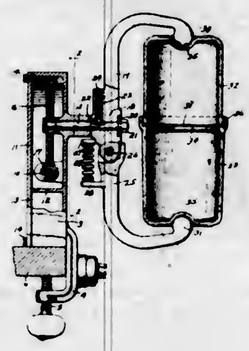
1. In the decomposition of diesters to aldehydes and anhydrides, the use of an oxide of sulphur as a catalytic or decomposing agent.

1,429,651. BAGGAGE STAND FOR HOTEL GUEST ROOMS. ANNA W. SLAGHT, Evanston, Ill. Filed June 6, 1921. Serial No. 475,312. 5 Claims. (Cl. 155—90.)



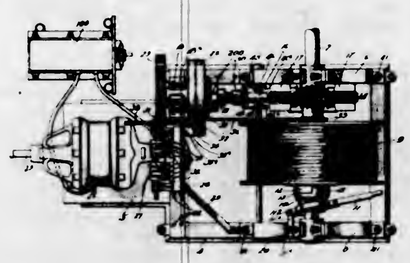
1. In combination with a baggage-stand of the character described, a leg-supported frame comprising front, rear and end rails, a central baggage-receiving section level with said surrounding rails whereby said section and rails present a flat surface throughout, and a lid hinged to the rear frame-rail and forming a barrier in its raised position for the purpose set forth.

1,429,652. LIQUID AERATOR. JAMES W. SMALL, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,085. 9 Claims. (Cl. 259—81.)



1. A liquid aerator comprising a power driven shaft having a depression in one side; an aerator vessel holder journaled on said shaft; and a spring-pressed member mounted in the holder and engaging the depression.

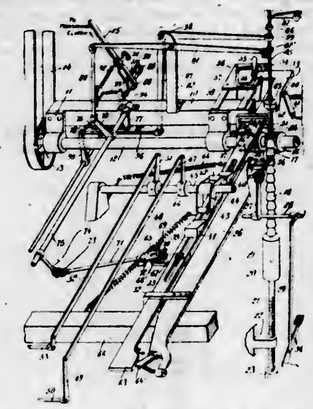
1,429,653. HOISTING MECHANISM. BARTON S. SNOW, Batavia, Ill., assignor to T. W. Snow Construction Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 18, 1921. Serial No. 453,421. 11 Claims. (Cl. 254—173.)



1. In a hoist, the combination of a frame having bearings spaced apart, a shaft mounted in said bearings and provided with a gypsy, a drum on said shaft, an element on said shaft through the medium of which said shaft is rotated, said shaft, drum and element being reversible, end for end, as a unit, and said drum being located midway of said bearings in either position of said shaft.

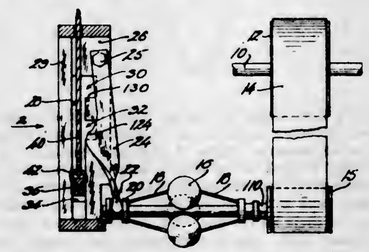
1,429,654. MECHANICAL MOVEMENT. GEORGE C. SNYDER, New York, N. Y. Filed Mar. 6, 1920. Serial No. 363,823. 19 Claims. (Cl. 74—14.)

1. In a mechanical movement for controlling the operation of a machine, the combination of a controlling member, means for imparting a step-by-step movement to the member, and means associated with the member and



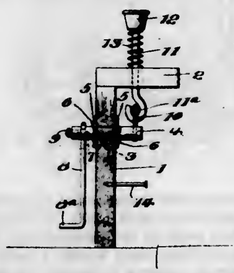
adapted to actuate controlling elements of the machine as the member is advanced.

1,429,655. SAFETY DEVICE FOR MOTORS. JOHN STENZEL, Jr., Windsor, Colo. Filed July 20, 1920. Serial No. 397,709. 3 Claims. (Cl. 192—116.)



1. In combination, a driven shaft, a governor connected therewith, an arm movable by said governor, a frame adjacent said arm and having a seat, a member adapted to rest on said seat when said shaft and governor move, power control means having connection with said member, said arm being adapted to force said member from said seat when the shaft and governor stop, whereby said member will release said power control.

1,429,656. IMPELLING DEVICE FOR GAMES. WILLIAM EVERETT STONEBRIDGE, New York, N. Y. Filed Oct. 7, 1921. Serial No. 506,140. 5 Claims. (Cl. 124—1.)



1. An impelling device comprising an upright support, a second supporting member disposed at an angle thereto,

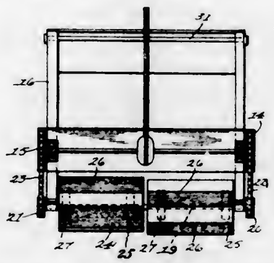
a shaft carried by said upright member, a striker on one end of said shaft, a rod projecting from the opposite end of the shaft, a plunger supported by the second supporting member, the lower end of said plunger being adapted to engage the said rod, a finger piece at the upper end of the plunger, and a spring surrounding the plunger and adapted to resist downward movement of the same.

1,429,657. SHOE-LACING MEANS. STEPHEN TRAWINSKI, Chicago, Ill. Filed May 13, 1922. Serial No. 560,680. 2 Claims. (Cl. 24—140.)



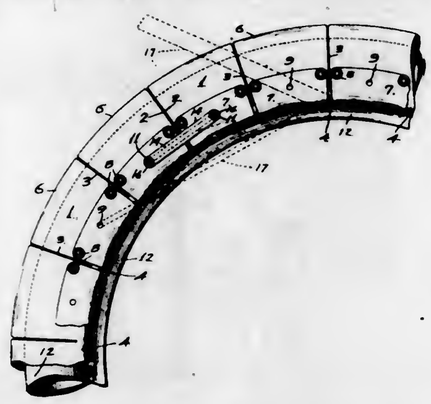
1. In a shoe lacing means, an upper divided to form an opening therein, a plurality of integral eyes suitably spaced apart upon adjacent edges of the said opening, the said eyes being formed by relatively long integral flap members projecting from the sides of the opening in the upper, the said flaps being folded back on a line substantially midway of their length and then secured to the inner face of the shoe upper, and a reinforcing strip within the adjacent edges of the shoe upper secured therein by means of an adhesive and a row of stitching passing through the said strip and the overturned edges of the integral flap.

1,429,658. AUTOMOBILE SLED. IVER URRVIG, Williston, N. Dak. Filed July 23, 1920. Serial No. 398,440. 1 Claim. (Cl. 301—41.)



A propelling means for motor sleds, comprising a shaft, a plurality of wheels on said shaft, a plurality of slats secured with their ends to the periphery of each pair of said wheels, each of said slats having a body part of triangular cross-section adapted to engage the snow covered ground with its pointed apex, and means for securing said slats on said wheels.

1,429,659. OVERTIRE. LEWES D. WALKER, Sacramento, Calif. Filed Feb. 23, 1922. Serial No. 538,780. 9 Claims. (Cl. 152—17.)



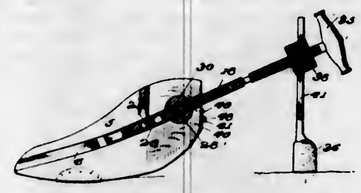
9. An over-tire comprising a casing separated at one point to provide two ends and cut transversely through the tread to the beads thereof at regular intervals between said ends to provide tread sections; shoes detachably connected to each section and embracing adjacent portions of the beads to prevent separation of said sections from said beads, each of said shoes being provided with centrally disposed apertures for the engagement of a placing and removing tool whereby said over-tire may be placed and removed; U-bolts detachably engaging and centrally disposed apertures of the shoes adjacent the two ends of the over-tire; and means for engaging the free ends of said U-bolts to retain the same in position to lock said over-tire upon a vehicle tire.

1,429,660. THERMAL RELAY. LAWRENCE E. WAGNER, Berkeley, Calif., assignor to Motor Protector Manufacturing Company, San Francisco, Calif., a Corporation of California. Filed Feb. 1, 1918. Serial No. 214,912. 7 Claims. (Cl. 175—294.)



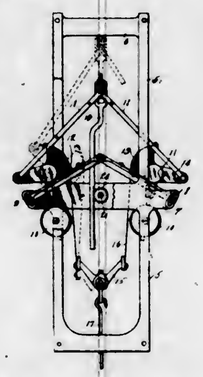
1. A protective device for an electric circuit, comprising a heating element in said circuit, means operative by an increase in temperature of the heating element for generating an electric current, and means operative by an increase in said current to a predetermined magnitude to open said circuit.

1,429,661. SHOE STRETCHER. HENRY WATERS, Bisbee, Ariz. Filed June 16, 1921, Serial No. 478,101. Renewed Aug. 8, 1922. Serial No. 580,546. 5 Claims. (Cl. 12—128.3.)



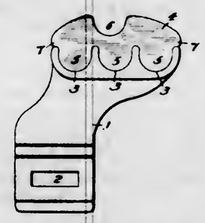
1. A shoe stretcher comprising a pair of sections, hinge plates secured to the rear ends of said sections and having aligned barrels, a hinge pin passed through said barrels and inclusive of pivotally connected sections whereby the sections may partake of a hinge movement with relation to each other, and a spreading member arranged between said sections.

1,429,662. WEIGHING SCALE. LEWIS C. WETZEL, Windsor, Ontario, Canada, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Dec. 21, 1916. Serial No. 138,257. 7 Claims. (Cl. 265—62.)



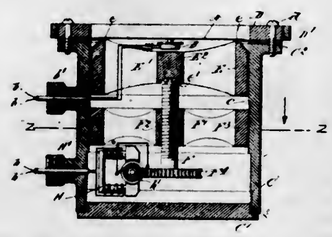
1. In a weighing scale, weighing mechanism comprising a supporting element, oppositely disposed pendulums carried by said element, means for actuating said pendulums, means whereby said pendulums are moved along said element when actuated, indicating means, and means connected with the pendulums and indicating means for transmitting movement from the pendulums to said indicating means in increased ratio as successive increments are weighed upon the scale.

1,429,663. BEARING. JESSIE B. WILLIAMS, Graniteville, S. C. Filed Oct. 27, 1921. Serial No. 510,685. 3 Claims. (Cl. 64—10.)



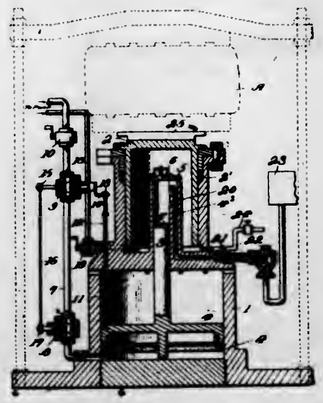
1. The combination with a whip roll stand or bearing, having longitudinally spaced recesses on its upper face, of a removable bearing block, said removable bearing block having a recess in its upper face and longitudinally spaced projections on the lower edge adapted for reception in the recesses.

1,429,664. DIAPHRAGM TUNING. EDWARD C. WOOD, Somerville, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Sept. 18, 1917. Serial No. 192,014. 2 Claims. (Cl. 181—5.)



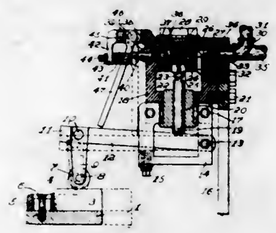
1. The diaphragm mounting above described, comprising means for holding the diaphragm at its edges and adjustable means for stretching said diaphragm, said means being applied to said diaphragm between said holding means and the center of the diaphragm, and comprising a slidable ring adapted to engage one surface of the diaphragm and means for adjusting said ring toward and from the diaphragm, the edge of said ring engaging said diaphragm being narrowed and located away from the inner wall of said casing, said adjusting means comprising a ring, threaded means for adjusting the ring with relation to the diaphragm and means comprising an electric motor to operate said threaded means.

1,429,665. HYDRAULIC PRESS. JAMES N. WOOD, Washington, D. C. Filed July 19, 1920. Serial No. 397,276. 6 Claims. (Cl. 138—17.)



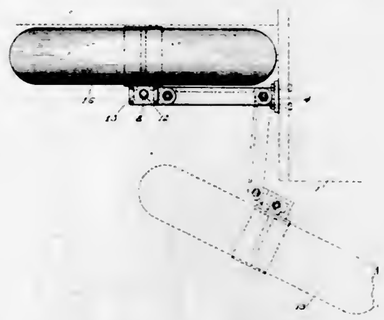
1. An hydraulic press comprising a main cylinder, provided with three interior cylindrical chambers of different diameters, pistons slidably mounted in said cylindrical chambers having piston heads of different areas, means for admitting fluid under pressure beneath said pistons and to the cylindrical chamber above the smaller of said pistons, and means for permitting the exit of fluid from said chamber under pressure.

1,429,666. AUTOMATIC BELL-RINGING DEVICE. ALBERTO I. WOODRING, Waterloo, Iowa, assignor, by mesne assignments, to National Safety Device Company, Waterloo, Iowa. Filed Mar. 17, 1922. Serial No. 544,643. 10 Claims. (Cl. 116—65.)



8. In combination, a movable controller-element having a cam adjustably fixed thereon, a movable contact-device having a finger-part pivotally mounted thereon for limited movement in one direction, said controller-element while moving in one direction only engaging said cam with said finger-part to cause the latter to change the position of said contact-device, a source of fluid under pressure, a bell-signal, a motor operatively connected to said bell-signal and operable by a fluid under pressure, a valve-chamber having separated receiving and delivery chambers in communication with both said source of fluid under pressure and with said motor, respectively, a resiliently-controlled valve adapted to control the passage of said fluid between the chambers, and a plunger mounted in said receiving chamber, projecting therefrom into contact with said contact-device and movable by the latter to open said valve.

1,429,667. TIRE CARRIER. ALVA W. WOODWARD, Akron, Ohio, assignor, by mesne assignments, to Lawrence Carrier Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 9, 1919. Serial No. 309,592. 29 Claims. (Cl. 224—29.)



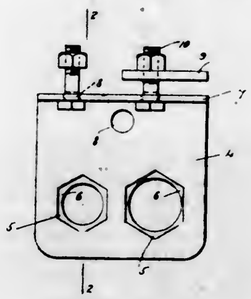
22. The combination, with a motor vehicle, of a tire carrier including means for supporting and carrying a tire thereon, and means including force-multiplying mechanism whereby the tire may be removed from the vehicle and placed upon the ground, the force-multiplying mechanism being composed of rigid elements.

1,429,668. FIRE-ALARM BOX. RUDOLPH ZAKRZEWSKI and KAZIMIEZ SCLEK, Thorpe, W. Va. Filed Oct. 22, 1921. Serial No. 509,491. 2 Claims. (Cl. 177—379.)

1. In an alarm box of the class described, a casing having front and rear vertical walls, the front wall of the casing being provided with a hand-hold, a rotary switch for an alarm circuit mounted upon the inner face of the rear wall of the casing in line with said hand-hold, a pivoted arm-engaging member normally urged to a position to engage and hold the arm of a person inserted within the casing through said hand-hold, means operatively connected to said switch for holding the arm-engaging member in inoperative position, said last named means being operable upon turning of the switch to release said arm-engaging member, means to automatically engage the arm-engaging member and to retain the latter in engagement with the person's arm upon release of said arm-engaging member, said last named means including a pivoted toothed bar and key-operated means for releasing said toothed bar from the arm-engaging member, and key-operated means for swinging the arm-engaging member to inoperative position upon release of the same, said last named means including a member operable by the same key for releasing the toothed bar.



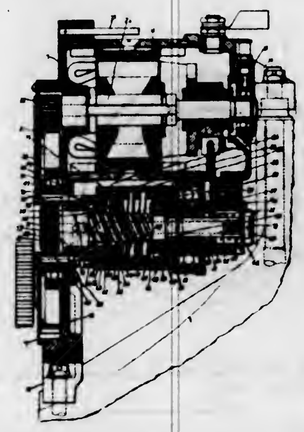
1,429,669. HOLDER FOR SPARK PLUGS. GEORGE O. ZIMMERMAN, Mason City, Ill. Filed Oct. 29, 1921. Serial No. 511,507. 1 Claim. (Cl. 81—119.)



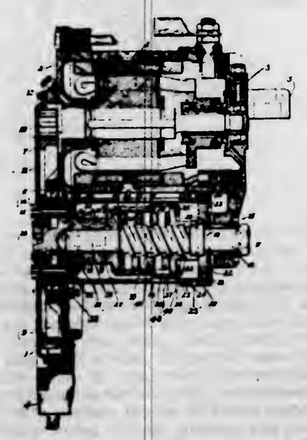
A holder for spark plugs, comprising a flat supporting plate having a plurality of hexagonal sockets of different size for engaging with spark plugs, said plate being arranged at one end of the sockets which are unobstructed and open at that end, and said sockets having inwardly projecting shoulders at their other ends for supporting the plugs in the sockets.

1,429,670. STARTING APPARATUS FOR AIRPLANE ENGINES AND THE LIKE. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Mar. 25, 1918. Serial No. 224,494. 67 Claims. (Cl. 74—7.)

1. In an engine starting unit, in combination, a motor, a drum driven therefrom, a member contained within said drum and operatively connected thereto, a driving member normally contained within said drum and operatively connected to said first mentioned member for longitudinal movement thereof and rotary movement therewith.

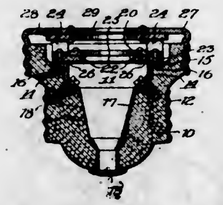


1,429,671. STARTING APPARATUS FOR AIRPLANE ENGINES AND THE LIKE. JOSEPH BIJUR, New York, N. Y., assignor to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Jan. 16, 1919. Serial No. 271,477. 30 Claims. (Cl. 74—7.)



1. In a starter unit for gas engines and the like, in combination, a motor having a shaft, a front head member and a back head member for said motor, a transmission member lodged in said back head against displacement and extending in a direction parallel to said motor and toward said front head, a barrel member and reduction gearing on said front head member for imparting power from said motor to the end of said transmission member through said barrel member and adjacent said back head.

1,429,672. RENEWABLE FUSE PLUG. NELS BOHLIN and SVEN FOANES, Chicago, Ill. Filed Mar. 10, 1921. Serial No. 451,280. 4 Claims. (Cl. 200—130.)



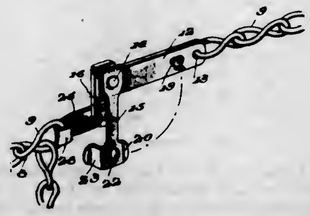
1. A fuse plug having an internal fuse chamber, fuse terminals in said chamber, a plate of insulating material hingedly attached to the body of the plug and adapted, when in closed position, to rest upon the fuse terminals and retain a fuse member in position thereupon, and means for retaining said plate in closed position.

1,429,673. RUBBER HEEL. GUSTAV BORMANN, Hanover, Germany. Filed Mar. 8, 1922. Serial No. 542,192. 2 Claims. (Cl. 36—36.)



1. A device of the kind described comprising in combination, a flanged metal plate having openings adapted to rest with its flange from below against a heel piece, a bulged portion in said plate provided with a hole for the passage of fastening means, a flanged rubber tap adapted to rest on and to surround said plate and a projection on said tap constructed and arranged to fit into said openings of said plate.

1,429,674. ANTISKID CHAIN. ROBERT BRIGGS, Salida, Colo. Filed Jan. 13, 1922. Serial No. 528,918. 5 Claims. (Cl. 24—69.)

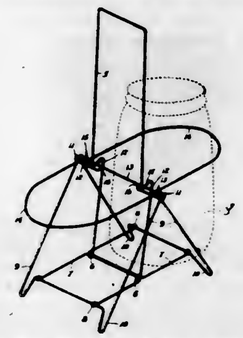


1. A fastener for a skid chain comprising a body, a link connected to one end of the body, a hook pivoted to said link and having a bill adapted for engagement with one of the links of a side chain, said bill being adapted to flatly abut one end of the body whereby to close the bill and hold the link of the chain within the bill.

1,429,675. COLLAPSIBLE FRUIT-JAR HOLDER. ALBERT C. BURLINGAME, Minneapolis, Minn., assignor of one third to D. A. Frerichs and one-third to Anton Larson, both of Minneapolis, Minn. Filed Aug. 22, 1919, Serial No. 319,104. Renewed Feb. 3, 1922. Serial No. 533,980. 3 Claims. (Cl. 53—1.)

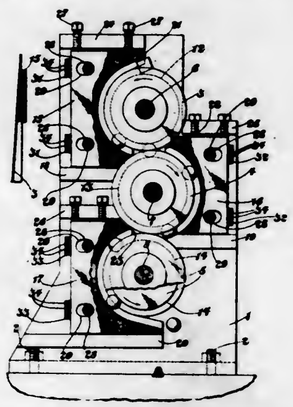
1. A jar holder comprising U-shaped leg members, a pivot rod to which the upper ends of said leg members

are pivoted, a U-shaped carrying bail having intermediate stop shoulders movable to and from engagement with said pivot rod, toggle-acting brace yokes pivoted to the lower



portions of said leg members, and U-shaped jar holding yokes pivotally connected to said pivot rod, and the complete holder being adapted to be folded when said carrying bail is pressed downward.

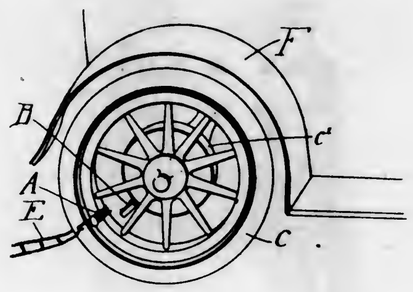
1,429,676. METAL-BALL-ROLLING MACHINE. CLINTON T. COATES, St. Louis, Mo., assignor of one-third to Albert W. Albrecht and one-third to Charles A. Cloud, both of St. Louis, Mo. Filed Mar. 24, 1921. Serial No. 455,059. 8 Claims. (Cl. 80—18.)



8. In a machine of the class described, the combination of a frame, a roller transversely supported in the upper part of the frame and having a groove therein the surface of which is roughened, a die having a segmental face disposed adjacent to one side of the roller, there being a groove in said face deflected downwardly on gradually decreasing radii, a second roller arranged in the frame below said first-named roller and having a smooth surfaced groove therein a die arranged in the frame adjacent to said roller and on the opposite side from said first named die, a third roller mounted below said second named roller, said last named roller being split, and means for driving said two first-named rollers, and a section of said last-named roller.

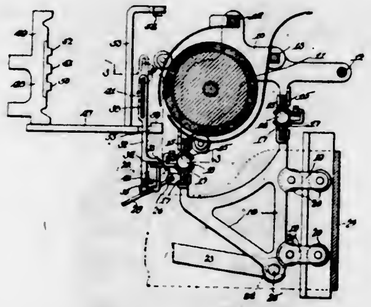
1,429,677. ANTISKID-CHAIN-APPLYING DEVICE. CLIFFORD FLUGEL, Cincinnati, Ohio. Filed Aug. 5, 1921. Serial No. 489,967. 5 Claims. (Cl. 152—14.)

1. In an anti-skid chain applying device the combination of means adapted to be mounted on a wheel and to carry an anti-skid chain about the wheel during the movement of the wheel, and means adapted to apprise the



operator of the substantial positioning of the anti-skid chain upon the wheel.

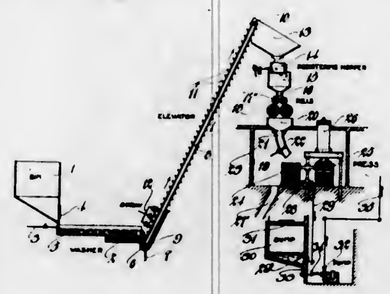
1,429,678. MULTICOLORED-RIBBON SHIFT FOR TYPEWRITERS. MAX GARBELL, Chicago, Ill. Filed Jan. 19, 1920. Serial No. 352,514. 5 Claims. (Cl. 197—154.)



3. In a multi-colored ribbon shift for typewriters having a carriage supporting frame adapted for vertical movement and a platen carriage mounted on said frame, the combination with ribbon holding and guiding means extended in front of the platen and oscillatably mounted on the carriage-supporting frame to swing about an axis parallel to the platen toward and from the latter; of resilient means supported entirely from said frame for yieldingly resisting movement of said ribbon-holding means toward the platen and for automatically restoring said holding means to normal position after a printing operation; and manually operable means mounted on said frame and cooperable with the ribbon-holding means for adjusting the latter vertically relatively to the frame to thereby bring different portions of the ribbon into operative position for printing.

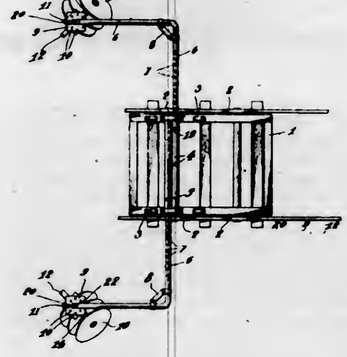
1,429,679. PROCESS FOR TREATING FRUIT JUICES. JOHN G. F. HIEBER, Spokane, Wash. Filed Sept. 13, 1920. Serial No. 409,862. 5 Claims. (Cl. 99—10.)

1. The process of extracting fruit juices which consists in floating the whole fruit to a washer and there cleaning the exterior of the fruit, spraying the washed fruit, crushing and grinding the washed fruit to a pulp, expressing juices from the pulp while in a sterilized atmosphere,



gathering the juice and finally sterilizing the gathered juice.

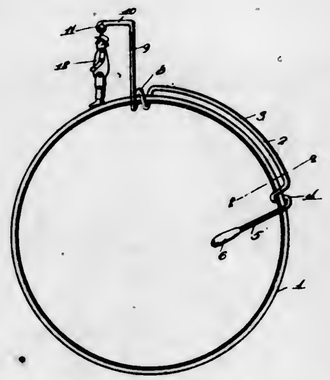
1,429,680. RAILROAD WEEDER AND RESHOULDERING MACHINE. PERRY ADAM KEISTER, Cedar Rapids, Iowa. Filed Nov. 16, 1921. Serial No. 515,689. 2 Claims. (Cl. 37—59.)



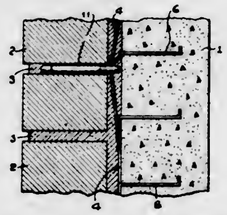
1. A device of the kind described comprising parallel tubular members, angled members adapted to partially telescope into the tubular members, and extending respectively from opposite ends of the tubular members, means for locking the second mentioned members in position, means for supporting a set of discs from the free end of each of the second mentioned members, discs supported by said means, the discs of each set being rotatable on a common axis and also the set rotatable as a whole about an axis at right angles to the axis of each individual disc.

1,429,681. PLAYING HOOP. MARTIN A. MCDONALD, Oakland, Calif. Filed Nov. 6, 1920. Serial No. 422,127. 1 Claim. (Cl. 46—36.)

A playing hoop comprising a circular hoop, an attachment bracket comprising a segmental length of wire conforming to the shape of the hoop and having each end provided with a coil through which the said hoop passes, the uppermost coil being located at the highest portion of the hoop, the lowermost coil being provided with a right angularly extending shank having a handle at its terminal, the upper coil being provided with a vertical support, having a forwardly projecting arm, and a movable figure suspended from the arm and having its lower end engaged with the periphery of the hoop.

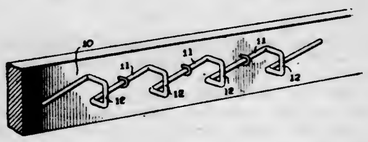


1,429,682. METHOD OF SECURING FACINGS AND THE LIKE TO WALLS AND THE LIKE. RALPH A. MEGENITY, Kansas City, Mo. Filed Jan. 16, 1920. Serial No. 351,937. 1 Claim. (Cl. 72—101.)



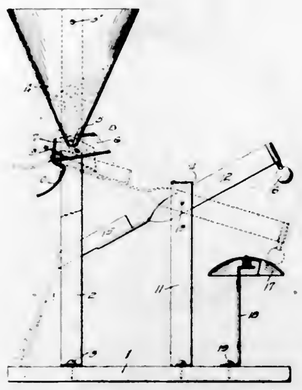
The method of attaching a facing or other member to a cementitious body which comprises embedding a stud in said body so that its face lies exposed along the surface thereof, bending a portion of the length of the stud outwardly from the surface of the body to a sufficient extent to permit the insertion of a tie-piece between said stud and body, introducing the tie-piece, and securing the facing to the tie-piece.

1,429,683. STUD FOR CONCRETE CONSTRUCTION. RALPH A. MEGENITY, Kansas City, Mo. Filed Nov. 1, 1920. Serial No. 420,970. 10 Claims. (Cl. 72—120.)



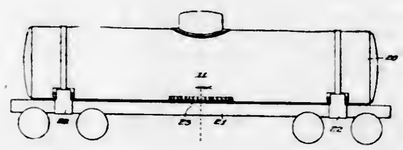
9. An anchor strip of the character described consisting of a plurality of parallel spaced attachment portions lying in one plane, and V-shaped anchor portions connecting adjacent attachment portions and extending laterally to one side of said plane substantially as described.

1,429,684. SAND TOY. CARL C. MULDNER, Jr., Maplewood, Mo. Filed Oct. 11, 1920. Serial No. 416,045. 3 Claims. (Cl. 46—37.)



1. In a toy of the class described comprising a sand hopper, means for supporting said hopper, a dumping receptacle pivotally connected to the lower end of the sand hopper, a tripping arm fixed to said dumping receptacle, a rocker arm, a support for said rocker arm, a sand tray fixed to one end of said rocker arm for engagement with the tripping arm for tilting the dumping receptacle when in its uppermost position, a bell, a support for said bell, and weighted means fixed to the opposite end of the rocker arm for striking and sounding the bell each time the dumping receptacle is tripped.

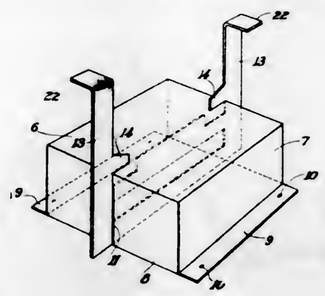
1,429,685. TANK CAR. AXEL M. NELSON, Chicago, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of West Virginia. Filed May 19, 1922. Serial No. 562,145. 10 Claims. (Cl. 105—362.)



1. In a tank car, the combination of a tank-portion, an under frame, means for preventing displacement of said tank-portion on said under frame in a direction lengthwise of the car, cradle means interposed between said tank portion and said under frame and adjustable crosswise of the tank, and means holding said cradle means in adjusted position.

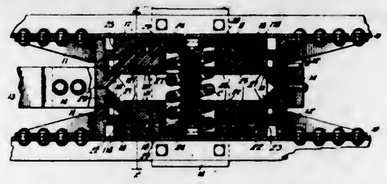
1,429,686. CONCRETE INSERT. CHESTER J. O'BRIEN, Chicago, Ill. Filed June 3, 1920. Serial No. 386,210. 9 Claims. (Cl. 72—105.)

1. A concrete insert comprising a box having opposite slotted walls, and a partition fitting in the slots, with means for the connection of a hanger and having bendable



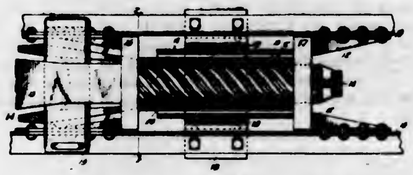
parts engageable over the top of the box for holding the partition in the slots.

1,429,687. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Apr. 26, 1920. Serial No. 376,495. 4 Claims. (Cl. 213—64.)



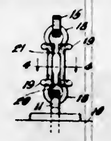
1. In a friction shock absorbing mechanism, the combination with a friction shell having interior friction surfaces and provided with opposed arcuate openings; of combined friction shoes and wedges cooperable with said friction surfaces of the shell and movable lengthwise thereof; a pair of laterally movable friction shoes within the shell, each of said laterally movable shoets including a substantially cylindrical spring cap and separate end shoes proper, each of the latter having an arcuate flange fitting the spring cap and the spring cap and said flanges extending within said openings of the shell, the shoes proper having inclined surfaces cooperable with said wedge-shoes; and spring means interposed between said laterally movable shoes.

1,429,688. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 4, 1920. Serial No. 414,662. 5 Claims. (Cl. 213—64.)



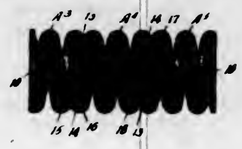
3. As an article of manufacture, a yieldable resistance unit comprising: a plurality of intercalated helical elements of steep pitch, the adjacent surfaces of said elements being in contact throughout the length of the helical elements and the unit being entirely free from any axial coil spacing, all helical elements contracting and expanding simultaneously, similarly and uniformly.

1,429,689. COUPLING-RELEASE MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Feb. 16, 1921. Serial No. 445,291. 3 Claims. (Cl. 213—59.)



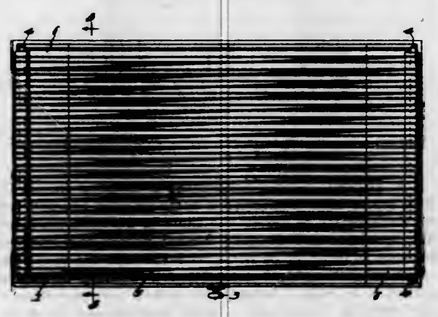
1. In a coupler release mechanism having a lock pin provided with an opening at its upper end and a release lever having an opening therein disposed substantially above the lock pin: a connector comprising two loosely connected loops, each loop being substantially of elongated U form with the ends of each arm thereof hook-shaped, the hook-shaped ends of each loop extending in a plane substantially perpendicular to the plane defined by the arms of the loop, the hook shaped ends of one loop being slidable longitudinally of and on the arms of the other loop.

1,429,690. PROCESS OF MAKING MULTIPLE-PIECE SPRINGS. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Mar. 10, 1921. Serial No. 451,238. 4 Claims. (Cl. 29—173.)



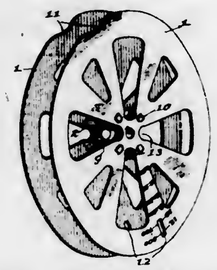
1. The herein described process of making a multiple-piece, helically coiled spring wherein adjacent turns of the pieces are in line contact for approximately 360° which consists in: forming a single piece helically coiled spring consisting of a plurality of continuous, axially spaced turns of the desired pitch and coil diameter and of an uncompressed over-all length greater than that of the desired finished multiple-piece spring; then severing one of the intermediate turns of said coiled initially formed spring; and then nesting the pieces so formed with adjacent turns of the severed pieces in line contact throughout an arc of substantially 360°.

1,429,691. ELECTRICAL FLY-KILLING DEVICE. CARMELO PANDOLFO, Montevideo, Uruguay. Filed Oct. 8, 1920. Serial No. 415,591. 4 Claims. (Cl. 43—112.)



1. An insect electrocuting apparatus comprising a casing, posts extending from the corners of said casing, insulated cross bars arranged between the posts and supported by the latter, conducting wires spaced apart and wound upon said cross bars, and a transformer arranged in the casing and in electrical connection with said wires.

1,429,692. FILM REEL. GERARDO PASSAVANTI, New York, N. Y. Filed Mar. 17, 1920. Serial No. 366,458. 10 Claims. (Cl. 242—70.)



3. A film reel including side flanges and a metallic hub, said hub formed from a single strip of sheet metal, and so shaped as to form a finger groove in the periphery thereof, tabs on said hub, whereby said hub is secured to said flanges, one of said flanges provided with an aperture in substantial alignment with said finger groove.

1,429,693. ELECTRIC CLOCK. LOUIS PILLION, Dijon, France. Filed Aug. 26, 1920. Serial No. 406,224. 1 Claim. (Cl. 58—26.)

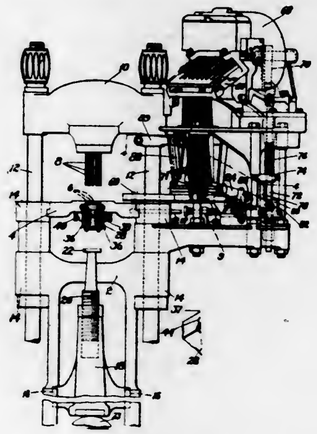


A secondary electric clock in which the dial comprises at least one series of prisms on the faces of which the hours, the quarters of an hour and the minutes are indicated, in combination with a driving mechanism for each prism, a central member which operates the said driving mechanisms and means for operating the central member from a main clock as set forth.

1,429,694. COUNTER AND SHANK FASTENING MACHINE. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 2, 1919. Serial No. 269,284. 36 Claims. (Cl. 1—19.)

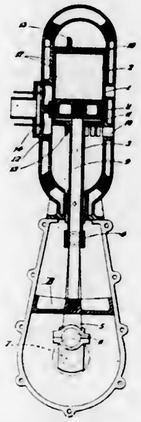
1. In a machine of the class described, the combination of relatively adjustable devices constructed and arranged to support a molded counter adjustably and hold the coun-

ter in predetermined shape, means for positioning a shoe shank in finally assembled relation to the counter, and



mechanism constructed and arranged permanently to fasten the counter and the said shank in assembled relation.

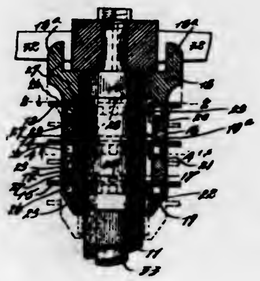
1,429,695. DOUBLE-ACTING INTERNAL-COMBUSTION ENGINE. JAMES BROWN PRICE, Cross Keys, England, assignor of one-half to Luther Silverthorne, Newport, England. Filed Feb. 7, 1920. Serial No. 356,959. 5 Claims. (Cl. 123—62.)



1. A double-acting internal combustion engine of the class described including a main cylinder, a fixed piston therein, a reciprocating double piston having the side wall thereof perforated for transferring a compressed charge from one side of one of the pistons to the opposite side, the said compressed charge being passed into the working chamber of the same portion of the main cylinder where initial compression occurred.

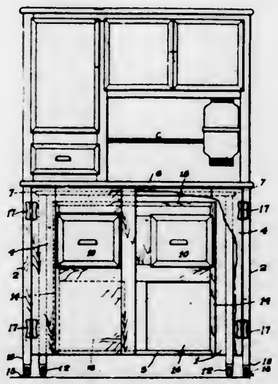
1,429,696. STEERING-WHEEL LOCK. LOUIS RONCA, Jersey City, N. J. Filed Mar. 25, 1922. Serial No. 546,550. 3 Claims. (Cl. 70—53.)

1. In a steering wheel lock, a carrier arranged for securement to the housing of a steering post carrying a wheel, a key carried by the carrier having slots therein, a sleeve slidable longitudinally of the carrier, and disks rotatably mounted on the sleeve arranged to engage the slots in said key, each disk having a slot for the passage of the key, teeth carried by each disk, a spring adjacent each disk



to engage said teeth to cause clicks when the disks are rotated, and a stop carried by each disk to contact with the key, said stops being located in different positions relative to the slots in the disks and arranged to contact with said key in order that a starting point for the movement of the disks to carry out the combination will be provided.

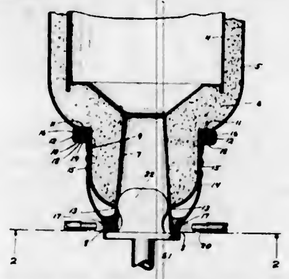
1,429,697. KITCHEN CABINET. MAX M. SCHULTZ, Detroit, Mich. Filed Sept. 26, 1919. Serial No. 326,681. 5 Claims. Cl. 45—16.)



1. A kitchen cabinet comprising a housing having a bench top, a table proportioned to be inserted beneath the top, closures for retaining the table in position, provided with openings, and drawers located within the lines of the table adapted to be withdrawn through the openings.

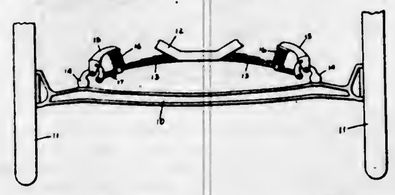
2. A kitchen cabinet comprising a housing having a bench top, a cabinet beneath the bench top, providing a space entirely thereabout, a table proportioned to be inserted within the space under the bench top, and closures for the opening retaining the table in position.

1,429,698. METALLIC RECEPTACLE AND METHOD OF MAKING THE SAME. HERBERT M. SMITH, Great Barrington, Mass., assignor to Stanley Insulating Company, Great Barrington, Mass., a Corporation of Maine. Filed Sept. 30, 1918. Serial No. 256,288. 9 Claims. (Cl. 215—13.)



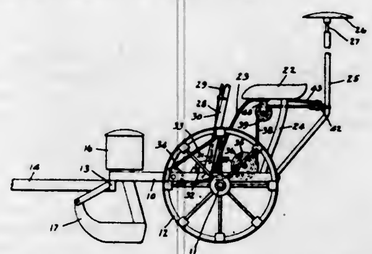
1. A device of the kind described having a neck piece terminating in a rearwardly directed flange, and a tubular member surrounding the neck piece and rigidly joined to the latter at the terminus of its rearwardly directed end.

1,429,699. SHOCK ABSORBER. FREDERICK L. SPRING, Indianapolis, Ind. Filed May 20, 1920. Serial No. 382,884. 10 Claims. (Cl. 267—17.)



7. A shock absorbing construction for two relatively movable members separated by spring means, including a lever pivotally supported at one end and curved so as to extend towards said separating spring means, yielding shock absorbing means between said lever and said separating spring means, auxiliary lever means similarly curved and pivotally connected to said separating spring means and extending towards said shock absorbing lever and supported thereby intermediate the pivoted support of said shock absorbingg lever and the yielding shock absorbing means connection with said lever, and stop means associated with both of said lever means for limiting the relative movement of said lever means to each other.

1,429,700. ATTACHMENT FOR CORN PLANTERS. ALLEN A. STAHL, Sheridan, Ind. Filed Dec. 23, 1921. Serial No. 524,402. 1 Claim. (Cl. 97—83.)



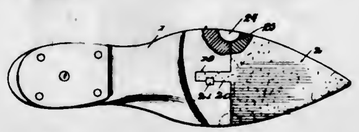
In a machine of the class described, the combination with a supporting frame, an operator's seat mounted upon said frame, a market comprising a guide shaft pivoted to said frame and having a marking member mounted thereon, means for elevating and throwing said marker from one side of the machine to the other, comprising a shaft rotatably mounted transversely of said frame, a winding drum keyed upon said shaft near the center thereof, a second winding drum keyed to the end of said shaft, a lever pivoted to said frame, a cable connecting said lever with said last mentioned drum so that said drum will be rotated by the operation thereof, a second cable connected to said first mentioned drum and guide shaft, and a plurality of pulleys mounted above said frame over which said last mentioned cable is adapted to pass for drawing said arm to elevated position and permitting it to drop to the other side of said frame, substantially as described.

1,429,701. COMBINED SHIPPING AND DISPENSING PACKAGE. JAY Q. STEPHENS, Kansas City, Mo. Original application filed Nov. 28, 1919, Serial No. 340,988. Divided and this application filed Nov. 23, 1920. Serial No. 426,004. 1 Claim. (Cl. 206—56.)



A combined shipping, packing and dispensing device consisting of a tubular container having a set of vertical slits and a cross slit connecting the tops of the vertical slits, thereby constituting tongs, said tongs being bent inwardly and downwardly and being located a sufficient distance above one end of the container to hold the contents against gravity discharge through the bottom of the container.

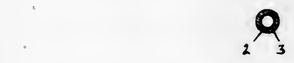
1,429,702. SHOEMAKER'S LAST. HARRY E. TREAT, Rochester, N. Y. Filed July 2, 1920. Serial No. 393,667. 2 Claims. (Cl. 12—133.)



1. A shoemaker's last comprising a body portion and a toe portion each having a blunt end, the blunt end of one of said portions being recessed to form a mortise and the blunt end of the other being provided with an integral tenon fitting the mortise, and a locking element seated within a recess formed partly in one side of the tenon and partly within the confronting wall of the mortise, the mortise and tenon being disposed substantially perpendicularly to the working face of the last and extending longitudinally with relation to their respective

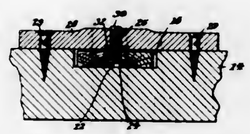
portions, and the locking element being coextensive in height with the tenon and extending from the working face of and heightwise of the last and having its lower end disposed substantially flush with said working face.

1,429,703. FLUXED SOLDER. GEORGE L. VAN ALLEN, Prince Bay, N. Y., assignor to Baker & Company, Inc., a Corporation of New Jersey. Filed Sept. 21, 1918. Serial No. 255,067. 9 Claims. (Cl. 113—110.)



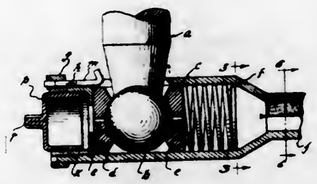
1. As an article of manufacture, a tube of solder having a coating of flux on the walls thereof.

1,429,704. CHICKEN COOP. ISADORE VANDERBECK, Huntsville, Mo. Filed Oct. 29, 1921. Serial No. 511,339. 2 Claims. (Cl. 217—62.)



1. In a coop structure, a central transverse member having an upper closure slat receiving recess, a closure slat longitudinally movable within said recess and provided with an aperture intermediate its ends, a strap secured to said central transverse member and spanning said recess, a locking bolt perpendicular to said strap and movable into and out of said aperture in the closure slat, a head on said bolt and said strap being provided with a countersunk portion surrounding said bolt to receive the head thereof.

1,429,705. DRAG LINK. FRANK P. WILLIAMS, Detroit, Mich. Filed July 5, 1921. Serial No. 482,290. 9 Claims. (Cl. 287—90.)



1. In a drag link, the combination of a member provided at its end with an enlarged hollow portion internally threaded and slotted at the top to receive a ball and arm, and a stamped plug provided with turned-over edges and having one or more slots and a key fitted into the rear portion of the slot of the enlarged portion and engaging through one of the slots in the stamped plug to lock the same in place and serve to cover a portion of the slot.

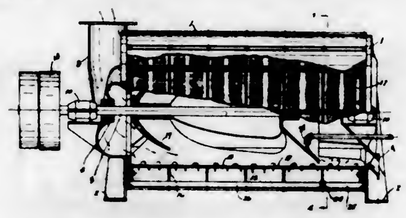
7. A drag link formed of a shell having a cylindrical hollow end portion and a main rod portion of square cross section.

1,429,706. WHEEL-SPOKE TIGHTENER. LAWRENCE J. WILSON, Coleman, Tex. Filed Dec. 6, 1921. Serial No. 520,275. 1 Claim. (Cl. 301—81.)



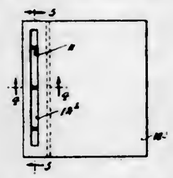
As an article of manufacture, a fastening plate for wheel spokes comprising a body portion having one knife edge and a lateral offset at one end, and adapted to be forced between the converging portions of the spokes of a wheel with the offset engaging the hub sleeve thereof.

1,429,707. PAPER-PULP-SCREEN MACHINE. HAROLD T. BAKER and JOHN D. HASKELL, Dayton, Ohio. Filed May 4, 1921. Serial No. 466,663. 5 Claims. (Cl. 92—35.)



1. In a paper-pulp screen machine, the combination with an outer casing approximately elliptical in cross section, of fiber screening means rotatable within said casing, a stock inlet to the latter, an accepted stock outlet and a tailing discharge outlet from said casing, the wall of the outer casing approaching the screening means at two points to form compression spaces between the screening means and the casing wall for the purpose specified.

1,429,708. LOOSE-LEAF BINDER. LOUIS W. BERGMAN, New York, N. Y. Filed Mar. 29, 1921. Serial No. 456,555. 2 Claims. (Cl. 129—23.)



1. A loose leaf binder, comprising a cover, a member formed with opposite grooves, laterally curved leaf holders having flat bases frictionally engaging said grooves, the free ends of said leaf holder being perpendicular to said bases, an auxiliary cover having a slot to engage said free ends of the leaf holders, and means between said two covers for detachably connecting the latter together.

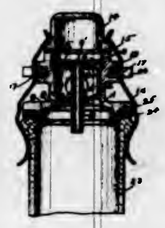
1,429,709. CHIROPRACTIC TABLE. ELVA BOWMAN, Fort Wayne, Ind. Filed June 23, 1921. Serial No. 479,751. 6 Claims. (Cl. 128—72.)

1. In a chiropractic table, a frame including a foot and a head pedestal spaced apart; a pair of abdominal supports in the space between the pedestals and having

hinged connection respectively in said pedestals; a stirrup in each of said pedestals; a prop for each abdominal support having hinged connection in the corresponding stirrup; a spring resisted toggle mechanism for sustaining each of said props in normal position; and a locking means adapted to engage each of said props and hold the same in normal position.

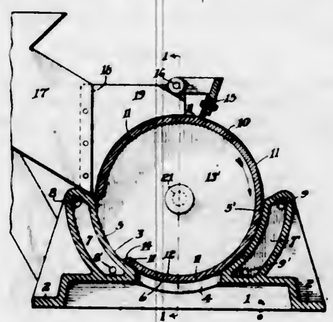


1,429,710. SAMPLE TAKER. BERTIE BRAYSHAW, Fort Atkinson, Wis., assignor, by mesne assignments, to The General Tool & Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 14, 1920. Serial No. 388,975. 4 Claims. (Cl. 73—21.)



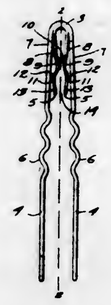
1. A sample taker comprising a hollow body portion having a tube extending through the bottom of said body portion, a disc carried by the body portion and arranged to bear on the end of the tube, said disc having a perforation arranged to register with the tube for admitting fluid therein and having other perforations for admitting fluid into the body portion, an outlet, a cap covering said body portion and being provided with an inlet, and spring means for securing said cap to said body portion.

1,429,711. COAL FEED FOR GAS PRODUCERS OR FURNACES. OAKLEY T. BROWN, Audubon, N. J., assignor, by mesne assignments, to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed May 14, 1918. Serial No. 234,400. 3 Claims. (Cl. 214—35.)



1. In a feeder for gas producers, a feeding drum, supports therefor, a casing fitting a part of the drum surface and having a discharge opening, and walls forming with the casing a water cooling chamber for the casing about the opening and between the drum and the producer.

1,429,712. HAIRPIN. ROBERT S. BUSBY, Jacksonville, Fla. Filed Oct. 18, 1920. Serial No. 417,654. 3 Claims. (Cl. 132—32.)



1. A hair pin comprising a head, a pair of main projections in spaced apart relation with comparatively straight portions leading therefrom and a pair of auxiliary projections disposed between the said straight portions of said main projections, said auxiliary projections leading from said head with portions next adjacent thereto in converging relation for a part of their length, then bulged inwardly toward the longitudinal axis of the pin with the crowns of the bulges confronting one another and providing a constricted passage way, then bulged outwardly toward the said straight portions of said main projections providing constricted passage ways therebetween, and having end portions in converging spaced relation.

1,429,713. COMPRESSED-AIR-FILTERING APPARATUS. PERRY H. CAZIER and WILLIAM H. HECKER, Nashville, Mich. Filed Sept. 17, 1921. Serial No. 501,333. 5 Claims. (Cl. 183—39.)

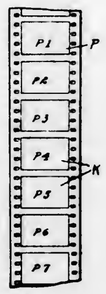


1. An apparatus of the class described, comprising a vertically positioned container, absorbent material for collecting moisture and lubricant from compressed air passed therethrough, means for carrying compressed air to the lower end of the container, means to close said air carrying means against the passage of air, said last named means being normally open, a normally open outlet to the container at its upper end, means to close said outlet, a normally closed outlet to the lower end of the container, means for opening said outlet, and a normally closed conduit for carrying compressed air into the upper end of the container combined with means for opening said conduit substantially as and for the purposes described.

1,429,714. PROCESS OF MAKING SUBSTITUTED AMINES. CHARLES B. CHATFIELD, Orange, N. J. Filed Mar. 5, 1919. Serial No. 280,809. 3 Claims. (Cl. 260—128.)

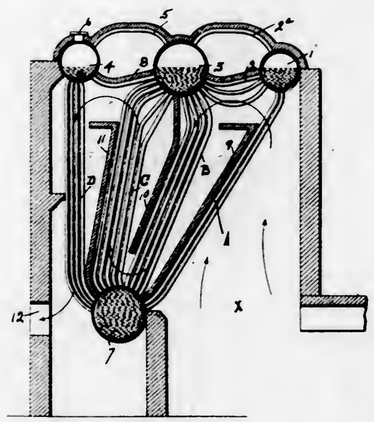
1. In the process of making substituted amines, the step which consists in providing a batch of the amine and caustic alkali and causing a bromide of the substituting radical to gradually react with the amine at atmospheric pressure, the caustic alkali acting to neutralize the hydrohalogen substantially as formed.

1,429,715. PHOTOGRAPHY. EDWIN W. CLARK, Chicago, Ill. Filed May 26, 1920. Serial No. 384,416. 4 Claims. (Cl. 88—19.5.)



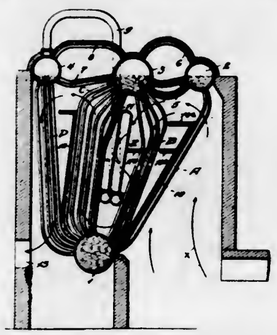
1. A moving-picture film of standard size, standard picture spacing, and standard arrangement of pictures, having pictures thereon of substantially standard area; said pictures having been taken closer to the plane of principal action and having greater width of said plane, than pictures taken of the same subject in the standard way and using a lens of the same focal length.

1,429,716. WATER-TUBE BOILER. ALFRED COTTON, St. Louis, Mo., assignor to Heine Boiler Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 16, 1920. Serial No. 366,286. 4 Claims. (Cl. 122—302.)



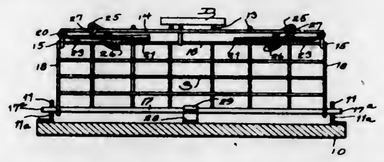
1. A water tube boiler, comprising at least two elevated transverse steam-and-water drums, water circulators connecting said drums together, a transverse mud drum, a radiant heat bank of upflow tubes leading upwardly from said mud drum to one of said elevated drums and constituting the sole source of water supply to said elevated drum, a separate and distinct convected heat bank of upflow tubes spaced away from said radiant heat bank and connected to the other elevated drum for causing the remainder of the water rising from said mud drum to circulate upwardly to said other elevated drum, a baffle arranged between said radiant heat bank and said convected heat bank, a cooperating baffle for causing the fire gases to flow downwardly among the tubes of the convected heat bank, and downcomer tubes leading from one of said elevated drums directly to said mud drum.

1,429,717. SUPERHEATER BOILER. ALFRED COTTON, St. Louis, Mo., assignor to Heine Boiler Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 12, 1920. Serial No. 373,248. 4 Claims. (Cl. 122—478.)



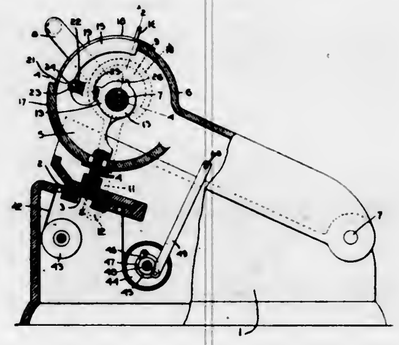
1. A water tube boiler, comprising at least two elevated transverse steam-and-water drums, water circulators connecting said drums together, a transverse mud drum, a radiant heat bank of upflow tubes leading upwardly from said mud drum to one of said elevated drums and constituting the sole source of water supply to said elevated drum, a separate and distinct convected heat bank of upflow tubes spaced away from said radiant heat bank and connected to the other elevated drum for causing the remainder of the water rising from said mud drum to circulate upwardly to said other elevated drum, a baffle arranged between said radiant heat bank and said convected heat bank, a co-operating baffle for causing the fire gases to flow downwardly among the tubes of the convected heat bank, downcomer tubes leading from one of said elevated drums directly to said mud drum, and a superheater arranged so that it will be heated by gases flowing through the boiler.

1,429,718. POULTRY CRATE. EDWARD COX, Bloomfield, Iowa, assignor of one-fourth to Edward N. Bezzenberger, Bloomfield, Iowa. Filed Jan. 29, 1921. Serial No. 441,004. 2 Claims. (Cl. 220—7.)



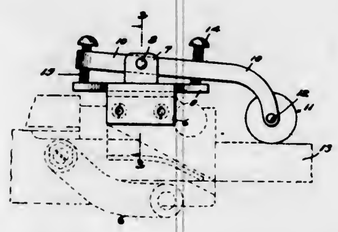
1. In a collapsible poultry crate, a base, transverse guides secured to said base adjacent the ends thereof and having pairs of slots formed therein substantially paralleling said base, a top member, side members pivotally connected with said top member and each embodying upper and lower strands, said lower strands being of greater length than said side members and having their ends slidably mounted in the slots of said guide members, end members pivotally connected to the top member intermediate said side members and common means engaging the lower strands of said side members when the crate is in extended position to hold the lower ends of the side members against shifting and engaging the upper strands of said side members when the crate is collapsed to hold the crate in collapsed position.

1,429,719. PERFORATING MACHINE. ALFRED L. DAY, Brookline, Mass., assignor to Day Perforator Company, a Voluntary Association of Massachusetts. Filed May 5, 1920. Serial No. 379,162. 12 Claims. (Cl. 101—26.)



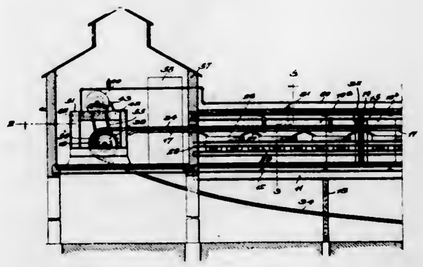
1. In a perforating machine, the combination with a plurality of punches, of a settable matrix member for selectively operating the punches, means to give said matrix member its punch-actuating movement, and means to restore automatically the matrix member to zero position after each punch-actuating movement thereof.

1,429,720. ATTACHMENT FOR MONOTYPE MACHINES FOR MAKING BOARDER RULES AND DOTTED RULES. ALFRED C. DE NISSON and FRANK D. CHRISTIE, Seattle, Wash. Filed July 30, 1919. Serial No. 314,359. 3 Claims. (Cl. 199—1.)



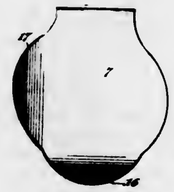
1. An attachment for monotype machines comprising in combination with a monotype mold, of a bracket supported adjacent to said mold, an arm pivoted to said bracket, adjustable means carried by said arm at each side of the arm adapted for engagement with said bracket to hold the arm in adjusted positions and a roller journalled in the outer end of said arm and having a design relief on the periphery thereof and adapted for engagement with a bar of type metal issued from said mold.

1,429,721. WAX-SWEATING APPARATUS. CARL STREETER DICKENS, THOMAS EDWIN SCHLEY, and JOHN WHARTON NEWTON, Beaumont, Tex., assignors to Magnolia Petroleum Company, Dallas, Tex., a Voluntary Joint-Stock Association of Texas. Filed Nov. 13, 1920. Serial No. 423,869. 5 Claims. (Cl. 196—24.)



1. An apparatus for sweating paraffin and the like, comprising an elongated closed sweating chamber having a plurality of compartments situated end to end in a substantially horizontal plane, partitions in said chamber separating said compartments, an endless foraminous belt having a substantially horizontal path of travel through said compartment, means for heating each of said compartments to varying predetermined degrees, oil receiving receptacles in said compartments beneath said belt, a supply chamber at one end of said sweating chamber, means in said supply chamber for continuously depositing wax upon said belt, and means for moving said belt through its path of travel.

1,429,722. DEFLECTOR SHIELD. MAURICE H. DONAHUE, Columbus, Ohio. Filed May 10, 1922. Serial No. 559,813. 5 Claims. (Cl. 240—45.6.)

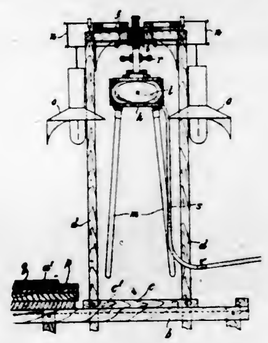


1. A shield for automobile headlights adapted to be positioned in front of a headlight, the front portion thereof being curved forwardly and upwardly with respect to the rear portion and a side thereof being curved upwardly and outwardly.

1,429,723. PHOTOGRAPHIC-PRINTING APPARATUS. HENRY ROBERT EASON, London, England. Filed Dec. 28, 1921. Serial No. 525,458. 7 Claims. (Cl. 95—76.)

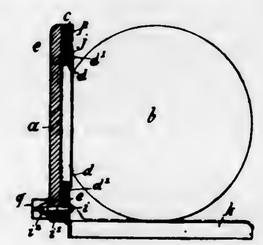
5. Photographic printing apparatus including a table for a sensitized surface and a plurality of photographic plates, a carriage adapted to be moved along said table into position over any of said plates, and pressure-applying

means including an auxiliary carriage supported on said first-mentioned carriage, depending legs supported by such



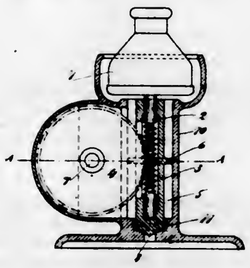
auxiliary carriage and means for lowering said depending legs to exert pressure on any of said plates.

1,429,724. COVER FOR THE SEATS OF SANITARY APPARATUS. EUGÈNE LÉON ECKERLEIN, Paris, France. Filed Aug. 29, 1921. Serial No. 496,236. 5 Claims. (Cl. 4—18.)



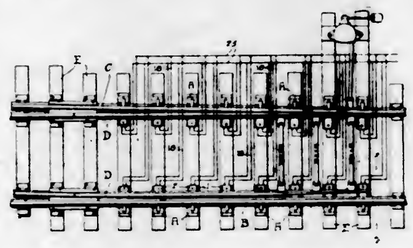
1. In a cover for the seat of a sanitary apparatus the combination of a container comprising two circular concentric frames, adapted to contain a block of sheets of paper or the like which are designed to be turned down successively over the seat of which they cover the entire surface and to be torn off after use.

1,429,725. SELF-CENTERING CENTRIFUGE. ERNST ELIS FRIDOLF FAGERSTRÖM, Skarsatra, near Stockholm, Sweden. Filed Oct. 16, 1919. Serial No. 331,254. 3 Claims. (Cl. 64—48.)



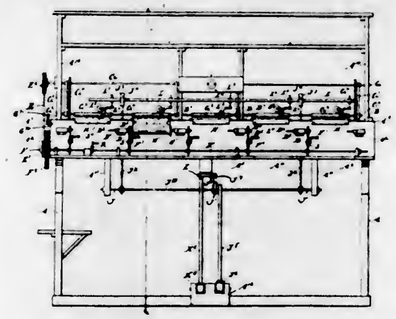
2. In a device of the character described, the combination with a centrifugal drum and a chambered standard, of a sleeve arranged within the chamber of the standard, said sleeve being cut out at one side and having a peripheral flange bearing against the inner wall of the standard, the lower end of the sleeve being seated in a recess in the standard, said recess having a shape corresponding to the shape of the lower end of the sleeve, the bearing surface of the recess having such an inclination relatively to the longitudinal axis of the spindle that the sleeve will always tend to slide upon the bearing surface and regain its centered position, the said sleeve being also adapted to have a lateral movement in said recess, a worm spindle rotatably mounted at both its ends in the sleeve and being movable longitudinally as well as laterally with the sleeve, and a vertically-arranged worm wheel mounted upon an axis arranged in a horizontal plane coinciding with the flange on the sleeve, said worm wheel projecting through an opening in the standard and the opening formed in the sleeve.

1,429,726. ELECTRIC HEATER FOR RAILWAY SWITCHES. JOSEPH B. FEDER, East Orange, N. J. Filed Dec. 8, 1920. Serial No. 429,068. 6 Claims. (Cl. 246—428.)



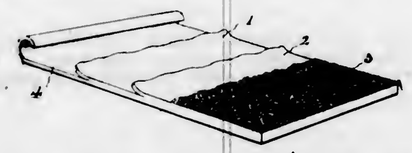
1. A slide plate for railway track switches including a body portion to support a switch point, and electrical heating means removably mounted in said body portion.

1,429,727. APPARATUS FOR TREATING MUSIC SHEETS. NUNES CLARENCE FERRIS, Brooklyn, N. Y., assignor to Elizabeth F. Boyle, Brooklyn, N. Y. Filed July 17, 1919. Serial No. 311,469. 6 Claims. (Cl. 33—23.)



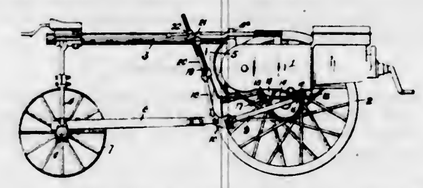
1. In an apparatus of the character set forth, a table, means for supporting a plurality of music sheets in position for presentation thereto in the same horizontal plane, spooling mechanism for such sheets, means for guiding such sheets separately and independently of each other across said table from said supporting means to said spooling mechanism, a series of marking wheels above said table, and means for moving said printing wheels simultaneously into and out of contact with such sheets in the traverse of the latter.

1,429,728. BITUMINOUS SHEET ROOFING AND WEATHERPROOFING MATERIAL. CHARLES N. FORREST, Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed July 12, 1919. Serial No. 310,432. 4 Claims. (Cl. 154—51.)



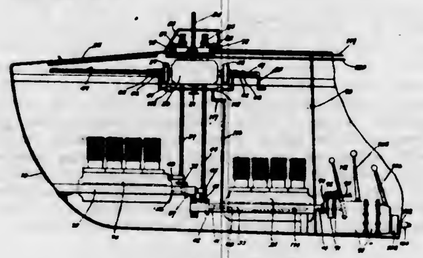
1. A flexible bituminous sheet weatherproofing material comprising a fabric base saturated or impregnated with a bituminous medium; faced, on its weather side, with grit secured thereto with bituminous cement; and backed, on its inner side, with a water insoluble and repellent protective and fixative bituminous coating, sufficiently hard and high melting not to stick to a similar sheet under shipping conditions, but soft enough to adhere spontaneously to the facing of a subjacent similar sheet under the natural influence and conditions of use when exposed to the hot sun.

1,429,729. ADJUSTABLE DRAFT MEANS. FRANK H. GERDSMAN, Findlay, Ohio. Filed Dec. 11, 1920. Serial No. 429,851. 4 Claims. (Cl. 280—33.2.)



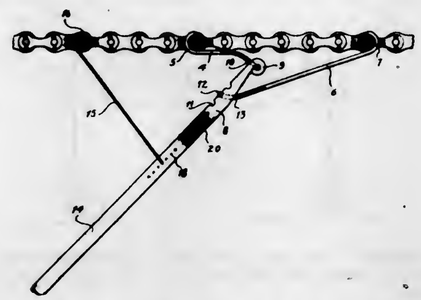
1. In combination, a tractor, an arcuate member secured thereto for longitudinal arcuate adjustment transverse to the tractor, means operable to adjust said member, and a draft member pivotally trailing from the adjustable member and having its line of draft shifted by an adjustment of the first member.

1,429,730. AEROPLANE. FRANK GILL, Chicago, Ill. Filed Dec. 13, 1921. Serial No. 521,990. 4 Claims. (Cl. 244—25.)



1. In an aeroplane, the combination with motor driven wheels, of a frame for maintaining the wheels, a fuselage mounted on said frame, sustaining planes engaged with the fuselage, primary and secondary propellers, and means for disengaging one of said propellers without disengaging the other, and other means whereby both propellers may be disengaged without stopping the engines.

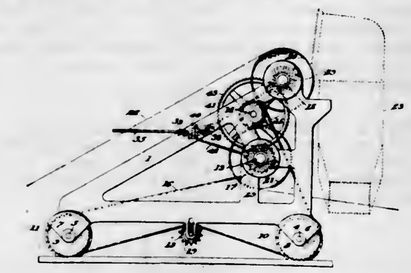
1,429,731. CHAIN TOOL. ALEXANDER H. GRANT, Chicago, Ill. Filed June 11, 1920. Serial No. 388,304. 4 Claims. (Cl. 254—78.)



1. In a chain tool, the combination of a pair of members provided with opposed seats for engaging links of a chain respectively, a lever between said members, adapted to force said seats together, a hook to engage a link of this chain for locking the lever to secure the members in operative position and an adjustable connection between the hook and the lever.

2. A chain tool comprising a pair of members having opposed seats therein to engage links of a chain, a lever, a pivotal connection between one of the members and the lever, and an adjustable pivotal connection between the other member and the lever comprising a slot through which the lever extends and which permits disengagement of the pivotal connection and the longitudinal shift of the lever through the slot.

1,429,732. BELT-CONVEYER TRIPPER. OSCAR B. HANSON, Tiffin, Ohio. Filed Apr. 19, 1919. Serial No. 291,251. 3 Claims. (Cl. 188—186.)

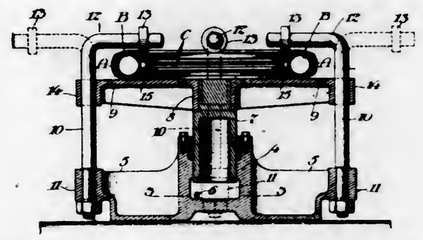


1. In a belt conveyer tripper, a carriage having side frames, shafts fastened in said side frames stationarily, pulleys mounted idle on said shafts and adapted to be driven in opposite directions, a friction clutch for each pulley also idling on the same shafts and adapted to be shifted to engage one or the other of the pulleys, wheels on which said carriage is mounted, a pinion connected with the clutch mechanism of each pulley, an intermediate gear wheel meshing with said pinions, and means to transmit motion from the gear wheel to the carriage wheels to cause the tripper to run back and forth as desired in accordance with which pulley is clutched for the time being.

1,429,733. TIRE-RIMMING APPARATUS. ARCHER H. HARRIS, Barberton, Ohio, assignor of one-half to Evan A. Armstrong, Akron, Ohio. Filed Jan. 18, 1921. Serial No. 438,082. 8 Claims. (Cl. 18—2.)

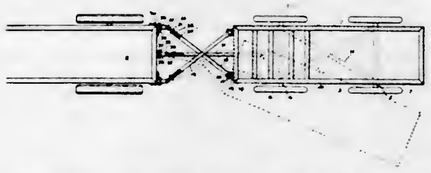
1. In a tire-rimming apparatus, the combination with a tire and bull-ring supporting element and means for

actuating the same, of a series of spaced-apart abutment members for the bull-ring, said members being supported for horizontal rotation on vertical axes outwardly of the



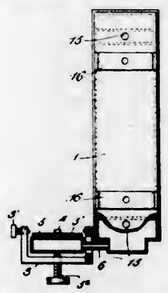
periphery of the tire on said element and being movable over or away from the path of the said element, as desired.

1,429,734. TRAILER. CHARLES S. HOFFMAN, San Francisco, Calif. Filed Oct. 16, 1920. Serial No. 417,331. 3 Claims. (Cl. 280—335.)



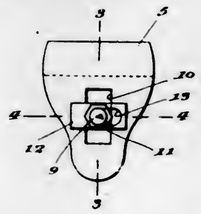
1. A trailer comprising a body, front and rear wheels supporting the body and mounted so as to be turned to right and left, means of connection between said wheels for turning the rear wheels in opposite direction from the front wheels, a member arranged to turn with the front wheels, cross coupling rods pivoted to said member, and means for connecting the last-named rods with the vehicle, and compression springs operatively associated with the last-named rods and arranged to compress under longitudinal strains transmitted in either direction to said last-named rods.

1,429,735. ELECTRIC WATER HEATER. MOSES W. HORNSBY, New York, N. Y., assignor to Southern Electrolyte Battery Company, Inc., New Orleans, La., a Corporation of Louisiana. Filed Feb. 19, 1921. Serial No. 446,353. 1 Claim. (Cl. 219—39.)



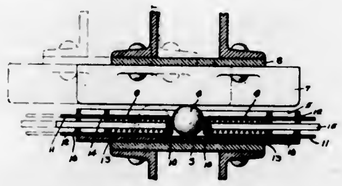
An electric water heater embodying an electrode included in a normally opened circuit, and comprising a plurality of carbon elements of elongated contour, and a plurality of insulating members arranged between the carbon element and spacing the latter, said carbon elements having alined openings adjacent the ends thereof, said insulating members having longitudinal slots defining channels between the carbon elements, said channels communicating through said openings alternately from the bottom and top of the electrode, a protective covering for said electrode, an elongated receptacle at one side thereof having a water inlet and water outlet, said water admitted to the electrode completing the circuit when bridging the space between the carbon elements.

1,429,736. DETACHABLE-RIM CLIP. WILLIAM C. HURST and PATRICK J. DWYER, New York, N. Y. Filed Mar. 5, 1921. Serial No. 449,616. 4 Claims. (Cl. 301—20.)



1. The combination of a demountable tire rim clamp and its securing bolt, said clamp having a slot, a plate seating against the outer face of the clamp and extending across the slot, through which slot and plate the bolt passes, the plate being rotatable on the bolt, and a nut screwed on the bolt for clamping the plate to the clamp face, said nut being separate from the plate and the latter being dimensioned to pass through the slot when turned into alinement therewith.

1,429,737. AUTOMATIC BALL-BEARING SIDE BEARING FOR RAILROAD TRUCKS. GEORGE M. HYNDES, Dallas, Tex. Filed Dec. 22, 1920. Serial No. 432,491. 2 Claims. (Cl. 64—63.)

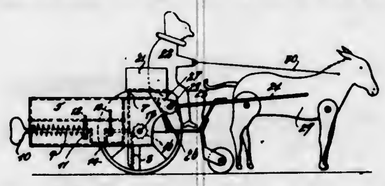


1. A side bearing for trucks, which comprises a shallow receptacle disposed on the car truck, a single ball disposed within said receptacle to receive the weight of the car, longitudinally movable abutment plates disposed across the receptacle on opposite sides of the ball, spring means engaging each of said plates to hold them in the normal forward position engaging the ball, the receptacle having a width considerably greater than the diameter of the ball to permit lateral movement thereof with respect to the receptacle, the ball being adapted when bearing the weight of the car to move substantially the entire length and width of the receptacle, if necessary, whereby rolling friction is produced between the car and the ball when the car moves with relation to the truck.

1,429,738. MECHANICAL TOY. JOSEPH V. IRENIUS, Newark, N. J., assignor to Ferdinand Strauss, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 18, 1919. Serial No. 345,686. Renewed June 8, 1922. Serial No. 566,898. 7 Claims. (Cl. 46—45.)

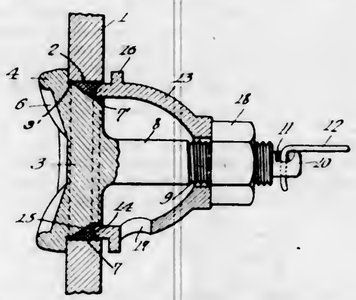
1. A toy comprising a body member, a seat pivotally connected thereto, wheels carried by the body member, a

motor mechanism, a disk operated by the motor mechanism, a portion of said disk being of greater radius than the remainder of the disk, teeth carried by that portion



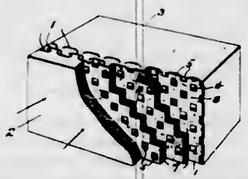
of the disk having the greater radius, a shaft for said wheels, gears carried by said shaft to mesh with the teeth on said disk, said seat being arranged to rest by gravity upon the periphery of said disk.

1,429,739. HANDHOLE PLATE. WILLIAM CARL JACOBS, Clinton, Iowa. Filed July 22, 1918. Serial No. 246,153. 1 Claim. (Cl. 220—25.)



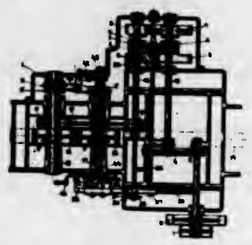
A hand-hole plate comprising in combination with a boiler plate, a disk having a circumferential shoulder and having beveled edges formed adjacent to the shoulder, the beveled edges terminating in relatively straight portions, both of said straight portions being spaced from the boiler plate, a stem having a threaded extremity formed integral with the disk, a cap having an integral circumferential flange associated with the disk, said cap having an inclined inner edge, packing material disposed at one end of the cap and adapted to be engaged by the inclined edge thereof, said packing material being positioned on the beveled edge of the disk, a nut operating on the threaded portion of the stem for forcing the inclined edge of the cap into engagement with the packing to force the packing into one of the relatively straight portions formed adjacent to the beveled edge of the disk, and said cap having a drain opening.

1,429,740. DAMPPROOFING CONCRETE BODY. FREDERICK G. JORDAN, Cement, Wash. Filed Feb. 28, 1921. Serial No. 448,518. 8 Claims. (Cl. 72—127.)



1. A damp-proof concrete body, comprising a plurality of perforated sheets embedded in such body, with a bonding strata of cementitous material therebetween, said sheets having alternate openings for said strata, and solid portions of greater area than said openings, said sheets having such relative arrangement as to locate the openings of one sheet centrally opposite the solid portions of the adjacent sheet.

1,429,741. METAL PLANER. KARL TORSTEN FREDRIK JUNG, Kalmar, Sweden. Filed Nov. 8, 1918. Serial No. 261,698. 11 Claims. (Cl. 90—35.)



1. In a planer, the combination with a table and the planing tool, one of which is movable, of a constantly rotating driving shaft, another shaft, means for changing the constant rotation of said driving shaft to a variable rotation of said other shaft, and means to impart from said other shaft and to the movable member of the planer a substantially uniform motion during the greater part of the cutting stroke and a retarding motion during a relatively small part of the cutting stroke at the end thereof.

1,429,742. RADIATOR SUPPORT. AUGUST KEHM, Chicago, Ill. Filed Jan. 13, 1919. Serial No. 270,856. 2 Claims. (Cl. 211—30.)



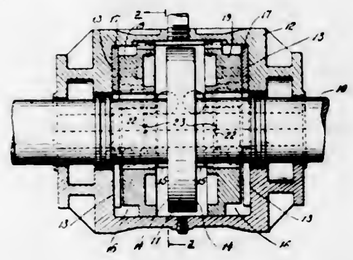
1. In a support for wall radiators comprising a plurality of parallel sections arranged in a common plane but at different levels, the combination with an upright bearing plate, of a saddle block projecting laterally from the bearing plate adjacent its lower end for supporting engagement with the underside of one radiator section, a bracket projecting laterally from the bearing plate intermediate its ends, means carried by the bracket constructed for guiding engagement with the upper edge of the last mentioned radiator section comprising a downwardly extending arm having a forked extremity, and means carried by the bracket for supporting engagement with the lower edge of the next higher radiator section and a hooked member carried by the bearing plate adjacent its upper end and engageable with the upper edge of the highest radiator section.

1,429,743. WOODEN CIGARETTE CASE. WILHELM KIMBEL, Berlin, Germany. Filed Oct. 12, 1920. Serial No. 416,592. 3 Claims. (Cl. 206—41.)



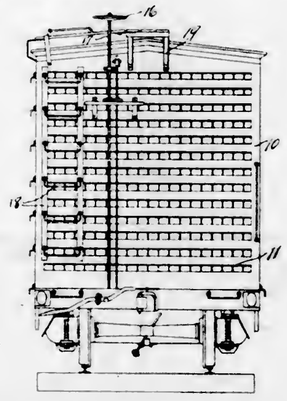
1. In a device of the kind described in combination, a hollow body, a lid and a hinge integral with said body and said lid, the portions of the said hinge connected with said body being limited by a curved surface of a radius differing from that of the curved surface delimiting the portions of said hinge which are integral with said lid.

1,429,744. BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Original application filed Mar. 25, 1916, Serial No. 86,535. Divided and this application filed Mar. 14, 1918. Serial No. 222,337. 40 Claims. (Cl. 64—25.)



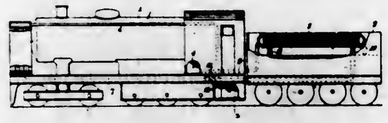
1. A bearing comprising a pressure-distributing member tiltably-mounted on a single axis, said member being divisible to permit radial removal of parts thereof, and bearing segments mounted on said pressure-distributing member.

1,429,745. RAILWAY CAR. GEORGE E. KNEPPER, Altoona, Pa. Filed Feb. 3, 1921. Serial No. 442,320. 3 Claims. (Cl. 105—410.)



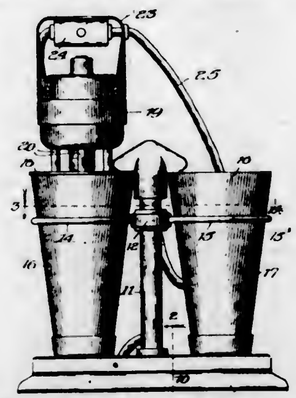
1. A stiffening member for the outside surface of car walls consisting of a metallic sheet having a plurality of reinforcing flanges punched out therefrom leaving openings in the sheet where the flanges have been displaced.

1,429,746. LOCOMOTIVE. FREDRIK LJUNGSTRÖM, Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden, a Corporation. Filed Mar. 27, 1919. Serial No. 285,615. 1 Claim. (Cl. 105—38.)



In a locomotive, the combination with a steam actuated driving turbine and a steam actuated braking device, of an air cooled condenser of such capacity that at least so much steam will be condensed in it as is requisite to enable the water of condensation to absorb the heat of the exhaust steam from the braking device, means for conducting the exhaust steam from the turbine to said condenser, a second condenser, means for conveying the water of condensation from the air cooled condenser to the second condenser, means for discharging said water from the second condenser, a pipe for conveying exhaust steam from the braking device to the second condenser, whereby the exhaust braking steam may be condensed by the water of condensation from the turbine, and means for discharging the water resulting from the condensation of the braking steam from the second condenser.

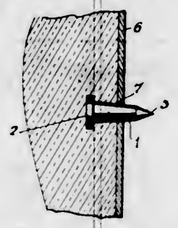
1,429,747. DRINK MIXER. WILLARD LYNGAR, Chicago, Ill., assignor to Lyngar Specialty Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 8, 1921. Serial No. 499,196. 2 Claims. (Cl. 259—135.)



1. A drink mixer comprising a base, a standard secured thereto, a plurality of holders carried by said standard, two similar containers removably held within the holders and resting upon the base, a cover adapted to be moved bodily and placed upon any one of said containers and closely fitting the tops of said containers, a motor supported by said cover, an agitator driven by the motor and extending into the container, and a flexible connection for said motor, so that the same parts of the cover are always enclosed within the container when placed thereon.

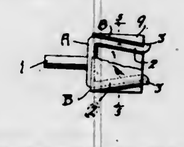
1,429,748. FACING PIN FOR ARTIFICIAL TEETH. FREDERICK MAECLEN, Rahway, and GEORGE L. VAN ALLEN, Newark, N. J., assignors to Baker & Company, Inc., a Corporation of New Jersey. Filed Nov. 30, 1920. Serial No. 427,343. 2 Claims. (Cl. 32—9.)

1. An artificial tooth including a facing, and a pin embedded in said facing and having one end projecting outwardly from the lingual face thereof, all sides of the said projecting portion of the pin converging from the point where the pin emerges from the facing toward its outer end, so as to constantly and automatically main-



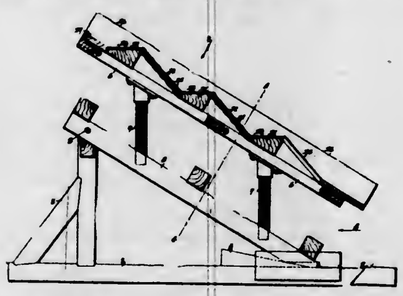
tain a tight engagement with the walls of an opening in a backing plate as the pin is forced therethrough to prevent flux or solder applied to the backing plate from leaking through said opening around said pin into engagement with the tooth facing.

1,429,749. LOCK FOR ORTHODONTIC APPLIANCES. FREDERICK MAEULEN, Rahway, and GEORGE L. VAN ALLEN, Newark, N. J., assignors to Baker & Company, Inc., a Corporation of New Jersey. Filed Oct. 8, 1921. Serial No. 506,284. 5 Claims. (Cl. 32—19.)



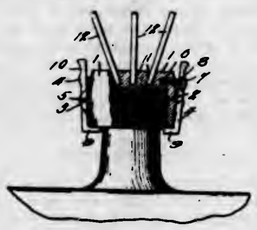
1. In an orthodontic appliance, the combination of an anchor-band having a socket member thereon arranged at substantially right angles to an axial plane of said anchorband, and an arch bow having a resilient hooked projection at the end thereof to be inserted into said socket member, said resilient projection engaging the walls of said socket member to lock said arch-bow to said socket member.

1,429,750. DEVICE FOR SAVING GOLD AND OTHER PRECIOUS METALS. SAMUEL J. MARSH, Queanel, British Columbia, Canada. Filed July 1, 1920. Serial No. 393,366. 5 Claims. (Cl. 83—67.)



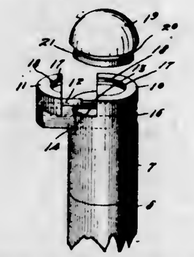
1. Means for obtaining precious metals from ore pulp, said means comprising a launder having relatively deep blanket covered riffles across its width, the general grade of the riffled portions of the launder being not less than twenty degrees from the horisontal, and means for spreading the finely divided pulp with water across the width of the launder at the upper end.

1,429,751. RADIATOR CAP. EDWARD E. MAZZULLO, Washington, D. C. Filed Dec. 27, 1920. Serial No. 433,503. 2 Claims. (Cl. 220—55.)



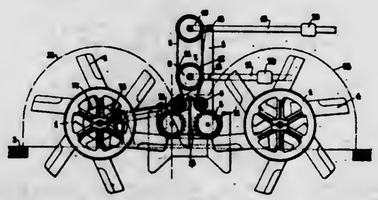
1. In a radiator cap, the combination of an aluminum metal cap having the annular sides thereof removably engageable over a radiator nozzle, releasable locking arms pivotally mounted on the metal cap and having inturned ends, resilient means normally holding the locking arms in locking position to engage a flange or ring on the radiator nozzle, the cap having a thick resilient disk seated within the cap and adapted to engage and seal the mouth of the radiator cap, said disk being of considerable thickness, for the purposes described.

1,429,752. BILLIARD CUE, FERRULE, AND TIP. JOHN J. MEDVEC, Minneapolis, Minn. Filed May 27, 1921. Serial No. 473,204. 2 Claims. (Cl. 46—9.)



1. The combination with a billiard cue, of a ferrule applied thereto and having a fixed jaw and a co-operating movable jaw, said movable jaw having a guide bar forming a radial extension thereof and slidably mounted in a radial seat in the ferrule, a feed screw mounted in the ferrule and having screw threaded engagement with the guide bar for operating the movable jaw and holding the same closed, and a tip detachably held by said jaws.

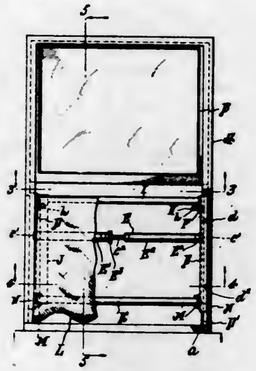
1,429,753. SCUTCHING MACHINE FOR FLAX AND OTHER FIBROUS MATERIALS. GEORGES MICHOT, Dromara, Ireland, assignor to The Fibre Corporation Limited, London, England. Filed July 6, 1921. Serial No. 482,821. 5 Claims. (Cl. 19—12.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a scutching machine of the type in which the material is conveyed between a pair of superposed endless

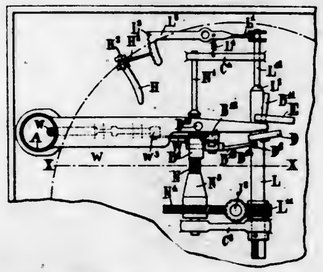
banda in a plane parallel to and close to the plane of motion of the beaters, and the beater shafts are arranged at a lower level than the places of feeding and withdrawing material, means for mounting and tensioning the conveying bands comprising a pair of carrier pulleys mounted at about the same level as the beater shafts, a pair of guide pulleys around which the conveying bands with the material pass, two jockey pulleys, one for each conveying band independently mounted, one vertically above the other, and means for exerting pressure between the jockey pulleys and their respective conveying bands.

1,429,754. AWNING BRACKET. FRANCIS MILLER, Cincinnati, Ohio. Filed Sept. 12, 1921. Serial No. 499,941. 7 Claims. (Cl. 156—42.)



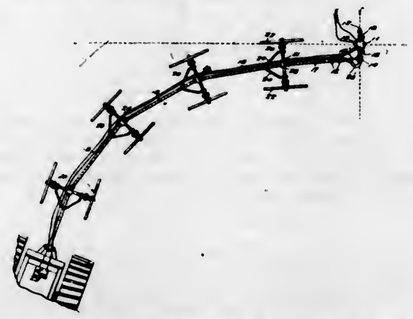
7. Awning attachments for window frames provided with channels for the sashes, comprising a pair of end frames adapted to fit freely in opposite channels of the window frame, an adjustable spreader adapted to spread these end frames apart and hold same in said channels, or to release same when desired, swinging arms detachably connected to said frames near the lower end thereof and each provided with a notch on its lower end, notched plates detachably connected to said side frames near the upper end of said frames, a pair of rods adapted to engage in said notched plates and in said swinging arms, respectively, parallel straps connecting said rods, and an awning fabric secured to said straps and extending between said rods.

1,429,755. REPEATING AND STOPPING DEVICE FOR TALKING MACHINES AND THE LIKE. FRANK BOWLEY MITCHELL, Hove, England. Filed Dec. 12, 1921. Serial No. 521,880. 8 Claims. (Cl. 274—15.)



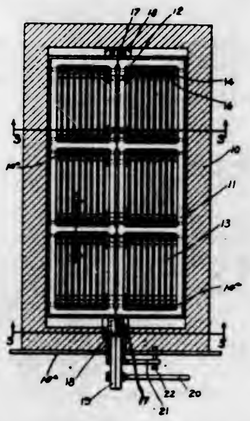
1. Automatic repeating apparatus for disc talking machines and the like applicable to any standard diameter of record disc and extent of phonic record thereon, comprising a reproducer, means for automatically returning the reproducer to the sound commencement position after a sound reproduction has been completed, a limiting device to limit the return travel of the reproducer and means associated with the reproducer and the limiting device for initially setting the limiting device upon the manual raising and initial setting of the reproducer.

1,429,756. IRRIGATING MACHINE. JOHN C. MITCHELL, Sterling, Kans. Filed Jan. 12, 1921. Serial No. 436,725. 2 Claims. (Cl. 299—47.)



1. In an irrigating apparatus, a plurality of similar flexibly connected sections each including a wheel carrying truck, an upstanding yoke carried by the axle of the truck, an upstanding bracket member mounted at the center of each yoke and formed as a ball socket, a pipe secured at one end within said ball socket and having its other end formed with a hollow ball head engaged within the socket of the next adjacent section whereby the successive sections will be pivotally connected, the pipe being perforated throughout its length, and an upwardly inclined brace bar secured upon the axle of the truck and having its upper end connected with the pipe.

1,429,757. FURNACE GRATE. SAMUEL B. MOTT, Noblesville, Ind. Filed Feb. 5, 1921. Serial No. 442,785. 2 Claims. (Cl. 126—178.)



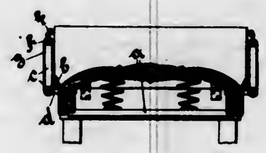
2. In a furnace, a fire grate comprising a supporting frame, said frame having a plurality of apertures therein, means on said frame for supporting it in the furnace, whereby it will be rotatable therein, a plurality of plates mounted in said apertures and supported by said frame for providing grate surfaces and each having a notch in each end thereof, and rods removably mounted in said frame seated in said notches for removably securing said plates therein, said plates having means for spacing them from each other.

1,429,758. ILLUMINATED NUMBER PLATE. GEORGE H. NEEDHAM, Newark, N. J., assignor of one-half to George Jacob Needham, Newark, N. J. Filed Aug. 22, 1919. Serial No. 319,241. 2 Claims. (Cl. 40—132.)



1. A license plate having light penetrating portions, a casing to detachably mount said plate, illuminating means in the casing for said plate, said illuminating means being substantially vertically adjustable relatively to the light-penetrating portion of different plates which may be mounted on said casing.

1,429,759. BED OR THE LIKE. ELIUS NIELSEN, Vejle, Denmark. Filed Apr. 12, 1922. Serial No. 551,852. 2 Claims. (Cl. 5—46.)



1. A bed or the like, comprising, in combination, a body or bottom provided with upholstering and with internal springs, said body having broad seams formed along both sides thereof; and a plurality of sides each composed of an elongated U-shaped frame, a single resilient element connecting the free ends of the arms of the U so as to close the open side of the frame, and a cover completely enclosing said frame and spring element and devoid of connection with the upholstering of the body, said cover adapted to yield when pressure is exerted against it but automatically returned to normal position by the spring element immediately such pressure is removed; the broad seams on the bed body overlapping and fitting tightly against the adjacent sides.

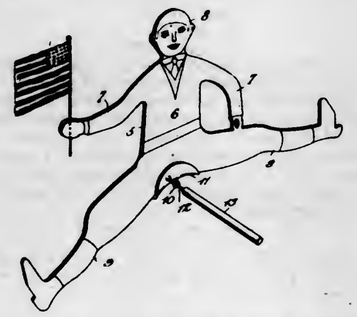
1,429,760. FACE-ILLUMINATING RAZOR. LESTER E. NORQUIST, Denver, Colo. Filed July 18, 1921. Serial No. 485,439. 3 Claims. (Cl. 240—2.)

1. An illuminated razor for shaving, a razor blade and its holder and a handle secured to said razor, containing a lamp arranged to throw its light onto the face of the user and around the razor; it being provided with a light reflector arranged to direct the light from shining back of the handle; said lamp being an electric lamp having means for connecting the lamp to a source of current supply; and a glass cylinder in said handle surrounding said lamp, and means for detachably connecting said glass cylinder to said handle; said electric lamp being provided with a



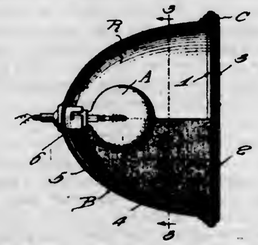
socket and a plug and socket circuit wire, and cord arranged to be removably connected to said electric lamp socket.

1,429,761. TOY. TEIJIN ODARKA, West Orange, N. J. Filed Dec. 11, 1920. Serial No. 429,987. 1 Claim. (Cl. 46—40.)



A toy comprising a handle having a fixed axis, an object supported from said axis and provided with means to permit it to be spun around said axis and to rock thereon, said means including an eye member extending from the base of the object and freely embracing said axis, the object including a portion normally rising above the axis and portions arranged to extend downward and straddle the axis.

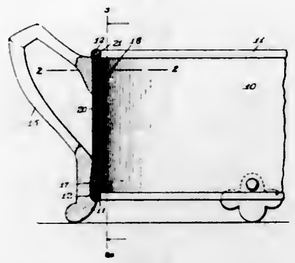
1,429,762. HEADLIGHT DIMMER. NATHAN A. OLIVER, Mattapoisett, Mass. Filed Oct. 24, 1921. Serial No. 509,824. 1 Claim. (Cl. 240—48.4.)



An automobile headlight lens comprising a glass disk having smooth faces, the lower half of said disk being

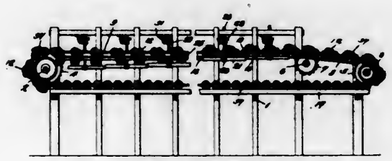
plain and the upper half thereof being ground for dimming the light rays projected therethrough above the horizontal axis of the illuminating element, and an integral substantially semi-parabolically shaped extension carried by the lower half of the disk and extending inwardly therefrom into the headlight to cover approximately the entire area of the lower half of the reflector, the inner surface of said extension being non-reflecting, whereby to decidedly effect and dull the light rays projected from the bulb toward the lower and central portion of the reflector.

1,429,763. CASSEROLE FRAME. JOHN J. O'MARA, Brooklyn, N. Y. Filed Feb. 23, 1921. Serial No. 447,148. 5 Claims. (Cl. 65—61.)



1. A casserole frame comprising a split metallic band having a plurality of apertures adjacent its ends, a metallic plate disposed over the adjacent ends of the band on the inside of the same and provided with openings registering with the openings of the band, a plate arranged over the adjacent ends of the band on the outside of the same, and a handle provided with lugs passing through the apertures of the said band and plates and having their ends flattened on the inner plate.

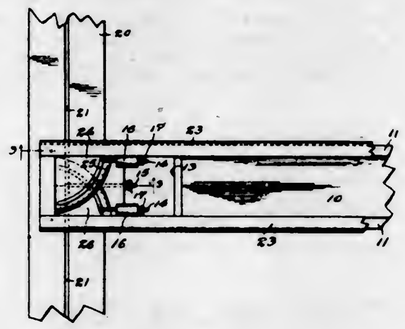
1,429,764. SIZER AND GRADER. ARTHUR M. O'QUINN, Miami, Fla. Filed July 30, 1920. Serial No. 400,057. 6 Claims. (Cl. 130—32.)



1. In a sizer and grader, a conveyor comprising main rollers, and auxiliary rollers movable on the conveyor toward and away from the main rollers to define grading openings of adjusted sizes, the main and auxiliary rollers having circumferential grooves which coact to dispose that portion of the periphery of the fruit which approaches most closely to a true circle, in a plane substantially at right angles to the axes of the rollers.

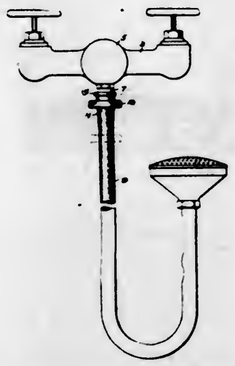
1,429,765. ADJUSTABLE SQUARE AND MITER. ROSCOE R. PAFFORD, Wichita Falls, Tex. Filed Jan. 9, 1920, Serial No. 350,397. Renewed Mar. 17, 1922. Serial No. 544,693. 2 Claims. (Cl. 33—93.)

1. An adjustable square and miter comprising a body portion having a slidable blade thereacross formed with a longitudinal channel, a plurality of miter arms pivoted on said body and having slotted sectors movable into said body, longitudinal guide sleeves within the body, a screw member slidable in each sleeve, a lateral bill on each screw member engaged respectively in the channel and slots of



the blade and sector, and nuts within said body on the screw members engaging the sleeve by which the screw members may be drawn into clamping engagement with the respective members engaged thereby.

1,429,766. HOSE CONNECTION. JOHN W. PATTERSON, New Haven, Conn., assignor to The Seamless Rubber Company, Inc., New Haven, Conn., a Corporation of Massachusetts. Filed June 28, 1920. Serial No. 392,210. 3 Claims. (Cl. 285—82.)

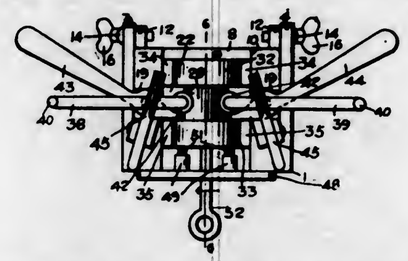


3. An article of manufacture comprising a rubber hose for attachment to a faucet or the like and having its exterior wall of greater diameter adjacent the end to provide a flexible socket portion, said socket portion having a terminal bead, and a thick rubber ring of less internal diameter than the diameter of said bead and fitting loosely the body of the hose adapted to be strained about said socket to bind it to an inserted faucet or the like.

1,429,767. BABBITTING MACHINE. AUGUST ERIC PEARSON, Toronto, Ontario, Canada. Filed Nov. 26, 1921. Serial No. 517,938. 3 Claims. (Cl. 22—123.)

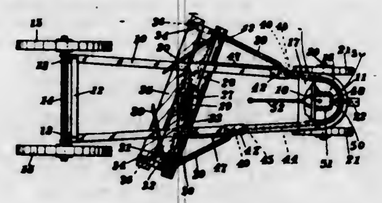
1. In a babbitting machine, a mandril supported upon a suitable structure, guideways located in each side of the mandril, a resiliently supported lower block engaging the lower end of the mandril and slidable within the guideways, an upper block also freely slidable within the

guideways and resting upon the upper end of the bearing cap, and a lever support for the cap adapted to eject



the cap and upper block from the guideways when the lower block is withdrawn against the pressure of the resilient supporting means.

1,429,768. ROAD MAINTAINER. DANIEL B. REARDON, Council Bluffs, Iowa. Filed Sept. 27, 1920. Serial No. 413,025. 14 Claims. (Cl. 37—7.)



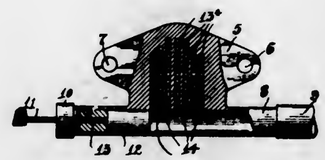
1. In a road maintainer, a wheeled frame, a scraper arranged beneath the frame, slides mounted on opposite sides of the frame, a flexible device connecting the slides one to the other and engaging about the forward end of the frame to advance one slide upon the backward shifting of the other, braces pivotally connecting the slides to the opposite ends of the scraper for maintaining the latter in adjusted position when the slides are shifted, and means for elevating one end of the scraper whereby to permit the other end of the scraper to drag in the roadway and shift said slides for changing the angular relation of the scraper to the wheeled frame, and means for locking the slides in adjusted position.

1,429,769. WAGON-POLE EXTENSION. CHARLES C. PRIMUS, Ewing, Nebr. Filed June 29, 1921. Serial No. 481,357. 2 Claims. (Cl. 278—50.)



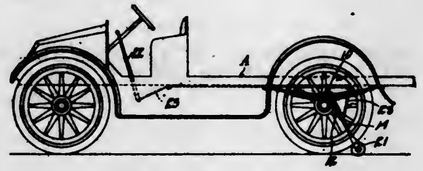
1. An extension for draft poles, the same comprising a stub pole having a neck yoke stop upon its under side, straps secured to the opposite sides of the stub pole and extending in approximately parallel relation, a clip at the rear ends of the straps, a bolt passing through registering openings formed in the overlapping ends of the clips and straps whereby to clamp the pole therebetween, a second clip engaging the outer sides of the lower edges of the straps near their forward ends, and a bolt connecting the overlapping portions of said second clip and the straps and adapted to clamp the forward end of the pole therebetween.

1,429,770. AUXILIARY AIR INTAKE FOR INTERNAL-COMBUSTION ENGINES. JOHN H. PROFFITT, Fresno, Calif., assignor of one-half to Reed Haas, Los Angeles, Calif. Filed Oct. 13, 1920. Serial No. 416,762. 5 Claims. (Cl. 48—180.)



2. An auxiliary air intake for internal combustion engines, comprising a perforated plate adapted to be fitted to the intake of the engine to intercept the carburetted charge passing there-through, transverse ducts communicating with the perforations and an air supply, and means for controlling the effective port area of said ducts.

1,429,771. VEHICLE BRAKE. WILLIAM M. RAYMOND, Stamford, Conn. Filed July 16, 1920. Serial No. 396,723. 2 Claims. (Cl. 188—30.)

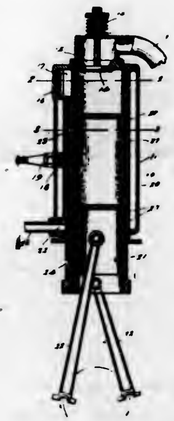


1. A vehicle brake comprising adjustable bars pivoted to the axle of the vehicle, a cross-bar carried to slide in ways in the lower ends of said pivoted bars, and extending substantially the width of the vehicle, springs for normally holding said cross-bar in its outward position, rollers with corrugated surfaces carried by means of said cross-bar in position to come beneath the wheel of the vehicle, and means for raising and lowering said device to bring it toward or away from the ground, substantially as set forth.

1,429,772. MOTOR. LOUIS REICHARD, Easton, Pa. Filed Oct. 23, 1920. Serial No. 418,977. 1 Claim. (Cl. 123—50.)

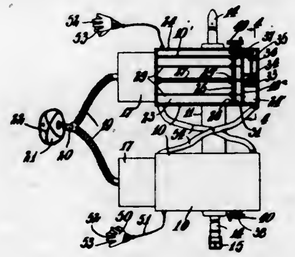
In an internal combustion engine, a cylinder having an intake opening at the top thereof and an exhaust opening adjacent the lower end thereof, an intake manifold communicating with the inlet opening, an inwardly opening valve operating through the intake manifold and normally closing the intake opening, said cylinder being extended adjacent the upper ends thereof to provide a laterally disposed pocket, relatively long and short pistons arranged within the cylinder and operating one within the other, with the small piston sliding within the long piston, said long piston having an inlet opening and an exhaust opening adapted to simultaneously communicate with said pocket

and the exhaust opening respectively of the cylinder when said pistons are moved to their limits away from each other, a water jacket surrounding the cylinder, said jacket and cylinder having an opening approximately



midway of its length, a spark plug arranged in said opening, and said inlet opening of the long piston being adapted to be brought into aline with the spark plug on the final position of the piston, when said pistons are moved toward each other for the purpose specified.

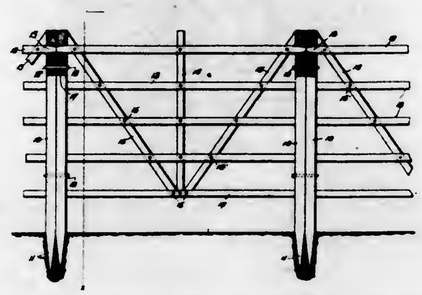
1,429,773. LIFE-SAVING AND SWIMMING APPARATUS. JOSEPH REITER, New York, N. Y. Filed Dec. 3, 1921. Serial No. 519,600. 4 Claims. (Cl. 9—14.)



1. In a device of the class described, a pair of cylinders, pistons in said cylinders, means for securing said cylinders on the body of a swimmer, and means for moving said pistons longitudinally in said cylinders said cylinders having ports at one end for the intake and discharge of water as the said pistons are moved in opposite directions.

1,429,774. PORTABLE FENCE. MAYHAM WILLIAM RHOADES, Highland, N. Y. Filed Mar. 9, 1921. Serial No. 451,059. 1 Claim. (Cl. 256—73.)

A fence panel comprising end supporting members, said members having their opposed vertical faces formed to provide a plurality of vertically spaced recesses, the recesses of one of the members being disposed in alinement with the recesses of the other thereof and tapered in opposite directions with respect thereto, horisontally disposed rails extending between said members and having their opposite ends wedged into engagement with the complemental of the recesses thereof, a brace disposed vertically of said rails and medially between said members and

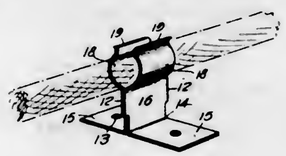


separably connected to each rail, and diagonally extending braces connecting the top ends of said members and the bottommost of the rails at points directly to either side of the points of connection of the vertical brace therewith, said diagonal braces also connecting the other of said rails at the points of their crossing therewith.

1,429,775. PROCESS OF BLEACHING AND DYEING VEGETABLE AND ANIMAL FIBERS. ARTHUR S. ROBERTS, Greenville, S. C., assignor, by mesne assignments, to Surpass Chemical Co., Inc., a Corporation of New York. Filed Mar. 30, 1921. Serial No. 457,087. 12 Claims. (Cl. 8—5.)

1. The process of dyeing and bleaching at the same time in a single bath which comprises subjecting the material to be dyed to a bath having added thereto the dye, an alkaline oxidising agent and a neutralizing agent.

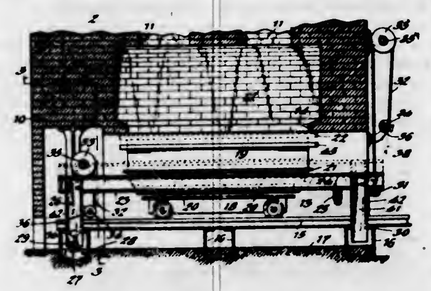
1,429,776. SUPPORT AND METHOD OF MAKING SAME. WILLIAM JOHN ROBINSON, Harrisburg, Pa. Filed Dec. 28, 1921. Serial No. 525,409. 1 Claim. (Cl. 248—31.)



A support comprising superposed plane members united upon both edges throughout its central portion, having lips extending laterally in opposite directions from one side of the centrally united portion to occupy substantially the same plane some of whose lines are substantially perpendicular to the united edges, and curviform lips upon the opposite side of the central united portion spaced apart to conform to and resiliently clasp the article to be engaged thereby.

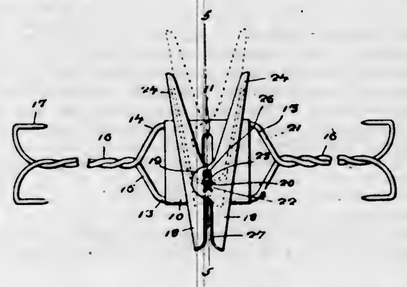
1,429,777. METALLURGICAL FURNACE. CONRAD C. ROLLER, Buffalo, N. Y. Filed Oct. 30, 1920. Serial No. 420,633. 10 Claims. (Cl. 263—45.)

1. The combination with a metallurgical furnace having a down-flue and a tunnel communicating therewith, of a car having a detachable body movable into and out of engagement with said flue to make a joint therewith, supporting rails arranged in said tunnel for engagement with



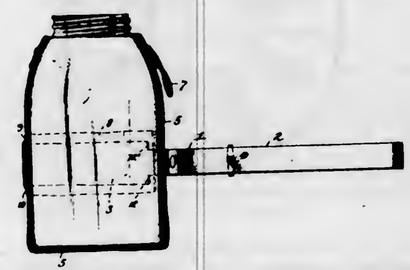
the body of said car, and means for raising and lowering said supporting rails.

1,429,778. SUPPORT. ORVILLE A. SAVAGE, Paso Robles, Calif. Filed Jan. 7, 1922. Serial No. 527,747. 4 Claims. (Cl. 47—31.)



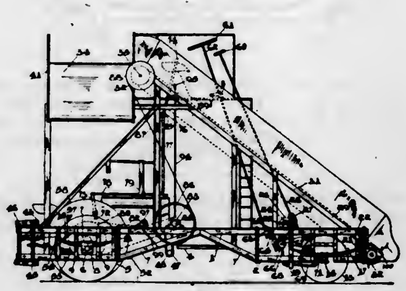
1. A device for supporting trees, plants and the like in an upright position when the same are arranged in an excavation during the planting thereof, comprising a plate, means for supporting the plate in a horizontal position to one side of the excavation, and a pair of spring influenced jaws.

1,429,779. CANNING DEVICE. LOUIS SCHERKMAN, Duluth, Minn., assignor of one-half to Louis Oreck, Duluth, Minn. Filed Nov. 8, 1920. Serial No. 422,721. 6 Claims. (Cl. 215—12.)



1. In a device of the character described, the combination of, a jar-receiving member formed of absorbent material; and a fruit-jar holder operatively associated therewith.

1,429,780. ELEVATING LOADER. HERMAN D. SCHNEIDER, Brunner, Ontario, Canada. Filed May 2, 1921. Serial No. 466,190. 19 Claims. (Cl. 56—27.)



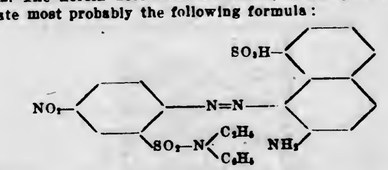
1. In an elevating loader, the combination of a loader frame comprising members forming a tractor-receiving opening; ground wheels supporting the frame; a tractor adapted to propel the loader; and means connecting said tractor to the frame within said opening and in alinement with the frame while permitting it to float up-and-down relatively thereto.

1,429,781. BLUE WOOL DYESTUFF. HUGO SCHWEITZER, Leverkusen, near Cologne, Germany, assignor to Farbenfabriken Vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Aug. 8, 1921. Serial No. 490,701. 2 Claims. (Cl. 260—92.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. The herein described new azodyes, which in the form of their dried and pulverized salts with alkali metals are dark powders soluble in water generally with a bluish and in concentrated sulfuric acid with a red coloration; yielding upon reduction with tin and hydrochloric acid a substituted para-phenylenediaminsulfamid and a 1.2-diamino-8-naphtholsulfonic acid compound; and dyeing wool blue shades fast to light and fulling, substantially as described.

1,429,782. REDDISH-VIOLET MONOAZO DYE FOR WOOL. HUGO SCHWEITZER, Leverkusen, near Cologne, Germany, assignor to Farbenfabriken Vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Filed Aug. 8, 1921. Serial No. 490,702. 2 Claims. (Cl. 260—90.)

2. The herein described new azo dye having in a free state most probably the following formula:



being in the form of its dried and pulverized sodium salt a dark powder soluble in concentrated sulfuric acid with an orange-red coloration; yielding upon reduction with tin and hydrochloric acid 1.4-diaminobenzene-2-ethylphenylsulfamid and 1.2-diaminonaphthalene-8-sulfonic acid, and dyeing wool from acid baths reddish-violet shades fast to light and fulling, substantially as described.

1,429,783. PLATE HEATER. JOHN LINDSAY SCOTT, London, England. Filed Feb. 2, 1922. Serial No. 533,640. 2 Claims. (Cl. 126—246.)



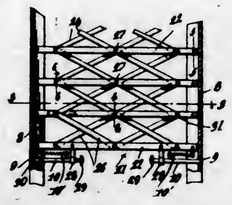
1. A plate heater consisting of a vessel having a flange running around its upper edge, a groove in the flange, a rubber ring in the groove, and means for securing a plate so that its under side is pressed against the india-rubber ring.

1,429,784. HARNESS HANGER. CHRIST SIEVERT, Calio, N. Dak. Filed Aug. 20, 1920. Serial No. 404,880. 4 Claims. (Cl. 248—3.)



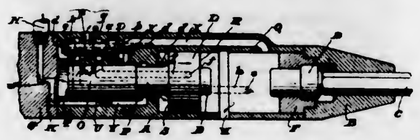
2. A harness hanger having in combination a vertically movable member comprising a harness hook, a pivoted means adjacent said member adapted to engage the same to hold said member in position, a pulley disposed above said member, a cable disposed over the pulley and adapted to be pulled to elevate said member, and a flexible means connected to said pivoted means through which the cable passes.

1,429,785. SELF-ADJUSTABLE LINE GAUGE. CLOYDE H. SMITH, North Adams, Mass., assignor of one-half to George M. Matzet, now by judicial change of name George Michael Malton, Brooklyn, N. Y. Filed Sept. 12, 1917. Serial No. 191,088. 5 Claims. (Cl. 235—61.)



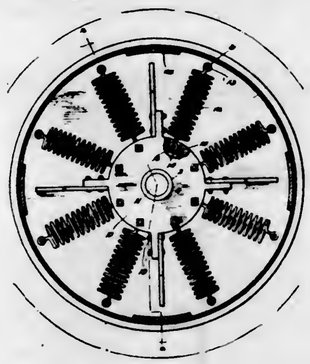
1. A gauge of the class described comprising a fixed and a movable member, one having columns of indicia thereon and elements located at predetermined points, and the other having means for cooperation with said indicia and other means to co-operate with said points to determine quickly and accurately the number of lines of a selected type necessary to fill a space of known dimensions.

1,429,786. ROCK DRILL. WILLIAM A. SMITH, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 13, 1920. Serial No. 403,357. 1 Claim. (Cl. 121—18.)



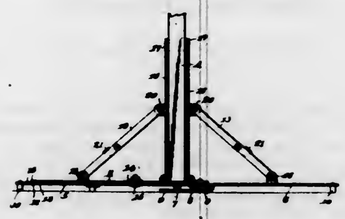
In a fluid operated rock drill of the hammer type, the combination of a cylinder and differential piston having two surfaces for driving it forwardly and one surface for driving it rearwardly, means for constantly supplying fluid pressure to one of the forwardly driving pressure surfaces, passages controlled by the piston for admitting and exhausting pressure in the cylinder to exert an intermittent pressure on the other of the forwardly driving pressure surfaces, means for exerting intermittent pressure on the rearwardly driving pressure surface including a forward supply passage opening into the rearward end of the cylinder through a forward admission port controlled by the piston, anti-compression ports for relieving compression in the intermittently supplied portions of the cylinder and a fluid actuated valve controlling a rearward admission port and the supply of fluid through said forward supply passage to the rearwardly driving pressure surface and also controlling communication between the said anti-compression ports and the atmosphere, said valve having operative surfaces exposed to the pressure on said intermittently supplied surfaces.

1,429,787. RESILIENT VEHICLE WHEEL. FRANK B. SNYDER, Altoona, Pa. Filed Apr. 7, 1922. Serial No. 550,399. 2 Claims. (Cl. 152—52.)



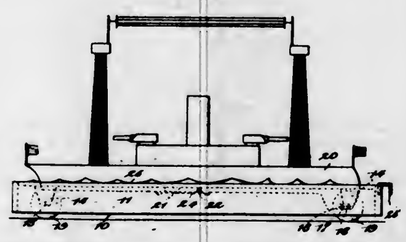
2. A resilient wheel comprising a body including sections each comprising a side plate and an inwardly projecting annular flange, the flange of one section fitting within the flange of the other section and the first mentioned flange having inwardly projecting ears, bolts secured through the side plates of the sections inwardly of the flanges and extending also through said ears, a hub, the hub having recesses in its periphery, bolts extending across the recesses, and springs for yieldably supporting the hub within the circumference of the body for floating movement, the springs being connected at their inner ends to the last-mentioned bolts and at their outer ends to the first-mentioned bolts.

1,429,788. DOOR-SUPPORTING CLAMP. EDWARD M. SOLIAH, Hatton, N. Dak. Filed May 18, 1922. Serial No. 561,890. 2 Claims. (Cl. 144—296.)



1. A clamp of the character described comprising a pair of base members hinged to each other and having cushion feet, a bridge piece hinged to one of the members and adapted to underlie the hinge connection between said members and having cushion feet, an adjustable slide carried by one member, clamping jaws hinged to the slide and the other member, and break-jointed braces connected with the clamping jaws, the slide and said other member.

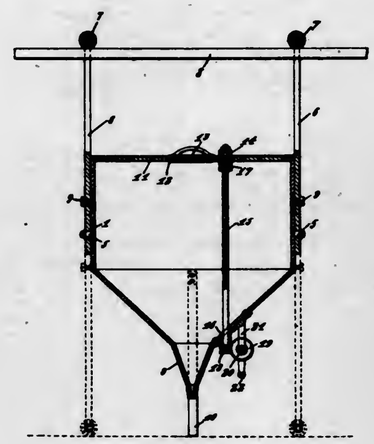
1,429,789. TOY. WILLIAM C. STANKE, Hoboken, N. J. Filed Oct. 4, 1920. Serial No. 414,466. 3 Claims. (Cl. 46—45.)



1. In a device of the class described, the combination of a box-like frame having an aperture therein, a pin extending crosswise of said aperture, a boat figure provided with a cutaway portion for co action with said pin, wave-simulating members mounted adjacent to said aperture, means for securing said pin and figure in co-operative relationship, wheels upon which said frame is supported, and a crank shaft operable by certain of said wheels and secured to said figure.

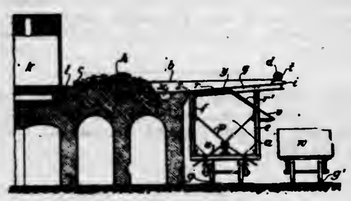
1,429,790. FEED MIXER. JOHN GALE STEELE, Amarillo, Tex. Filed Feb. 7, 1921. Serial No. 443,235. 1 Claim. (Cl. 105—150.)

Apparatus of the class described including a tank having an outlet, means for directing the contents of the tank through the outlet, hangers adjustable angularly upon opposed portions of the tank, support engaging wheels connected to the hangers, and means for securing



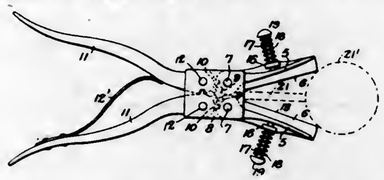
said hangers in either upwardly or downwardly extending positions upon the tank for engagement with an overhead or an underneath support.

1,429,791. APPARATUS FOR QUENCHING, LOADING, AND SCREENING COKE. CARL STILL, Recklinghausen, Germany, assignor to The Firm Carl Still, Recklinghausen, Germany. Filed Sept. 2, 1921. Serial No. 497,981. 9 Claims. (Cl. 214—38.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



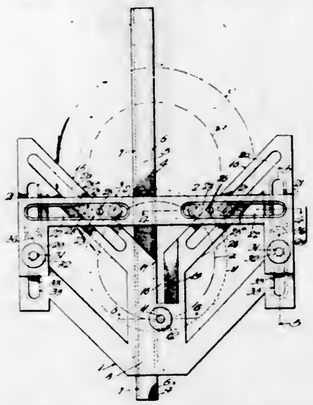
1. An apparatus for quenching, loading and screening coke comprising in combination a substantially horizontal stationary bench for quenching and storing coke discharged from coke ovens, a car adapted to travel along the outside of said bench, a screen arranged on top of the car in the continuation of the quenching bench plane, a chute attached to the screen and a mechanically driven scraper or sweeper operated from the car and adapted to move a mass of coke in a coherent pile across the bench, over the screen and toward the chute attached thereto.

1,429,792. ENVELOPE-CLOSURE TOOL. JACOB STEISS, New York, N. Y. Filed Aug. 26, 1921. Serial No. 495,610. 10 Claims. (Cl. 81—15.)



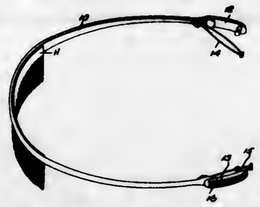
1. In an envelope clasp tool, the combination of a base plate blades independently pivoted to said base plate, handles separately pivoted to said base plate, and resilient mean connecting the handles and the blades to close the latter.

1,429,793. CENTER-FINDING INSTRUMENT. EDWIN THEODORE STRAUSS, La Crosse, Wis. Filed Mar. 8, 1920. Serial No. 364,032. 10 Claims. (Cl. 33—95.)



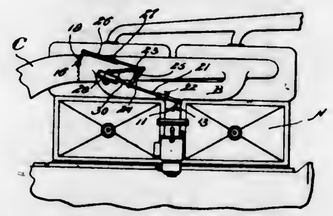
1. In a center-finding instrument, an indexing structure provided with an indexing edge and two guides, said guides being arranged at equal angles to the said indexing edge and converging toward one another, a pair of work-engaging abutments, and means engaged with and movable along said guides for simultaneously and equally adjusting said abutments toward and from said indexing edge.

1,429,794. HAIR COMB. CHARLES STRIER, Brooklyn, N. Y., assignor to Jennie Strier, Brooklyn, N. Y. Filed Aug. 17, 1921. Serial No. 493,051. 1 Claim. (Cl. 132—25.)



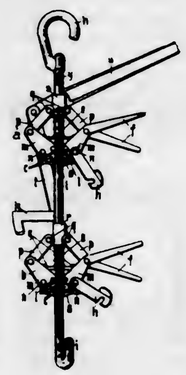
As a new article of manufacture, a hair comb of the class described, comprising a resilient band, a curved comb for engaging the hair to retain it in position carried by the band, and barrettes provided with means for positively gripping the hair attached to the resilient band.

1,429,795. MOTOR GOVERNOR. GUSTAV A. STROM, Minneapolis, Minn. Filed Apr. 26, 1921. Serial No. 464,645. 4 Claims. (Cl. 137—152.)



1. The combination with an internal combustion engine, of an automatic governor comprising an eccentrically pivoted disk within the exhaust manifold of the engine, a crank arm associated with said disk, a centrally pivoted disk within the intake manifold, a crank arm carried by said second named disk, and a series of links connecting said crank arms.

1,429,796. DEVICE FOR STRETCHING WIRE AND WIRE ROPES. OTTO STÜTTGEN, Futerbog, Germany. Filed Mar. 31, 1921. Serial No. 457,549. 1 Claim. (Cl. 254—70.)

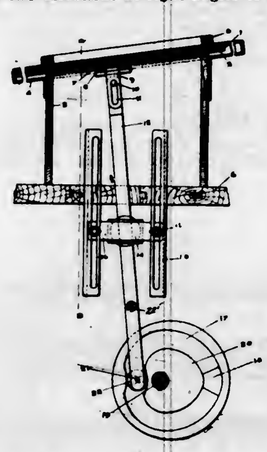


A device for stretching wire and wire ropes comprising in combination, a guiding rod, a suspension hook at one end of said guiding rod, an automatically closing pulling claw on said guiding rod, a lever gearing for moving said pulling claw on said guiding rod, an automatically closing holding claw attached to said guiding rod and located between said suspension hook and said pulling claw and adapted to act as soon as said pulling claw is displaced for a further action, and a pair of parallel acting clamping jaws on said pulling claw as well as on said holding claw, substantially as and for the purpose set forth.

1,429,797. APPARATUS FOR THE REVISION OF BALLS. ROBERT WERNER SVENNING, Gottenborg, Sweden, assignor to Nordiska Kullager Aktiebolaget, Regulusgatan, Lundby, Gottenborg, Sweden. Filed Sept. 11, 1920. Serial No. 409,749. 5 Claims. (Cl. 83—92.)

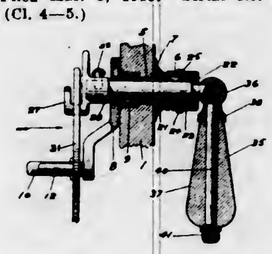
1. An apparatus for the revision of balls for bearings including a movably mounted inclined member having a

plane surface, and means for imparting an oscillating motion in two directions at right angles to each other so



that the plane surface will rotate the said balls and thus enable every spot of their surfaces to be seen from one and the same direction.

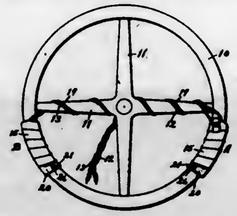
1,429,798. VALVE-OPERATING MECHANISM FOR FLUSH TANKS. WILLIAM W. TEMPLET, Oakland, Calif. Filed Mar. 5, 1919. Serial No. 280,874. 1 Claim. (Cl. 4—5.)



In a flush tank operating mechanism, a shaft rotatably mounted in the wall of the tank and extending therethrough; a handle secured to the shaft at the outer end thereof so that the handle is thereby adapted to oscillate and to remain normally in a pendent position; a bell crank lever having a curved short arm and being pivotally mounted in the tank and having its long arm connected with the flush valve in the tank for opening the flush valve, the short arm having a slot therein and inner edge of the short arm having a recess therein adjacent to the end of the arm; a yoke secured to the shaft at the inner end thereof and embracing the short arm of the lever, said yoke engaging the inner edge of the short arm for operating the lever by oscillation of the handle; a detent in the yoke adapted to engage the recess in the short arm for restricting the oscillative movement of the handle in one direction; and a pin connected with the wall of the tank and extending through the slot for restricting the oscillative movement of the handle in the other direction.

1,429,799. ELECTRIC HEATER FOR STEERING WHEELS. EDWARD S. TISDELL, Des Moines, Iowa. Filed Nov. 15, 1920. Serial No. 424,146. 10 Claims. (Cl. 219—19.)

2. In a heating device for steering wheels, a flexible strip arranged to form a casing, resistance units enclosed in said casing, an elastic member secured to the end of said strip, and interengaging fastening members at opposite ends of said elastic strip, the distance between said fastening members being less than the circumference of the rim on which the device is designed to be used, whereby said elastic strip is put under tension when said fastening members are engaged.

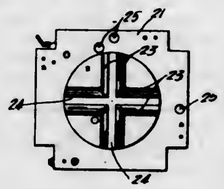


1,429,800. WAISTBAND FOR TROUSERS. CHARLIE THERO, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 10, 1920. Serial No. 395,196. 2 Claims. (Cl. 2—142.)



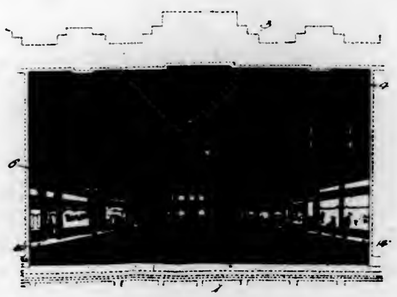
1. The combination of the body fabric of trousers, a stiffening strip at the waist band, a facing strip covering said stiffening strip, said facing strip being turned underneath the edge of the stiffening strip at the lower edge thereof and extending about the stiffening strip and the upper edge of the trousers on the front face of the body portion of the trousers, and parallel lines of stitching passing through the facing strip and the stiffening strip and the body of the trousers adjacent the edges of the facing strip.

1,429,801. IGNITION-POINT-GRINDING DEVICE. JAMES THOMAS, Los Angeles, Calif. Filed Aug. 3, 1921. Serial No. 489,549. 7 Claims. (Cl. 51—216.)



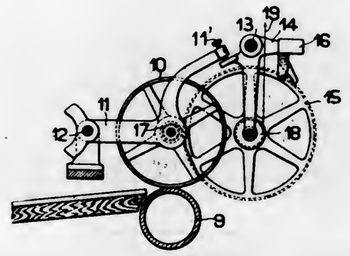
1. In a contact point grinding device, a base, a grinding member arranged for operation thereupon, an adjustable member arranged to move toward and away from said grinding member, the corners of which adjustable member are cut away, said adjustable member being provided with apertures that are adapted to receive fastening means for contact point carrying arms.

1,429,802. ADVERTISING CURTAIN FOR THEATERS. CHARLES F. THOMPSON, Los Angeles, Calif. Filed Mar. 4, 1922. Serial No. 541,106. 5 Claims. (Cl. 40—130.)



1. An advertising curtain for theaters and the like comprising a sheet having opaque and translucent portions, the translucent portions of said sheet being shaped and arranged over the area thereof in simulation of lighted parts of illuminating advertising signs and of a night scene; so that said sheet will present when viewed from the one side and illuminated from the other side a night scene in which rays of light will actually propagate from said translucent portions representing said lighted parts.

1,429,803. SURFACE-MEASURING DEVICE ESPECIALLY FOR LEATHER. HERMANN THUN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 4, 1920. Serial No. 414,694. 3 Claims. (Cl. 33—124.)



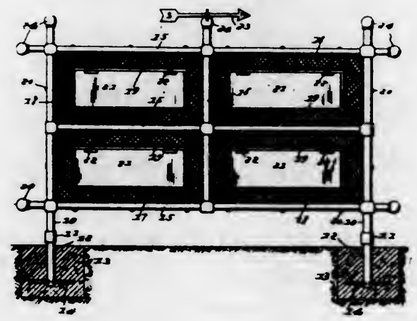
1. In a middle length measuring machine for strips with oblique ends, two strip contacting roller means having their rollers side by side for said strip, a work train for an instrument and a coupling between said first named means and said train normally held disengagingly and independently by either of said roller means.

1,429,804. SOFT-COLLAR CLASP. HARRY L. TOOKER, Taunton, Mass. Filed May 6, 1921. Serial No. 467,508. 1 Claim. (Cl. 24—83.)



A clasp comprising clasp members operable independently of each other, said members each having an extension, one of the extensions having a socket and the other extension having a stud to separably enter said socket to rigidly connect the clasp members together, and one of said extensions constituting a plate disposed for engagement by the fingers simultaneously with the actuating means of the clasp members to coact therewith.

1,429,805. ROADSIDE SIGN. GEORGE TRAUB, WILLIAM TRAUB, and EDWARD TRAUB, Waco, Tex. Filed May 26, 1922. Serial No. 563,869. 1 Claim. (Cl. 40—128.)



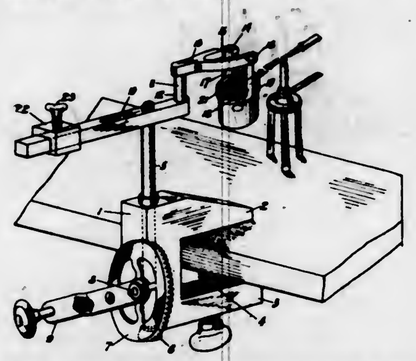
A roadside sign structure having a skeleton frame subdivided to form panels containing fillers of screen material bounding inner open spaces, and freely swinging sign plates respectively suspended in said spaces and yieldable to air pressure, the filler members being provided with inner and outer marginal supplemental frames of which the latter are secured to the members of the skeleton frame and the former support the sign plate.

1,429,806. BUMPER FOR AUTOMOBILES. JAMES TURNER and PEARL P. CRABILL, Springfield, Ohio. Filed June 6, 1921. Serial No. 475,371. 6 Claims. (Cl. 293—55.)



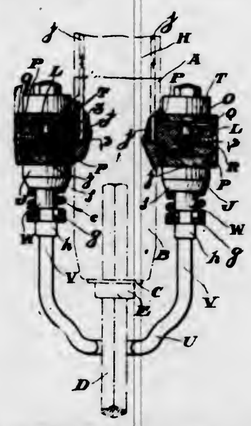
4. In a bumper for automobiles, a bar having its ends bent to form resilient attaching arms, resilient braces for said bar, each brace being bent so that its forward end will lie parallel with the bar and its rear end parallel with its companion arm, means for connecting the braces to the bar and also for connecting the braces and arms to the vehicle, two reinforcing strips on the forward side of said bar having their respective ends connected therewith, the outer reinforcing strip being bowed forwardly, and the inner reinforcing strip being bent forwardly on a lesser length than the bowed portion of the outer strip so that its central portion will lie in proximity to the central portion of the bow of the outer strip.

1,429,807. CENTRIFUGAL CASTING MACHINE. JOSEPH V. TURNER, Wilson, N. C. Filed Sept. 29, 1921. Serial No. 504,165. 8 Claims. (Cl. 22—65.)



1. A centrifugal casting machine comprising an arm mounted to rotate in a horizontal plane, means for rotating said arm and an investment flask in operative relation to said arm and limited in its movement to rotation about axes which are perpendicular each to each.

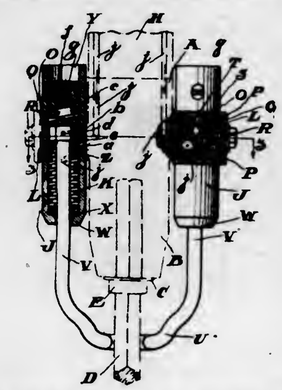
1,429,808. DRILL-STEEL RETAINER. GROVER G. TUTTLE, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 2, 1921. Serial No. 474,478. 4 Claims. (Cl. 121—32.)



1. A drill steel retainer for rock drills, comprising cushion holding guides pivoted at opposite sides of the front head of the machine, cushioning means on said guides, a yoke retainer for the drill steel having arms guided in said guides and cushioned by said cushioning means, and means for maintaining fluid pressure within said guides to supplement the expansive force of the cushioning means in one direction.

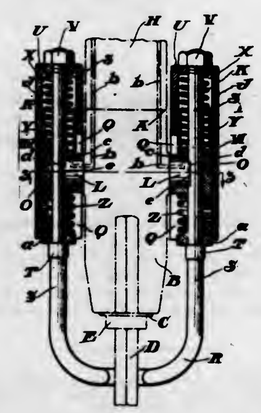
1,429,809. DRILL-STEEL RETAINER. GROVER G. TUTTLE, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 2, 1921. Serial No. 474,479. 4 Claims. (Cl. 121—32.)

1. A drill steel retainer for rock drills, comprising cushion holding guides pivoted at opposite sides of the front head of the machine, cushioning means wholly within said guides, a yoke retainer for the drill steel having arms guided in said guides and cushioned by said



cushioning means, and means for maintaining fluid pressure within said guides to supplement the expansive force of the cushioning means in one direction.

1,429,810. DRILL-STEEL RETAINER. GROVER G. TUTTLE, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 2, 1921. Serial No. 474,480. 4 Claims. (Cl. 121—32.)

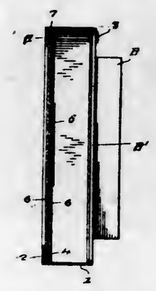


1. A drill steel retainer for rock drills, comprising swinging and longitudinal movable cushion holding guides at each side of the front head of the machine, cushioning means on said guides, a yoke retainer for the drill steel having arms guided in said guides and cushioned by said cushioning means and means for maintaining fluid pressure within said guides to supplement the expansive force of the cushioning means in one direction.

1,429,811. REGISTER ATTACHMENT. DANIEL F. TYNAN, deceased, late of Cincinnati, Ohio, by Frances M. Pabst, administratrix, South Norwood, Ohio. Filed July 22, 1921. Serial No. 486,750. 1 Claim. (Cl. 183—62.)

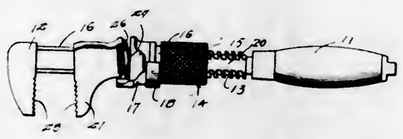
A register attachment comprising a rectangular shaped casing having closed side and end walls and open front

and rear faces, a flange formed integrally with the walls and adapted to extend inwardly over the front face, a plurality of ears secured to the walls and adapted to extend inwardly over the rear face, means secured to said ears whereby the rear face may be detachably secured over a register, said casing being provided with an elongated opening extending the entire length of the end wall, a



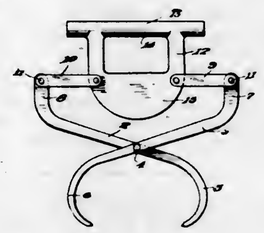
metallic frame adapted to be slid through said opening and engage the inwardly extending flange, said frame having its members formed of channel strips, a plurality of strips secured to the side walls and adapted to support said frame within the casing and a pair of screens arranged in super-imposed relation and having their edges secured in said channel, one screen having a larger mesh than the other as and for the purpose specified.

1,429,812. WRENCH. JOHN VAN HORN, San Francisco, Calif. Filed Dec. 15, 1921. Serial No. 522,613. 4 Claims. (Cl. 81—161.)



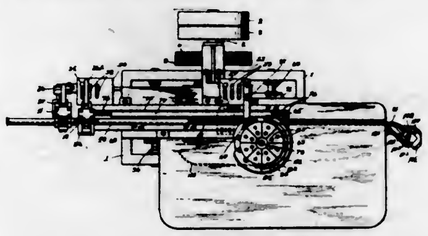
1. A wrench having jaws, a shank extending from one of said jaws, a nut operable on said shank, a follower slidable on said shank and movable with said nut, one of said jaws fulcrumed on said follower, and a spring interposed between said last mentioned jaw and said follower to normally urge the last mentioned jaw into an inclined position.

1,429,813. TONGS. ZENA WATTS, Chicago, Ill. Filed Oct. 2, 1920. Serial No. 414,163. 3 Claims. (Cl. 294—118.)



1. Tongs comprising a pair of jaws pivoted together and a weighted hand grip having flexible connection with the jaws.

1,429,814. WIRE-BENDING MACHINE. ALBERT T. WEISS, Rochester, N. Y. Filed June 16, 1921. Serial No. 478,159. 16 Claims. (Cl. 140—71.)



1. In a wire bending and forming machine adapted to form oval shaped wire loops, the combination of a frame, a wire clamping mechanism provided at one end of said frame, a second wire clamping mechanism mounted to reciprocate on said frame, said second wire clamping mechanism being adapted to feed straight sections of wire from said first clamping mechanism, a wire cut off mechanism at the other end of said frame and a wire bending mechanism intermediate of said clamping and said cut off mechanism, said wire bending mechanism being adapted to bend a half circle on two consecutive sections of wire fed forward by said movable clamping mechanism, said half circles being bent to oppose each other to form an oval shaped loop, said cut off mechanism being adapted to cut off the formed loop from the end of the wire.

1,429,815. POWER-TRANSMISSION MECHANISM. FRANZ WELS, Vienna, Austria. Filed Dec. 2, 19.. Serial No. 519,539. 3 Claims. (Cl. 74—14.)



3. Mechanism of the character described including in combination, spaced paralleled guides, a head slidable therein, a resilient blade-like element mounted medially of its ends for oscillation in the head, a rotating crank mounted in said guides, and a connecting member pivoted to the crank and rigidly connected with the element for reciprocating the element so that it will describe alternating undulatory oscillations.

1,429,816. HAIRPIN. AARON WENGER, Bayonne, N. J. Filed Dec. 20, 1921. Serial No. 523,708. 2 Claims. (Cl. 132—52.)

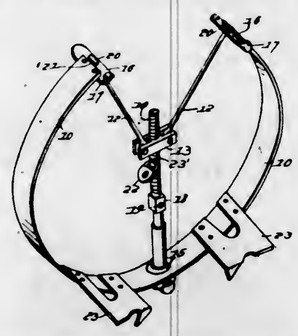
1. As a new article of manufacture, a hair pin constructed of a single length of material bent to provide a pair of legs each having an outwardly bulged medial portion defining a hair receiving space with a restricted hair entering and removing mouth at its forward end, a connection

therebetween at one end, said connection bent to provide a pair of laterally and forwardly directed arms terminating adjacent the bulged portion of the legs to provide a



hair receiving and embracing space at the opposite sides thereof having restricted entering mouths at their forward ends.

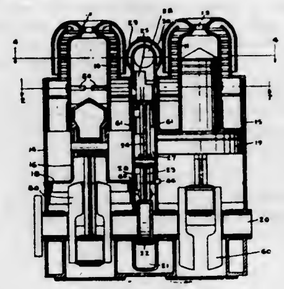
1,429,817. TIRE CHANGER AND CARRIER. ANDREW J. WEST, Andrews, S. C. Filed Apr. 8, 1921. Serial No. 459,520½. 2 Claims. (Cl. 224—29.)



1. A device for the purpose indicated comprising an expansible split band provided with means for attaching the same to a vehicle body, clips constituting ring seats mounted respectively at the extremities of the band and on the outer face of the latter opposite the split portion, radial elements having their extremities pivotally connected with the clips at the extremities of the band, and means for imparting both tensile and strut strains to said radial elements, the clips being formed with inturned lips to overlap the outer surface of the rim to provide contractile strain on the latter in the event that locking of the rim is to be secured by that means rather than by expansible force imparted to the band.

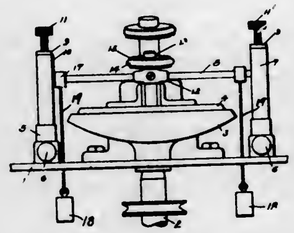
1,429,818. GAS ENGINE. ELLIS J. WOOLF and JAY F. WOOLF, Minneapolis, Minn., assignors to The Woolf Cycle Motor Company, Minneapolis, Minn., a Corporation of Arizona. Filed May 24, 1920. Serial No. 383,733. 13 Claims. (Cl. 123—59.)

1. A two-cycle engine comprising a cylinder casing having a series of annular inlet ports, a casing surrounding said cylinder and providing chambered passageways in communication with said ports, a crank-case chamber in communication with said chambered passageways, a valve chamber, means for admitting fuel mixture into one part of said valve chamber and for admitting atmospheric air into another part of said valve chamber, means for admitting said fuel mixture from the valve chamber into said chambered passageways, means for admitting the air from said



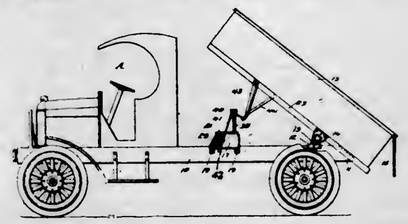
valve chamber into the crank-case chamber, and a valve member movable as a unit in said chamber for controlling the admission of said fuel gas and air.

1,429,819. GRINDING MACHINE. EDMUND WALTER WORTH, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed May 10, 1920. Serial No. 380,093. 4 Claims. (Cl. 51—131.)



1. In a lens grinding machine, the combination with a base and a lower rotatable spindle carried thereby, of a pair of vertically sliding arms supported by the base, a cross member connecting said arms, a second spindle carried by the cross member for cooperation with the first, said second spindle being angularly adjustable with respect to its support, and means for indicating the amount of angular adjustment of said spindle.

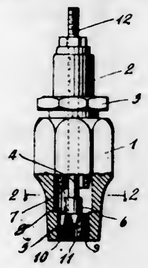
1,429,820. DUMPING-TRUCK. FAUST ZARDINONI, Chicago, Ill., assignor of one-half to Vincenzo Lo Monaco, Chicago, Ill. Filed May 23, 1921. Serial No. 471,709. 2 Claims. (Cl. 798—19.)



1. In a wheeled vehicle having a chassis, of a rearwardly inclined rear end on the chassis, a dumping body

carried by the chassis and mounted for tilting movement from a horizontal loading position to a rear end dumping position against the inclined rear end of the chassis, a bracket extending transversely of the chassis, a vertically movable rack bar carried by said bracket, a cross head carried at the upper end of said rack bar and extending transversely beneath said body, sheaves carried at the opposite ends of said cross head, arms depending from said dumping body, cables extending between the chassis and said arms and trained over said sheaves, and means for operating said rack bar for the actuation of said cables for the tilting of said body to and from normal horizontal leading position on the chassis.

1,429,821. SPARK PLUG. DANIEL A. ABBOTT, Greater Capitol Heights, Md. Filed Sept. 24, 1920. Serial No. 412,502. 3 Claims. (Cl. 123—169.)



1. In a spark plug, the combination, with a shell, and an insulator extending into the shell, of a conductor extending through the insulator, the shell extending beyond the inner end of the insulator, and a piston-like electrode reciprocally and rotatably mounted on the conductor within the extended portion of the shell, the piston being formed with means for effecting rotary action when influenced by moving gases, and being free to move axially and rotate under the influence of gases subjected to a compression stroke.

1,429,822. FURNACE PIPE. HERBERT A. ACER, Medina, N. Y. Filed Jan. 25, 1922. Serial No. 531,669. 1 Claim. (Cl. 137—75.)



A heater pipe for hot-air furnaces formed in sections, each section having double walls, the outer wall at the top of a section being carried laterally inward to the inner wall and the inner wall at the top being carried laterally outward to the outer wall, said upper portions and lower portions of the respective walls having air holes therein in vertical alinement so that the holes at the upper portion of one section will register with the holes in the lower portion of a section above, there being indentations forming inwardly extending individual tongues in the lower portion of the section and a shoulder in the inwardly directed upper portion of the outer wall section adapted to interengage with said tongues for locking two adjacent sections together against longitudinal and transverse movement.

1,429,823. COMBINATION EYEBROW PENCIL. EVANGELINE K. ALLISON, Miami, Ariz. Filed June 16, 1921. Serial No. 478,043. 1 Claim. (Cl. 132—79.)

A device of the character specified comprising a barrel having an eye-brow smoothing brush projecting oppositely from one face thereof and a comb projecting from the opposite face, a grease-stick slidably contained within the

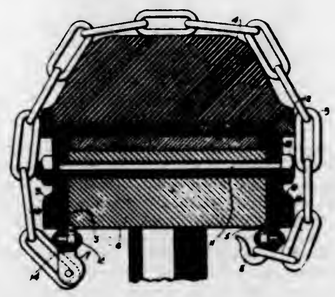


barrel, and closing cap at opposite ends of the barrel and having screw threaded engagement therewith.

1,429,824. PREPARATION FOR PREVENTING ACCUMULATION OF MOISTURE ON TRANSPARENT SURFACES. WILLIAM BULL ATWATER, Charleston, S. C., assignor to Crystal-on Chemical Company, a Corporation of South Carolina. Filed Oct. 27, 1919. Serial No. 333,717. 2 Claims. (Cl. 134—27.)

2. A preparation for preventing the formation of moisture on the exposed surfaces of transparent members comprising a mixture of the following substantial proportions—one gallon of water, one-quarter pound of tobacco substance, and twelve drops of formaldehyde.

1,429,825. NONSKID DEVICE FOR AUTOMOBILE TIRES. REUBEN H. BACHMAN and FRANKLIN HIRAM BACHMAN, Allentown, Pa. Filed June 10, 1919. Serial No. 303,228. 3 Claims. (Cl. 152—2.)

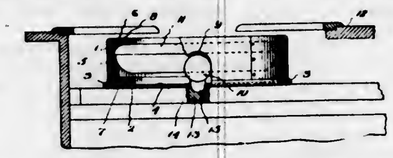


1. A non-skid device of the character described, comprising, in combination, a plurality of flexible non-skid elements transversely disposed across the tread of the tire, annular bands disposed one on each side of the wheel, said bands having recesses opening toward the center of the wheel, and secured to the felloe thereof, a pair of rings one on each side of the wheel, loosely mounted in the recesses of the bands between said bands and said felloe, each of said rings carrying means for securing thereto the opposite ends of said anti-skid elements.

1,429,826. GAS-BURNER ATTACHMENT. INEZ W. BANCKER, Chicago, Ill. Filed Apr. 9, 1921. Serial No. 460,084. 1 Claim. (Cl. 126—214.)

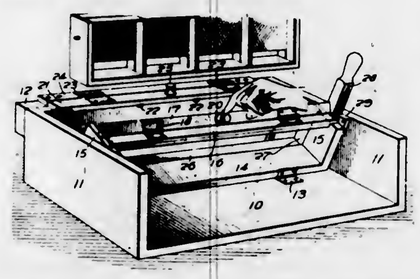
As a new article of manufacture a gas burner attachment comprising a disc shaped base having its peripheral

edge bent over its upper surface, and a cylindrical member having a diameter equal to the diameter of the upper



surface of the disc enclosed by said edge, said member adapted to rest upon the disc and be confined in position by abutting relation with said edge.

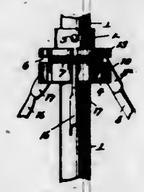
1,429,827. BEEKEEPER'S APPLIANCE. CHARLES F. BAILE, Sykesville, Md. Filed Dec. 15, 1921. Serial No. 522,579. 5 Claims. (Cl. 6—12.)



1. A machine for the purpose described comprising a honey section support and a pair of relatively movable jaws that engage the section on opposite sides of a split therein.

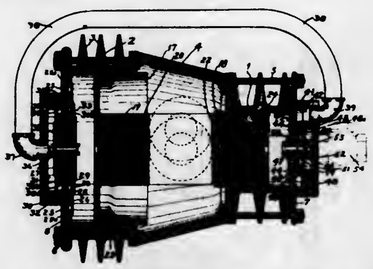
5. A machine for the purpose described comprising a stationarily-supported jaw, a second jaw, a movable support for the second jaw comprising a base and end pieces constructed and arranged to receive a holder for a series of sections, the jaws being situated to engage the tops of the sections on opposite sides of splits therein, and spring hinges for both jaws.

1,429,828. TOP NOTCH AND RUNNER. CHARLES L. BAKER, Lancaster, Pa. Filed Sept. 28, 1921. Serial No. 503,723. 6 Claims. (Cl. 135—28.)



6. A rib-joint device comprising a notch-ring having a series of regularly-spaced vertical rib-receiving slots and an annular pivot-wire slot connecting said rib-receiving slots, whereby an upper and a lower series of radially projecting lugs are formed on said ring, the opposed faces of said lower series of lugs facing on said rib-receiving slots being provided with recesses forming rib-receiving sockets opening into said pivot-wire slot, and the opposed faces of said upper series of lugs facing on said rib-receiving slots being recessed to permit the insertion of ball-end ribs into said rib-receiving sockets.

1,429,829. COMPRESSOR. DEXTER C. BAKER, Oakland, Calif., assignor to Baker-Hansen Manufacturing Company, Oakland, Calif. Filed Oct. 26, 1920. Serial No. 419,714. 2 Claims. (Cl. 230—27.)

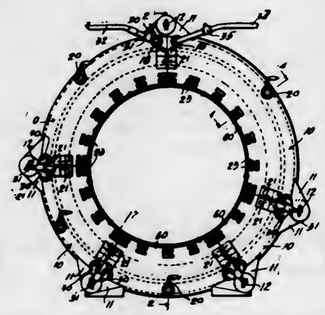


1. In an air compressor, a pair of co-axially arranged cylinders, a pair of rectilinear pistons in said cylinders, said pistons being made as a unitary structure with a connecting web eccentrically positioned relative to the axis of the pistons, and a drive for said pistons comprising an eccentrically mounted rolling crank presented between the parallel inner ends of the pistons transversely of the axis thereof and opposite the said connecting web, one of said pistons having a larger diameter than the other with the said cylinders made correspondingly, the smaller one of said pistons comprising a solid structure and the larger one being a hollow with an axial annular solid block-like structure within its hollow, the diameter of said block-like structure being equal to that of the diameter of the smaller solid piston and arranged co-axially thereof.

1,429,830. STORAGE-BATTERY ELECTROLYTE. RICHARD E. BANKS, Washington, D. C. Filed June 2, 1922. Serial No. 565,446. 4 Claims. (Cl. 204—29.)

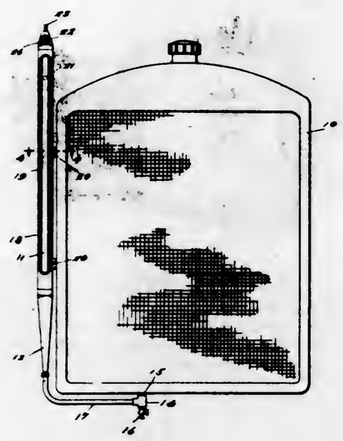
3. A storage battery electrolyte containing approximately the following ingredients:—sulphuric acid of 1.835 specific gravity about 10 gallons; ferric sulfate, about 10 pounds; aluminum sulfate, about 1 pound; copper sulfate, about 1 pound; chlorin water, about 2 ounces; together with a sufficient amount of water to give a specific gravity of about 1.25.

1,429,831. TIRE MOLD. MICHAEL T. BARNEY, Los Angeles, Calif. Filed Jan. 26, 1921. Serial No. 440,014. 14 Claims. (Cl. 18—18.)



1. A tire mold comprising a plurality of sections operable independently or in combination and capable of being arranged in various combinations, means for detachably pivotally connecting adjacent sections, and means independent of said first mentioned means for releasably clamping adjacent sections together.

1,429,832. LIQUID-LEVEL GAUGE. JOHN H. BAUER and WILLIAM F. KENNELL, Stanberry, Mo. Filed June 4, 1921. Serial No. 475,000. 1 Claim. (Cl. 73—54.)



A water gauge for vehicle radiators of the character described comprising a water tube, a tubular casing provided with a pair of vertically disposed opposing elongated slots and being adapted to surround said tube, a plurality of clamps securing said tubular casing to the side of the radiator so that said slots may be viewed from both the rear and front thereof, a funnel shaped member secured at its large end to the lower end of the casing and designed to communicate with said tube, a flexible hose adapted to provide communication between the funnel shaped member and the radiator, a conical shaped member being provided with an opening in its top thereof and having its lower end threadedly secured to the upper end of said casing which is positioned above the upper end of the radiator, a pipe having one end projecting through said opening and being adapted to communicate with said tube at its opposite end thereof, said pipe being exteriorly threaded intermediate of its ends, a supporting member arranged interiorly of said conical shaped member, nuts arranged above and below said support and engaging the threads of the pipe to maintain said pipe in proper position, an extension provided on the projecting end of said pipe and adapted for admitting air to the tube and a float operating in said tube as and for the purpose specified.

1,429,833. BUILDING DOOR. WARREN H. BEALL, Washington, D. C. Filed Oct. 5, 1921. Serial No. 505,596. 15 Claims. (Cl. 20—19.)



12. In a door construction, a pair of doors, and a jamb strip carried by one of the doors and normally lying in the path of movement of the other door and adapted to be shifted to permit free movement of both doors.

1,429,834. PROCESS OF MAKING JUICES, JELLIES, AND JAMS, FROM VEGETABLE SUBSTANCES SUCH AS FRUITS AND VEGETABLES. OTTO BIELMANN, Magdeburg, Germany. Filed July 19, 1920. Serial No. 397,535. 3 Claims. (Cl. 99—11.)

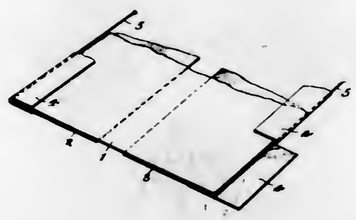
1. The herein described process for the simultaneous production of fruit juices, jellies and marmalade from fruits and similar vegetable constituents which comprises leaching the fruits while contained in different containers of a diffusion battery by causing a sugar solution to flow successively through the containers of the battery, removing volumes of the solution at different intervals from the last container of the battery to obtain jelly and fruit juice respectively, and subsequently removing and mixing the contents of the different containers of the battery to obtain marmalade.

1,429,835. GARMENT HANGER. HERMAN L. BIENER, Brooklyn, N. Y. Filed Apr. 6, 1921. Serial No. 458,924. 1 Claim. (Cl. 211—13.)



As a new article of manufacture, a garment hanger including a supporting member constructed from a length of wire having a tubular non-metallic covering, the opposite ends of which are bent to provide a pair of parallel contiguously arranged shanks, the terminal of one of which extends beyond the other and is bent in hook form with the covering removed, a metallic clip embracing and securing said shanks together, and a tubular non-metallic covering element enclosing said shanks, the clip and the hook terminal.

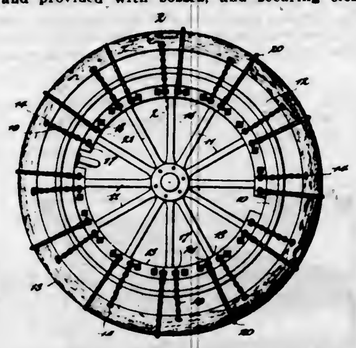
1,429,836. COVER BOARD FOR SHINGLE BUNDLES AND THE LIKE. CHARLES S. BIRD, Walpole, Mass. Filed Sept. 7, 1921. Serial No. 499,037. 2 Claims. (Cl. 206—60.)



1. A binder board for shingle bundles and the like, formed of a sheet of fiber board with two of the opposite marginal sections of the board infolded upon the body of the board; a strand extending along each edge produced by the folds; and a folded strip embracing each of the strands and secured to the board.

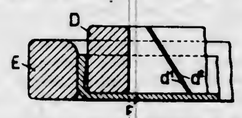
1,429,837. ANTISKID DEVICE FOR VEHICLE TIRES. CHARLES O. BODE, New York, N. Y. Filed Feb. 18, 1921. Serial No. 445,979. 1 Claim. (Cl. 152—16.)

In a device of the class described, the combination with an automobile wheel and tire, of a fabric facing for said tire, clamps adapted to be secured to the spokes of said wheel and provided with bosses, and securing elements



co-operative with said bosses for retaining said facing in place.

1,429,838. SWAGING PRESS. KARL BÖHLE, Essen-on-the-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 3, 1920. Serial No. 428,115. 3 Claims. (Cl. 113—49.)



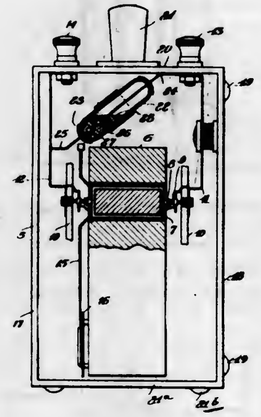
1. A flanging press for the manufacture of sheet metal plates flanged on their outer rim comprising a die having an annular flanging portion and a stamp having a flanging portion adapted to enter said flanging portion of the die in axial direction, one of said flanging portions being rigid and the other being adapted to elastically yield transversely to said axial direction round its whole circumference in the sense of increasing the clearance left between it and the other flanging portion.

1,429,839. CABINET TALKING MACHINE. ROBERT A. BOSWELL, Washington, D. C. Filed Sept. 4, 1917. Serial No. 189,565. 69 Claims. (Cl. 274—2.)



1. In a talking machine, a cabinet, a hinged cover therefor, a tone-arm carried in said cover and pivoted concentrically with the hinge of the cover.

1,429,840. DAMPING DEVICE FOR ELECTRICAL INSTRUMENTS. HENRY B. BROWN, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Nov. 16, 1921. Serial No. 515,735. 6 Claims. (Cl. 171—95.)



1. The combination with a portable electric instrument having actuating means comprising a relatively movable magnetic field and coil, said instrument being adapted for arrangement in one position during operation and in a different position during transportation, of a switch operated automatically by movement of the instrument from operating position to transporting position for short-circuiting said coil and damping the movement of said actuating means during transportation of the instrument.

1,429,841. TITANIUM COMPLEX AND METHOD OF PRODUCING SAME. HENRY H. BUCKMAN, Jacksonville, Fla. Filed Dec. 20, 1920. Serial No. 432,044. 14 Claims. (Cl. 134—58.)

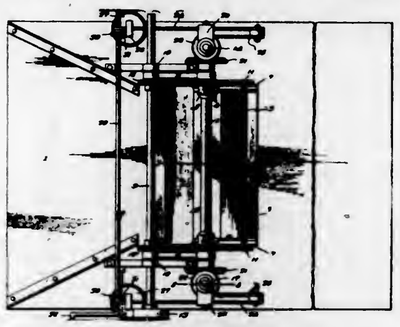
12. In the preparation of composite titanium pigments, those steps which comprise heating simultaneously with sulphuric acid and water under pressure substantially above normal atmosphere, previously finely ground and floated ilmenite and barium sulphate, adding water and further heating under pressure, and subsequently separating, drying and calcining the solid product.

14. As a new article, the hereinbefore described composite titanium pigment, distinguished as being a smooth, fine, white and dense powder, and consisting essentially of hyper-normal-pressure- and hyper-normal-temperature-modified oxy-titanium products of a sulphuric acid treated titaniferous material associated with barium sulphate.

1,429,842. WATER MOTOR. DREWEY A. CARMICHAEL, Americus, Ga. Filed May 16, 1921. Serial No. 470,088. 3 Claims. (Cl. 170—107.)

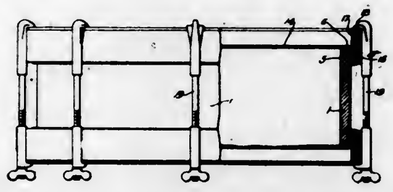
1. An apparatus of the class described comprising a supporting structure, a shaft rotatably mounted therein, a wheel, arms for swingingly connecting the water wheel with the shaft, gearing connecting the water wheel with the shaft, vertical screw shafts hingedly connected at

their lower ends to the supporting structure, nuts on said shafts, means for connecting the nuts with the wheel and



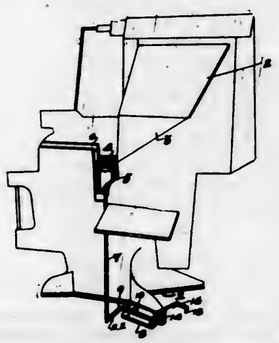
means for rotating the nut by the movement of the wheel when desired.

1,429,843. DRUM AND METHOD OF MAKING THE SAME. WILLIAM CHRISTIAN, Bridgeport, Conn. Filed Sept. 29, 1921. Serial No. 504,093. 4 Claims. (Cl. 84—411.)



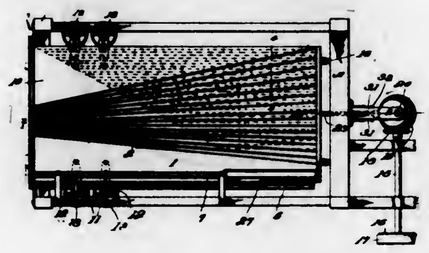
1. The method of making drums which consists in first fastening the marginal portion of drum head material between concentric rings leaving a surplusage of the material within the perimeter of the rings, and subsequently placing the rings upon a drum shell and sliding them down to remove slack from the material and to stretch the same over an end of the shell.

1,429,844. FOOTLIFT TO RAISE THE ASSEMBLING ELEVATOR OF TYPE-CASTING MACHINES. JOHN G. CLARK, Los Angeles, Calif. Filed June 11, 1920. Serial No. 388,177. 2 Claims. (Cl. 74—81.)



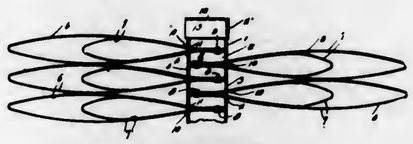
1. The combination with an assembling elevator for type casting machines, of a link extending down from the elevator to adjacent to the floor, a rocker shaft mounted on a support on the floor, a lever arm on the rocker shaft, extending forward therefrom and attached to the lower end of the link, and an upstanding arm on the rocker shaft provided with a toe rest for the foot of the operator.

1,429,845. CONCENTRATOR. GEORGE T. COOLEY, Joplin, Mo. Filed Nov. 19, 1918. Serial No. 263,185. 1 Claim. (Cl. 83—88.)



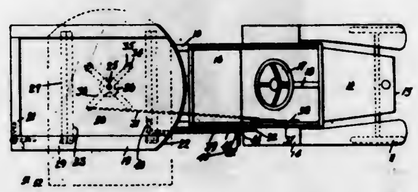
The combination with a frame, of two tables adjustably supported at one end thereon, one having a fan-shaped arrangement of riffles which taper and converge lengthwise of the table, and are of gradually decreasing height down the slope of the table, means at the discharge end for adjusting the tables while in operation, and a single head motion common to both tables comprising a shaft having a horizontally disposed eccentric thereon, with means extending therefrom to one table, and provided with a double cam with abrupt shoulders, and a spring-actuated sliding rod connected with the other table and adapted to be actuated thereby.

1,429,846. SHELVING. CORNELIUS M. COUTTS, Issaquah, Wash. Filed Sept. 29, 1921. Serial No. 504,042. 4 Claims. (Cl. 211—14.)



1. A shelving comprising a channel iron support having slots and elongated openings in its side walls and the slots of one wall disposed in alinement with the openings in the other wall, resilient racks projecting into the elongated openings and resting in the slots.

1,429,847. SIDE-DUMPING VEHICLE. CHARLES A. DAVIDA, New York, N. Y. Filed Aug. 25, 1920. Serial No. 406,000. 4 Claims. (Cl. 298—9.)



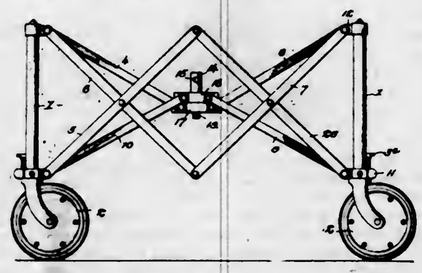
1. In a dumping vehicle, in combination with the chassis thereof, a cross frame rigidly carried by the chassis, a supplemental frame pivotally mounted at one end of the cross frame, a body supported by said cross frame and supplemental frame, means for moving the body on said supplemental frame and means for tilting the supplemental frame about its pivotal point to move the body to dumping position.

1,429,848. LEAD COMPASS. ROBERT COCHRAN DICKSON, Medan, Sumatra, Dutch East Indies. Filed Jan. 5, 1922. Serial No. 527,165. 7 Claims. (Cl. 33—152.)



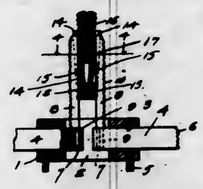
1. In a lead compass a leg forming a pencilholder, a second leg provided with a needle point, a pivotal connection between the legs so as to enable the needle point to be swung from the operation position in a position close against the holder and a ring slidable over the holder and adapted to receive the needle point in the latter position.

1,429,849. LOCK FOR CHURCH TRUCKS. ARTHUR H. DOLGE, Westport, Conn. Filed Sept. 29, 1921. Serial No. 504,067. 3 Claims. (Cl. 280—35.)



1. In a lock for church trucks, the combination of an upper element, a lower element upon which the upper element is adapted to bear at certain times, an opening arranged in the lower element, a standard secured in and adapted to turn independently with respect to the upper element, and brace rods secured to the upper and lower elements and also secured to the posts of the truck.

1,429,850. ADJUSTABLE TAP AND DIE. THOMAS J. DOWD, New York, N. Y. Filed Apr. 11, 1921. Serial No. 460,154. 9 Claims. (Cl. 10—142.)

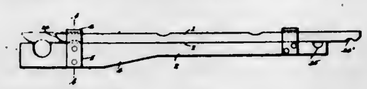


9. An adjustable tap and die comprising a holder, die cutters adjustably mounted on said holder, tap cutters carried by the die cutters, an expander body having grooves to receive the tap cutters, bifurcated fingers formed on said body and receiving the tap cutters therebetween, an adjusting screw threaded to and between said fingers and engaging the tap cutters for forcing the latter outwardly, and set screws for expanding the bifurcated portions of the fingers against the tap cutters.

1,429,851. TANNING PROCESS. LORENZO DUFOUR and GUSTAVO DUFOUR, Genoa, Italy. Filed Mar. 28, 1921. Serial No. 456,198. 2 Claims. (Cl. 149—4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

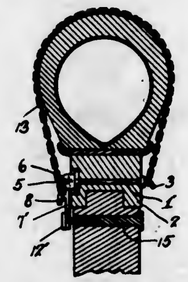
1. A process of tanning which comprises first cleaning the hides in a solution impregnated with gaseous sulphurous anhydride to remove any adhering lime and then transferring the hides to tanning vats and treating them with tanning liquor containing sulphurous anhydride.

1,429,852. TOOL. JOHN L. DYER, Balboa, and HENRY T. MACNEIL, Ancon, Canal Zone, Panama. Filed Mar. 23, 1921. Serial No. 454,717. 5 Claims. (Cl. 81—3.)



1. A tool of the character described, comprising a pair of superimposed elongated parallel members mounted for axial sliding movement relative to each other, and having coacting recesses in their meeting faces adapted to receive a fuse.

1,429,853. AUTOMOBILE CHAIN. JOHN CHARLES EDWARDS, Moundsville, W. Va. Filed Apr. 15, 1922. Serial No. 552,950. 3 Claims. (Cl. 152—14.)



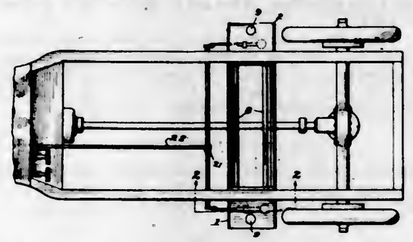
3. Anti-skid means for a vehicle wheel comprising a plurality of cross chains, a plurality of rods passing through the rim of the wheel, a stationary hook on one end of the rod for receiving one end of the cross chain, a nut on the other end of each rod, a hook carrying member pivotally secured to the nut, the hook engaging the other end of a chain, a plurality of set screws carried by the wheel and means associated with each pivoted member for engaging the head of a set screw to hold the said member with its hook in holding position.

1,429,854. ATTACHMENT FOR SPECTACLES. RICHARD P. ELMORE, Sulphur, Okla. Filed Aug. 9, 1921. Serial No. 491,001. 2 Claims. (Cl. 88—41.)



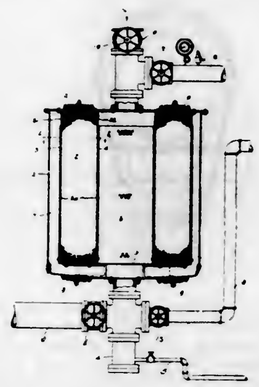
1. An attachment for spectacles comprising a block, shaped to engage the temple joint of a spectacle, a clip for detachably holding the block in place, an auxiliary lens, and a link pivotally connecting the block to the lens.

1,429,855. SANDING DEVICE FOR AUTOMOBILES. LARS ENGSTROM, Seattle, Wash. Filed May 25, 1922. Serial No. 563,577. 5 Claims. (Cl. 291—28.)



3. A sanding device for automobiles and the like, including receptacles connected for similar movement, means for supporting the receptacles in slidable cooperation with the chassis, a valve for each receptacle, means for simultaneously operating the valves in the actuation of the brake pedal, and means on the receptacles for spreading the material delivered therefrom.

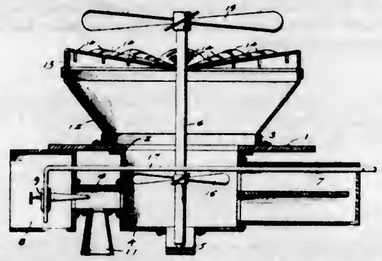
1,429,856. ADSORPTION APPARATUS FOR SOLVENT RECOVERY, ETC. ROLLAND R. ETTER, East Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Jan. 7, 1921. Serial No. 435,573. 10 Claims. (Cl. 252.)



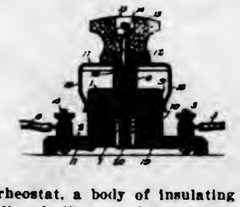
2. In apparatus for solvent recovery, the combination of an annular chamber having approximately concentrically disposed perforate walls, solid adsorbent material filling such chambers, and connections whereby vapor-laden gases and a heating medium may be passed transversely through said chamber thus filled, from the exterior to the open central space surrounded by said chamber or vice versa as desired.

1,429,857. CRUDE-OIL BURNER. CHARLES B. EYER, Cleveland, Ohio. Filed June 28, 1921. Serial No. 481,043. 6 Claims. (Cl. 158—53.)

6. A fuel burner of the character specified comprising a burner cap, an expanding and mixing chamber in communication with the burner and having a lateral extension, a diametrically disposed casing, a valve mechanism within said casing for controlling the supply of fuel, a mixing chamber forming connecting means between said casing and the expanding and mixing chamber, a horn connected with the mixing chamber, a fan within the expanding and mixing chamber, a second fan beyond the burner cap and connected with the fan in the expanding and mixing chamber and serving to distribute and spread the heat, and a fuel feed pipe passing through the expanding and mixing chamber and the extension thereof and having connection with the said valve mechanism.



1,429,858. RHEOSTAT. ERNEST CHARLES FASOLDT, Albany, N. Y., assignor of two-thirds to Louis R. Krug, Albany, N. Y. Filed Apr. 7, 1922. Serial No. 550,370. 5 Claims. (Cl. 219—56.)



1. In a rheostat, a body of insulating material, a resistance coil spirally wound around the body, an internally threaded sleeve in the body, a screw movable in the sleeve, a plate fixed to turn with the screw, spring fingers integral with the plate contacting with the coil to delicately regulate current flow, and a handle of insulating material resting on the plate and secured to the screw for turning the same.

1,429,859. BOLT. CHARLES FASSETT, St. Johnsbury, Vt. Filed Mar. 21, 1922. Serial No. 545,459. 7 Claims. (Cl. 85—3.)



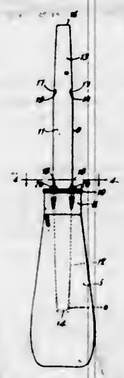
1. A device of the character described comprising a longitudinally slotted bolt stem, a head member slidable in the slot, means for frictionally retaining said head in the slot, and means slidable through said slot for extending the head.

1,429,860. SNAP SWITCH. NICHOLAS FEINEN, Buffalo, N. Y. Filed June 25, 1921. Serial No. 480,413. 2 Claims. (Cl. 200—167.)



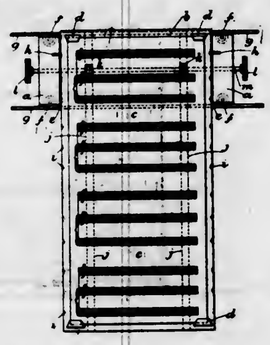
1. A switch of the class described comprising a base, contacts thereon, a hollow member rotatably supported by the base, a switch blade connected with the hollow member and engaging the contacts, a cap member connected with the hollow member and having an opening therein, a stationary member passing through the hollow shaft and an indicator disc connected with the stationary member and located within the cap.

1,429,861. SCREW DRIVER. CARL M. FLODIN, East Boston, Mass. Filed Sept. 1, 1921. Serial No. 497,629. 3 Claims. (Cl. 145—64.)



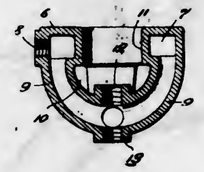
3. A tool having, in combination, a handle provided with a longitudinal recess therein, a blade located within said recess and projecting outwardly therefrom, said blade having a work engaging tip at each extremity and being provided with a plurality of sets of oppositely disposed grooves formed in the opposite edges thereof and having an enlarged intermediate portion between said sets of grooves thereby forming projecting shoulders adjacent to said grooves, a locking member rotatably mounted upon said handle surrounding said blade and adapted to be rotated into the grooves of said blade to fasten said blade within said handle, said locking member being provided with a plurality of segmental slots formed therein and means extending through said slots into said handle adapted to fasten said locking member to said handle and limit the rotary movement of said locking member thereon, said locking member also constituting a stop to engage said shoulders and thereby limit the extent to which each end of said blade may be inserted within said handle.

1,429,862. TYPEWRITING MACHINE FOR MUSIC. LUIGI FORTONI, London, England. Filed Feb. 3, 1920. Serial No. 355,928. 7 Claims. (Cl. 197—8.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



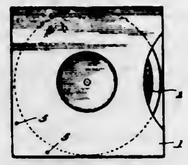
1. In a machine for typewriting music, the combination of printing levers and revoluble polygonal blocks applied to all of the levers and carrying musical note characters for printing above and below the stave or directly on the stave and also for alphabetical printing whereby music notes, words of a song, or ordinary printed matter may be typed by the one machine.

1,429,863. WATER-HEATING DRUM. ALFRED T. FOWLES, Dallas, Tex. Filed June 13, 1919. Serial No. 304,042. 1 Claim. (Cl. 122—20.)



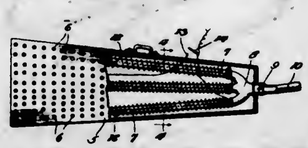
A water heating drum, comprising a hollow ring-like top having an outlet in its outer periphery, a plural armed hollow spider depending from the top, each arm of the spider being in communication with the top, and upper and lower threaded nipples on the spider at its center.

1,429,864. RECORD BINDER. ROBERT H. FRASER, Battle Creek, Mich. Filed June 7, 1921. Serial No. 475,757. 1 Claim. (Cl. 129—20.)



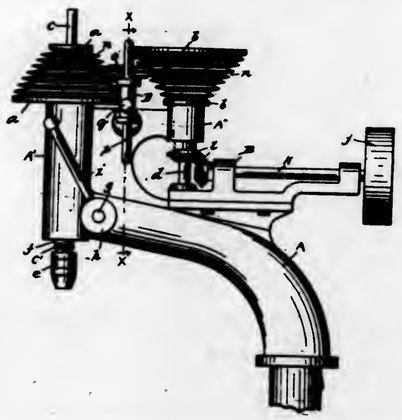
A holder for phonographic records comprising a base, a number of record-receiving envelopes, said envelopes and base having registering openings, said openings being arranged at one corner of each envelope, a lacing passing through the opening for hingedly connecting the parts together and spacer plates having openings therein registering with the openings in the envelopes, one of said spacer plates being arranged to receive an index.

1,429,865. PRESSING MACHINE. SAM FRIEDMAN, Atlanta, Ga. Filed Apr. 8, 1920. Serial No. 372,234. 1 Claim. (Cl. 219—19.)



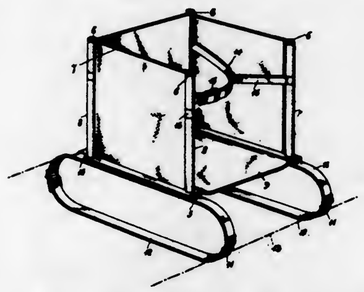
The combination with a hollow movable buck of a clothes pressing machine, of heating means therefor comprising an inlet pipe section mounted in one end wall of the buck, a plurality of pipes connected with and independently supplied with water through said section, said pipes relatively diverging from each other from their connection with the inlet section and being in substantially the same horizontal plane, the lower portion of each pipe having spaced perforations, an electrical heating coil arranged about each pipe from end to end, and means for energizing said coils, whereby to convert the water in each pipe into steam and permit the escape of the steam through such perforations.

1,429,866. DRILL PRESS. JAMES D. GIBBS, Louisville, Ky. Filed Jan. 29, 1921. Serial No. 440,968. 2 Claims. (Cl. 74—26.)



1. A variable speed mechanism comprising two reversely placed multi-grooved cone wheels journaled on parallel axes, a member mounted to have reciprocating motion perpendicular to the said axes, said member carrying a part extending parallel to said axes, a bracket arm slidably carried by said part and having a suitable operating handle, an idle wheel rotatably carried by said bracket arm, and adapted to engage the grooves of said cone wheels, and spring means acting on said slidable member to press the idle wheel towards the cone wheels.

1,429,867. REMOVABLE CHAIR ATTACHMENT. AMY R. GOLDSMITH, Portland, Oreg. Filed Dec. 17, 1921. Serial No. 523,102. 4 Claims. (Cl. 155—131.)



1. In a chair attachment of the class specified, a rigid base, a flexible body supported on the base and having a closed seat, upright sides and back, the body being fully open at the front, and flexible attaching straps extending longitudinally on opposite sides of the base and beyond the front and rear portions of said base and having securing straps connected to the ends thereof for holding the chair on and fastening it around a support.

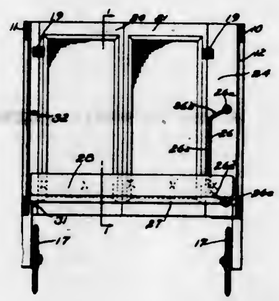
1,429,868. DRAFT EQUALIZER. CLARKE L. GORDON, Stavely, Alberta, Canada. Filed Sept. 22, 1921. Serial No. 502,424. 2 Claims. (Cl. 54—1.)

1. In combination with a hame; of a draft bar adapted to be arranged at the side of the draft animal, said bar having its forward end arcuated inwardly toward the hame for connection therewith whereby the body portion of the bar will be arranged in spaced relation to the



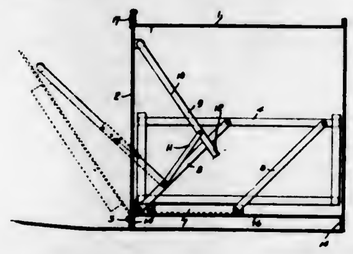
animal, an equalizer link pivotally connected to the rear end of said bar, a trace having connection with the link between its ends, and a second trace having connection with the lower end of said link.

1,429,869. FOLDING CRIB. ERNEST E. GOWELL, South Portland, Me., assignor to The E. T. Burrowes Company, Portland, Me., a Corporation of Maine. Filed Aug. 25, 1919. Serial No. 319,619. 4 Claims. (Cl. 5—58.)



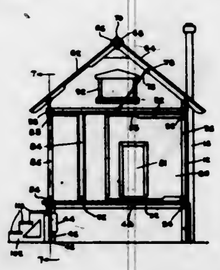
1. A combined crib and coop, comprising end members and side members hinged together for folding, one of said side members equipped at its ends with guides consisting in vertically extending portions and diagonally extending portions at the top and bottom of said vertical portions, and a mattress frame mounted to slide and swing on said guides and adapted to be supported at one side, at either of two elevations thereby and the other of said side members serving as a lateral abutment for the mattress frame when horizontal and preventing casual displacement thereof in the upper one of its two elevations.

1,429,870. OVEN. ARVIN GUSSA, Roswell, N. Mex. Filed June 11, 1921. Serial No. 476,782. 6 Claims. (Cl. 126—340.)



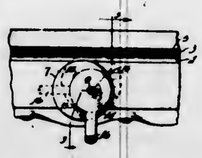
1. In an apparatus of the character described, an oven, a tray supporting frame in the oven, a door hinged to the floor of the oven and adapted to swing downwardly and outwardly, brackets secured to the floor of the oven, levers pivotally connected at one end to the brackets and at their other ends to the frame, jointed arms pivotally connected to the free edge of the door and to the intermediate portions of the levers, whereby opening of the door lifts the frame out of the oven and seats the same on the door.

1,429,871. COLLAPSIBLE TOY HOUSE. GUNIL J. HANSON, Minneapolis, Minn. Filed Apr. 14, 1921. Serial No. 461,182. 5 Claims. (Cl. 46—37.)



1. A collapsible toy house comprising a rear wall member, two side wall members, means associated with said members for detachably holding them together at their corners, a ceiling member adapted to be slid in horizontal grooves carried by said side members, a roof member, and hooks for detachably securing said roof member and said ceiling member together, whereby both of them are held in place.

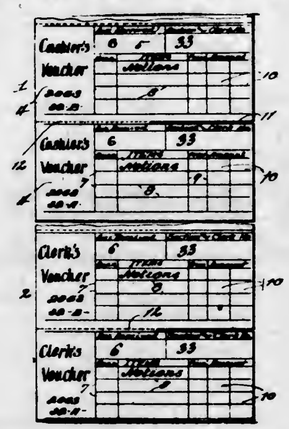
1,429,872. WINDOW SILENCER. HANS P. HANSON, Cambridge, Minn. Filed May 12, 1921. Serial No. 468,876. 1 Claim. (Cl. 292—232.)



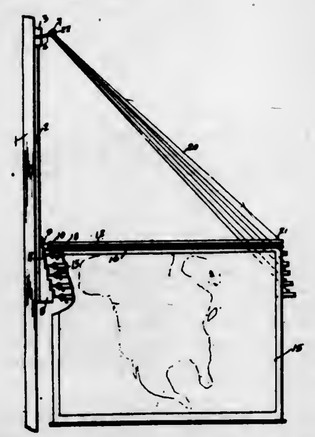
The combination with a window sill having a slot therein, a window frame slidably disposed in the slot, and a glass carried by said frame, of a screw carried by said sill, a resilient disk eccentrically mounted on said screw, plates concentrically mounted on said screw and being disposed on both sides of said disk, said plates having integral prongs adapted to engage with said disk, and a handle carried by one of said plates.

1,429,873. CASH-SALES BOOK. GEORGE HARTRICK, Oak Park, Ill., assignor to Carson, Pirie, Scott and Company, Chicago, Ill. Filed Nov. 27, 1918. Serial No. 264,388. 2 Claims. (Cl. 282—23.)

1. A sales book comprising in combination, a plurality of sets of leaves each set comprising multiple leaves, the leaves of each set being divided by scorings permitting easy detachment into a plurality of slips, the slips of each leaf of the set being of corresponding number, and corresponding slips of each leaf of the set being arranged to relate to one sales transaction, the different slips being provided with rulings and legends indicating suitable data to be inserted, the slips of each set also having voucher and check designations and being serially marked successively from the bottom to the top of each sheet, a portion of the back of the uppermost slips of each set being coated with transfer material.



1,429,874. MAP HOLDER. WILLIAM E. HASKELL, Los Angeles, Calif. Filed Jan. 11, 1921. Serial No. 436,503. 2 Claims. (Cl. 40—128.)

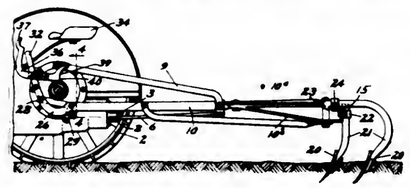


1. A suspended sheet holder comprising a supporting block, brackets fixed thereto and having vertically spaced projecting ends, arms having split ends received over said bracket ends, pivot pins extending through said split ends of the arms and through said bracket ends, means for detachably connecting the sheets to said arms, and swinging suspension wires for the arms.

1,429,875. CULTIVATOR ATTACHMENT FOR TRACTORS. OTTO F. HEER, Narod, Calif. Filed June 20, 1921. Serial No. 478,989. 3 Claims. (Cl. 97—34.)

1. The combination with a tractor having a seat above the rear axle housing and a connecting plate directly below the seat, of a transverse bar, a frame extending forwardly from the bar a considerable distance and rigidly secured to the connecting plate, braces extending forwardly and upwardly from the transverse bar and rigidly connected to the axle housing, a rock frame pivotally connected to

the transverse bar and having side bars extending forwardly and backwardly, the forward ends of the side bars extending under the axle housing, the rear ends of the side bars being adapted to carry a cultivator or the like, means for adjusting the contacts between the forward ends of the side bars and the axle housing to limit the downward

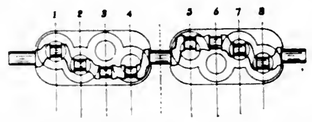


swing of the cultivator, an arm extending upwardly and forwardly from one side bar in front of the axle housing, and a latch pivotally connected to the arm and adapted to engage the axle housing, so that when the arm is forced forwardly the cultivator is raised and the latch holds the cultivator in its elevated position.

1,429,876. COLLOIDAL SOLUTION AND METHOD OF PREPARING SAME. HUGO HEMELMANN, Hanover, Germany. Filed Oct. 1, 1919. Serial No. 327,826. 10 Claims. (Cl. 252.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

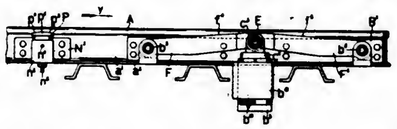
1. The herein described process, which consists in treating finely divided matter with cherry gum and a dispersing medium.

1,429,877. HIGH-POWERED MULTICYLINDER INTERNAL-COMBUSTION ENGINE. JOHN H. HEUSER, Morse Bluff, Nebr., assignor of one-half to Emil E. Wolf, Morse Bluff, Nebr. Filed Dec. 29, 1919. Serial No. 347,994. 2 Claims. (Cl. 123—54.)



1. In an internal combustion engine, the combination of a cylinder block, comprising a plurality of vertical cylinders, the number of which is a multiple of four, said cylinders being arranged in staggered relation in said cylinder-block, a crank shaft provided with a separate crank for each cylinder the cranks being arranged in pairs and the cranks of each pair being angularly displaced 45° and serving adjacent cylinders.

1,429,878. RECORDING DEVICE FOR RAILWAYS. HEINRICH HEYN, Datteln, and FRIEDRICH ZIMMERMANN, Essen, Germany, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Feb. 14, 1921. Serial No. 444,864. 8 Claims. (Cl. 234—12.5.)



2. A recording device for railways comprising two electric contact devices positioned adjacent the track rails and adapted to be actuated by different axle pressures of the cars passing over the track, a recording device embodying an intermittently rotatable drum and recording members displaceable by a clock mechanism longitudinally of said drum, and electrical circuits including said contact devices and said recording means whereby there will be recorded upon said drum the number, running direction, axle pressure and time of the axles travelling across said track.

1,429,879. CORE BINDER. GEORGE B. HILL, Indianapolis, Ind., assignor to American Hominy Company, Indianapolis, Ind., a Corporation of New Jersey. Filed Sept. 15, 1919. Serial No. 324,013. 4 Claims. (Cl. 22—188.)

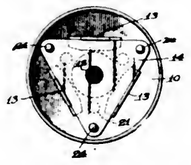
4. A core binder comprising dry partially gelatinized corn flour, the proteid matter in which is finely divided and has a relatively large surface area.

1,429,880. CREASING IRON. FRED GEORGE HOFMANN, New York, N. Y. Filed Apr. 2, 1921. Serial No. 458,123. 5 Claims. (Cl. 219—21.)



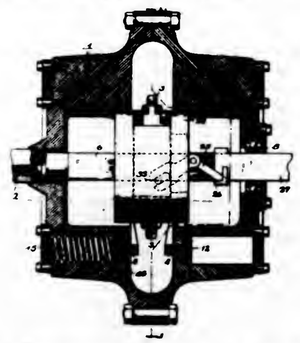
1. A creasing iron, including a shank terminating in an edge, and a blade movably secured to said shank and adjacent the edge thereof.

1,429,881. PIVOT. CHARLES J. HOWE, Detroit, Mich. Filed Mar. 9, 1921. Serial No. 450,830. 3 Claims. (Cl. 296—92.)



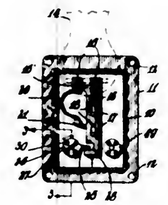
1. A pivot construction comprising a ratchet member having a series of depressions therein at equal radial distances from the center and a co-operating triangular spring pawl having elevated portions near each corner adapted to engage depressions in the ratchet member at points substantially equi-distant from each other, and means for adjusting the tension of the spring pawl.

1,429,882. TRANSMISSION FOR AUTOMOBILES. JOHN E. JOHNSON, De Kalb, Ill. Filed Dec. 3, 1920. Serial No. 427,969. 19 Claims. (Cl. 192—52.)



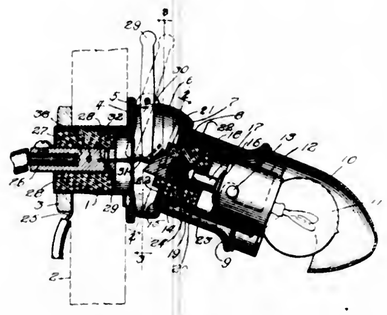
1. In a transmission for connecting a pair of coaxially rotatable members, an arm extending radially of one member, and two spring pressed means carried by the other member and arranged for frictionally engaging the said arm when between the said means while normally permitting the arm to pass between the said means.

1,429,883. PADLOCK. JOHN KACZANOWSKI, New York, N. Y. Filed Apr. 18, 1922. Serial No. 554,851. 4 Claims. (Cl. 70—115.)



3. A lock comprising a casing, a bolt, a key-engageable spindle rotatably mounted in said casing and adapted to operate said bolt, disk fixed on said spindle and having a series of hollow bosses thereon spaced around the spindle and extending parallel thereto, spring-pressed pins guided in said bosses and held against rotation by a fixed part of the casing, the front wall of the casing having openings therein registering with the said pins when the lock-bolt is in operative position.

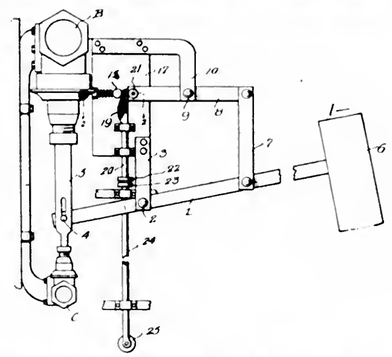
1,429,884. INSTRUMENT-BOARD LAMP. THOMAS J. KERWIN, Chicago, Ill., assignor to Edmunds & Jones Corporation, a Corporation of New York. Filed July 30, 1921. Serial No. 488,556. 18 Claims. (Cl. 240—7.)



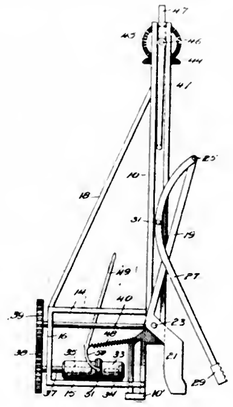
1. In a lamp socket, a pair of outer shells arranged to extend in continuation of each other and equipped with relatively overlapping flanges, and an inner lamp-receiving shell having one end clenched over and housing the edges of both of said flanges.

1,429,885. AUTOMATIC TRAIN STOP. CLARENCE A. KISSEL, Detroit, Mich. Filed Feb. 20, 1922. Serial No. 538,067. 6 Claims. (Cl. 246—186.)

4. In an automatic train stop, the combination with the control mechanism of a locomotive, of a pivotally mounted weighted lever, a second pivotally mounted lever connected thereto, means associated with said second pivotally mounted lever for restraining said weighted lever from movement, and means for releasing said restraining means.



1,429,886. MACHINE WRENCH. RUDOLPH KLEIN, Fults, and GEORGE B. RITZEL, Valmeyer, Ill. Filed Sept. 13, 1921. Serial No. 500,308. 2 Claims. (Cl. 81—56.)

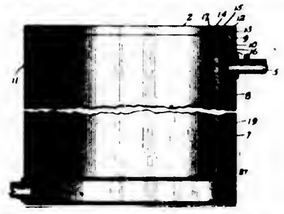


1. In a machine wrench a vertically disposed frame having its lower portion adapted to extend over the tread of a rail and to oppose the web and base of the rail, an auxiliary frame projecting outwardly from that portion of the vertical frame opposing the web and base of the rail, a nut removing element carried by the auxiliary frame, operating means for said element mounted on the said frames, clamping elements pivotally connected to the lower portion of the vertical frame and having foot portions adapted to engage the rail on that side of the latter opposite the side to which the vertical frame is positioned, and levers pivotally connected to the upper ends of the clamping elements and to said vertical frame at a point above the pivots of said clamping elements.

1,429,887. ICE-CREAM-STORAGE APPARATUS. CARL A. KULENKAMPFF, New York, N. Y. Filed Apr. 13, 1921. Serial No. 461,153. 2 Claims. (Cl. 220—9.)

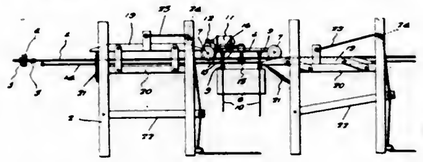
2. In an ice cream storage apparatus, a receptacle comprising an outer casing, an inner casing spaced there-

from, a ring secured to said outer casing and having an inwardly extending flange, a second ring fitting flatwise against said flange and provided with an inwardly ex-



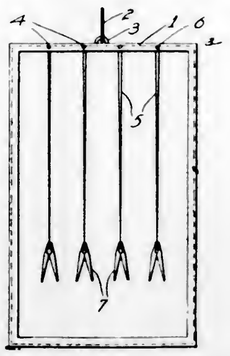
tending flange projecting within the first mentioned ring, the flange of the second mentioned ring being rigidly secured to said inner casing and clamping screws for clamping said rings rigidly together.

1,429,888. TELPHERAGE SYSTEM. JAMES LAMB, Canton, Ill. Filed Apr. 12, 1922. Serial No. 551,932. 2 Claims. (Cl. 104—149.)



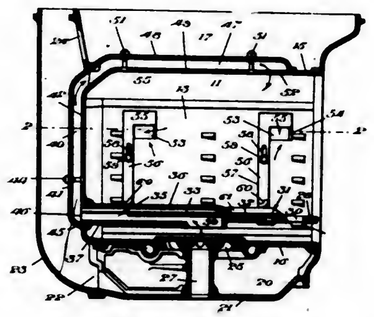
1. An apparatus of the class described comprising a track, a vehicle having its wheels engaging the track, a motor for propelling the vehicle, a trolley wire, a trolley wheel engaging the same and having connections with the motor, a switch in said connections, a hinged member carrying part of the switch, means located along the track for raising such member to open the switch, the frictional engagement between such means and the movable member also acting as brake means.

1,429,889. DEVELOPING BASKET. GEORGE B. LAMBERT, Huntingdon, Tenn. Filed Dec. 17, 1920. Serial No. 431,386. 1 Claim. (Cl. 95—100.)



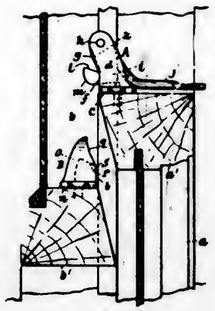
A developing basket for photographic films, the films being doubled at their central points; comprising an open rectangular frame; a plurality of transverse bars across the top of the frame adapted to support the doubled films; and releasable weights for grasping the lower double ends of the films.

1,429,890. COMBINATION COAL AND GAS OVEN. HENRY LANGE, Quincy, Ill. Filed Apr. 19, 1921. Serial No. 462,578. 7 Claims. (Cl. 126—36.)



1. An oven, a burner at the bottom thereof, said oven having a flue for conducting products of combustion from one point to another point, and a flue member removably supported in the oven for conducting products of combustion from over the burner to said flue, said member extending over the burner ad having a detachable connection with said flue, and said member being removable from the oven so as to leave no obstruction in the oven over the bottom thereof.

1,429,891. SASH LOCK. WILLIAM A. LAUFER and ANDREW KUFTA, Paterson, N. J. Filed June 15, 1921. Serial No. 477,637. 1 Claim. (Cl. 292—241.)
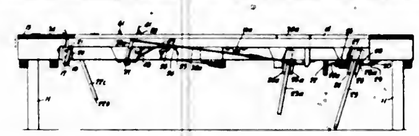


A sash-lock including, in combination, a pair of members adapted to be respectively secured on the top surfaces of the meeting rails of two sashes and arranged to face each other and form a narrow space between them when said rails face each other, a hook pendently pivoted in the relatively inner member and having a V-shaped hook notch normally in substantially vertical coincidence with its pivot and in substantial coincidence at its apex with said space when said members are so arranged, the other member having an inwardly projecting catch shoulder engaged by said hook when said members are so arranged.

1,429,892. COMBINED WAGON AND AUTOMOBILE DUMP. FRANK J. LEECH, Ottawa, and WILLIAM H. MYERS, Utica, Ill. Filed July 16, 1920. Serial No. 396,728. 3 Claims. (Cl. 214—49.)

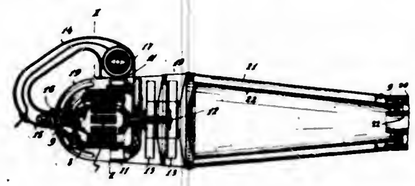
1. A structure of the class described including a tiltable dumping device onto which a vehicle may be run to dump with the tilting of said device, and brake means

therefor comprising a depending element pivotally secured at its uppr end to said tilting device, pivotally mounted braking elements between which the first-men-



tioned element has guided movement, and optionally operable means to cause said second-mentioned braking elements to have braking engagement with the first element.

1,429,893. VACUUM CLEANING AND DUSTING APPARATUS. GUSTAV OSCAR LEHMANN, Berlin, Germany. Filed May 18, 1922. Serial No. 562,014. 1 Claim. (Cl. 15—16.)
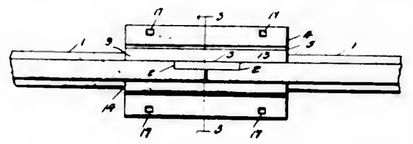


A portable vacuum dusting and cleaning apparatus comprising an electromotor, a fan, a dust bag, a casing and a handle for manipulating the appliance, characterized in that the handle is fixed directly to the frame of the motor, spanning an arc of about 90 degrees, and having one end fixed to the frame approximately in line with the motor axis and the other end abutting against the frame radially near the center of gravity of the appliance.

1,429,894. PNEUMATIC WHEEL FOR VEHICLES. GEORGES LENTZ, deceased, late of Pontoise, France, by Paul Denizot, administrator, Pontoise, France. Filed Mar. 31, 1921. Serial No. 457,486. 2 Claims. (Cl. 152—10.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



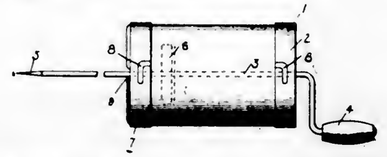
1. A pneumatic vehicle having a hub, concave disks connected thereto, the rounded peripheries of said disks arranged to approach each other, outward extensions located in parallelism on the disks, a tread band loosely mounted between said extensions, said tread band having a series of apertures, bolts carried by the extensions and extending through said apertures, a floating rim positioned between the disks, and an air chamber interposed between said rim and the rounded peripheries of the disks.

1,429,895. FRICTIONLESS RAIL JOINT. ONIS J. LENTZ, Oakland, Calif. Filed Sept. 12, 1921. Serial No. 500,009. 4 Claims. (Cl. 238—200.)



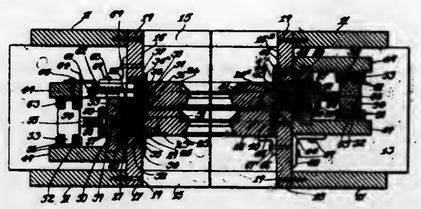
1. In a rail joint, a base plate for receiving and supporting the abutting rail ends and provided in its upper side with a longitudinal groove which inclines upwardly and outwardly and a fish plate having a flange at its lower edge inclined inwardly and downwardly to snugly fit the upwardly and outwardly inclined longitudinal groove of the base plate to form interlocking connection therewith.

1,429,896. VEGETABLE SLICER. WILLIAM R. MCCLURE, Chicago, Ill. Filed Apr. 18, 1922. Serial No. 554,643. 2 Claims. (Cl. 146—11.)



1. A device of the class described comprising a container having one end open, a cap for covering said end, cutters carried by the cap, a spindle passing through the container and having a pointed end so that it can be passed through the article to be cut, a pressure member on the spindle for pressing the article against the cutters and a handle on the extended end of said spindle.

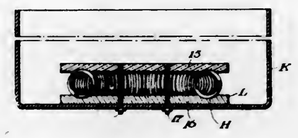
1,429,897. WINDOW. DANIEL A. MACASKILL, Brooklyn, N. Y., assignor of one-third to Joseph A. Izzo and one-third to Angelo Pacelli, both of Brooklyn, N. Y. Filed Jan. 3, 1921. Serial No. 434,557. 6 Claims. (Cl. 20—11.)



1. In a window structure, a frame comprising a pair of parallel, vertical, spaced apart strips; a sash slidable in said frame; a counterbalance operatively connected to said sash, and vertically movable in said frame; and means for slidably receiving and guiding one side of said sash and the counterbalance therefor, comprising a pair of

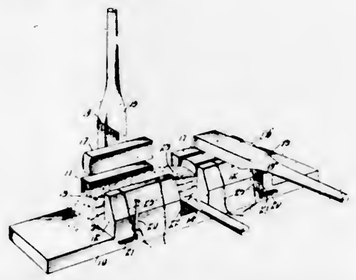
jamb forming strips, each member thereof connected to one of the parallel vertical strips and extending toward, but spaced apart from the other member of the pair to form a groove for slidably receiving a side of said sash, and means straddling the rear of said groove and connecting the respective jamb forming strips and maintaining the side of the sash and the counterbalance in parallel operative relation; the sash, the counterbalance and the means for slidably receiving the same being removable as a unit from the frame.

1,429,898. ELECTRIC HEATER. BARNETT WRIGHT MACY, Jacksonville, Fla., assignor, by mesne assignments, to Electric Heating Corporation, a Corporation of Florida. Filed Nov. 6, 1920. Serial No. 422,224. 2 Claims. (Cl. 219—44.)



1. An electric heater comprising, a vessel, an insulator within the vessel and comprising an upper disc and a lower disc having their confronting faces formed at corresponding points with annular grooves, a resistance coil interposed between the discs and within said grooves, and means for securing one of the discs to the vessel and for securing the other disc in clamping engagement with respect to said coil.

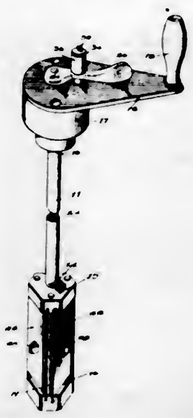
1,429,899. METHOD OF AND APPARATUS FOR SAMPLING COTTON. WILLIAM DUNCAN MALLORY, Memphis, Tenn. Filed Nov. 1, 1919. Serial No. 335,221. 11 Claims. (Cl. 73—21.)



1. The method of sampling cotton consisting in removing samples from various portions of the cotton entering into a merchantable bale, collocating the samples into a miniature bale, and providing means for identifying the samples and the portions of the merchantable bale from which the samples were removed.

1,429,900. CLEANER FOR THE CASTING POTS OR POT WELLS OF LINOTYPE AND INTERTYPE MACHINES. JOHN M. PEIFFER, Bloomington, Ill., assignor of one-half to Elmer J. German, Normal, Ill. Filed Feb. 2, 1922. Serial No. 533,580. 9 Claims. (Cl. 15—104.02.)

1. A casting pot scraper and cleaner including a stem having a handle at one end, and a scraping head at the opposite end of the stem having a series of tangentially shiftable blades normally held in retracted position and



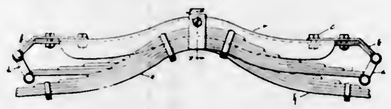
loosely guided within the head, and means for shifting the blades tangentially beyond the head, including an element on which the blades have limited rotative movement.

1,429,901. DEMOUNTABLE RIM. JOHN T. CLARK, Provo, Utah. Filed May 10, 1922. Serial No. 559,840. 1 Claim. (Cl. 301—30.)



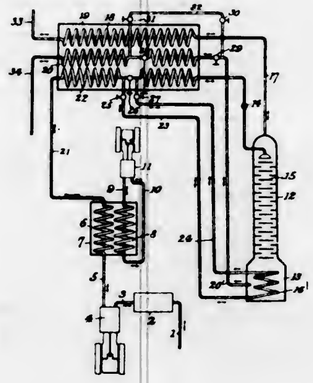
In a demountable rim the combination of two annular rings having coacting tire engaging portions, a sectioned rim with outwardly extended flanges on each edge within said rings; rivets near each end of each section of said rim, with portions radially extended; and fastening plates spanning the ends of said rim sections having slotted holes in each to engage the extended portions of said rivets.

1,429,902. VEHICLE SPRING CONSTRUCTION. FRANK V. COOKE, Detroit, Mich., assignor to Karl B. Goddard, Detroit, Mich. Filed Aug. 26, 1920. Serial No. 406,139. 12 Claims. (Cl. 267—36.)



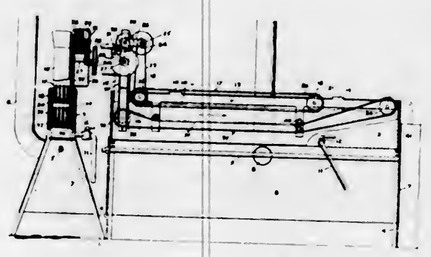
1. In a motor vehicle, in combination, with a frame member, an axle, a spring pivoted to one end of the frame member and to the opposite end of the axle, a second spring pivoted to the other end of the frame member and to the end of the axle farther therefrom, a fulcrum member adapted to embrace the intermediate portion of said frame member and provided with means for being secured thereto, said fulcrum member comprising a pair of U-shaped sockets each of which is adapted to receive a spring so as to permit movement of said spring longitudinally therein.

1,429,903. APPARATUS FOR THE SEPARATION OF GASEOUS MIXTURES. PIERRE E. HAYNES, Buffalo, N. Y., assignor to The Linde Air Products Company, New York, N. Y., a Corporation of Ohio. Filed Apr. 12, 1919. Serial No. 289,594. 3 Claims. (Cl. 62—122.)



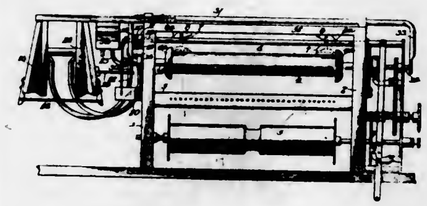
2. In apparatus for fractionating gas mixture by a process involving liquefaction of at least a part of the mixture, a gas compressor, an expansion nozzle, a receptacle adapted to collect liquid issuing from or formed at said expansion nozzle, a heater for said receptacle, a conduit connecting the compressor to the heater, a first cooler in said conduit adapted to be refrigerated by gases which have passed the expansion nozzle, a conduit connecting the heater to the expansion nozzle, a second cooler in said latter conduit, and means for leading gases which have passed said expansion nozzle to said second cooler.

1,429,904. DOUGHNUT-COOKING MACHINE. JOHN N. JUDSON, Oakland, Calif. Filed May 3, 1920. Serial No. 378,399. 2 Claims. (Cl. 53—7.)



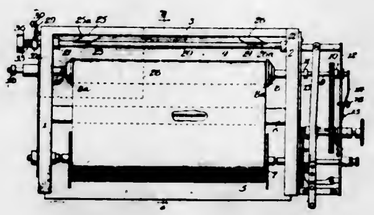
1. A doughnut cooking machine comprising a receptacle containing a cooking fluid, an endless conveyor for the most part submerged in said fluid and having one end extending above the level of the fluid, means for dropping uncooked doughnuts into the receptacle so that the doughnuts will in sinking contact with the submerged end of the conveyor and be moved forwardly thereby and means into contact with which the doughnuts are moved by a conveyor for moving the uncooked doughnuts submerged through the fluid to a point where the doughnuts will contact with the portion of the first named conveyor which extends above the level of he fluid.

1,429,905. SHEET-CONTROLLING MECHANISM. ADOLPH P. GUSTAFSON, Chicago, Ill., assignor to M. Schulz Company, Chicago, Ill. Filed May 26, 1917. Serial No. 171,109. 12 Claims. (Cl. 84—136.)



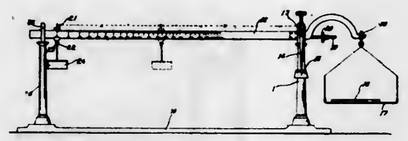
1. The combination with the tracker, music spool and means for supporting said spool, of means for automatically engaging and disengaging said spool, and mechanism for continuously effecting an automatic relative adjustment between said spool and tracker for trackage purposes during the playing operation.

1,429,906. SHEET CONTROLLING MECHANISM. ADOLPH P. GUSTAFSON, Chicago, Ill., assignor to M. Schulz Co., Chicago, Ill. Filed Aug. 24, 1917. Serial No. 187,942. 14 Claims. (Cl. 84—136.)



1. The combination with means for supporting a music roll of means for engaging said roll to adjust it in position, said engaging means being mounted for movement into and out of engagement with said roll, and means for automatically moving said engaging means into engagement with the roll and holding the same in such engagement during playing.

1,429,907. CALCULATING BALANCE. ARTHUR E. KRICK, Indianapolis, Ind., assignor to The Humidity Control Company, Indianapolis, Ind., a Corporation of Indiana. Filed Aug. 4, 1920. Serial No. 401,088. 5 Claims. (Cl. 265—30.)



1. A calculating balance, comprising a pivoted beam, a scale pan mounted on one arm thereof, a weight folder arranged to hold a weight variable in value, said weight holder and its carried weight being slidable inward and outward along the other arm of said beam independent of any weight-shifting along the first arm, said last-named arm being provided with a scale each graduation of which indicates directly the ratio between two scale arm lengths of which at least one is the distance from such graduation to a fixed point on the scale arm.

1,429,908. GRAIN-MILLING MACHINE. JAMES B. RIGHTER, East Ellsworth, Wis. Filed Dec. 19, 1921. Serial No. 523,316. 1 Claim. (Cl. 83—8.)



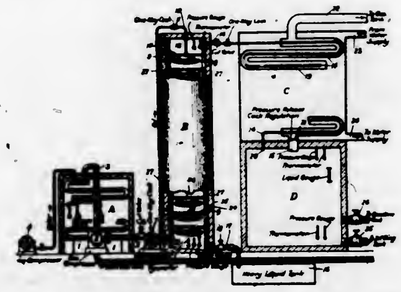
A grain milling machine comprising a case having intake and discharge ports, a vertically disposed partition secured in said case and having grinding surfaces on its opposite faces, a pair of rotary disks working in said case one at each side of said partition and having each a grinding face cooperating with the adjacent grinding face of the partition, said partition having an upwardly opening receiving duct registering with the intake port of the case and opening downwardly toward the grinding face of one of the disks, and said partition having also a transfer port through its lower portion, through which the partially ground material may be passed from one side to the other of said partition.

1,429,909. METHOD OF PREPARING FURNACE LININGS. MAGNUS UNGER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 13, 1920. Serial No. 416,670. 7 Claims. (Cl. 204—64.)



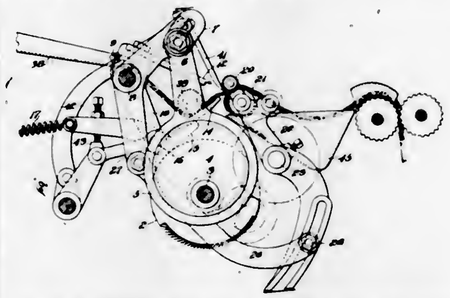
1. The method of starting an induction furnace which consists in placing within the heating space of said furnace a plurality of closed conductors respectively melting at different temperatures, and inducing a heating current therein of sufficient power to successvely melt said conductors.

1,429,910. PROCESS FOR THE CONSTRUCTIVE CONVERSION OF HYDROCARBONS. HAROLD R. BERRY, Brooklyn, N. Y. Filed Aug. 10, 1922. Serial No. 580,958. 14 Claims. (Cl. 196—25.)



5. A process for the constructive conversion of hydrocarbons of higher boiling points and hydrogen containing gas into liquid hydrocarbons of lower boiling points, which consists in establishing, in a confined space, a counter flow of heated hydrogen containing gas, carrying hydrocarbon vapors, against relatively cool oil, filmed to fineness, so that the oil flows into increasing temperatures and the gas and vapor into decreasing temperatures, with regulation of heat and pressures so that, through heat absorption, oil compounds acquire sufficient molecular instability to cause increase of their hydrogen-content and molecular re-adjustment, thus effecting the lowering of boiling points, the hydrocarbon vapors, in this manner, not being permitted to attain sufficient temperature for molecular disruption and carbon deposit.

1,429,911. WOOL-COMBING MACHINE. MAX BÖHMER, Chemnitz, Germany, assignor to Otto A. Belger, Newtonville, Mass. Filed July 17, 1922. Serial No. 575,607. 9 Claims. (Cl. 19—121.)

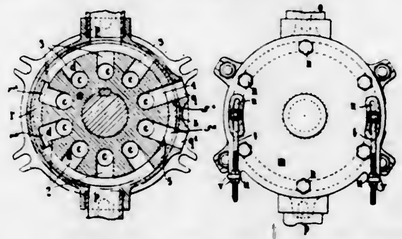


1. In a combing machine of the character described, the combination of combing means, a nipper mechanism movable to and fro, a detaching mechanism also movable to and fro, and a driving member having an oscillating movement and connected with both of said mechanisms to impart their to and fro movements to them.

1,429,912. PROCESS OF MAKING GREEN CHROME OXIDE. ALEXANDER L. DUVAL D'ADRIAN, Washington, Pa. Filed Nov. 5, 1921. Serial No. 513,135. 2 Claims. (Cl. 23—13.)

2. The process of producing a green chrome oxide, which consists in mixing substantially 100 parts by weight of an alkali metal chromate with substantially 50 parts by weight of ammonium sulphate, subjecting this mixture to the action of heat of approximately 400 degrees C. for from 15 minutes to 2 hours, subjecting the product thus obtained to the action of water to dissolve the soluble constituents, and separating out the insoluble chromium oxide.

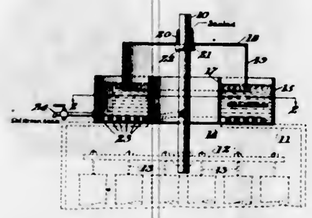
1,429,913. FILTERING APPARATUS. EDWARD WALTER WOLFE KEENE, Bristol, England. Filed Apr. 20, 1922. Serial No. 555,701. 5 Claims. (Cl. 210—200.)



1. In filtering apparatus of the type referred to, the provision of a rotary valve comprising a rotary ported

member, a fied member co-operating with and surrounding said rotary member and having outlets provided therein and an adjustable sliding member located between the rotary member and the fixed member and having ports whereby the functions of the ports of the rotary member may be controlled and regulated substantially as described and for the purpose set forth.

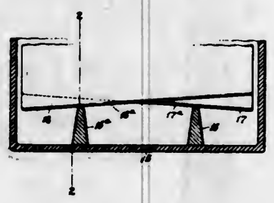
1,429,914. OIL-SEAL INSULATOR. GEORGE R. LEWERS, Brooklyn, N. Y., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 8, 1918. Serial No. 261,677. 9 Claims. (Cl. 173—311.)



1. The combination with a structure having an opening and an electrical conductor passing therethrough, of means for insulating said structure from the conductor, said means comprising an annular vessel seated on the structure and defining a central passage substantially in alignment with said opening, a hood having a portion extending into the space defined by the inner and outer wall of the annular vessel, and an insulating medium in the annular vessel forming a seal between the latter and the hood, the hood having a central aperture through which the conductor passes.

REISSUES.

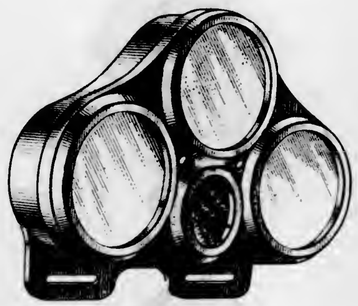
15,457. ELECTRIC STORAGE BATTERY. MATTHEW LECHNER, New York, N. Y. Filed Aug. 31, 1921. Serial No. 497,378. Original No. 1,359,259, dated Nov. 16, 1920, Serial No. 247,111, filed July 29, 1918. 3 Claims. (Cl. 204—29.)



1. In a storage battery cell, the combination of a container, positive and negative plates therein said plates being combined in the form of a unit and having their upright edges, at all points, out of contact with the inner wall of the container, and spaced bridge elements in said container whereby said unit is supported in position, the supporting edges of the plates of at least one set having no more than a single point of contact with one of said bridge elements and being spaced from the other bridge elements that support other plates.

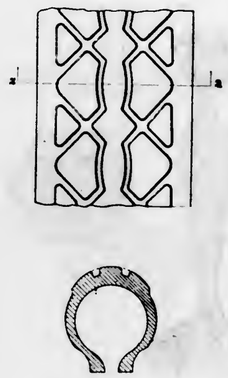
DESIGNS.

61,492. DIRECTION INDICATOR FOR VEHICLES. THOMAS C. ANTHONY, Brooklyn, N. Y. Filed Jan. 11, 1921. Serial No. 436,574. Term of patent 14 years.



The ornamental design for a direction indicator for vehicles, as shown.

61,493. TIRE. WILLIAM DAVID CARNAL, Akron, Ohio, assignor to Ray Puncture Proof Tire Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1921. Serial No. 468,428. Term of patent 14 years.



The ornamental design for a tire as shown.

61,494. CANDLESTICK. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 20, 1922. Serial No. 795. Term of patent 7 years.



The ornamental design for a candlestick substantially as shown.

61,495. CANDLESTICK. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 23, 1922. Serial No. 826. Term of patent 7 years.



The ornamental design for a candlestick substantially as shown.

61,496. CANDLESTICK. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 21, 1922. Serial No. 1,323. Term of patent 7 years.



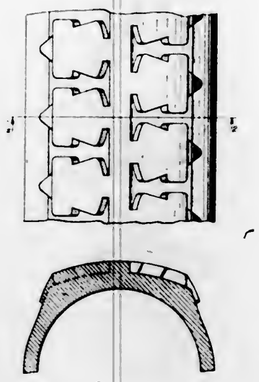
The ornamental design for a candlestick substantially as shown.

61,497. CANDLESTICK. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 18, 1922. Serial No. 1,240. Term of patent 7 years.



The ornamental design for a candlestick substantially as shown.

61,498. TIRE. HERBERT A. GITHENS, Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed July 6, 1921. Serial No. 482,848. Term of patent 14 years.



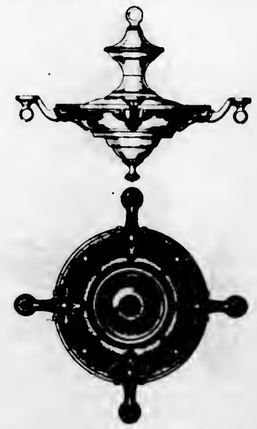
The ornamental design for a tire substantially as shown.

61,499. LIGHTING-FIXTURE ARM. HERMAN WILLIAM GROSSMAN, New York, N. Y. Filed Jan. 21, 1922. Serial No. 157. Term of patent 7 years.



The ornamental design for a lighting fixture arm, substantially as shown.

61,500. LIGHTING FIXTURE. HERMAN W. GROSSMAN, New York, N. Y. Filed Jan. 21, 1922. Serial No. 303. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

61,501. PHONOGRAPH CABINET. CICERO HINE, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 12, 1922. Serial No. 178. Term of patent 7 years.



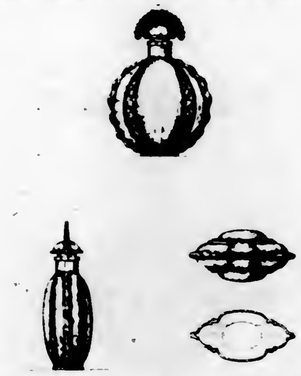
The ornamental design for phonograph cabinet as shown.

61,502. LAMP. JUNIOUS A. LIPSCOMB, Baltimore, Md. Filed Feb. 1, 1922. Serial No. 487. Term of patent 7 years.



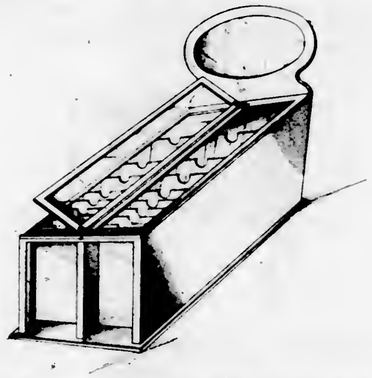
The ornamental design for a lamp, as shown.

61,503. BOTTLE. JOHN A. MAIER, London, England, assignor to The Erasmic Company, Limited, Warrington, England, a Corporation of Great Britain. Filed Mar. 26, 1921. Serial No. 455,992. Term of patent 7 years.



The ornamental design for a bottle, as shown.

61,504. DISPLAY CABINET. HARRY MORRIS, Chicago, Ill. Filed Apr. 22, 1921. Serial No. 463,638. Term of patent 14 years.



The ornamental design for a display cabinet, as shown

61,505. JAR. LOUIS B. NEWELL, Baltimore, Md., assignor to Carr-Lowrey Glass Co., Baltimore, Md. Filed Jan. 7, 1922. Serial No. 99. Term of patent 7 years.



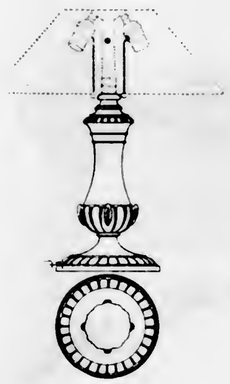
The ornamental design for a jar, as shown.

61,506. BOTTLE. LOUIS B. NEWELL, Baltimore, Md., assignor to Carr-Lowrey Glass Co., Baltimore, Md. Filed Jan. 7, 1922. Serial No. 100. Term of patent 7 years.



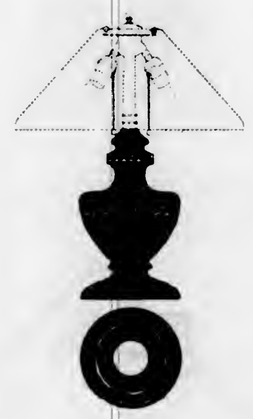
The ornamental design for a bottle, as shown.

61,507. LAMP STANDARD. EDWIN B. PIKE, Milwaukee, Wis., assignor to Phoenix Light Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 29, 1921. Serial No. 511,529. Term of patent 3½ years.



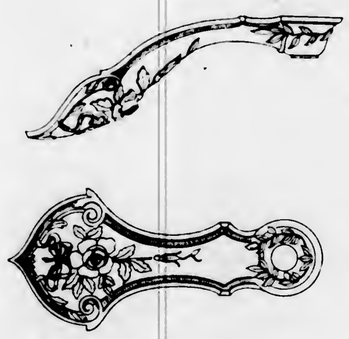
The ornamental design for a lamp standard, as shown.

61,508. LAMP STANDARD. EDWIN B. PIKE, Milwaukee, Wis., assignor to Phoenix Light Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 29, 1921 Serial No. 511,530. Term of patent 3½ years.



The ornamental design for a lamp standard, as shown.

61,509. ARM FOR LIGHTING FIXTURES. FREDERICK MAX PORITZ, New York, N. Y., assignor to Scott-Ullman Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 25, 1922. Serial No. 356. Term of patent 3½ years.



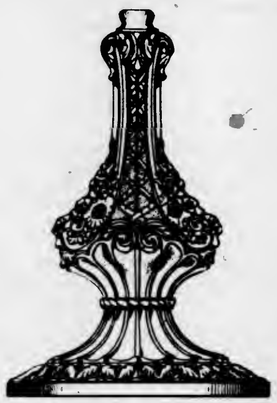
The ornamental design for an arm for lighting fixtures, as shown.

61,510. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,725. Term of patent 7 years.



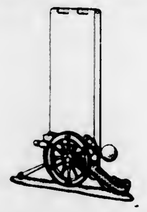
The ornamental design for a pedestal for lighting fixtures, as shown.

61,511. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,726. Term of patent 7 years.



The ornamental design for a pedestal for lighting fixtures, as shown.

61,512. CONTAINER FOR GRAMOPHONE NEEDLES. CLIFTON WEST, London, England. Filed Dec. 12, 1921. Serial No. 521,933. Term of patent 14 years.



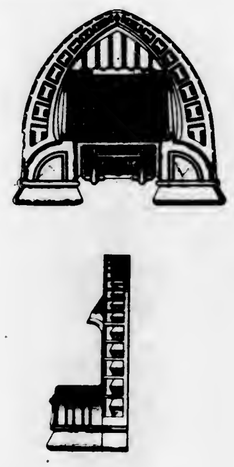
The ornamental design for a container for gramophone needles as shown.

61,513. WATCHCASE PENDANT. LOIS MCG. WILLIAMS, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed May 15, 1922. Serial No. 2,250. Term of patent 14 years.



The ornamental design for a watch-case pendant, substantially as shown.

61,514. GAS HEATER. EMIL ZETTLER, Chicago, Ill., assignor to James B. Clow & Sons, Chicago, Ill., a Corporation of Illinois. Filed Jan. 30, 1922. Serial No. 421. Term of patent 14 years.



The ornamental design for a gas heater as shown.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 19, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 125,390. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LAUTERJUNG & SOHN, Solingen-Sud, Germany. Filed Nov. 28, 1919.



Particular description of goods.—Swords, Sabers, Cutlasses, Rapiers, Daggers, Poniards, Stilettos, Dueling Swords, Kitchen and Table Forks of Base Metal, Kitchen and Tables Knives of Base Metal, Pocketknives, Scissors, Shears, Croppers for Hair Cutting, Razors, Razor Blades, Safety Razors, Corkscrews, Hammers, Chisels, Hatchets, Screw Drivers, Drills, Planes, Tongs, Pincers, Nippers, Pliers, Wrenches, Rasps, Vises, Files, Nail Trimmers, Meat Choppers, and Cramps.

Claims use since Apr. 19, 1912.

Ser. No. 125,394. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MENLEY & JAMES LIMITED, New York, N. Y. Filed Nov. 28, 1919.



Particular description of goods.—Beef Extract.

Claims use since May 27, 1919.

Ser. No. 134,843. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LOUIS NIEMAN, Philadelphia, Pa. Filed July 12, 1920.



Trade-mark consists of the word "Gloria." The lining in the drawing is for shading only.

Particular description of goods.—Leathers.

Claims use since Jan. 15, 1920.

Ser. No. 137,504. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COSTIS TAKIS, New York, N. Y. Filed Sept. 22, 1920.



The lining shown on the drawing is for shading purposes only.

Particular description of goods.—Choice Chocolates and Bonbons Packed in Neat Boxes and Containers.

Claims use since February, 1919.

Ser. No. 140,933. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ECKERT PACKING COMPANY, Henderson, Ky. Filed Dec. 11, 1920.



No claim is made to the word "Brand" apart from the other features of the mark as shown in drawing.

Particular description of goods.—Ham.

Claims use since May 1, 1920.

Ser. No. 141,725. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LORNA LEVY, New York, N. Y. Filed Dec. 31, 1920.



Particular description of goods.—Hair Salve.

Claims use since Dec. 15, 1920.

Ser. No. 142,183. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DIRK HENDRICK VETTEWINKEL, doing business as H. Vettewinkel & Zonen, Amsterdam, Netherlands, assignor to Naamlooze Vennootschap Vernis- en Verffabriek voorheen H. Vettewinkel & Zonen, Amsterdam, The Netherlands, a Corporation of The Netherlands. Filed Jan. 12, 1921.

CHINOL.

"Chinol."

Particular description of goods.—Varnishes, Lacquers, Oil Paints, Water Paints, Dry Paints, Enamel Paints, Paint Removers, Paints Containing Anticorrosive and Anti-fouling Ingredients to Protect Ships' Bottoms, and Dry Colors.

Claims use since 1917.

Ser. No. 142,237. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE RECORD ELECTRICAL COMPANY LIMITED, Broadheath, Altrincham, England. Filed Jan. 13, 1921.

CIRSCALE

Particular description of goods.—Ammeters, Voltmeters, Ohmmeters, Wattmeters, Electric Speedometers, and Other Forms of Electrical Indicating Instruments of the Moving-Coil, Moving-Iron, Induction, and Dynamometer Types for Alternating or Direct Current.

Claims use since Mar. 22, 1913.

Ser. No. 142,940. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) PABST BREWING COMPANY, Milwaukee, Wis. Filed Jan. 29, 1921. Under section 9 of the act of Mar. 19, 1920.

PABST

Particular description of goods.—Near Beer or Malt Cereal Beverages Containing Less Than One-half of One Per Cent Alcohol, by Volume.

Claims use since 1908.

Ser. No. 144,423. (CLASS 15. OILS AND GREASES.) PITTSBURGH OIL REFINING CORPORATION, Baltimore, Md. Filed Mar. 7, 1921.

GEARLINE

Particular description of goods.—Lubricant or Grease Specially Adapted for Use in Gear Cases of Automobiles.

Claims use since Dec. 15, 1919.

Ser. No. 144,830. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. MAURICE & CO. LTD., doing business as Therapeutic Foods Company, Willesden, London, England. Filed Mar. 16, 1921.

ENERGEN

Said trade-mark has been registered in England, No. 337,793, dated Nov. 16, 1911. C. P. Goepel, whose post-office address is 165 Broadway, city of New York, State of New York, is designated on whom process or notice of proceedings affecting the right of ownership of said

trade-mark brought under the laws of the United States may be served.

Particular description of goods.—Bread — Namely, Loavettes, Mignonettes, Gluten Bread, Wholemeal (Brown) Bread, Biscuit Meal, Gluten Tapioca, Protein Food, Gluten Casein, Batons, and Biscuits.

Claims use since on or about Nov. 16, 1911.

Ser. No. 145,846. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) POWER SUPPLY COMPANY, Terre Haute, Ind. Filed Apr. 2, 1921.



The words "Guaranteed Satisfaction" and "Service Always" are hereby disclaimed apart from the mark shown.

Particular description of goods.—Metal railing fittings, Bibbs, Cocks, and Faucets, Metal Soil-Pipe Fittings, Ammonia-Pipe Fittings and Valves, Metal Valves for General Use, Back-Pressure Valves, Balanced Valves, Soil-Pipe Bands, Door Hangers, Shower Baths, Beam Hooks, Metal Pipe Fittings, Blast Gates, Blow-Off Cocks and Valves, Boiler Couplings, Drain Cocks, Elbows, Rivets, Stay Bolts, and Boiler-Tube Ferrules, Bolts, and Nuts; Expansion Bolts, Cotters, Brass Tubing, Pipe-Line Bushings, Screws, Metal-Soil-Pipe Vent Caps, Metal Pipe Casing, Cast-Iron Soil Pipe, Cellar Drains; Antiskid Chains and Chain for General Use; Pipe, Hose, and Rope Clamps; Pipe and Rope Clips, Water-Closets, Laundry Coil Stands, Condensation Receivers, Connecting Links for Chains, Copper Tubing, Valve Disks, Drinking Fountains, Metal Drive Pipe, Bolt Ends; Expansion Joints, Rings, and Valves; Screwed Hooks and Eyes, Rope Thimbles, Float Valves, Foot Valves and Strainers, Funnels, Fusible Plugs, Pipe Hooks, Gas Service Cocks, Gate Hooks, Siphons, Trip Gongs, Gong Pulls, Hinge Haspa and Staples, Hinges, Hook Plates, Belt Hooks, Chandelier Hooks, Hooks and Staples; Hose Bibbs, Clamps, Couplings, Menders, Nipples, Nozzles, and Valves; Fire Hydrants, Swivel Couplings, Swing Joints, Flat Springs Keys, Sinks, Ladles, Lag Screws, Lavatories, Lead Pipe, Link Belt for Power Transmission, Repair and Replacing Links for Chains, Lock Washers and Lock Nuts, Nails, Wire Netting, Ferrous and Nonferrous Metal Pipe and Tubing, Pipe Clamps and Saddles, Pipe Straps, Pressure-Regulating Valves, Pump Governors, Spikes, Relief Valves, Hose Expansion Rings, Rivets, Burrs, Soil-Pipe Traps, Cold Shuts, Metal Washers, Spiral Riveted Pipe Fittings, Valve Springs, Sprinkler-Pipe Clips, Wire-Netting Staples, Well Strainers, Throttle Valves, Urinals, Wire Cloth, and Wire Poultry Netting.

Claims use since Dec. 1, 1919.

Ser. No. 145,994. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONSOLIDATED COMPANIES, INC., Plaquemine, Morgan City, St. Martinsville, New Roads, and White Castle, La. Filed Apr. 11, 1921.



The drawing is lined with the color red.

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Oysters, Canned Shrimp, Cottonseed Oil, Bottled Tomato Catsup, Sirup Made of Sugar Cane for Food Purposes, Cinnamon, Nutmeg, Allspice, Red Pepper, Black Pepper, Candy, Tea, Coffee, and Boxed Vermicelli, Boxed Spaghetti, Boxed Perticelli, and Boxed Macaroni.

Claims use since Jan. 8, 1920.

Ser. No. 146,028. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NATIONAL UTILITIES CORPORATION, Milwaukee, Wis. Filed Apr. 11, 1921.



The words "Guaranteed Fresh Water Systems," "Always Fresh from the Well," "Milwaukee," and "Wisconsin" are disclaimed apart from the mark shown by the drawing.

Particular description of goods.—Fresh-Water Syatems.

Claims use since Mar. 30, 1921.

Ser. No. 147,429. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) KIMBLE GLASS COMPANY, Chicago, Ill., and Vineland, N. J. Filed May 9, 1921.

EXAX

Particular description of goods.—Graduated Chemical and Laboratory Glassware.

Claims use since August, 1920.

Ser. No. 147,430. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) KIMBLE GLASS COMPANY, Chicago, Ill., and Vineland, N. J. Filed May 9, 1921.

VITAX

Particular description of goods.—Graduated, Chemical and Laboratory Glassware.
Claims use since Apr. 1, 1921.

Ser. No. 147,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) REPP ORCHARD PRODUCTS CO., Glassboro, N. J. Filed May 12, 1921.

REPP-U-TATION

Particular description of goods.—Vinegar.
Claims use since March, 1921.

Ser. No. 147,707. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CECIL MANUFACTURING COMPANY, Camden, N. J. Filed May 14, 1921.

Twin Cherries

No claim is made to the word "Cherries" apart from the mark as shown.
Particular description of goods.—Candy.
Claims use since Jan. 1, 1908.

Ser. No. 148,223. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HENRI GUILLOU, Montrouge, France. Filed May 25, 1921.

PIEUVRE

Particular description of goods.—Transmission or Driving Belts Made of Ordinary Tanned Leather, Chrome-Tanned Leather, Balata, Textile Fabrics, or a Combination of These Materials.
Claims use since March, 1920.

Ser. No. 148,381. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GO-ITE MANUFACTURING COMPANY, Kokomo, Ind. Filed May 28, 1921.

GOITE

Particular description of goods.—Filling Attachments for Tanks Placed Under the Seats of Automobiles.
Claims use since in the neighborhood of Apr. 1, 1918.

Ser. No. 149,471. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIFFLIN CHEMICAL CORPORATION, Philadelphia, Pa. Filed June 21, 1921.



Particular description of goods.—Antiseptic Preparation.
Claims use since May 12, 1921.

Ser. No. 149,745. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GATTIS CHEMICAL CO., Nashville, Tenn. Filed June 28, 1921.

Crack Shot

Particular description of goods.—Remedy for Disorders of the Stomach and Liver.
Claims use since 1913.

Ser. No. 150,051. (CLASS 12. CONSTRUCTION MATERIALS.) ANTI-HYDRO WATERPROOFING COMPANY, Newark, N. J. Filed July 6, 1921.



Particular description of goods.—Liquid Hardener for Cement Masonry.
Claims use since June 20, 1921

Ser. No. 150,440. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed July 16, 1921.

DU PONT

Particular description of goods.—Polishes Acting as Grease Removers and Cleaning Materials, Metal Polish, Solutions for Surfacing, Finishing, and Renewing Leather, Leather Substitutes, and Fabrics.
Claims use since January, 1920.

Ser. No. 150,982. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. SILZ, INC., New York, N. Y. Filed July 26, 1921.



Applicant claims as its trade mark the design shown in the accompanying drawing. No claim is made to "Brand."

The diagonal band which runs from the upper left to the lower right side of the drawing is red. The small annular band inside of the wreath is red. The five double-pointed projections from this small red annular band are green in one half and longitudinally striped green and white in the other. All of the lettering, the picture of the rooster, and two concentric lines in the outermost annular band are white. This outermost annular band, the conventionalized wreath, and the central disk of the medallion are green.

Particular description of goods.—Dressed, Packed, and Prepared Poultry and Game Birds; Also Prepared or Cooked Spaghetti, Welsh Rabbit; Boned, Boneless, and Deviled Chicken and Turkey; Turkey Hash, Chicken Salad, Chop Suey, Chicken a la King, Chicken Monterey, Mincemeat; Roquefort, Camembert, and American Cheeses and Mixtures of Such Cheeses Put Up or Wrapped or Packed in Tin Foil, Silver Foil, Tin, Glass, Earthenware, or Cardboard.
Claims use since Sept. 1, 1919, on poultry and game birds; since July 1, 1920, on cheese; since Feb. 1, 1921, with other products.

Ser. No. 151,017. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOPHIE PLUMBRIDGE, New York, N. Y. Filed July 27, 1921.

PLUMBRIDGE

Particular description of goods.—Candy, Cakes, Fruit and Berry Sirups and Juices, Maple Sirup, Honey, Preserved and Otherwise Prepared and Natural Ginger, Nuts in Their Natural State, Salted, Candied, and Shelled; Tea, Fruit and Berry Jams and Jellies, Fruit and Berry Preserves and Marmalades; Candied, Sugared, and Specially-Prepared Fruits and Berries, All of the Foregoing Substances and Products Being Used and Intended for Food Purposes Only.
Claims use since Oct. 5, 1920.

Ser. No. 151,018. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SOPHIE PLUMBRIDGE, New York, N. Y. Filed July 27, 1921.

Plumbridge

Particular description of goods.—Candy, Fruit and Berry Sirups and Juices, Honey, Nuts in Their Natural State, Salted, Candied, and Shelled; Fruit and Berry Jams and Jellies, Fruit and Berry Preserves and Marmalades, Candied, Sugared, and Specially-Prepared Fruits and Berries, All of the Foregoing Substances and Products Being Used and Intended for Food Purposes Only.
Claims use since January, 1919.

Ser. No. 151,024. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH STERN & SONS, INC., New York, N. Y. Filed July 27, 1921.

SWANEE

Trade-mark "Swanee."
Particular description of goods.—Packaged Bacon.
Claims use since June 3, 1921.

Ser. No. 151,614. (CLASS 39. CLOTHING.) DOTTIE-MAY CO., Independence, Mo. Filed Aug. 10, 1921.

Dottie-May

Particular description of goods.—Garments.
Claims use since May 18, 1921.

Ser. No. 152,067. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB DOLD PACKING CO., Buffalo, N. Y. Filed Aug. 23, 1921.

ROSA BLANCA

Particular description of goods.—Packing-House Products—Namely, Dry Salt Pork Products.
Claims use since Mar. 1, 1919.

Ser. No. 153,119. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WISCONSIN CHEESE PRODUCERS FEDERATION, Plymouth, Wis. Filed Sept. 19, 1921.

WISCONSIN
MELLO-CREME

The exclusive right to the geographical word "Wisconsin" and the descriptive term "Creme" are disclaimed except as part of the trade-mark as shown.
Particular description of goods.—Cheese.
Claims use since June 2, 1921.

Ser. No. 153,647. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN COOK & SONS, INC., Chicago, Ill. Filed Oct. 3, 1921.



Trade-mark consists of the word "Cook's," with a paraph below, the characters being in red bordered with black upon a yellow field, below which is a blue field upon which the particular food and other descriptive matter is displayed in white characters.
Particular description of goods.—Canned Meats, Canned Vegetables, and Canned Combinations of Meats and Vegetables.
Claims use since May 1, 1921.

Ser. No. 154,861. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. CRIBARI & SONS, San Jose, Calif. Filed Nov. 1, 1921.

SONNIE BOY



The picture of the grapes does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Fresh Grapes and Fresh Vegetables.
Claims use since Aug. 24, 1921.

Ser. No. 154,976. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) F. A. HARDY & COMPANY, Chicago, Ill. Filed Nov. 3, 1921.

GAGO

Particular description of goods.—Eyeglass Bridges, Temple Frames, and Mountings.
Claims use since June 1, 1905.

Ser. No. 155,503. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GUSTAV KLEMPERER, doing business as Cosmos Trading Company, New York, N. Y. Filed Nov. 17, 1921.

KOSMOS

Particular description of goods.—Hair Nets.
Claims use since Aug. 17, 1917.

Ser. No. 155,881. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. GUSTAV WINSELMANN, GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Altenburg, Germany. Filed Nov. 25, 1921.

Titan

Particular description of goods.—Sewing Machines and Parts Thereof, Machine Bobbins and Shuttles, Machine Needles, and Sewing-Machine Tables.
Claims use since May 1, 1908.

Ser. No. 156,657. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARLEY RAY PURSELL, Kensington, Kans. Filed Dec. 13, 1921.

PUMOL

Particular description of goods.—Medicinal Preparation for Use in Lung Diseases, Pneumonia, Bronchitis, Sore Throat, Asthma, Rheumatism, Bruises, Sprains, Chilblains, and Lumbago.
Claims use since Jan. 24, 1919.

Ser. No. 157,131. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JEAN LOUIS BORSCH, Paris, France. Filed Dec. 27, 1921.

FILTRAYS

Particular description of goods.—Optical Lenses and Lens Blanks Used in Correcting Eyesight.
Claims use since beginning of year 1919.

Ser. No. 157,132. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JEAN LOUIS BORSCH, Paris, France. Filed Dec. 27, 1921.

TELEGIC

Particular description of goods—Optical Lenses and Lens Blanks Used in Correcting Eyesight.
Claims use since beginning of year 1908.

Ser. No. 157,207. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB BRANFMAN, New York, N. Y. Filed Dec. 28, 1921.

JACOB BRANFMAN

No claim is made to the exclusive use of the Hebrew words, which, translated, mean "Kosher" and "For the Most Orthodox," apart from the mark as shown in the drawing.
Particular description of goods.—Meat Products—viz, Smoked Beef, Bologna, and Salami.
Claims use since Nov. 16, 1920.

Ser. No. 157,449. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SYMONS-MOFFETT CO., Flint, Mich. Filed Jan. 3, 1922.

DINNER TIME

Particular description of goods.—Coffee, Tea, Canned Vegetables, Canned Fruits, and Evaporated Milk.
Claims use since 1905.

Ser. No. 157,549. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JEAN LOUIS BORSCH, Paris, France. Filed Jan. 6, 1922.

FILTERLITE

Particular description of goods.—Optical Lenses and Lens Blanks Used in Correcting Eyesight.
Claims use since the beginning of 1921.

Ser. No. 157,562. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER RICHARD FOX, Leicester, England. Filed Jan. 6, 1922.

GLACIER

Particular description of goods.—Candy.
Claims use since Mar. 12, 1919.

Ser. No. 157,682. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ALFRED ORLIK, New York, N. Y. Filed Jan. 9, 1922.

ORLIK
CHURCHWARDEN

Particular description of goods.—Pipes.
Claims use since May 23, 1921.

Ser. No. 157,683. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ALFRED ORLIK, New York, N. Y. Filed Jan. 9, 1922.

ORLIK
SCOOP

Particular description of goods.—Pipes.
Claims use since February, 1919.

Ser. No. 157,751. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EDW. M. BECKER CO., Cleveland, Ohio. Filed Jan. 11, 1922.

FAIRYLAND

Particular description of goods.—Candy.
Claims use since October, 1919.

Ser. No. 157,755. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHALMERS CHEMICAL COMPANY, Newark, N. J. Filed Jan. 11, 1922.

Your friend.
PHENOID

Particular description of goods.—Removers for Paints and Varnishes.
Claims use prior to and since about November, 1911.

Ser. No. 157,899. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OCTAGON TOP CO., Chicago, Ill. Filed Jan. 13, 1922.

TOP



No claim is made to the words "Trade-Mark" apart from the other features of the mark shown on the drawing.
Particular description of goods.—Candy.
Claims use since May 2, 1921.

Ser. No. 158,078. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed Jan. 18, 1922.

DU PONT NAPHTHANIL

Particular description of goods.—Intermediate for Dyeing Processes.
Claims use since July 29, 1921.

Ser. No. 158,238. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUSTAVE L'HEUREUX, doing business as Liberty Chemical Company, Pawtucket, R. I. Filed Jan. 21, 1922.

WET START

Trade-mark consists of the words "Wet Start."
Particular description of goods.—Chemical Compound to Remedy Defective Insulation in Electrical Conductors.
Claims use since Jan. 1, 1922.

Ser. No. 158,500. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERTIS E. WRIGHT, Evanston, Ill. Filed Jan. 26, 1922.

SUPREME

Particular description of goods.—Salad Dressing.
Claims use since Mar. 1, 1919.

Ser. No. 158,565. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE ROSE DURANTE, doing business as The Froglett Tablet Co., Utica, N. Y. Filed Jan. 28, 1922.



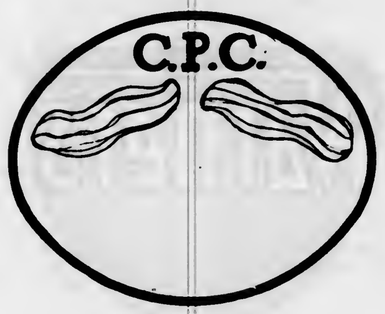
No claim is made to the exclusive right to the use of the words "Trade-Mark Registered" and "Cough Tablets" apart from the mark shown in the drawing.
Particular description of goods.—Cough Tablets.
Claims use since Oct. 1, 1917.

Ser. No. 158,932. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KANDEX PRODUCTS, INCORPORATED, New York, N. Y., assignor to The Nucoa Butter Company, a Corporation of New Jersey. Filed Feb. 6, 1922.

KANDEX

Particular description of goods.—Neutral, Somewhat Acid or Somewhat Alkaline Pulverulent Dry Products of Low Specific Gravity Containing Albuminous Material and a Fatty Oil, Which Material upon Mixing with Water is Capable of Producing a Relatively Stable Emulsion, Said Product Being Suitable for Use in the Manufacture of Confectionery, Sweets, Chocolates, and Candies.
Claims use since Dec. 15, 1921.

Ser. No. 159,009. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PEANUT COMPANY, Oakland, Calif. Filed Feb. 8, 1922.



No claim is made to the pictorial representation of the goods apart from the mark as shown in the drawing.
Particular description of goods—Peanut Butter.
Claims use since 1910.

Ser. No. 159,164. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MUELLER METALS COMPANY, Port Huron, Mich. Filed Feb. 10, 1922.

NIAG

Particular description of goods.—Metal Castings and Forgings, Particularly Nonferrous Metal Rod.
Claims use since Jan. 13, 1922.

Ser. No. 159,171. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NATIONAL RING TRAVELER CO., Providence, R. I. Filed Feb. 10, 1922.



No claim is made to the expression "Made in All N. R. T. Co. Standards. Domestic and Foreign Patents Pend'g" or to the word "Travelers" or the representation of the traveler apart from the mark shown in the drawing.
Particular description of goods.—Ring and Twister Travelers.
Claims use since March, 1921.

Ser. No. 159,335. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMERICAN ZINC SALES COMPANY, Boston, Mass. Filed Feb. 15, 1922.

AZOLITH

Particular description of goods.—Lithopone.
Claims use since Jan. 30, 1922.

Ser. No. 159,403. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILFRID I. BOOTH, Elmira, N. Y. Filed Feb. 16, 1922.

Booth's

Particular description of goods.—Candy.
Claims use since about 1901.

Ser. No. 159,428. (CLASS 15. OILS AND GREASES.) OKLAHOMA TRADING CORPORATION, New York, N. Y. Filed Feb. 16, 1922.

USOL

Particular description of goods.—Illuminating and Lubricating Oils and Greases.
Claims use since Nov. 20, 1921.

Ser. No. 159,541. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. H. THOMPSON, INC., Seattle, Wash. Filed Feb. 18, 1922.

Su-Pur-Fex

Particular description of goods.—Candies.
Claims use since Nov. 21, 1921.

Ser. No. 159,622. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERTON A. SHEPARDSON, doing business as Shepardson Extract Co., Springfield, Mass. Filed Feb. 20, 1922.

LLOYDS BRAND

The word "Brand" is disclaimed apart from other features of the mark.
Particular description of goods.—Natural and Artificial Concentrated Vanillas.
Claims use since Dec. 1, 1920.

Ser. No. 159,692. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAMBERS HOME MADE CANDIES, Chicago, Ill. Filed Feb. 23, 1922.

THE FLAPPER

Particular description of goods.—Chocolate Nut Bars.
Claims use since Feb. 9, 1922.

Ser. No. 159,703. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOCKMEYER BROS., New York, N. Y. Filed Feb. 23, 1922.

ZERO WEATHER

Trade-mark consists of the words "Zero Weather."
Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 18, 1922.

Ser. No. 159,770. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STAHL, EIDMAN & COMPANY, INC., Baltimore, Md. Filed Feb. 24, 1922.

MOUNT ROYAL

Particular description of goods.—Coffee.
Claims use since January, 1907.

Ser. No. 159,824. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARNER SUGAR REFINING COMPANY, New York, N. Y. Filed Feb. 25, 1922.

Warner's

The background upon which "Warner's" appears is in red.
Particular description of goods.—Sugar in Granulated, Lump, Block, and Powdered Form.
Claims use since Jan. 1, 1917.

Ser. No. 159,853. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DE MARIA & SPARACIA, New York, N. Y. Filed Feb. 27, 1922.

ENRICO CARUSO

Particular description of goods.—Files, Razors, Razor Blades, Pocketknives, Scissors, Kitchen Knives, and Blade Grinders.
Claims use since Jan. 1, 1922.

Ser. No. 159,956. (CLASS 15. OILS AND GREASES.) THE DUNCAN OIL COMPANY, Youngstown, Ohio. Filed Feb. 28, 1922.

Tourist

Particular description of goods.—Motor Oils and Gasoline.
Claims use since Sept. 3, 1921.

Ser. No. 159,988. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEIDMAN, WARD & CO., Albany, N. Y. Filed Feb. 28, 1922.

YARAB

Particular description of goods.—Coffee.
Claims use since Dec. 11, 1917.

Ser. No. 160,032. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SWANELL BROKERAGE CO., Cedar Rapids, Iowa. Filed Mar. 1, 1922.

PB

Particular description of goods.—Malt Sirup for Table Use as a Food.
Claims use since Jan. 1, 1920.

Ser. No. 160,080. (CLASS 15. OILS AND GREASES.) JOSIAH G. PHILIPS, doing business as World Refining Company, Easton, Pa. Filed Mar. 2, 1922.

WORLD

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Apr. 7, 1905.

Ser. No. 160,120. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNA J. DOVERSPIKE, Raymond, Wash. Filed Mar. 3, 1922.

A. J. D's



The portrait is that of Miss Dorothy Margaret Camp.
Particular description of goods.—Croup and Cough Sirups.
Claims use since Jan. 17, 1922.

Ser. No. 160,132. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. H. HAY SONS, Portland, Me. Filed Mar. 3, 1922.

HHH

Particular description of goods.—Fruit Sirup Used as a Food Drink or Food Flavor.
Claims use since Apr. 30, 1906.

Ser. No. 160,135. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. H. HAY SONS, Portland, Me. Filed Mar. 3, 1922.

3H

Particular description of goods.—Fruit Sirup Used as a Food Drink or Food Flavor.
Claims use since June 12, 1909.

Ser. No. 160,136. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VESS JONES, New York, N. Y. Filed Mar. 3, 1922.

WHISTLE

Particular description of goods.—Candy of Various Kinds.
Claims use since Feb. 17, 1922.

Ser. No. 160,138. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VESS JONES, New York, N. Y. Filed Mar. 3, 1922.

WHISTLE

Particular description of goods.—Chewing Gum.
Claims use since Feb. 17, 1922.

Ser. No. 160,170. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed Mar. 3, 1922.

EGYPTIAN

Particular description of goods.—Candles.
Claims use since about July 2, 1896.

Ser. No. 160,171. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed Mar. 3, 1922.

LA ROSE

Particular description of goods.—Candles.
Claims use since about Jan. 1, 1908.

Ser. No. 160,172. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed Mar. 3, 1922.

ADAM

Particular description of goods.—Candles.
Claims use since about Jan. 1, 1915.

Ser. No. 160,173. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed Mar. 3, 1922.

RECEPTION

Particular description of goods.—Candles.
Claims use since about July 2, 1896.

Ser. No. 160,174. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed Mar. 3, 1922.

MISSA

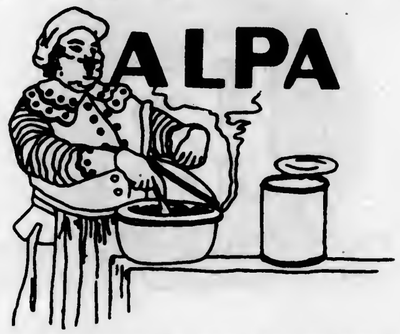
Particular description of goods.—Candles.
Claims use since about July 1, 1921.

Ser. No. 160,176. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed Mar. 3, 1922.

BARTHOLDI

Particular description of goods.—Candles.
Claims use since about July 2, 1896.

Ser. No. 160,177. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALPA PRESERVE CO., San Jose, Calif. Filed Mar. 4, 1922.



Particular description of goods.—Macaroni Sauce and Spaghetti.
Claims use since Aug. 5, 1921.

Ser. No. 160,189. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBERT PACKING CO. INC., San Jose, Calif. Filed Mar. 4, 1922.

ALTAMONT

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since July 1, 1921.

Ser. No. 160,205. (CLASS 15. OILS AND GREASES.) PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa. Filed Mar. 4, 1922.

PENOLA

Particular description of goods.—Lubricating Oils and Greases.
Claims use since February, 1921.

Ser. No. 160,217. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VOGT BROTHERS MFG. CO., Louisville, Ky. Filed Mar. 4, 1922.

VOGT BROTHERS
POPULAR VOGT
PUMPS

The words "Vogt Brothers Pumps" and "Popular" are disclaimed apart from the mark shown.
Particular description of goods.—Pumps Used in Handling Acids, Feeding Boilers, Maintaining Vacuums, Condensed-Milk Plants, and the Like.
Claims use since Jan. 10, 1922.

Ser. No. 160,244. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LINK-BELT CO., Chicago, Ill. Filed Mar. 6, 1922.

REVIVIFIER

Particular description of goods.—Mixers and Preparing Machines for Molding Sand.
Claims use since April, 1918.

Ser. No. 160,459. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BERDAN COMPANY, Toledo, Ohio. Filed Mar. 10, 1922.

TICKLE-TASTE

Particular description of goods.—Comfits and Candies.
Claims use since Jan. 23, 1922.

Ser. No. 160,491. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORTUNE PRODUCTS COMPANY, Chicago, Ill. Filed Mar. 10, 1922.

NORTH POLE

Particular description of goods.—Chocolate—Namely, Sweet Milk Chocolate.
Claims use since Dec. 19, 1921.

Ser. No. 160,515. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SILKWOOD-PHARIS WHOLESALE GROCERY COMPANY, West Frankfort, Ill. Filed Mar. 10, 1922.

Alice Rose

Particular description of goods.—Canned Vegetables.
Claims use since Feb. 1, 1922.

Ser. No. 160,574. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed Mar. 11, 1922.

CARDINAL

Particular description of goods.—Candles.
Claims use since about Jan. 1, 1915.

Ser. No. 160,575. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Filed Mar. 11, 1922.

CLASSIC

Particular description of goods.—Candles.
Claims use since about Jan. 1, 1921.

Ser. No. 160,576. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Filed Mar. 11, 1922.

CRYSTAL

Particular description of goods.—Candles.
Claims use since about Jan. 1, 1915.

Ser. No. 160,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEONARD R. CARLEY, Watertown, Conn. Filed Mar. 13, 1922.

KARLODE

Particular description of goods.—Talcum, Face Powder, Foot Powder, Cold Cream, Vanishing Cream, Cleansing Cream, Rose Water and Gylcerine, Toilet Water, Tooth Paste, Bath Powders or Salts, Water Glass.
Claims use since Dec. 20, 1921.

Ser. No. 160,638. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STOKES & WELLS, St. Louis, Mo. Filed Mar. 13, 1922.

North Pole Icicle

Particular description of goods.—Pastry Ice-Cream Cones.
Claims use since Feb. 23, 1922.

Ser. No. 160,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPRINGDALE VINEGAR COMPANY, Springdale, Ark. Filed Mar. 13, 1922.



The picture of the girl shown on drawing is fanciful.
Particular description of goods.—Pure Apple-Cider Vinegar.
Claims use since Dec. 1, 1921.

Ser. No. 160,649. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE YORBA LINDA CITRUS ASSOCIATION, Yorba Linda, Calif. Filed Mar. 13, 1922.

Fortuna

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Oct. 14, 1921.

Ser. No. 160,688. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALLEN-QUALLEY COMPANY, St. Paul, Minn. Filed Mar. 15, 1922.

"The SHEIK"

Particular description of goods.—Candy.
Claims use since January, 1922.

Ser. No 160,706. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HUYLER'S, New York, N. Y. Filed Mar. 15, 1922.

I. C. BAR

No claim is made to the word "Bar" apart from the mark shown in drawing.
Particular description of goods.—Ice Cream.
Claims use since Mar. 8, 1922.

Ser. No. 160,729. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE UNION CANDY COMPANY, St. Louis, Mo. Filed Mar. 15, 1922.

RED WHISTLE

Particular description of goods.—Candies.
Claims use since October, 1919.

Ser. No. 160,734. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILLSON GOGGLES, INC., Reading, Pa. Filed Mar. 15, 1922.

W

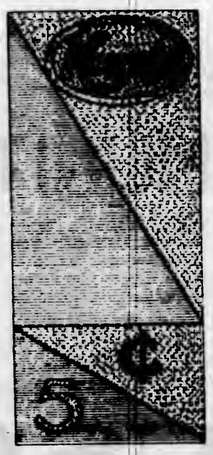
Particular description of goods.—Lenses for Goggles and Protection Glasses.
Claims use since Mar. 6, 1922.

Ser. No. 160,750. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY DILAS, doing business as The Arcadia, Bay City, Mich. Filed Mar. 16, 1922.



Applicant disclaims any exclusive right to the use of the word "Chocolate" apart from the mark shown.
Particular description of goods.—Candy.
Claims use since Jan. 1, 1922.

Ser. No. 160,764. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LION SPECIALTY CO., Chicago, Ill. Filed Mar. 16, 1922.



No claim is made to the price mark "5¢" apart from the mark shown in drawing. The trade-mark is printed in colors, as conventionally illustrated by the accompanying drawing, the parallel horizontal lines denoting blue, the vertical parallel lines denoting red, and the short intersecting lines denoting yellow.
Particular description of goods—Chocolate-Coated Nuts.
Claims use since about Nov. 15, 1921.

Ser. No. 160,824. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) J. J. MCCABE LATHE & MACHINERY CORPORATION, New York, N. Y. Filed Mar. 17, 1922.



Particular description of goods.—Lathes for Cutting, Chasing, Filing, Polishing, Screw Cutting, and Engraving Iron or Steel or Other Metals.
Claims use since 1893.

Ser. No. 160,900. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALMER CANDY CO., Sioux City, Iowa. Filed Mar. 18, 1922.

Molly-O

Particular description of goods.—Candy.
Claims use since Mar. 13, 1915.

Ser. No. 160,925. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANNA C. CATUDAL, Haverhill, Mass. Filed Mar. 20, 1922.



The applicant disclaims the use of the word "Candies" and geographical term "Haverhill, Mass.," this not being intended to form a part of the trade-mark.
Particular description of goods.—Candies and Chocolate.
Claims use since Jan. 1, 1921.

Ser. No. 160,926. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WILL J. CAMERON, doing business as Cameron's Surgical Specialty Co., Chicago, Ill. Filed Mar. 20, 1922.

SURGILITE

Trade-mark consists of the word "Surgilite."
Particular description of goods.—Lamps for Use by Physicians and Surgeons in Making Examinations, Diagnosis, and Operations.
Claims use since May 1, 1921.

Ser. No. 160,954. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) T. MCAVITY AND SONS LIMITED, St. John, New Brunswick, Canada. Filed Mar. 20, 1922.

LOCO

Particular description of goods.—Metal Valves.
Claims use since January, 1919.

Ser. No. 161,116. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DREYFUS BROS., Tulsa, Okla. Filed Mar. 23, 1922.



Particular description of goods.—Canned Fruits—viz, Peaches, Cherries, Plums, Apricots, Pineapple, Pears; Canned Vegetables—viz, Spinach, Beans, Corn; Canned Fish—viz, Salmon; and Coffee.
Claims use since Apr. 11, 1921.

Ser. No. 161,121. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EPHRAIM SANITARY CANNING COMPANY, Ephraim, Utah. Filed Mar. 23, 1922.

MANTI



Particular description of goods.—Canned Vegetables.
Claims use since July 5, 1914.

Ser. No. 161,215. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUELLA A. WHITE, Buffalo, N. Y. Filed Mar. 24, 1922.



All words appearing on drawing with the exception of "Luell's" and "Vitam" apart from the mark as shown are hereby disclaimed.

Particular description of goods.—Medicinal Preparations Used in the Treatment of Nervousness, Anæmia, Nutritional Disorders, Bad Blood, and Similar Ailments, the Preparation Being Put Up in Solid and Liquid Form.
Claims use since Mar. 15, 1922.

Ser. No. 161,245. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HUGO FRIEDMAN, doing business as The Hugo Friedman Mfg. Co., Chicago, Ill. Filed Mar. 25, 1922.

IMMUNITY

Particular description of goods.—Extracting Elevators, Dental Surgical Curettes, Operating Knives, Hemostats, Sealers, Chisels, Mouth Gags, Mouth Props, Scissors, Retractors, Burrs, and Surgical Mallets.
Claims use since about April, 1921.

Ser. No. 161,280. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J. Filed Mar. 25, 1922.

NUSO

Particular description of goods.—Crank-Case-Flushing Oil.
Claims use since Mar. 15, 1922.

Ser. No. 161,345. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BERNDORFER METALLWARENFABRIK ARTHUR KRUPP A.-G., Berndorf, Austria. Filed Mar. 28, 1922.

BERNDANIN

Particular description of goods.—Sheet-Metal Bands and Wire Composed of Nickel and Copper Manufactured for Electrotechnical Purposes.
Claims use since Sept. 15, 1921.

Ser. No. 161,374. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE NEW ZEALAND REFRIGERATING COMPANY LIMITED, Christchurch, New Zealand. Filed Mar. 28, 1922.



No claim to exclusive use of word "Brand," "Registered," and "Canterbury, N. Z." apart from the mark shown.
Particular description of goods.—Sheep and Lambs' Pelts.
Claims use since July 18, 1896.

Ser. No. 161,376. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE NEW ZEALAND REFRIGERATING COMPANY LIMITED, Christchurch, New Zealand. Filed Mar. 28, 1922.



No claim is made herein to the exclusive use of the word "Brand" and "Registered" apart from the mark shown.
Particular description of goods.—Sheep and Lambs' Pelts.
Claims use since July 18, 1896.

Ser. No. 161,458. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY W. SAVAGE, Jensen, Fla. Filed Mar. 29, 1922.

RIV2ERS

Particular description of goods.—Citrus Fruits and Pineapples in Their Natural State.
Claims use since Dec. 10, 1920.

Ser. No. 161,459. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. S. TYREE, CHEMIST, INC., Washington, D. C. Filed Mar. 29, 1922. Under ten-year proviso.

Tyree's Antiseptic Powder

Particular description of goods.—Antiseptic Powders.
Claims use since prior to 1891.

Ser. No. 161,461. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSIAH S. TYREE, Washington, D. C. Filed Mar. 29, 1922. Under ten-year proviso.

Tyree's Buchu and Hyoscyamus

Particular description of goods.—Liquid Medicinal Preparations for Internal Use in Cases of Chronic Pyelitis, Subacute and Chronic Inflammation of the Kidneys, Catarrh and Chronic Inflammation and Irritation of the Bladder, Chronic Inflammation of the Urethra, Irritation from Enlargement of the Prostate Gland, Incontinence of Urine in Children, Caused by Irritation of the Bladder, as a Preventive of the Formation or Deposition of Uric Acid in Uric-Acid Gravel and Uric-Acid Calculus, and in All Cases of Dropsy When It is Desired to Increase the Flow of Urine.
Claims use since prior to 1891.

Ser. No. 161,523. (CLASS 15. OILS AND GREASES.) CHARLES C. BRADT, Omaha, Nebr., assignor to U. S. Oil Works, Omaha, Nebr., a Corporation of Nebraska. Filed Mar. 31, 1922.

TRANSMOLINE

Particular description of goods.—Internal-Combustion Engine.
Claims use since Aug. 1, 1921.

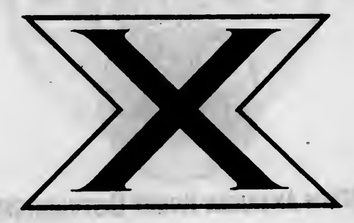
Ser. No. 161,538. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Mar. 31, 1922.



Particular description of goods.—Shampoo.
Claims use since December, 1919.

Ser. No. 161,575. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINNESOTA VALLEY CANNING CO., Le Sueur, Minn. Filed Mar. 31, 1922.

MINNESOTA VALLEY



Particular description of goods.—Canned Vegetables.
Claims use since 1903.

Ser. No. 161,576. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINNESOTA VALLEY CANNING CO., Le Sueur, Minn. Filed Mar. 31, 1922.

LE SUEUR

Z

Particular description of goods.—Canned Vegetables.
Claims use since 1903.

Ser. No. 161,599. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TWENTIETH CENTURY LABORATORIES, Chicago, Ill. Filed Mar. 31, 1922.

FRENCH CROSS

Particular description of goods.—Tissue-Building Tonic, Liniment for Sprains, Bruises, Nerve Tonic, Bronchial Sirup, Goiter Tablets and Ointment, Cathartic Tablets, Antiseptic Gargle, Eye Tonic, Antiseptic Liquid, Dyspepsia Tablets, Purgative, Ear Oil, Ear Tablets, Antifat Tablets, Skin Lotion, Catarrhal Spray, Pile Ointment, Pile Medicine, Sore Throat Tablets, Sciatica Tablets, Heart Tablets, Grip Tablets, Rheumatic Tablets, Skin Salt, Change-of-Life Tablets, Infant Tablets, Blood Purifier, Urinary Tablets, Head-Cold Tablets, Feminine Antiseptic Tablets, Kidney Tablets, Lung Balsam, Toothache Drops, Laxative Wafers, Hay-Fever Tablets, Hay-Fever Ointment, Dental Paste, Dandruff and Hair Liquid.
Claims use since July 20, 1921.

Ser. No. 161,600. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL FREDRICK VON SCHUNTZ, doing business as North American Honey Distributors, Council Bluffs, Iowa. Filed Mar. 31, 1922.

NORTH AMERICAN HONEY DISTRIBUTORS

Particular description of goods.—Honey and Beeswax.
Claims use since 1919.

Ser. No. 161,609. (CLASS 15. OILS AND GREASES.) PETROLEUM PRODUCTS COMPANY, San Francisco, Calif. Filed Apr. 3, 1922.

WARATAH

Particular description of goods.—Gasoline, Kerosene, Distillate, Lubricating Oils and Greases.
Claims use since Apr. 30, 1921.

Ser. No. 161,804. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S. & G. MANUFACTURING COMPANY, Stockton, Calif. Filed Apr. 5, 1922.

HIGAS

Particular description of goods.—Fuel Vaporizers.
Claims use since Jan. 1, 1922.

Ser. No. 161,999. (CLASS 15. OILS AND GREASES.) JOSEPH HALLIAN, doing business as the Joseph Hallian Co., Boston, Mass. Filed Apr. 10, 1922.

Hallco

Particular description of goods.—Transmission and Differential Grease and Oils.
Claims use since Mar. 27, 1922.

Ser. No. 162,147. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Apr. 11, 1922.

PRISCILLA

Particular description of goods.—Candles.
Claims use since 1921.

Ser. No. 162,398. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GEORGE VICTOR GAVAZA, doing business as the Automatic Siphon Filler Co., Beverly and Boston, Mass. Filed Apr. 17, 1922.

SIPH-O

Particular description of goods.—Automatic Siphons, Bath Sprays, Faucet Adapters, Shut-Off Clamps for Use with Rubber Tubing, and Water-Pressure Ejectors.
Claims use since Mar. 1, 1921.

Ser. No. 162,400. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OTTO A. GLESSNER, doing business as the Pest-U-Di Chemical Company, Chicago, Ill. Filed Apr. 17, 1922.

PEST-U-DI

The color lining of trade-mark designates shading only.
Particular description of goods.—Preparation for the Alleviation of Roup, Diarrhea, Bowel Complaint, Sore Head, Chicken Pox, Frosted Comb, Diphtheria, and Canker in Chickens, and for Poison Ivy or Oak, Running Sores, Ulcers, Eczema, Tetter, Erysipelas, Scrofula, Salt Rheum, Ringworm, Swellings, Burns, Scalds, Bruises, and Barbers' Itch in Humans, and for Sore Eyes and Mouth in Beasts.
Claims use since Mar. 14, 1922.

Ser. No. 162,425. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE S. LECHNER, doing business as Radina Remedy Co., Brooklyn, N. Y. Filed Apr. 17, 1922.

SYLATINE

Particular description of goods.—Medicinal Preparation Used in the Treatment of Rheumatism, Neuralgia, Gout, Sciatica, Lumbago, and Sprains and Soreness or Lameness from Severe Exercise.
Claims use since July 20, 1906.

Ser. No. 162,429. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MACCO CO. INC., Milwaukee, Wis. Filed Apr. 17, 1922.

MACCO

Particular description of goods.—Parting Compound or Composition.
Claims use since Dec. 13, 1920.

Ser. No. 162,618. (CLASS 39. CLOTHING.) HARRY C. FRENCH, Cleveland, Ohio. Filed Apr. 20, 1922.

2K2

Particular description of goods.—Oilproof Fabric Gloves, Jumpers, and Aprons.
Claims use since about Jan. 15, 1922.

Ser. No. 162,619. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE F. FISK, Jr., doing business as Prophylacto Mfg. Co., Chicago, Ill., assignor to George F. Fisk, doing business as Prophylacto Mfg. Co. Filed Apr. 20, 1922.

GEMCO

The vertical lines in the drawing of the trade-mark indicate shading.
Particular description of goods.—Nasal Spray Compound.
Claims use since Mar. 20, 1922.

Ser. No. 162,664. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY BRANNON COMPANY, Atlanta, Ga. Filed Apr. 21, 1922. Under ten-year proviso.

FEMA-BALM

Particular description of goods.—Curative Ointment for the Treatment of Utero-Ovarian Diseases.
Claims use since Jan. 1, 1888.

Ser. No. 162,682. (CLASS 39. CLOTHING.) LEVINE BROTHERS, Cincinnati, Ohio. Filed Apr. 21, 1922.



Particular description of goods.—Boys' Suits.
Claims use since Apr. 7, 1922.

Ser. No. 162,683. (CLASS 39. CLOTHING.) LEVINE BROTHERS, Cincinnati, Ohio. Filed Apr. 21, 1922.

Prince Chap

Particular description of goods.—Boys' Suits.
Claims use since Apr. 7, 1922.

Ser. No. 162,684. (CLASS 39. CLOTHING.) LEVINE BROTHERS, Cincinnati, Ohio. Filed Apr. 21, 1922.



Particular description of goods.—Men's Suits.
Claims use since Apr. 7, 1922.

Ser. No. 162,685. (CLASS 39. CLOTHING.) LEVINE BROTHERS, Cincinnati, Ohio. Filed Apr. 21, 1922.

Hyde Park

Particular description of goods.—Men's Suits.
Claims use since Apr. 7, 1922.

Ser. No. 162,690. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LUBBERS & BELL MFG. CO., Clinton, Iowa. Filed Apr. 21, 1922.



No claim is made to the word "Swatter" apart from the mark shown in the drawings.
Particular description of goods.—Fly Swatters.
Claims use since Sept. 15, 1911.

Ser. No. 162,778. (CLASS 39. CLOTHING.) M. SUSSMAN & SONS, Philadelphia, Pa. Filed Apr. 22, 1922.



Particular description of goods.—Men's Coats, Vests, and Trousers.
Claims use since about Sept. 10, 1921.

Ser. No. 162,782. (CLASS 39. CLOTHING.) UNITED HOSIERY MILLS CORPORATION, East Chattanooga, Tenn. Filed Apr. 22, 1922.



The words "Hose for Boys and Girls" do not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Hosiery.
Claims use since Jan. 1, 1906.

Ser. No. 162,791. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HOWARD G. STRAUSS, New York, N. Y. Filed Apr. 22, 1922.



Particular description of goods.—Razor Blades.
Claims use since Nov. 1, 1921.

Ser. No. 162,801. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONDÉ PERFUMER, New York, N. Y. Filed Apr. 24, 1922.

GLO-D'OR

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Mar. 30, 1922.

Ser. No. 162,802. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMMERCIAL LABORATORIES, INC., Newark, N. Y. Filed Apr. 24, 1922.

GOLDEN GLOW

Particular description of goods.—Face Powders, Face Creams, Perfumes, Toilet Waters, Rouges, Hair Tonics, Hair Oils, Dentifrices, Tooth Powders, Nail Polishes, Deodorizing Preparations, and Sachet Powders.
Claims use since Mar. 8, 1922.

Ser. No. 162,894. (CLASS 39. CLOTHING.) ANNA PHILLIPS, doing business as A. Phillips, New York, N. Y. Filed Apr. 25, 1922.

KIKI

Trade-mark consists of the word "Kiki."
Particular description of goods.—Ladies' Neckwear—viz, Vestees, Collar and Cuff Sets, Jabots, and Guimpes.
Claims use since Apr. 5, 1922.

Ser. No. 163,045. (CLASS 15. OILS AND GREASES.) KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa. Filed Apr. 28, 1922.

KEYSO

Particular description of goods.—Lubricants Consisting of Oils and Greases.
Claims use since 1917.

Ser. No. 163,114. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ROCKWOOD MANUFACTURING COMPANY, Indianapolis, Ind. Filed Apr. 29, 1922.



Particular description of goods.—Power-Transmission Pulleys.
Claims use since Apr. 6, 1922.

Ser. No. 163,127. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CARTIER, INC., New York, N. Y. Filed Apr. 29, 1922. Under ten-year proviso.

CARTIER

Particular description of goods.—Opera Glasses and Lorgnettes.
Claims use since 1859.

Ser. No. 163,148. (CLASS 37. PAPER AND STATIONERY.) JOHN A. FISHER, Dallas, Tex. Filed May 1, 1922.

TEXTAN

Particular description of goods.—Wrapping Paper, Tissue Napkins, Crepe Napkins, and Writing Tablets.
Claims use since 1913.

Ser. No. 163,378. (CLASS 12. CONSTRUCTION MATERIALS.) THE BARBER ASPHALT PAVING COMPANY, Philadelphia, Pa. Filed May 5, 1922.

SEALBAC

Particular description of goods.—Waterproof Roofing Sheets, and Shingles.
Claims use since Nov. 22, 1919.

Ser. No. 163,468. (CLASS 15. OILS AND GREASES.) CHESTER A. PIERCE, doing business as C. A. Pierce Oil Company, Akron, Ohio. Filed May 6, 1922.

BLUE RIBBON

Particular description of goods.—Petroleum Products Consisting of Gasoline, Kerosene, Lubricating Oils, Motor Oils, and Greases.
Claims use since 1920.

Ser. No. 163,507. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT MILLS, Lawrence and Boston, Mass. Filed May 8, 1922.

REGIT

The word "Regit" is printed in red—that is, the letters are filled in in red outlined in black and gold, as indicated in the drawing upon which the trade-mark is shown.
Particular description of goods.—Cotton Piece Goods.
Claims use since Dec. 2, 1921.

Ser. No. 163,631. (CLASS 15. OILS AND GREASES.) HAMBERGER-POLHEMUS COMPANY, San Francisco, Calif. Filed May 10, 1922.

PALOMA

Particular description of goods.—Kerosene.
Claims use since Jan. 1, 1916.

Ser. No. 163,778. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHICAGO FERRULE & NUT COMPANY, Chicago, Ill. Filed May 13, 1922.

RADIO

Particular description of goods.—Tobacco Moistener.
Claims use since about Apr. 24, 1922.

Ser. No. 164,326. (CLASS 37. PAPER AND STATIONERY.) C. P. LEAH PAPER COMPANY, Indianapolis, Ind. Filed May 23, 1922.



Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since 1910.

Ser. No. 164,442. (CLASS 39. CLOTHING.) MCINTOSH COMPANY, Springfield, Mass. Filed May 24, 1922.

DOUBLE WEAR

No claim is made to the words "Double Wear" and "Springfield, Mass." apart from the mark shown on drawing.
Particular description of goods.—Leather Boots and Shoes.
Claims use since Apr. 1, 1922.

Ser. No. 165,175. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE JAMES W. BRINE COMPANY, Boston, Mass. Filed June 8, 1922. Under ten-year proviso.

BRINE'S

Particular description of goods.—Footballs, Football Bladders, Inflaters, Hip Pads, Kidney and Back Pads, Shoulder Pads, Shoulder and Elbow Pads, Knee Pads, Football Helmets, Thigh Guards, Nose Masks, Football Gloves, Referee Whistle, Football Timer, Umpires' and Field Judges' Horns, Tackling Dummy, Releasing Attachment, Steel Cross Rod, Megaphones, Bucking Strap, Soccer Footballs, Football Goal Nets, Basket Balls, Basket-Ball Bladders, Basket-Ball Carriers, Basket-Ball Pads, Basket-Ball Goals, Thumb Protectors, Vaulting Poles, Chamois Pushers, Skates, Hockey Sticks, Hockey Leg and Knee Guards, Goal-Tender Guards, Body Protector, Goal-Tender Gloves, Hockey Gloves, Hockey Puck, Skate Straps, Snowshoes, Flexible Flier Sleds and Racers, Toboggans, Skis, Ski Bindings, Ski Poles, Medicine Balls, Volley Balls, Volley-Ball Net and Standards, Handballs, Indian Clubs, Dumb-Bells, Spring Exerciser, School and Calisthenic Wands, Playground Balls, Baseballs, Bats, Bases, Quoits, Boxing Gloves, Striking Bags, Striking-Bag Gloves, Striking-Bag Swivels, Striking-Bag Bladders, Striking-Bag Platforms, Tennis Rackets, Racket Covers, Tennis Balls, Tennis Nets, Catchers' Mitts, Basemen's Mitts, Fielders' Gloves, Catchers' Masks, Standard Masks, Leg Guards, Abdomen Protectors, Bat Bags, Batting Nets, Sliding Pads, Hammers, Disci, Shot, and Javelins to Throw; Crossbars for Jumping and Pole-Vaulting Standards, Running Corks, Tennis Markers, Tennis Posts and Reels, Tennis-Racket Presses.
Claims use since Jan. 1, 1895.

Ser. No. 165,235. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) H. L. JUDD COMPANY, New York, N. Y. Filed June 9, 1922.

Bluebird 

The pictorial representation of the bird is lined to conventionally indicate the colors blue and yellow.
Particular description of goods.—Metal Curtain Rods.
Claims use since on or about Apr. 15, 1922.

Ser. No. 165,611. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMOSET COTTON MILLS, Talladega, Ala. Filed June 16, 1922.

Samoset

Particular description of goods.—Cotton Denims in the Piece.
Claims use since April, 1921.

Ser. No. 165,792. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) HOCKMEYER BROS., New York, N. Y. Filed June 21, 1922.

MOLESTRIPE

Trade-mark consists of the word "Molestripe."
Particular description of goods.—Cotton Piece Goods.
Claims use since May 8, 1922.

Ser. No. 165,883. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. H. OPPENHEIMER & Co., New York, N. Y. Filed June 22, 1922.

OPP TEX TEXTILES

Applicant disclaims any exclusive right to the word "Textiles" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since June 7, 1922.

Ser. No. 165,949. (CLASS 37. PAPER AND STATIONERY.) HYMAN E. GOLBER, doing business as H. E. Golber and Company, Chicago, Ill. Filed June 23, 1922.

RITE-RITE

Trade-mark "Rite-Rite."
Particular description of goods—Pencil Leads and Mechanical Pencils Holding Such Leads.
Claims use since Mar. 5, 1921.

Ser. No. 166,161. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY, New York, N. Y., Chicago, Ill., and St. Louis, Mo. Filed June 28, 1922.

GLENFAST

Particular description of goods.—Cotton Cloths, Fabrics, Cloths Dyed in the Piece, and Printed Cloths.
Claims use since Apr. 5, 1922.

Ser. No. 166,200. (CLASS 37. PAPER AND STATIONERY.) NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Filed June 28, 1922.

Toiltex

Particular description of goods.—Toilet Paper.
Claims use since May 10, 1920.

Ser. No. 166,438. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ELMIRA COTTON MILLS CO., Burlington, N. C. Filed July 3, 1922.

DOLORES DOLORES

Particular description of goods.—Cotton Dress Goods—Namely, Dress Ginghams in the Piece.
Claims use since June 29, 1922.

Ser. No. 166,447. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN V. FARWELL COMPANY, Chicago, Ill. Filed July 3, 1922.

Alp Valley

"Alp Valley," trade-mark.
Particular description of goods.—Handkerchiefs.
Claims use since May 24, 1922.

Ser. No. 166,670. (CLASS 37. PAPER AND STATIONERY.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed July 10, 1922.

White Heather

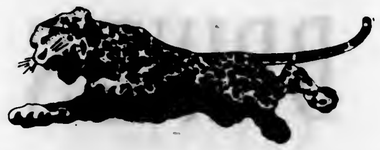
Particular description of goods.—Writing Paper and Envelopes.
Claims use since Jan. 22, 1920.

Ser. No. 166,696. (CLASS 37. PAPER AND STATIONERY.) LIBERTY PAPER CO., New York, N. Y. Filed July 10, 1922.

HANDY ANDY

Particular description of goods.—Sealing Tape.
Claims use since May 24, 1922.

Ser. No. 166,738. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) L. & E. FRENKEL, INC., New York, N. Y. Filed July 11, 1922.



EBRO

Particular description of goods.—Cotton Piece Goods.
Claims use since Aug. 1, 1921.

Ser. No. 166,842. (CLASS 37. PAPER AND STATIONERY.) MID-STATES GUMMED PAPER CO., Chicago, Ill. Filed July 13, 1922.

Mid-States

Particular description of goods.—Gummed Labels, Gummed Paper, and Gummed Tape.
Claims use since Feb. 8, 1922.

Ser. No. 166,853. (CLASS 37. PAPER AND STATIONERY.) THE RYTEX COMPANY, Indianapolis, Ind. Filed July 13, 1922.

RYTEX

Particular description of goods.—Boxed Stationery.
Claims use since Feb. 1, 1922.

Ser. No. 166,858. (CLASS 37. PAPER AND STATIONERY.) SAUQUOIT TOILET PAPER CO. INC., New Hartford, N. Y. Filed July 13, 1922.



Particular description of goods.—Toilet Paper.
Claims use since Feb. 28, 1908.

Ser. No. 167,022. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE RODIER, Paris, France. Filed July 17, 1922.

ZENAH-CLOKY

Particular description of goods.—Woolen Piece Goods.
Claims use since May 1, 1922.

Ser. No. 167,362. (CLASS 37. PAPER AND STATIONERY.) THE OSTBA CORPORATION, New York, N. Y. Filed July 25, 1922.

KNOCKOUT

Particular description of goods.—Mechanical Pencils.
Claims use since Apr. 1, 1922.

Ser. No. 167,469. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHARLES DAVID JONAS, doing business as Bartlett & Bickley, London, England. Filed July 27, 1922.

BARBIC

Particular description of goods.—Tobacco Pipes.
Claims use since Sept. 20, 1920.

Ser. No. 167,646. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORAIS, MANN & REILLY, INC., Chicago, Ill. Filed July 31, 1922.

Mi-Lady

Particular description of goods.—Hair Nets.
Claims use since Jan. 1, 1908.

Ser. No. 168,030. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS. FULGHUM & COMPANY, Los Angeles, Calif. Filed Aug. 10, 1922.

ULTRA

Particular description of goods.—Hair Nets.
Claims use since May 24, 1920.

Ser. No. 168,031. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS. FULGHUM & COMPANY, Los Angeles, Calif. Filed Aug. 10, 1922.

Highland Lassie

Particular description of goods.—Hair Nets.
Claims use since Oct. 14, 1919.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 19, 1922.

158,875. MEDICINAL PREPARATION USED IN TREATMENT OF HEMORRHAGIC SEPTICÆMIA OR LOIN DISEASE IN CATTLE. WALTER ABELL, El Campo, Tex.
Filed February 20, 1922. Serial No. 159,547. PUBLISHED JULY 11, 1922.

158,876. MATTRESSES, BOX SPRINGS, BED SPRINGS, AND PILLOWS. THE AKRON MATTRESS MANUFACTURING COMPANY, Akron, Ohio.
Filed January 28, 1922. Serial No. 158,549. PUBLISHED MAY 23, 1922.

158,877. MATTRESSES, BOX SPRINGS, BED SPRINGS, AND PILLOWS. THE AKRON MATTRESS MANUFACTURING COMPANY, Akron, Ohio.
Filed January 28, 1922. Serial No. 158,550. PUBLISHED MAY 30, 1922.

158,878. SUSPENDER BUCKLES, BUCKLES FOR MEN'S AND BOYS' CLOTHING. ALMA MANUFACTURING CO. OF BALTIMORE CITY, Baltimore, Md.
Filed January 5, 1922. Serial No. 157,544. PUBLISHED MAY 16, 1922.

158,879. HOUSEHOLD CHAIRS, ROCKERS, TABLES, BEDS, DRESSERS, DESKS, AND FIBER OFFICE FURNITURE. AMERICAN CHAIR COMPANY, Sheboygan, Wis.
Filed February 11, 1922. Serial No. 159,195. PUBLISHED JULY 4, 1922.

158,880. WOMEN'S AND CHILDREN'S APRONS, DRESSES, NIGHTGOWNS, AND CHILDREN'S PLAY SUITS. AMERICAN GARMENT CO., Indianapolis, Ind.
Filed August 29, 1921. Serial No. 152,298. PUBLISHED MAY 16, 1922.

158,881. BUFFING COMPOUNDS. AMERICAN TRIPOLI COMPANY, Seneca, Mo.
Filed July 8, 1921. Serial No. 150,127. PUBLISHED MAY 30, 1922.

158,882. PAPER CONTAINERS, CANS, AND SHIPPING TUBS FOR BUTTER, LARD, AND THE LIKE. ANGEL INTERNATIONAL CORPORATION, New York, N. Y.
Filed August 2, 1921. Serial No. 151,245. PUBLISHED MARCH 7, 1922.

158,883. TYPE CLEANSER. ANTHONY NUTYPE COMPANY, INC., Baltimore, Md., assignors, by mesne assignments, to Lawrence R. Meekins, Baltimore, Md.
Filed October 7, 1921. Serial No. 153,835. PUBLISHED MAY 16, 1922.

158,884. LADIES' COATS AND SUITS AND MEN'S COATS AND SUITS, WOMEN'S DRESSES, MEN'S TROUSERS, MEN'S WORK SHIRTS, AND BOYS' COATS AND SUITS. APPAREL PRODUCTS CO. INC., New York, N. Y.
Filed May 25, 1921. Serial No. 148,192. PUBLISHED JUNE 20, 1922.

158,885. SECTION OF A DAILY, WEEKLY, OR MONTHLY PERIODICAL DEVOTED TO GAMES. ASSOCIATED EDITORS, Chicago, Ill.
Filed January 25, 1922. Serial No. 158,410. PUBLISHED JULY 4, 1922.

158,886. METAL (GALVANIZED IRON OR TIN) PAILS, COAL HODS, DINNER PAILS, SPRINKLING POTS, BUCKETS, CANS, TOTE BOXES, AND RADIATOR FILLERS. ATLANTIC STAMPING COMPANY, Rochester, N. Y.
Filed May 6, 1921. Serial No. 147,272. PUBLISHED FEBRUARY 28, 1922.

158,887. BENCHES OTHER THAN WORKBENCHES. MELVILLE C. BACHELLER, Grand Forks, N. Dak.
Filed June 15, 1921. Serial No. 149,168. PUBLISHED JULY 4, 1922.

158,888. TEXTILE FABRICS—VIZ, SILK KNITTED CLOTH. THE BANNER SILK KNITTING MILLS, INC., New York, N. Y.
Filed December 31, 1921. Serial No. 157,355. PUBLISHED MAY 23, 1922.

158,889. WASTE RECEPTACLES. THE BARSHAL COMPANY, Cleveland, Ohio.
Filed January 28, 1922. Serial No. 158,561. PUBLISHED MARCH 14, 1922.

158,890. CORSETS. GEORGE C. BACHELLER & CO., New York, N. Y.
Filed October 26, 1921. Serial No. 154,582. PUBLISHED MAY 9, 1922.

158,891. HATS AND CAPS FOR MEN, WOMEN, AND CHILDREN. THE BELL CAP COMPANY, Philadelphia, Pa.
Filed August 12, 1921. Serial No. 151,707. PUBLISHED MAY 16, 1922.

158,892. PRINTED BOOKS. MATTHEW BENDER & COMPANY, INCORPORATED, Albany and New York, N. Y.
Filed July 25, 1921. Serial No. 150,887. PUBLISHED JUNE 13, 1922.

158,893. RAT POISON. CHARLES D. BERMAN, doing business as C. D. Berman Chemical Co., Wheeling, W. Va.
Filed December 24, 1921. Serial No. 157,090. PUBLISHED MAY 23, 1922.

158,894. MEN'S OVERALLS AND WORK SHIRTS. BERRY-BEALL DRY GOODS COMPANY, Fort Smith, Ark.
Filed July 19, 1921. Serial No. 150,589. PUBLISHED APRIL 25, 1922.

158,895. HOSIERY. BESTEX HOSIERY CO., INC., New York, N. Y.
Filed October 14, 1921. Serial No. 154,074. PUBLISHED APRIL 25, 1922.

158,896. CERTAIN NAMED NOTIONS. BILLSTEIN-FEIERMAN CO., Cleveland, Ohio.
Filed January 9, 1922. Serial No. 157,656. PUBLISHED MAY 30, 1922.

158,897. STOVE POLISH. SAMUEL L. BLACK, doing business as Green Label Stove Polish Co., Boston, Mass.
Filed March 1, 1922. Serial No. 159,994. PUBLISHED JUNE 6, 1922.

158,898. CORN MEAL. BLAKELY MILLING CO., Atlanta, Ga.
Filed June 14, 1921. Serial No. 149,122. PUBLISHED JUNE 13, 1922.

158,899. MEN'S WORK, DRESS, SPORT, AND NEGLIGEE SHIRTS AND FOR BOYS' OUTER SHIRTS AND BLOUSES. BOB & BASKIND, New York, N. Y.
Filed September 3, 1921. Serial No. 152,535. PUBLISHED JUNE 13, 1922.

158,900. LADIES' AND MISSES' OUTER SKIRTS. JOHN BONWIT SKIRT CO., INC., New York, N. Y.
Filed July 29, 1921. Serial No. 151,075. PUBLISHED MAY 16, 1922.

158,901. EVAPORATED MILK. THE BORDEN COMPANY, New York, N. Y.
Filed August 12, 1921. Serial No. 151,698. PUBLISHED JUNE 13, 1922.

158,902. FABRIC GLOVES AND MITTENS. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed January 9, 1922. Serial No. 157,652. PUBLISHED JUNE 20, 1922.

158,903. FABRIC GLOVES AND MITTENS. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed January 9, 1922. Serial No. 157,653. PUBLISHED JUNE 20, 1922.

158,904. MONTHLY PUBLICATION. BREWSTER PUBLICATIONS, INC., Brooklyn, N. Y.
Filed January 30, 1922. Serial No. 158,593. PUBLISHED MAY 23, 1922.

158,905. CHOCOLATE, COCOA, AND CANDIES. BREWSTER SONS COMPANY, Newark, N. J.
Filed August 17, 1921. Serial No. 151,860. PUBLISHED JUNE 13, 1922.

158,906. NAPHTHA AND LUBRICATING OILS AND GREASES. R. J. BROWN PETROLEUM COMPANY, St. Louis, Mo.
Filed October 26, 1921. Serial No. 154,577. PUBLISHED APRIL 25, 1922.

158,907. ANNUAL PUBLICATION. VICTOR H. BROWNSCOMBE, doing business as Bankers Service Company of Pennsylvania, Pittsburgh, Pa.
Filed January 12, 1922. Serial No. 157,826. PUBLISHED JUNE 20, 1922.

158,908. MATTRESSES, CUSHIONS, PADS, SPRINGS, BOX SPRINGS, PILLOWS, AND BEDS. BURTON-DIXIE CORPORATION, Chicago, Ill.
Filed October 27, 1921. Serial No. 154,634. PUBLISHED JULY 4, 1922.

158,909. MONTHLY PERIODICAL. THE BUTTERICK PUBLISHING COMPANY, New York, N. Y.
Filed February 10, 1922. Serial No. 159,139. PUBLISHED MAY 23, 1922.

158,910. MONTHLY PERIODICAL PUBLICATION. THE BUZZA COMPANY, Minneapolis, Minn.
Filed January 23, 1922. Serial No. 158,283. PUBLISHED MAY 23, 1922.

158,911. SOAPS AND SOAP POWDERS. THE CALFICO CHEMICAL COMPANY INC., Pittsburgh, Pa.
Filed February 4, 1922. Serial No. 158,856. PUBLISHED MAY 16, 1922.

158,912. COTTONSEED MEAL FOR USE AS A FERTILIZER. CALIFORNIA COTTON OIL COMPANY, Los Angeles, Calif.
Filed January 23, 1922. Serial No. 158,294. PUBLISHED MARCH 21, 1922.

158,913. HOSIERY. CALTON MANUFACTURING COMPANY, Spartanburg, S. C.
Filed July 29, 1921. Serial No. 151,079. PUBLISHED JUNE 13, 1922.

158,914. CERTAIN NAMED PAINTS, VARNISHES, AND SHELLACS. MARK P. CANE, Los Angeles, Calif.
Filed October 3, 1921. Serial No. 153,645. PUBLISHED MARCH 7, 1922.

158,915. SHEETING, SHEETS, AND PILLOWCASES. CARTER DRY GOODS CO., Louisville, Ky.
Filed September 9, 1921. Serial No. 152,739. PUBLISHED NOVEMBER 8, 1921.

158,916. TOILET POWDER. THE CHLOREATE CO., Chicago, Ill.
Filed February 11, 1922. Serial No. 159,198. PUBLISHED JUNE 27, 1922.

158,917. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS AND CONCENTRATES FROM WHICH SUCH SOFT DRINKS ARE MADE. CITRUS PRODUCTS CO., Chicago, Ill.
Filed May 25, 1921. Serial No. 148,213. PUBLISHED APRIL 25, 1922.

158,918. ROPE, ROVINGS, CORDS, AND TWINES MADE FROM VEGETABLE AND ANIMAL FIBERS, SUCH AS COTTON, FLAX, JUTE, RAMIE, HEMP, MANILA, SISAL, WOOL, AND SILK (NATURAL AND ARTIFICIAL). CLARK BROS. MFG. CO., Camden, N. J., and Philadelphia, Pa.
Filed January 13, 1922. Serial No. 157,887. PUBLISHED MAY 2, 1922.

158,919. TUBULAR KNIT FABRIC MADE OF ARTIFICIAL SILK. CLAYBURGH BROTHERS, San Francisco, Calif.
Filed February 27, 1922. Serial No. 159,851. PUBLISHED JUNE 27, 1922.

158,920. FRUIT SIRUPS FOR THE PREPARATION OF SOFT DRINKS, ALSO FOR BEVERAGES OR SOFT DRINKS FLAVORED WITH SUCH SIRUPS. THE CLEVELAND FRUIT JUICE COMPANY, Cleveland, Ohio.
Filed June 4, 1920. Serial No. 133,249. PUBLISHED DECEMBER 14, 1920.

158,921. GASOLINE INTENSIFIER. CLINTON CHEMICAL COMPANY, Irvington, N. J.
Filed February 4, 1922. Serial No. 158,857. PUBLISHED JULY 11, 1922.

158,922. FLAT OIL PAINT. THE JOHN P. COCHRAN CO., Cleveland, Ohio.
Filed January 10, 1922. Serial No. 157,711. PUBLISHED MARCH 7, 1922.

158,923. PERFUMES, PERFUMED POWDERS, AND TOILET WATERS. COLGATE & CO., Jersey City, N. J., and New York, N. Y.
Filed January 13, 1921. Serial No. 142,201. PUBLISHED FEBRUARY 22, 1921.

158,924. WOMEN'S LEATHER SHOES. CRADDOCK TERRY COMPANY, Lynchburg, Va.
Filed January 21, 1922. Serial No. 158,223. PUBLISHED JUNE 13, 1922.

158,925. MAGAZINE PUBLISHED MONTHLY. BRUCE V. CRANDALL, Chicago, Ill.
Filed February 10, 1922. Serial No. 159,144. PUBLISHED JUNE 27, 1922.

158,926. EGG-CASE FILLERS. THE CREAMERY PACKAGE MFG. COMPANY, Chicago, Ill.
Filed January 30, 1922. Serial No. 158,601. PUBLISHED MARCH 14, 1922.

158,927. LINEN AND COTTON GOODS—VIZ, BED LINEN, TABLE LINEN, HANDKERCHIEFS, LINGERIE, BABY LINEN, AND LACE. MATTHEW CROSBIE, doing business as James Crosbie & Son, New York, N. Y.
Filed September 8, 1921. Serial No. 152,699. PUBLISHED JUNE 13, 1922.

158,928. HOSIERY. DAISY WHITEHEAD KNITTING CO., New York, N. Y.
Filed October 17, 1921. Serial No. 154,179. PUBLISHED APRIL 25, 1922.

158,929. SKIN-CLEANSING CREAMS, TOILET POWDERS, SHAMPOOS, HAND LOTIONS, FACE LOTIONS, AND TOILET CREAMS. BENJAMIN F. DARNEILLE, doing business as LePinx Laboratories, Springfield, Ill.
Filed May 6, 1922. Serial No. 163,435. PUBLISHED JUNE 27, 1922.

158,930. PAINT ENAMELS, PREPARED SHELLACS, VARNISHES, ENGINE ENAMELS, AUTOMOBILE TOP DRESSING OF A PAINT OR VARNISH NATURE, AUTOMOBILE POLISHES, POLISHING WAX. JAMES B. DAY & CO., Chicago, Ill.
Filed August 20, 1921. Serial No. 151,981. PUBLISHED MARCH 14, 1922.

158,931. BLOOD PURIFIERS, TONICS, AND CONDITIONERS FOR HORSES, COWS, CALVES, SHEEP, LAMBS, PIGS, AND OTHER ANIMALS. DAY, SON & HEWITT, LIMITED, London, England.
Filed October 20, 1921. Serial No. 154,353. PUBLISHED JUNE 13, 1922.

158,932. HOOKS AND EYES, HOOK AND EYE TAPE, AND SAFETY PINS. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa.
Filed April 12, 1922. Serial No. 162,164. PUBLISHED JULY 4, 1922.

158,933. HARNESS HARDWARE—NAMELY, BRIDLE BITS, STIRRUPS, SPURS, BUCKLES, RINGS, D's, SWIVELS, CHAINS, AND HAMES. JOHN DEWSBURY & SON, LIMITED, Walsall, England.
Filed October 4, 1921. Serial No. 153,714. PUBLISHED MARCH 7, 1922.

158,934. HAND BAGS. DEXTER MANUFACTURING CO., Boston, Mass.
Filed January 21, 1922. Serial No. 158,225. PUBLISHED APRIL 25, 1922.

158,935. INSECTICIDES. MARCELLUS DIEDERICH, doing business as Standard Products Company, Lorain, Ohio.
Filed February 20, 1922. Serial No. 159,567. PUBLISHED JULY 11, 1922.

158,936. CANNED FRUITS AND VEGETABLES. G. DE SALVO & A. PATERA, Brooklyn, N. Y.
Filed January 20, 1921. Serial No. 142,474. PUBLISHED JUNE 13, 1922.

158,937. PERIODICAL PUBLICATIONS — NAMELY, CHARTS AND BOOKS PUBLISHED AT IRREGULAR INTERVALS. NEIL DIVIR, doing business as "N. Divir," New York, N. Y.
Filed December 28, 1921. Serial No. 157,218. PUBLISHED MAY 16, 1922.

158,938. SHIPPING CASES. WILLIAM H. DOBLE, Norfolk Downs, Mass.
Filed January 10, 1922. Serial No. 157,714. PUBLISHED MARCH 14, 1922.

158,939. SHIPPING CASES. WILLIAM H. DOBLE, Norfolk Downs, Mass.
Filed January 10, 1922. Serial No. 157,716. PUBLISHED MARCH 14, 1922.

158,940. BROAD SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed March 25, 1922. Serial No. 161,239. PUBLISHED JUNE 20, 1922.

158,941. SALVES CONTAINING CAMPHOR INGREDIENTS. THE DUSCO CO., Buffalo, N. Y.
Filed May 3, 1920. Serial No. 131,947. PUBLISHED MAY 24, 1921.

158,942. TOILET SOAPS. J. EAVENSON & SONS, INCORPORATED, Philadelphia, Pa., and Camden, N. J.
Filed January 30, 1922. Serial No. 158,608. PUBLISHED MARCH 28, 1922.

158,943. MEN'S TOPCOATS. JOSEPH ELSTEIN & SONS, New York, N. Y.
Filed January 7, 1922. Serial No. 157,604. PUBLISHED JUNE 20, 1922.

158,944. CERTAIN NAMED TEXTILE FABRICS. THE ESMOND MILLS, New York, N. Y.
Filed November 21, 1921. Serial No. 155,672. PUBLISHED JUNE 6, 1922.

158,945. MOTH AND DUST PROOF GARMENT BAGS. THE EVER READY GARMENT BAG CO., New York, N. Y.
Filed November 2, 1921. Serial No. 154,921. PUBLISHED MAY 2, 1922.

158,946. CIGARS. THE FAIR, Chicago, Ill.
Filed June 16, 1921. Serial No. 149,220. PUBLISHED JUNE 27, 1922.

158,947. CANNED OR BOTTLED LIQUID FOR POLISHING AUTOMOBILES AND FURNITURE. WILLIAM H. FEELER, doing business under the firm name and style of National Laboratories, Monrovia, Calif.
Filed August 22, 1921. Serial No. 152,006. PUBLISHED MARCH 7, 1922.

158,948. WORK SHIRTS. FELDMAN & WEINMAN, Baltimore, Md.
Filed January 7, 1922. Serial No. 157,608. PUBLISHED JUNE 20, 1922.

158,949. LINIMENT FOR THE TREATMENT OF RHEUMATISM. GIUSEPPE FERRERA, Corona, N. Y.
Filed September 20, 1920. Serial No. 137,369. PUBLISHED JUNE 27, 1922.

158,950. LEATHER BOOTS AND SHOES. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed February 8, 1922. Serial No. 159,018. PUBLISHED JUNE 13, 1922.

158,951. SALVE OR OINTMENT FOR OPEN WOUNDS OR SKIN DISTURBANCES. ELIZABETH FIMMEL, North Branch, N. J.
Filed December 5, 1921. Serial No. 156,271. PUBLISHED JULY 4, 1922.

158,952. CERTAIN ARTICLES OF CLOTHING. FINGER CAHN CO. INC., New York, N. Y.
Filed September 12, 1921. Serial No. 152,842. PUBLISHED JUNE 13, 1922.

158,953. ELECTRIC MASSAGE VIBRATORS, ELECTRIC MASSAGE SHOWER SPRAYS, AND ELECTRIC VIOLET-RAY APPLIANCES. THE FITZGERALD MFG. COMPANY, Torrington, Conn.
Filed November 1, 1921. Serial No. 154,871. PUBLISHED FEBRUARY 28, 1922.

158,954. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,426. PUBLISHED JUNE 27, 1922.

158,955. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,428. PUBLISHED JUNE 27, 1922.

158,956. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 29, 1922. Serial No. 161,430. PUBLISHED JUNE 27, 1922.

158,957. CERTAIN ARTICLES OF CLOTHING. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed August 10, 1921. Serial No. 151,642. PUBLISHED JUNE 13, 1922.

158,958. MALT. G. & H. PRODUCTS CO. INC., Buffalo, N. Y.
Filed October 5, 1921. Serial No. 153,760. PUBLISHED JUNE 13, 1922.

158,959. HEALING COMPOUND ADAPTED FOR HEALING SORES AND WOUNDS. GADOMSKI BROS., Jersey City, N. J.
Filed September 23, 1921. Serial No. 153,243. PUBLISHED JULY 4, 1922.

158,960. HAIR WAVERS, HAIR CURLERS, AND HAIR CRIMPERS. L. M. GARRITY & CO., INC., Boston, Mass.
Filed April 17, 1922. Serial No. 162,402. PUBLISHED JULY 4, 1922.

158,961. PAINTS FOR GLASS OR OTHER SURFACES. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed September 29, 1921. Serial No. 153,506. PUBLISHED MARCH 21, 1922.

158,962. SERIES OF CARTOONS. THE GEORGE MATTHEW ADAMS SERVICE, New York, N. Y.
Filed April 26, 1920. Serial No. 131,719. PUBLISHED JULY 4, 1922.

158,963. HORSESHOES. GIANT GRIP MFG. CO., Oshkosh, Wis.
Filed September 19, 1921. Serial No. 153,084. PUBLISHED MARCH 7, 1922.

158,964. TENNIS SHOES MADE OF RUBBER, RUBBERIZED CLOTH, FABRIC, AND COMBINATIONS OF THE SAME. I. GOLDBERG AND SONS, Boston, Mass.
Filed October 1, 1921. Serial No. 153,599. PUBLISHED JUNE 13, 1922.

158,965. FABRIC GLOVES. GOLDENBERG'S, Washington, D. C.
Filed October 15, 1921. Serial No. 154,142. PUBLISHED JUNE 6, 1922.

158,966. SALVE FOR THE TREATMENT OF SORES, BURNS, BOILS, ECZEMA, AND THE LIKE. ETIENNE GOSSELIN, Biddeford, Me.
Filed February 4, 1922. Serial No. 158,864. PUBLISHED JUNE 27, 1922.

158,967. MEN'S HATS AND CAPS. GRAF-ROSEN CO., New York, N. Y.
Filed June 10, 1921. Serial No. 148,935. PUBLISHED JUNE 6, 1922.

158,968. INFANTS' HOSIERY. W. T. GRANT COMPANY, New York, N. Y.
Filed January 4, 1922. Serial No. 157,484. PUBLISHED JUNE 13, 1922.

158,969. WOMEN'S BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER AND CLOTH. GREGORY & READ COMPANY, Lynn, Mass.
Filed January 28, 1922. Serial No. 158,573. PUBLISHED MAY 9, 1922.

158,970. SERUM FOR THE TREATMENT OF CANCER. ARTHUR G. GRENOBLE, Baltimore, Md.
Filed May 3, 1922. Serial No. 163,270. PUBLISHED JUNE 27, 1922.

158,971. CORSETS, CORSET WAISTS, BRASSIÈRES, BANDEAUX, AND UNDERWAISTS FOR LADIES, MISSES, AND CHILDREN. THE H & W COMPANY, Newark, N. J.
Filed October 12, 1921. Serial No. 154,025. PUBLISHED JUNE 20, 1922.

158,972. BED WARDROBES AND BEDSTEADS. IDALE L. HADLEY, Hartford, Conn.
Filed March 24, 1922. Serial No. 161,188. PUBLISHED JUNE 13, 1922.

158,973. CERTAIN NAMED PRINTERS' FURNITURE. THE HAMILTON MANUFACTURING COMPANY, Two Rivers, Wis.
Filed April 8, 1921. Serial No. 145,894. PUBLISHED JUNE 27, 1922.

158,974. WOMEN'S HOUSE AND STREET DRESSES. THE HANNAFORD COMPANY, Los Angeles, Calif.
Filed October 22, 1921. Serial No. 154,450. PUBLISHED JUNE 13, 1922.

158,975. HAMS AND BACONS. HATELY BROTHERS COMPANY, Chicago, Ill.
Filed March 3, 1921. Serial No. 144,285. PUBLISHED AUGUST 16, 1921.

158,976. CERTAIN NAMED LEATHER GOODS. HAUSER & WEIL, New York, N. Y.
Filed June 6, 1921. Serial No. 148,734. PUBLISHED MARCH 21, 1922.

158,977. MONTHLY PUBLICATION. HAWKINS MORTGAGE CO., Portland, Ind.
Filed February 8, 1922. Serial No. 159,023. PUBLISHED MAY 23, 1922.

158,978. CHAIRS AND TABLES FOR GENERAL USE, NOT INCLUDING THOSE USED FOR SURGICAL OPERATIONS. WILIAM HEERLING, New York, N. Y.
Filed February 20, 1922. Serial No. 159,579. PUBLISHED MAY 30, 1922.

158,979. WEATHER AND WATER PROOF COATINGS IN LIQUID AND PAINT-LIKE FORM. THE HEPPES-NELSON ROOFING COMPANY, Chicago, Ill.
Filed March 31, 1921. Serial No. 145,509. PUBLISHED FEBRUARY 28, 1922.

158,980. FIREARMS OF ALL KINDS. ORBEA HERMANOS, Eibar, Spain.
Filed May 17, 1921. Serial No. 147,826. PUBLISHED JUNE 13, 1922.

158,981. BATH ROBES. HERZOG & KRAMER, New York, N. Y.
Filed September 13, 1921. Serial No. 152,891. PUBLISHED JUNE 6, 1922.

158,982. ANTISEPTIC TOOTHBRUSH CONTAINERS OF CABINET FORM. BENJAMIN L. HOCH, Brooklyn, N. Y.
Filed January 6, 1922. Serial No. 157,567. PUBLISHED MAY 2, 1922.

158,983. MATTRESSES. JOHN HOEY & CO., San Francisco, Calif.
Filed February 1, 1922. Serial No. 158,713. PUBLISHED JUNE 20, 1922.

158,984. DESKS AND OFFICE TABLES. HOOSIER DESK COMPANY, Jasper, Ind.
Filed January 30, 1922. Serial No. 158,616. PUBLISHED MAY 30, 1922.

158,985. HAIR RESTORERS. JOHN WILLIAM HORNSEY, Jamaica Plain, Boston, Mass.
Filed February 21, 1922. Serial No. 159,655. PUBLISHED JULY 11, 1922.

158,986. MAGAZINES PUBLISHED MONTHLY. JOHN MARTIN'S HOUSE, INC., New York, N. Y.
Filed January 7, 1922. Serial No. 157,620. PUBLISHED JUNE 20, 1922.

158,987. CORSETS. F. P. HOY, INCORPORATED, New York, N. Y.
Filed December 14, 1920. Serial No. 141,068. PUBLISHED JUNE 13, 1922.

158,988. CORSETS. F. P. HOY INC., New York, N. Y.
Filed January 29, 1921. Serial No. 142,933. PUBLISHED MAY 31, 1921.

158,989. GLOVES MADE OF LEATHER, MADE OF FABRIC, AND MADE OF RUBBER. IMPROVED REVERSIBLE GLOVE CO., INC., New York, N. Y.
Filed November 1, 1921. Serial No. 154,877. PUBLISHED JUNE 13, 1922.

158,990. LIQUID PREPARATION FOR ENERGIZING GASOLINE. 1 IN 5 MANUFACTURING CO., Detroit, Mich.
Filed December 27, 1921. Serial No. 157,169. PUBLISHED JULY 4, 1922.

158,991. WEEKLY PERIODICAL. INTERPRETER PUBLISHING CORPORATION, New York, N. Y.
Filed April 14, 1922. Serial No. 162,298. PUBLISHED MAY 16, 1922.

158,992. PHOTOGRAPHIC PRINTS. ALBERT E. JACOBSON, New York, N. Y.
Filed September 12, 1921. Serial No. 152,849. PUBLISHED JULY 4, 1922.

158,993. TRAVEL PAMPHLETS, MAPS, AND GUIDE-BOOKS PUBLISHED FROM TIME TO TIME. OTHO F. JAMES, doing business as Delta Tours, Washington, D. C.
Filed November 26, 1921. Serial No. 155,970. PUBLISHED MAY 16, 1922.

158,994. MINERAL-SPRING WATER. H. S. JENNER, Rochester and Honeoye Falls, N. Y.
Filed July 6, 1921. Serial No. 150,069. PUBLISHED DECEMBER 20, 1921.

58,995. DYESTUFFS. JENNINGS & COMPANY, INC., Boston, Mass.
Filed February 20, 1922. Serial No. 159,586. PUBLISHED JULY 11, 1922.

158,996. PRINTS, PICTURES, AND ILLUSTRATIONS. ROBERT JOHN, New York, N. Y.
Filed January 20, 1922. Serial No. 158,186. PUBLISHED JUNE 20, 1922.

158,997. IMPROVED SANITARY WAX DRESSING. W. H. & F. JORDAN JR. MFG. CO., Philadelphia, Pa.
Filed September 13, 1921. Serial No. 152,894. PUBLISHED FEBRUARY 28, 1922.

158,998. SUTURE MATERIAL USED FOR SEWING UP WOUNDS. LOUIS KAHLENBERG, Two Rivers, Wis.
Filed May 5, 1921. Serial No. 147,244. PUBLISHED APRIL 25, 1922.

158,999. HATS AND CAPS. KAPLAN, SCHEUERLE & DOYNE, New York, N. Y.
Filed October 31, 1921. Serial No. 154,799. PUBLISHED JUNE 6, 1922.

159,000. MEN'S OUTER CLOTHING — NAMELY, SUITS. CHAS. KAUFMAN & BROS., Chicago, Ill.
Filed August 26, 1921. Serial No. 152,208. PUBLISHED JUNE 13, 1922.

159,001. DETERGENT PREPARATIONS — NAMELY, SOAP POWDERS. KENDALL PRODUCTS CORPORATION, New York, N. Y.
Filed February 7, 1922. Serial No. 158,985. PUBLISHED JULY 4, 1922.

159,002. BLOUSES, BLOOMERS, SKIRTS, KNICKERS, UNDERBLOOMERS, OVERALLS, APRONS, AND SUITS FOR FEMALES. KENILWORTH MANUFACTURING CO. INC., New York, N. Y.
Filed July 7, 1921. Serial No. 150,110. PUBLISHED JUNE 6, 1922.

159,003. TRADE JOURNAL PUBLISHED QUARTERLY. ROBERT S. KENNEDY, New York, N. Y.
Filed February 11, 1922. Serial No. 159,207. PUBLISHED JUNE 20, 1922.

159,004. ENAMEL PAINTS AND VARNISH. KEYSTONE VARNISH COMPANY, Brooklyn, N. Y.
Filed October 21, 1921. Serial No. 154,409. PUBLISHED MARCH 7, 1922.

159,005. MEDICINE FOR MENORRHAGIA, METRORRHAGIA, BACKACHE, AND MENSTRUAL FEVER. ABRAHAM KHOURY, Manchester, N. H.
Filed February 18, 1922. Serial No. 159,511. PUBLISHED JULY 4, 1922.

159,006. WASHING POWDERS. AUGUST E. KIHN, doing business as Injun Washing Powder Co., Philadelphia, Pa.
Filed March 9, 1922. Serial No. 160,414. PUBLISHED JULY 4, 1922.

159,007. LEATHER BOOTS AND SHOES. KNIPE BROS., INC., Haverhill, Mass.
Filed January 30, 1922. Serial No. 158,620. PUBLISHED JUNE 13, 1922.

159,008. MANICURING IMPLEMENTS AND ACCESSORIES — NAMELY, NAIL FILES, MANICURING SCISSORS, CUTICLE RAMS, NAIL POLISHERS, TWEEZERS, ETC. HARRY D. KOENIG, New York, N. Y.
Filed April 29, 1921. Serial No. 146,971. PUBLISHED MARCH 7, 1922.

159,009. HIGH CHAIRS FOR CHILDREN. KOMFY PRODUCTS COMPANY, Chicago, Ill.
Filed March 27, 1922. Serial No. 161,322. PUBLISHED MAY 23, 1922.

159,010. NOM DE PLUME ON NEWSPAPER AND MAGAZINE ARTICLES PREPARED BY ME ON THE SUBJECT OF DOMESTIC SCIENCE. LEONA A. KRAG, Chicago, Ill.
Filed August 18, 1921. Serial No. 151,919. PUBLISHED JUNE 6, 1922.

159,011. MEDICATED DENTAL TOOTHPICKS. MITCHELL G. LABBEE, trading as The San-O-Pick Co., Chicago, Ill.
Filed June 30, 1921. Serial No. 149,855. PUBLISHED APRIL 25, 1922.

159,012. RUBBER BOOTS AND SHOES. LA CROSSE RUBBER MILLS CO., La Crosse, Wis.
Filed October 27, 1921. Serial No. 154,655. PUBLISHED MAY 9, 1922.

159,013. DRESS PANELS. LA GRACE DRESS PANEL MANUFACTURING CO., Penns Grove, N. J.
Filed October 20, 1919. Serial No. 124,008. PUBLISHED JUNE 6, 1922.

159,014. SILK HOSE. LANGMAN, GRAY COMPANY, Philadelphia, Pa.
Filed October 11, 1921. Serial No. 153,984. PUBLISHED JUNE 13, 1922.

159,015. UNDERWAISTS AND BODY WAISTS MADE OF TEXTILE FABRIC, CORSET WAISTS, CORSETS, BRASSIÈRES, AND GIRDLES. THE LAY & WAY CO., New York, N. Y.
Filed May 19, 1921. Serial No. 147,927. PUBLISHED JUNE 6, 1922.

159,016. CERTAIN ARTICLES OF CLOTHING. JAMES LEES AND SONS COMPANY, Bridgeport, Pa.
Filed May 27, 1921. Serial No. 148,336. PUBLISHED JUNE 13, 1922.

159,017. SHOES OF LEATHER, RUBBER, FABRIC, AND OF THE COMBINATION OF THE FOREGOING. LOUIS A. LEOPOLD, trading as Lane Bryant, New York, N. Y.
Filed January 12, 1922. Serial No. 157,840. PUBLISHED MAY 16, 1922.

159,018. FERTILIZERS. HARRY D. LEVAN, trading as Lebanon Fertilizer Works, Lebanon, Pa.
Filed January 18, 1922. Serial No. 158,088. PUBLISHED MARCH 28, 1922.

159,019. NECKTIES AND SCARFS. LEVY & MARCUS, New York, N. Y.
Filed July 2, 1921. Serial No. 149,967. PUBLISHED JUNE 6, 1922.

159,020. WOMEN'S, MISSES', CHILDREN'S, AND INFANTS' CLOTHING—NAMELY, SUITS, DRESSES, SKIRTS, COATS, WAISTS, UNDERWAISTS, BRASSIÈRES, CAMISOLES, CORSET COVERS, AND BLOOMERS. THE LITTLE DUCHESS DRESS CO., INC., New York, N. Y., assignors to Rotary Frocks, Inc., New York, N. Y., a Corporation of New York.
Filed December 17, 1920. Serial No. 141,228. PUBLISHED JUNE 13, 1922.

159,021. HAIR RESTORER FOR RESTORING HAIR AND REMOVING DANDRUFF. BERTHA LOGAR, New York, N. Y.
Filed February 7, 1922. Serial No. 158,991. PUBLISHED JUNE 27, 1922.

159,022. CETAIN NAMED HOUSEHOLD, OFFICE, AND PORCH FURNITURE. LOUX SONS, Philadelphia, Pa.
Filed December 17, 1921. Serial No. 156,837. PUBLISHED MAY 16, 1922.

159,023. NECKWEAR — VIZ, NECKTIES, CRAVATS, AND MUFFLERS. M. W. LOWENSTEIN & CO. INC., New York, N. Y.
Filed October 15, 1921. Serial No. 154,148. PUBLISHED JUNE 6, 1922.

159,024. LEATHER SHOES. LUNN & SWEET COMPANY Auburn, Me.
Filed January 30, 1922. Serial No. 158,627. PUBLISHED JUNE 13, 1922.

159,025. FLOOR BRUSHES AND FLOOR BROOMS, WHISK BROOMS, TOOTHBRUSHES, HAIR-BRUSHES, CLOTHES BRUSHES, HAT BRUSHES, AND POWDER PUFFS. JAMES MCCREERY & COMPANY, New York, N. Y.
Filed January 21, 1922. Serial No. 158,242. PUBLISHED JUNE 13, 1922.

159,026. NAIL FILES, NAIL BUFFERS, MANICURING SCISSORS, CUTICLE KNIVES. JAMES MCCREERY & COMPANY, New York, N. Y.
Filed January 21, 1922. Serial No. 158,244. PUBLISHED MAY 2, 1922.

159,027. CERTAIN NAMED NOTIONS. JAMES MCCREERY & COMPANY, New York, N. Y.
Filed January 21, 1922. Serial No. 158,245. PUBLISHED JULY 4, 1922.

159,028. CERTAIN NAMED PAINTS, COLORS, VARNISHES, STAINS, AND DRIERS. MCDOUGALL-BUTLER CO., INC., Buffalo, N. Y.
Filed September 12, 1921. Serial No. 152,853. PUBLISHED MAY 2, 1922.

159,029. SERIES OF SEPARATE ILLUSTRATED STORIES OR PLAYLETS IN VERSE AND PROSE. JOSEPH P. MCEVOY, Chicago, Ill.
Filed February 13, 1922. Serial No. 150,273. PUBLISHED JUNE 27, 1922.

159,030. SHEETS AND PILLOWCASES. R. H. MACY & CO., INC., New York, N. Y.
Filed March 18, 1921. Serial No. 144,925. PUBLISHED JUNE 6, 1922.

159,031. CERTAIN NAMED STORE FURNITURE. MAJESTIC MANUFACTURING COMPANY, St. Louis, Mo.
Filed January 10, 1922. Serial No. 157,767. PUBLISHED MAY 23, 1922.

159,032. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed March 31, 1922. Serial No. 161,560. PUBLISHED JUNE 27, 1922.

159,033. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed March 31, 1922. Serial No. 161,561. PUBLISHED JUNE 20, 1922.

159,034. BUFFING AND POLISHING COMPOSITIONS. THE MATCHLESS METAL POLISH CO., Chicago, Ill., and Glen Ridge, N. J.
Filed February 10, 1922. Serial No. 159,169. PUBLISHED JUNE 13, 1922.

159,035. OINTMENT FOR CERTAIN NAMED PURPOSES. MENTHOL PRODUCTS COMPANY, East Orange, N. J.
Filed February 25, 1921. Serial No. 144,034. PUBLISHED JUNE 28, 1921.

159,036. HAIR NETS. MEYER & STROMPEN, San Francisco, Calif.
Filed April 5, 1922. Serial No. 161,785. PUBLISHED JUNE 20, 1922.

159,037. CERTAIN ARTICLES OF CLOTHING. J. A. MIGEL INC., New York, N. Y.
Filed August 9, 1921. Serial No. 151,586. PUBLISHED JUNE 13, 1922.

159,038. FIRE-EXTINGUISHING COMPOSITION. JOSEPH BRUCE MILLER, Indianapolis, Ind.
Filed February 4, 1922. Serial No. 158,884. PUBLISHED JULY 4, 1922.

159,039. COTTON PIECE GOODS. MINOT, HOOPER & CO., New York, N. Y.
Filed January 26, 1922. Serial No. 158,483. PUBLISHED MAY 30, 1922.

159,040. MONTHLY PERIODICAL. ROY S. MONGER, New York, N. Y.
Filed February 6, 1922. Serial No. 158,940. PUBLISHED JUNE 20, 1922.

159,041. MIXED PAINTS, STAINS, PAINT ENAMELS, FILLERS, PREPARED PAINTS, SURFACERS, VARNISHES, COLORS IN OIL, AND PASTE PAINTS. BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y.
Filed September 27, 1921. Serial No. 153,404. PUBLISHED MARCH 21, 1922.

159,042. VARNISHES, FINISHES WHICH ARE IN THE NATURE OF ENAMELS, LACQUERS, FLAT WALL FINISH, PAINT ENAMELS. THE MORGAN COMPANY, Vincennes, Ind., and Peoria, Ill.
Filed July 1, 1921. Serial No. 149,920. PUBLISHED MAY 2, 1922.

159,043. VARNISHES, FINISHES WHICH ARE IN THE NATURE OF ENAMELS, LACQUERS, FLAT WALL FINISH, PAINT ENAMELS. THE MORGAN COMPANY, Vincennes, Ind., and Peoria, Ill.
Filed July 1, 1921. Serial No. 149,921. PUBLISHED MAY 2, 1922.

159,044. KNITTED HOSIERY AND UNDERWEAR MADE OF COTTON, WOOL, FIBER, AND SILK AND COMBINATIONS THEREOF. WALTON N. MOORE DRY GOODS CO., San Francisco, Calif.
Filed February 21, 1921. Serial No. 143,875. PUBLISHED JUNE 6, 1922.

159,045. MONTHLY PUBLICATION. THE NATIONAL EXCHANGE CLUB, Toledo, Ohio.
Filed February 7, 1922. Serial No. 158,994. PUBLISHED MAY 23, 1922.

159,046. IRON BEDS, BED SPRINGS, COTS, ELASTIC WHITE FELT MATTRESSES, HAIR MATTRESSES, CUSHIONS, PILLOWS, AND BOLSTERS. NATIONAL MATTRESS CO. INC., Lynchburg, Va.
Filed January 14, 1922. Serial No. 157,951. PUBLISHED MAY 23, 1922.

159,047. WOVEN COTTON PIECE GOODS—NAMELY, WHITE AND COLORED COTTON FLANNELS, OUTING CLOTHS, AND SUITINGS. NEUSS, HESSLEIN & CO., INC., New York, N. Y.
Filed April 5, 1922. Serial No. 181,789. PUBLISHED JUNE 20, 1922.

159,048. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed February 21, 1921. Serial No. 143,885. PUBLISHED JUNE 13, 1922.

159,049. NEWSPAPER COLUMN. NEW YORK TRIBUNE INC., New York, N. Y.
Filed January 9, 1922. Serial No. 157,679. PUBLISHED JUNE 20, 1922.

159,050. PAINTS IN LIQUID AND PASTE FORM (EXCEPT WHERE THE VEHICLE IS WATER), VARNISHES, PAINT ENAMELS, AND DRIERS. EUGENE E. NICE, Philadelphia, Pa.
Filed December 30, 1920. Serial No. 141,688. PUBLISHED MARCH 14, 1922.

159,051. HOUSEHOLD, OFFICE, AND FACTORY CHAIRS. NICHOLS & STONE COMPANY, Gardner, Mass.
Filed March 30, 1922. Serial No. 161,504. PUBLISHED JUNE 13, 1922.

159,052. LOGANBERRY JUICE FOR USE IN THE MANUFACTURE OF NONALCOHOLIC, MALTLESS BEVERAGES. NORTHWEST FRUIT PRODUCTS CO., Salem, Oreg.
Filed May 10, 1922. Serial No. 163,644. PUBLISHED JUNE 27, 1922.

159,053. BOOKS, BOOKLETS, PAMPHLETS, CATALOGUES, AND SIMILAR PUBLICATIONS. THE NOURSE COMPANY, INC., New York, N. Y.
Filed December 21, 1920. Serial No. 141,386. PUBLISHED AUGUST 9, 1921.

159,054. CERTAIN NAMED HOUSEHOLD AND OFFICE FURNITURE. THE NUNNER AND ASHTON COMPANY, Cincinnati, Ohio.
Filed March 29, 1920. Serial No. 130,335. PUBLISHED MAY 30, 1922.

159,055. FELT SLIPPERS FOR MEN, WOMEN, AND CHILDREN. THE OHIO RUBBER CO., Cleveland, Ohio.
Filed August 16, 1921. Serial No. 151,844. PUBLISHED MAY 23, 1922.

159,056. FELT SLIPPERS FOR MEN, WOMEN, AND CHILDREN. THE OHIO RUBBER CO., Cleveland, Ohio.
Filed August 16, 1921. Serial No. 151,845. PUBLISHED MAY 23, 1922.

159,057. CLEANING FLUID FOR SHOES AND LEATHER GOODS. THE OWL DRUG COMPANY, San Francisco, Calif.
Filed March 20, 1922. Serial No. 160,965. PUBLISHED JUNE 6, 1922.

159,058. SOAPS, SOAP PASTES, AND SOAP POWDERS. PARFUMERIE ROGER & GALLET, Paris, France.
Filed March 2, 1922. Serial No. 160,079. PUBLISHED JUNE 6, 1922.

159,059. HAIR NETS. PARISTYLE NOVELTY CO. INC., New York, N. Y.
Filed January 25, 1922. Serial No. 158,437. PUBLISHED JUNE 6, 1922.

159,060. DRESS SHIRTS. DANIEL T. PATTON AND COMPANY, Grand Rapids, Mich.
Filed September 6, 1921. Serial No. 152,640. PUBLISHED MAY 16, 1922.

159,061. WORK SHIRTS. DANIEL T. PATTON AND COMPANY, Grand Rapids, Mich.
Filed September 6, 1921. Serial No. 152,650. PUBLISHED MAY 16, 1922.

159,062. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUP FOR MAKING THE SAME. JOHN W. POOLE, doing business as Victory Bottling Co., Terra Alta, W. Va.
Filed May 15, 1922. Serial No. 163,892. PUBLISHED JUNE 27, 1922.

159,063. CHEMICALS AS LISTED IN THE ACCOMPANYING CATALOGUE. THE PORTER CHEMICAL COMPANY, Hagerstown, Md.
Filed February 2, 1921. Serial No. 143,103. PUBLISHED JULY 4, 1922.

159,064. TOOTH POWDER. PROPHYLACTIC TOOTH POWDER, INC., New York, N. Y.
Filed September 26, 1921. Serial No. 153,365. PUBLISHED JUNE 13, 1922.

159,065. MEDICINAL COMPOUND USED FOR THE TREATMENT OF PYORRHEA. PY-RE-GON COMPANY, Chicago, Ill.
Filed November 10, 1921. Serial No. 155,273. PUBLISHED JUNE 27, 1922.

159,066. HOSIERY. RAMBO & REGAR, INCORPORATED, Norristown, Pa.
Filed June 17, 1921. Serial No. 149,294. PUBLISHED JANUARY 24, 1922.

159,067. TRANSPORTATION PACKAGES FOR TALKING-MACHINE RECORDS. THE RECO-RAP COMPANY, St. Louis, Mo.
Filed January 19, 1922. Serial No. 158,149. PUBLISHED MAY 2, 1922.

159,068. SAFETY PINS. FRED REES, doing business as The Remo Manufacturing Co., Meriden, Conn.
Filed March 23, 1922. Serial No. 161,147. PUBLISHED JULY 4, 1922.

159,069. BOOKLETS AND SMALL TEXT CARDS ISSUED FROM TIME TO TIME. THE RHODES-MARDEN CORPORATION, New York, N. Y.
Filed November 7, 1921. Serial No. 155,119. PUBLISHED MAY 16, 1922.

159,070. WASHING POWDER. HIRAM B. RHYMER, Elmira, N. Y.
Filed June 13, 1921. Serial No. 149,102. PUBLISHED JULY 4, 1922.

159,071. HOSIERY. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo.
Filed September 30, 1921. Serial No. 153,568. PUBLISHED MAY 16, 1922.

159,072. SOAPS. THE RIESER COMPANY, New York, N. Y.
Filed March 21, 1922. Serial No. 161,013. PUBLISHED JUNE 6, 1922.

159,073. CORSETS. THE RITE FORM CORSET CO., INC., New York, N. Y.
Filed October 25, 1921. Serial No. 154,569. PUBLISHED JUNE 6, 1922.

159,074. READY-MIXED COAL-TAR PAINTS AND COAL-TAR THINNERS, VARNISHES. RIVALAC PAINT COMPANY, INC., New York, N. Y.
Filed October 22, 1921. Serial No. 154,463. PUBLISHED MARCH 14, 1922.

159,075. COMPOSITION FOR THE TREATMENT OF FUEL COAL. WILLIAM A. ROBESON, doing business as Victory Coal Save Company, Saratoga Springs, N. Y.
Filed January 26, 1922. Serial No. 158,491. PUBLISHED JUNE 13, 1922.

159,076. LADIES' READY-TO-WEAR CLOTHING, PETTICOATS, SKIRTS, AND BLOOMERS. W. H. ROGERS CO., Chicago, Ill.
Filed August 6, 1920. Serial No. 135,864. PUBLISHED FEBRUARY 22, 1921.

159,077. CHILDREN'S DRESSES, ROMPERS, CREEPERS, AND SUITS. ROSENAU BROS. INC., Philadelphia, Pa.
Filed September 6, 1921. Serial No. 152,653. PUBLISHED MAY 9, 1922.

159,078. DAVENPORTS. ROYAL EASY CHAIR CORPORATION, Sturgis, Mich.
Filed February 20, 1922. Serial No. 159,619. PUBLISHED JUNE 13, 1922.

159,079. CRACK FILLER, STOVEPIPE PAINT ENAMEL, ASPHALT ROOF PAINT, AND TINNERS' RED ROOF PAINT. RUTLAND FIRE CLAY CO., Rutland, Vt.
Filed November 3, 1921. Serial No. 154,994. PUBLISHED MAY 2, 1922.

159,080. DRESS AND WARDROBE TRUNKS. ROGERS TRUNK CORPORATION, Petersburg, Va.
Filed January 7, 1922. Serial No. 157,635. PUBLISHED MARCH 21, 1922.

159,081. CERTAIN NAMED JEWELRY AND PRECIOUS-METAL WARE. THE ALBERT S. SAMUELS CO., San Francisco, Calif.
Filed August 3, 1921. Serial No. 151,335. PUBLISHED MAY 23, 1922.

159,082. CERTAIN NAMED JEWELRY AND PRECIOUS-METAL WARE. THE ALBERT S. SAMUELS CO., San Francisco, Calif.
Filed August 3, 1921. Serial No. 151,336. PUBLISHED MAY 23, 1922.

159,083. RUBBER HEELS. SAMUEL SANTALUCIA, Waterbury, Conn.
Filed January 9, 1922. Serial No. 157,694. PUBLISHED MAY 2, 1922.

159,084. A CERTAIN NAMED MEDICINAL PREPARATION. SANTERRA PERFUMERY MANUFACTURER INC., New York, N. Y.
Filed May 13, 1920. Serial No. 132,413. PUBLISHED DECEMBER 20, 1921.

159,085. UNDERWEAR FOR WOMEN IN ONE AND TWO PIECE GARMENTS OF KNIT AND OF WOVEN FABRIC. SCHEINZEIT-GOLDMAN CO., New York, N. Y.
Filed October 26, 1921. Serial No. 154,619. PUBLISHED MAY 9, 1922.

159,086. LAUNDRY BLUE OR BLUING. SCHERER, BURNELL & SCHERER, INC., New York, N. Y.
Filed March 11, 1920. Serial No. 129,573. PUBLISHED JULY 11, 1922.

159,087. MALT-EXTRACT SIRUP FOR FOOD PURPOSES. SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y.
Filed April 21, 1921. Serial No. 146,503. PUBLISHED JUNE 13, 1922.

159,088. MALT-EXTRACT SIRUP FOR FOOD PURPOSES. SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y.
Filed April 21, 1921. Serial No. 146,506. PUBLISHED JUNE 13, 1922.

159,089. MALT-EXTRACT SIRUP FOR FOOD PURPOSES. SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y.
Filed April 25, 1921. Serial No. 146,736. PUBLISHED JUNE 13, 1922.

159,090. CERTAIN NAMED SURGICAL APPLIANCES. REINHOLD SCHUMANN, INC., Newark, N. J.
Filed June 6, 1921. Serial No. 148,760. PUBLISHED FEBRUARY 28, 1922.

159,091. HOSIERY AND KNIT UNDERWEAR FOR MEN. LEOPOLD B. SCHWAB, New York, N. Y.
Filed October 19, 1921. Serial No. 154,330. PUBLISHED APRIL 25, 1922.

159,092. CANDY. SCHWARZ & SON, Newark, N. J.
Filed January 26, 1922. Serial No. 158,492. PUBLISHED JUNE 13, 1922.

159,093. MONTHLY PUBLICATIONS. CHARLES SCRIBNER'S SONS, New York, N. Y.
Filed February 8, 1922. Serial No. 159,057. PUBLISHED JUNE 20, 1922.

159,094. CAPS AND HATS FOR MEN, WOMEN, AND CHILDREN. SEATTLE CAP MANUFACTURING CO., Seattle, Wash.
Filed August 31, 1921. Serial No. 152,449. PUBLISHED JUNE 6, 1922.

159,095. SOAPS. THE SEVEN OILS CO., INC., Boston, Mass.
Filed March 22, 1922. Serial No. 161,069. PUBLISHED JUNE 6, 1922.

159,096. CERTAIN NAMED PAINTS, VARNISHES, AND POLISHES. JOHN SEXTON AND COMPANY, Chicago, Ill.
Filed January 18, 1922. Serial No. 158,099. PUBLISHED MAY 2, 1922.

159,097. POTATO CHIPS. CHARLES SHASTEEN, Toledo, Ohio.
Filed October 28, 1921. Serial No. 154,706. PUBLISHED JUNE 13, 1922.

159,098. CUFFS AND SHIRTS. SHERWIN-SPINNER COMPANY, New York, N. Y.
Filed October 14, 1921. Serial No. 154,092. PUBLISHED MAY 23, 1922.

159,099. MATTRESSES. SHIFMAN BROTHERS, Newark, N. J.
Filed January 14, 1922. Serial No. 157,963. PUBLISHED MAY 23, 1922.

159,100. PERIODICAL PUBLISHED MONTHLY. SHOE AND LEATHER REPORTER CO., Boston, Mass.
Filed January 21, 1922. Serial No. 158,262. PUBLISHED MAY 23, 1922.

159,101. CHEWING GUM. SHORT & SON CO., Reading, Pa.
Filed May 21, 1920. Serial No. 132,762. PUBLISHED JUNE 13, 1922.

159,102. PREPARED FURS IN THE PIECE OR BY THE YARD. HARRY SILBERT, doing business as Hudson Bay Fur Company, New York, N. Y.
Filed September 8, 1921. Serial No. 152,727. PUBLISHED JULY 4, 1922.

159,103. CERTAIN ARTICLES OF CLOTHING. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed September 8, 1921. Serial No. 152,720. PUBLISHED JUNE 6, 1922.

159,104. HOSIERY. CALEB SMITH, doing business as Seneca Knitting Company, Seneca Falls, N. Y.
Filed January 5, 1922. Serial No. 157,539. PUBLISHED JUNE 20, 1922.

159,105. WELDING PLATES, WELDING POWDERS, AND BRAZING AND TEMPERING POWDERS. SOCIÉTÉ DES PLAQUES ET POUDRES À SOUDER J. LAFFITTE, Paris, France.
Filed October 15, 1920. Serial No. 138,346. PUBLISHED JUNE 27, 1922.

159,106. CERTAIN ARTICLES OF CLOTHING. THE SONNY BLOUSE CO. INC., New York, N. Y.
Filed July 7, 1920. Serial No. 134,673. PUBLISHED JANUARY 31, 1922.

159,107. JOURNAL PUBLISHED MONTHLY. THE SPOKESMAN PUBLISHING COMPANY, Cincinnati, Ohio.
Filed February 11, 1922. Serial No. 159,224. PUBLISHED MAY 23, 1922.

159,108. PHONOGRAPH CABINETS. FRANCIS X. STAHL, Cincinnati, Ohio.
Filed March 10, 1922. Serial No. 160,508. PUBLISHED JUNE 13, 1922.

159,109. CERTAIN NAMED HEATING AND ILLUMINATING OILS. STANDARD OIL COMPANY, San Francisco, Calif.
Filed July 26, 1921. Serial No. 150,977. PUBLISHED JUNE 6, 1922.

159,110. CERTAIN NAMED OILS AND GREASES. STANDARD OIL COMPANY (Incorporated in New Jersey), Bayonne, N. J., and New York, N. Y.
Filed January 21, 1922. Serial No. 158,264. PUBLISHED MAY 2, 1922.

159,111. CERTAIN NAMED SCHOOL FURNITURE AND EQUIPMENT. STANDARD SCHOOL EQUIPMENT CO., Louisville, Ky.
Filed January 3, 1922. Serial No. 157,454. PUBLISHED JUNE 20, 1922.

159,112. HEALING OIL FOR RHEUMATISM, SWELLING, CARBUNCLES, PIMPLES, RINGWORMS, BURNS, FROZEN LIMBS, BOILS, AND COLIC. JOSEPH STANISLAWSKI, Hammond, Ind.
Filed February 7, 1922. Serial No. 158,990. PUBLISHED JULY 11, 1922.

159,113. A NEWSPAPER SECTION. STAR COMPANY, New York, N. Y.
Filed February 1, 1922. Serial No. 158,730. PUBLISHED JUNE 13, 1922.

159,114. NEWSPAPER SECTION. STAR COMPANY, New York, N. Y.
Filed February 16, 1922. Serial No. 159,432. PUBLISHED JUNE 20, 1922.

159,115. MATTRESSES. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed March 2, 1922. Serial No. 160,088. PUBLISHED MAY 23, 1922.

159,116. MATTRESSES. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed March 2, 1922. Serial No. 160,089. PUBLISHED MAY 23, 1922.

159,117. MATTRESSES. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed March 2, 1922. Serial No. 160,091. PUBLISHED MAY 23, 1922.

159,118. MATTRESSES. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed March 2, 1922. Serial No. 160,092. PUBLISHED MAY 23, 1922.

159,119. MATTRESSES. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed March 2, 1922. Serial No. 160,097. PUBLISHED JUNE 13, 1922.

159,120. ELASTIC WEBBING AND SHIRRED ELASTIC RIBBON. A. STEIN & COMPANY, Chicago, Ill.
Filed June 3, 1921. Serial No. 148,623. PUBLISHED JULY 4, 1922.

159,121. SANITARY APRONS AND SANITARY BELTS. A. STEIN & COMPANY, Chicago, Ill.
Filed January 9, 1922. Serial No. 157,698. PUBLISHED MAY 2, 1922.

159,122. LEATHER AND FABRIC GLOVES. STEINBERGER BROS. LOBL CO., New York, N. Y.
Filed October 27, 1921. Serial No. 154,672. PUBLISHED MAY 23, 1922.

159,123. LEATHER AND FABRIC GLOVES. STEINBERGER BROS. LOBL CO., New York, N. Y.
Filed October 27, 1921. Serial No. 154,673. PUBLISHED MAY 23, 1922.

159,124. COMBS. STEWART & HOLMES DRUG CO., Seattle, Wash.
Filed April 25, 1922. Serial No. 162,906. PUBLISHED JULY 4, 1922.

159,125. MAGAZINES ISSUED MONTHLY. STREET & SMITH CORPORATION, New York, N. Y.
Filed January 30, 1922. Serial No. 158,654. PUBLISHED MAY 23, 1922.

159,126. MAGAZINES ISSUED WEEKLY. STREET & SMITH CORPORATION, New York, N. Y.
Filed January 30, 1922. Serial No. 158,656. PUBLISHED MAY 23, 1922.

159,127. COTTON PIECE GOODS. ROBERT A. SUFFERN, New York, N. Y.
Filed October 19, 1921. Serial No. 154,332. PUBLISHED JUNE 6, 1922.

159,128. INSECTICIDES. FRANK P. SYMONDS, Salem, Mass.
Filed July 3, 1920. Serial No. 134,551. PUBLISHED DECEMBER 13, 1921.

159,129. WHEAT FLOUR. TEXAS STAR FLOUR MILLS, Galveston, Tex.
Filed November 1, 1921. Serial No. 154,891. PUBLISHED JUNE 13, 1922.

159,130. MEN'S AND BOYS' CAPS. TOWN TALK MANUFACTURING CO., Louisville, Ky.
Filed October 20, 1921. Serial No. 154,393. PUBLISHED MAY 9, 1922.

159,131. WASHING COMPOUND FOR GENERAL HOUSEHOLD, KITCHEN, AND LAUNDRY PURPOSES. TRINITY CHEMICAL CORPORATION, White Plains, N. Y.
Filed March 9, 1922. Serial No. 160,443. PUBLISHED JUNE 6, 1922.

159,132. CLEANSER FOR INDUSTRIAL, HOUSEHOLD, AND ALL GENERAL CLEANING. TRINITY CHEMICAL CORPORATION, White Plains, N. Y.
Filed March 9, 1922. Serial No. 160,444. PUBLISHED JUNE 6, 1922.

159,133. LEATHER SHOES AND PARTICULARLY MEN'S SHOES. THE W. E. TUTTLE COMPANY, Rochester, N. Y.
Filed September 2, 1921. Serial No. 152,524. PUBLISHED JUNE 13, 1922.

159,134. BED SPRINGS. UNION BED AND SPRING COMPANY, Chicago, Ill.
Filed April 7, 1922. Serial No. 161,908. PUBLISHED MAY 23, 1922.

159,135. CANNED FOODS OF SMOKED OR SALTED FISH OR HERRING. A/S UNITED SARDINE FACTORIES, Bergen, Norway.
Filed July 7, 1921. Serial No. 150,121. PUBLISHED JUNE 13, 1922.

159,136. MATTRESSES. UTICA BEDDING FACTORY, INC., Utica, N. Y.
Filed December 31, 1921. Serial No. 157,391. PUBLISHED MAY 23, 1922.

159,137. MATTRESSES. UTICA BEDDING FACTORY, INC., Utica, N. Y.
Filed January 31, 1922. Serial No. 158,692. PUBLISHED MAY 23, 1922.

159,138. LIQUID CLEANING COMPOUND. FRANK VALCOUR, Cutbank and Forsyth, Mont.
Filed September 27, 1921. Serial No. 153,420. PUBLISHED JULY 4, 1922.

159,139. INDIGESTION TABLETS. HERBERT C. VAN BUSKIRK, doing business as The Van Co., Saugerties, N. Y.
Filed October 17, 1921. Serial No. 154,247. PUBLISHED JUNE 27, 1922.

159,140. PREPARATION TO PROMOTE THE GROWTH OF HAIR ON THE SCALP AND TEMPLES AND FOR THE TREATMENT OF DANDRUFF, TETTER, AND ECZEMA. THE VELVOTONE CHEMICAL CO., Jacksonville, Fla.
Filed November 2, 1921. Serial No. 154,942. PUBLISHED JULY 4, 1922.

159,141. DRESSINGS AND DRY CLEANERS USED ON FABRICS, LEATHERS, AND OTHER MATERIALS. VENUS ARCH-SUPPORT COMPANY, Chicago, Ill.
Filed September 17, 1921. Serial No. 153,059. PUBLISHED MAY 16, 1922.

159,142. CERTAIN NAMED ARTICLES OF LADIES' MUSLIN AND SILK UNDERWEAR. VICTORIA UNDERGARMENT CO. INC., New York, N. Y.
Filed August 17, 1921. Serial No. 151,898. PUBLISHED JUNE 13, 1922.

159,143. COUGH LOZENGES, COUGH SIRUP, AND COMPOUND FOR TREATMENT OF COUGHS. VIENNA MEDICAL COMPANY, Detroit, Mich.
Filed February 20, 1922. Serial No. 159,638. PUBLISHED JULY 11, 1922.

159,144. NICKEL POLISH. WADSWORTH-HOWLAND CO., Chicago, Ill.
Filed December 28, 1920. Serial No. 141,618. PUBLISHED MAY 31, 1921.

159,145. SNAP FASTENERS. WALDES & CO., INC., Long Island City, N. Y.
Filed February 15, 1922. Serial No. 159,394. PUBLISHED JULY 4, 1922.

159,146. SHOE-SHINING STOOLS AND CABINETS. WALLIN MFG. CO., St. Paul, Minn.
Filed February 1, 1922. Serial No. 158,738. PUBLISHED MAY 23, 1922.

159,147. ANTISEPTIC SOLUTION. THE HENRY S. WAMPOLE COMPANY, Baltimore, Md.
Filed February 6, 1922. Serial No. 158,964. PUBLISHED JULY 11, 1922.

159,148. LADIES' HAND BAGS. ISIDOR WARSCHAUER, New York, N. Y.
Filed September 10, 1921. Serial No. 152,818. PUBLISHED MARCH 7, 1922.

159,149. PERIODICALS. WEBB PUBLISHING COMPANY, St. Paul, Minn.
Filed January 14, 1922. Serial No. 157,975. PUBLISHED JUNE 20, 1922.

159,150. MONTHLY PERIODICALS. WEBB PUBLISHING COMPANY, St. Paul, Minn.
Filed January 14, 1922. Serial No. 157,976. PUBLISHED JUNE 20, 1922.

159,151. DRESSES FOR LADIES AND GIRLS. THE HERMAN WEISS CO., Cincinnati, Ohio.
Filed October 27, 1921. Serial No. 154,676. PUBLISHED MAY 9, 1922.

159,152. PERIODICALS ISSUED BIMONTHLY. WESTINGHOUSE UNION BATTERY CO., Swissvale, Pa.
Filed January 16, 1922. Serial No. 158,027. PUBLISHED JUNE 13, 1922.

159,153. RUBBER HEELS. L. Q. WHITE SHOE CO., Bridgewater, Mass.
Filed January 7, 1922. Serial No. 157,643. PUBLISHED MAY 16, 1922.

159,154. METAL MESH BAGS COMPRISED WHOLLY OR IN PART OF METAL THAT IS NOT PRECIOUS, IN ALL SIZES AND FORMS, BOTH SOLDERED AND WOVEN MESH. WHITING & DAVIS COMPANY, Plainville, Mass.
Filed August 25, 1921. Serial No. 152,196. PUBLISHED MARCH 14, 1922.

159,155. WHITE AND COLORED SILK AND COTTON PIECE GOODS. CLARENCE WHITMAN & SON, INC., Katonah and New York, N. Y.
Filed April 5, 1922. Serial No. 161,814. PUBLISHED JUNE 20, 1922.

159,156. BOOTS AND SHOES MADE WHOLLY OR IN PART OF LEATHER, CANVAS, OR TEXTILE MATERIALS. WILSON PROCESS, INC., New York, N. Y.
Filed June 28, 1921. Serial No. 149,787. PUBLISHED JUNE 13, 1922.

159,157. CERTAIN NAMED FISHING TACKLE. WINCHESTER REPEATING ARMS CO., New Haven, Conn.
Filed April 28, 1922. Serial No. 163,063. PUBLISHED JUNE 27, 1922.

159,158. A MONTHLY PERIODICAL DEVOTED TO THE INTEREST OF THE IMPLEMENT OPTICAL TRADE. WOLLENSAK OPTICAL COMPANY, Rochester, N. Y.
Filed March 10, 1921. Serial No. 144,595. PUBLISHED JUNE 13, 1922.

159,159. DRESSES. JESSE WOOLF & CO., INC., New York, N. Y.
Filed October 14, 1921. Serial No. 154,106. PUBLISHED APRIL 25, 1922.

159,160. A SERIES OF VOLUMES OF EPOCHAL HISTORY OF THE UNITED STATES PUBLISHED FROM TIME TO TIME. YALE UNIVERSITY PRESS, New York, N. Y.
Filed January 31, 1922. Serial No. 158,694. PUBLISHED JUNE 13, 1922.

159,161. LIQUID CLEANSER AND POLISH FOR PIANOS, ORGANS, FURNITURE, AUTOMOBILES, AND THE LIKE. GUSTAV F. ZIEGLER, trading as The Climax Polish Company, St. Louis, Mo.
Filed May 23, 1921. Serial No. 148,102. PUBLISHED MAY 2, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

SEPTEMBER 19, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

159,162. (CLASS 12. CONSTRUCTION MATERIALS.) ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Filed Mar. 18, 1922. Serial No. 160,844.

Armstrong's

Particular description of goods.—Cork Tile or Tile Containing Cork or Wood Pulp as an Ingredient Thereof.
Claims use since 1919.

159,163. (CLASS 39. CLOTHING.) ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Filed Apr. 19, 1922. Serial No. 162,527.

ARMSTRONG'S

Particular description of goods.—Rubber Heels.
Claims use since April, 1920.

159,164. (CLASS 32. FURNITURE AND UPHOLSTERY.) BARKER BROS., INC., Los Angeles, Calif. Filed Apr. 18, 1921. Serial No. 146,290.

"Quality Reed"

Particular description of goods.—Reed Furniture Consisting of Tea Wagons, Beds, Flower Boxes, Flower Pedestals, Piano Stools, Piano Benches, Jardinière Stands, Smoker Stands, Lounge Seats, Window Seats, Book Holders, Cribs, Magazine Stands, Work Stands, Muffin Stands, Taborets, Stools, Desks, Bird-Cage Standards, Couches, Sideboards, Chaise Longues, Costumers, Buffets, Settees, Davenports, Tête-à-Têtes, Screens, Chiffoniers, Dressers, Ottomans; Chairs—viz, Steamer, Rocking, Misses', Children's Dressing-Table, Arm, Desk, Side Rockers, and Arm Rockers; Tables—viz, Telephone, Console, Oval-Top, Sewing, Library, Davenport, End, Side, Breakfast, Dining, Parlor, and Dressing.
Claims use since about May 11, 1917.

159,165. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BARTOLA MUSICAL INSTRUMENT CO., Oshkosh, Wis. Filed Feb. 10, 1920. Serial No. 128,196.

The Barton Organ

Particular description of goods.—Organs.
Claims use since Dec. 31, 1919.

159,166. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BEATTY COAL CO., Kansas City, Mo. Filed May 2, 1921. Serial No. 147,085.

ASK YOUR NEIGHBOR!

Particular description of goods.—Coal.
Claims use since Feb. 1, 1917.

159,167. (CLASS 39. CLOTHING.) THE BILTWELL GLOVE COMPANY, Toledo, Ohio. Filed Aug. 3, 1920. Serial No. 135,744.

BILT WELL

Particular description of goods.—Work Shirts, Mittens, Leather and Fabric Gloves.
Claims use since May 28, 1920.

159,168. (CLASS 15. OILS AND GREASES.) LOUIS BLAUSTEIN, trading as American Oil Co., Baltimore, Md. Filed Jan. 11, 1922. Serial No. 157,746.

AMERICAN

Particular description of goods.—Motor Oil and Greases, Auto Oil and Greases for Lubricating Purposes, Gasoline; Motor Fuel—Namely, Combinations of Gasoline and Other Elements Mixed Therewith Used in the Place of Gasoline and Kerosene.
Claims use since 1910.

159,169. (CLASS 39. CLOTHING.) S. BLECHMAN & SONS INC., New York, N. Y. Filed Aug. 9, 1921. Serial No. 151,573.

no-wet

Particular description of goods.—Children's Pants Made of Rubber.
Claims use since May 1, 1921.

159,170. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ELMER A. BROOKS, doing business as The Brooks Piano Company, Minneapolis, Minn. Filed May 8, 1922. Serial No. 163,496.

BROOKS-EVANS

Particular description of goods.—Upright Pianos, Grand Pianos, Player Pianos, and Reproducing Pianos.
Claims use since on or about Jan. 1, 1909.

159,171. (CLASS 39. CLOTHING.) THE B. V. D. COMPANY, New York, N. Y. Filed Nov. 29, 1921. Serial No. 156,046.



The vertical lining of the rectangular panels appearing in upper left and upper right hand corners of the mark indicates red color; the lining of the letters "B. V. D." in the center panel designates no color, but these letters in actual use are lined as indicated in the drawing. Said lining of the letters "B. V. D." as well as the outline of said letters and all other matter shown in the drawing in black color is in actual use reproduced in red color, with the exception of the following words: "Nainsook," "Lot," "Size," "Trade Mark Registered U. S. Patent Office and Foreign Countries," "Made in U. S. of America," "The B. V. D. Company," "Trade Mark Reg. U. S. Pat. Off. and Foreign Countries."

In actual use additional words, letters, and numbers are printed within the rectangles appearing in the lower left-hand corner and the lower right-hand corner of the trade-mark to designate the lot, quantity, and size of the garments in the package on which the label containing the trade-mark is used. In actual use additional words are printed also following the word "Nainsook" in the upper rectangular field in the center panel to designate the character of the garments in the box on which the label containing the trade mark is used—for instance, whether "Union Suit," "Shirt," "Drawers," or "V Neck Union Suit," "Youths Union Suit," or "Short Sleeve Shirt."

Particular description of goods.—Underwear—Namely, Shirts, Drawers, and Union Suits.
Claims use since Sept. 17, 1921.

159,172. (CLASS 15. OILS AND GREASES.) CADILLAC OIL COMPANY, INC., New York, N. Y. Filed Nov. 14, 1919. Serial No. 124,882.

Cadillac

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Sept. 1, 1912.

159,173. (CLASS 39. CLOTHING.) CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed Apr. 5, 1922. Serial No. 161,806.

NEWPORT

Particular description of goods.—Men's Woven Athletic Underwear.
Claims use since about March, 1917.

159,174. (CLASS 39. CLOTHING.) J. W. CARTER & Co., Nashville, Tenn. Filed Mar. 6, 1922. Serial No. 160,233.

Dr. Baker's

Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather.
Claims use since Apr. 1, 1921.

159,175. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CLARK CAR COMPANY, Pittsburgh and Johnstown, Pa. Filed May 13, 1921. Serial No. 147,660.

PITTSBURGH

Particular description of goods.—Dump Cars.
Claims use since April, 1914.

159,176. (CLASS 39. CLOTHING.) JACOB H. COHEN, doing business as the Arrow Knitting Company, New York, N. Y. Filed Apr. 11, 1922. Serial No. 162,101.

Packard

Particular description of goods.—Men's Hosiery Made of Cotton, Silk, and Wool.
Claims use since Mar. 1, 1920.

159,177. (CLASS 39. CLOTHING.) FREDERIC CONDÉ, Oswego, N. Y. Filed Mar. 15, 1922. Serial No. 160,692.

CONDÉ

Particular description of goods.—Knitted Underwear, Shirts, Drawers, Union Suits, and Bloomers for Men and Women.
Claims use since on or about Sept. 1, 1911.

159,178. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DILATOR SYRINGE CORPORATION, New York, N. Y. Filed Aug. 16, 1919. Serial No. 121,712.

DILATO

Particular description of goods.—Douche Syringes.
Claims use since on or about Aug. 6, 1919.

159,179. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DORROS BROS. INCORPORATED, New York, N. Y. Filed Nov. 27, 1920. Serial No. 140,253.

Bridal Wreath

Particular description of goods.—Artificial Wreaths and Bouquets and Floral Ornamental Trimmings.
Claims use since December, 1918.

159,180. (CLASS 39. CLOTHING.) IRVING FAIN, Brooklyn, N. Y. Filed Apr. 11, 1921. Serial No. 146,007.

Famous Fain

Particular description of goods.—Bathing Suits; Hats for Men, Women, and Children; Scarfs; Gloves for Men, Women, and Children; Hosiery; Underwear Consisting of One, Two, and Three Piece Garments for Men, Women, and Children; Athletic Wear Consisting of Athletic Shirts, Athletic Breeches, Athletic Hosiery for Outer and Under Wear Used by Men, Women, and Children; Sweaters Used by Men, Women, and Children; Sleeveless Vests for Outer and Under Wear, and Golf Coats Used by Men and Women. All of the Said Goods are Knitted Only in Wool, Cotton, and Silk or in Mixtures Thereof or Combinations of the Same.
Claims use since May, 1912.

159,181. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FARMERS TERMINAL PACKING COMPANY, Newport, St. Paul, and Minneapolis, Minn. Filed Oct. 14, 1920. Serial No. 138,282.

Merit Brand

Particular description of goods.—Cured Meats, Sausage, and Lard.
Claims use since Mar. 15, 1920.

159,182. (CLASS 39. CLOTHING.) ABRAHAM D. FELDSTEIN, New York, N. Y. Filed Dec. 21, 1921. Serial No. 156,989.

ANY-SIZE
The TRUE-FIT Cap for Any Head

Particular description of goods.—Men's Caps.
Claims use since December, 1920.

159,183. (CLASS 39. CLOTHING.) C. W. FERGUSON COLLAR CO., Troy, N. Y. Filed Dec. 23, 1921. Serial No. 157,063.

No-Wilt

Particular description of goods.—Men's Collars.
Claims use since Sept. 2, 1920.

159,184. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FORT WAYNE ENGINEERING & MANUFACTURING CO., Fort Wayne, Ind. Filed Sept. 12, 1921. Serial No. 152,841.

CUSHION STROKE

Particular description of goods.—Deep-Well Pumps.
Claims use since June 8, 1921.

159,185. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LOUIS A. FREEDMAN, New York, N. Y. Filed July 11, 1921. Serial No. 150,228.

"BELL-LITE"

Particular description of goods.—A Combined Bell and Electric Lamp Socket Used as a Signal Device.
Claims use since Mar. 15, 1921.

159,186. (CLASS 39. CLOTHING.) GOLDENBERG'S, Washington, D. C. Filed Oct. 15, 1921. Serial No. 154,143.

Chamo-Suede

Particular description of goods.—Fabric Gloves.
Claims use since July 1, 1921.

159,187. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM E. GREENE, New York, N. Y. Filed Jan. 20, 1922. Serial No. 158,182.

The Wills Products Company

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints; Varnishes, and Waterproofing Compounds in the Nature of a Paint.
Claims use since about April, 1920.

159,188. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HAYES SHOCK ABSORBER CO., Minneapolis, Minn. Filed June 3, 1921. Serial No. 148,596.

"watch them work"

Particular description of goods.—Shock Absorbers (Automobile.)
Claims use since Jan. 1, 1921.

159,189. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE HESS AND HOPKINS LEATHER COMPANY, Rockford, Ill. Filed Nov. 26, 1921. Serial No. 155,963.

Honest Leather

Particular description of goods.—Harness, Saddles, and Horse Collars.
Claims use since Aug. 20, 1912.

159,190. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ILLINOIS WATCH CASE COMPANY, Elgin, Ill. Filed Dec. 6, 1920. Serial No. 140,651.

STRATFORD

Particular description of goods.—Watch Movements.
Claims use since March, 1914.

159,191. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL CORN PRODUCTS CORPORATION, Detroit, Mich. Filed Nov. 21, 1921. Serial No. 155,692.

Candy Pops

The lining on the drawing indicates the color red.
Particular description of goods.—A Candy Consisting of Pop Corn, Fruit, and Nuts.
Claims use since Feb. 1, 1919.

159,192. (CLASS 39. CLOTHING.) JACKIE-KLOTHES, INC., Brooklyn, N. Y. Filed Mar. 22, 1922. Serial No. 161,050.

Jackie-Klothes

Particular description of goods.—Boys' and Girls' Middy Suits.
Claims use since Mar. 5, 1921.

159,193. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) INDIANA INDESTRUCTIBLE PAINT CO., Chicago, Ill. Filed Feb. 27, 1920. Serial No. 128,968.

WOOD-KOTE

Particular description of goods.—Combined Stain and Floor Varnish.
Claims use since Nov. 20, 1909.

159,194. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KNICKERBOCKER CHOCOLATE CO., New York, N. Y. Filed Jan. 12, 1922. Serial No. 157,839.

Sportsman's "Chocolate-Bracer"
"A MAN'S CHOCOLATE"

Particular description of goods.—Prepared Edible Chocolate.
Claims use since Mar. 4, 1915.

159,195. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) MAURICE A. KNIGHT, East Akron, Ohio. Filed June 13, 1922. Serial No. 165,453.

MAURICE A. KNIGHT ACID PROOF CHEMICAL STONEWARE

Particular description of goods.—Acid-Proof Chemical Stoneware.
Claims use since July, 1917.

159,196. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. KOHNSTAMM & CO., INC., New York, N. Y. Filed May 9, 1922. Serial No. 163,585.

BLUFIXE SOUR

Particular description of goods.—Launderer's Materials—Namely, Neutralizers and Bleachers.
Claims use since Nov. 29, 1916.

159,197. (CLASS 39. CLOTHING.) LEHIGH SILK HOSIERY MILLS, INC., New York, N. Y. Filed Feb. 1, 1922. Serial No. 158,718.

LEHIGH

Particular description of goods.—Hosiery.
Claims use since January, 1907.

159,198. (CLASS 39. CLOTHING.) LEHIGH SILK HOSIERY MILLS, INC., New York, N. Y. Filed Feb. 1, 1922. Serial No. 158,719.

LEHIGH

Particular description of goods.—Hosiery.
Claims use since February, 1913.

159,199. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 13, 1922. Serial No. 163,807.

KENNEBEC

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since October, 1901.

159,200. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 13, 1922. Serial No. 163,811.

Granite State

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since October, 1906.

159,201. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 13, 1922. Serial No. 163,812.

Sitka

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since January, 1898.

159,202. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 23, 1922. Serial No. 165,925.

FIELD BOUQUET

Particular description of goods.—Toilet Soap.
Claims use since October, 1920.

159,203. (CLASS 39. CLOTHING.) ADOLPH MEYER, Chicago, Ill. Filed Jan. 30, 1922. Serial No. 158,637.

PEPPY-ANN
Frocks for Misses Juniors Flappers

Particular description of goods.—Ladies' and Children's Dresses and Cloaks Made of Silk, Satin, and Cloth.
Claims use since Sept. 15, 1920.

159,204. (CLASS 2. RECEPTACLES.) MID-WEST BOX COMPANY, Anderson, Ind., and Chicago, Ill. Filed Jan. 14, 1922. Serial No. 157,933.

PROTECTALL

Particular description of goods.—Garment-Storage Receptacles and Wrappers for Bottles and Lamp Chimneys.
Claims use since May, 1914.

159,205. (CLASS 39. CLOTHING.) H. MILGRIM & BROS. INC., New York, N. Y. Filed Mar. 18, 1922. Serial No. 160,895.

MILGRIM

Particular description of goods.—Gowns, Frocks, Tailored Suits, and Furs for Women.
Claims use since January, 1917.

159,206. (CLASS 39. CLOTHING.) A. E. NETTLETON COMPANY, Syracuse, N. Y. Filed Feb. 2, 1922. Serial No. 158,792.

SHOES OF WORTH

Particular description of goods.—Shoes Made of Leather.
Claims use since September, 1920.

159,207. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GEO. B. ODIORNE, Philadelphia, Pa. Filed June 7, 1922. Serial No. 165,151.

Kleen-Type

Particular description of goods.—Solution for Cleaning Type.
Claims use since Mar. 1, 1920.

159,208. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE OHIO CHEMICAL & MANUFACTURING CO., Cleveland, Ohio. Filed May 6, 1922. Serial No. 163,465.

OHIO

Particular description of goods.—Nitrous Oxid, Oxygen.
Claims use since July, 1919.

159,209. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE OSHKOSH TRUNK COMPANY, Oshkosh, Wis. Filed Apr. 22, 1921. Serial No. 146,580.

Land-or-Sea

Particular description of goods.—Wardrobe Trunks.
Claims use since Apr. 2, 1921.

159,210. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PASSAIC PRINT WORKS, Passaic, N. J. Filed Dec. 7, 1921. Serial No. 156,408.

STRATFORD

Particular description of goods.—Cotton Piece Goods.
Claims use since November, 1911.

159,211. (CLASS 39. CLOTHING.) T. A. PETTIS COMPANY, Providence, R. I. Filed Mar. 14, 1922. Serial No. 160,676.

NV-BO

The portions of the characters within their outlines are red.
Particular description of goods.—Neckties and Scarfs.
Claims use since July, 1919.

159,212. (CLASS 5. ADHESIVES.) PERCY A. PORTEOUS, Cleveland, Ohio. Filed May 9, 1921. Serial No. 147,454.

TIME SAVER

Particular description of goods.—Compound for Patching Tubes and Rubber Goods.
Claims use since Apr. 11, 1921.

159,213. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ROSSLYN PACKING CO., Rosslyn, Va. Filed July 1, 1921. Serial No. 149,930.

OLD VIRGINIA

Particular description of goods.—Hams, Bacon, Lard, Frankfurters, Sausage, and Pigs' Feet.
Claims use since January, 1921.

159,214. (CLASS 39. CLOTHING.) ROYAL WORCESTER CORSET COMPANY, Worcester, Mass. Filed Aug. 5, 1921. Serial No. 151,477.

Snap-On

Particular description of goods.—Flap Attachments for Corsets.
Claims use since June 20, 1921.

159,215. (CLASS 39. CLOTHING.) SALOMON STERN LTD., OF AMERICA, New York, N. Y. Filed Sept. 19, 1921. Serial No. 153,114.

Westminster

Particular description of goods.—Hosiery.
Claims use since May 21, 1921.

159,216. (CLASS 39. CLOTHING.) SARGENT SHOE COMPANY, Lynn, Mass. Filed Feb. 15, 1922. Serial No. 159,387.

Sargent PEDICURE

Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since June 30, 1921.

159,217. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JOHN H. STARBIRD, Seattle, Wash. Filed Mar. 20, 1922. Serial No. 160,979.

STARBIRD
ICE CREAM HIGH-BALL

Particular description of goods.—Nonalcoholic, Maltless Beverages, Sold as Soft Drinks, and Sirups Therefor.
Claims use since May 15, 1921.

159,218. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CHAS. A. SCHIEREN COMPANY, New York, N. Y. Filed Apr. 19, 1922. Serial No. 162,591.

WHITE OAK

Particular description of goods.—Leather Belting.
Claims use since January or February, 1900.

159,219. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Dec. 15, 1921. Serial No. 156,754.

SHERWIN-WILLIAMS
MODERN METHOD

Particular description of goods.—Paints (Dry, Ready-Mixed, Paste, or Semipaste), Paint Enamels, Primers, Fillers (for Wood, Metal, and Other Surfaces).
Claims use since Jan. 10, 1900.

159,220. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Dec. 15, 1921. Serial No. 156,755.

S-W M. M. CAR PRIMER

Particular description of goods.—Paints (Dry, Ready-Mixed, Paste, or Semipaste), Paint Enamels, Primers, Fillers (for Wood, Metal, and Other Surfaces).
Claims use since Sept. 19, 1913.

159,221. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Dec. 15, 1921. Serial No. 156,756.

S-W CAR BODY COLORS

Particular description of goods.—Paints (Dry, Ready-Mixed, Paste, or Semipaste), Paint Enamels, Primers, Fillers (for Wood, Metal, and Other Surfaces).
Claims use since July 6, 1875.

159,222. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Dec. 15, 1921. Serial No. 156,757.

S-W M. M. CAR SURFACER

Particular description of goods.—Paints (Dry, Ready-Mixed, Paste, or Semipaste), Paint Enamels, Primers, Fillers (for Wood, Metal, and Other Surfaces).
Claims use since June 12, 1916.

159,223. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed June 6, 1921. Serial No. 148,772.

SHERWIN-WILLIAMS
EG-SHEL
THE MILL WHITE

Particular description of goods.—Paints (Ready-Mixed and Paste) Drying with a Semigloss Finish.
Claims use since May 24, 1921.

159,224. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SMITH MFG. CO., Utica, N. Y. Filed May 4, 1922. Serial No. 163,360.

SMITH
STAINLESS

Particular description of goods.—Spraying Solution.
Claims use since Jan. 1, 1921.

159,225. (CLASS 39. CLOTHING.) STANDARD FELT COMPANY, West Alhambra, Calif. Filed Feb. 11, 1922. Serial No. 159,225.

FELTWEAR

Particular description of goods.—Shoes, Boots, and Slippers, Made of Felt.
Claims use since September, 1918.

159,226. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) STANLEY & AYLWARD, LIMITED, Toronto, Canada. Filed Dec. 9, 1921. Serial No. 156,505.

Norman Plate

Particular description of goods.—Flat and Hollow Ware for Table and Toilet Use, and Automobile Fittings, as Follows: Handles, Brackets, Latches, Knobs, Buttons, Vases, Electric-Light Sockets, and Rug Racks, Which Articles are Plated with Precious Metal.
Claims use since Aug. 19, 1919.

159,227. (CLASS 39. CLOTHING.) STEINER & SON, INC., Asbury Park, N. J. Filed Dec. 13, 1921. Serial No. 156,662.

UNIVERSAL
RADIUM FINISH

Particular description of goods.—Sleeping Garments.
Claims use since 1914.

159,228. (CLASS 39. CLOTHING.) STRAUS MFG. CO., Erie, Pa. Filed July 25, 1921. Serial No. 150,935.

WARRANTED
NOT ERIE TO
OVERALLS
RIP

Particular description of goods.—Overalls.
Claims use since 1882.

159,229. (CLASS 39. CLOTHING.) STRAUS MFG. CO., Erie, Pa. Filed July 25, 1921. Serial No. 150,936.

Erie Pants

Particular description of goods.—Knee Pants.
Claims use since 1882.

159,230. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) SUCCESS HEATER AND MANUFACTURING COMPANY, Des Moines, Iowa. Filed July 5, 1921. Serial No. 150,036.

HEAVY DUTY
SERVICE
HEATER

Particular description of goods.—Warm-Air Heaters and Furnaces.
Claims use since Feb. 20, 1921.

159,231. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) SUCCESS HEATER AND MANUFACTURING COMPANY, Des Moines, Iowa. Filed July 5, 1921. Serial No. 150,038.

SERVICE
HEATER

Particular description of goods.—Warm-Air Heaters and Furnaces.
Claims use since Feb. 20, 1921.

159,232. (CLASS 39. CLOTHING.) THE TAYLOR BRAMLEY CO., Chicopee, Mass. Filed Feb. 7, 1922. Serial No. 159,002.

"TAYLORMADE"

Particular description of goods.—Infants' and Children's Clothing—Namely, Shirts and Bellybands.
Claims use since July 1, 1920.

159,233. (CLASS 39. CLOTHING.) UTICA DUXBAK CORPORATION, Utica, N. Y. Filed Feb. 20, 1922. Serial No. 159,636.

Utica

Particular description of goods.—Garments for Men and Women—Namely, Coats, Vests, Pants, Leggings, Hats, Skirts, Breeches, Puttees, Hat Caps, Middies, Divided Skirts, Riding Pants and Habits, Trap-Shooters' Jackets, Ladies' Shell Skirts, Bloomers, Hunting Coats, Havelock Caps, Norfolk Jackets, Gabardines.
Claims use since 1911.

159,234. (CLASS 12. CONSTRUCTION MATERIALS.) VIGO-AMERICAN CLAY COMPANY, Terre Haute, Ind. Filed Aug. 30, 1921. Serial No. 152,404.

HEAVY-DUTY

Particular description of goods.—Hollow Building Tile.
Claims use since July 19, 1921.

159,235. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HENRY VISCARDI, New York, N. Y. Filed July 27, 1921. Serial No. 151,027.

Viscardi's LISTERATED SHAVING CREAM

Particular description of goods.—Shaving Cream in the Nature of a Soap Paste.
Claims use since Mar. 25, 1921.

159,236. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed Apr. 18, 1921. Serial No. 146,343.

BRILLIANTINE CRISTALLISÉE

Particular description of goods.—Preparation for Producing a Glossy Effect Upon the Hair.
Claims use since Apr. 4, 1921.

159,237. (CLASS 39. CLOTHING.) LEON WALLACE & SONS, New York, N. Y. Filed Dec. 27, 1921. Serial No. 157,194.

ThermoBand

Particular description of goods.—Men's and Boys' Caps.
Claims use since on or about July 1, 1920.

159,238. (CLASS 39. CLOTHING.) WEAR WELL BRASSIERE CO., New York, N. Y. Filed Feb. 17, 1922. Serial No. 159,452.

WEAR WELL

Particular description of goods.—Brassières.
Claims use since Oct. 1, 1920.

159,239. (CLASS 39. CLOTHING.) WELMAYDE MUSLIN U'WEAR CO., Yonkers, N. Y. Filed Nov. 8, 1921. Serial No. 155,207.

WELMAYDE

Particular description of goods.—Children's and Misses' Muslin Underwear in One, Two, and Three Piece Garments.
Claims use since Apr. 4, 1917.

159,240. (CLASS 2. RECEPTACLES.) WERTHEIMER BAG CO., Birmingham, Ala. Filed Mar. 28, 1921. Serial No. 145,377.

C-LECT

Particular description of goods.—Burlap and Cotton Bags.
Claims use since Feb. 20, 1921.

159,241. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed Sept. 30, 1920. Serial No. 137,794.

"Justrite"

Particular description of goods.—Hot-Water Bottles, Rubber Tubing for Use with Hot-Water Bags and Syringes, Autopsy Gloves, Catheters, Ear and Ulcer Syringes, Crutch Tips, Atomizers, Ice Caps, Invalid Rings, Fountain Syringes, Combination Attachments for Use with Hot-Water Bags and Syringes, Nurses' Rubber Gloves, Colon Tubes, Infant Syringes, Finger Cots, Throat Bags, Douche Syringes, Surgeons' Rubber Operating Gloves, Hard-Rubber Syringes, Stomach Tubes, Nursing Nipples, Bandages, Rubber Sheets Cut and Ready for Use, Spinal Ice Bags.
Claims use since Jan. 1, 1905.

159,242. (CLASS 15. OILS AND GREASES.) THE WHITE TAR COMPANY, New York, N. Y. Filed June 14, 1921. Serial No. 149,160.

MasterCraft

Particular description of goods.—Candles.
Claims use since Dec. 16, 1920.

159,243. (CLASS 39. CLOTHING.) WIMELBACHER & RICE, New York, N. Y. Filed Dec. 8, 1921. Serial No. 156,474.

CHAMOISUEDE

Particular description of goods.—Fabric Gloves.
Claims use since January, 1914.

159,244. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WRIGHT MANUFACTURING COMPANY, Minneapolis, Minn. Filed Nov. 1, 1921. Serial No. 154,908.

RITEFIT

Particular description of goods.—Pistons Used for Truck, Tractor, Automobile, and Stationary Engines.
Claims use since Apr. 24, 1920.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

DOSENBACH v. WEBSTER.

No. 1477. Decided February 6, 1922.

[278 Fed. Rep., 395.]

PATENTS—INTERFERENCE—PROCESS FOR CONCENTRATING ORES.

In interference proceedings involving an invention of a process for concentrating copper ores evidence *Held* to show that the essential feature of the invention was the precipitation of copper in a metallic state to be thereafter separated by some known process, so that a party who, before the conception of the other, had conceived only the idea of separating the metallic copper from the ore by flotation did not show a conception of the invention in issue.

Mr. John M. Coit, Mr. James A. Watson, and *Mr. J. Edgar Bull* for the appellant.

Mr. Archibald Cox, Mr. Harry A. English, and *Mr. William G. Henderson* for the appellee.

VAN ORSDEL, *J.:*

This appeal is in an interference proceeding in which the tribunals of the Patent Office concurred in awarding priority of invention to appellee Webster.

The invention in issue is set forth in eleven counts. The following two of which are illustrative:

1. A concentration process comprising the operations of leaching the ore, precipitating the dissolved metal in the metallic state in the ore, and separating such precipitated metal from the ore by flotation.

7. The process of extracting copper from its ore, comprising comminuting the ore, mixing the ore with a copper solvent, and precipitating the copper from the solvent in the form of metallic copper; and separating the metallic copper from the ore pulp by concentration.

The invention is described in the opinion of the Assistant Commissioner as follows:

The subject matter of this interference is a process for treating copper ores and particularly those known as oxide ores which are not susceptible of concentration by the flotation process commonly used with sulphide ores. The process consists in grinding the ore, treating the ground material with sulphuric acid to dissolve the copper values present in the ore, introducing metallic iron which combines with the copper sulphate, forming iron sulphate and precipitating the copper, and in separating the precipitated copper by concentration, by gravity or by flotation.

Appellant Dosenbach claims to have conceived and reduced the invention to practice in November, 1914, while Webster claims to have conceived the idea of concentrating the ores and precipitating the dissolved metal into the pulp in October, 1914. The parties, however, seem to differ as to the real gist of the invention here involved. Dosenbach's conception seems to have been limited to the idea of separating the metallic copper from the ore by flotation, while Webster seems to have directed his energies toward the process of precipitating the copper in a metallic state to be separated by some known process. On this point we agree with the Commissioner that precipitation is the essential step in the invention and that

flotation might be replaced by some other method of concentration without destroying the process in issue.

We think, therefore, that Dosenbach has failed to show even conception of the essential feature of the invention in issue on the dates claimed by him. On the other hand Webster's dates are well corroborated and his efforts were directed to the development of the invention of the issue. Indeed, the present contention of Dosenbach that separation by flotation constitutes the chief feature of the invention is not consistent with his original specification wherein he seems to treat the matter of flotation as a secondary feature. In his specification he states—

my process is not restricted to the use, or non-use, or the use of any particular floating agent, and includes the operation regardless of whether the flotation be affected by the addition of frothing agents or by the properties imported to the pulp by the various salts formed in the leaching operation.

He also refers in his specification to affecting flotation "in any of the well known forms of apparatus * * * or by means of jets" as illustrated in the prior art.

Without stopping to review the testimony, we are of the opinion that Webster, as unanimously found by the tribunals below, has clearly established his claim to priority.

The decision of the Commissioner is affirmed.

Affirmed.

In the absence of Mr. Chief Justice SMYTH, Mr. Justice HOEHLING of the Supreme Court of the District of Columbia participated in the hearing and disposition of this case.

Court of Appeals of the District of Columbia.

DOSENBACH v. WEBSTER.

No. 1478. Decided February 6, 1922.

[278 Fed. Rep. 397.]

1. PATENTS—INTERFERENCE—CONCEPTION OF INVENTION.

In interference proceedings involving an invention of a process for concentrating copper ores where sulphide and nonsulphide ores were mixed evidence that

the experiments of the prior inventor were conducted with ore from the mine which produced a mixture of sulphide and nonsulphide ores *Held* to establish the conception of the invention in issue, though there was nothing in the record to show he conceived the idea of applying the process to such mixed ores.

2. SAME—SAME—PATENT GIVEN NO ADVANTAGE OVER COPENDING APPLICATION.

A patentee is entitled in interference proceedings to no advantage from the issuance of his patent where the interfering applications were copending in the Patent Office.

Mr. John M. Coit, Mr. James A. Watson, and *Mr. J. Edgar Bull* for the appellant.

Mr. Archibald Cox, Mr. Harry A. English, and *Mr. William G. Henderson* for the appellee.

VAN ORSDEL, *J.*:

This appeal is from the decision of the Commissioner of Patents awarding priority of invention to appellee Webster.

The interference is between a patent to Dosenbach issued June 11, 1918, on an application filed March 7, 1918, and an application of Webster, filed January 23, 1917.

This is a companion interference to No. 1477, just decided. Dosenbach's application here involved, was a division of his application in the companion case. The present interference is submitted on proofs presented in No. 1477. The interference is in two counts, as follows:

1. A process of concentrating ores containing copper in different chemical compounds, one of such compounds being sulphide of copper, which consists in subjecting the ore to the action of a solvent which causes the nonsulphide copper to go into solution while leaving the sulphide copper substantially unaltered, precipitating the dissolved copper in the metallic state in the mixture of ore and solvent, and then separating the precipitated copper and sulphide copper from the gangue by flotation.

2. A process for concentrating ores containing sulphide copper and compounds of copper that are convertible in sulphates by the action of sulphuric acid comprising the operations of subjecting the ore to the action of sulphuric acid forming copper sulphate, precipitating the copper in the metallic state in the mixture of ore and acid, and then separating the precipitated copper and the sulphide copper from the gangue by flotation.

The same process is involved in this interference as in the companion case, but in the present case it is applied to ores containing both sulphide copper and nonsulphide, which may be converted into sulphates by the action of sulphuric acid. It is urged by counsel for Dosenbach that there is nothing in the record to show that Webster conceived the idea of applying the process to ores which contained sulphides as well as nonsulphides, and the Examiner and Board of Examiners in Chief held that inasmuch as the record fails to show that Webster conceived the idea of applying the process of the companion case to ores which contain both sulphides and nonsulphides, that he must be confined to his record date, which is subsequent to the original application of Dosenbach.

We are not impressed with this contention since the evidence discloses that the process was invented by Webster to solve the problem of treating ores from Bullwhacker Mine, at Butte, Montana, and that this ore, while predominantly oxide, contained sulphide copper. It also appears that Webster had made considerable study of the most approved methods of flotation, and that the ores treated by him at the East Butte Mine, were sulphide copper. Dosenbach is entitled to no advantage from the issuance of his patent since the applications were copending in the Patent Office. The process described in the claims combine three steps, *first*, subjecting the comminuted mixture of sulphide and nonsulphide ore to the action of sulphuric acid to dissolve the copper; *second*, introducing a copper precipitant into the solvent to precipitate the dissolved copper as metallic copper into the pulp; *third*, floating out the metallic and sulphide copper.

In determining who is the inventor of this process, it is only necessary to consider the new and patentable features of the invention. The first and third steps are old in the art. The invention, therefore, resides in the second step, namely, in precipitating the solvent in the form of metallic copper into the pulp. This is the invention involved in the companion interference in which we have held that Webster is entitled to priority. To award priority in this interference to Dosenbach, would be inconsistent without holding in the other case. As was said by the Commissioner,

an award of priority of the issue herein gives Dosenbach rights excluding Webster, the winning party in the earlier interferences, from using his prior invention on the ores he treated in his experiments which the evidence here considered has been uniformly held to show reduction to practice prior to Dosenbach.

The decision of the Commissioner of Patents is affirmed.

In the absence of Mr. Chief Justice SMYTH, Mr. Justice HOEHLING of the Supreme Court of the District of Columbia participated in the hearing and disposition of this case.

Court of Appeals of the District of Columbia.

WIDMER *v.* SIPP.

No. 1481. Decided April 3, 1922.

[280 Fed. Rep., 460.]

PATENTS—INTERFERENCE—DOMINATING FEATURE OF INVENTION.

Evidence reviewed and award of priority to senior party Sipp affirmed except as to count 6, which covered particularly planetary gearing, which was *Held* to be not a mere ancillary improvement on the regular machines of the company, but a dominating feature of the invention, as to which Widmer was entitled to priority.

Mr. Grafton L. McGill and *Mr. Francis S. Maguire* for the appellant.

Mr. John W. Stewart for the appellee.

ROBB, *J.*:

Appeal from a decision of the Patent Office in an interference proceeding awarding priority of invention to the senior party and patentee Sipp, who filed no preliminary statement, and took no testimony, and who therefore is restricted to his filing date, July 10, 1917, for conception and constructive reduction to practice.

The invention, as described by the Assistant Commissioner,

is an automatic feed mechanism for drill-presses. The drill carrier is normally held in its uppermost position by suitable spring devices, and is started downwardly by the operator, but, when it reaches a predetermined position,

a connection is made automatically whereby it is power fed a definite distance and then automatically released and returned to its normal elevated position.

Of the seven counts of the interference, the 1st and 6th are sufficiently illustrative and are here reproduced:

1. In combination, the frame, a tool-carrier including means movable in a definite direction therein, a going driving means, and a power-transmitting coupling to connect said means with each other including a master member movable to one position to make, and to another position to break, the coupling and normally occupying one of said positions, said first-named means having means to move the master member during the movement in one direction of said first means.

6. In combination, the frame, a tool-carrier including train including a rotary driven member, a rotary driving gear member, a free rotary gear, said members and the gear being concentric, a pinion meshing with the gear, and journaled in one and meshing with the other of said members, and a rotation preventing detent device for the gear movable into and out of locking relation thereto and actuable by part of said train.

In October of 1913 Widmer, who was highly skilled in this art, entered into a contract with the Sipp Machine Company, of which appellee was president, to develop and build a model of a sensitive drill-press and to sell the same when manufactured by the company. This contract was to remain in force until September 8, 1918, but on June 3, 1916, a second contract was entered into between the parties which provided that the first contract was to expire on September 7th, following, when the second contract was to take effect. This second contract related to the sale by Widmer to the trade of "quick change speed sensitive drilling machines" and other machine tools then being manufactured by the company. There is no express provision in either contract as to who shall have title to any inventions that may be made.

In the fall of 1916 Widmer, who was endeavoring to devise a drill-press of this sort, obtained the services of the company's expert draftsman Zabriske, who, under Widmer's directions, prepared drawings of the invention which are in evidence in this interference. Thereupon a machine substantially like the drawings was constructed early in January of 1917 and tested in the factory of the company, where Zabriskie and others saw it operated. It then was sent to New York, where it was exhibited at the automobile show. Mr. Widmer testified that one order was received from "a Mr. Edge, at that time general superintendent of the Locomobile Company, at Bridgeport, Connecticut,"; that Mr. Humphreys, his assistant, was with him at the time and that while the order placed was verbal it later was "confirmed by a regular order from the company." This order, according to the recollection of the witness, "was filled some time in March, 1917." No attempt was made to meet this testimony, although the means were at hand had the testimony been incorrect. The machine subsequently constructed, while differing somewhat in mechanical detail, was not patentably different from the earlier machine. As stated by the Examiner of Interferences,

the step from the first to the second form of the invention was no more than the embodiment of the same broad invention in another species.

The Examiner further said:

It is clear from the record that he (Widmer) alone originated the broad invention in the first machine * * *.

The Examiner therefore awarded priority to Widmer as to all the counts.

The Examiners in Chief were satisfied that the operation of the earlier machine constituted reduction to practice and so ruled. But, while satisfied that Widmer was the inventor of the subject matter of count 6, which relates particularly to the planetary gearing, the Examiners ruled against him on the ground that this invention was but an ancillary improvement on the regular machines of the company, and hence inured to the company's benefit under the doctrine of employer and employee. The views of the Assistant Commissioner did not differ materially from those of the Board.

We are unable to accept the view that the structure disclosed by count 6 constitutes but an ancillary invention. On the contrary, we are of opinion that the planetary gearing disclosed by this claim constitutes the most essential and dominating feature of the invention, and therefore that Widmer is entitled to priority as to this claim. As to the other claims, however, we do not think Widmer has sustained the heavy burden of proof resting upon him. The question whether, as to count 6, the Sipp Machine Company will be entitled to an assignment of the patent, is not here.

The decision is affirmed as to counts 1, 2, 3, 4, 5 and 7, but reversed as to count 6.

Affirmed as to counts 1, 2, 3, 4, 5 and 7.

Reversed as to count 6.

Mr. Chief Justice SMYTH dissents as to claim 6 and concurs as to claims 1, 2, 3, 4, 5 and 7.

Court of Appeals of the District of Columbia.

IN RE PLUMLY.

No. 1459. Decided June 5, 1922.

PATENTS—PUBLIC USE OR SALE.

Where appellant operated his machine for at least twelve years before he applied for a patent and the conditions surrounding the operation were such that a knowledge of the invention must become common, *Held* that appellant was properly refused a patent on the ground of public use of the invention for more than two years prior to the filing of his application.

Mr. E. H. Fairbanks for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

ROBB, *J.*:

Appeal from a decision of the Patent Office refusing to allow the claims of appellant's application on the ground of public use for more than two years prior to the filing of the application.

The invention covers a machine for making paper pill boxes, and, as stated by the tribunals of the Patent Office, is quite easily understood by any one at all familiar with mechanics or the operation of such machines. This application was in interference with an application of James W. Hughes, and that interference resulted in the rejection of the claims of both parties on the ground of public use. The evidence very clearly shows that Mr. Plumly, the appellant, operated his machine for at least twelve years before he applied for a patent, that his

operatives were under no injunction of secrecy, and that conditions surrounding the operation were such that knowledge of the invention must have become common. The tribunals of the Patent Office have reviewed this evidence and we adopt their reasoning and conclusion. (See *Andrews* v. *Hovey*, 123 U. S., 267; 188 C. D., 275; 124 U. S., 694; 1887 C. D., 633.)

The decision is affirmed.

Affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Mich.) The D'Arcy patent, No. 1,172,344, for cushion structure, *Held* not infringed. *Marshall Ventilated Mattress Co.* v. *D'Arcy Spring Co.*, 280 Fed. Rep., 945.

(U. S. C. C. A. Mich.) The Genge patent, No. 1,246,081, for spring cushion, *Held* valid and infringed. *Marshall Ventilated Mattress Co.* v. *D'Arcy Spring Co.*, 280 Fed. Rep., 945.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

366,362, G. Westinghouse, jr., Electrical converters, decree reversed and causes remanded May 5, 1922, U. S. C. C. A., 8th Cir., *Westinghouse Electric & Mfg. Co.* v. *Wagner Electric Mfg. Co.*

849,379, J. V. N. Dorr, Ore classifiers, suit filed June 5, 1922, U. S. D. C., D. Colo., Doc. 7031, *The Dorr Co.* v. *The Morse Bros. Machinery & Supply Co.* Defendant restrained by stipulated decree Aug. 18, 1922.

867,958, J. V. N. Dorr, Decanting apparatus, suit filed June 5, 1922, U. S. D. C., D. Colo., Doc. 7030, *The Dorr Co.* v. *The Morse Bros. Machinery & Supply Co.* Defendant restrained by stipulated decree Aug. 18, 1922.

884,514, A. H. Miller, Automatic electric switch, suit filed Aug. 29, 1922, U. S. D. C., N. D. N. Y., Doc. 382, *U. S. Devices Corp* v. *The Ryan Corp.*

891,045, A. B. Diss, Casters for furniture, suit filed Aug. 24, 1922, U. S. D. C., S. D. N. Y., Doc. E 24–256, *Bassick Co.* v. *Faultless Caster Co.*

958,478, W. E. Davey, Process of reinforcing trees, suit filed July 10, 1922, U. S. D. C., E. D. Wis., Doc. 1249, *The Davey Tree Expert Co.* v. *F. M. Fowler.* Consent decree entered July 29, 1922. Same, suit filed Aug. 30, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 417, *The Davey Tree Expert Co.* v. *D. M. Neeson* (*Carleton & Neeson*).

966,788, G. W. Bent, Caster, suit filed Aug. 24, 1922, U. S. D. C., S. D. N. Y., Doc. E 24–255, *G. W. Bent & Bassick Co.* v. *Faultless Caster Co.*

1,035,544, 1,035,820, W. W. Dake, Elastic-fluid turbine engines; 1,101,619, C. W. Dake, Turbines; 1,134,317, Unbalanced valve for turbine engines; 1,145,565, Motor-generator sets, decree affirmed June 21, 1922, U. S. C. C. A., 8th Cir., *The Pyle National Co.* v. *Oliver Electric Mfg. Co.*

1,035,820. (See 1,035,544.)

1,101,619. (See 1,035,544.)

1,131,222, J. V. N. Dorr, Agitators, suit filed June 5, 1922, U. S. D. C., D. Colo., Doc. 7032, *The Dorr Co.* v. *The Morse Bros. Machinery & Supply Co.* Defendant restrained by stipulated decree Aug. 18, 1922.

1,134,317. (See 1,035,544.)

1,145,565. (See 1,035,544.)

1,180,799, R. A. Stranahan, Spark plug, No. 5851, appeal dismissed for want of jurisdiction, May 15, 1922, U. S. C. C. A., 8th Cir., *Champion Spark Plug Co.* v. *Myles Standish Mfg. Co.* Same, No. 5811, decree modified May 15, 1922, U. S. C. C. A., 8th Cir. *Myles Standish Mfg. Co.* v. *Champion Spark Plug Co.*

1,219,254, S. J. Clulee, Art of making eyeglass rims; 1,366,768, Construction for eyeglasses; 1,384,862, E. L. Schumacher & W. H. Boutelle, Ophthalmic mountings, suit filed Aug. 29, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 414–C, *American Optical Co. et al.* v. *Shur-On Optical Co., Inc.* Same, suit filed Aug. 29, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 415–C, *American Optical Co. et al.* v. *Kirstein Optical Co., Inc.*

1,225,682, J. Schulde, Refrigerators, suit filed June 24, 1922, U. S. C. C. A., 8th Cir., Doc. 6119, *Goodman & Cohen* (*Modern Fixture Co.*) v. *H. L. Hussman Refrigerator & Supply Co.*

1,255,658, W. W. Stephens, Carrier for belt conveyors, suit filed Aug. 24, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 773, *Stephens-Adamson Mfg. Co.* v. *The Stearns Conveyor Co.*

1,263,879, A. Gerosa, Lug for power-plant supports for motor vehicles, suit filed Aug. 29, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 416–C, *A. Gerosa et al.* v. *J. Strauss Co.*

1,366,768. (See 1,219,254.)

1,371,573, G. Primbs, Banking forms, suit filed Aug. 19, 1922, U. S. D. C., D. Oregon, Doc. E 8614, *Geo. Primbs & Sons, Inc.* v. *The Irwin-Hodson Co.*

1,384,862. (See (1,219,254.)

1,416,423, W. B. Sewell, Wings for windshields, suit filed Aug. 25. 1922, U. S. D. C., D. Colo., Doc. 7398, *The Sewell-Hunt Mfg. Co., Inc.* v. *The Gaines-Erb Mfg. Co.*

1,426,010, F. W. Rees, Mirror attachments for vehicles, suit filed Aug. 24, 1922, U. S. D. C., W. D. Wash. (N. Div.), Doc. 303 E., *Sees-All Mfg. Co.* v. *F. W. Rees & H. H. Welbon* (*Modern Mfg. Co.*)

Reissue 14,383, (original No. 1,147,307), F. M. Case, Cleaner, suit filed Aug. 5, 1922, U. S. D. C., E. D. Wis., Doc. 1256, *The Hoover Suction Sweeper Co.* v. *Hamilton Beach Mfg. Co.*

Design 57,423, P. I. Ansorge, Lighting-fixture part, suit filed Aug. 30, 1922, U. S. D. C., S. D. N. Y., Doc. E 24–264, *Empire Lighting Fixture Co.* v. *Practical Lighting Fixture Co.*

Patents Nos. 1,429,915 to 1,430,525.

THE
OFFICIAL GAZETTE
OF THE
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Vol. 302—No. 4. TUESDAY, SEPTEMBER 26, 1922. Price—$5 per year.

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Issue of September 26, 1922.

Patents	611—No.	1,429,915 to No.	1,430,525, inclusive.
Designs	14—No.	61,515 to No.	61,528, inclusive.
Trade-Marks	406—No.	159,245 to No.	159,650, inclusive.
Reissues	5—No.	15,458 to No.	15,462, inclusive.
Total	1036		

ADJUDICATED PATENTS.

(U. S. D. C. Del.) The Gee patent, No. 1,082,419, for a mechanical stoker for locomotives, not infringed. *Locomotive Stoker Co.* v. *Elvin Mechanical Stoker Co.*, 281 Fed. Rep., 195.

(U. S. D. C. Conn.) The Holland patent, No. 1,167,499, claim 1, for improvement in primary batteries, *Held* not anticipated and infringed. *Thomas A. Edison, Inc.* v. *Waterbury Battery Co.*, 281 Fed. Rep., 254.

(U. S. D. C. Conn.) The Hudson and Elmes patent, No. 1,061,541, claims 1 and 5, for improvements in primary batteries, *Held* valid, but not infringed. *Thomas A. Edison, Inc.* v. *Waterbury Battery Co.*, 281 Fed. Rep., 254.

(U. S. C. C. A. N. Y.) The Johnson patent, No. 896,059, for disk sound record for talking machines, *Held* void for lack of invention and for abandonment. *Victor Talking Machine Co.* v. *Starr Piano Co.*, 281 Fed. Rep., 60.

(U. S. C. C. A. N. Y.) The Niditch patent, No. 954,330, for railway signal fusee, *Held* void for lack of invention. *Central Ry. Signal Co.* v. *Unexcelled Mfg. Co.*, 281 Fed. Rep., 141.

(U. S. D. C. Del.) The Street patent, No. 1,130,443, for a mechanical stoker for locomotives, claims 1 and 2, infringed. *Locomotive Stoker Co.* v. *Elvin Mechanical Stoker Co.*, 281 Fed. Rep., 195.

(U. S. C. C. A. Mass.) The Tufford reissue patent, No. 14,040, claims 5–9, for rubber heel lift, construed so as to require hearing to determine infringement. *I. T. S. Rubber Co.* v. *Essex Rubber Co.*, 281 Fed. Rep., 5.

Adverse Decisions in Interference.

PATENT NO. 1,338,678.

On August 23, 1922, a decision was rendered that Donald Davidson was not the first inventor of the subject matter covered by claim 5 of his Patent No. 1,338,678, subject, "Method of stabilizing polysulfids and the products of such method," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,377,851.

On August 15, 1922, a decision was rendered that Parsons, Cook, and Douglas were not the first inventors of the subject matter covered by claims 1 and 2 of their Patent No. 1,377,851, subject, "Geared turbine system," and no appeal having been taken within the time allowed such decision has become final.

DESIGN PATENT NO. 58,360.

On August 24, 1922, a decision was rendered that John M. Hothersall was not the first inventor of the subject matter covered by the claim of his Patent No. 58,360, subject, "Design for talcum-powder box," and no appeal having been taken within the time allowed such decision has become final.

DESIGN PATENT NO. 58,367.

On August 24, 1922, a decision was rendered that John M. Hothersall was not the first inventor of the subject matter covered by the claim of his Patent No. 58,367, subject, "Design for talcum-powder box," and no appeal having been taken within the time allowed such decision has become final.

Changes in Classification.

(ORDER NO. 2,780.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 18, 1922.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 108, Roofs (Division XXXIII), establish the following subclass and definition:

33. Cleats and fasteners.

33. CLEATS AND FASTENERS. Devices for securing roofing materials in place.

Search this class, subclass 5.9.

Search Class—

85.—DRIVEN, HEADED, AND SCREW-THREADED FASTENINGS, appropriate subclasses, for analogous devices of general application.

The patents contained in this subclass have been taken from various subclasses in classes 85, Driven, Headed, and Screw-Threaded Fastenings, and 108, Roofs.

THOMAS E. ROBERTSON,
Commissioner.

Condition of Applications Under Examination at Close of Business September 16, 1922.

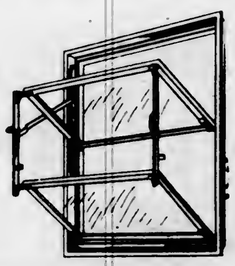
(Total number of applications waiting action, excluding Trade-Mark division, 70,137; Trade-Mark division, 7,825. Oldest new case, June 1; oldest amended, June 1, 1921. The dates given are 1921 except where * indicates 1922.)

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application by applicant awaiting office action. New.	Oldest amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	*Feb. 9	*Feb. 24	982
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	Oct. 3	Sept. 19	1,911
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 9	Aug. 19	1,119
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Oct. 26	*July 10	1,477
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 15	Nov. 21	1,192
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Dec. 5	*Mar. 30	1,472
212	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Nov. 22	*Jan. 24	2,286
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*June 9	*Aug. 5	876
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	Aug. 23	*July 26	1,147
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	*Feb. 3	*June 25	1,274
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Mar. 20	*Apr. 18	823
223	12. PIERCE, P. P., Machine Elements	*Mar. 21	*June 3	1,123
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Sept. 1	*June 7	1,547
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Oct 17	*June 12	1,219
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 17	Oct. 15	1,809
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Sept. 19	Sept. 13	2,507
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Oct. 5	*Apr. 3	1,463
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	Aug. 6	Aug. 13	2,455
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	Aug. 25	*Jan. 13	1,210
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Apr. 24	*May 6	1,556
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Dec. 3	*Apr. 25	942
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	*Mar. 1	*Apr. 8	684
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Aug. 11	Dec. 1	875
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Nov. 30	*Apr. 28	1,322
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*June 9	*June 16	523
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants	Oct. 10	*Feb. 20	1,089
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Oct. 24	Nov. 3	2,089
225	28. BENSON, A. R., Internal-Combustion Engines	Oct. 26	Nov. 23	1,648
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Dec. 28	*July 12	631
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Mar. 1	*July 18	1,348
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 29	Dec. 5	2,017
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Nov. 5	*May 12	1,021
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	*Jan. 11	*Apr. 6	902
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*May 9	*May 4	573
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Apr. 24	*Apr. 26	1,175
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Mar. 16	*Mar. 10	1,799
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Oct. 19	Nov. 25	1,916
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Nov. 2	Oct. 24	1,907
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	June 15	June 22	2,220
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Sept. 19	Oct. 3	2,547
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	*Apr. 7	*May 1	857
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Oct. 20	Sept. 10	2,051
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Oct. 28	Oct. 7	1,186
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 13	*Mar. 1	1,474
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	*Jan. 21	*Apr. 3	1,377
232	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 26	Dec. 8	1,277
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Nov. 15	*Apr. 1	1,289
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications	June 1	June 1	2,892
	49.	June 13	*July 21	1,058
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS—T. L. MEAD, JR.			
	Trade-Marks	Oct. 1	*May 3	5,533
	Designs	*Mar. 2	*May 11	2,150
	Labels and Prints	*Aug. 26	*Sept. 7	142

PATENTS

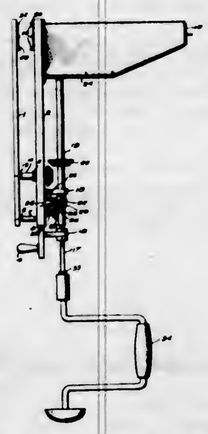
GRANTED SEPTEMBER 26, 1922.

1,429,915. METAL CASEMENT WINDOW AND METAL WEATHER STRIP THEREFOR. FRANK PAUL ANDERSON, Columbus, Ohio, assignor of one-half to George C. Urlin, Columbus, Ohio. Filed Aug. 6, 1920. Serial No. 401,693. 4 Claims. (Cl. 189—69.)



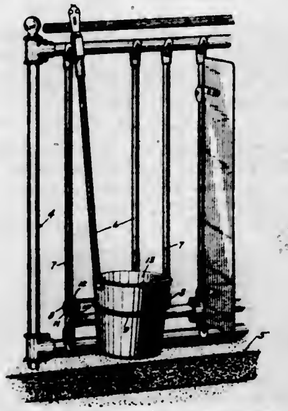
1. In a metal casement window, the combination of a metal Z-bar and a metal T-bar having a two-point contact with each other and having a space therebetween, a spring tongue secured to said Z-bar within said space and said tongue having a space between it and the Z-bar and a lip secured to said T-bar in said space and having a channel therein, and said tongue being adapted to detachably enter said channel and said lip being adapted to detachably enter said space between said tongue and said Z-bar, substantially as set forth and for the purposes specified.

1,429,916. BORING MACHINE. NELS ANDERSON, Flint, Mich. Filed July 21, 1921. Serial No. 486,641. 5 Claims. (Cl. 144—105.)



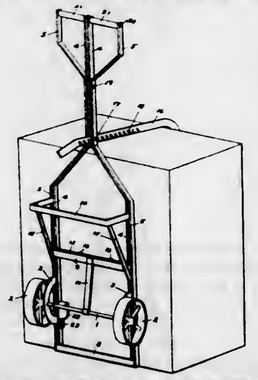
1. A boring device comprising a clamping element, formed of a pair of spaced members, a drive shaft supported by one of said members, disengageable means driven by said shaft to move said members toward and away from each other, a boring tool mounted at an angle to said members, and disengageable connecting means between said tool and said shaft to drive said tool.

1,429,917. PAIL HOLDER. ELMER T. ABENDROTH, De Pere, Wis., assignor to Hudson Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed May 24, 1920. Serial No. 383,612. 4 Claims. (Cl. 248—20.)



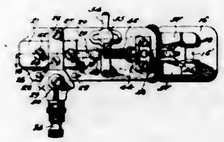
3. A pail holder comprising a substantially circular band with open ends extending in opposite directions and provided with vertically extending prongs, spaced standards and vertically and rotatively adjustable heads on said standards for receiving said prongs whereby the band can be expanded and contracted and raised and lowered.

1,429,918. HAND TRUCK. ERHARD ALLEN, Dayton, Ohio, assignor to The Dayton Display Fixture Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 26, 1921. Serial No. 439,964. 2 Claims. (Cl. 280—56.)



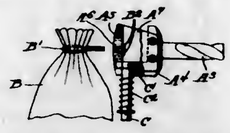
1. In a device of the type described, the combination with a pair of hand truck wheels, of a pair of side bars whose forward ends are supported upon said wheels, said side bars being bent at an angle inwardly about midway of their length and then rebent parallel with their forward ends, said bars then being bent outwardly at an angle and then rearwardly parallel to their forward ends, and a transverse handle supported by their outer ends.

1,429,919. BUTTON-SEWING MACHINE. WILLIAM L. BARRON, Newark, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 25, 1918. Serial No. 255,691. 13 Claims. (Cl. 112—112.)



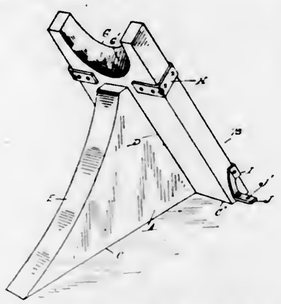
7. In a button sewing machine, button-positioning means, a lever for shifting the same, and means for variably limiting the throw of said lever, comprising stops and an adjustable member having inclined faces adapted to engage said stops.

1,429,920. WIRE TIE AND SEAL MAKING AND APPLYING TOOL. ADELMER M. BATES, Chicago, Ill., assignor to Bates Valve Bag Company, Chicago, Ill., a Corporation of West Virginia. Filed Dec. 20, 1920. Serial No. 431,836. 13 Claims. (Cl. 140—119.)



1. In a wire seal making tool a twisting head having a pocket open at one side, one of the side walls of the pocket being slotted and an ejector member located within the pocket and mounted for slidable movement within the slot.

1,429,921. WHEEL BLOCK. WILLIAM W. BLAKELY, Detroit, Mich. Filed Mar. 5, 1920. Serial No. 363,538. 7 Claims. (Cl. 188—32.)



1. A wheel block comprising a substantially triangular member having an arcuate face adapted to conform to a vehicle wheel, a base face substantially tangential to said arcuate face, the other face of the triangle being inclined at substantially 45° to the base face.

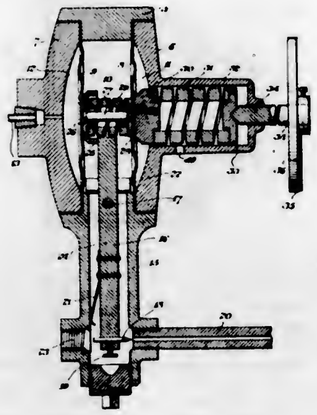
1,429,922. ALIPHATIC DIALKYLAMINO ALKYL COMPOUNDS AND PROCESS OF MAKING SAME. MAX BOCKMÜHL, Hochst-on-the-Main, and ADOLF SCHWARZ, Frankfort-on-the-Main, Germany, assignors to Farbwerke vorm. Meister Lucius & Bruning, Hochst-on-the-Main, Germany, a Corporation of Germany. Filed Sept. 13, 1921. Serial No. 500,432. 2 Claims. (Cl. 260—106.)

1. The process of producing dialkylaminoalkyl compounds, which consists in causing caustic alkalies to act upon the molecular mixtures of halogen alkyl dialkylamines or their salts and bodies of the general formula:

$$R.CO.CH(R_1).X$$

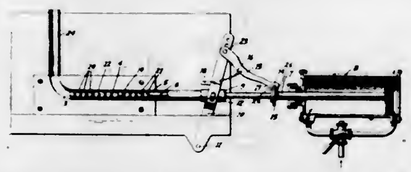
wherein R and R_1 represent hydrogen or an alkyl residue, and X represents a radicle which renders the carbon atom in the alpha position acid.

1,429,923. TEMPERATURE REGULATING VALVE. ADOLPHE E. BOSSÉ, Arden, Del., and CLARENCE W. FORD, Philadelphia, Pa., assignors to Bossé-Ford Company, Philadelphia, Pa., a Corporation of Maryland. Filed Feb. 7, 1920. Serial No. 357,103. 10 Claims. (Cl. 236—92.)



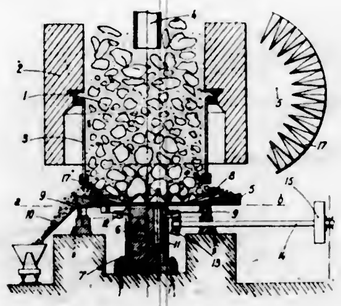
1. A device of the character described comprising a housing, a pair of flexible diaphragms dividing the interior of said housing into three chambers, means limiting the extent of approach of said diaphragms towards each other, means mounted in one of the outer chambers bearing against the outer side of one of said diaphragms tending to dilate the same towards the central chamber, fluid pressure means connected with the other outer chamber tending to dilate the other diaphragm towards the central chamber, and a valve needle actuated by one of said diaphragms adapted to control the flow of a refrigerating medium, said valve needle being mounted in a chamber communicating with the chamber between said diaphragms.

1,429,924. METHOD FOR BENDING PIPES OR TUBES. LOUIS H. BRINKMAN, Glenridge, N. J. Filed May 27, 1919. Serial No. 300,163. 9 Claims. (Cl. 153—36.)



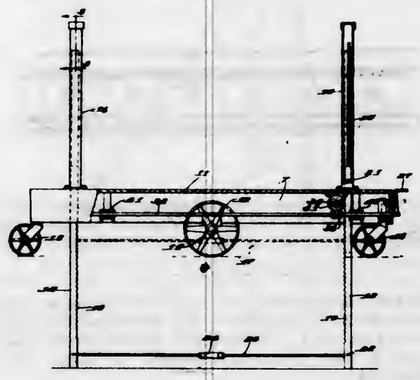
1. The method of bending a tube which consists in bending the tube and meanwhile causing balls of less diameter than the desired bore of the tube to move through the portion being bent and subsequently passing a larger ball through the bent portion of the tube.

1,429,925. FURNACE-DRAWING APPARATUS FOR LIME KILNS, CEMENT KILNS, AND THE LIKE. CHARLES CANDLOT, Paris, France. Filed Aug. 9, 1921. Serial No. 490,985. 3 Claims. (Cl. 83—7.)



1. A furnace drawing apparatus for lime kilns and the like, comprising a grate supporting the mass to be withdrawn, a rotary support for said grate causing a planetary movement thereof relative to the axis of the furnace, whereby the materials are driven towards the exterior in a continuous manner over the whole periphery of the grate.

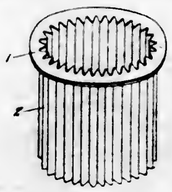
1,429,926. COMBINED TRUCK AND WORKBENCH. FRANCIS D. CARRE, Rockford, Ill. Filed July 22, 1921. Serial No. 486,915. 6 Claims. (Cl. 144—286.)



1. A combined truck and work bench comprising a platform-table, carrying wheels therefor, and means carried by the platform-table for raising the same to a work bench position and for lowering it to a truck position.

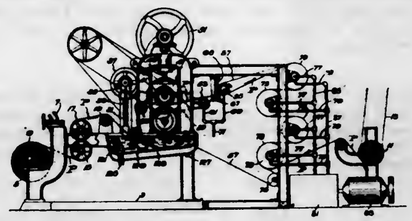
1,429,927. TRANSFORMER CASING. LIONEL A. CARTER, St. Louis, Mo., assignor of one-third to Thomas O. Moloney and one-third to James J. Mullen, both of St. Louis, Mo. Filed Sept. 10, 1918. Serial No. 253,453. 2 Claims. (Cl. 113—116.)

1. The process of making transformer casings which consists in forming a fluted side wall member of substantially the same contour throughout its height, then cutting out from a single blank by a single cutting operation along a line which is fluted the bottom wall member and the flange member, so that the inner portion of the flange member and the outer portion of the bottom will match the flutes of said side wall member, and then soldering or



welding the bottom wall member within the lower end of said wall member and soldering or welding the flange member to the upper end of said side wall member.

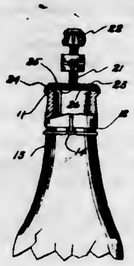
1,429,928. METHOD OF AND APPARATUS FOR WAXING PAPER. WINTHROP L. CARTER, Nashua, N. H. Filed May 15, 1920. Serial No. 381,706. 8 Claims. (Cl. 91—31.)



1. The method of waxing paper which consists in passing the same through heated wax, squeezing the surplus wax therefrom, polishing the surface while still hot, and then immediately chilling the wax to harden the same by contact with a chilled surface moving in the same direction as the paper to avoid disturbing the polish.

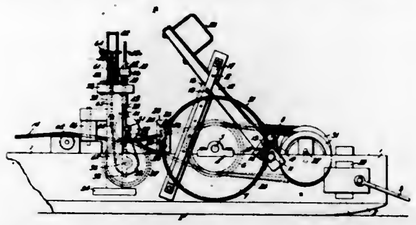
2. A machine for making waxed paper having a receptacle for heated wax, means for guiding the paper through the wax, means for removing the surplus wax, one or more heated polishing rolls over which the paper is passed together with means for driving the same and one or more cooling rolls for chilling the paper without disturbing the polished surface.

1,429,929. BOTTLE STOPPER. ROBERT CATELLA, Woodlawn, N. Y. Filed Feb. 23, 1922. Serial No. 538,609. 1 Claim. (Cl. 215—70.)



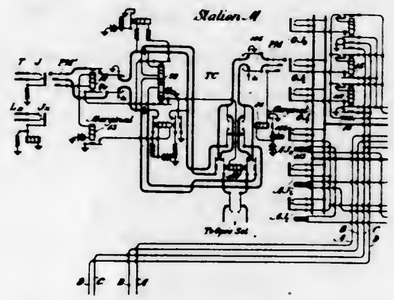
A bottle closure comprising, a bail permanently attached to a bottle neck, a cap for closing the opening in the bottle neck, an internally screw threaded nut having an annular groove in its outer surface, a portion of the bight portion of the bail fitting a portion of the groove, a tie wire lying in the opposite portion of the groove and having its ends twisted around the bail, and means cooperating with the nut for exerting pressure on the cap.

1,429,930. SNUBBING MACHINE. HENRY C. CURRIER, Millers Falls, Mass. Filed Nov. 26, 1921. Serial No. 517,878. 23 Claims. (Cl. 254—135.)



1. In a snubbing machine, drums over which a cable is passed, pressure rollers adapted to bear upon said cable as it passes over said drums, yokes carrying said rollers, said yokes being spring pressed, means for regulating the tension of said springs, shafts carried by said yokes on which said pressure rollers are mounted, brake bands looped over said shafts, brake drums fixed to said first mentioned drums, said brake bands passing around said drums, and means for alternately tightening one brake band and loosening the other.

1,429,931. SIGNALING CIRCUITS FOR TOLL LINES. JOHN DAVIDSON, Jr., Montclair, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 12, 1918. Serial No. 266,487. 13 Claims. (Cl. 179—43.)



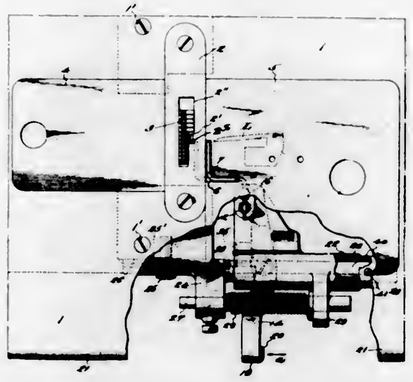
3. In a signaling system, a plurality of toll-trunks extending between two offices and each terminating at one of said offices at a plurality of positions, a signaling path common to said toll trunks and extending between said offices and means whereby an operator at the other office may selectively signal an operator at any position of any toll trunk over the common signaling path.

1,429,932. PROCESS FOR THE CHLORINATION OF MONTAN WAX. ALFONS DESCHAUER, Bonn, Germany. Filed May 22, 1922. Serial No. 562,773. 3 Claims. (Cl. 260—162.)

1. Process for chlorinizing Montan wax characterized by the fact that the chlorination is effected in aqueous mixtures; substantially as described.

1,429,933. ATTACHMENT FOR SEWING MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Dec. 2, 1918. Serial No. 264,897. 15 Claims. (Cl. 112—153.)

15. In a sewing machine, the combination with a work-support and stitch-forming mechanism including a needle, of a work-guide adjustable laterally of the needle to various operative positions above the work-support, said work-



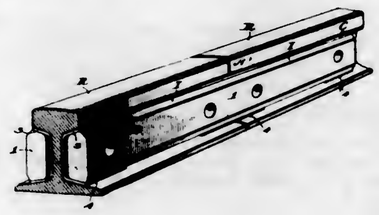
guide being shiftable to an inoperative position below the work.

1,429,934. SECTIONAL INSULATION FOR RAIL JOINTS. CLARKSON A. DISBROW, New York, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed July 21, 1921. Serial No. 486,519. 4 Claims. (Cl. 238—159.)



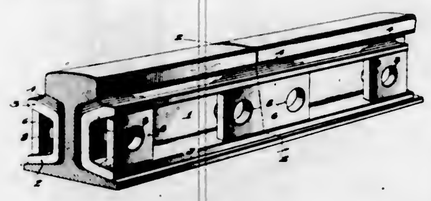
1. An insulating unit for rail joints comprising a plurality of alined sections, an intermediate section being adapted to be located at the centre of the joint.

1,429,935. RAIL JOINT. CLARKSON A. DISBROW, New Rochelle, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed June 3, 1922. Serial No. 565,549. 12 Claims. (Cl. 238—244.)



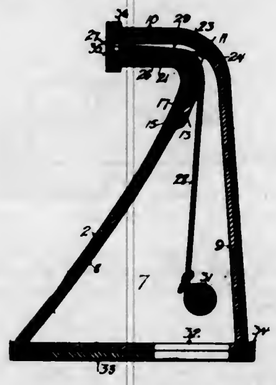
1. A rail joint including the rails, a joint bar of less fishing height than that of the rails, and bearing shim units interposed between the bar and rails at the central and end portions of the joint.

1,429,936. FABRICATED RAIL JOINT. CLARKSON A. DISBROW, New Rochelle, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed June 3, 1922. Serial No. 565,550. 13 Claims. (Cl. 238—164.)



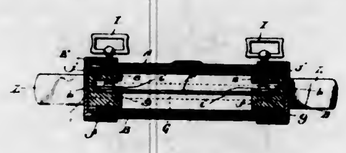
1. A fabricated rail joint including a primary bar of less fishing height than that of the rails and adjustably fitting the fishing surfaces thereof, and rail-bearing members welded to said bar.

1,429,937. SOUND AMPLIFIER FOR PHONOGRAPHS AND METHOD OF MAKING THE SAME. CHARLES J. DODGE, Brooklyn, N. Y. Filed Dec. 6, 1918. Serial No. 265,496. 5 Claims. (Cl. 181—27.)



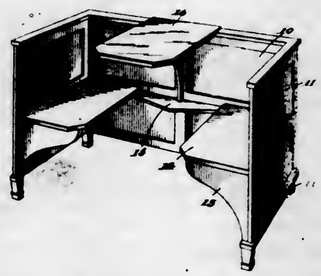
1. An amplifier for phonographs having a tapering sound chamber and composed of a composition of matter consisting principally of plaster and having wood fibre incorporated in and intimately mixed therewith to form a homogeneous mass.

1,429,938. REFILLABLE ELECTRIC FUSE. GLENN H. DRABENSTOTT, Wooster, Ohio. Filed Dec. 13, 1920. Serial No. 430,582. 2 Claims. (Cl. 200—128.)



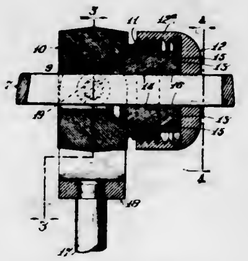
1. In a device of the character described, the combination with a cylindrical body, having a longitudinal slot opening therein, of a cylindrical sheath enveloping said body, said sheaths having a longitudinal slot opening therein adapted to register with said body slot by rotation over said body; bifurcated blocks in the ends of said body, respectively, and means, including screws passed from without said sheath through one of the abutments of said blocks, respectively, for fastening the parts together, and a fuse link inserted edgewise into notches in said blocks, respectively, substantially as set forth.

1,429,939. COMBINED SEAT AND TABLE. ARTHUR W. EICHMAN, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Dec. 17, 1921. Serial No. 523,110. 7 Claims. (Cl. 155—124.)



1. In a refreshment table, the combination of a back-frame, a horizontal brace extending across said frame, two seats spaced apart and supported at their inner ends upon said brace, end frames rigidly secured to and extending outwardly from the back frame, brackets upon the end frames for supporting the outer ends of the seats, and a table member having a bracket supported by said brace, said table member being arranged centrally between and above said seats.

1,429,940. ADJUSTABLE HANDLE. WILLIAM A. FIELD, Chicago, Ill. Filed Mar. 11, 1922. Serial No. 543,129. 8 Claims. (Cl. 74—39.)

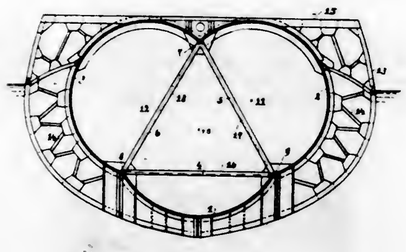


1. A handle comprising a head having a passage therethrough and an inclined bearing surface, a rod extended through said head, a wedge block adapted to bear against said rod and said inclined bearing surface, and means movable longitudinally on said rod and operated by the rotation thereof for clamping said wedge block between said bearing surface and said rod.

1,429,941. SUBMARINE BOAT. OSWALD FLAMM, Nicolassee, near Berlin, Germany. Filed May 6, 1921. Serial No. 467,439. 3 Claims. (Cl. 114—16.)

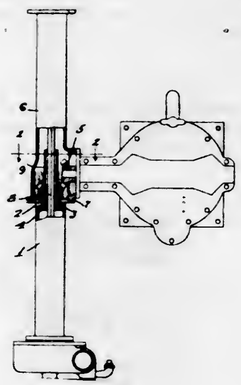
1. In a submarine boat the arrangement of the shell plating which forms the pressure body of the submarine and consists of a number of single circular arcs dis-

posed one over each of the sides of a triangle, the provision of a girder construction, the girders following the



sides of the triangle and forming draining appliances for leading off the water collected in the upper channel of the rising submarine boat, substantially as described.

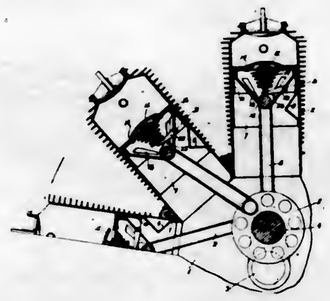
1,429,942. OIL GUARD. CHARLES W. FRANCIS, Paterson, N. J., assignor to Gillespie Eden Corporation, a Corporation of Delaware. Filed Feb. 18, 1922. Serial No. 537,474. 2 Claims. (Cl. 74—56.)



1. In a gearing transmission, a cylindrical vertical casing having a central bearing aperture, a gear having a hub journalled in said aperture whereby an oil chamber is formed above said bearing in which said gear revolves, a shaft extending through said gear, and a hollow oil guard surrounding said shaft in spaced relation thereto and secured in the top of said gear and extending above said oil chamber.

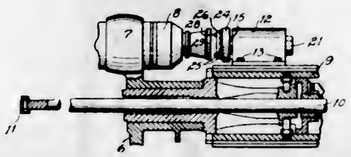
1,429,943. COMBUSTION-ENGINE-VALVE MECHANISM. WILLIAM HARPER, Jr., New York, N. Y., assignor, by mesne assignments, to Gas Turbine Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 7, 1918. Serial No. 220,949. Renewed Feb. 17, 1922. Serial No. 537,360. 3 Claims. (Cl. 123—47.)

1. A combustion engine having a cylinder, a crank shaft and connecting rod, a valve in the piston, valve actuating means operated by the connecting rod, and means for



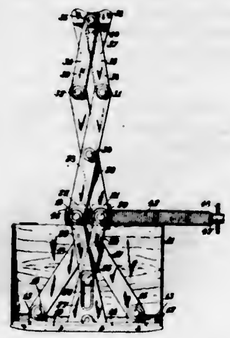
multiplying the movement between the actuating means and the valve.

1,429,944. ROTARY STAMPING DEVICE. ALOIS HAUSER and MARCUS T. LOTHROP, Canton, Ohio, assignors to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Jan. 13, 1922. Serial No. 528,924. 13 Claims. (Cl. 101—4.)



1. A device for impressing a mark in the end of a rotating article, said device comprising a rotatably supported stamp adapted to be forced axially into engagement with the article.

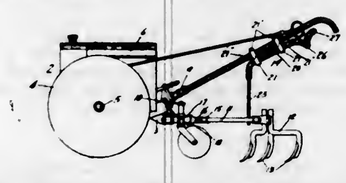
1,429,945. LIFTING JACK. ALBERT HENRY FEE HERN, London, England. Filed Oct. 19, 1920. Serial No. 418,085. 4 Claims. (Cl. 254—122.)



4. The combination with a lifting jack including a lazy tongs mechanism and a threaded spindle adapted to be rotated positively to cause expansion or contraction of the lazy tongs, of a box wherein said mechanism can

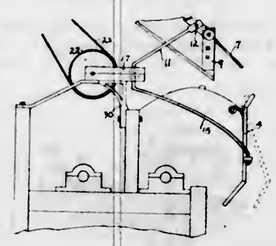
be collapsed and entirely contained and to which it is secured, one wall of said box being provided with a slot in which said spindle travels, and an operating handle for the rotatable spindle.

1,429,946. POWER-OPERATED FARMING IMPLEMENT. GEORGE O. HODGE, Bristol, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a Corporation of Connecticut. Filed Feb. 18, 1921. Serial No. 445,983. 1 Claim. (Cl. 97—48.)



The combination of a wheeled frame, controlling handles connected with the frame, an agricultural implement flexibly connected with the wheeled frame, an actuator, comprising a body portion provided with longitudinally separated clamps, one of the handles having longitudinally separated clamps to which the other clamps are flexibly connected, the actuator having a downward extension at its forward end operatively connected with the agricultural implement and having at its rear end a lateral extension situated between the controlling handles, the lateral extension terminating in a grasping portion adjacent to the handle portion of one of the handles.

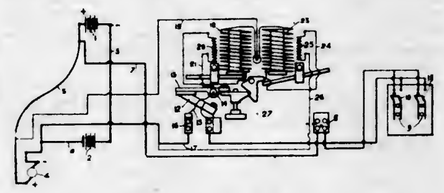
1,429,947. GIN ATTACHMENT. CLAUDE A. HOOTON, Sherman, Tex., assignor to Hardwicke-Etter Company, Sherman, Tex. Filed July 11, 1921. Serial No. 483,854. 6 Claims. (Cl. 19—39.)



2. In a device of the character described, a gin, a door thereon, a feeder chute, a valve therefor, said door being normally closed and said valve normally open, two levers pivoted on a common shaft, a gear between said levers, cams on opposite sides of said gear contacting with said levers to move them, operative connections between one of said levers and said door and similar connections between the other lever and said valve whereby said valve may be closed and said door opened at predetermined intervals.

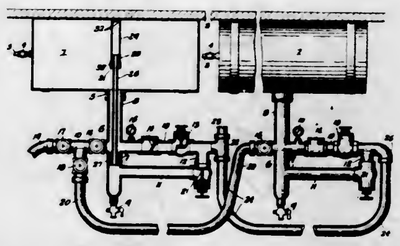
1,429,948. ELECTRICAL APPARATUS. GEORGE E. HULSE, Newark, N. J., assignor to Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Feb. 16, 1917. Serial No. 149,013. 5 Claims. (Cl. 171—314.)

1. In apparatus of the class described, in combination, a storage battery, means adapted to charge said battery, current utilizing devices adapted to be connected to said battery, a switch for connecting said devices to said battery, a mechanical means adapted to hold said switch closed, means adapted to operate said mechanical means to open said switch upon the voltage across said battery attaining a predetermined maximum value and resulting in an excessive charging current through said battery,



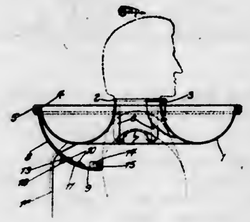
and means independent of said charging current adapted to operate said mechanical means to open said switch upon the voltage of said battery falling below a predetermined value.

1,429,949. TANK-TESTING APPARATUS. FREDERICK A. JACOBS, Richmond Hill, N. Y. Filed June 11, 1921. Serial No. 476,755. 16 Claims. (Cl. 73—51.)



1. A tank testing apparatus comprising a suitable framework of tubular members, said framework being adapted to be mounted in connection with a tank and in communication therewith a discharge member at the bottom thereof, a vent tube being mounted in said framework and extending into said tank, means whereby water may be passed into and through certain of the members of said framework around said vent tube and into the tank to be tested and through said vent tube and out through said discharge member, and means whereby compressed air may be passed into said framework to place the water therein and in the tank to be tested under predetermined pressure.

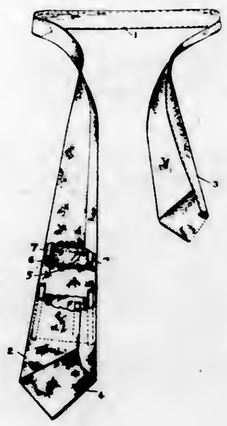
1,429,950. SHAMPOO DEVICE. JOHN G. JONES and OTTO W. ROSE, St. Louis, Mo.; said Rose assignor to said Jones. Filed Sept. 22, 1921. Serial No. 502,418. 4 Claims. (Cl. 4—2.)



1. A device of the character described, comprising an annular basin composed of rubber having a central opening the bordering portion of which is elastic, the material around said opening being arranged to stretch to permit

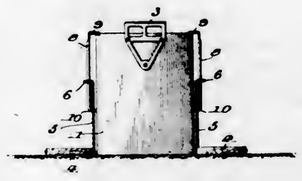
the head of the user to pass therethrough, devices in connection with the material of the basin near said opening for clamping the material closely around the neck of the user, a frame supporting the outer portion of the basin leaving the intermediate portion depending and forming an annular basin between the neck of the user and the frame, and supports in connection with the frame arranged to bear upon the shoulders of the user.

1,429,951. NECKTIE. OSCAR KAFKA, New York, N. Y. Filed Dec. 5, 1919. Serial No. 342,824. 2 Claims. (Cl. 2—11.)



1. A necktie consisting of a neck-band and a tying-end portion, in which the end portion consists of a cover fabric which is folded over along both edges of the tie and the edges of the fabric joined at the back of the tie, and a foundation consisting of a strip of fabric and bindings folded over and secured to each of the edges, the foundation being enveloped by the cover fabric and being free from the cover fabric at the trying end portion, substantially as described.

1,429,952. HOLDDOWN DEVICE. JOHN A. KEARNEY, Wilson, N. C. Filed Mar. 18, 1921. Serial No. 453,301. 6 Claims. (Cl. 294—1.)



1. A portable hold-down device comprising a hook, and a foot plate to which the hook is adjustably secured.

1,429,953. MANUFACTURE OF UREA FROM AMMONIA AND CARBON DIOXIDE. NORMAN W. KRASE, Clarendon, Va. Filed Mar. 3, 1921. Serial No. 449,554. 7 Claims. (Cl. 260—125.)

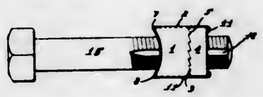
3. The method of making urea, comprising heating a mass of ammonium carbamate to a temperature of from 140° C. to 165° C. in the presence of an aqueous fluid and maintaining the same under pressure during the heating period.

1,429,954. STRINGED MUSICAL INSTRUMENT. FRANK J. KUMMETH, Heron Lake, Minn. Filed Nov. 10, 1919. Serial No. 336,834. 9 Claims. (Cl. 84—296.)



1. A stringed musical instrument comprising a body having a chamber within it, a plurality of tone producing strings supported from the body, a plurality of diaphragms and means connecting each string with a diaphragm for bodily vibration of the diaphragm from the bodily vibration of the string through the bodily movement of the corresponding connecting means.

1,429,955. LOCK NUT. JAMES C. LEGO, North Baltimore, Ohio, assignor of one third to Jacob K. Smith, North Baltimore, Ohio. Filed Apr. 1, 1922. Serial No. 548,650. 1 Claim. (Cl. 151—29.)



A lock nut comprising two members for engagement with a bolt, and a spring washer to fit on the bolt adjacent the outer face of one of said members said washer being bowed inwardly toward the member in connection with which it is to be used and having oppositely disposed right angularly extending arms equipped with terminal hooks to engage the outer face of the other member to lock said members in assembled position.

1,429,956. RETAINING ATTACHMENT FOR OPERATING TABLES. LEO L. LUX, Greeley, Colo. Filed Apr. 19, 1921. Serial No. 462,731. 4 Claims. (Cl. 128—74.)

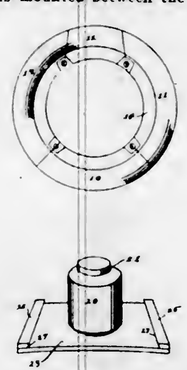


1. A retainer comprising a pair of opposed jaws, means on one jaw to clamp the device on a table, and means on the outer side of the other jaw to clamp and hold a strap.

1,429,957. COLLAPSIBLE CORE. FREEMAN D. MASON, Stow Township, Summit County, Ohio, assignor to Bridgewater Machine Company, a Corporation of Ohio. Filed Dec. 1, 1920. Serial No. 427,515. 6 Claims. (Cl. 18—45.)

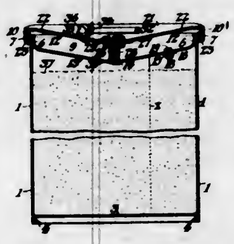
1. A core of the class described, comprising an annulus composed of separable sections, each section provided with an inwardly projecting flange, a block projecting laterally from each side of each flange at each end of each section, one edge of each block being in alinement with the abutting end of the section, the opposite edge of each block having a face lying at an acute angle to the face of the flange and being disposed obliquely to the corresponding edge of the block on the abutting section

so as to form in conjunction therewith a wedge, a locking plate having a cavity adapted to snugly receive said wedge and means mounted between the abutting ends of



said sections and arranged to engage said plates and hold the same into interlocking engagement with said wedge.

1,429,958. MUNITION CASING. VICTOR MAUCK, Norristown, Pa. Filed Oct. 8, 1918. Serial No. 257,354. 13 Claims. (Cl. 220—57.)

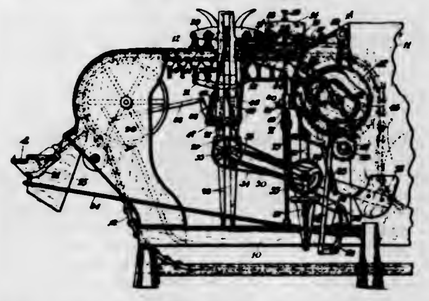


1. In a munition casing, the combination with a cylindrical, tubular metal shell, permanently closed at one end, and having at the other end an outwardly and downwardly turned annular flange forming a hollow hook ledge, of semi-circular cross section; of a plane annular gasket, of resilient material, on said flange; a closure for said shell, including a pressed sheet metal lid, having a plane annular flange opposed to the flange on said shell and arranged to bear upon said gasket; said lid having a cylindrical shoulder adjoining said flange and fitting in said shell, and having its intermediate portion conically dished and extending in said shell, toward the closed end of the latter, and having, in its dished portion, an internally screw threaded nipple, extending inwardly, with respect to said shell, in unitary relation with said lid, and forming a test port; a tapered screw test plug fitted to said nipple, and having a wrench hold accessible from the exterior of said lid; a pressed sheet metal yoke having a rhombic body with two diametrically opposite arms having pendent, inwardly turned, hooks in unitary relation therewith; the ends of said hooks being shaped to engage in the hollow of said hook ledge; said yoke being hollow, U-shaped in cross section, deeper at its middle than at its ends, and with its U flanges extending outwardly from said shell; said yoke having an outwardly extending rectangular central nut recess, and opposite, inwardly extending, nut locking tabs; a standard size square nut, mounted in said recess and rigidly locked in said yoke by said tabs; a clamp screw, extending in said nut, in registry with the apex of the conical portion of said lid, having a cotter hole extending through it, near its point, and having a T bar head with an aperture for a sealing wire; a cotter pin in said screw, preventing withdrawal of said screw from said nut; and a sealing wire extending through said head, transversely encircling said yoke, and normally preventing rotation of said screw; the construction and arrangement being such that said closure lid and yoke may only be applied to and removed from said casing when said screw is retracted to the extent limited by said cotter pin, said closure being capable of being hermetically clamped upon said casing by said screw, and, when thus clamped, said screw head is within said yoke.

1,429,959. METALLIC ALLOY FOR REPAIR PURPOSES. PERRY O. MELTON, Aberdeen, S. Dak. Filed Sept. 6, 1921. Serial No. 498,600. 1 Claim. (Cl. 75—1.)

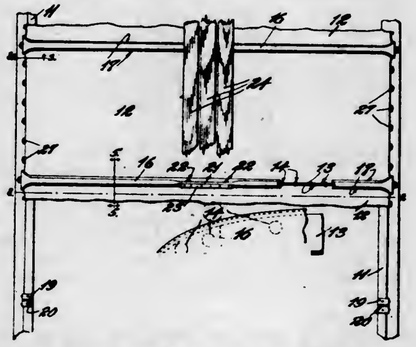
A repair metal consisting of the following ingredients combined in substantially the proportions stated, viz, zinc 11 ounces, lead 1½ pounds, tin 1½ pounds, copper 1 ounce.

1,429,960. BOTTLE-WASHING MACHINE. GEORGE J. MEYER, Milwaukee, Wis. Filed Aug. 27, 1917. Serial No. 188,415. 22 Claims. (Cl. 15—60.)



1. A bottle washing machine comprising a conveyor for carrying bottles in an inverted position, a pair of rotary brushes above the conveyor with their adjacent portions moving downwardly, and means entering and engaging within the necks of the bottles for lifting the bottles off of the conveyor and carrying them upwardly between the downwardly moving portions of the rotary brushes with their neck portions exposed to the action of the brushes.

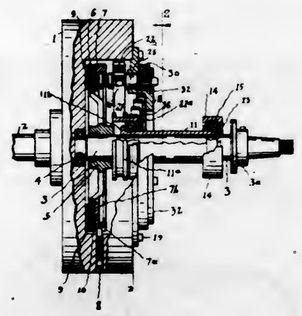
1,429,961. CAR ROOF. JOHN L. MOHUN, New York, N. Y. Filed Feb. 21, 1920. Serial No. 360,534. 20 Claims. (Cl. 108—5.4.)



1. A car roof comprising roof sheets extending from side plate to side plate and having upturned side mar-

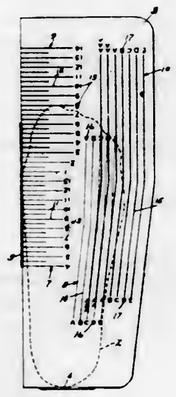
ginal flanges rigidly secured together to form joints, an outside carline covering each of said joints and the securing means therefor, said carline being out of contact with said joints and being secured to said roof sheets only in the region of the ridge, said roof sheets and said outside carline being rigidly secured to said side plates at their eaves ends.

1,429,962. FRICTION CLUTCH. THOMAS MORGAN, Muncie, Ind. Filed Dec. 28, 1918. Serial No. 268,660. 6 Claims. (Cl. 192—68.)



1. In a friction clutch comprising a driving element, a driven element, a casing fixed to the driving element, a thrust ring mounted within and movable longitudinally of the casing, shifting means within the casing to move the thrust ring into and out of contact with the driven element, the combination of connector members carried by the casing and capable of being moved adjustably therein, and having free retaining engagement with the thrust ring, an adjusting member carried by the casing and having connection with the connector members so that when it is shifted all of the connector members are moved, and a device to hold the adjusting member at set position.

1,429,963. FOOT-MEASURING DEVICE. GEORGE W. NELSON, Minneapolis, Minn. Filed Mar. 1, 1920. Serial No. 362,359. 4 Claims. (Cl. 33—3.)



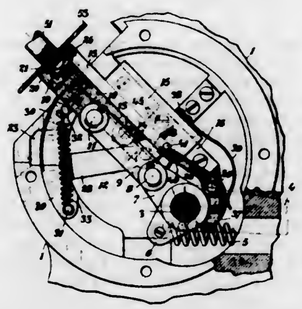
1. A chart or measuring feet having end and side gauges extending at right angles to each other, a length scale and a width scale, the latter comprising parallel lines inclined laterally toward the side gauge at their portions which are adjacent the end gauge and parallel to the side gauge at their other ends whereby the same lines are used for measuring women's and men's feet.

1,429,964. PILE. JOHN P. NORDSTROM, Brooklyn, N. Y., assignor of one-third to Allen N. Spooner and one-third to David M. Tulloch, both of New York, N. Y. Filed June 24, 1921. Serial No. 480,015. 8 Claims. (Cl. 61—53.)



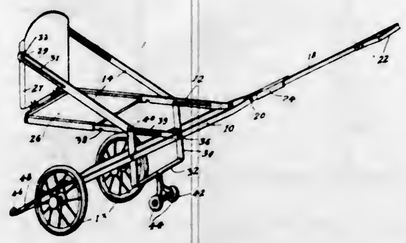
1. A pile comprising an elongated body portion, a pair of auxiliary bearing strips disposed on opposite sides of the body portion and opposite one another, and common means for securing both strips against movement endwise of the body portion.

1,429,965. MACHINE FOR INSERTING LACING HOOKS. WERNER OCHS, Bad Liebenstein, Germany. Filed May 7, 1921. Serial No. 467,644. 6 Claims. (Cl. 218—17.)



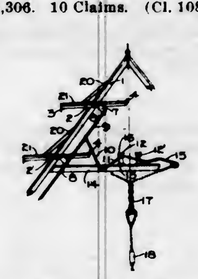
2. A lacing hook setting machine comprising a casing having an opening through which the lacing hooks are admitted, a set located outside of the casing, a cooperating set inside of the casing, an arm on which said cooperating set is mounted, a pivotal mounting for said arm, a slide carried by said pivotal mounting, toggle means for operating said last mentioned set so as to cause it to insert a lacing hook and to disengage itself therefrom by an angular movement, a second slide for closing the opening in said casing a spring connecting said second mentioned slide with the arm on which the set is mounted so that it is displaced when said arm is oscillated and remains in the closing position when said arm is advanced so that the opening for the lacing hooks is uncovered only when said arm with the inner set is at its lowest position, and a rail for conveying the lacing hooks to said opening.

1,429,966. COLLAPSIBLE GOCART. HARRY R. OLSEN, St. Paul, Minn. Filed Dec. 27, 1920. Serial No. 433,227. 13 Claims. (Cl. 280—40.)



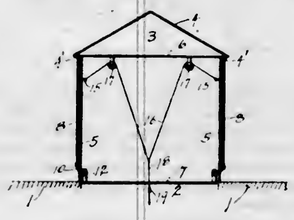
1. A collapsible go cart comprising a wheel frame, a seat frame pivoted to said wheel frame, a seat back pivoted to said seat frame, brace members connected with said back, a foot rest pivoted at its center to said wheel frame and at its end to said brace members for collapsing said seat back.

1,429,967. SKYLIGHT OR VENTILATED ROOF. SAMUEL J. OLSHIN, Yonkers, N. Y. Filed Aug. 23, 1920. Serial No. 405,306. 10 Claims. (Cl. 108—16.)



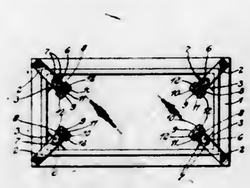
1. In a device of the class described, a pivoted window sash and means for automatically turning said sash to a predetermined position, said means comprising a rotatable rod and an adjustable arm on said rod.

1,429,968. SKYLIGHT. SAMUEL J. OLSHIN, Yonkers, N. Y. Filed Nov. 5, 1921. Serial No. 512,998. 4 Claims. (Cl. 108—16.)



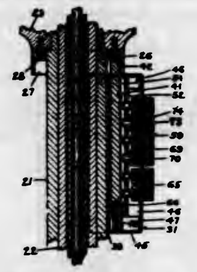
1. In a device of the class described, a sash substantially vertical in its normal closed position, a housing, said sash being outside of said housing, a pivot for said sash inside of said housing, said sash being connected to said pivot by an offset portion.

1,429,969. PIVOTED FOLDING TABLE LEG. EVERETT C. PALMER, St. Charles, Mo. Filed Dec. 10, 1921. Serial No. 521,500. 3 Claims. (Cl. 45—11.)



1. Means for supporting a table comprising a hinged member having a section pivotally secured to and rotatable upon a plate affixed to the under surface of the table and a section secured to a leg or post disposed adjacent to the corners of the table, whereby the leg may be turned and swung upwardly against the under surface of the table when the latter is not in use.

1,429,970. PERMUTATION LOCK. JOSEPH ROSEMANN, Covington, Ky. Filed Dec. 3, 1921. Serial No. 519,599. 4 Claims. (Cl. 70—53.)

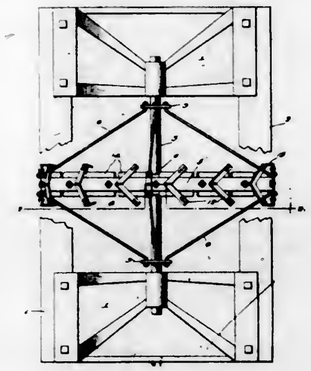


1. In a permutation lock, the combination of a bolt-slide provided with slots and enlargements of said slots, and rotatable tumblers provided with shanks in alinement with said slots and said enlargements, said respective shanks being wider in one dimension than in another dimension, said wider dimensions being wider than said slots and arranged to be located in said enlargements crosswise of said slots when said bolt-slide is in locked relation, said shanks arranged to be rotated for presenting their wider dimensions or their narrower dimensions toward said slots, means for yieldingly holding said respective tumblers in rotated relation, and spring means normally urging said bolt-slide into locked relation.

1,429,971. CIRCULAR TYPE OF POWER GENERATOR. ASA E. REED, San Bernardino, Calif. Filed Mar. 21, 1921. Serial No. 454,146. 2 Claims. (Cl. 170—118.)

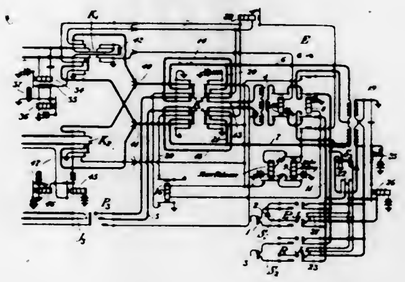
1. An apparatus of the class described comprising a base, a supporting frame secured to said base, a rotatable shaft mounted in said frame, a rotatable member carried by said shaft, said member consisting of a frame, a hub and spokes bars adapted to embrace in said rotatable member, collars provided on said shaft and said bars extending from the rim of the rotatable member to said collars, blades hinged to said spokes and occupying space therebetween, reinforcing strips provided on the edge of said blades, arms projecting outwardly from the rim of said

rotatable member to limit the swinging movement of said blades, angle stop plates adjustably secured to said arms which project inwardly into the path of the blades so as



to be struck by the latter and flanges divided on the sides of said blades which are concentric with the rim and act in imparting a rotary movement to the member by the current.

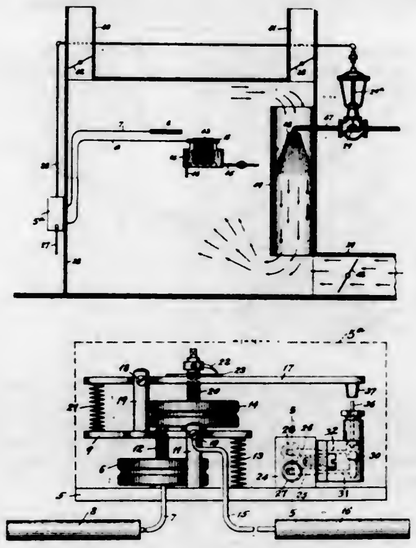
1,429,972. DESK OPERATOR'S CIRCUITS. WILLIAM A. RHODES, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 5, 1918. Serial No. 265,435. 17 Claims. (Cl. 179—41.)



16. In a telephone system, a monitoring cord, a trunk connecting circuit, an operator's set adapted to be connected either to said cord or said circuit and a common ringing key for applying ringing current either to said trunk connection or said cord exclusively.

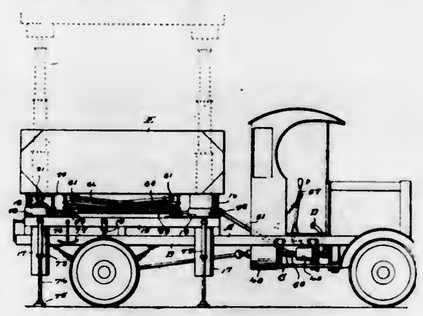
1,429,973. HUMIDITY CONTROLLER. ALFRED ROESCH, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,609. 3 Claims. (Cl. 236—44.)

1. The combination of air-humidifying means, a dry bulb, a wet bulb, expansible and contractible devices connected respectively with said bulbs and capable of independent operative expansive and contractive movements in the same directions, and means operated alternately by said devices to automatically control the humidifying



means in accordance with the differences between the dry bulb and wet bulb temperatures to provide predetermined percentages of humidity in said air.

1,429,974. DUMPING TRUCK. ROBERT D. ROGERS, Johnstown, Pa., assignor of one-half to George B. Somerville, Johnstown, Pa. Filed Dec. 18, 1920. Serial No. 431,637. 7 Claims. (Cl. 298—11.)

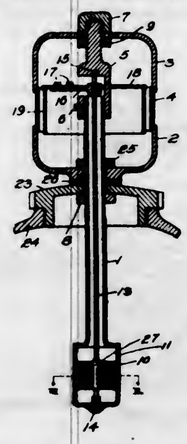


1. In combination with a truck chassis, the drive mechanism thereof and the truck body; means for elevating and tilting the body comprising an elevating screw device disposed beneath each corner of the body, means driven from the truck drive for operating said screw devices simultaneously, and means for driving two of the elevating devices alone.

1,429,975. TEMPERATURE INDICATOR. ALBERT ROTH and PATRICK A. FERGUSON, Pittsburgh, Pa. Filed Sept. 24, 1920. Serial No. 412,439. 3 Claims. (Cl. 73—118.)

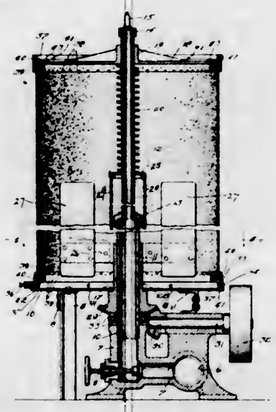
3. In a temperature indicator, the combination of a small bore tube insertable through the wall of a casing, a

thermally expandible element in and attached at one end to said tube, a shaft rotatably mounted in said tube and attached to the other end of said element, a cylindrical



casing attached to the outer end of said tube and having a transparent window in its side wall, and a cylinder attached to the outer end of said shaft and provided on its outer face with graduations visible through said window.

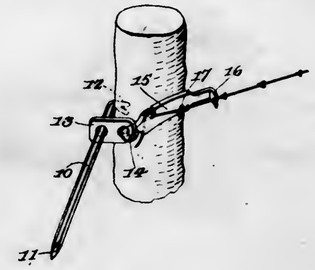
1,429,976. DRYING MACHINE. PASCAL J. SHAMPAY, Chicago, Ill. Filed Mar. 18, 1920, Serial No. 366,928. Renewed Feb. 27, 1922. Serial No. 539,750. 14 Claims. (Cl. 34—17.)



9. A drying machine comprising a heating element; a fan rotatably mounted around the heating element; a stationary disc at the lower end of the fan; a disc slidably mounted above said fan; resilient means pressing upwardly on the slidably mounted disc; and an article to be dried holding ring at the periphery of each of said discs, the upper ring resting on the slidably mounted disc and the lower ring being removably locked to the lower disc.

1,429,977. TOOL. ROBERT E. L. SMITH, Holland, Mo. Filed Aug. 4, 1921. Serial No. 489,793. 1 Claim. (Cl. 254—47.)

A tool of the class described comprising a bar, a plate slidable on the bar, a curved plate having an eye loosely engaged with the first plate and having an angularly extending claw at its outer end, the intermediate portion of

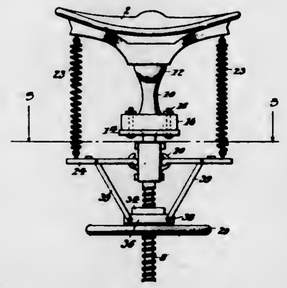


the body of the curved plate having notches in its opposite edges adjacent the ends thereof.

1,429,978. CLEANING COMPOUND. SAMUEL E. SMYTH, Denver, Colo. Filed Mar. 8, 1920. Serial No. 364,201. 2 Claims. (Cl. 87—5.)

1. A cleaning compound consisting of a saponaceous substance composed of oleic acid, potassium hydroxide and water carried in solution by a mixture of kerosene and denatured alcohol substantially in the proportions specified.

1,429,979. PIVOTAL SPRING SEAT. OTTO C. SPANENBERG, Albion, Mich. Filed Dec. 31, 1921. Serial No. 526,098. 2 Claims. (Cl. 155—54.)

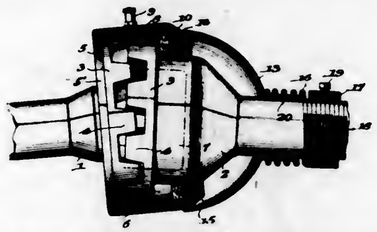


1. In a seat construction, a supporting pedestal having a lower screw-threaded portion, a seat pivotally secured at approximately its central lower portion to the upper end of said pedestal, tension arms pivotally secured to said pedestal below said seat, a spring member connected with each of said arms and with the seat adjacent its edge, a tension wheel rotatable on said lower screw-threaded portion and links pivotally connected respectively with said tension wheel and said tension arms, whereby rotation of said wheel rocks said arms on their pivots simultaneously to increase or decrease the tension of said springs.

1,429,980. UNIVERSAL JOINT FOR COUPLING SHAFTS. CHARLES M. SPANGLER, Emporium, Pa. Continuation of application Serial No. 464,066, filed Apr. 25, 1921. Patent No. 1,407,445. This application filed Dec. 16, 1921. Serial No. 522,786. 2 Claims. (Cl. 64—91.)

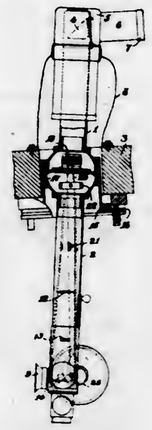
1. In a universal joint, the combination of joint or coupling members respectively provided with teeth and freely movable to assume different relationships to each other, and a casing or housing for the coupled parts of

said joint, one of said coupled parts being provided with a lubricant reservoir in its end extending into said member



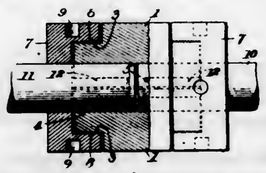
well back of the teeth thereof from which the lubricant can work out between the teeth.

1,429,981. INDIRECT-VISION RANGE FINDER AND THE LIKE INSTRUMENT. ALFRED TAYLOR, HAROLD DENNIS TAYLOR, and PERCY WILLIS GRAY, York, England. Filed Jan. 29, 1916. Serial No. 75,169. 31 Claims. (Cl. 88—2.7.)



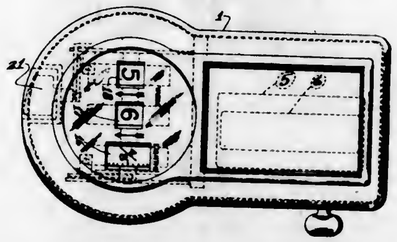
1. An optical instrument comprising in combination a periscope, a range finder having an optical element movable for range finding purposes, means to co-ordinate the optical systems of said periscope and said range finder, and adjusting means to allow the use of the combined parts as a periscope presenting a complete uninterrupted field of view, or as an indirect vision range finder.

1,429,982. SHAFT COUPLING. EARL D. TUBBS, New York, N. Y., assignor to Igoe Brothers, Newark, N. J., a Corporation of New Jersey. Filed Feb. 15, 1921. Serial No. 445,115. Renewed Aug. 11, 1922. Serial No. 581,265. 4 Claims. (Cl. 287—114.)



1. In a shaft coupling, the combination with supplemental sleeve members having grooves in their bores extending inwardly from their ends, wedges in said grooves, and nuts on the ends of the sleeve members for forcing said wedges into the grooves to grip the shafts to be coupled, said wedges having longitudinal serrations in their inner faces to bite into said shafts.

1,429,983. REGISTER FOR FABRIC-MEASURING MACHINES. DOUGLAS TURNER, St. Louis, Mo., assignor, by mesne assignments, to The Measuregraph Company, a Corporation of Delaware. Filed Aug. 22, 1919. Serial No. 319,058. 9 Claims. (Cl. 235—144.)



1. In a machine of the kind described, the combination of a shaft, a plurality of counter wheels loosely mounted on said shaft, a clutch for driving the wheel of lowest denomination, carrying mechanism normally connecting the counter wheels for driving those of higher denomination from the wheels of lower denomination, said shaft constructed to open the clutch by a longitudinal shifting movement of the shaft, a hand-actuated member, means actuated thereby for shifting the shaft longitudinally to open the clutch, means also actuated by the hand-actuated member for disconnecting the carrying mechanism from the counter wheels, and means also actuated by the hand-actuated member for effecting the return of the counter wheels to zero.

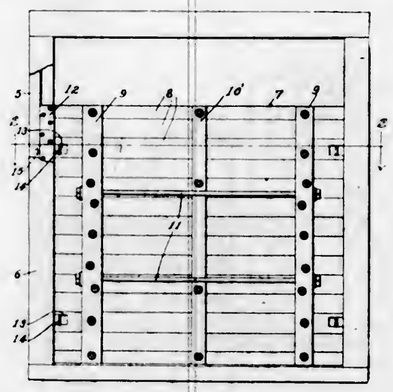
1,429,984. KNIFE SHARPENER. GUSTAV C. VOLLMER, St. Louis, Mo. Filed Sept. 13, 1920. Serial No. 409,752. 5 Claims. (Cl. 76—86.)



1. A knife sharpener comprising a tapered base; a plurality of sharpening members supported on said base and arranged interjacent to each other, said sharpening members being octagonal shaped in cross section and means for supporting said sharpening members in their set position, substantially as specified.

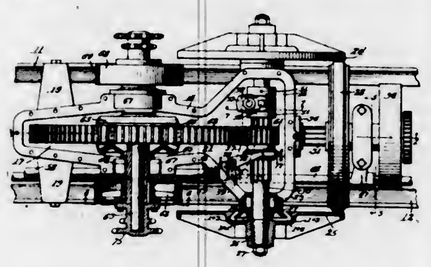
1,429,985. GRAIN DOOR. GEORGE M. WADDY, Buffalo, N. Y. Filed July 13, 1921. Serial No. 484,457. 1 Claim. (Cl. 20—30.)

A sliding car door including a plurality of horizontally disposed boards, vertical bars disposed adjacent to the side edges of the door for connecting the horizontally disposed boards, a central bar of a thickness greater than the thicknesses of the vertical bars, bracing rods having their ends extended through openings in the vertical bars, and overlying the central bar, plates secured to the horizontally disposed boards at the side edges thereof, said door having openings formed adjacent to the side edges under the side plates, sliding keys positioned under the side plates and disposed within the openings,



said keys having piercing ends adapted to embed themselves into the door frame, in which the door is positioned, and said keys having right angled ends providing means to operate the keys.

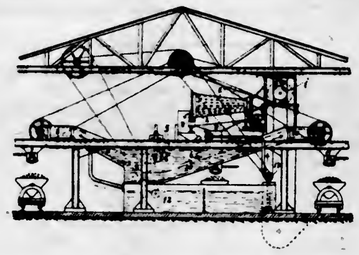
1,429,986. TRANSMISSION MECHANISM. LEWIS E. WATERMAN, HARRY R. THAPHAGEN, and HOWARD L. WATERMAN, Rockford, Ill., assignors to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed June 9, 1919. Serial No. 302,696. 5 Claims. (Cl. 74—26.)



1. The combination of a pair of power-plant sills, an engine and a transmission casing each fixedly mounted upon said sills in spaced relation, the transmission including a friction disk, a shaft driven by the engine and flexibly supported at its opposite ends, and a friction driving wheel splined on said shaft and adapted for driving said disk.

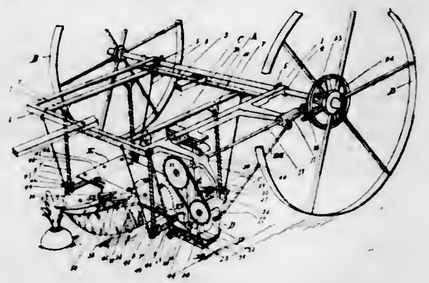
1,429,987. PLANT FOR SEPARATING COKE FROM WASTE FUEL AND RESIDUES. WILHELM WEBER, Wiesbaden, Germany, assignor to the Firm Weber & Co. Gesellschaft für Bergbau, Industrie und Bahnbau, Wiesbaden, Germany. Filed Dec. 27, 1920. Serial No. 433,471. 1 Claim. (Cl. 83—81.)

A plant for separating coke from waste fuel and residues comprising in combination, a water receptacle, a chute for transporting material into said water receptacle a nozzle in said water receptacle for producing a surface current upon the water, an adjustable trap arranged at a certain distance in front of said chute and nozzle under the water, a conveyor band directly under the surface of the water and a conveyor band upon the bottom of the receptacle, the first for conveying the coke which has been taken along by the surface current, the second for conveying the slag and heavy admixtures



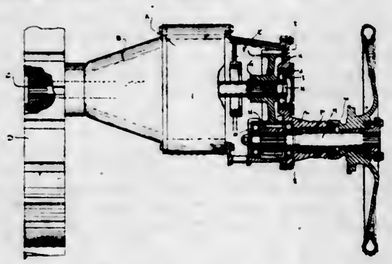
which have sunk beneath said trap, a clarifying vessel for the water from the tank and a centrifugal pump for circulating said water through said plant.

1,429,988. BEET-TOPPING MACHINE. CHARLES H. WEYH and WILLIAM F. WEYH, St. Paul, Minn. Filed Apr. 4, 1921. Serial No. 458,518. 5 Claims. (Cl. 55—107.)



3. A beet topping machine, comprising a wheeled frame, a support resiliently suspended from the frame so as to yield to be oscillatory, a forwardly directed vibratory reaper knife on said support, mechanism operatively connecting the wheels and knife to vibrate the latter, and a pair of longitudinally disposed spaced runners below and forward of said vibratory knife.

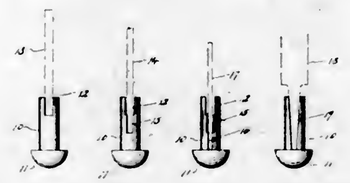
1,429,989. ATTACHMENT FOR TRACTORS. THOMAS C. WHITEHEAD, Detroit, Mich. Filed Mar. 6, 1922. Serial No. 541,603. 4 Claims. (Cl. 180—75.)



1. The combination with a tractor designed for use of tractor wheels of larger diameter than standard sizes of pneumatic tires, of a substitute unit comprising a

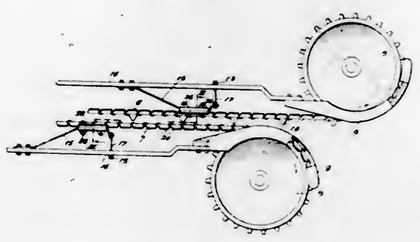
replacement housing for the outer portion of the axle housing, a downwardly offset axle in said replacement housing, a step-up gearing between the main axle shaft and said offset axle, and a pneumatically tired wheel of smaller diameter than the original wheel mounted on said offset axle.

1,429,990. METHOD FOR BIFURCATING BLANKS. RICHARD LESTER WILCOX, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 21, 1920. Serial No. 353,121. 4 Claims. (Cl. 10—27.)



1. The method for bifurcating blanks which comprises slotting the blank with cuts of varying widths and then cutting the sides of said slots to form the sides of the finished slot.

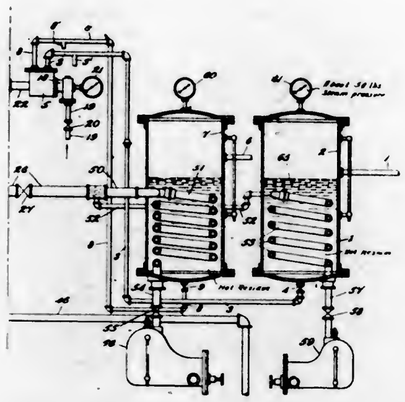
1,429,991. CONVEYER-CHAIN GUIDE FOR CANE HARVESTERS AND THE LIKE. FREDERICK C. DOUGLAS WILKES and FRANCIS K. FLYNN, Watertown, Wis., assignors, by mesne assignments, to Luce Cane Harvester Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 29, 1919. Serial No. 320,696. 14 Claims. (Cl. 198—162)



8. In apparatus of the character described, the combination of a cane conveying chain and a presser spring adapted to cooperate therewith, said spring being supported at one end and extending beside the chain in the direction of travel thereof and inclined outwardly so that its free end is adjacent the back of the chain, and guide means carried by the free end of said spring and adapted to cooperate with the chain to prevent lateral displacement of the latter.

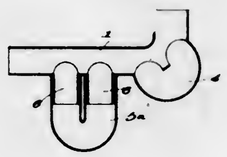
1,429,992. PROCESS OF AND APPARATUS FOR PRODUCING LIGHTER HYDROCARBONS FROM HEAVIER HYDROCARBONS. CARL V. WOEGERER, New York, N. Y., assignor of one-half to James R. Clarke and one-half to William H. Clarke, both of New York, N. Y. Filed May 8, 1920. Serial No. 379,960. 8 Claims. (Cl. 196—26.)

1. The process of producing hydrocarbons of a less specific gravity from hydrocarbons of a higher specific gravity which consists in subjecting said last named hydrocarbons to an atomizing action with water and lime; then to an atomizing action of steam under pressure and at a temperature below 500° F.; then to a settling action under a pressure maintained above that



of the atmosphere to separate out a portion of the unconverted oil and lime present; and finally to a condensing action under superatmospheric pressure, substantially as described.

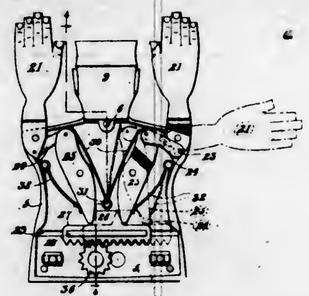
1,429,993. INTERFERENCE TUBE FOR PHONOGRAPHS AND TELEPHONES. MARI ELIZ WOLVEKAMP, Oakland, Calif. Filed Mar. 16, 1920. Serial No. 366,372. 2 Claims. (Cl. 181—27.)



1. In combination with the reproducer and with the tone arm of a phonograph, a relatively narrow main sound conduit including by-pass means the ends of which are close together and communicate with said sound conduit, permitting two large and substantially equal volumes of sound to simultaneously traverse paths of distinctly different length which are not varied by the movement of the phonograph, eliminating by interference a high or false tone.

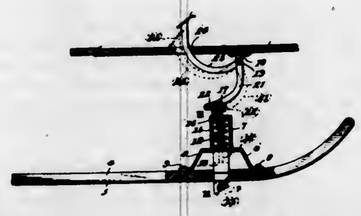
1,429,994. DIRECTION SIGNAL FOR MOTOR VEHICLES. PAUL ZAMOLYNSKI, West Fort William, Ontario, Canada. Filed Mar. 16, 1922. Serial No. 544,147. 2 Claims. (Cl. 116—51.)

1. In a direction signal for motor vehicles, a pair of signal arms, means to normally yieldingly maintain said signal arms in upwardly extending vertical inoperative position, means operable at a distance from said arm for selectively lowering either one of the same to a horizontal position without disturbing the other, the means for lowering the signal arms including separate levers pivotally mounted intermediate their ends, links connected to the adjacent ends of said arms and pivoted levers, and a sliding transversely movable rack bar having



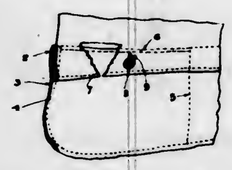
a lug extending upwardly and operatively positioned between so as to engage the lower ends of said levers.

1,429,995. SLEIGH BRAKE. JOSEPH A. ABRAMCHUK, Rossburn, Manitoba, Canada. Filed Oct. 30, 1920. Serial No. 420,764. 3 Claims. (Cl. 188—8.)



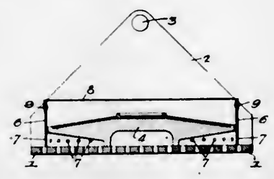
1. A sleigh brake comprising in combination with a sleigh having runners and a platform section, cylinders supported upon the runners, a rod in each cylinder, a brake shoe carried by the rods and externally of the cylinders, coil springs surrounding the rods within said cylinders to hold the shoes normally elevated, a connecting bar between the rods and carried thereby and foot operating means for depressing the shoes against the tension of the springs.

1,429,996. GARMENT POCKET. JOSEPH ARONOFF, Montreal, Quebec, Canada. Filed May 10, 1920. Serial No. 380,315. 1 Claim. (Cl. 2—15.)



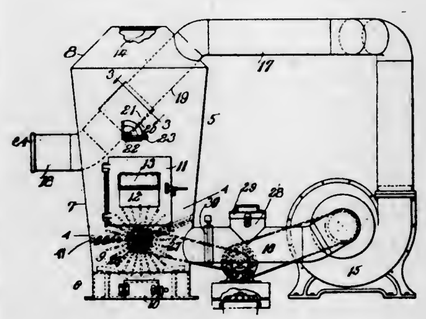
In a garment pocket, side walls having a transverse fold and stitching along the upper edge of said fold an inner facing covering the side walls below the fold and extending upwardly under said fold and having bottom, side and middle stitching, the latter extending upwardly and suitable fasteners for detachably securing the inner facing under said fold.

1,429,997. APPARATUS FOR DRYING CLAY BODIES. ELWOOD B. AYRES, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 1, 1920. Serial No. 385,563. 2 Claims. (Cl. 34—12.)



1. The combination in apparatus for drying clay bodies, of a tray for holding a mold and the body, which is formed thereon; and a casing mounted on the tray and enclosing the mold and body to be dried, said casing having a section of absorbing fibrous material located in close proximity to the body being dried.

1,429,998. MATTRESS-FILLING MACHINE. PHILLIP BAKER, Malden, Mass. Filed Mar. 6, 1922. Serial No. 541,484. 9 Claims. (Cl. 226—43.)

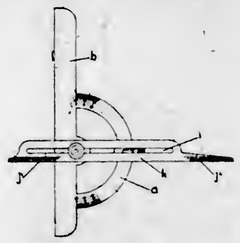


1. A machine for filling mattresses and the like having, in combination, a receptacle for filling material, a circulating fan, intake and return pipes connecting said fan to said receptacle, said return pipe extending from said fan through said receptacle and terminating in an open outer end, said return pipe being provided within said receptacle with an opening into said receptacle and a damper in said return pipe adjacent said opening whereby that portion of said return pipe extending through said receptacle may be alternately, closed to said receptacle and opened therethrough to said open, outer end, or vice versa.

1,429,999. COMBINED DEPTH AND ANGLE GAUGE. ERNEST BARLOW, Foleahill, Coventry, England. Filed May 4, 1920. Serial No. 378,876. 3 Claims. (Cl. 33—75.)

1. In a combined depth and angle gauge, a flat protractor having a semi-circular segment, said protractor having marked on its semi-circular segment degrees of angles numbered 0° to 180°, and also a threaded pin rigidly fixed through its base at the center of the said segment, upon

which is pivotally and slidably mounted a graduated slotted flat blade, through the slot in which protrudes an



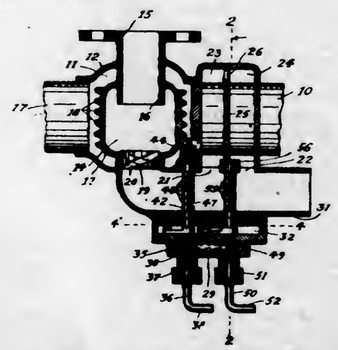
angle indicator with spring stop, said indicator being slidable on the segment of the protractor.

1,430,000. END CLOSURE FOR RANGE BOILERS AND LIKE CONTAINERS. WILLIAM M. BELL, Portsmouth, Ohio, assignor to Whitaker-Glessner Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Apr. 21, 1920. Serial No. 375,601. 8 Claims. (Cl. 220—66.)



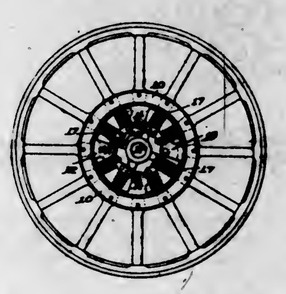
1. An end closure for range boilers and like containers, consisting of a sheet-metal plate of concavo-convex form disposed with its concave face inward and having an outwardly extending peripheral flange adapted to fit within and to be rigidly attached to the boiler body, said plate having therein a centrally located sput-receiving opening and having formed about said opening a horizontal circular ledge adapted for having the head of a sput seat thereon, said ledge being depressed below the plane of the concave face a distance approximating the thickness of the head of the sput, said plate having formed therein a plurality of radial reinforcing ribs which terminate at their inner ends at points located outward with respect to the depression whereby said ledge is formed.

1,430,001. CARBURETOR. ASHLEY C. BENNETT, Minneapolis, Minn., assignor to Irene E. Bennett, Minneapolis, Minn. Filed Mar. 30, 1918. Serial No. 225,843. 2 Claims. (Cl. 261—14.)



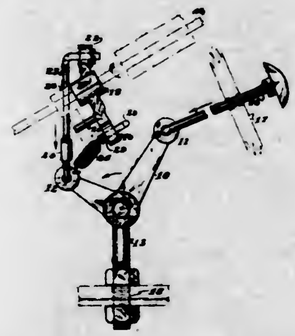
1. A carburetor comprising a mixing chamber, means for supplying fuel to said mixing chamber, an air inlet tube leading to said chamber, a casing forming a by-pass for said tube around the exhaust pipe of the engine, a valve in said inlet tube for deflecting the incoming air through said bypass, a valve controlling the passage through said mixing chamber, means for first opening said last mentioned valve to increase the supply of heated air, and means for then opening said first mentioned valve to permit unheated air to pass directly through said inlet tube.

1,430,002. SPRING HUB. SETH N. BLOOMDALE, Worcester, Mass. Filed Mar. 21, 1921. Serial No. 453,910. 5 Claims. (Cl. 152—45.)



1. In a wheel, the combination of a hub having an outer ring rigidly connected with the rim and an inner ring constituting the hub proper, positive means for transmitting motion between the two rings in a circumferential direction and in either direction circumferentially and radial compression springs connected with the positive means for transmitting radial motion.

1,430,003. AUTOMOBILE ACCELERATOR. JOSEF BRACTIGAM, Brooklyn, N. Y., assignor of one-half to John Edwards, Brooklyn, N. Y. Filed Sept. 10, 1921. Serial No. 499,640. 2 Claims. (Cl. 74—34.)



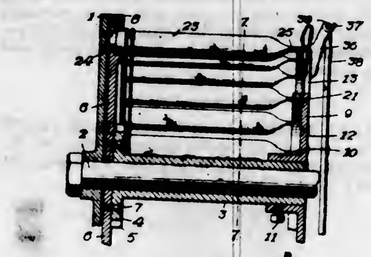
1. In combination with the hand throttle lever and the throttle lever crank of an automobile, an accelerator comprising a crank case bolt, a pin projecting from said bolt, a bell crank lever loosely mounted on said pin, a foot push button connected to one end of said bell-crank lever, a second bell-crank lever loosely mounted on said throttle lever, a pin on said second bell-crank lever interposed in the path of said throttle lever crank, means for connecting said second bell-crank lever to the throttle valve of the carburetor, and means for normally maintaining said bell-crank lever pin in contact with said throttle lever crank.

1,430,004. METHOD OF MAKING SOCKET-WRENCH HEADS. HJALMAR G. CARLSON, Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed June 5, 1919. Serial No. 301,865. Renewed Feb. 20, 1922. Serial No. 538,097. 9 Claims. (Cl. 76—114.)



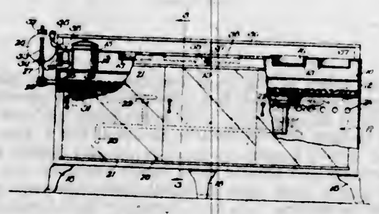
1. The method of making a hollow article which comprises shaping a piece of sheet metal into the form of a hollow member having an open end and a closed end, flattening the closed end on opposite sides, then punching a non-circular hole through the closed end wall, and finally shaping the open end.

1,430,005. MAGAZINE FOR WEFT-REPLENISHING LOOMS. RANDOLPH CROMPTON, WILLIAM E. WOODMAN, and ROBERT J. ADAMS, Worcester, Mass.; said Woodman and Adams assignors to said Crompton. Filed May 26, 1919. Serial No. 299,977. 11 Claims. (Cl. 139—85.)



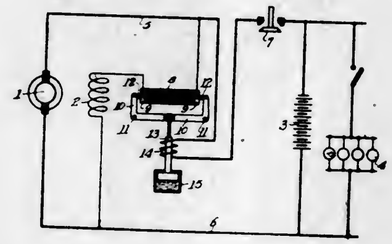
4. In a hopper or magazine for an automatic loom, a resilient member provided with a loop for seating the small end of a filling carrier, the top portions of said loop being closer together than other portions thereof, to prevent the displacement of the end of the filling carrier.

1,430,006. STEAM TABLE FOR FOOD. ALFRED M. DEMUTH, Chicago, Ill., assignor to Demuth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 18, 1921. Serial No. 485,562. 10 Claims. (Cl. 126—33.)



1. A self-contained steam table of the character described embodying a closed chamber for holding a non-circulating liquid intended to be converted into vapor, said chamber having a portion shaped to form receptacles extending into the chamber and opening through one wall thereof, said receptacles being closed to the interior of the chamber, a closed liquid supply holder, and means whereby the said supply will automatically maintain the liquid at a predetermined level in the said liquid chamber.

1,430,007. COMPRESSIBLE RHEOSTAT. AUGUST W. DONOP, Niagara Falls, N. Y., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Apr. 17, 1914. Serial No. 832,450. 4 Claims. (Cl. 171—229.)



2. In combination, a plurality of freely movable contacting electrodes, movable supporting means supporting said electrodes at a plurality of supporting points and biased to hold said electrodes normally in contact with each other under compression, and means for simultaneously moving said supporting means to relieve the compression of said elements at a plurality of points simultaneously.

1,430,008. SEPARABLE BUTTON. ALBERT HENRY EDDY, Edgewood Station, R. I. Filed May 2, 1922. Serial No. 557,834. 4 Claims. (Cl. 24—102.)

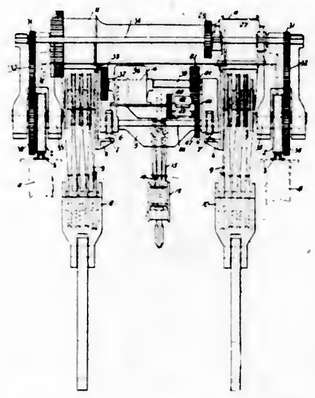


1. A separable button having laterally separable posts, one post having an inwardly turned over crescent shaped lip and spring arms formed integral with the post, the other post having a circular lip adapted to be forced by the spring arms and under the crescent shaped lip on the first mentioned post and a button head pivotally secured to each post, whereby the separable members of the button are locked together against a direct pull apart of the members.

1,430,009. CRANE TROLLEY. ROBERT J. HARRY, Munhall, and CHARLES S. PROUDFOOT, Johnstown, Pa. Filed May 14, 1920. Serial No. 381,381. 2 Claims. (Cl. 212—10.)

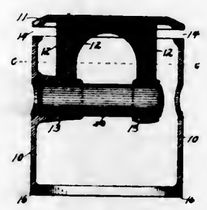
1. The combination with a traveling crane, having a self propelled main hoist adapted to travel lengthwise of said crane, said hoist comprising a wheeled frame, and having suitable hoisting cables trained over and depending from suitable pulley sheaves journaled at each side of said frame, of a self propelled auxiliary hoist supported on and adapted to move longitudinally of said main hoist, said

auxiliary hoist comprising a wheeled frame adapted to travel upon a pair of rails supported on the side girders of the frame of said main hoist, a hoisting drum journaled



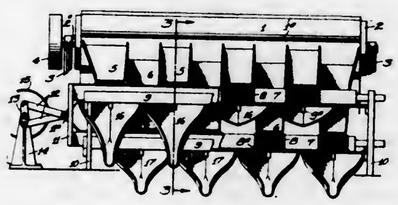
in said frame of said auxiliary hoist, hoisting cables trained around said drum and over suitable pulley sheaves in said frame and in the hoisting bridle, and means mounted on said auxiliary hoist for operating said drum.

1,430,010. PISTON FOR HYDROCARBON ENGINES. STEPHEN D. HARTOG, St. Louis, Mo. Filed Feb. 12, 1921. Serial No. 444,342. 18 Claims. (Cl. 74—108.)



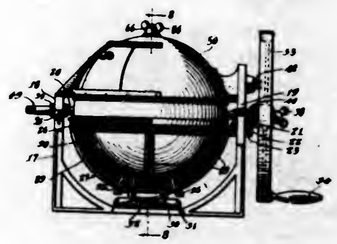
1. A piston which has a support for a piston pin, said support having integral connection with one side of the piston body only, and a head member connected to said support.

1,430,011. SARDINE-TURNING APPARATUS. FRANK HEATH, National City, Calif. Filed Feb. 2, 1922. Serial No. 533,573. 7 Claims. (Cl. 17—10.)



1. An apparatus of the class described, including brushes placed opposite each other adapted to receive fish between said brushes and mounted to reciprocate alternately with each other, and means for reciprocating said brushes.

1,430,012. MACHINE FOR MIXING, KNEADING, MASHING, COOKING, OR CHOPPING SUBSTANCES. LUCIEN HEISER, Los Angeles, Calif. Filed Oct. 19, 1921. Serial No. 508,710. 8 Claims. (Cl. 259—85.)



1. In a machine of the character described, the combination of a rotatably mounted bowl, a cover for the bowl, the bowl and cover together forming a spherical chamber, a beating and stirring element mounted to rotate within the chamber in a plane crossing the plane of rotation of the bowl, and means to simultaneously operate the beating and stirring element and the bowl, said means including a demountable shaft on which the beating and stirring element is detachably mounted and a set screw to secure said element to the shaft.

1,430,013. FOLDING DRAFT OR BLOWER PLATE. LLOYD HOPKINS and MCKINNEY HOPKINS, Wyco, W. Va. Filed Mar. 28, 1922. Serial No. 547,486. 7 Claims. (Cl. 126—135.)

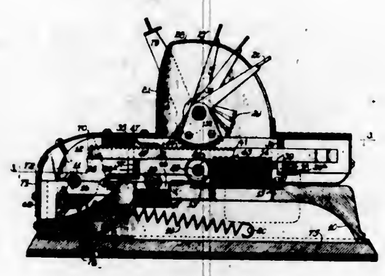


1. A device of the class described, including spaced clamps having inclined slots and adapted to be secured at the top of an open grate, said clamps being also provided with inclined bearing slots or openings, and a plate or blower having a pintle operating in the said bearing slots or openings and adapted to be swung upwardly over the said clamps, said plate or blower being provided with means for causing it to move outwardly in the said slots or openings when it is swung upwardly.

1,430,014. CHECK-WRITING MACHINE. THOMAS J. HYMAN, Oak Park, Ill. Filed Nov. 30, 1921. Serial No. 518,847. 10 Claims. (Cl. 101—19.)

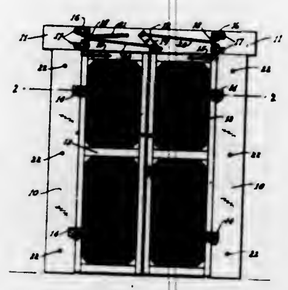
1. A check writing machine comprising, in combination,

a base, a frame hinged thereto, printing and punch actuating means carried by said frame, the base being provided



with a printing bed and with a set of punches adapted to cooperate with a die.

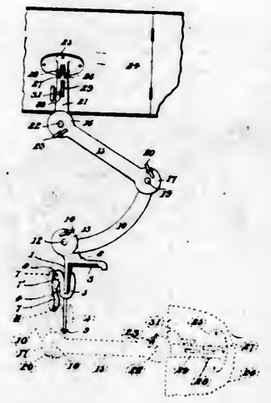
1,430,015. SCREEN DOOR. JOSEPH ICHER, Sagamore, Pa. Filed Oct. 22, 1921. Serial No. 509,485. 1 Claim. (Cl. 156—14.)



A door structure of the character described comprising a permanent frame adapted to be secured upon the door frame of a building, a pair of doors proper hinged within said frame, rods mounted at the upper outer corners of the doors proper and including horizontal portions secured thereto and vertical portions journaled upon the frame, said vertical portions being formed with cranks, a rocker arm pivoted centrally upon the top of the frame, and links pivotally connected with the rocker arm and with said cranks.

1,430,016. FOLDING-BED TABLE. MICHAL KOLTUNSKI, Chicago, Ill. Filed Aug. 12, 1921, Serial No. 491,763. Renewed May 11, 1922. Serial No. 560,249. 1 Claim. (Cl. 45—82.)

A folding bed table comprising a base support having a pair of angularly disposed legs adapted to enclose the side rails of a bed, a U-shaped clamp slidably associated with one of the legs and enclosing said leg and the adjacent side of the bed rail, a cam lever carried by said clamp and adapted to engage the adjacent leg of the base support to hold the same in its clamped position, pivoted link arms

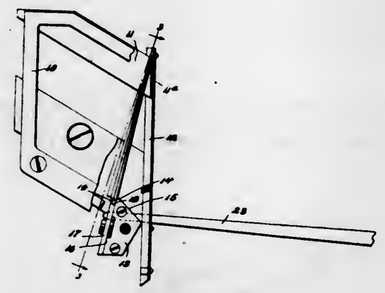


carried by said base support, and a table top adjustably supported by said link arms.

1,430,017. PROCESS FOR THE REMOVAL OF SOAP CONTAINED IN THE SLUDGE OF CARBONATE OF LIME. PETER KREBITZ, Munich, Germany. Filed June 15, 1921. Serial No. 477,787. 2 Claims. (Cl. 87—16.)

2. The herein described process of recovering residual soap from carbonate of lime sludge, which consists in adding to the sludge cocoa-nut oil soap equal in quantity to from one to six per cent of the sludge.

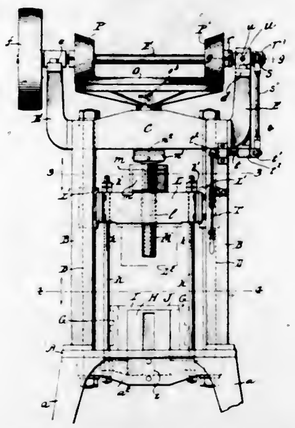
1,430,018. SPACE-BAND MECHANISM. FREDERICK W. LETSCH, Baltimore, Md. Original application filed Mar. 15, 1918, Serial No. 222,760. Divided and this application filed Nov. 5, 1920. Serial No. 422,065. 3 Claims. (Cl. 199—22.)



1. In a mechanism of the kind described, a space band magazine, means for supporting space bands at their upper ends in said magazine, an abutment engaging the lower end of the foremost space band of a group for holding the same normally in inclined position, said abutment having an inclined front surface arranged substantially parallel to the space bands when the same are normally positioned against the abutment, a lifting device slidably mounted on said inclined surface of the abutment and adapted to lift the foremost space band and permit the same to swing

over said abutment, said device having a projection on its upper end for separating the front space band of a group from the one adjacent thereto.

1,430,019. CERAMIC PRESS. HARRY D. LILLIBRIDGE, Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., New York, N. Y., a Corporation of New York. Filed Mar. 21, 1921. Serial No. 454,038. 12 Claims. (Cl. 25—27.)

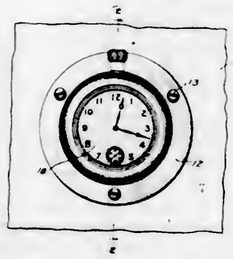


1. Pressing mechanism including a compression plunger, a feed nut and a rotative screw whereof said screw is free from endwise or traveling movement and acts by its rotative motion to impart sliding motion to the plunger, and a friction drive co-operating with said screw for imparting rotative motion only thereto.

1,430,020. PYROXYLIN COMPOSITION AND PROCESS OF MAKING THE SAME. WILLIAM G. LINDSAY, Newark, N. J., assignor to The Celluloid Company, a Corporation of New Jersey. Filed Feb. 16, 1920. Serial No. 359,108. 6 Claims. (Cl. 106—37.)

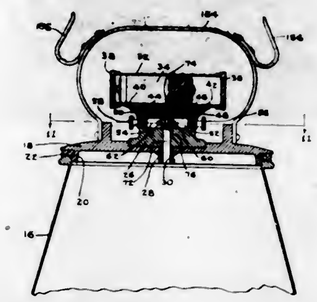
1. A composition of matter comprising nitro-cellulose and an aromatic phosphate in proportions of 100 parts of nitro cellulose to over 60 parts of the phosphate, said composition having a high degree of flexibility.

1,430,021. WATCH HOLDER. ALEXANDER MILNE, Newark, N. J., assignor to Newark Watch Case Material Company, Newark, N. J., a Corporation of New Jersey. Filed Jan. 30, 1922. Serial No. 532,707. 6 Claims. (Cl. 58—56.)



5. A watch holder of the class described comprising a housing adapted to receive a watch therein and render the dial thereof visible, a cross member detachably engaging portions of said housing, a thumb screw threadedly engaging said cross member, and a disc-shaped member carried by said thumb screw and adapted to exert a forward thrust upon the watch within the housing.

1,430,022. MILKING APPARATUS. WILLIAM MORGAN, Minneapolis, and CLARENCE J. MUCKLE, St. Paul, Minn., assignors, by mesne assignments, to Independent Milking Machine Company, a Corporation. Filed Nov. 22, 1920. Serial No. 425,740. 5 Claims. (Cl. 31—101.)



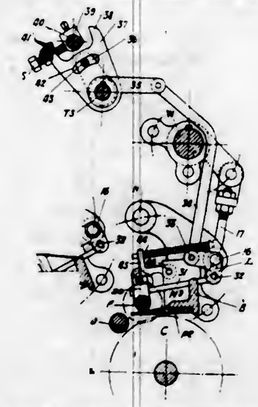
1. A milking apparatus comprising a milk receptacle, teatcups adapted to be connected with said receptacle, a cylinder, a piston in said cylinder, an oscillatory valve mounted adjacent said cylinder, a projection attached to said piston and slidable in a slot in said cylinder, said projection being adapted to hold said valve alternately in its extreme positions until said piston approaches the ends of its stroke, two spaced arms having resilient action and mounted to reciprocate with said piston and straddling a projection on said valve, and means controlled by said valve for causing pulsations in said teatcups.

2. A milking apparatus comprising a milk receptacle, teatcups adapted to be connected with said receptacle, a cylinder mounted on said receptacle, a piston in said cylinder, an oscillatory valve mounted adjacent said cylinder and having two locking surfaces separated by a release opening, a projection attached to said piston and slidable in a slot in said cylinder, said projection being adapted to engage said locking surfaces alternately until said piston approaches the ends of its stroke, two spaced arms having resilient action and mounted to reciprocate with said piston and straddling a projection on said valve, and means controlled by said valve for causing pulsations in said teatcups.

4. A milking machine comprising a milk receptacle, teatcups adapted to be connected with said receptacle, a cylinder mounted on said receptacle, a piston in said cylinder, an oscillatory valve mounted adjacent said cylinder, a projecting strip attached to said piston and slidable in a slot in said cylinder, said projecting strip being adapted to hold said valve alternately in its extreme positions until said piston approaches the ends of its stroke, a spring having two spaced arms secured to said projecting strip and having its free ends straddling a projection on said valve, said arms adjacent their points of attachment being bowed away from each other to provide greater resiliency, and means controlled by said valve for causing pulsations in said teatcups.

1,430,023. COMBING MACHINE. JOHN W. NASMITH, Manchester, England. Filed Apr. 9, 1921. Serial No. 460,142. 3 Claims. (Cl. 19—120.)

1. In a combing-machine of the character described, a nipper and feed roller mounted to swing on a common axis, a shaft and connections between the swinging nipper and roller and said shaft to transmit rocking movements



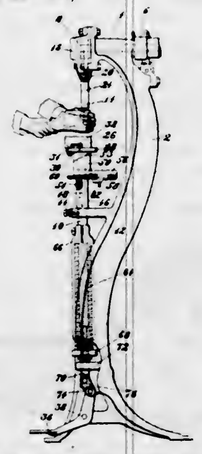
to the shaft, and adjustable devices connected with said shaft for variably limiting its rocking movements.

1,430,024. PROCESS OF PRODUCING COMPLEMENTAL PARTS. EDGAR B. NICHOLS, Rochester, N. Y., assignor to American Flyer Mfg. Co., Chicago, Ill., a Corporation. Filed Mar. 14, 1921. Serial No. 452,375. 6 Claims. (Cl. 76—107.)



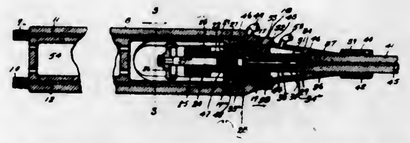
1. The process of producing cooperating complemental parts from a single piece of sheet metal which consists in stamping one part from the other, etching a cooperating edge of at least one of the parts, thereby producing the desired clearance between the several parts.

1,430,025. MACHINE FOR MOUNTING SHOES ON LASTS. CHARLES O. NORMANDY, Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 16, 1917. Serial No. 180,861. 41 Claims. (Cl. 12—15.)



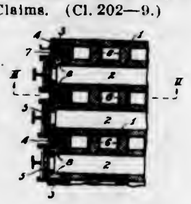
1. A machine of the class described having, in combination, means for engaging a last partially inserted in a shoe, and means constructed and arranged to impart a series of impulses to said last engaging means in a direction to force the last into the shoe.

1,430,026. WELDING TORCH. CHARLES H. PASCH, St. Louis, Mo. Filed May 3, 1920. Serial No. 378,576. 2 Claims. (Cl. 158—27.4.)



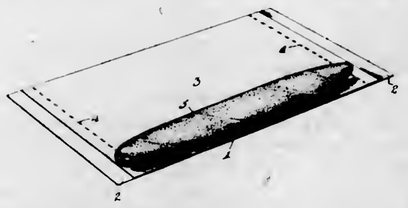
1. A welding torch comprising a handle having a pair of passages formed therein, a tapered portion secured to the forward end of said handle, a nozzle secured in said tapered portion, a passage way formed in said tapered portion, said passage way communicating with one of the first mentioned passages and with the interior of the nozzle, a valve stem secured in said nozzle for regulating the passage of gas therethrough, a chamber formed in the tapered portion and surrounding the nozzle, a tip pipe spaced apart from and surrounding the forward portion of the nozzle, a tip secured by said tip pipe, a passage for connecting the remaining passage in the handle, and the chamber in the tapered portion, passages formed through the tip pipe for permitting the gas from the chamber to enter and surround the nozzle, and a thumb wheel for operating said valve stem.

1,430,027. OVEN-WALL STRUCTURE. PIERRE PLANTINGA, Cleveland, Ohio. Filed May 1, 1920. Serial No. 378,234. 8 Claims. (Cl. 202—9.)



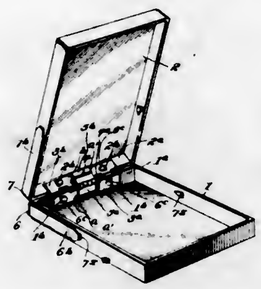
2. A jamb construction for oven walls consisting of high-temperature-resisting elements forming the central body portion thereof and ceramic elements which are non-spalling when subjected to cold air forming the side body portions thereof.

1,430,028. CIGAR WRAPPER. RICHARD SAMUEL REYNOLDS, Louisville, Ky. Filed Sept. 20, 1920, Serial No. 411,358. Renewed Aug. 16, 1922. Serial No. 582,252. 2 Claims. (Cl. 229—87.)



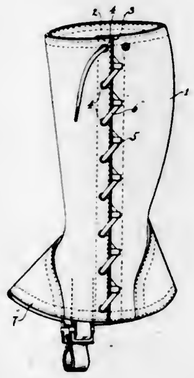
1. A wrapper comprising an outer sheet of air and moisture proof material and an inner sheet of tissue paper, said sheets being so proportioned that the inner sheet will entirely cover the article to be wrapped while the outer sheet will extend beyond to permit its surfaces to come into sealing contact in wrapping.

1,430,029. BOX. RUSSELL I. RHODES, Attleboro Falls, Mass. Filed Jan. 26, 1920. Serial No. 353,968. 2 Claims. (Cl. 229—44.)



2. In combination, a box of fibrous material, comprising two tray like members having laminated walls connected by a spring hinge at one end, reinforcing plates of flat sheet metal embedded in the walls which carry the hinges, said plates and the hinge leaves having aligning slots, and a flat plate of sheet metal having tongues passing through said slots and overturned to hold the parts together.

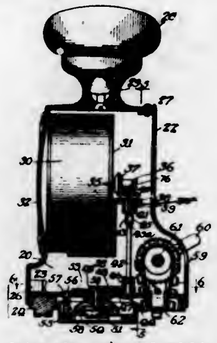
1,430,030. LEGGING. MORRIS ROSENWASSER, New York, N. Y., assignor to Rosenwasser Bros., Inc., Long Island City, N. Y., a Corporation of New York. Filed Dec. 18, 1919. Serial No. 345,818. 5 Claims. (Cl. 36—2.)



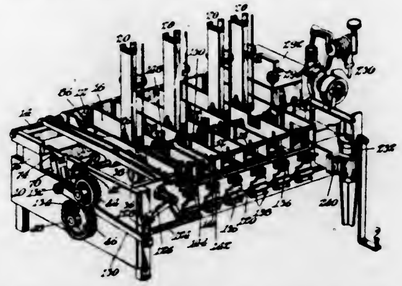
1. A legging of the class described comprising strips of material adapted to be wrapped about the leg of the wearer, a pair of fastening devices secured to the lower end of the legging, and a detachable stirrup having its ends adjustably secured to said fastening devices.

1,430,031. TIME STAMP. MORRIS SHERAS, Chicago, Ill., assignor to Michael Gesas, trustee, Chicago, Ill. Filed Aug. 4, 1917. Serial No. 184,398. 3 Claims. (Cl. 234—54.)

3. In a time stamp, the combination of a casing, a horological motor and its gears mounted within said casing, an apertured stamping surface unyieldingly fastened at the bottom of said casing and having suitable printing matter thereon, a yieldingly mounted impression dial normally extending below said surface, and time indicator impression members having their recording portions extending through said apertured stamping surface and lying in the same plane as the printing matter thereon, a complete impression being recorded as said dial yields under pressure, a band dater also mdunted within the casing, and ratchet and pawl mechanism accessible from without for setting the band dater.

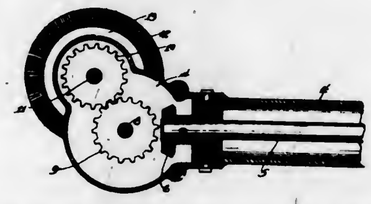


1,430,032. HEEL-BUILDING MACHINE. RALPH C. SIMMONS, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 1, 1916. Serial No. 81,405. 54 Claims. (Cl. 12—50.)



1. In a heel building machine, the combination of a series of lift magazines equal in number to the number of lifts in a complete heel blank, means for simultaneously removing a lift from each of said magazines and depositing all of said lifts in an alined row, and separate means for moving the entire row of said deposited lifts in the direction of their alinement through a distance equal to the spacing between adjacent magazines after each operation of the lift removing and depositing means.

1,430,033. CARBON REMOVER. JOHN F. SMERSCHNIK, Wilkes-Barre, Pa. Filed Jan. 18, 1921. Serial No. 438,206. 1 Claim. (Cl. 15—104.20.)

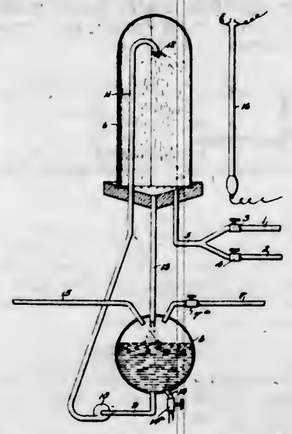


A carbon cleaner device comprising a hollow body, a casing at one end thereof having an offset portion, a motor secured to said body at the opposite end and having a shaft passing through said body and into said casing, a rotary brush mounted in said offset portion, and a train of gearing in said casing connected with said motor shaft and said brush, said motor having means thereon for handling said device.

1,430,034. VULCANIZED OIL PRODUCT. WALTER O. SNELLING, Allentown, Pa. Original application filed May 22, 1915, Serial No. 29,765. Divided and this application filed Aug. 8, 1919. Serial No. 316,022. 6 Claims. (Cl. 23—24.)

3. The process of producing vulcanized oil products which comprises reacting upon a fatty oil with sulfur chloride in excess of the amount required to produce vulcanization, and thereafter bringing the resulting product into contact with water.

1,430,035. MANUFACTURE OF ACIDS. WALTER O. SNELLING, Allentown, Pa. Filed July 17, 1920. Serial No. 397,112. 4 Claims. (Cl. 23—1.)

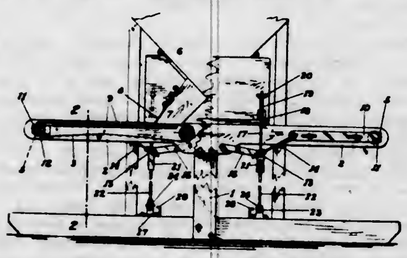


1. The process which comprises exposing a mixture of a halogen and sulfur dioxide to actinic rays in the presence of a spray of an aqueous fluid.

1,430,036. PLASTIC PRODUCT. WALTER O. SNELLING, Allentown, Pa. Filed Oct. 20, 1920. Serial No. 418,302. 2 Claims. (Cl. 99—11.)

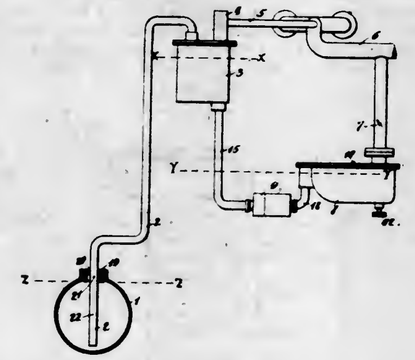
2. A chicle substitute comprising an ester of colophony.

1,430,037. BELT CONTROL FOR PICKING TABLES. ARCHIBALD R. STEPHEN, Lodi, Calif. Filed Dec. 20, 1921. Serial No. 523,702. 14 Claims. (Cl. 130—32.)



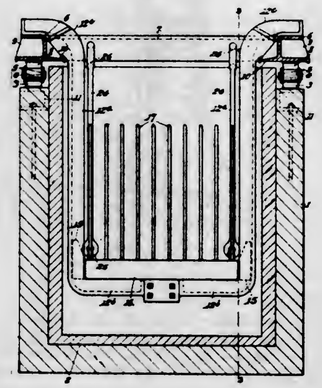
1. A picking table structure comprising an endless belt, a driven roller at one end of the belt over which the latter passes, another roller at the other end of the belt slidably mounted for movement in a plane parallel to the length of the belt, and foot actuated means for moving the last named roller.

1,430,038. LIQUID-FEED SYSTEM AND METHOD. CHARLES LAWRENCE STOKES, Los Angeles, Calif. Filed Jan. 9, 1918, Serial No. 210,965. Renewed Feb. 11, 1922. Serial No. 535,926. 7 Claims. (Cl. 158—36.)



1. The combination of a low level liquid fuel tank, a high level, single-chamber feed reservoir, a vacuum connection from said reservoir adapted to be fitted into the variable-vacuum induction pipe of a variable-throttle, variable speed internal combustion engine, an ascension pipe from said tank to said reservoir and having means for restrictedly admitting air thereto to lighten the weight of the ascending column, a carbureter having a float-controlled inlet valve, a down-flow pipe connecting said reservoir and said inlet and an automatic check valve for preventing reverse flow of fluid in said down flow pipe; the reservoir being positioned at such an elevation above said tank and said carbureter being positioned at such an elevation below said reservoir that the static head of the column of liquid in said down-flow pipe is greater than the weight of the column of mixed air and liquid in said ascension pipe for the purpose described.

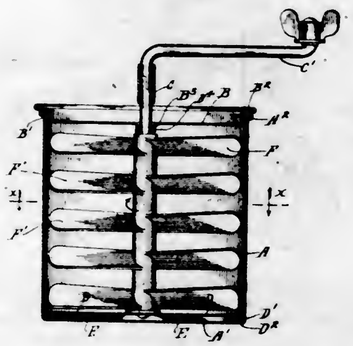
1,430,039. PICKLING APPARATUS. WILLIAM J. STOOP, Wheeling, W. Va. Filed July 16, 1921. Serial No. 485,316. 7 Claims. (Cl. 266—7.)



1. A pickling apparatus comprising a tank, trackways carried by the side walls of said tank, a carriage perma-

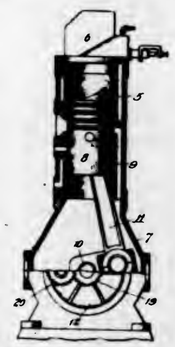
mently mounted for travel on said trackways and including U-shaped hangers depending within the tank, a plate-carrying rack adapted to be bodily lifted into and out of seated relation to said hangers, and means for producing reciprocatory travel of said carriage.

1,430,040. MIXING AND BEATING MACHINE. HENRY TRUST, Park Ridge, N. J., and FRANK M. ASHLEY, Brooklyn, N. Y.; said Ashley assignor of his one-half interest to Josephine Trust; Josephine Trust administratrix of said Henry Trust, deceased. Filed Jan. 21, 1920. Serial No. 353,032. 9 Claims. (Cl. 259—107.)



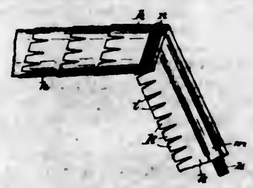
1. A machine of the character described comprising a receptacle, a beater comprising a tube having propeller blades located thereon and a disc carrying said beater and resting on the bottom of said receptacle at its periphery.

1,430,041. INTERNAL-COMBUSTION ENGINE. THEODORE H. VENN, Chicago, Ill., assignor to Venn-Severin Machine Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 13, 1918. Serial No. 262,286. 1 Claim. (Cl. 123—73.)



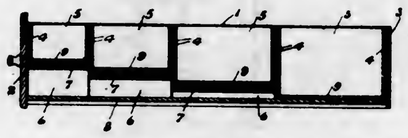
In an internal combustion engine, the combination of a cylinder, a piston, a crank-shaft operated by the piston, a crank case, a cylindrical valve separate from the crank-shaft extending through one side of the crank-case, having an induction port in its periphery and its inner end opening into one side of the crank-case, the latter being provided with a cylindrical seat for said valve and an air inlet in the seat and gearing directly between the crank-shaft and the valve.

1,430,042. HAULING CABLE. WLADIMIR VON RACHYNSKI, Bismarckmühle, near Lubasch, Germany. Filed Aug. 1, 1918. Serial No. 247,828. 3 Claims. (Cl. 173—13.)



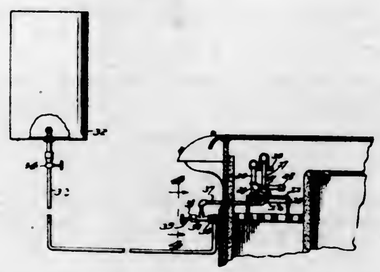
2. In a flexible hauling cable, the combination with an external hauling casing, of a conducting core comprising a metallic strip spirally wound and a metallic packing on said strip, one edge of said strip being slotted to form resilient tongues.

1,430,043. FILING APPLIANCE. ISAAC WAGEMAKER, Grand Rapids, Mich. Filed Jan. 17, 1921. Serial No. 437,715. 4 Claims. (Cl. 129—16.)



1. In combination with a receptacle having a bottom and sides, of a plurality of separate trays of different depths located side by side in the receptacle, and means connected with the trays for positioning them in the receptacle with their upper edges in substantially the same plane, substantially as described.

1,430,044. OIL BURNER. WILLIAM A. WALLACE, Johnston City, Ill. Filed Nov. 2, 1921. Serial No. 512,247. 1 Claim. (Cl. 158—63.)



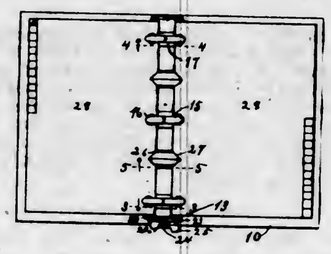
An oil burner of the character described including a base, pipes extending upwardly through the base, then laterally in opposite directions to the ends of the base, then downward and toward each other and terminating in burner caps having upwardly projecting nozzles, a pipe extending upwardly through the base and having oppositely directed branches, the ends of the branches extending downward toward the base and then forward beneath the burner nozzles of the first named pipes, the burner nozzles having rearwardly projecting jet apertures, the base beneath said burner nozzles being formed with wells for the reception of wicks, baffles disposed above the first named burner nozzles, a header, a fuel tank connected to the header of the valve casings connected to the header, pipes leading from two of the valve casings to the first named pipes projecting upward

from the base, a pipe leading from the third valve to the second named pipe projecting upward from the base, and valves in the valve casings controlling the passage of fuel through said pipes.

1,430,045. BEATER SIZING. HENRY M. WHEELWRIGHT, Newton Center, Mass. Filed May 6, 1919. Serial No. 295,060. Renewed Mar. 3, 1922. Serial No. 540,920. 6 Claims. (Cl. 92—21.)

1. The method of engine sizing paper which consists in mixing previously boiled soluble modified starch with rosin size, diluting it, and mixing it with the pulp in the beater to assist in the precipitation of the rosin in a colloidal condition in the beater and reduce the amount of rosin necessary.

1,430,046. LOOSE-LEAF BOOK. RALPH G. WHITLOCK, Los Angeles, Calif., assignor to E. D. Whitlock and M. H. Whitlock, both of Los Angeles, Calif. Filed Jan. 2, 1920. Serial No. 349,056. 3 Claims. (Cl. 129—24.)



1. In a loose leaf book a sheet having registering notches in the inner edge in combination with a ring frame having registering blocks secured thereto, said blocks having edges which are a segment of a circle, the projecting edges being V-shaped in cross-section.

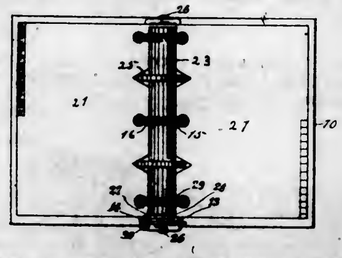
2. In a loose leaf book having a back frame in which are side members, an opening and closing device comprising a lever arm rockably secured at one end on one of the side members; a link pivotally connected to said lever arm and rockably secured at one end on the other member; and a bar pivotally connected to the outer end of said lever arm.

3. In a loose leaf book the combination of side members pivotally connected at their ends; half ring members secured to said side members; connecting plates having inturned ends forming pockets in which are received said side members, said plates having at their sides downwardly projecting lugs with ends turned toward each other, said lugs being between said pockets; and a cover plate having lugs with outturned ends projecting upwardly therefrom and adapted to engage the inturned ends of the connecting plate lugs.

1,430,047. LOOSE-LEAF BOOK. RALPH G. WHITLOCK, Los Angeles, Calif., assignor to E. D. Whitlock and M. H. Whitlock, both of Los Angeles, Calif. Filed Feb. 16, 1920. Serial No. 359,178. 2 Claims. (Cl. 129—24.)

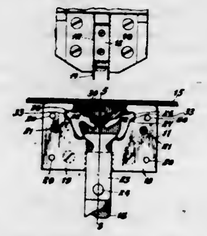
1. In a loose leaf book, a ring frame having plates provided with depending pierced lugs; a cover having a back plate provided with upwardly turned pierced lugs; and a connecting rod passing through said lugs whereby the ring frame and cover are secured together.

2. In a loose leaf book, a cover; a plate in the back thereof; ring frame plates adapted to be secured to said cover plate; a flanged guide block secured to said ring plates, said flanges being adapted to enter notches



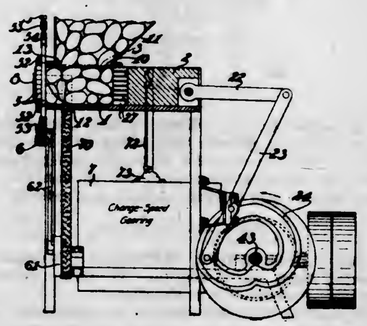
in a sheet, in combination with a sheet having in its inner edge ring holes and V-shaped notches.

1,430,048. STAPLING MACHINE. HOWARD G. ALLEN, Niagara Falls, N. Y., assignor to The J. L. Morrison Company, Inc., Niagara Falls, N. Y., a Corporation of New York. Filed Aug. 8, 1921. Serial No. 490,487. 3 Claims. (Cl. 1—4.)



2. A stapling machine comprising a clencher box having a pair of symmetrically disposed pivot ledges and a pair of clearance notches located above said pivot ledges, a vertically movable clencher lifter projecting upwardly into said clencher box, and a pair of imperforate clenchers each of which is provided on its outer edge with a pivot head which is received within and coacts with one of said pivot ledges during the first part of the upward movement of said clencher box and traverses the said clearance notch during the rest of the upward movement of said clencher box.

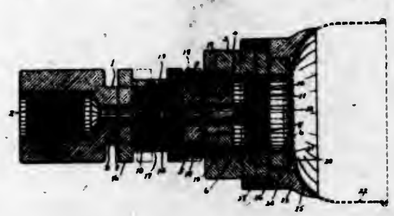
1,430,049. VEGETABLE-CUBING MACHINE. LEE ROY APPLEGATE, Seattle, Wash. Filed June 7, 1921. Serial No. 475,754. 8 Claims. (Cl. 146—7.)



1. In a machine of the character described, in combination with a feed box and a communicating hopper

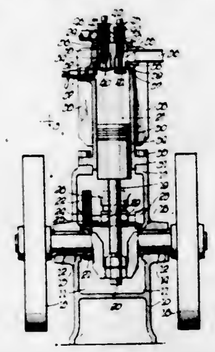
there above, means for moving vegetables longitudinally through the feed box, and a cut-off knife movable transversely of the feed box to separate the feed box and hopper.

1,430,050. PNEUMATIC CHUCK. MARTIN D. BECKER, Elkhart, Ind. Filed Feb. 25, 1921. Serial No. 447,849. 4 Claims. (Cl. 279—3.)



1. A pneumatic chuck comprising a holder provided with a head for receiving the work, said head being provided with a vacuum chamber; a yieldable packing element mounted upon the end face of said chuck head; an adjustable seat element mounted upon said head and adjustable relatively to said packing element, said seat element being adapted to be engaged by the work when the latter is applied to the chuck; a piston movable in said head chamber; means for actuating said piston prior to the application of the work to the chuck; and means for retracting the piston to create a vacuum in said head chamber to hold the work on the chuck.

1,430,051. CYLINDER-HEAD CONSTRUCTION. RAYMOND A. BECKWITH, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 24, 1920. Serial No. 360,716. 22 Claims. (Cl. 122—171.)

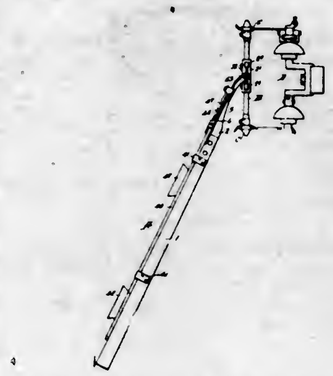


1. In combination, a cylinder having a substantially continuous bore, a cylinder head seated with the pressure created in said cylinder and a valve controlled passageway adapted for communication with the substantially continuous bore of said cylinder through said cylinder head.

1,430,052. SHARPENING MATERIAL. VAUGHN W. BROOKS, Joliet, Ill. Filed June 17, 1921. Serial No. 478,283. 3 Claims. (Cl. 51—280.)

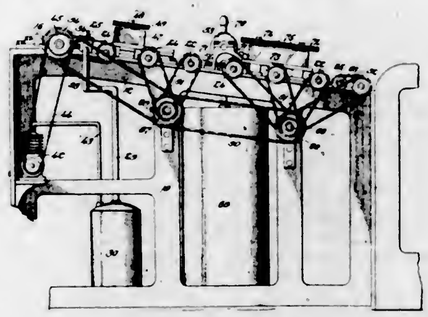
1. Sharpening material adapted for application to a strop consisting of ground natural quartziferous silica and natural iron and alumina in approximately the percentages specified.

1,430,053. FUSE-GRIPPING DEVICE. HAZEL B. BUSH, San Bernardino, Calif.; M. D. Douglas, administrator of said Hazel B. Bush, deceased. Filed Aug. 21, 1919. Serial No. 318,859. 9 Claims. (Cl. 81—3.)



1. An instrument of the character set forth comprising a handle, a pair of jaws carried by the handle for movement toward and from each other, a pair of gripping plates designed to embrace an object, said plates being adjustably carried by the jaws so that the axes of the plates may be altered with respect to the axis of the handle, means for locking the gripping plates to the jaws in any adjusted position and means for moving the jaws toward and from each other.

1,430,054. SHEET-METAL PLATING OR COATING MACHINE. NICHOLAS CAMELO, Rome, N. Y., assignor, by direct and mesne assignments, of one-third to Ida Jane Bliss, Utica, N. Y., and one-third to Mary L. E. Johnson, Camden, N. Y. Filed Aug. 16, 1920. Serial No. 403,889. 10 Claims. (Cl. 91—12.3.)



1. A machine for coating sheet material comprising, means for advancing the material through the machine, and means including an element disposed laterally with respect to the material and actuated by contact with the forward edge of the same to cause application of the coating substance thereto.

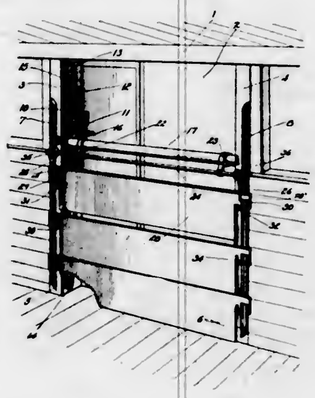
1,430,055. RAIL JOINT. MATT CARAPINA and FRANK NEVISTICH, Terry, S. Dak. Filed Jan. 31, 1922. Serial No. 533,086. 1 Claim. (Cl. 238—235.)

A rail joint including a male section consisting of a rail provided with a laterally enlarged inwardly tapered web and having a central vertical longitudinal tongue extending from the end of the rail at the bottom thereof and provided at the top with an upwardly extending terminal projection, said male section being provided with an extended base recessed at the upper face at opposite sides of the tongue to form smooth flat bearing surfaces and to provide inner shoulders, and an interlocking female section having a laterally enlarged inwardly tapered web provided in its lower portion with a longitudinal recess extending inwardly from the end of the female section and upwardly from the lower face of the same to receive the said tongue and provided at the top at its inner portion with a vertical branch or socket receiving the terminal projection of the tongue to interlock the sections



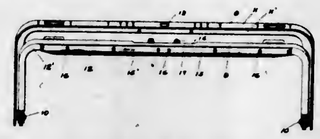
against relative longitudinal movement, said longitudinal recess and tongue extending upwardly from the bottom of the rails and terminating short of the heads of the same so as to leave the tread faces of the heads unbroken to the end of each rail, and said female section being also provided with extended base portions recessed at their lower faces at the bottom of the rail to form smooth unbroken surfaces and fitted upon the flat bearing surfaces of the male section and forming inner shoulders, and the said web being tapered horizontally to provide a substantially elongated elliptical web formation at the joint and of a width nearly equal to that of the head of the rails at the ends thereof and gradually decreasing in width to a point considerably beyond the end of each rail.

1,430,056. CAR DOOR. ERNST CHRISTENSON, Stockton, Kans., assignor of one-fourth to William I. Smith, Stockton, Kans. Filed Jan. 31, 1920. Serial No. 355,321. 9 Claims. (Cl. 20—27.)



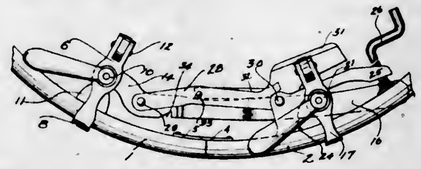
2. In a device of the class described, a plurality of door hangers arranged in vertical rows, a plurality of door sections, means for supporting said door sections, and means for bringing the door section supporting means in proximity to the door hangers whereby the door sections may be transferred from the door supporting means to the door hangers.

1,430,057. BAG FRAME. WILLIAM C. CLAUSEN, Wauwatosa, Wis., assignor to Milwaukee Stamping Co., West Allis, Wis., a Corporation of Wisconsin. Filed Mar. 21, 1921. Serial No. 454,003. 7 Claims. (Cl. 190—49.)



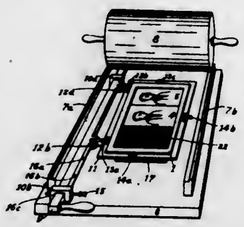
1. A bag frame, comprising a lock member, a hasp member connected thereto and having a recessed edge portion, and means angular in cross section for reenforcing said recessed edge portion.

1,430,058. RIM TOOL. EDWARD P. COFFEY, Spokane, Wash. Filed Nov. 21, 1921. Serial No. 516,606. 2 Claims. (Cl. 157—1.)



1. The combination in a tool as described of a yoke having a bearing head to engage one end of a split rim, a pair of clamping jaws pivoted on said yoke to engage the rim flanges, a perforated arm on the yoke and a screw bar therein to engage the rim, a second clamp device adapted to engage an adjoining rim-end, an operating lever pivoted on the latter device, and a draw link pivotally connecting said lever and yoke.

1,430,059. COLOR PHOTOGRAPHY. HIRAM C. J. DEEKS, Sea Cliff, N. Y., assignor to American Raylo Corporation, New York, N. Y., a Corporation of Delaware. Filed June 25, 1914, Serial No. 847,298. Renewed Nov. 9, 1920. Serial No. 422,969. 16 Claims. (Cl. 95—5.1.)

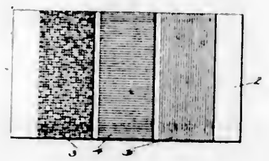


1. The method of making a coloured photographic print which consists in dyeing a film containing a volatile solvent by bringing it into contact with a photographic element holding a water-insoluble colouring matter soluble in said volatile solvent.

1,430,060. COLOR PHOTOGRAPHY. HIRAM C. J. DEEKS, Sea Cliff, N. Y., assignor to American Raylo Corporation, New York, N. Y., a Corporation of Delaware. Original application filed June 25, 1914, Serial No. 847,298. Renewed Nov. 9, 1920, Serial No. 422,969. Divided and this application filed Oct. 11, 1916, Serial No. 124,951. Renewed Apr. 9, 1921. Serial No. 459,978. 14 Claims. (Cl. 95—5.1.)

1. A color sheet for making colored photographic positives for subsequent transfer by a suitable agent, said

sheet comprising a base and a sensitizable medium thereon containing a dyestuff soluble in said agent and a protective material associated with said dyestuff also soluble in said agent but inert to the treatment to which the color sheet



is subjected to prepare it for the transfer, whereby the pigment produced by the combined dyestuff and protective material will neither affect nor be affected by said treatment but will yield to the transfer agent.

1,430,061. COLOR PHOTOGRAPHY. HIRAM C. J. DEEKS, Sea Cliff, N. Y., assignor to American Raylo Corporation, New York, N. Y., a Corporation of Delaware. Original application filed June 25, 1914, Serial No. 847,298. Renewed Nov. 9, 1920, Serial No. 422,969. Divided and this application filed Nov. 7, 1916. Serial No. 129,934. Renewed Apr. 9, 1921. Serial No. 459,979. 9 Claims. (Cl. 95—2.)

1. A compound pigment for use in making colored photographs or other pictures, comprising the combination of a dyestuff soluble in water and in alcohol and a material insoluble in water but soluble in alcohol, whereby said pigment will retain its color in water solutions but will yield it when treated with alcohol or alcohol containing substances.

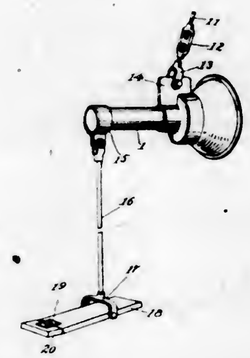
1,430,062. TOY. ALBERT HARRISON DE VOE, Westfield, N. J. Filed Nov. 26, 1920. Serial No. 426,559. 13 Claims. (Cl. 46—56.)



1. A toy including a plurality of symbols, a plurality of indicating devices, means for relatively moving the symbols and said indicating devices for the purpose of relatively repositioning the symbols and the indicating devices, and adjusting means for at will rendering a portion of said indicating devices temporarily ineffective.

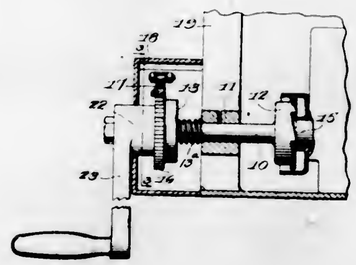
1,430,063. POLISHING HOLDER. CONRAD J. DIESEL and WILLIAM C. JACKSON, Cincinnati, Ohio, assignors to The Corcoran Victor Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 20, 1919. Serial No. 331,823. 3 Claims. (Cl. 51—236.)

1. In combination, a work holder, and means for mounting the same adjacent a burnishing wheel or the like, comprising an overhead support, connected to the holder so as to permit it to swing thereon, and a treadle permanently connected to a floor or base, and having a member pivotally secured to it and to the work holder at a point out of line with the overhead support and at such an angle that



a depression of the treadle will move the holder in a substantially horizontal path toward the wheel or the like.

1,430,064. SAFETY STARTING CRANK. CHRIST ERB, Belleville, Wis. Filed Sept. 7, 1921. Serial No. 499,028. 4 Claims. (Cl. 123—185.)

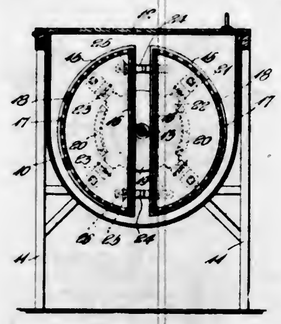


1. In a cranking device for an automobile engine, a stem having a clutch head on one end, a disk keyed on the stem and rotatable therewith, a ratchet wheel loosely mounted on the stem close to the disk and having a plurality of transversely inclined spokes, the periphery of the disk being formed with a plurality of notches, and a crank hub loosely mounted on the stem and having projecting inclined faces and lugs, the said inclined faces extending into engagement with the faces of the spokes, the said lugs extending through the spaces between the spokes and into the notches in the disk, and a spring for holding the lugs and faces in yieldable engagement.

1,430,065. WASHING MACHINE. EDWARD A. EUSTICE, Galesburg, Ill. Filed Jan. 10, 1921. Serial No. 436,393. 7 Claims. (Cl. 68—18.)

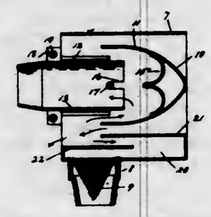
1. A washing machine comprising a tub adapted to contain water, a substantially cylindrical holder formed in separate clothes containing sections spaced apart and having perforated walls, a rotatable shaft extending through the tub between the sections, carriers rigid upon said shaft,

and means for releasably attaching the sections to the carriers, whereby said sections may be released from the car-



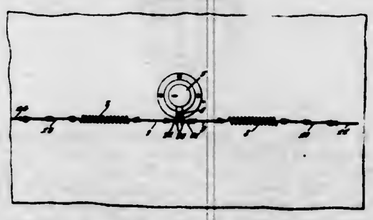
riers and bodily removed from the tub, rotation of the shaft causing the holder sections to swing into and out of water in the tub.

1,430,066. AIR CLEANER. EDWIN R. EVANS, Detroit, Mich., assignor of one-half to Byron F. Everitt, Detroit, Mich. Filed Dec. 30, 1918. Serial No. 268,911. 22 Claims. (Cl. 183—85.)



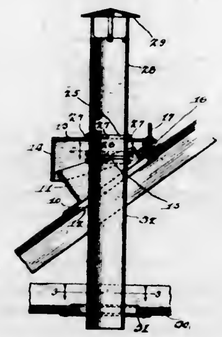
1 In an air cleaner, the combination with a cylindrical casing having open ends and an unobstructed passageway therethrough adapted for the passage of current of air therethrough, of a longitudinally extending partition in said casing, a convex hollow deflector in said casing and mounted upon said partition, and an air intake conduit extending into said deflector and mounted on said partition.

1,430,067. FIRE ALARM. ELIGAH H. FIELD, Buford, Ga., assignor of one-half to James T. Scales, Buford, Ga. Filed Apr. 1, 1921. Serial No. 457,614. 1 Claim. (Cl. 116—106.)



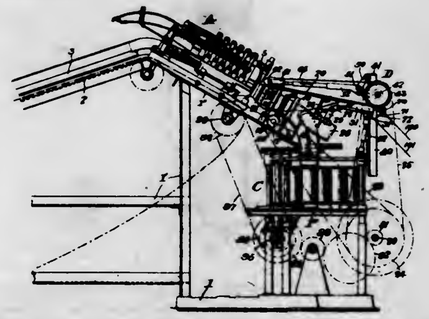
In combination with an alarm including a pivoted controlling lever having a bifurcated extremity, fusible cords having links secured thereto, said links being positioned over opposed furcations of the lever, coiled spring members having connection with the respective fusible cords, and disposed on opposite sides of the alarm the spring members being of equal tensions to normally hold the controlling lever in its inactive position, and means having connection with the spring members for normally holding the spring members under tension.

1,430,068. CHIMNEY. ARTHUR J. FILKINS, Chicago, Ill. Filed May 6, 1920. Serial No. 379,233. 3 Claims. (Cl. 285—31.)



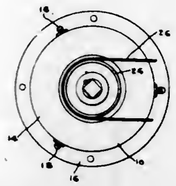
1. A chimney comprising a chimney pipe section and a chimney pipe section support, the latter comprising a plate perforated and having the chimney pipe detachably secured to the said plate with the interior thereof registering with the said perforation in the plate, a roof plate, a depending flanged or skirt portion on the chimney supporting plate, pivotal connections between the chimney supporting plate and the roof plate, a pipe extension formed integrally with the underside of the chimney supporting plate and registering with the chimney pipe and the said perforated portion in said plate, said integrally depending pipe section terminating substantially in the axial line of the pivotal connections between the said chimney support and the roof plate, and means for suspending a detachable pipe section from the said depending pipe section of the chimney support.

1,430,069. MACHINE FOR TREATING FRUIT. GEORGE EDWIN FISHER, Honolulu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a Corporation of Hawaii. Filed May 8, 1922. Serial No. 559,420. 9 Claims. (Cl. 146—11.)



1. A machine for treating fruit comprising a rotary tubular sizing head, means for slitting the shells, a guide table for flattening the shells including a substantially frusto-conical section surrounding the sizing head, and a laterally and upwardly flaring extension gradually merging into a plane surface, and means associated with said guide table for trimming the meat from the shells.

1,430,070. SPATULATING DEVICE. CHARLES F. FRANZWA, Eau Claire, Wis. Filed Apr. 6, 1921. Serial No. 459,106. 4 Claims. (Cl. 259—107.)



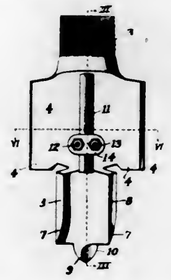
1. A spatulating device comprising a receptacle having imperforate walls, a shaft rotatably supported in said receptacle, and soft flexible blades attached to said shaft, said blades having a width sufficient to cause their outer portions to facially engage the interior of said receptacle on account of their inherent flexibility.

1,430,071. NECK YOKE. ALGER R. FRIBERG, Appleton, Wis. Filed July 25, 1921. Serial No. 487,227. 2 Claims. (Cl. 278—121.)



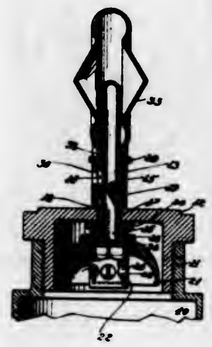
1. A yoke having a hook whose bill turns inwardly toward the yoke and whose shank is provided with a longitudinal slot having parallel sides, and a spring wire arm extending through the slot of said shank and across the end of said bill and being held against lateral displacement from said bill by the parallel sides of said slot.

1,430,072. WELL-DRILLING BIT. FRED GIERSE, Beaumont, Tex. Filed May 5, 1920. Serial No. 379,125. 3 Claims. (Cl. 255—61.)



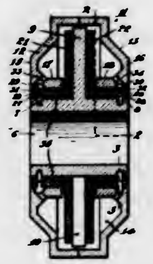
1. A drill bit of the class described, including a central body portion having a guide cutter formed at its lower end, a plurality of cutting blades formed on the body adjacent the guide cutter, a second series of cutting blades formed on the body above the first series and disposed at an angle with respect thereto, conveyor pipes secured to the body and having communication with spaces between the cutting blades of the first series whereby to remove the material after being acted upon by the blades.

1,430,073. ALARM MECHANISM FOR RADIATOR TANKS. LAFAYETTE C. GOBETZ, Brooklyn, N. Y. Filed Aug. 18, 1921. Serial No. 493,254. 7 Claims. (Cl. 116—137.)



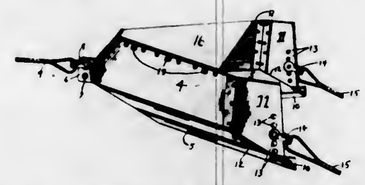
3. For use on radiator tanks of motor vehicles and in combination with the filler-cap thereof, alarm mechanism operable by steam pressure within said tank comprising a whistle-stem extending through the top of said cap and secured thereto and having its sound-opening above said cap, a dome applied upon the lower end of said stem for directing steam thereto, a casing secured within said dome and below the lower end of said stem and being open at its ends and sides and affording therein a float chamber, and a float normally resting in the lower end of said chamber and exposed on both faces to steam pressure and adapted on the rise of water against the same to move upwardly and close the lower end of said stem, for excluding water therefrom.

1,430,074. BEARING. EUGENE H. GRAFTON, Los Angeles, Calif. Filed Nov. 18, 1920. Serial No. 424,973. 5 Claims. (Cl. 64—32.)



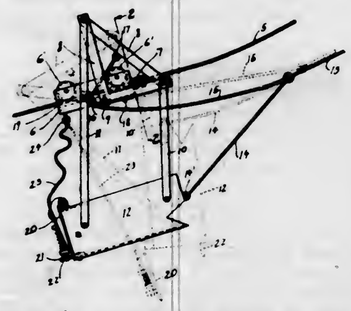
1. In a bearing, an inner cylindrical member having a peripheral web formed with radial slots and formed with circumferential grooves on opposite sides of the web, an outer housing member having inturned annular flanges encircling the inner member, said inturned flanges having inner peripheral grooves arranged opposite the grooves on the inner member, and a pair of annular bushing members interposed between the inner member and the inturned flanges of the outer member having inner annular channels registering with the grooves on the inner member and formed with apertures leading from the channels and communicating with the grooves on the outer member.

1,430,075. SCRAPER. LESLIE P. GREEN, Chicago, Ill. Filed June 9, 1921. Serial No. 476,190. 11 Claims. (Cl. 37—19.)



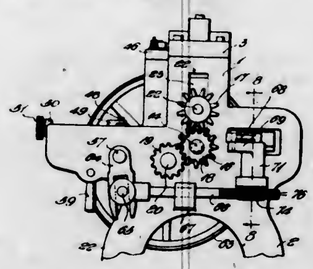
3. A scraper comprising scraping members arranged in forwardly divergent relation to each other; and a cover portion extending between the upper portions of said scraping members to rest upon material gathered between them and cause said scraper to ride upon said material when substantially filled, substantially as described.

1,430,076. EXCAVATOR. LESLIE P. GREEN, Chicago, Ill. Filed June 24, 1921. Serial No. 479,990. 7 Claims. (Cl. 37—19.)



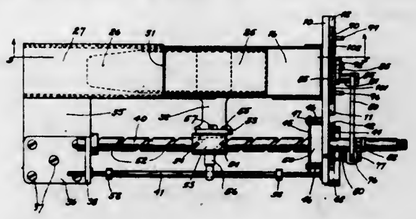
3. An excavator comprising a travelling carriage; an excavating bucket supported thereon; a draw cable having two branches, one leading to said bucket and the other to said carriage; means operable by a shift of tension from one of said branches to the other for dumping said bucket rearwardly; a tail gate for said bucket; and means for automatically opening said tail gate upon dumping of said bucket, substantially as described.

1,430,077. SKIVING MACHINE. HIRAM R. HAGGETT, Lynn, Mass. Filed June 21, 1920. Serial No. 390,477. 13 Claims. (Cl. 12—63.)



8. A skiving machine comprising a cavity roll, a feed roll operatively associated with said cavity roll and transversely divided into two relatively movable sections, means mounting the outer ends of said roll sections for pivotal movement toward and from the cavity roll and for movement bodily with respect to said roll, and spring means normally resisting both movements of said roll sections.

1,430,078. BUTTER-CUTTING MACHINE. EDMUND HARTUNG, Jersey City, N. J. Filed Aug. 31, 1921. Serial No. 497,337. 5 Claims. (Cl. 31—65.)

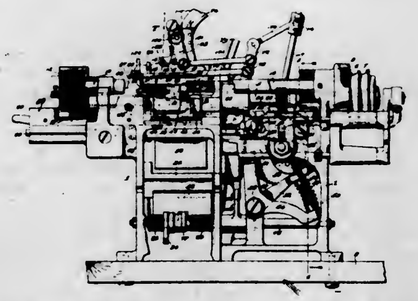


1. In a butter cutting machine, a frame, a hopper, a trough, a ram within said trough, a spirally grooved rod, means therewith for operating said ram, a spring co-acting between said frame and ram, means for winding said spring, and other means for automatically releasing said spring and returning said ram to normal outward position.

3. In a butter cutting machine, a frame, a hopper secured to said frame, a trough below said hopper, a ram operable in said trough, a securing bar fixed to said trough, a bracket on said bar, a spirally grooved feed rod, a gear attached to said feed rod, a ratchet fixed to said gear, said feed rod passing through said frame and said bracket, and means engaging said spiral grooves for operating said ram.

5. In a butter cutting machine, the combination of a frame, a crank shaft rotatable therethrough, a segmental gear on said crank shaft, a feed gear engaging said segmental gear, a ratchet secured to said feed gear, a feed rod secured to said feed gear and said ratchet, a spring locking pawl engaging said ratchet, a releasing bar, means co-acting with said feed rod and release bar for disengaging said pawl from said ratchet, and means with said crank shaft for intermittently causing said feed rod to rotate, and other means with said crank shaft for causing a cutting means to operate in timed relation to the movement of said feed rod substantially as described.

1,430,079. BOBBIN-WINDING MACHINE. PARK A. HERR, Hillside, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Dec. 5, 1919. Serial No. 342,794. 39 Claims. (Cl. 242—18.)



10. A machine for winding bobbins or the like comprising a pair of clamping elements for gripping a

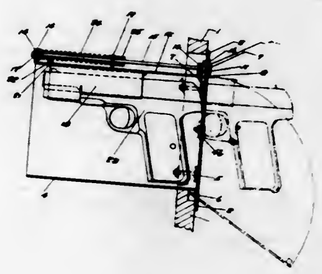
bobbin while it is being wound, means for rotating one of said clamping elements, means for retracting one of said elements to discharge the filled bobbin including a pivoted bellcrank-lever, a cam-follower, a spring between the cam-follower and one arm of said bellcrank-lever, a cam operating said follower to compress the spring which operates through the bellcrank-lever to move one of the clamping elements to clamp a bobbin in winding position, a cam-follower on the other arm of said bellcrank-lever and a cam adapted to move said follower to retract said clamping element from bobbin clamping position.

1,430,080. LATH. WILLIAM D. HICKS, Los Angeles, Calif. Filed Dec. 8, 1919. Serial No. 343,226. 11 Claims. (Cl. 72—124.)



1. In a composition lath board, a plastic body, a facing sheet covering same, and depressions in said plastic body having side walls lined with said facing sheet and the bottom wall exposed, throughout a major portion of the depression.

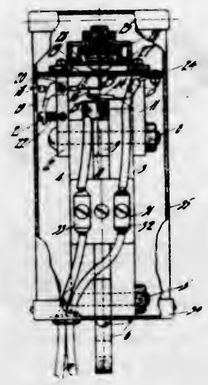
1,430,081. PISTOL-HOLDING DEVICE. ALBERT R. HOLLER, Erie, Pa. Filed Feb. 8, 1922. Serial No. 535,105. 9 Claims. (Cl. 196—37.)



1. The combination of a supporting wall having an opening therethrough; a cover for the opening; a pistol mounting; and means acting on the mounting to move a pistol through the opening as the cover is opened.

1,430,082. TELEPHONE REPRODUCER. FRANK HOLMSTROM, Jr., Chicago, Ill., assignor, by mesne assignments, to Charles R. Bennett, Kansas City, Mo. Filed Nov. 3, 1917. Serial No. 200,218. Renewed Sept. 22, 1921. Serial No. 502,511. 10 Claims. (Cl. 179—171.)

1. In a reproducer, a receiver element having an armature, a resilient element secured to oppose the magnetic pull of the receiver magnet armature to hold it away from the magnet polepiece, means for adjusting the opposing forces to regulate the distance between armature and polepiece, a microphone unit, means for linking the diaphragm of said unit to said element after the pull of

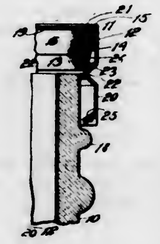


the opposing forces is adjusted and means for anchoring the back of the microphone after the adjustment.

1,430,083. COATING COMPOSITION. ALBERT C. HOLZAPFEL, New York, N. Y. Filed June 15, 1922. Serial No. 568,633. 2 Claims. (Cl. 134—54.)

2. A surface coating composition comprising pitch derived from the treatment of oils and fats, a solvent for said pitch, and from ½ to 2 per cent, by weight of rubber.

1,430,084. CLOSURE FOR JARS, BOTTLES, AND OTHER RECEPTACLES. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1919. Serial No. 322,401. 3 Claims. (Cl. 215—40.)

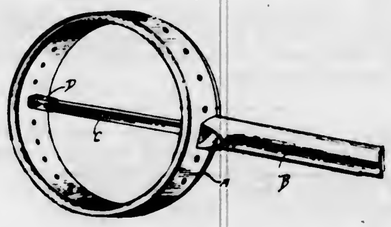


1. A receptacle and a closure therefor comprising a top, a skirt portion to encompass the neck of the receptacle and annularly grooved inwardly suitably below its upper end to form a gasket supporting inset annular shoulder and above the same an annular recess for a gasket, and a gasket in said recess adapted to fill the same and to seal against the side of the neck of the receptacle and initially not filling said recess and having a downwardly and outwardly tapered lower edge a portion of which initially extends inwardly over the lip of the receptacle to be displaced by said lip into said recess, and said receptacle having on its neck and below its sealing zones corresponding inclined ribs which are laterally spaced apart at their adjacent ends and independent of one another and each having a clear vertical space above it extending to the top of the receptacle, and said skirt having inwardly extended lugs to engage said ribs, said lugs passing directly down between the adjacent ends and below the upper plane of the ribs on the application of the closure to position and being adapted on the removal of the closure to leave the ribs they engaged and thereafter move to and ride upwardly upon the upper surface of the adjacent ribs in series.

1,430,085. PROCESS OF TREATING BIOTITE. JAMES KEETH, Spokane, Wash. Filed Apr. 12, 1921. Serial No. 460,827. 1 Claim. (Cl. 134—1.)

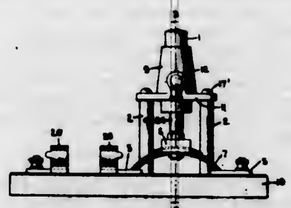
The process of treating biotite which consists in subjecting the "books" to approximately a temperature of 700° F. whereby the books are dehydrated and lofted, and subsequently comminuting the dehydrated and lofted books.

1,430,086. BANJO ATTACHMENT. KILLIANUS KOTTMEYER, Milwaukee, Wis. Filed Dec. 5, 1921. Serial No. 520,093. 2 Claims. (Cl. 84—269.)



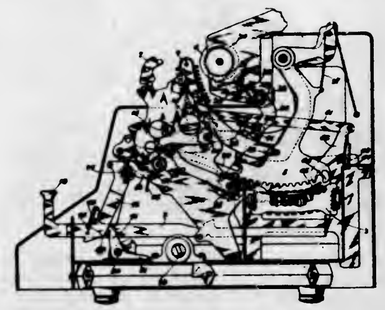
1. In a banjo, the combination with the rim and dowel stick, of a metal ferrule having a socket in its inner end portion receiving the onter end of said dowel stick and a screw-threaded socket in its outer end portion, means securing said ferrule to said dowel stick, and a screw extending through said rim and into said screw-threaded socket for firmly securing said rim and dowel stick together, said screw-threaded socket being of sufficient depths to provide a firm anchorage for the screw independent of the dowel stick.

1,430,087. SAFETY SWITCH. FRANK T. KOVAR and JOSEPH F. JIRKA, Cleveland, Ohio. Filed Apr. 11, 1921. Serial No. 460,575. 5 Claims. (Cl. 200—78.)



1. A safety switch comprising stationary spaced contacts, electrical conducting members for bridging the space between the contacts, a plunger carrying the conducting members, a support for the plunger in fixed relation to the stationary contacts, a spring urging the plunger in a direction to carry the conducting members away from the contacts, relatively movable means carried by the plunger and adapted to engage the support and lock the plunger in position with the conducting members bridging the contacts, and manually operable means in the support for releasing the locking means, whereby the spring will open the switch with a snap action.

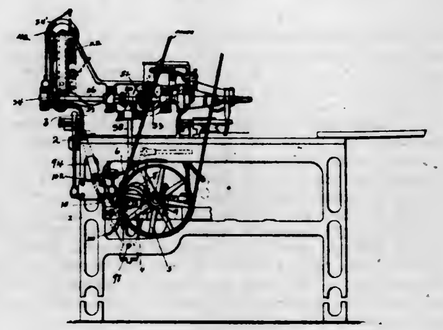
1,430,088. ADDING, CALCULATING, AND RECORDING MACHINE. HARRY LANDSIEDEL, Norwood, Ohio, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 28, 1920. Serial No. 392,416. 38 Claims. (Cl. 235—60.)



1. In a machine of the character described, the combination of type-carriers, type on said type-carriers, spring actuated hammers for driving the type on said type-carriers to print, a latch for holding each of said hammers in a retracted position, a bail device for releasing latches corresponding to the type-carriers in recording position, and means for preventing effective operation of said bail device, leaving all latches holding corresponding hammers when any of the type carriers operate irrespective of the positions to which the type-carriers move.

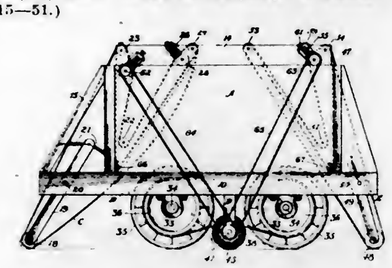
24. In a machine of the character described, a platen, platen rotating mechanism, type driving hammers, latches holding the hammers retracted, and a bar operable to release the latches from the hammers, in combination with a manipulative lever, connections operated by said lever, a device operated by said connections to prevent operation of the platen rotating mechanism, and an additional device operated by said connections to prevent said bar from operating to release said latches.

1,430,089. WEB FEEDING AND CUTTING DEVICE. IGNACIO LAZAGA, Salem, Va. Original application filed Dec. 19, 1918, Serial No. 267,511. Divided and this application filed May 31, 1919. Serial No. 301,008. 7 Claims. (Cl. 164—42.)



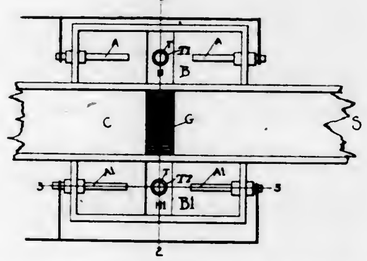
1. In a wrapping machine, the combination of a reel, a measuring device operating to intermittently feed a measured strip from said reel, constantly operating feed rollers located between said reel and said measuring device arranged to feed "slack" from said reel sufficient to provide said measured portion, and a severing device for cutting off the measured strips, said measuring device feeding the slack directly to said cutting device.

1,430,090. WASHING, SCRUBBING, AND DRYING MACHINE. JOHN LENCE, Regina, Saskatchewan, Canada. Filed May 4, 1920, Serial No. 378,764. Renewed May 1, 1922. Serial No. 557,559½. 4 Claims. (Cl. 15—51.)



4. A floor cleaning machine comprising a wheeled frame, a pair of spaced tanks carried by the opposite ends of the frame, a rotary brush carried by the frame, an endless washing cloth carried by the frame positioned in front of the rotary brush and arranged to extend through one of the tanks, an endless drying cloth carried by the frame in rear of said rotary brush and arranged to extend through the other of said tanks, and means for operating said brush and said cloths.

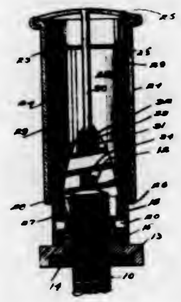
1,430,091. AMALGAMATING CELL. CHARLES CORLISS MCBRIDE, Sanger, Calif. Filed Oct. 22, 1921. Serial No. 509,665. 4 Claims. (Cl. 83—65.)



1. In an amalgamator the combination of a sluice having an amalgamated plate with an opening therethrough forming a part of the bottom, and a grizzly attached to the under surface of the bottom and covering the opening, a container formed independent of the sluice having a duct leading from the bottom of the container and extending under the bottom of the sluice, the duct having an opening in its top registering with the opening in the amalgamated plate, a return lead from the duct at a point beyond the amalgamated plate to the container, mercury within the duct and covering the bottom of container to the level of the amalgamated plate, a solution containing sodium chloride within the container above the mercury, electric leads from a source of electrical energy to the mercury and to the solution containing sodium chloride, and means for keeping the mercury in circulation in the duct, substantially as described.

1,430,092. VALVE CAP. DANIEL W. MANNHARDT, Washington, Iowa. Filed Oct. 17, 1921. Serial No. 508,127. 6 Claims. (Cl. 152—12.)

1. In a valve stem cap, a nut designed to be mounted on a valve stem casing, a yoke device having arms pivotally mounted on said nut for rotation thereon, a slidable tubular casing for the ends of said arms, which are secured to the nut, a second tubular casing snugly telescopically mounted on the first casing, said casings having coacting outwardly and inwardly projecting flanges to limit their relative sliding movement, a valve stem cap, a stem se-



cured to said cap and to said second casing and slidably mounted in said yoke device, a spring stop on said yoke device, and a spring within said tubular casing between said stop and said flanges.

1,430,093. EYES OF DOLLS, TOY ANIMALS, AND THE LIKE. THOMAS MATHEWS, Leicester, England; Annie Mathews and Harry W. Buckingham, executors of said Thomas Mathews, deceased. Filed Dec. 4, 1919. Serial No. 342,311. 3 Claims. (Cl. 46—40.)

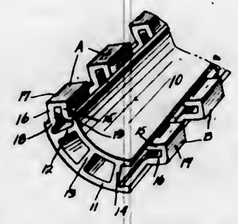


1. A cardboard doll, figure or like toy, consisting of a cut out body having eye openings therein, a flat cardboard frame attached to the rear of said body and having an opening therein, and a flat cardboard member having eyes and a flesh coloured portion thereon and capable of a free limited movement in two opposite directions in the opening of the frame, to expose the eyes and flesh coloured portion behind the eye openings in the body, substantially as described.

1,430,094. SECTIONAL CLAY BLOCK STRUCTURE FOR SEWERS AND DRAINAGE. FREDERICK H. MEIER, Webster City, Iowa. Filed May 29, 1919. Serial No. 300,604. 3 Claims. (Cl. 72—51.)

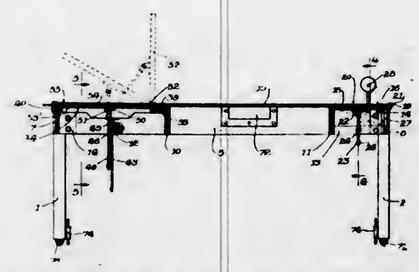
1. In a device of the class described, a plurality of sections of plastic material, each comprising an inner and outer wall and transverse connecting walls, each section having at each side a plurality of projecting hollow tongues spaced from each other longitudinally of the section and thinner than the body of the section, each tongue being spaced from the adjacent transverse wall, so as to leave a hollow space in the tongue and in the adjacent body portion of the section extending from the interior of the tongue beyond said tongue and into the interior of the body of the section, the tongues on one side of each

section being staggered with relation to the tongues on the other side thereof, said sections being arranged in a tile or the like, comprising a plurality of sections arranged



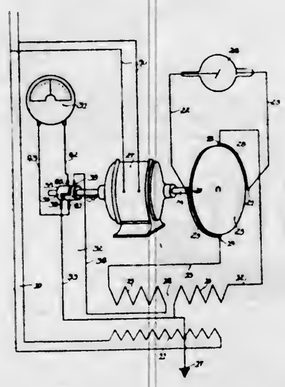
in a circle with the tongues of the side edges of each section projected between and beyond the tongues of the side edges of the adjacent section and into the bodies of the adjacent sections.

1,430,095. THERAPEUTIC APPARATUS. WILLIAM MEYER, Chicago, Ill. Filed Dec. 18, 1918. Serial No. 267,234. 11 Claims. (Cl. 250—34.)



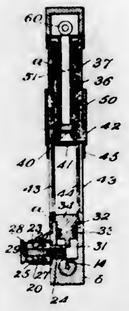
6. An X-ray table, having a fixed section of slightly greater length than is necessary to support a human trunk and head, said section having a notch in one end, and a tiltable head rest pivoted about the inner edge of said notch.

1,430,096. X-RAY APPARATUS. WILLIAM MEYER, Chicago, Ill. Filed Nov. 17, 1920. Serial No. 424,600. 3 Claims. (Cl. 175—364.)



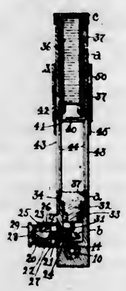
1. In combination, a transformer comprising a primary winding and a secondary winding, said secondary winding comprising two sections, primary and secondary circuits for the primary and secondary windings, a fixed ground connection between said secondary winding sections, a commutator and a uni-directional current meter connected through said commutator in series with the secondary winding at the fixed ground connection between the sections thereof.

1,430,097. PRESSURE GAUGE. EDWARD FRANK MILLS, Lynn, Mass. Filed Sept. 10, 1920. Serial No. 409,324. 8 Claims. (Cl. 152—11.5.)



1. In a fluid pressure gauge, in combination, a casing, a cylinder connected with one end of said casing, a piston in said cylinder having a projection extended into the said cylinder and a piston rod extended into said casing, a relief valve for said cylinder having a stem extended into said cylinder and provided with a collar co-operating with said projection to enable said relief valve to be locked by said projection in its closed and opened positions, a tension spring in said casing having one end connected with said piston rod, a movable head in said casing with which the opposite end of said spring is connected, a device movable on the outside of said casing and connected with said head to move therewith, and an expansible member located in said casing and co-operating with said head and responsive to fluid pressure to effect movement of said head and said device in opposition to said spring.

1,430,098. PRESSURE CONTROLLER OR INSTRUMENT. EDWARD FRANK MILLS, Salem, Mass., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y., a Corporation of New York. Original application filed Feb. 24, 1916, Serial No. 80,277. Divided and this application filed Dec. 4, 1916. Serial No. 134,834. 15 Claims. (Cl. 152—11.5.)

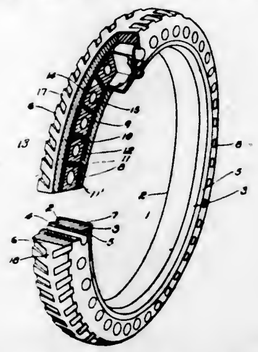


10. In a device of the character described, in combination, a casing, a relief valve for said casing, a device for automatically locking said relief valve in its open position following the operation of said relief valve.

1,430,099. SOAP. JOHN R. MILSON, Watertown, Mass., assignor to Pioneer Chemical Company, Revere, Mass., a Corporation of Massachusetts. Filed May 9, 1919. Serial No. 295,869. 3 Claims. (Cl. 87—5.)

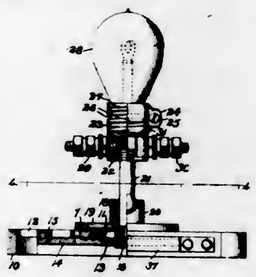
1. A soap formed of a mixture of animal oil, petroleum oil, an alkali, a sodium silicate, aluminum chloride and water in suitable proportions.

1,430,100. TIRE. LAWRENCE O. MITCHELL, Kansas City, Mo. Filed Oct. 15, 1920. Serial No. 417,091. 7 Claims. (Cl. 152—1.)



6. A tire consisting of a plurality of rubber blocks, Z-shaped binder fabrics between the blocks, one end of each fabric overlapping the inner face of one block and the other end overlapping the outer face of an adjacent block, the outer ends of the fabrics overlapping one another, and a covering for said blocks and fabrics.

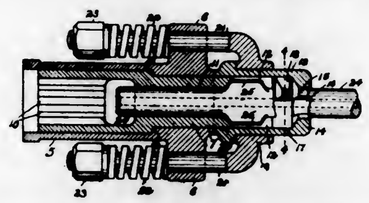
1,430,101. LAMP SUPPORT. WILL C. NEAHR, Denver, Colo., assignor to The Protective Signal Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Feb. 12, 1920. Serial No. 358,140. 6 Claims. (Cl. 240—44.)



1. An adjustable lamp support comprising a base having an opening and a slot at one side of the opening, a lamp-carrying member, and means for clamping the member in different positions on the base, comprising elements on opposite sides of said base, one of said elements extending over the opening and having a pivot slidable in the slot, said element carrying the lamp-carrying member.

1,430,102. TOOL-RETAINING MEANS. GUSTAVE M. NELL, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Feb. 14, 1920. Serial No. 358,843. 10 Claims. (Cl. 121—32.)

1. In tool retaining means, the combination with a head, of a chuck member rotatably mounted thereon and having a tool receiving socket and a recessed seat for the usual tool lug, and a retaining member located in front of the chuck member and having a tool receiving opening, and a slot for the passage of the lug thereof, said retaining member having an internal chamber provided with a stop adapted to be engaged by the lug of the tool when in said chamber and out of line with the slot.

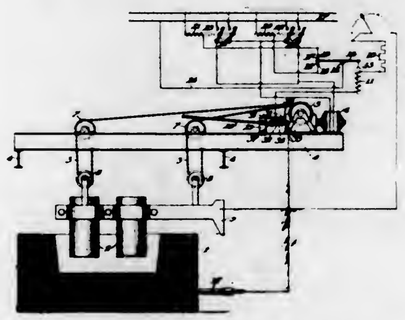


1,430,103. GASKET AND METHOD OF MAKING SAME. EMIL A. NELSON, Detroit, Mich., assignor, by mesne assignments, to Arthur H. Murray, Detroit, Mich. Filed July 19, 1918. Serial No. 245,738. 4 Claims. (Cl. 288—1.)



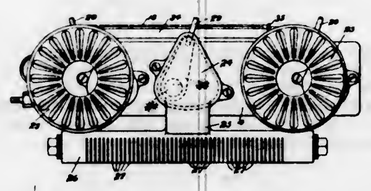
3. A gasket comprising a flat stiffening metallic body formed with openings and narrow portions between the openings, sheets of asbestos packing material applied to the upper and lower faces of the body with openings corresponding to the openings in the body to provide compressible faces for and coextensive with the faces of the metallic body, and a thin copper sheathing applied to and covering the upper and lower exposed surfaces of the packing with marginal portions of the sheathing turned into the openings in the body and packing and over the marginal edges of the body and packing to cover all exposed edges both within and without the openings of the gasket.

1,430,104. AUTOMATIC CONTROL OF ELECTRICAL FURNACES. THOMAS E. NIBLOCK, Great Falls, Mont. Filed Feb. 8, 1921. Serial No. 443,419. 8 Claims. (Cl. 2[illegible]—64.)



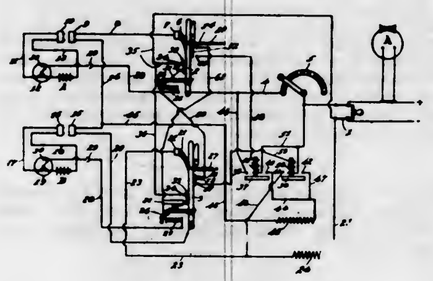
3. In a system for automatically controlling the movement of electrodes in an electric furnace, the combination with an electrode, means for movably suspending the electrode, means for raising and lowering the electrode, means responsive to electrical conditions in the furnace for controlling the movement of the electrode and means responsive to the tension in the line of suspension of the electrode for causing an alternate raising and lowering of the electrode when the downward movement of the electrode is obstructed.

1,430,105. KEROSENE BURNER. JOHN S. NOEL, Grand Rapids, Mich., assignor to Don Devendorf, Grand Rapids, Mich. Filed Sept. 10, 1919. Serial No. 322,951. 8 Claims. (Cl. 158—61.)



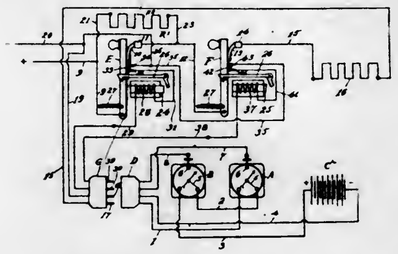
1. In a construction of the character described, a housing comprising parallel sides and parallel top and bottom, and ends, a horizontal partition in the housing dividing the same into upper and lower compartments, a vertical partition in the lower compartment dividing the same into two compartments, said vertical partition having an opening therein near one end of the housing and said horizontal partition having an opening near the opposite end of the housing at one side to connect one of the lower compartments with the upper compartment, and said bottom having an opening therein near the same end of the housing for entrance of air into the other of the lower compartments, a fuel inlet into the last mentioned compartment directly over the air inlet opening, means to heat the fuel before entrance into said compartment, and burners attached to the top of the housing to which mixed air and fuel in gaseous form may be carried from the upper and larger compartment, substantially as described.

1,430,106. MEANS FOR CHARGING STORAGE BATTERIES. CLARENCE E. OGDEN, Cincinnati, Ohio. Filed Feb. 18, 1920. Serial No. 359,737. 4 Claims. (Cl. 171—314.)



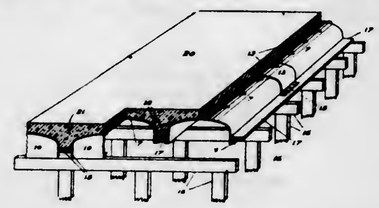
1. Means for charging storage batteries comprising in combination with a charging circuit, electrical connections for a plurality of storage batteries to be charged, said connections being arranged to be connected in series in said charging circuit, an independent switch for controlling the circuit through each of the batteries, a meter for gauging the charge to each battery, means whereby each of said meters is arranged to open the switch controlling the circuit through its battery, resistance, means whereby upon the opening of either of said switches, the circuit is closed through the remaining battery and suitable resistance, and means whereby when the final battery is fully charged, said charging circuit is opened.

1,430,107. MEANS FOR CHARGING STORAGE BATTERIES. CLARENCE E. OGDEN, Cincinnati, Ohio. Filed July 26, 1920. Serial No. 399,063. 4 Claims. (Cl. 171—314.)



1. Means for charging storage batteries comprising in combination with a charging circuit and resistance, two ampere hour meters, the first of said meters being set to indicate slow on discharge and correct on charge, means whereby during charge said first meter is arranged when at zero to introduce said resistance into the charging circuit, and means whereby the second meter is arranged on completion of charge to open the line circuit.

1,430,108. FORM FOR CONCRETE CONSTRUCTION. SYLVESTER J. OSWALD, Milwaukee, Wis. Filed June 2, 1919. Serial No. 301,242. 2 Claims. (Cl. 25—131.5.)



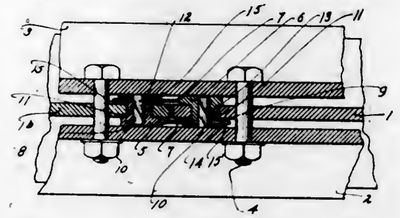
2. An apparatus for constructing concrete floors, comprising in combination a series of arched members each having a closed end arranged in longitudinal alinement with their adjacent ends spaced a slight distance apart, a hollow reenforcing rib adapted to resist strains in all directions formed on each longitudinal edge of said arched member, means for connecting said arched members to provide a continuous form and including a relatively short rigid arched bridge member adapted to have its ends overlap the adjacent ends of said first mentioned arched members to close the space between said ends, said bridge member having a laterally directed flange formed on each longitudinal edge thereof adapted to rest upon the reenforcing ribs of the adjacent first mentioned arched members, and means engageable with the ribs of said first mentioned arched members and confining the flanges of said second mentioned arched member therebetween and the adjacent rib to secure said last mentioned arched member in position.

,430,109. METHOD OF SEPARATING HYDROCARBON FROM ALUMINUM CHLORIDE. ERNEST V. OWEN, Chicago, Ill., assignor to The Hoover Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 21, 1922. Serial No. 530,991. 5 Claims. (Cl. 23—13.)

1. The process of separating heavy hydrocarbon from aluminum chloride, which consists in delivering alumi-

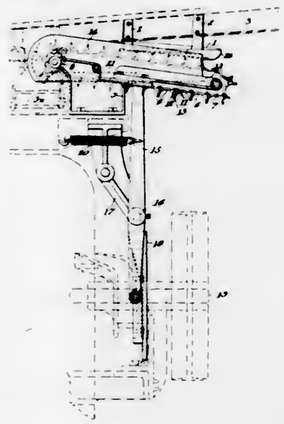
num chloride hydrocarbon to a bath of liquid material which is maintained at a temperature that is below the vaporizing point of the hydrocarbon and above the vaporizing point of aluminum chloride, thereby volatilizing the aluminum chloride, and then removing the latter in the form of vapor.

1,430,110. RAIL BOND. CHARLES A. PARKER, Haugan, Mont., assignor of one-half to Albert T. Farmer, Saltese, Mont. Filed May 9, 1921. Serial No. 468,107. 3 Claims. (Cl. 173—262.)



1. The combination with the contiguous perforated rail webs, of a pair of conductors each having a socket member, an expanding plug driven in each member and having one end projecting through said member, and a conductor blade integral with each of said members coacting with the plug of the other member.

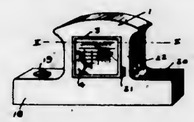
1,430,111. WASTE COLLECTOR FOR MATCH MACHINES. LUCIAN E. PARKER, Wadsworth, Ohio, assignor to The Ohio Match Company, Wadsworth, Ohio, a Corporation of Ohio. Filed Aug. 19, 1921. Serial No. 493,722. 10 Claims. (Cl. 226—7.)



1. A tray having a sloping bottom and adapted to be attached to and move with the feeding trough of a match box filling machine, to collect, straighten and clear away waste or stray matches, and means in communication with said tray to discharge such matches into match boxes.

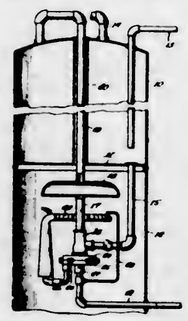
1,430,112. CALENDAR DEVICE. ALONZO N. PEFFLY, San Francisco, Calif. Filed Mar. 4, 1922. Serial No. 541,038. 2 Claims. (Cl. 40—116.)

1. A calendar device comprising an enclosing casing having an opening therein, a frame having a perforated front portion and two sides of spring material, said sides adapted to slide into said opening and frictionally engage opposite walls of said opening, a roller adapted to carry a calendar strip wound thereon, an idler roller, and a friction roller said idler and said friction roller spaced above



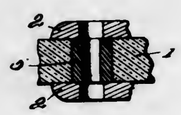
and below said perforated front, respectively, and between said sides, and connections through one of said sides to actuate the friction roller to advance the strip, and a glass plate covering said front perforation and having its lower edge exposed adjacent the friction roller, as and for the purpose set forth.

1,430,113. REGULATOR. WILLIAM P. POWERS, Los Angeles, Calif. Filed Apr. 10, 1920. Serial No. 372,897. 3 Claims. (Cl. 236—32.)



1. In a regulator, the combination of a casing having a passage for water, a thermostatic element having a portion projecting into said passage, said element including a flexible end wall in the form of a diaphragm, a second casing having gas inlet and outlet openings and providing a space within which the flexible wall of said thermostatic element is located, a valve adapted to cooperate with one of said openings, a resilient valve-carrying member adapted normally to maintain the valve away from its seat, and adjustable spring means interposed between said resilient valve-carrying member and said thermostatic element.

1,430,114. LENS MOUNT AND METHOD OF FORMING SAME. HERBERT C. REES, San Antonio, Tex. Filed Oct. 20, 1919. Serial No. 332,073. 16 Claims. (Cl. 88—42.)

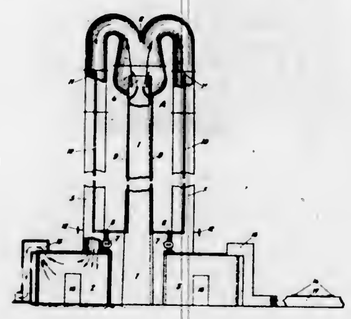


5. The method of forming a lens mount which is characterized by inserting a tube of hygroscopic material in a lens opening, cutting off the tube even with the surface of the lens to form a bushing, and inserting a strap securing element in said bushing.

1,430,115. PROCESS FOR RECOVERING FLAX FIBER. RALPH E. RINDFUSZ, Northampton, and VANDERVEER VOORHEES, Holyoke, Mass., assignors to American Writing Paper Company, Holyoke, Mass., a Corporation of New Jersey. Filed Nov. 15, 1919. Serial No. 338,299. 2 Claims. (Cl. 92—13.)

1. Process of preparing high-grade paper pulp from flax tow, comprising subjecting the tow to an alkaline cook under superatmospheric pressure to soften the shive material; removing the alkali and treating at substantially normal temperature with an acid solution comprising an oxy-acid of nitrogen; and completing the removal of ligneous shive material by a further alkaline treatment.

1,430,116. APPARATUS FOR CLEANING AND COLLECTING SMOKE FROM FOUNDRY CHIMNEYS. ALBERTO RODRIGUEZ, Santiago, Chile. Filed Dec. 14, 1920. Serial No. 430,809. 3 Claims. (Cl. 183—43.)



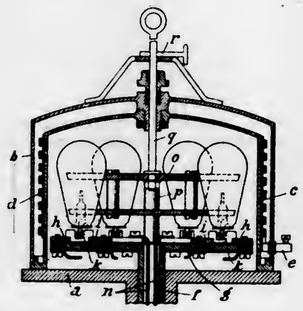
1. In combination with a furnace chimney, a smoke collector at the top thereof, a receiving chamber, a pipe leading from said collector to said chamber, means to create draft upwardly through the chimney and collector and downwardly through said pipe, a storage chamber, a pipe leading to said storage chamber from said receiving chamber, a pipe leading from said storage chamber, and traps in said receiving and storage chambers.

1,430,117. STORE-FRONT CONSTRUCTION. VERNON ROSS and ERRETT S. RHOADS, Kansas City, Mo., assignors to Ross Rhoads Company, Kansas City, Mo., a Corporation of Missouri. Filed July 26, 1920. Serial No. 399,059. 5 Claims. (Cl. 20—56.4.)



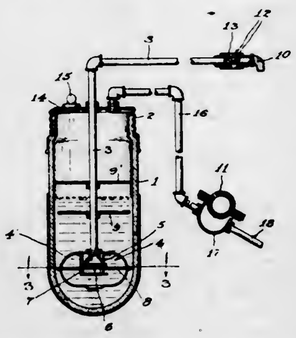
1. A store front construction comprising a window casing formed with a ledge and a clamping face, a fixed anchoring rib on the ledge, extending at an angle to said clamping face, a moulding strip fitting against the ledge with one edge in proximity to the outer face of the glass, and a clamping element engaging the rib and the outer face of the glass to hold the latter unyieldingly against movement with respect to said clamping face of the casing; said clamping element engaging and cooperating with the said rib for glass clamping purposes.

1,430,118. PROCESS AND APPARATUS FOR SEALING LAMPS. ROBERT LE ROSSIGNOL, Harrow, England, assignor to Patent-Treuhand-Gesellschaft für Elektrische Glühlampen mit beschrankter Haftung, Berlin, Germany, a Corporation of Germany. Filed July 9, 1920. Serial No. 395,028. 8 Claims. (Cl. 176—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



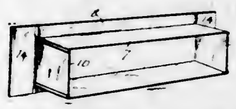
1. The process of sealing electrical glow lamps provided with a short open exhaust stem which comprises heating the end of the stem of the lamp thus supported, in an exhausted environment whereby the bulb is maintained as a vessel exhausted through its stem to such a temperature that the stem end becomes liquid, and then removing said end from the heating zone to cause the same to solidify as a seal.

1,430,119. AIR MOISTENER. EDWIN SAVERY, San Francisco, Calif., assignor to Boesch Lamp Company, San Francisco, Calif., a Corporation of California. Filed May 1, 1920. Serial No. 378,236. 1 Claim. (Cl. 261—121.)



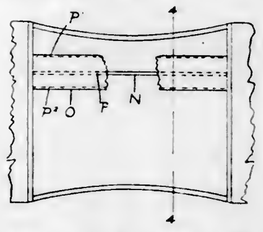
In an attachment for internal combustion motors, the combination with a liquid holding container, a cover for detachably securing thereto to close the same, an air inlet pipe carried by and extended through the cover for projection into the container, a discharge nozzle at the lower end thereof, a float valve for normally closing the same, a cage carried by said pipe for retaining the valve, a plurality of mixing devices carried by the pipe, a vapor outlet leading from the container through said cover, said cover and elements carried thereby adapted for removal from the container as a unit.

1,430,120. METHOD OF MAKING THE CONNECTIONS FOR VENTILATING BOX BASES. CLARENCE C. SHIPP, Indianapolis, Ind. Filed Oct. 3, 1921. Serial No. 505,119. 3 Claims. (Cl. 113—116.)



1. The method of making a ventilator box with flanges and a top, which comprises the steps of trimming to size a plurality of separate pieces, bending them at right angles on the line between the top and flange, bending up lock joints in the edges of the various pieces and seaming the lock joints to form a top with four angles and a continuous flange.

1,430,121. BELT CORSET. JOSEPH SIEGEL, Detroit, Mich., assignor to Frolaset Corset Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 26, 1920. Serial No. 369,055. 2 Claims. (Cl. 2—188.)



1. An undergarment, comprising elastic side portions for engaging the waist of the wearer, said portions being respectively slotted along the waist line to facilitate flaring of said portion to conform with the waist curvature, and a non-elastic member coextensive with said slot connecting the portions marginal to said slot, and concealing the latter.

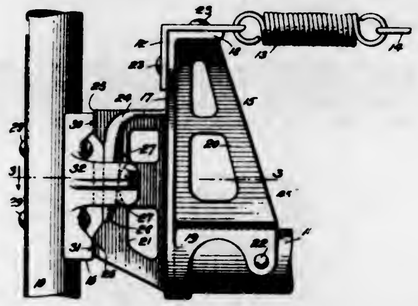
1,430,122. STEERING-GEAR ANTIRATTLER. ELMER L. SLOAN, Joplin, Mo. Filed Sept. 16, 1921. Serial No. 501,150. 2 Claims. (Cl. 74—17.)



1. Means for preventing rattling at the point of connection of the steering spindle arm with the steering arm connecting rod yoke of a motor vehicle comprising a spring member formed from a single length of resilient wire coiled intermediate its ends to define a relatively long arm engageable against the upper side of the lower portion of the connecting rod yoke, said coil being disposed against one edge of the steering spindle arm, said wire member being bent to define an arm extending from said coil diagonally across the under side of the steering arm and further bent to define a second inclined arm extending diagonally across the top of the steering arm and terminating in a hook engaging upon the edge thereof.

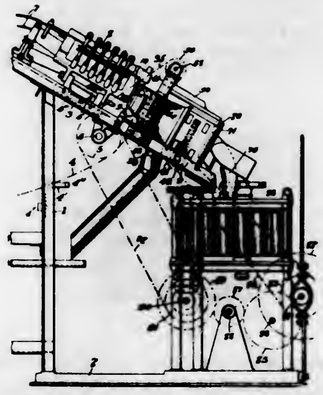
1,430,123. CORNER FASTENING FOR BEDSTEADS. ROBERT R. SMITH, Brooklyn, N. Y. Filed Feb. 2, 1920. Serial No. 355,879. 3 Claims. (Cl. 5—55.)

1. In a bedstead, a corner-post and a main frame, in combination, corner-fastening members therefor and respectively secured thereto, the member secured to the main frame having a body part, a vertical face-plate thereon and a central vertical plate web projecting outwardly from said face-plate and formed on its opposite exposed side faces and at the outer vertical edge thereof with vertically extending and outwardly laterally projecting corresponding ribs whose lower inner edge surfaces incline downwardly and outwardly and constitute wedges and which plate web has its upper and lower ends projecting outwardly beyond said ribs to form upper and lower abutment edges located above and below said wedges and on



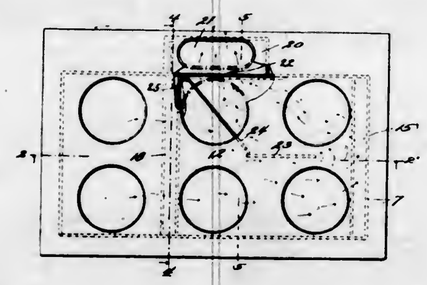
a vertical plane outwardly from and centrally between the vertical planes of said ribs, said abutment edges being spaced from and independent of each other and leaving said side ribs freely exposed, and the member secured to the corner-post having a pair of spaced apart projecting parallel arms between which said web may be passed and which arms have on their outer ends inwardly projecting facing lugs adapted to receive behind them and enter into binding engagement with said rib wedges, and suitable abutment surfaces being present to receive said upper and lower projecting abutments on the web of the frame member.

1,430,124. MACHINE FOR TREATING FRUIT. ALBERT ERNEST STANLEY, Honolulu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a Corporation of Hawaii. Filed May 8, 1922. Serial No. 559,389. 18 Claims. (Cl. 146—11.)



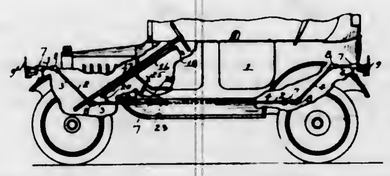
1. A machine for treating fruit, comprising a rotary sizing head, and means surrounding the head for trimming the meat from the shells.

1,430,125. COOKING STOVE. LINN B. SULLIVAN, Decatur, Ga. Filed Sept. 1, 1920. Serial No. 407,440. 3 Claims. (Cl. 126—1.)



1. A cooking stove or range having a combustion chamber, an oven, a top flue extending between the top of the oven and the stove top from the combustion chamber and having at its rear edge a direct outlet to the chimney exit and also communicating at its end with flues extending around the oven, a longitudinal flue strip fixed in said top flue, and a damper pivoted at one end at a point adjacent to the rear edge of the top flue and adapted to swing into a position parallel with the rear edge of the top flue to cover and close said direct outlet and to swing into a diagonal position across the rear portion of said top flue with its free end in cooperative relation with said flue strip.

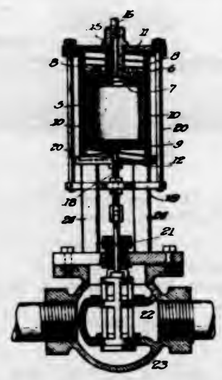
1,430,126. DIRECTION-SIGNALING DEVICE FOR VEHICLES. CLAYTON VAN DYKE, Grand Rapids, Mich. Filed Apr. 6, 1922. Serial No. 549,987. 5 Claims. (Cl. 116—47.)



1. In a device of the character described; a rod having independently turnable and slidable movements; a signaling member turnable therewith and having also a swinging movement relatively thereto, and carrying a plurality of signals; said member being swingably movable by the rod in its sliding movement to display one of said signals and turnable with the rod in its turning movement to display another of said signals in a plurality of positions.

1,430,127. FLUID-PRESSURE CONTROLLER. VINCENT V. VEENSCHOTEN, Erie, Pa., assignor to Northern Equipment Company, Erie, Pa., a Corporation of Pennsylvania. Filed July 29, 1918. Serial No. 247,113. 4 Claims. (Cl. 236—99.)

4. A controller comprising an elastic vessel having one end fixed and the other end free, a plate positioned adjacent the fixed end of said vessel and immovably connected with the free end of said vessel a second plate positioned adjacent the free end of said vessel and immovably connected with the fixed end of said vessel, a compression spring mounted between said plates and encir-



cling said vessel, operating means connected to the free end of said vessel, and means for passing a fluid under pressure into said vessel.

1,430,128. CONSTRUCTION OF AEROPLANES. RODOLFO VERDUZIO, Rome, Italy. Filed Oct. 16, 1920. Serial No. 417,436. 2 Claims. (Cl. 244—12.)



1. In an aeroplane, in combination with the fuselage and a wing brace structure including an upper and a lower wing plane, a pair of upwardly diverging struts on each side of the fuselage the lower ends of which are attached to said fuselage at a point intermediate said two planes and whose upper ends are attached to said upper plane.

1,430,129. GROMMET. JOHN VODICKA, Chicago, Ill., assignor to Cinch Fastener Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 8, 1920. Serial No. 422,637. 1 Claim. (Cl. 24—141.)

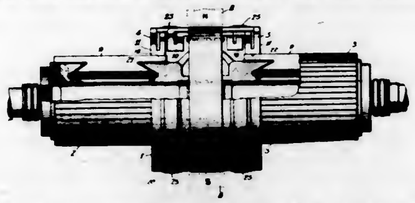


1. A grommet comprising a member having an approximately cylindrical, tubular neck, a dished portion and an outer raised rim forming an abrupt angle with the dished portion, and a second member comprising a concavo-convex portion, perforated to fit said neck, and having an annular shoulder adapted to be received within the rim of the first said member whereby the second member may be collapsed to expand the shoulder thereof radially to grip a fabric between said shoulder and the rim on the first said member.

1,430,130. ARMATURE WINDING. WALTER J. WARDER, Jr., Chicago, Ill.; Russell Warder Limbach, administrator of said Walter J. Warder, deceased. Filed Jan. 17, 1918. Serial No. 212,219. 2 Claims. (Cl. 171—206.)

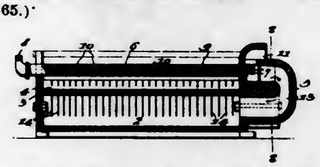
1. An armature comprising two double layer windings with involute end connections adapted for connection to commutators upon opposite sides thereof, the coils of one

winding having their connecting portions disposed in alternate slots relative to the slots housing the other winding



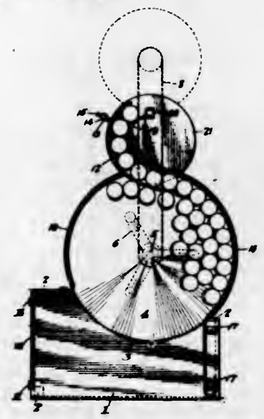
and the involute end connecting portions of said windings being disposed in different planes.

1,430,131. DOMESTIC OIL BURNER. CHARLES WARWICK, Vancouver, British Columbia, Canada, assignor to William R. Richardson, Vancouver, Canada. Filed May 23, 1921. Serial No. 471,870. 1 Claim. (Cl. 158—65.)



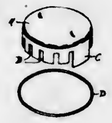
An oil fuel burner, comprising in combination, an elongated chamber apertured along its upper side as a burner, a vaporizing tube disposed medially along the upper side of the burner chamber and parallel therewith, said tube filled with a permeable heat conducting material, means for delivering oil fuel under pressure to one end of the vaporizing tube, means for delivering the vaporized oil through a fine aperture in the other end of the tube, a mixing chamber secured to the end of the burner chamber into which mixing chamber the end of the vaporizing tube is inserted, a duct delivering from adjacent the vaporizing tube end into the burner chamber, an air duct delivering from above into the mixing chamber adjacent the vaporizing tube end, and an air duct on each side opposite delivering into the mixing chamber adjacent the vaporizing tube end.

1,430,132. CAN-FEEDING APPARATUS. MARTIN E. WILBERTS, Honolulu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii. Filed Dec. 28, 1921. Serial No. 525,355. 3 Claims. (Cl. 198—22.)



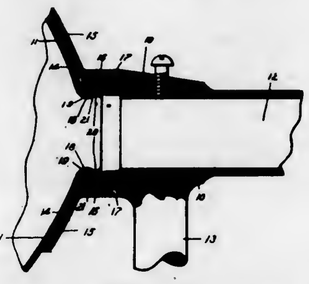
1. A feeding device for cans comprising a table having a flat conical top surface rotatable in a horizontal plane, stationary guard rails near the periphery thereof, and a guide rail cooperating with one guard rail to form a discharge for a continuous single row of contiguous cans.

1,430,133. BOTTLE CAP. GEORGE A. WILLIAMS, Decatur, Ill. Filed Mar. 4, 1920. Serial No. 363,107. 2 Claims. (Cl. 215—45.)



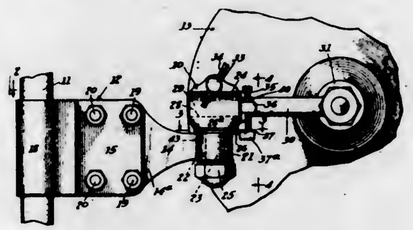
1. A bottle cap comprising a slotted skirt and a divided spring ring surrounding said skirt, the lower edges of said slotted portions being rolled about said ring, one of said portions being of greater dimensions than the other portion and rolled about and enveloping the meeting ends of the ring, said larger rolled portion projecting laterally from the skirt to provide a member for the application of pressure.

1,430,134. SPOTLIGHT. RALPH E. WILLIAMS, Los Angeles, Calif. Filed Nov. 26, 1919. Serial No. 340,919. 3 Claims. (Cl. 240—41.)



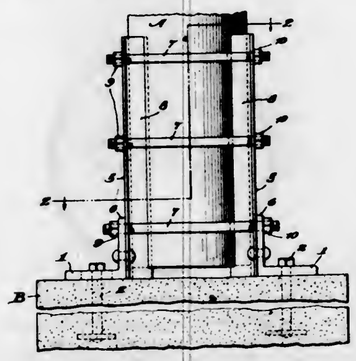
1. In a lamp, a mounting member having a grooved bore, and a reflector attached to the mounting member, the reflector having a neck swedged into the grooved portion of the bore of the mounting member.

1,430,135. REGULATING BRACKET FOR MOVABLE LIGHTS. RALPH E. WILLIAMS, Los Angeles, Calif. Filed Apr. 7, 1920. Serial No. 372,042. 5 Claims. (Cl. 240—7.)



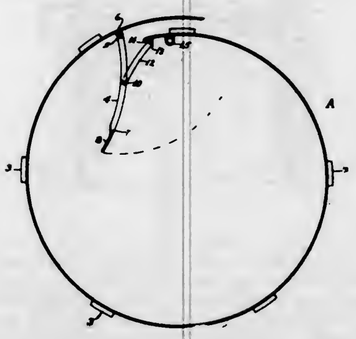
1. A lamp mounting comprising a stationary member forming a clamp body and a socket, a socket member having a trunnion rotatably carried in the socket formed by the stationary member, a lamp carrying member rotatably carried in the socket member, a pojection formed on the lamp carrying member, a member carried on the trunnion of the socket member and between the socket member and the stationary member, a pin extending from the stationary member to engage the member carried on the trunnion to hold it against movement relative to the stationary member, and a projection on the member carried on the trunnion adapted to co-operate with the projection on the lamp carrying member to limit the rotary movement of the lamp carrying member in the socket.

1,430,136. POLE MOUNTING. ROLLAND G. WILLIAMS, Bridgeport, Conn. Filed Jan. 5, 1922. Serial No. 527,179. 4 Claims. (Cl. 72—84.)



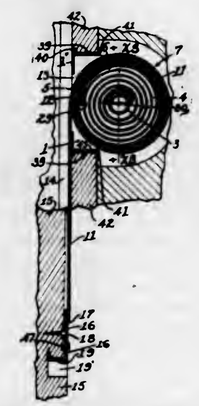
4. In a pole mounting, a base, supports thereon, opposed pole holding members seated at their lower ends on the base and engaged with said supports and having means to bite into the pole to hold the latter spaced above the upper face of the base, and means to secure the members to the pole.

1,430,137. LOCKING ATTACHMENT FOR SPARE-TIRE HOLDERS. WEAVER WILSON and SAM PRICE, Wellington, Kans. Filed Feb. 4, 1921. Serial No. 442,445. 2 Claims. (Cl. 224—29.)



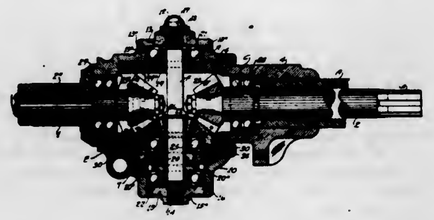
1. In combination, a solid ring-like tire holder as attached to the rear portion of an automobile, a tire casing arranged on a rim, said rim being arranged in position upon and surrounding said tire holder; a locking attachment comprising a split metallic band of lesser diameter than said tire holder arranged within and adjacent to said holder, lug elements rigidly arranged upon the periphery of said attachment with the flanges thereof extending upon the opposite sides of said tire holder; and means for contracting and expanding said split ring from or towards said tire holder, comprising a lever pivotally attached to the outer inner portion of said split ring, said lever having an end portion fashioned as a hasp, a link pivotally connecting to said lever and to the inner portion of the opposite end of said split ring, an eye rigidly positioned near the inner end portion of said split ring beyond the link and adapted to enter said hasp when the said split ring is expanded and means for securing said eye and hasp in a locking engagement.

1,430,138. SASH BALANCE. WILLIAM E. WREAD, Los Angeles, Calif., assignor to Armand Y. Belverge, Los Angeles, Calif. Filed Jan. 30, 1922. Serial No. 532,573. 9 Claims. (Cl. 16—198.)



2. A sash balance having a housing composed of a stamping bent to form side members, a fixed axle, a pulley comprising side members secured together to form a chamber and being adapted to revolve on said axle, flexible means connected to and wound upon said pulley and adapted at one end to be connected to a sash to be balanced, and means in said chamber adapted to revolve said pulley to take up the flexible connection.

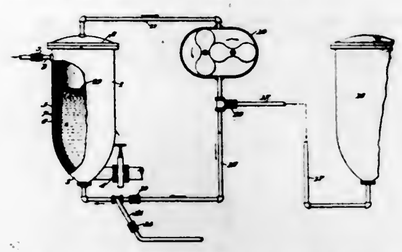
1,430,139. DRIVING MECHANISM FOR VEHICLES. CLIFFORD H. YOUNG, St. Louis, Mo. Filed Mar. 21, 1921. Serial No. 454,125. 6 Claims. (Cl. 180—44.)



1. A driving mechanism for vehicles, comprising an axle housing provided at one end with a gear case, an oscillating wheel carrying member having portions that embrace parts of said gear case, a king pin consisting of a one piece spindle that extends vertically through said gear case and wheel carrying member, a thrust cap resting upon the top wall of said wheel carrying member and connected by screw threads to said king pin, a

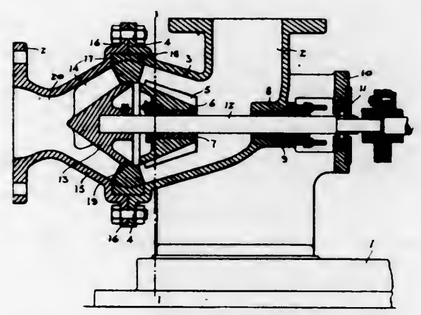
threaded member adjustably mounted in the underside of said wheel carrying member and connected to said king pin by screw threads, and friction reducing bearings arranged in concentric relation with said king pin and interposed between the gear case and said thrust cap and adjustably mounted member.

1,430,140. PROCESS OF AND APPARATUS FOR PRECIPITATING COPPER FROM SOLUTIONS. FRANCIS S. ADAMS, Anaconda, Mont. Filed July 20, 1920. Serial No. 397,655. 7 Claims. (Cl. 75—18.)



1. In the process of precipitating copper from hot solutions by sulfur dioxide, the step which consists in repeatedly passing sulfur dioxide gas through the solution.

1,430,141. ACCELERATING PUMP FOR WATER-HEATING SYSTEMS. HARRY H. ANGUS, Toronto, Ontario, Canada, assignor to The Atlas Engineering & Machine Company, Limited, Toronto, Canada. Filed Apr. 7, 1920. Serial No. 372,078. 2 Claims. (Cl. 253—179.)



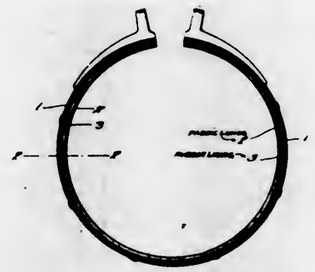
1. An accelerating pump for water heating systems, comprising a casing convergent at both ends, a rotor of conical shape centrally disposed in the intake end of the casing and having radial impeller vanes, a plurality of stationary radial vanes arranged at the inner end of the impeller to engage the water flowing from the impeller vanes, a central bearing supported within said casing back of the impeller, a shaft journalled in said bearing and supporting said impeller, and a journal bearing extending through the wall of the pump casing in alignment with said forward shaft bearing.

1,430,142. INSULATING AND ANTICORROSIVE PAINT AND METHOD OF MAKING SAME. CHARLES APPLETON and FORBES MCREA, Surf Inlet, British Columbia, Canada. Filed May 10, 1922. Serial No. 559,881. 5 Claims. (Cl. 134—52.)

2. A composition to be used as a paint consisting of the following ingredients, by weight: 5% of pine oil, 20% of beech wood creosote and 75% of coal tar mixed together.

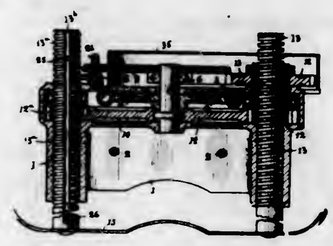
5. A process for producing paint consisting in thoroughly mixing pine oil and beech wood creosote, then allowing the solution to stand for about 30 minutes until well assimilated, then adding coal tar and allowing the resulting fumes to pass off and then mixing all the ingredients by agitation.

1,430,143. BRAKE BAND LINING FOR AUTOMOBILES, ETC. JOSIE C. BAREFOOT and AARON A. KNEE, Charlotte, N. C., assignors to Velvet Action Brake Lining Company, Mecklenburg County, N. C., a Corporation. Filed May 11, 1921. Serial No. 468,569. 3 Claims. (Cl. 188—259.)



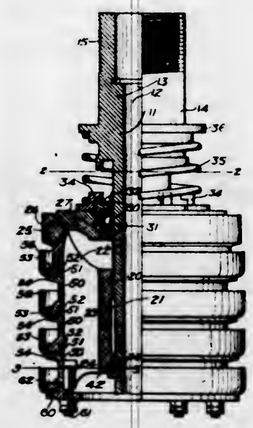
3. As a new article of manufacture, a brake band lining for attachment to a brake band or clutch element, said lining comprising a heavy fabric band member, and a resilient lining member of resilient substance, said resilient lining member being vulcanized to the inner surface of the fabric band element to which the lining is to be applied, and being of uniform thickness throughout.

1,430,144. JACK. HENRY BARON, Mayenne, France. Filed Sept. 21, 1920. Serial No. 411,840. 3 Claims. (Cl. 254—86.)



1. An automatic lifting device or jack for motor vehicles, characterized in that an endless screw controlled by the motor is in engagement with a tooth-wheel mounted on a central spindle which carries a small pinion in engagement with another which, in turn, engages with a third, these latter two being loose in a disconnecting head, the movement of which makes it possible to actuate in one direction or the other two lifting screws each controlled by a pinion that forms a nut and is firmly connected with a pinion which is operated by the one or the other pinion of the uncoupling and reversing head, the two nut-pinions being of equal diameter and each engaging with a tooth-wheel mounted loosely on the central spindle, so that the two lifting screws move together and at the same speed.

1,430,145. BUCKET FOR DEEP-WELL PUMPS. ARCHILLES A. BARTON, Glendale, Calif. Filed Nov. 25, 1919. Serial No. 340,936. 3 Claims. (Cl. 103—68.)



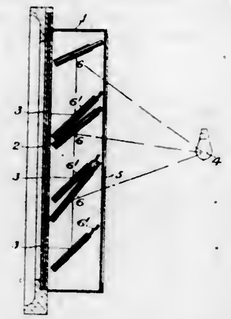
3. In a pump, the combination of: a structure; a series of rings slidably mounted on said structure, each ring having a lip fitting inside an adjacent ring; and cup leathers on said lips between said rings.

1,430,146. SAND TRAP FOR OIL-WELL PUMPS. SAMUEL W. BATEMAN, El Dorado, Ark. Filed Apr. 7, 1922. Serial No. 550,553. 3 Claims. (Cl. 103—220.)



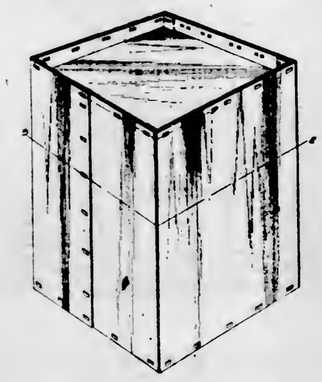
1. A sand separator for a pump structure comprising the combination with separated section of the pump barrel, of connected pipe sections between the sections of said barrel, a depending frusto-conical member within said connected pipe sections, a tube extended upwardly from said depending frusto-conical member, a valve mounted on said tube, a funnel member mounted in said connected pipe sections below said depending frusto-conical member, a sand return pipe depending from said funnel member, and perforated pipe sections surrounding said depending sand return pipe.

1,430,147. ILLUMINATED SIGN OR ADVERTISEMENT. WEBSTER JOHN BEVILLE, London, England. Filed May 17, 1921. Serial No. 470,284. 3 Claims. (Cl. 40—132.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. An illuminated sign, comprising a source of light, a casing having an illuminable sign-bearing face, a fluted reflecting member adapted to receive the light from said source, and a second fluted reflecting member adapted to receive said light from said first reflecting member and reflect it on to said sign-bearing face, the flutings of said first reflecting member extending transversely of the member and the flutings of said second reflecting member extending at right-angles thereto.

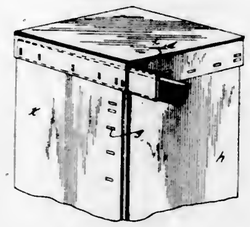
1,430,148. METHOD OF SEALING FIBER SHIPPING CASES. HERBERT R. BLISS, Niagara Falls, N. Y. Filed July 3, 1920. Serial No. 393,825. 2 Claims. (Cl. 93—2.)



2. The method of constructing and sealing a recessed end fiber shipping case, which comprises folding a rectangular blank to form the bottom and two side walls and the overlapping top flaps, slotting a pair of rectangular end blanks at the corners and scoring each with a single rectangular scoring figure parallel with the four edges to form with the said slots four flanges, the setting of the end blanks the complete depth of the flanges into the folded main body blank and causing the free edges of the flanges to register with the edges at the end of the main body blank, the running of a line of stitches through the flanges and the ends of the bottom and side walls, and sealing the case by taking a continuous H run of stitches on the overlapping cover flaps in which the center bar of

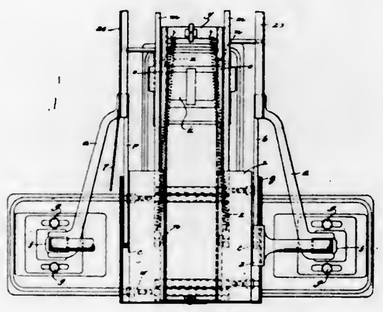
the H runs along parallel with and near the meeting edges of the flaps and the two uprights of the H run along the ends of the flaps and through the flanges of the end blanks.

1,430,149. SHIPPING CASE. HERBERT R. BLISS, Niagara Falls, N. Y. Filed Nov. 15, 1920. Serial No. 424,060. 6 Claims. (Cl. 229—43.)



3. In a shipping case constructed of fiber or equivalent material, a body portion having side walls united to form a container and provided with a plurality of slots at the corners at the sealing end of the body, and a flanged cover fitting over the sealing end of the body, said flanges being secured to the body by metallic fasteners driven into the flanges from the outside and clinched on the inside of the body by an anvil withdrawable through the slots at the corners.

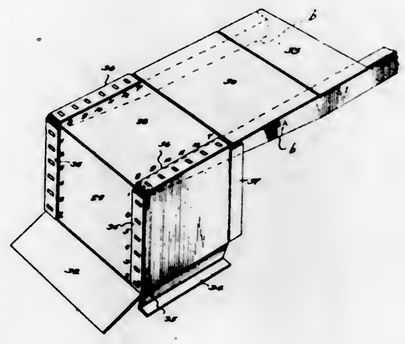
1,430,150. WIRE-STITCHING MACHINE. HERBERT R. BLISS, Niagara Falls, N. Y. Filed Sept. 24, 1921. Serial No. 502,966. 10 Claims. (Cl. 1—11.)



1. In a machine for the purpose specified, the combination of a pair of stitching heads, a pair of anvils supported below the stitching heads, the anvils and stitching heads being spaced apart to accommodate themselves to the length of a shipping case, means for synchronously operating the drivers of the stitching heads, a reciprocating table on which the work is carried, and means yieldingly tending to urge the sliding table forward.

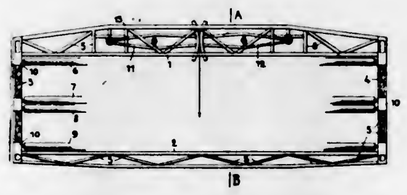
1,430,151. METHOD OF CONSTRUCTING FIBER SHIPPING CASES. HERBERT R. BLISS, Niagara Falls, N. Y. Filed Sept. 24, 1921. Serial No. 502,967. 7 Claims. (Cl. 93—42.)

1. The method of constructing a fiber shipping case out of a scored body blank and end blanks with flaps, which consists in holding the end blanks so that each end blank has one flap overlapping the opposite ends of the same wall of the body blank, simultaneously stitching such flaps to the wall of the body blank, second, folding the body blank and end blanks to bring another pair of flaps of the end blanks in overlapped relation at the opposite end of the succeeding wall of the scored body blank and



simultaneously stitching said two flaps to such wall, and third, folding the body blank and the end blanks to bring a third pair of flaps of the end walls in overlapped relation to the third succeeding wall of the body blank and simultaneously stitching the said pair of flaps to such third wall of the body blank.

1,430,152. FABRIC FRAME FOR SEVERAL-NEEDLE EMBROIDERING MACHINES. MAX RICHARD BRETSCHNEIDER, Plauen, Germany. Filed Sept. 22, 1921. Serial No. 502,490. 1 Claim. (Cl. 112—90.)

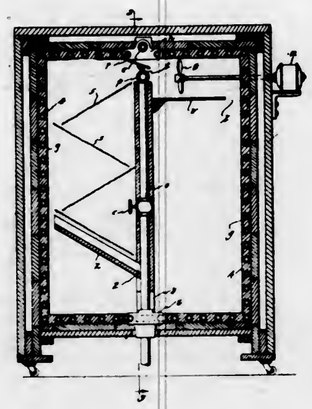


In several-needle embroidery machines a fabric frame composed of girders consisting of pipe parts of oval section, joined by means of welding, the long axis of the oval section of each of said pipe-parts being arranged transversely to the plane of said frame, substantially as described.

1,430,153. REFRIGERATING APPARATUS. LLOYD G. COPEMAN, Flint, Mich., assignor to Edwin W. Atwood, Flint, Mich. Filed July 18, 1921. Serial No. 485,411. 7 Claims. (Cl. 62—6.)

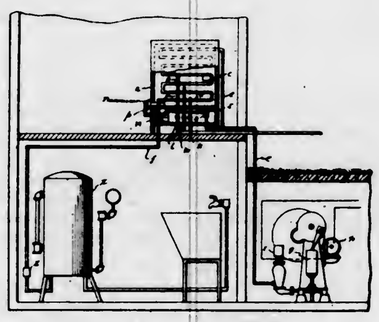
1. In refrigerating apparatus, the combination of a box provided with a cooling chamber, a plurality of coils for circulating water through the walls of said box and having a connection with the service line to cause circulation

through said coils when water is drawn for service purposes, and means for wasting water drawn through said



coils in said box through a spray delivered into said cooling chamber, substantially as described.

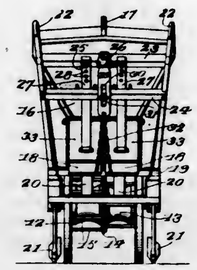
1,430,154. REFRIGERATING APPARATUS. LLOYD G. COPEMAN, Flint, Mich., assignor to Edwin W. Atwood, Flint, Mich. Filed July 18, 1921. Serial No. 485,412. 8 Claims. (Cl. 62—6.)



8. In refrigerating apparatus, the combination of a box arranged to hold water, a plurality of coils for circulating water through said box, means for supplying cold water to said coils, a plurality of controllable outlets for maintaining a body of water at a selectable level in the bottom of said box, and a controllable waste for wasting water derived from said supplying means in the bottom of said box.

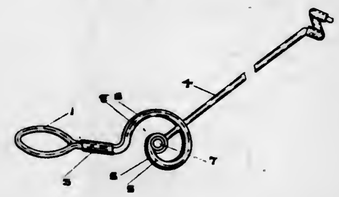
1,430,155. FERTILIZER DISTRIBUTOR. WILLIE C. CAGLE, Hemingway, S. C. Filed Oct. 17, 1921. Serial No. 508,158. 1 Claim. (Cl. 111—76.)

A fertilizer distributor comprising a frame having upwardly and rearwardly extending handles, cross members between the handles, a hopper on the frame, pivoted doors in the hopper, pins carried by one of the cross members, bars pivotally connected to the doors and slidable between the cross members, said bars having openings for reception of the pins and being resilient to maintain engagement with the pins, a second slidable bar mounted on the cross



members, flexible elements connected to the second bar, pivoted bottoms in the hopper and connected with the flexible elements.

1,430,156. LAMP-SHADE-TILTING DEVICE. ARCHIBALD STANNARD CUBITT, London, England. Filed Dec. 27, 1919. Serial No. 347,689. 7 Claims. (Cl. 240—88.)



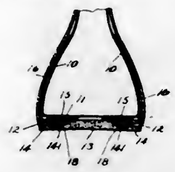
1. The combination of a socket holder having a resilient member terminating in a pivot bearing, and a conductor engaging bar pivoted in said bearing and frictionally engaging the resilient member at points remote from the bearing.

1,430,157. METHOD OF MAKING TURN SHOES. MILTON L. DODGE, Newburyport, Mass. Filed Dec. 22, 1919, Serial No. 346,543. Renewed Aug. 15, 1922. Serial No. 582,069. 6 Claims. (Cl. 12—142.)



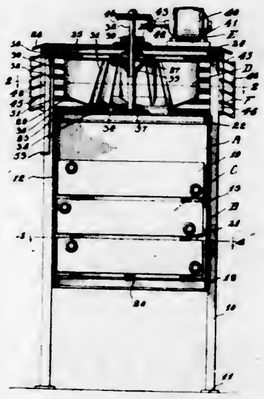
1. The method of making a turned shoe, which consists of taking a blank of flexible material treated with a stiffening agent adapted to be softened, shaping it into approximately the shape desired, locating the same in the toe of the shoe, softening the stiffening agent, shaping the box upon a last of the desired shape inserted into the shoe, and allowing the box to harden and then withdrawing the last.

1,430,158. COUNTER STIFFENER. MILTON L. DODGE, Newburyport, Mass. Filed May 25, 1918, Serial No. 236,497. Renewed Aug. 15, 1922. Serial No. 582,070. 3 Claims. (Cl. 36—68.)



1. As a new article of manufacture, a molded counter stiffener, comprising a side wall, and an inwardly-projecting heel-seat flange integral therewith, the material of the flange adjacent said wall being depressed to form a downwardly-projecting rib.
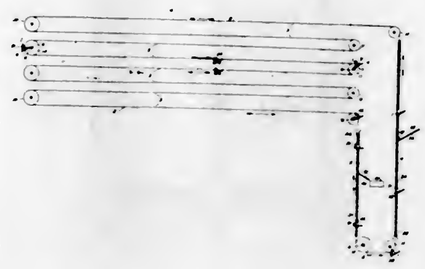
1,430,159. HEATING APPARATUS. WILLIAM F. DOERFLING, Galt, Ontario, Canada. Filed Apr. 4, 1921. Serial No. 458,580. 8 Claims. (Cl. 257—137.)



1. In a heating or cooling apparatus, a casing, a partition disposed adjacent to the upper end of the casing having an axial opening therein a temperature changing means disposed within the casing adjacent to one end thereof, a vertically disposed fan wheel arranged in the casing on the opposite side of the partition from the temperature changing means to draw the air from around said temperature changing means to discharge the same tangentially to the periphery of the fan wheel, an annular flange formed on the partition wall around the opening in the partition, and a flange of annular configuration formed on the fan wheel arranged to engage the first mentioned flange.

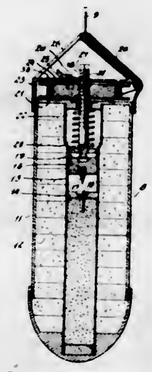
1,430,160. APPARATUS FOR COOLING BREAD AND FOR SIMILAR OPERATIONS. GUSTAV BERNHARD EGGERT, Saginaw, Mich., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich., a Corporation of Michigan. Filed Dec. 20, 1921. Serial No. 523,692. 20 Claims. (Cl. 198—157.)

1. In an apparatus of the kind described, in combination a pair of parallel endless chains arranged in zigzag fashion, a plurality of trays carrying the articles through the apparatus, each tray consisting of a light and wide front part forming the platform, on which these articles rest, and a narrow back part supporting the front part and so heavy and so arranged in regard to the latter as to place the center of gravity of the tray considerably nearer to the end of its back part than to that of its front part, short shafts revolubly mounted in the said chains, vertically to their course and fixed, one to each side of each of the said trays at such points above their center of gravity that, when in equilibrium, the said trays are in an inclined position frontpart upwards, the distance of the axis, round which the said trays turn, from the end of their front-



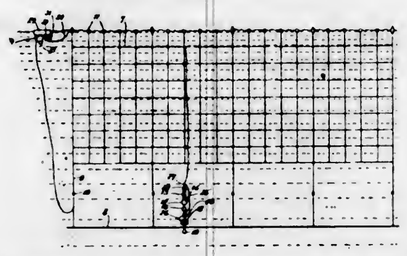
part being greater than that from the end of their backpart, sprocket wheels on which the said chains run, and shafts having the said sprocket wheels affixed thereto and revolubly mounted in stationary supports, those of the said sprocket wheels situated at the points, where the frontparts of the said trays moving round the same face the said shafts, having in proportion to the difference of the above distances larger diameters than those situated at the points, where their barkparts face the same.

1,430,161. MINE. GIOVANNI EMANUELE ELIA, New York, N. Y. Filed Feb. 21, 1917. Serial No. 149,978. 3 Claims. (Cl. 102—3.)



2. The combination of a mine which sinks when released in the water, a buoy, a flexible connection from the buoy to the mine, a reel in the mine with which the flexible connection cooperates, a threaded member which is moved axially by the rotation of the reel, a firing mechanism for the mine controlled by the axial movement of the threaded member, and means for adjusting the threaded member and the reel relatively to establish any one of a plurality of relations between them so as to regulate the depth at which the mine will be exploded; substantially as described.

1,430,162. APPARATUS FOR DETECTING AND INDICATING THE PRESENCE OF SUBMARINE BOATS. GIOVANNI EMANUELE ELIA, New York, N. Y. Filed June 26, 1917. Serial No. 177,039. 8 Claims. (Cl. 114—240.)



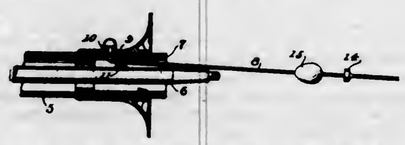
1. Apparatus for detecting and indicating the presence of submarine boats comprising the combination of a plurality of net sections adapted to be submerged in the sea to constitute a net barrier, a series cable submerged in the sea below the net sections, independent connections from each net section to the series cable each having a weakened portion therein, a plurality of bouyant automatic signalling devices, one for each net section, each connected to the series cable so as to lie between that cable and the lower edge of the overlying net section and intermediate the ends of that net section and means operated automatically when any net section is engaged and carried away by a submarine boat for releasing the corresponding bouyant automatic signalling device to permit that device to rise to the surface and transmit its signal; substantially as described.

1,430,163. PROCESS FOR IMPARTING TRANSPARENT EFFECTS TO COTTON. HEINRICH FORSTER, Bruggen, Switzerland, assignor of one-half to Conrad Forster, Dedham, Mass. Filed Sept. 21, 1920. Serial No. 411,849. 8 Claims. (Cl. 8—20.)

1. The process of imparting transparent effects to cotton which consists in subjecting the cotton to treatment with successive parchmentizing reagents under different conditions of operation and thereafter mercerising the cotton.

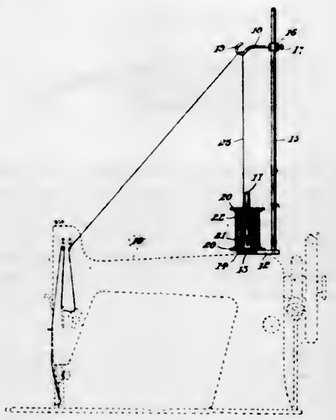
6. The process of imparting transparent effects to cotton which consists in subjecting the cotton to treatment first with sulphuric acid below 50½° Baumé, then with sulphuric acid above 50½° Baumé and then with concentrated caustic alkali.

1,430,164. BEARING-SLEEVE EXTRACTOR. FRANK C. HANEY, Powell, Wyo. Filed Aug. 22, 1921. Serial No. 494,185. 1 Claim. (Cl. 29—88.2.)



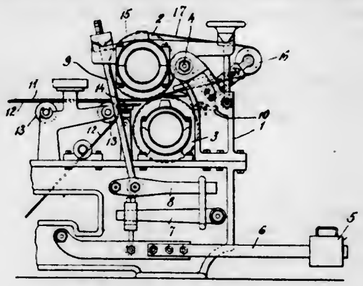
A tool of the character described comprising a bar having a work engaging finger on one end thereof, said finger extending to one side of the tool, a supporting member carried by said tool adjacent the work engaging finger, an anvil element carried by the opposite end of the tool in spaced relation to said last mentioned end to provide a handle and a hammer element slidable on the tool between the supporting member and the anvil whereby the tool and work are moved in accordance with the blow delivering movement of the hammer element.

1,430,165. SEWING-MACHINE ATTACHMENT. FRANCES HEINDRICH and JULIUS GLUCK, New York, N. Y. Filed Aug. 8, 1921. Serial No. 490,596. 2 Claims. (Cl. 242—140.)



1. An attachment to sewing machines comprising an elongated base bar having an opening at one end attached to fit on the spool receiving pin of a sewing machine, a set screw passing through said bar into said opening to engage and hold the same on said pin, a standard extending upward from the opposite end of the bar, a sleeve slidable and rotatable on the upper end of said standard, a set screw extending through the said sleeve and engaging said standard to hold the sleeve in adjusted position, an arm projecting outward from said sleeve, and a thread guide hook formed on the outer end of said arm.

1,430,166. STRIPPING MEANS FOR PRESSURE ROLLS. HAROLD HINCKLEY, Bangor, Me. Filed Oct. 26, 1921. Serial No. 510,449. 9 Claims. (Cl. 92—49.)

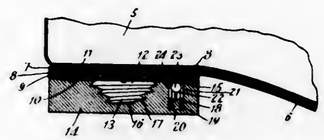


1. In a wet machine, the combination of a pair of pressure rolls, a circumferential groove in the face of one of the rolls, and a guide in said groove at the point where the two rolls contact, said guide extending tangentially beyond the rolls.

1,430,167. METHOD OF TREATING AND RESTORING USED STORAGE BATTERIES. MARSHALL E. HUNT, Belle Plaine, Iowa. Filed Nov. 4, 1921. Serial No. 512,926. 3 Claims. (Cl. 204—29.)

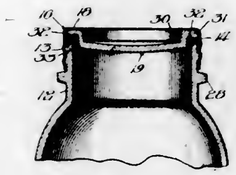
2. The herein described method of treating and restoring used storage batteries, consisting in subjecting the positive and negative plates to heat of different degrees.

1,430,168. FASTENING DEVICE FOR DETACHABLE SHOE HEELS. LOUIS IANNELLE, Newton, Mass. Filed Aug. 8, 1921. Serial No. 490,449. 2 Claims. (Cl. 24—216.)



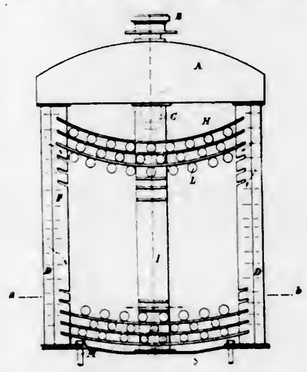
1. In combination, a plate provided with a projection formed integral therewith, and a spring clip and embodying therein a plurality of resilient fingers adapted to spring into engagement with said projection upon said plate, said clip being provided with a plurality of longitudinally extending grooves upon the outer surface thereof, said clip also being provided with a plurality of screw-threads upon the interior thereof.

1,430,169. RECEPTACLE CLOSURE. CHARLES R. KEERAN, Chicago, Ill. Filed Jan. 2, 1918. Serial No. 209,976. 3 Claims. (Cl. 215—40.)



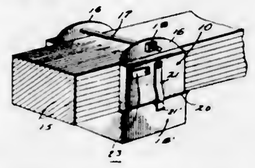
1. In combination with an open mouth receptacle, a closure consisting of a cap provided with an annular depending shoulder and with a gasket seat bounded by the shoulder on one side and by the peripheral edge of the cap on the other, the cap seat being formed with an annular channel adjacent the shoulder, there being a passage leading from the channel to the inner face of the cap, a gasket arranged for positioning upon the seat provided on the cap, the cap and gasket being adapted to fit over the receptacle mouth to form a closure therefor, substantially as described.

1,430,170. RADIATOR FOR MOTOR CARS AND THE LIKE. ALEXANDRE LAMBLIN, Paris, France. Filed Oct. 5, 1920. Serial No. 414,887. 2 Claims. (Cl. 257—125.)



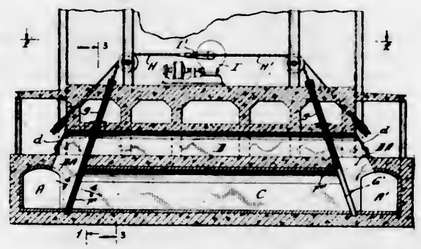
1. In a radiator for thermal motors, cooling elements comprising flat tubes through which the water to be cooled circulates, three conduits for the inflow and the outflow of the water, the cooling elements being fixed at three points near their base to the three conduits, and means for securing the connection between the cooling elements and the water conduits.

1,430,171. LUBRICATING ATTACHMENT FOR SPRINGS. DAVID L. LAWSON, Orby, Calif. Filed Dec. 9, 1921. Serial No. 521,176. 4 Claims. (Cl. 154—1.)



1. A leaf spring lubricating attachment, comprising a U-shaped member adapted to be fitted upon a leaf spring construction, the leg portions thereof being channeled shaped on inner side and extending below the bridge portion, a wick within each leg portion and extending through an opening in the bridge portion so that the lower ends of said wick may depend below the bridge portion, and a removable lubricating pan fitted upon the extended portions of said legs.

1,430,172. REVERSING VALVE FOR REGENERATIVE FURNACES. CHARLES V. MCINTIRE, East Orange, N. J., assignor of one-third to Louis Wilputte and two-thirds to Alice A. Wilputte, both of New Rochelle, N. Y. Filed Oct. 4, 1919, Serial No. 328,521. Renewed Feb. 16, 1922. Serial No. 537,124. 2 Claims. (Cl. 202—4.)



1. In a regenerative coke oven having distributing channels extending longitudinally of the oven battery and connected to the regenerators thereof, the improved means for supplying air under pressure, and for withdrawing products of combustion from said distributing channels which comprise a pair of conduits extending transversely of the oven structure and arranged one above the other, a pair of reversing valves spaced apart longitudinally of said conduits and each movable from one position in which it closes one of said conduits to a second position in which it closes the other of said conduits, means for supplying air under pressure to one of said conduits between said valves, and a products of combustion outlet opening from the other conduit between said valves.

1,430,173. HAIR-CUTTING MACHINE. PETER A. MALVICK, Columbus, Ohio. Filed June 27, 1921. Serial No. 480,527. 4 Claims. (Cl. 36—1.)

1. A hair cutting tool comprising a handle having a chamber formed therein, a guard plate projecting rigidly from said handle and including a plurality of spaced teeth of uniform length, a reciprocatory cutter mounted upon said plate and provided with teeth capable of registering with the teeth of said plate, certain of the teeth of said cutter being of substantially the same length as the teeth of said guard plate, the remaining teeth of said cutter be-



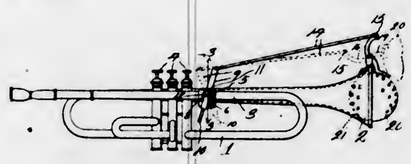
ing appreciably shorter than the teeth of said guard plate, and mechanism situated within the chamber of said handle and capable of effecting the reciprocation of said cutter.

1,430,174. PRESSURE GAUGE. AMOS S. MARCHUS, Oakland, Calif. Filed June 28, 1919. Serial No. 307,278. 3 Claims. (Cl. 73—111.)



1. The combination of a hollow block having a part projecting therefrom adapted to impinge against the needle of a tire valve to open said valve and apertured to permit air to flow from the tire into said block, a plunger in said block arranged to move by the pressure of the air flowing into said block, said block having a longitudinal slot in a side thereof, a slide piece having a neck extending through said slot, one part of said slide piece being arranged to be engaged by said plunger to be moved thereby, a portion of the slide piece outside the block being in the form of a rack, a pinion rotated by said rack, and a rotatable device rotated by said pinion to indicate the movement of the plunger.

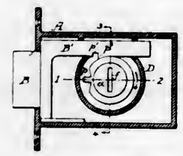
1,430,175. MUTE. PETER MAZZERI, Omaha, Nebr. Filed July 9, 1921. Serial No. 483,543. 2 Claims. (Cl. 84—400.)



1. The combination with a wind instrument having a bell, of a muting device for said instrument, said device comprising a lever pivoted on said bell, a spherical member carried by said lever, a lever pivoted on the instrument at a point removed from the bell, a connecting rod between said last named lever and the bell carried lever and spring means for normally holding said spherical member out of registration with the end of the bell.

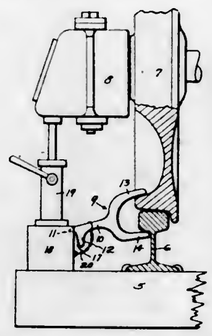
1,430,176. LOCK. DANIEL K. MILLER, deceased, late of Philadelphia, Pa., by Marguerite G. Campbell, executrix, Philadelphia, Pa. Filed May 27, 1918. Serial No. 236,942. 10 Claims. (Cl. 70—46.)

2. A lock in which are combined a tumbler carrier, a set of tumblers having a positive movement, a set of tumblers the movement of which is due to frictional contact with the positive tumblers, and which are moved towards the bitted face of the key by such contact a device independent of said tumbler carrier whereby the movement of the positive tumblers is effected, and a bolt



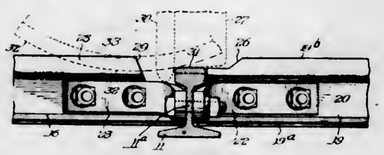
the movement of which is dependent upon the adjustment of the tumblers, said bolt being distinct from the tumbler carrier.

1,430,177. WHEEL CLAMP. BLAGOYE D. MITSAREFF, Wolf Point, Mont. Filed Oct. 3, 1921. Serial No. 504,916. 2 Claims. (Cl. 254—33.)



1. In a device of the character described the combination with a clamp having a forked inner end adapted to embrace the ball of a rail and the flange of a car wheel and having a longitudinally projecting prong at its outer end, of a wooden jack block adapted to be penetrated by said prong and a jack adapted to rest upon said block and hold said block in place when said jack is in action.

1,430,178. RAILWAY-TRACK CROSSING. DANIEL O'HERN, Joliet, Ill. Filed Apr. 22, 1922. Serial No. 556,066. 2 Claims. (Cl. 246—463.)



1. In a railway crossing the combination of a pair of continuous rails extending through said crossing, a plurality of intersecting rails forming an intersecting track, the ends of said intersecting rails terminating adjacent the continuous rails and a plurality of curved bars connecting the ends of said intersecting rails to said continuous rails.

1,430,179. DREDGE HULL. WILLIAM H. OWENS, Evans City, and JOHN L. TAYLOR, West View, Pa. Filed Mar. 11, 1922. Serial No. 542,941. 5 Claims. (Cl. 114—77.)

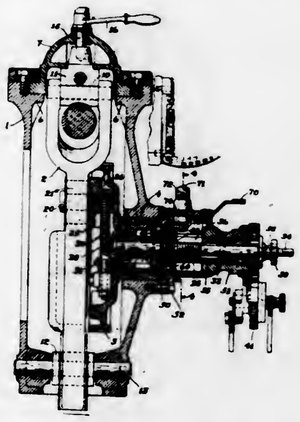
1. A hull comprising a plurality of pontoon members, each of said members being composed of bottom, end and

side framing having suitable plating rigidly secured thereto, and a plurality of trusses extending in a fore-and-aft direction the entire length of the hull and adapted to



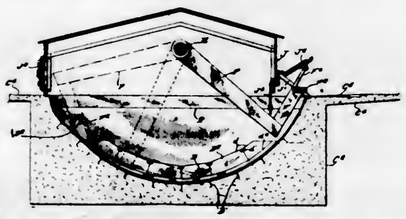
rigidly connect said pontoons together, said trusses each being composed of top and bottom chords, a plurality of vertical posts and a plurality of diagonal bracing members.

1,430,180. METAL SHAPER. ALBERT W. PARKES, Dundas, Ontario, Canada, assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed June 10, 1920. Serial No. 387,935. 7 Claims. (Cl. 90—39.)



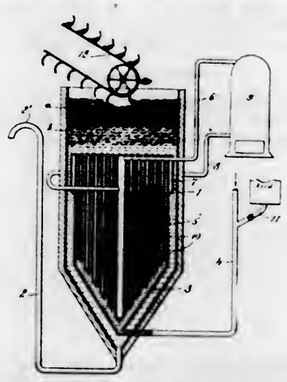
1. In a shaper having a ram and an oscillating link, an adjustably mounted crank pin to vary the stroke of said link and ram, means for adjusting the position of said crank pin, an indicator dial, a pointer movable over said dial, a screw threaded portion on said crank pin adjusting means, and means engaging said screw thread to position said pointer whereby the position of the pointer relative to said dial indicates the stroke for which the shaper is adjusted.

1,430,181. SETTLING TANK. WILLIAM HESSER PAVITT, Jr., Brooklyn, N. Y., assignor of one-third to Louis Wilputte and two-thirds to Alice A. Wilputte, both of New Rochelle, N. Y. Filed May 16, 1919. Serial No. 297,511. 5 Claims. (Cl. 196—1.)



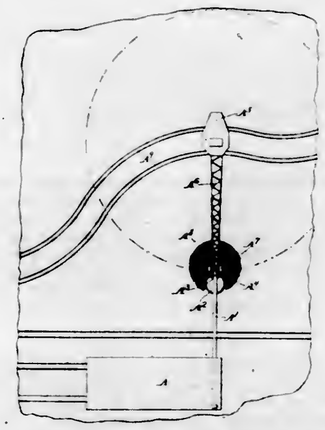
1. The combination with a settling tank of a cleaning member pivoted to swing back and forth through said tank about a horizontally disposed axis, the bottom of said tank being curved to closely conform to the path of the cleaning member, except adjacent one end of said path, where it diverges from said path.

1,430,182. DEHYDRATING ACTIVATED SLUDGE. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, a Corporation of Delaware. Filed Mar. 17, 1921. Serial No. 453,187. 35 Claims. (Cl. 71—8.)



1. The method of dehydrating activated sludge which comprises acidifying the sludge under conditions resulting in gas evolution until it is slightly acid to methyl orange indicator and thereby causing levitation of solid matter in the sludge, permitting the levitated solid matter to accumulate and form a floating mass of which a considerable part is above the liquor level of the sludge, and withdrawing solid matter to the desired extent from that portion of the floating mass which is above the liquor level of the sludge.

1,430,183. PROCESS OF HANDLING COAL. JOHN H. D. PETERSEN, Chicago, Ill., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 12, 1918. Serial No. 249,467. 10 Claims. (Cl. 214—152.)

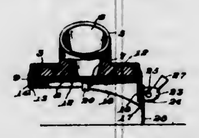


1. The method of handling and storing mixed materials of various grades which consists in conveying the mixed materials to a distribution point, grading the material at that point, conveying one grade of material to the point of use, simultaneously, conveying another grade of material toward a storage place, discharging it by gravity at an intermediate point, moving it thence to the storage place, returning it from the storage place to the intermediate point, conveying it thence to the distribution point and thence with other material of similar grade to the point of use.

1,430,184. METHOD OF MANUFACTURE OF PHENOLS AND THE LIKE. RAPHAEL POCIUS, Phoenixville, Pa. Filed July 17, 1920. Serial No. 397,004. 11 Claims. (Cl. 260—154.)

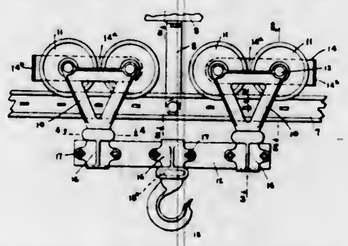
1. The improvement in the art of manufacturing products in which an OH group is introduced by fusion with caustic in excess of the quantity of such caustic which is used up in the reaction, which improvement comprises concentrating the liquid containing the excess caustic, and reusing the same containing the accumulated product in a repetition of the process.

1,430,185. SOUND REPRODUCER. MORRIS S. RANKIN, Mount Ephraim, N. J. Filed May 12, 1921. Serial No. 468,889. 4 Claims. (Cl. 274—35.)



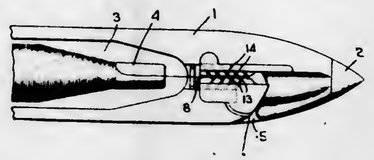
1. A sound-reproducer, comprising a stylus-bar formed of sheet-metal folded to provide a shank portion comprising a double thickness, the sides of said shank portion adjacent at one end being provided with oppositely extending fingers adapted to be secured to a vibratory diaphragm, while the opposite end portions of said shank thicknesses are extended laterally in opposite directions to provide a support for said stylus-bar, and said arms being provided with integral parallel extending ears adapted to receive between them a removable stylus, and means pivotally carried by and between said ears operative to removably retain said stylus in position.

1,430,186. CARRIER. ROBERT F. RASMUSSEN, Oshkosh, Wis., assignor to C. A. Libbey Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Sept. 15, 1921. Serial No. 500,784. 4 Claims. (Cl. 105—152.)



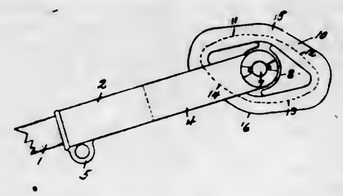
2. A carrier of the class described comprising a pair of brackets, a roller mounted on each of said brackets, each bracket at its lower end having an annular flange, a load carrying member, a pair of clamping members fixed to said carrying member adjacent each end, said clamping members having annular grooves adapted to receive the flanges of said respective brackets, a second load carrying member having at its upper end an annular flange, and a pair of clamping members fixed to said first mentioned carrying member intermediate said first mentioned pairs of clamping members and having an annular groove adapted to receive the flange of said second mentioned carrying member, for the purpose described.

1,430,187. LOOM SHUTTLE. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 28, 1922. Serial No. 539,970. 4 Claims. (Cl. 139—46.)



1. A loom shuttle having a body portion presenting a filling carrier chamber, a delivery eye at one side of the body, a filling passage extending longitudinally of the shuttle and connecting the filling carrier chamber and the delivery eye, and a threading slot extending longitudinally into the filling passage at the top and leading into the delivery eye, together with a plurality of oppositely disposed pins mounted in the body with their free ends overlapping above the threading slot, the free ends of the pins at the delivery eye side standing slightly higher than those at the opposite side whereby as the filling is drawn down into the filling passage and delivery eye it is drawn between and beneath the pins which thereupon act to prevent the filling from being moved or thrown out of the filling passage.

1,430,188. TROLLEY SHOE. HARRY A. RHOADS, Leetonia, Ohio. Filed Apr. 1, 1922. Serial No. 548,801. 2 Claims. (Cl. 191—59.1.)

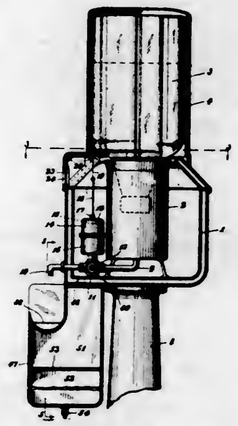


1. In a device of the class described, comprising four wire engaging surfaces, said surfaces forming an outer groove, said wire engaging surfaces practically forming a substantially elliptical shaped perimeter, substantially as described for the purpose set forth.

1,430,189. LIQUID-VENDING MACHINE. JOSEPH RINALDI, New York, N. Y. Filed Sept. 15, 1919. Serial No. 323,850. 4 Claims. (Cl. 221—117.)

1. A liquid dispensing machine embodying a casing, provided with a sight opening, a liquid supply reservoir positioned within the casing, a duct leading from the supply reservoir to the exterior of the casing, a measuring receptacle associated with the duct and a valve cooperating with the duct for placing the measuring receptacle in communication with the supply reservoir or with the outlet end of the duct, in combination with a float controlled valve associated with the measuring receptacle for allowing the air to be expelled from said receptacle when liquid flows thereinto and to seal

said receptacle against overflowing when the receptacle has been filled, an indicating member movable interiorly of the sight opening in the casing and operative con-



nections between the indicator and the float operated valve, whereby the presence of liquid in the measuring receptacle may be visually indicated.

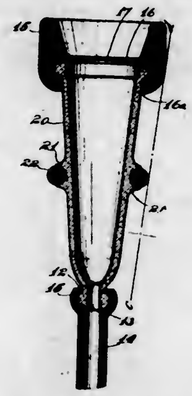
1,430,190. SHANK PIECE FOR SHOES. BENJAMIN Ross, Brooklyn, N. Y. Filed Aug. 12, 1921. Serial No. 491,726. 6 Claims. (Cl. 36—76.)



1. A shank piece for shoes, comprising a bearing plate adapted to be secured upon the heel portion interiorly of the shoe and having a part to protrude toward the shank of the shoe, a convexly curved yielding strip having one of its ends slidably pivoted to the protruding part of the bearing plate and its other end adapted to be held to the shank of the shoe to allow the pivoted end of the strip to slidably move lengthwise and move crosswise on top of the bearing plate, and the second end part of the strip having a laterally extending concaved portion.

1,430,191. TEAT CUP FOR MILKING MACHINES. NEALON D. RUTHERFORD, Lansing, Mich., assignor to United Engine Company, a Corporation of Michigan. Filed Apr. 26, 1920. Serial No. 376,528. 3 Claims. (Cl. 31—102.)

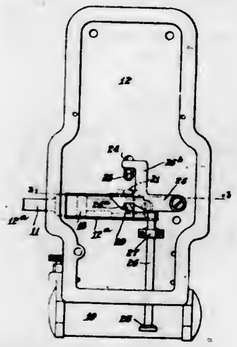
1. In a teat cup, the combination with a frangible body or bowl portion of substantially conical form, being provided with a circumferential bead at its larger end, a flexible teat engaging device held in position on the said frangible body portion or bowl by the said bead, the smaller end of the frangible body portion or bowl being provided with a perforated nipple adapted to form a union with the flexible connection, there being a grooved peripheral enlargement formed integrally on the exterior of said body portion or bowl intermediate the extremities thereof, and a circumferential member of flexible material in the said groove, the exterior peripheries of said circumferential flexible member and said teat engaging device lying in common planes, each wholly without the said frangible body portion or bowl of the teat cup, whereby to protect the said frangible body portion or bowl against contact should the cup forcibly contact with a plane hard surface.



2. In a teat cup, the combination with a bowl being provided with a circumferential bead at one of its ends, a flexible teat engaging device held in position on the said bowl by the said bead, a diaphragm having a perforation at the approximate center thereof and a depending flange adapted to pass over said bead and embrace the outer walls of said bowl intermediate the inner wall of said teat engaging device and said bowl.

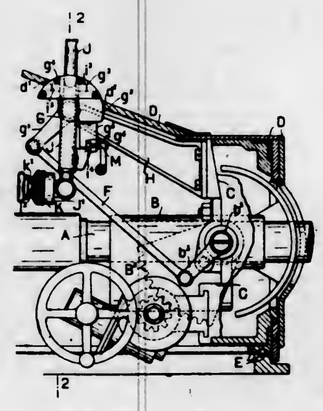
3. In a teat cup, the combination with a substantially conically shaped bowl having a circumferential bead at its larger end with a flexible teat engaging device adapted to engage said bead and a portion of the outer wall of said bowl, a diaphragm having a perforation at its approximate center and of dish-like formation, said diaphragm being provided with a skirt-like portion adapted to lie over said bead and embrace the upper portion of the said bowl intermediate the said bowl and the said teat engaging device.

1,430,192. LOCKING DEVICE AND RELEASING MECHANISM FOR DOOR CHECKS. NEWTON L. SCHLOSS, New York, N. Y. Filed Dec. 27, 1920. Serial No. 433,209. 2 Claims. (Cl. 16—52.)



1. In means for controlling an electrically operated locking and releasing mechanism for a door check, the combination with an arcuately movable main arm having ratchet teeth and a cam surface, of a pivotally mounted pawl having one end movable into the path of the said ratchet teeth and the opposite end being provided with a projecting portion movable through a vertical plane in which the said cam is adapted to pass, and a pivotally mounted hook member movable longitudinally through the said vertical plane and provided with a forked free end, one arm of said fork being provided with a notch to receive the cam on the main arm and the other arm of the fork having an angular projection above the projecting portion of the pawl, whereby movement of the said pawl to engage with the ratchet teeth of the main arm will operate the hook member to disengage the notch from the said cam.

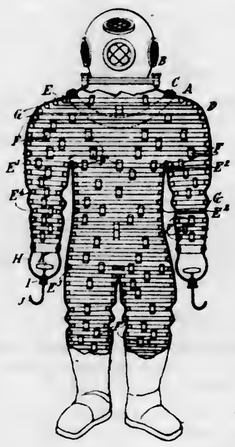
1,430,193. SIGHTING DEVICE FOR ARMORED PORTABLE GUNS. RICHARD SCHÜRMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Jan. 17, 1921. Serial No. 437,886. 6 Claims. (Cl. 33—48.)



1. In a transportable gun having an armored carriage and trunnions about the axis of which the gun barrel may be elevated, a sighting device arranged on said carriage and comprising a sighting telescope, a supporting member for said telescope mounted on the carriage to rotate about an axis disposed in parallel to the gun trunnions and carrying an arc-shaped head surrounding the telescope, the armour having an opening through which said head and telescope project, means for fixing the sighting line of the telescope in different angular positions to correspond to the range of the target, pivotal means for connecting the telescope to said supporting element, the axis of said pivotal means being arranged at right angles to the axis of rotation of said supporting element and adjustable in unison with said supporting element parallel to the direction to be given the bore of the gun barrel, and means for fixing the telescope in different angular positions with respect to the axis of said pivotal means whereby the influence exerted by an oblique position of the trunnions may be eliminated, the arc-shaped head of said supporting element closing the opening in said armour in any position imparted to the supporting element.

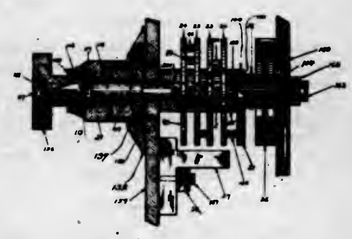
1,430,194. DIVING DRESS. MAXIMILIAN CHARLES SCHWEINERT, New York, N. Y. Filed Aug. 1, 1913, Serial No. 782,467. Renewed Feb. 27, 1922. Serial No. 539,773. 3 Claims. (Cl. 61—71.)

1. A diving dress having a series of circularly extended tubes connected with the dress proper, said tubes being constructed of flexible material with thick walls capable of withstanding a high internal pressure, and being adapted to be inflated to a high pressure to distend the tubes to ring-shape, the internal pressure holding said tubes in said ring-shaped position as against external



pressure of the water, whereby to relieve the diver of pressure, and at the same time permit motion of the diver's limbs.

1,430,195. PERMUTATION LOCK. JOHN C. SHELLER, Janesville, Wis., assignor to Elias Segal and Leon Boruszak, both of Janesville, Wis. Filed Feb. 10, 1921. Serial No. 443,907. 8 Claims. (Cl. 70—53.)

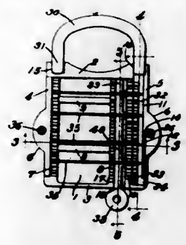


1. In a permutation lock, a rotatable arbor having a sleeve mounted thereon, said sleeve carrying a series of notched tumbler disks, a second arbor geared to the first and having a second series of notched tumbler disks mounted thereon, means operable by the rotation of said sleeves for bringing the notches of the first series of disks into alignment, means operable by the rotation of said arbors for bringing the notches of the second series of disks into alignment, a knob slidably mounted on said first named arbor, means for clutching said knob with the arbor when slid outwardly, and means for clutching it with the sleeve when moved inwardly.

1,430,196. LOCK. CHARLES W. SNEDEKER, Kingston, N. Y. Filed Feb. 18, 1921. Serial No. 446,085. 4 Claims. (Cl. 70—108.)

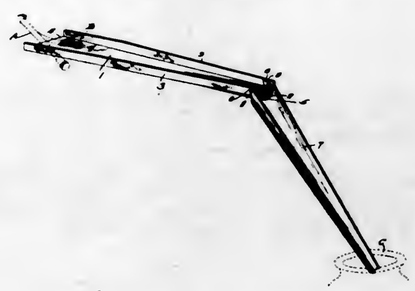
4. A pad-lock comprising a case provided with spaced racks, and having a key-way; a tumbler rod extended transversely of the key-way, one end of the tumbler rod

being received in one rack, and the other end of the tumbler rod being slidable in the other rack, the tumbler



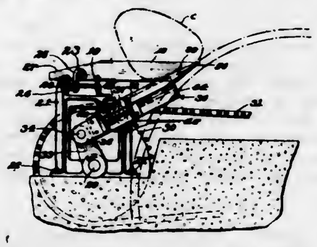
rod being shiftable in the racks to enable the lock to be opened by different keys; and a shackle having means wherewith the tumbler rod engages.

1,430,197. DRAINAGE DEVICE. FRANCIS M. SONDAY, Churubusco, Ind. Filed July 22, 1921. Serial No. 486,871. 2 Claims. (Cl. 137—111.)



1. A drainage device for undertakers, comprising a metal trough widened at its receiving end and narrowed at its mouth and having upturned sides, said trough having slots in its upturned sides near its mouth, and a second trough positioned under the mouth of the first-mentioned trough and having hooked members releasably engagable in the slotted portions of the first mentioned trough and depending therefrom, substantially as shown.

1,430,198. APPARATUS FOR REMOVING OBJECTS FROM A LIQUID BODY. FRED STEBLER, Riverside, Calif. Filed July 13, 1921. Serial No. 484,305. 8 Claims. (Cl. 210—173.)



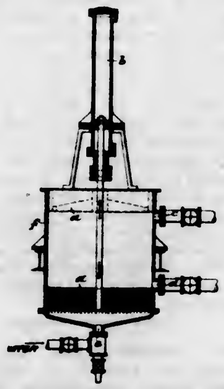
1. In an apparatus of the character described, rotary means to remove objects from a liquid body, a platform adjacent the rotary means and means operating to intermittently pitch the objects from said platform.

1,430,199. LUBRICATOR. OLOF SWANSON, Denver, Colo. Filed Mar. 27, 1920, Serial No. 369,231. Renewed Feb. 24, 1922. Serial No. 539,035. 10 Claims. (Cl. 184—3.)



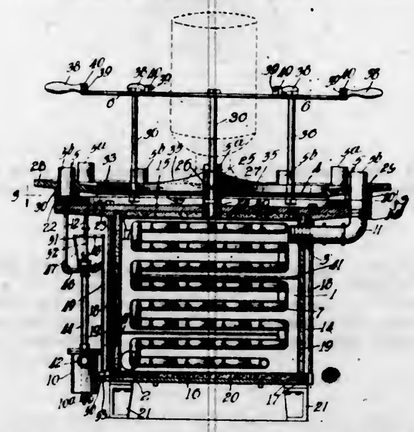
7. A lubricator comprising a casing adapted to contain lubricant, means to control the escape of lubricant therefrom, a chamber therebeneath into which said lubricant escapes, means in the bottom of said chamber for feeding said escaped lubricant to a wheel-flange, and a steam chamber disposed adjacent said lubricant chamber, there being a port between said steam chamber and said lubricant chamber for supplying a small amount of steam to the latter, said lubricant-feeding means comprising a pin loosely mounted in the lower end of the lubricant chamber, and along the sides of which the lubricant is adapted to flow.

1,430,200. PROCESS FOR PURIFYING SUGAR JUICES BY FILTRATION AND DECANTATION. FRITZ TIEMANN, Berlin-Wilmersdorf, Germany. Filed July 6, 1921. Serial No. 482,781. 4 Claims. (Cl. 127—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



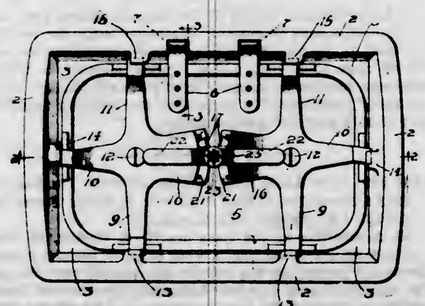
1. A method for purifying sugar juices by filtration and decantation, comprising moving a body of filtering material through the stationary juices and squeezing out the juice contained in the sediment accumulated beneath the filter, removing the filtered juice left in the wake of said moving filter, and abruptly returning the filtering material at a relatively high velocity for removing the sediment accumulated within the filter and upon its lower surface.

1,430,201. CAN STERILIZING AND DRYING APPARATUS. THEODORE L. VALERIUS, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1917. Serial No. 195,475. 5 Claims. (Cl. 141—7.)



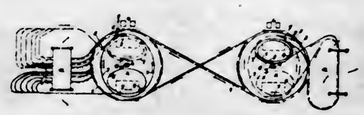
3. An apparatus of the character described having, in combination, a stationary circular supporting member substantially flat and having an annular peripheral upstanding flange, a rotary can supporting table provided with a peripheral annular portion having a continuous sliding contact with said flange, a series of discharge nozzles carried by said table and inwardly spaced from the periphery thereof, valve-controlled means for supplying a sterilising medium to said nozzles in the rotation of the table, said means including a pipe extending upwardly through the supporting member at one side thereof, and means for supplying a drying medium to said nozzle including a second pipe located substantially diametrically opposite the first mentioned pipe, said supporting member having an enlargement into which said second pipe extends and adapted to cooperate with said annular portion of the table to control the discharge of the drying medium from said second pipe.

1,430,202. LOCK FOR CHURN COVERS. THEODORE L. VALERIUS and OLAF LARSEN, Fort Atkinson, Wis., assignors to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 6, 1918. Serial No. 220,734. 6 Claims. (Cl. 292—51.)



5. In combination, a churn body with an opening in one wall, a cover for closing said opening, a member movably positioned on said cover and comprising a plurality of arms rigid with reference to each other, certain of said arms being adapted to operatively engage with said wall to secure said cover in closed position, and gear means mounted on the cover in operative engagement with one of said rigid arms whereby said securing arms may be positively swung into and out of securing engagement with said wall.

1,430,203. AMUSEMENT RAILWAY. EGON FREIHERR VON TAUTPHOEUS, Munich, Germany. Filed June 20, 1921. Serial No. 478,915. 5 Claims. (Cl. 104—55.)



1. An amusement railway, comprising a main line having a loop therein, a plurality of circulatory auxiliary lines within said loop, and means for transferring cars from the auxiliary lines to the main line.

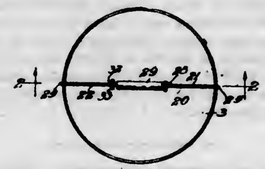
1,430,204. PENCIL. JAMES H. WARING, Milwaukee, Wis., assignor of one-half to Paul F. Schryer, Wauwatosa, Wis. Filed Feb. 28, 1921. Serial No. 448,318. 2 Claims. (Cl. 120—17.)



1. In a pencil, a casing, means movable within the casing for projecting the lead, a sleeve fitted upon one end of the casing and provided with an enlarged end, and a cap movable within the enlarged end of the sleeve and limited by said sleeve so as not to move beyond the end of said sleeve, said cap being operable for actuating said lead projecting means.

2. In a device of the class described, the combination of lead, a lead housing, a ring rigid therewith and having ball engaging surfaces, a group of balls, a ball retainer, a second ring, a second group of balls, said ring having ball engaging surfaces, a spring contacting with said second ring and said retainer, a second ball retainer, a lead guide rigid therewith, a housing for said spring, said rings, said balls, and said retainers limiting the movement of said first mentioned ring, and a casing enveloping said lead housing, said second mentioned housing and said lead guide.

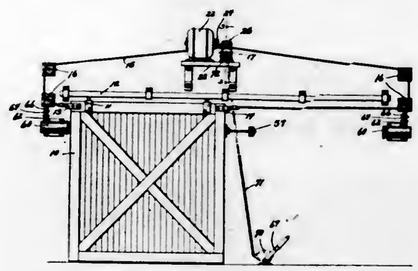
1,430,205. EGG CRATE. ERNEST F. WILLMANN, Palatine, and WILLIAM KUERSTEN, Chicago, Ill. Filed July 25, 1921. Serial No. 487,408. 9 Claims. (Cl. 217—27.)



1. An egg crate comprising a casing having a removable cover, a spring supported transverse member in the lower part of the casing and a similar member in the top of the casing, the springs adapted to contact with the ends of the casing, a series of cellular sections arranged in a stack

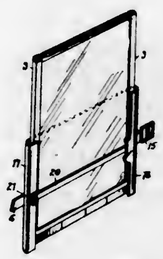
between the two flat members, and each of the cellular sections comprising a shallow tray, the tray substantially filled with vertical tubular members each adapted to contain one egg.

1,430,206. ELECTRIC DOOR-OPERATING MECHANISM. FOREST E. WILTERDING and NORMAN N. BUCK, Eau Claire, Wis., assignors to said Buck. Filed Apr. 26, 1921. Serial No. 464,587. 5 Claims. (Cl. 268—8.)



1. In combination, a slidable door, an electric motor operable when energized to successively open and close the door, a piston projecting laterally from the door, a dash pot in position to receive the piston when the door approaches the limit of its movement in that direction, and means operable by the entrance of the piston into the dash pot to interrupt the circuit through the motor.

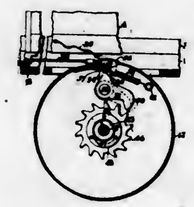
1,430,207. MAP HOLDER. HENRY WOODHOUSE, New York, N. Y. Filed Jan. 25, 1919. Serial No. 273,049. 1 Claim. (Cl. 40—16.)



A map holder comprising a yielding back adapted to be arched, retaining edges formed upon opposite sides of the back, said retaining edges forming longitudinal stiffening members, said retaining edges having open ends for the insertion of a map between the same, a strap having portions thereof secured to the retaining edges adapted for attaching the back to the arm or leg, and a retaining member adapted to extend between the said edges and press the map against the back.

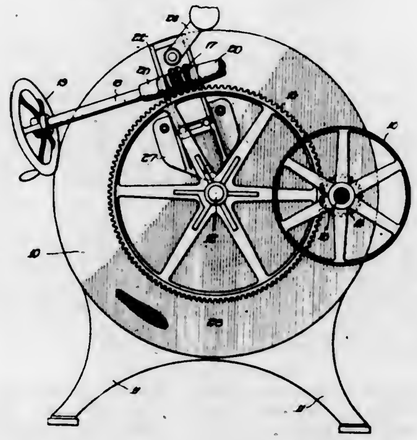
1,430,208. TYPEWRITING MACHINE. EDWIN E. BARNEY, Newark, N. J., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Mar. 10, 1920. Serial No. 364,644. 16 Claims. (Cl. 199—62.)

1. In a typewriting machine, the combination with a carriage, a spring driven wheel and a strap by which said wheel propels said carriage, of a lock adapted to hold said wheel against turning to unwind its spring, one element of



said lock constituting the means whereby said strap is connected with said wheel and said strap normally holding said lock out of action.

1,430,209. GEAR MECHANISM FOR LAUNDRY MACHINES. WILLIAM BARTHOLOMEW, Chicago, Ill., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill., a Corporation of New York. Filed Oct. 11, 1919. Serial No. 330,118. 3 Claims. (Cl. 74—36.)

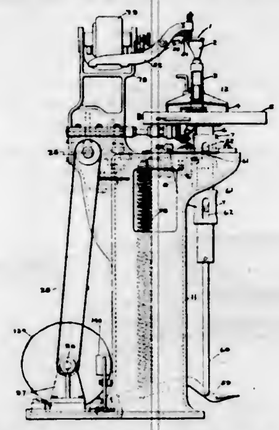


1. In laundry machinery of the class described, the combination of a gear operatively associated with the operating shaft of the machine, a gear member movable into and out of mesh therewith, and a bracket member in which said gear member is movably mounted, said bracket member being adjustable for correcting the meshing relationship of said gear and gear member.

1,430,210. INSOLE-ROUNDING MACHINE. CHARLES C. BLAKE, Brookline, Mass. Filed Aug. 8, 1916. Serial No. 113,722. 47 Claims. (Cl. 12—17.)

36. A machine of the class described, having, in combination, an operating tool, a work support, feeding means, means for correcting the relative position of the tool and the support during the feed including a leader for determining the path of the tool, mechanism for relatively shifting the tool and the work to cause the tool to traverse a detour coterminous with said path, a driving mechanism

for the shifting mechanism, means on the leader for holding the driving mechanism inoperative, tripping devices on



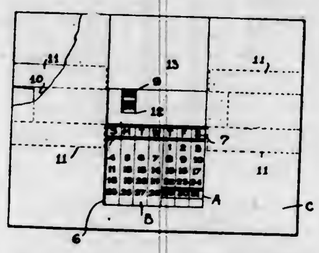
the leader for throwing the driving mechanism into operation, and connections between the leader and the driving mechanism, substantially as described.

1,430,211. BELT FASTENER. JACOBUS JOHANNES BERNARDUS JOSEPHUS BOCVY (NICOLAASZOON), Dordrecht, Netherlands. Filed July 25, 1919. Serial No. 313,185. 3 Claims. (Cl. 24—33.)



3. A belt fastener comprising two pairs of pincers connected by a movable connecting piece, each pair of pincers comprising two stampings pivoted together, and the free arm of each pair being forked, and a locking bolt engaging the forked extremity of each pair of pincers and having its shaft enclosed and engaged by the forked extremities of the gripper arms which are bent toward each other for this purpose.

1,430,212. CALENDAR. LEWIS J. BRABANT, Milwaukee, Wis. Filed July 10, 1919. Serial No. 309,860. 6 Claims. (Cl. 40—109.)



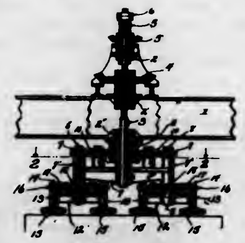
1. In a calendar, a slide having apertures, a second slide movable vertically thereon and having thereon a month group with the months classified in rows according to the number of days in them, each row of months having corresponding thereto a specially arranged and positioned row of figures, the distance between and relative position of corresponding rows being similar in each case so that they may show coincidentally through the apertures in the first named slide, said first named slide having thereon a date group of sufficient numerals to form a twenty-eight day month so that when a row of months show through one aperture, there will appear at further apertures following the figures 28 appropriate numerals extending the date group to 29, 30 or 31, as appropriate to the months shown, substantially as described.

1,430,213. VEHICLE WHEEL RIM. RICHARD S. BRYANT, Cleveland, Ohio, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 11, 1914. Serial No. 823,981. 3 Claims. (Cl. 301—30.)



1. The combination with a transversely split tire-supporting rim, having a transversely disposed slot adjacent to, but spaced from, one end of said rim, such slot having its transverse face nearest such rim-end formed at an angle to the radius of said rim; of a plate attached to the other end of said rim and extending beneath such first-named end, when such ends are brought into juxtaposition; a transverse rib on said plate adapted to thereupon engage such slot and having an edge complementary to such acute-angled edge of the latter; and a locking member pivotally mounted upon the first-named end of such rim and adapted to engage with said plate and thereby prevent disengagement of said rib from such slot.

1,430,214. GRINDING AND POLISHING MACHINE. JAMES CARRIE, Butler, Pa., assignor to William D. Sawyer, Milwaukee, Wis. Filed Apr. 5, 1921. Serial No. 458,859. 2 Claims. (Cl. 51—120.)

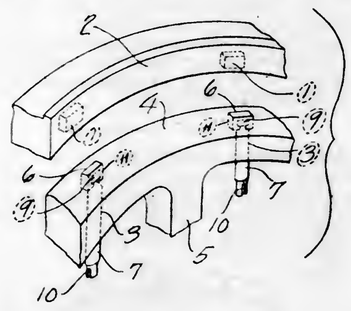


1. A grinding and polishing machine comprising a vertically adjustable main drive shaft, a master head revoluble with the main drive shaft, a fixed master gear positioned above said master head, a plurality of vertically disposed arbors journaled in the master head in gear connection with the master gear wheel, a burnishing head secured to each arbor, an auxiliary gear wheel positioned axially about each arbor, a series of vertically disposed spindles journaled in each burnishing head, each being in gear connection with its associated auxiliary gear, and a burnishing shoe secured to the lower end of each spindle.

1,430,215. TIRE LOCK FOR LOCOMOTIVE WHEELS. IRA E. CORWIN, Jerome, Ariz. Filed Oct. 31, 1921, Serial No. 511,572. Renewed July 31, 1922. Serial No. 578,849. 2 Claims. (Cl. 295—15.)

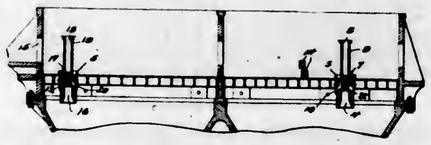
1. In combination with a locomotive drive wheel and the tire thereof, the rim of the wheel having a threaded bore extended radially therethrough and the tire having

an elongated recess on its inner side; a lock for the tire, same comprising a threaded pin set through the threaded bore of the rim, said pin having a neck portion and a



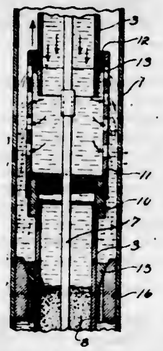
squared head rotatively mounted on the neck portion; and a U-shaped yoke loosely mounted over the head and adapted to engage the recess in the tire.

1,430,216. COAL WASHER. FERNAND COURTOY, Brussels, Belgium. Filed June 24, 1919. Serial No. 306,460. 6 Claims. (Cl. 83—79.)



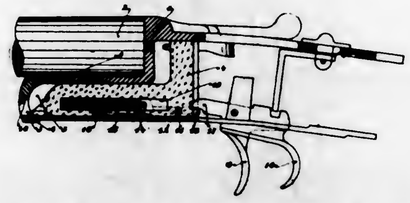
1. In a coal washer, in combination, a screen for supporting coal and heavier impurities to be separated therefrom and having an aperture therein for the passage of such impurities, means for forcing a liquid through the meshes of the screen, and means responsive to the height of liquid over the screen for controlling the passage of impurities through said aperture.

1,430,217. TUBING BLEEDER. FRED NELSON CRIPPEN, Pasadena, Calif. Filed June 12, 1922. Serial No. 567,557. 2 Claims. (Cl. 103—221.)



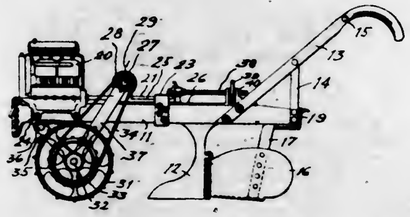
1. A tubing-bleeder detachably connecting two adjacent sections of right-hand screw-threaded well tubing and including a first collar screwed upon one of said tubing sections, a second collar screwed upon the adjacent tubing section and having a left-hand screw-threaded engagement in the first collar permitting a separation of the two sections by a right-hand rotation of one section relative to the other, and a barrel carried by the first collar and surrounding the second collar and adjacent tubing section and provided with a stop abutment with which the second collar engages to limit the separation of the two sections, the barrel having perforations allowing the escape of liquid from the tubing when the sections are separated.

1,430,218. HAMMERLESS SMALL ARM. JEAN DESSARD, Herstal-lez-Liege, Belgium. Filed Dec. 14, 1920. Serial No. 430,756. 5 Claims. (Cl. 42—43.)



1. A firing mechanism for guns comprising in combination, a frame, a bolt reciprocable in the frame and provided with a longitudinal recess, a sear pivot pin fixed in the frame and passing through the recess, and a firing spring disposed in the recess between the sear pin and one end of the recess.

1,430,219. TRACTOR PLOW IMPLEMENT. ZACARIAS DOMINGUEZ, Los Angeles, Calif. Filed Jan. 3, 1921. Serial No. 434,692. 4 Claims. (Cl. 180—19.)



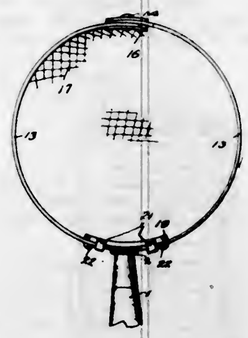
1. In a plow, the combination with a beam, of a bearing member sliding on the beam, retaining members for the bearing member and permitting longitudinal movement thereof, brackets pivoted to the beam, brackets pivotally connected to the bearing member, axial shafts pivotally connected to said brackets, tractor wheels on the axial shafts, a motor mounted on the plow-beam, a counter shaft journalled in the bearing member, a motor power shaft journalled in the bearing member, a worm pinion feathered to the power shaft, a gear in mesh therewith, and keyed to the countershaft, and power transmission elements connecting the tractor wheels and the countershaft.

1,430,220. FLYING-MACHINE STRUCTURE. CLAUDIUS DORNIER, Friedrichshafen, Germany. Filed June 28, 1920. Serial No. 392,543. 4 Claims. (Cl. 244—12.)



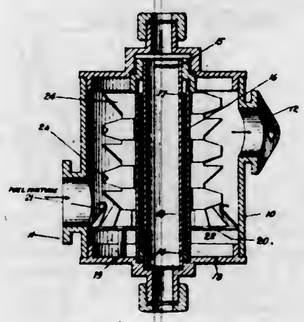
1. In a flying machine in combination, a supporting plane, a pair of cross beams extending from the hull substantially diagonally across said supporting plane so as to meet in one point and a stay obliquely extending between said hull and the meeting-point of said cross-beams.

1,430,221. FISHING NET. JAMES K. DUKAS, Edwardsville, Pa. Filed Aug. 10, 1920. Serial No. 402,525. 2 Claims. (Cl. 43—12.)



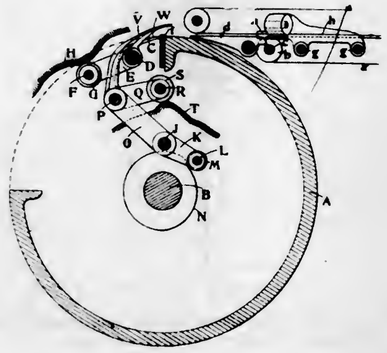
1. A collapsible net frame comprising a plurality of hoop sections pivotally secured together at the outer ends, a handle receiving member, means for pivotally connecting the inner ends of said sections to said handle receiving member, the inner end of each section being inclined, a handle provided with a reduced shank adapted to engage said handle receiving member and fit between the inclined ends of said hoop sections for holding the same against swinging movement and means carried by said handle receiving member for engaging the hoop sections and prevent the swinging thereof in a downward direction.

1,430,222. MEANS FOR COMPLETING THE VAPORIZATION AND HOMOGENIZATION OF MIXTURE DELIVERED BY A CARBURETOR. ARTHUR B. EVANS, West Perth, Western Australia, Australia. Filed Apr. 29, 1921. Serial No. 465,412. 2 Claims. (Cl. 257—241.)



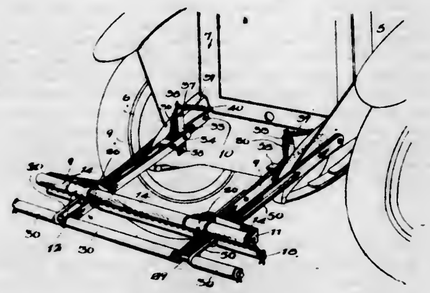
1. In an apparatus of the class described, the combination with a mixing chamber having an inlet and an outlet, of a tube extending through said chamber and through which exhaust gases pass, a jacket surrounding the tube, mercury within said jacket, and baffle devices located within the chamber.

1,430,223. SHEET-FEEDING MECHANISM FOR PRINTING PRESSES. ARTHUR BURROUGHES EVANS and RAYMOND PERCIVAL PAYNE, Leeds, England. Filed May 10, 1922. Serial No. 559,853. 4 Claims. (Cl. 271—53.)



1. Sheet feeding mechanism for printing presses wherein the sheet is seized by grippers upon a continuously rotating sheet carrying or impression cylinder at a time when it is travelling towards the grippers at a speed approximately equal to the circumferential speed of the cylinder, having means for effecting front registration of the sheet against front lays mounted upon the cylinder, such means consisting of mechanism also mounted upon the cylinder and adapted to draw the sheet into contact with the front-lays before the grippers become operative, substantially as described.

1,430,224. AUTO FENDER. SAMUEL G. FITZ SIMONS, Charleston, S. C. Filed Mar. 27, 1922. Serial No. 547,077. 11 Claims. (Cl. 293—41.)



1. A bumper for automobiles comprising upper curtain supporting arms having means whereby the same may be pivotally connected to a vehicle, lower curtain supporting arms, a curtain associated with said upper and lower arms, hanger bars pivoted to said lower arms and to the vehicle, and a bumper having means whereby to hold the upper and lower arms in position.

1,430,225. WALL-PAPER CLEANER. GEORGE J. FORCIER, Cleveland, Ohio. Filed May 15, 1920. Serial No. 381,646. Renewed June 16, 1922. Serial No. 568,819. 3 Claims. (Cl. 15—219.)

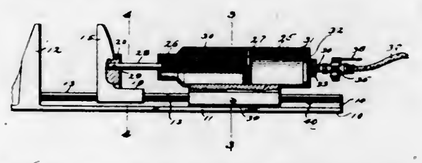
1. In a device of the character described, the combination with a frame provided with a cross bar, of a re-

ceptacle mounted within said frame for swinging movement, a latch on said cross bar and means carried by



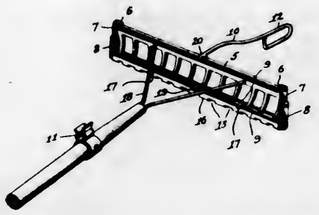
said receptacle and cooperating with said latch for locking the receptacle against swinging movement.

1,430,226. VISE. EVARIST GOODREAU, Cordova, Territory of Alaska. Filed Dec. 29, 1921. Serial No. 525,616. 6 Claims. (Cl. 81—17.)



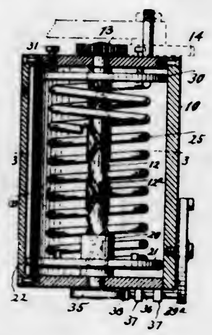
1. In a device of the character described, a rail, a stationary jaw at one end of the rail, a second jaw opposing the stationary jaw and slidable longitudinally of the rail, a cylinder mounted on said rail and in alignment with the second or movable jaw, a piston within said cylinder, connecting means between said piston and the movable jaw and connecting means whereby a compressed fluid may be injected into said cylinder for causing said piston to move in a direction for advancing the movable jaw toward the stationary jaw, and means associated with the piston adapted to cause the same to move in a direction for retracting the movable jaw from the stationary jaw upon the discontinuance of the fluid pressure therein.

1,430,227. LAWN RAKE. CLARENCE F. HAMILTON, Peru, Ind., assignor of one-half to Charles W. Gipson, Peru, Ind. Filed July 10, 1922. Serial No. 573,960. 5 Claims. (Cl. 55—146.)



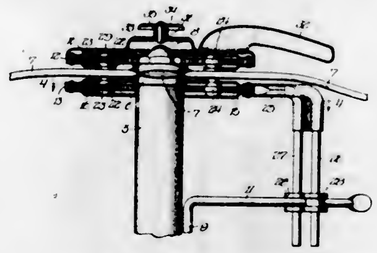
1. In combination with a lawn rake, a rock-shaft journaled on the top-bar of the rake head, a lever connected to this rock-shaft, means for detachably holding the lever against the rake-handle, and means whereby when said lever is disconnected from the rake-handle and swung over backwardly the teeth of the rake will be cleared of rubbish, etc.

1,430,228. DOOR-CONTROLLING MECHANISM. JOSEPH B. HARRIS, Cleveland, Ohio. Filed Nov. 26, 1920. Serial No. 426,476. 4 Claims. (Cl. 16—49.)



3. In a door closing device, the combination of a cylinder adapted to be connected with the door, a shaft rotatably mounted therein, means through which the opening or closing of the door is necessarily accompanied by a rotation of said shaft, a brake disk secured to said shaft, and brake operating mechanism mounted upon the cylinder, the cylinder having radial guides on its lower end, a bar slidable in said guides, a brake shoe fixed to said bar for engagement with the periphery of the brake disk, a rocker pivotally mounted on the cylinder and having an inclined surface with which the end of said bar engages.

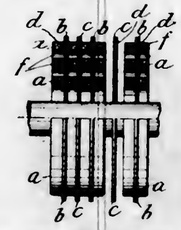
1,430,229. THROTTLE AND HORN CONTROL APPARATUS. GEORGE S. HEATH, Chicago, Ill. Filed Aug. 4, 1922. Serial No. 579,563. 13 Claims. (Cl. 74—33.)



1. The combination with a steering wheel, and a throttle lever disposed beneath said wheel and outside the steering post, of a manually operable device above the wheel, and a connection between said device and said lever for transmitting movement of the device to said lever without affecting movements of said wheel.

1,430,230. BUFFER AND OTHER SPRINGS CONSTRUCTED OF INDIA RUBBER. CHARLES WILLIAM CRESSWELL HINE, Dorking, England. Filed May 18, 1920. Serial No. 382,270. 6 Claims. (Cl. 267—63.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A spring comprising concentrically-arranged rubber rings, metal dividing plates associated with said rings and formed with annular marginal shoulders to surround and confine the end faces of the outer rubber rings, the



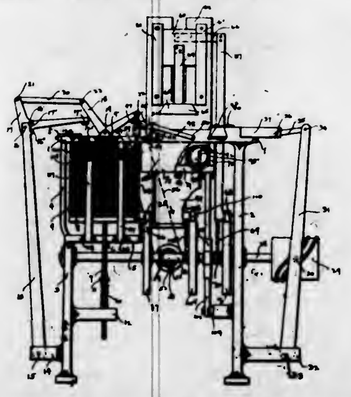
surfaces of said dividing plates from the outer rings inwardly being unobstructed to permit the peripheries of the inner rings to move relative to the plate.

1,430,231. WINDSHIELD VISOR. CHARLES F. HOPEWELL, Watertown, Mass., assignor to Hopewell Brothers, Watertown, Mass., a Copartnership composed of Charles F. Hopewell and Helen C. Hopewell. Filed Sept. 8, 1920. Serial No. 408,965. 5 Claims. (Cl. 296—95.)



1. A device of the class described comprising supporting brackets, a rectangular frame having an extensible rod formed in interlocking sections rotatably mounted in said supporting brackets and a shouldered collar secured to one end of said extensible rod engaging the inner side of one of said brackets and clamping means on said extensible rod engaging the other side of said bracket.

1,430,232. MACHINE FOR MAKING PAPER BOXES. CHARLES HORTON, Brooklyn, N. Y., assignor to Percy E. Ginn, Boston, Mass. Filed Sept. 26, 1918. Serial No. 255,744. 14 Claims. (Cl. 93—51.)



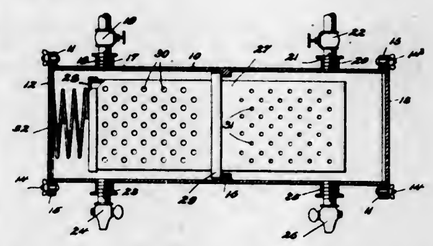
1. In apparatus of the class described, in combination, folding instrumentalities adapted partially to fold a blank, means including an oscillatory member to act on said blank when so partially folded, a device carried by said oscillatory member normally removed from the blank, and means adapted to actate said oscillatory member whereby said device will further fold said blank.

1,430,233. VEHICLE WHEEL. JOSEPH S. JAKUBOWSKI, Wilmington, Del. Filed May 17, 1922. Serial No. 561,644. 3 Claims. (Cl. 152—23.)



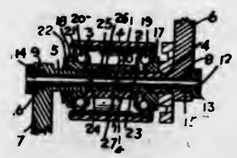
3. In combination, a band, a plurality of blocks arranged about the band in spaced relation to each other, bolts passing through the band and the blocks, said bolts terminating in projecting lugs on the outer faces of the blocks, a pair of spaced rims mounted on the blocks, legs depending from the rims and arranged in pairs so as to embrace the blocks and a bolt connecting the ends of each pair of legs.

1,430,234. FILTER. JOSEPH S. KEITHLINE, Askam, Pa. Filed Aug. 18, 1921. Serial No. 492,334. 6 Claims. (Cl. 210—131.)



1. In a filtering device the combination with an outer cylinder having a removable end closure and longitudinally spaced inlet and outlet openings of an inner perforated cylindrical container for filtering material spaced from the inner surface of the outer cylinder with substantial uniformity laterally, and means between and so connected to the outer periphery of the container and the inner periphery of the outer cylinder between said inlet and outlet openings as to prevent the passage of liquid from the inlet to the outlet in the space between said container and outer cylinder.

1,430,235. BICYCLE-CRANK-HANGER CONSTRUCTION. JAMES WESLEY KELLEY, Oakville, Ontario, Canada. Filed July 25, 1921. Serial No. 487,223. 3 Claims. (Cl. 208—64.)



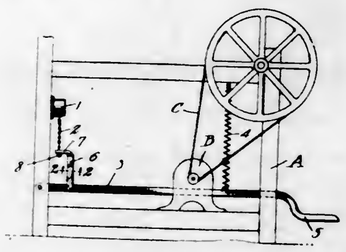
1. In a crank hanger construction, the combination with the centre bracket bearing cups and balls, of a divided axle, each member having a longitudinal groove in longitudinal alignment one with the other, means for tying the divided members of the axle longitudinally together, a bearing cone carried by each member of the divided axle coacting with the balls and cups of the centre bracket, a sleeve surrounding the joint between the members of the divided axle and having an internal longitudinal groove opposing the grooves of the divided axle, and a key adapted to be inserted to engage both the grooves of the divided axle and the groove of the sleeve.

1,430,236. PNEUMATIC TIRE. JOHN GEORGE AULSEBROOK KITCHEN, Lancaster, England. Filed Sept. 25, 1920. Serial No. 412,858. 3 Claims. (Cl. 152—13.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A pneumatic tire having a thickened crown of elastic rubber, and side walls, annular reinforcing layers of flexible material in said walls having their outer edges separated and terminating at opposite sides of the center of the tire, and an annular series of longitudinally spaced reinforcing members disposed transversely of the tire between the tread and said separated edges of the reinforcing layers.

1,430,237. SAFETY ATTACHMENT FOR WASHING MACHINES. HOWARD F. KUHNS, Allentown, Pa. Filed May 16, 1921. Serial No. 469,899. 1 Claim. (Cl. 74—81.)



In a device of the class described, a supporting structure, a standard rising from said structure, a lever fulcrumed at one end on said standard, a coiled spring suspending the free end of said lever from said structure, an arm extending laterally and upwardly from said lever near its fulcrum and having right angular bifurcations at its free end extending toward said standard and adapted to straddle a switch pull chain.

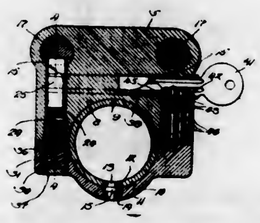
1,430,238. FASTENING DEVICE. HILLARD P. LA BORDE, Driftwood, Pa. Filed Feb. 25, 1922. Serial No. 539,299. 6 Claims. (Cl. 85—5.)



1. A fastening device comprising an open link, abutment blocks extending through the link and engaged with the respective ends thereof, and a wedge extending through the link in engagement with one of the abutment blocks.

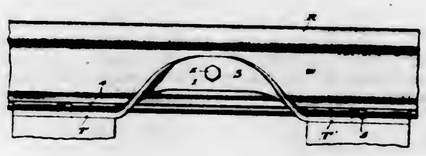
1,430,239. LOCK FOR AUTOMOBILES. HERMAN W. LAMPMAN, Angola, Ind. Filed Aug. 12, 1921. Serial No. 491,820. 3 Claims. (Cl. 70—129.)

2. In an automobile lock, a lock casing, means for securing said casing to the steering column of an automobile, spaced bores in said casing, a pair of plungers slidably mounted in said bores, means connecting said plungers together to limit the movement of said plungers



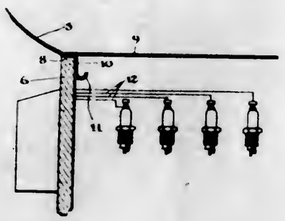
to extended position, a locking bolt for limiting movement of said plungers to retracted position, said plungers when in extended position adapted to receive therebetween a spoke of the steering wheel.

1,430,240. ANTICREEPER FOR RAILWAY RAILS. JOHN H. LARMONTH, Montreal, Quebec, Canada, assignor of one-half to Victor C. Armstrong, Hackensack, N. J. Filed July 19, 1922. Serial No. 576,166. 8 Claims. (Cl. 238—315.)



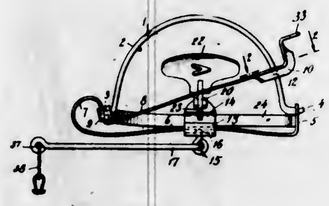
1. A rail anchor including a pair of tie plates, connecting means for the tie plates, and means for securing the connecting means to the web of the rail.

1,430,241. COIL-BOX PROTECTOR. FRANK POWELL LIDE, Decatur, Ala. Filed Oct. 6, 1920. Serial No. 414,951. 2 Claims. (Cl. 180—90.)



1. In a motor vehicle, in combination with the dash thereof, a cowl having its forward edge extended, said extended edge being slit transversely to provide an intermediate portion and two end portions, the intermediate portion being bent to form a trough whereby to discharge the water running forwardly upon said cowl to either side of the engine associated with said motor vehicle and the end portions being bent downwardly whereby the same may be secured to the dashboard for rigidly holding the cowl in position.

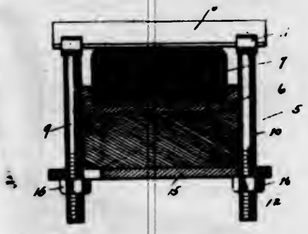
1,430,242. GAME TRAP. ALLEN MCMULLEN, Kenwood, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed Apr. 14, 1919. Serial No. 289,932. 9 Claims. (Cl. 43—88.)



4. The trap comprising a frame, a pair of trap jaws, a cooperating jaw spring of spring steel strip formed with a curved funnel shaped jaw opening flanged down in said strip to provide relatively separated jaw starting portions engaging the jaws when the trap is in set position, and formed with relatively closely spaced portions to engage the jaws when the trap is in its substantially closed sprung position.

7 The jaw trap comprising spring operated trap jaws, a securing chain and a substantially rigid spacing member of such length as to extend adjacent the outer edge of the trap bottom and connected to said chain and loosely and swivelingly connected adjacent the center of the trap bottom to minimize tangling and cramping of the chain.

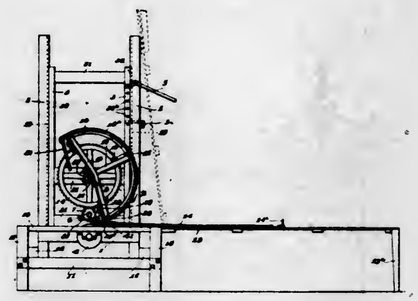
1,430,243. GROUND-GRIPPING DEVICE. PATRICK J. MCNAMEE, New York, N. Y. Filed Dec. 15, 1921. Serial No. 522,573. 2 Claims. (Cl. 152—2.)



1. A ground gripping device of the class described comprising an angle bar, clamping bolts having U-shaped head slidably mounted for adjustment on said angle bar, a clamping plate having slots adjacent each end thereof for receiving said bolts and fastening elements on the bolts for locking said plate and angle bar to the felly and periphery of the wheel respectively.

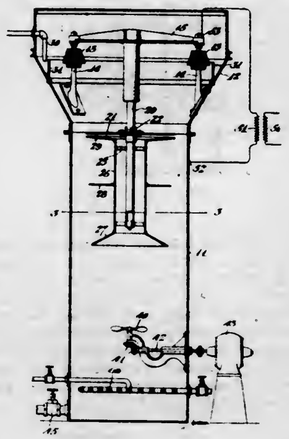
1,430,244. WOOD-BENDING MACHINE. LEWIS PRESTON MALIN, Long Beach, Calif. Filed Sept. 20, 1921. Serial No. 502,009. 5 Claims. (Cl. 144—267.)

1. In a wood bending machine of the character described, a main frame which includes a table, a pair of rigid uprights that extend through the table, a lifting frame vertically movable along the uprights, and means cooperating with the lifting frame for holding the said lifting frame to different vertical adjustments relatively to the table, a forming frame having a semi-circular rim, said forming frame with its rim face opposing the table, a bending band adapted to lie flatwise on the table and to pass between the table and the rim of the forming frame, means on the forward end of the semi-circular rim for clamping the forward end of the bending band to cause it to travel around with the rim of the forming frame, the said band and the forming frame rim constituting the seat



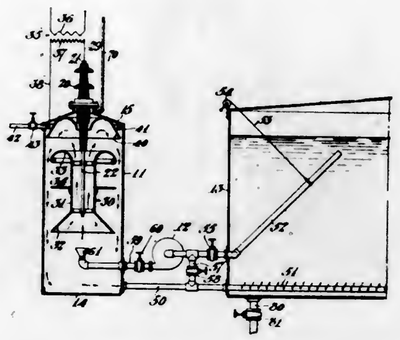
for receiving the forward end of the wooden core to be bent, the said means for clamping the band comprising a segment on the forming frame, a segment on the band for connecting with the other segment, and means for holding the two segments interlocked.

1,430,245. CENTRAL CIRCULATING DEHYDRATOR FOR PETROLEUM OILS. WYNN MEREDITH, Alameda, Calif., assignor to Petroleum Rectifying Company, San Francisco, Calif., a Corporation of California. Filed Mar 14, 1921. Serial No. 452,389. 9 Claims. (Cl. 204—24.)



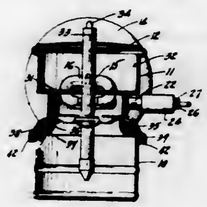
1. In an electrical dehydrator for emulsions, the combination of a hollow cylindrical outer electrode; a hollow cylindrical inner electrode open at the bottom to allow emulsion to pass freely therein; means for directing the emulsion outwardly from the top of said inner electrode, into the space between said electrode; and means for impressing an electrical potential between said inner and outer electrodes.

1,430,246. STRATIFYING DEHYDRATOR. WYNN MEREDITH, Alameda, Calif., assignor to Petroleum Rectifying Company, San Francisco, Calif., a Corporation of California. Filed Apr. 30, 1921. Serial No. 465,909. 6 Claims. (Cl. 204—24.)



1. In a dehydrator for emulsions, the combination of: a charged electrode supported in and surrounded by the emulsion to be treated; and means for surrounding said electrode with a fluid envelope of higher di-electric strength than the emulsion to be treated.

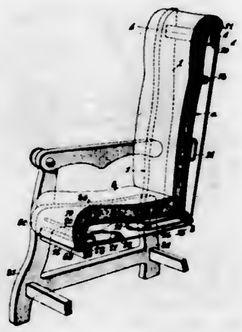
1,430,247. MINER'S LAMP. PETER MIGLIO, Marseilles, Ill. Filed Mar. 29, 1922. Serial No. 547,760. 5 Claims. (Cl. 240—1.)



1. In an acetylene lamp of the character described, a body constituting a water chamber and a carbide chamber connected to the body but separated from the water containing chamber, a pair of burner pipes extending through the side wall of the body and opening into the carbide chamber, said pipes having confronting inner ends, a valve disposed between the confronting ends of the burner pipes and shiftable into contact with one or the other of the burner pipes, and means exterior to the body whereby the valve may be shifted.

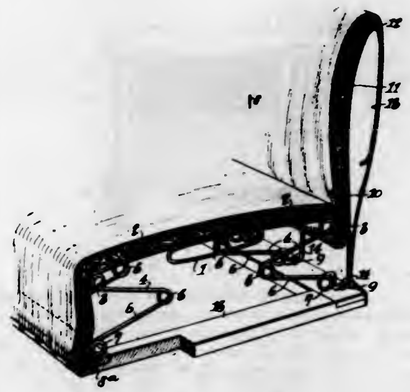
1,430,248. FURNITURE SPRING. FRANK W. MORSE, San Fernando, Calif., assignor of one-half to San Fernando Manufacturing Association, San Fernando, Calif. Filed Dec. 15, 1921. Serial No. 522,542. 6 Claims. (Cl. 155—53.)

1. A furniture spring composed of a single strand of spring wire bent upon itself between its ends to form a coil for fitting onto a fixed member of the furniture to which the spring is applied, one portion of the wire being located at substantially right angles to the other portion whereby to provide back and seat rest members, one end of the strand being shaped to fixedly connect with the upper portion of the chair back, and the other end being



shaped to fixedly connect to the front rail of a chair, said coil constituting the hinge joint that connects the seat and back portions of the spring.

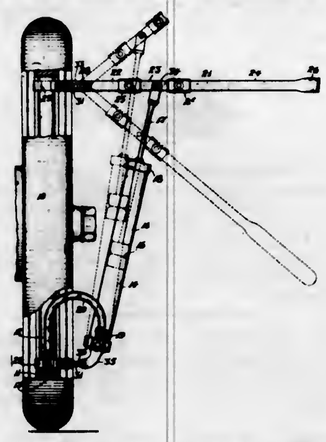
1,430,249. SEAT-CUSHION SPRING. FRANK W. MORSE, San Fernando, Calif., assignor of one-half to San Fernando Manufacturing Association, San Fernando, Calif. Filed Apr. 17, 1922. Serial No. 553,673. 5 Claims. (Cl. 155—179.)



1. A spring composed of a single strand of spring wire including a crown loop, crown end coils, inward V-shaped extensions from said coils with coils at the apexes of the V and means to secure the ends of the wire to the supporting frame of the seat.

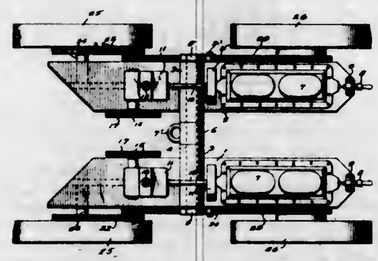
1,430,250. TIRE PUMP. TAKEO NAMURA, Walnut Grove, Calif. Filed June 8, 1921. Serial No. 476,047. 4 Claims. (Cl. 230—27.)

1. A tire pump comprising a pair of clamps adapted to be secured to the spokes of a vehicle wheel, a pump cylinder, a piston therein, a piston rod for said piston, a pivotal connection between one end of said cylinder and one of



said clamps, and a lever handle pivotally connected to the other of said clamps and to the piston rod.

1,430,251. TRACTOR. JOSEPH N. PARKER, Bedford, Va. Filed Dec. 8, 1921. Serial No. 521,001. 3 Claims. (Cl. 180—17.)

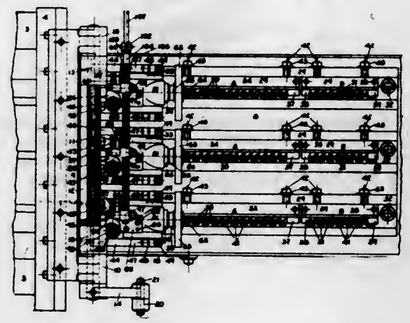


1. A tractor comprising a pair of frames, a connecting member arranged between said frames to maintain them in spaced relation, a power unit mounted on each of said frames, wheels mounted on the outside of each frame, a drive shaft connected to each power unit, a pair of sprockets mounted on each of said drive shafts, sprockets mounted on said wheels, and chains passing over the sprockets on said drive shafts and the sprockets on said wheels.

1,430,252. MULTIPLE GEAR-CUTTING MACHINE. JULIAN L. PERKINS, West Springfield, and FRANK W. SICKLES and JOHN OAKLEY, Springfield, Mass., assignors to Perkins Appliance Company, Springfield, Mass., a Corporation of Massachusetts. Filed July 15, 1920. Serial No. 396,495. 30 Claims. (Cl. 90—8.)

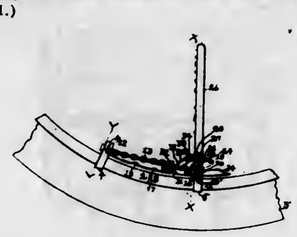
2. In a multiple gear-cutting machine, cutting means reciprocable in a straight path, oscillatory supporting means intersecting the vertical plane of such path, adjustable work-holding means carried by said second-named means, said work-holding means being capable of having attached thereto different types of gear blanks, and to carry the same in cutting position, and means automatically to oscillate intermittently said second-named means.

15. The combination, in a multiple gear-cutting machine, with a gear-blank arbor, a rotary support for said arbor, an index-wheel and a ratchet-wheel mounted on said support, locking, releasing, and actuating means for said ratchet-wheel, locking and releasing means for said index-wheel, and operating means, consisting in part of an arm, for said locking, releasing, and actuating means for said ratchet-wheel, and for said locking and releasing means for said index-wheel, of a suitably mounted bell-crank-lever, a rod, an arm attached to said rod and pivotally connected with said first-named arm, a link connecting said bell-crank-lever and said rod, a suitably supported arm having a lug, and a bolt tapped into and through said lug to provide an adjustable stop for said bell-crank-lever.



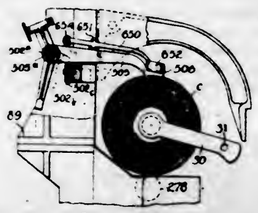
25. The combination, in a multiple gear-cutting machine, of a bracket, a block supported by said bracket, a shouldered sleeve arranged in said block for rotation, a gear-blank arbor having a taper fit in said sleeve, an index-wheel mounted on said sleeve, with the hub of said index-wheel contiguous to the shoulder on said sleeve, a bolt extending into the inner terminal of said sleeve and tapped into the inner terminal of said arbor, a washer interposed between said hub of said index-wheel and the head of said bolt, a ratchet-wheel secured to said index-wheel, a ring loosely mounted on a supporting part of said index-wheel, between the latter and said ratchet-wheel, said ring having an arm and a cam, a spring arranged to actuate said ring in one direction, a detent for said ratchet-wheel, a pawl for said ratchet-wheel, said pawl being pivotally connected with said arm, a locking plunger having teeth for engagement with said index-wheel, and provided with a member which extends into the path of said cam, and means to actuate said arm and ring against the force of said spring.

1,430,253. DEMOUNTABLE WHEEL-RIM MECHANISM. ANTON PERSSON, Calgary, Alberta, Canada. Filed Sept. 11, 1919. Serial No. 323,061. 1 Claim. (Cl. 157—1.)



In a rim breaker a pair of clamps, a lever pivoted to one of the clamps, a toothed bar pivoted to the other clamp and having notches to engage the cross bolt of the first clamp, a pawl pivoted to the lever and engageable with the teeth of the bar and a hook on the pawl with which a flexible connection also pivoted to the second clamp may be adjustably connected.

1,430,254. WINDER. BURT A. PETERSON, Rockford, Ill., assignor, by mesne assignments, to Edgar S. Nethercut, Evanston, Ill. Filed Dec. 3, 1919. Serial No. 342,214. 13 Claims. (Cl. 247—36.)



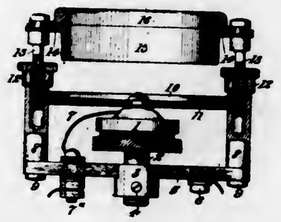
2. A winder having, in combination, means for gaging yarn masses, and means for automatically suspending the operation of the gaging means upon impending faulty coaction between the gaging means and the yarn mass.

1,430,255. BUCKLE FOR BELTS. GEORGE E. PRENTICE, Berlin, and ROBERT C. LEGAT, New Britain, Conn. Filed Feb. 1, 1922. Serial No. 533,146. 2 Claims. (Cl. 24—191.)



1. A buckle for belts comprising a body of channel form, having a front wall bordered by side walls, a clamping lever pivotally supported from said side walls and having a clamping nose that is generally directed towards the rear face of said front wall, a sliding member interposed between said nose and front wall and having a limited sliding movement along said front wall, and said sliding member having a pair of transverse ribs positioned in spaced relation, one on each side of said nose, whereby a circuitous path is provided for a belt end admitted to the space between said sliding member and nose.

1,430,256. METHOD OF AND APPARATUS FOR TELEPHONICALLY TRANSMITTING SPEECH. EDWIN S. PRIDHAM and PETER L. JENSEN, San Francisco, Calif., assignors to Commercial Wireless & Development Company, San Francisco, Calif., a Corporation of California. Filed Aug. 21, 1917. Serial No. 187,361. 9 Claims. (Cl. 179—1̸38.)



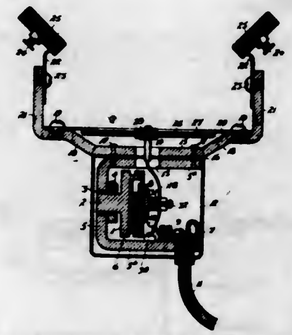
1. The method of telephonically transmitting speech vibrations in an environment of extraneous noises which consists in balancing the noise vibrations in the transmitter system so as to maintain a static condition of the telephone circuit normally and directing the speech vibrations into the transmitter system in a manner to have them unopposed.

1,430,257. TELEPHONE TRANSMITTER. EDWIN S. PRIDHAM, Oakland, Calif., assignor to The Magnavox Company, San Francisco, Calif., a Corporation of Arizona. Filed May 7, 1918. Serial No. 233,134. 9 Claims. (Cl. 179—138.)



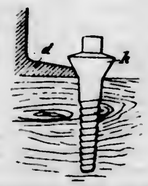
1. In a transmitter for telephonic communication, a variable resistance element, a diaphragm for said element, a bridge for said element and its diaphragm, and a perforated casing surrounding said element and its diaphragm within which the bridge is mounted, said casing acting as a guard for the diaphragm and variable resistance element and permitting free access of sound vibrations to both sides of said diaphragm.

1,430,258. TELEPHONE TRANSMITTER. EDWIN S. PRIDHAM, Oakland, Calif., assignor to The Magnavox Co., San Francisco, Calif., a Corporation of Arizona. Filed Dec. 26, 1918. Serial No. 268,307. 11 Claims. (Cl. 179—122.)



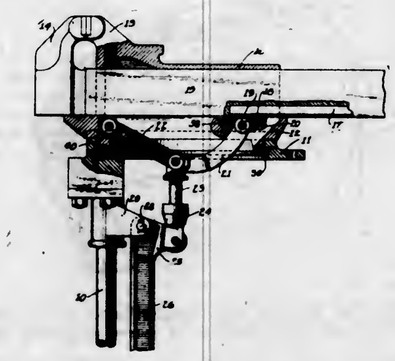
1. In a telephone transmitter, the combination of a casing, a bridge or support mounted within said casing, a transmitter button mounted in said bridge, an operating arm connected to said button, said arm extending outside of said casing, with an open frame mounted exteriorly on said casing, a diaphragm mounted in said frame, said diaphragm being so mounted in said frame that extraneous sounds have access to either side of said diaphragm for the purpose of balancing out said extraneous sounds, a connection between said diaphragm and said operating arm whereby sounds that have access to but one side of said diaphragm produce their full effect upon said transmitter button.

1,430,259. SPIKE AND SCREW FOR RAILS. FERNAND RADELET and EDMOND BONNET, Brussels, Belgium. Filed Jan. 26, 1920. Serial No. 354,068. 3 Claims. (Cl. 85—28.)



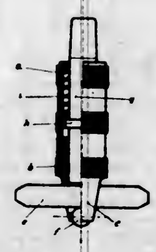
1. As a new article of manufacture, a railway spike comprising a stem adapted to be driven into a sleeper, and an enlarged head having a straight rail-engaging surface at an angle of at least 135° to said stem.

1,430,260. VISE. ALDEAN W. RAWLING, San Francisco, Calif., assignor to Georgie D. Bobo, Fairmead, Calif. Filed Apr. 3, 1922. Serial No. 548,928. 5 Claims. (Cl. 81—30.)



1. A bench vise of the foot-operated type comprising a supporting frame having a stationary ring, a turn-table mounted on the ring, a stationary jaw on the turn-table, a shank slidably mounted on the turn-table and carrying a jaw to co-operate with the stationary jaw, said shank being provided with teeth, a movable pawl carried upon the turn-table to engage the teeth on the shank, toggle links connected to the turn-table and to the pawl for actuating the latter, a foot-operated device carried on a stationary part of the frame for actuating said toggle links and a swivel connection between the foot-operated mechanism and the links permitting the turn-table and associated parts to be rotated.

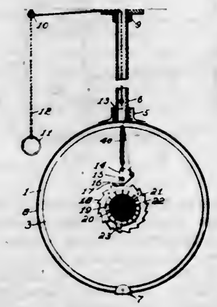
1,430,261. HARDNESS-TESTING APPARATUS. ALOIS REPPER, Kladno, Czecho-Slovakia. Filed Nov. 29, 1920. Serial No. 427,168. 5 Claims. (Cl. 265—13.)



1. In an apparatus for testing hardness, a standard member, a holder, a ball engaging the standard member, a striker mounted in said holder and engaging the standard member, and resilient means releasably retaining the ball in operative position with respect to the standard member.

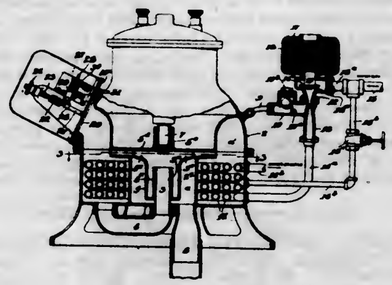
1,430,262. POOL-GAME-TALLYING DEVICE. CHARLES H. BITZMAN, Dumont, Iowa. Filed May 17, 1920. Serial No. 381,989. 2 Claims. (Cl. 235—91.)

1. In a device of the character described, a fixed shaft, a dial rotatably mounted thereon, a spring connected between said dial and shaft to exercise tension upon the dial when rotated in one direction, inner and outer ratchets having oppositely directed teeth fixed concentrically upon said dial, the outer ratchet having a portion of its circuit denuded of teeth, a resiliently controlled pawl yieldingly engaging teeth of said outer ratchet, a single detent extending radially outwardly from the said outer ratchet, a fixed stop-member extending into the path of rotation of said detent to stop the rotation of said ratchet at either limit of opposite rotations thereof, a rock-lever medially pivoted on said fixed shaft, a pool-game triangle flexibly suspended on one arm of said lever, a hanger suspended on the opposite end of said lever, a resiliently-controlled pawl mounted



on the said lever and engaging teeth on the inner ratchet, a fixed plate positioned between said ratchets and said lever, and adapted to have the last-mentioned pawl ride upon it and be disengaged from said ratchet when said lever is rocked to its limit in one direction, and a resiliently-controlled pawl positioned yieldingly in the path of rotation of said detent and having an arm positioned in the path of movement of the opposite end of said lever, the latter when moved in one direction pushing over said arm to withdraw the last-mentioned pawl from the path of movement of said detent.

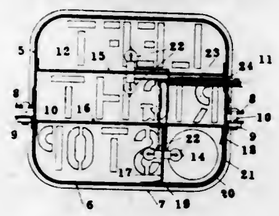
1,430,263. REFRIGERATION APPARATUS. EDWIN R. SAGE, Baltimore, Md. Filed Nov. 4, 1920. Serial No. 421,688. 10 Claims. (Cl. 62—4.)



8. In a refrigerating apparatus of the class described, a refrigerator unit having a closed compartment for a volatilizable liquid, a condenser unit having a vapor chamber communicating with said closed compartment, and having a condenser chamber, means for withdrawing vapor from said vapor chamber and condensing it in the condensing chamber, an air suction device for producing a vacuum in the system, means controlled by the temperature in the refrigerating unit for governing the action of said air suction means, a motor for operating

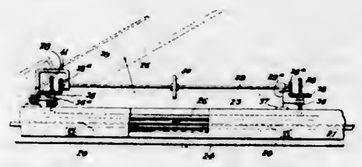
said vapor withdrawing and compressing means, and means controlled by the vacuum produced within the system for starting and stopping said motor.

1,430,264. SIGNAL DEVICE FOR AUTOMOBILES. LEONARD L. SCHMIDT, THEODORE W. BEUCHEL, and PERCY C. OTWELL, Belleville, Ill. Filed Jan. 19, 1922. Serial No. 530,331. 5 Claims. (Cl. 40—132.)



1. In a device of the class described, the combination with a two part casing, each part of said casing being provided with a partition forming a signal compartment, the space between the partitions forming a third signal compartment, a pair of plates of diaphanous material for displaying signs, said plates being held in position by the assembling of the parts of the casing, and means for illuminating said compartments.

1,430,265. DOUGH-MOLDING MACHINE. JOHN A. SEXAUER, Sidney, Ohio. Filed Feb. 9, 1921. Serial No. 443,683. 4 Claims. (Cl. 151—9.)



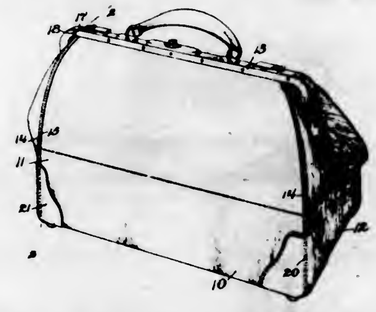
4. In a dough molding machine, the combination of a frame provided with sides, a trough between said sides, a compression board between said sides and within said trough, a pair of vertical shafts carried by said board, gears threaded upon said shafts, a hand-operated shaft having bevel gears at its ends engaging said first-mentioned gears, a frame connected to said shaft at one end thereof and supporting one of said first-mentioned gears and resting upon said sides, and a bracket pivotally mounted upon said sides and supporting the remaining end of said hand shaft and supporting the remaining first-mentioned gear, as and for the purposes set forth.

1,430,266. PROCESS FOR PRODUCING ELECTRICAL INSULATING OBJECTS. AUGUST SIDLER, Zurich, Switzerland. Filed Mar. 23, 1921. Serial No. 454,930. 4 Claims. (Cl. 106—10.)

1. A process for producing electrical insulating objects, consisting of melting natural slate, casting said slate into moulds and cooling the molten mass slowly.

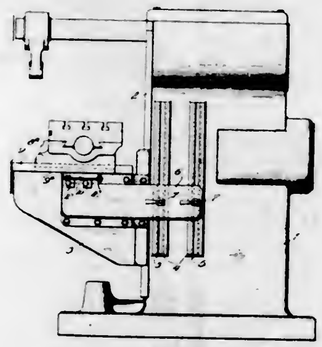
1,430,267. BAG. WILLIAM H. SMITH, Newark, N. J. Filed Aug. 26, 1921. Serial No. 495,619. 4 Claims. (Cl. 190—49.)

1. A bag having a welt in each corner thereof, and a spring wire enclosed in each welt, the top of the wire being attached to the bag frame and the bottom end of the wire terminating short of the bottom of the welt,



whereby the wire can move longitudinally in the welt when the wire is straightened by reason of opening the bag.

1,430,268. MILLING MACHINE. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Rockford Milling Machine Company, Rockford, Ill., a Corporation of Illinois. Filed Jan. 27, 1919, Serial No. 273,216. Renewed Mar. '22, 1922. Serial No. 545,900. 9 Claims. (Cl. 90—58.)



1. A milling machine having, in combination, a column, a guide on the side of the column, a knee vertically slidable upon said guide, a saddle horizontally movable upon the knee toward and away from the column, an arm rigidly secured to one side of the knee and extending rearwardly alongside of the column, means for clamping said arm to the column in any position of the knee upon said guide, a member upon the same side of the knee, and means for clamping the saddle to said member in any position of the saddle upon the knee.

1,430,269. EXTRACTION OF ZINC. WILLIAM GEORGE WARING, Webb City, Mo., assignor of one-half to Gordon Battelle, Columbus, Ohio. Filed Aug. 17, 1921. Serial No. 493,132. 2 Claims. (Cl. 23—13.)

2. In the extraction of zinc from lead and zinc containing materials by extraction with hot ammonium sulfate solution with subsequent deposition of zinc compounds by cooling said solution, the process which comprises reacting on said zinc compounds with ammonium carbonate solution to convert said zinc compounds into a zinc carbonate and form ammonium sulfate solution.

1,430,270. EXTRACTION OF LEAD AND ZINC. WILLIAM GEORGE WARING, Webb City, Mo., assignor of one-half to Gordon Battelle, Columbus, Ohio. Filed Aug. 17, 1921. Serial No. 493,133. 2 Claims. (Cl. 75—18.)

1. In the utilization of ore products containing lead and zinc values, the process which comprises extracting such products with a hot solution of ammonium sulfate to remove zinc and leave residues containing lead, treating such residues with a solution of ammonium carbonate containing NH_3 equivalent to the SO_3 present in the residues, thereby forming lead carbonates and an ammonium sulfate solution containing zinc and returning said ammonium sulfate solution for re-use in the extraction step.

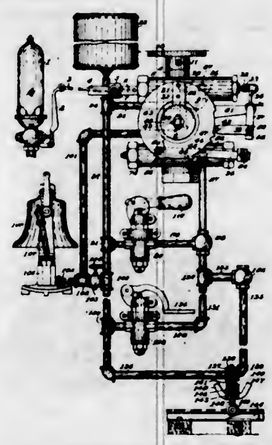
1,430,271. TREATMENT OF ZINC-LEAD FUME. WILLIAM GEORGE WARING, Webb City, Mo., assignor of one-half to Gordon Battelle, Columbus, Ohio. Filed Aug. 17, 1921. Serial No. 493,134. 3 Claims. (Cl. 134—78.)

3. In the purification of sulfur-carrying zinc-lead fume intended for pigmentary purposes, the process which comprises roasting said fume at a low temperature to remove volatile impurities and to render cadmium soluble as sulfate, and leaching with water to extract said cadmium.

1,430,272. EXPLOSIVE COMPOSITION AND THE MANUFACTURE THEREOF. EDWARD M. WERNER, Cleveland, Ohio, assignor to The Hoyne-site Explosives Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 15, 1921. Serial No. 515,268. 4 Claims. (Cl. 52—15.)

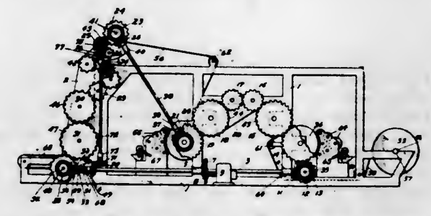
1. An explosive composition including in its ingredients, an alkali metal chlorate mixed with a solution of nitrobenzol and resin.

1,430,273. SIGNALING APPARATUS. ALBERTO I. WOODRING, Waterloo, Iowa, assignor, by mesne assignments, to National Safety Devices Company, Waterloo, Iowa. Filed Mar. 16, 1922. Serial No. 544,232. 8 Claims. (Cl. 116—65.)



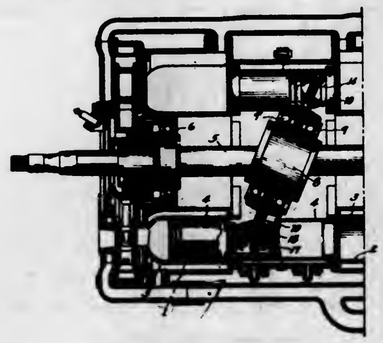
6. In a signaling apparatus, a source of fluid supply under pressure, a whistle-signal having a movable operating element, a bell signal, a motor actuated by fluid pressure operatively connected to said bell-signal, a resiliently-controlled movable body having projections, a contact-device actuated by the projections on said movable body with step-by-step movements, a starting-motor actuated by fluid pressure operatively connected to said movable body, a relay-motor having an element operatively connected to said whistle operating-element, said relay-motor being in communication with said source of fluid supply, and containing resiliently-controlled valvular means actuated by said contact device for making and breaking communication of the motor with said fluid supply and including means for exhausting such fluid therefrom after such making and breaking actuations, other means of communication between said relay-motor and said bell-motor including a valve-chamber containing a check-valve, means of communication between said starting-motor, said source of fluid supply and the said communication between the relay-motor and the bell-motor and containing a valve-chamber, an operating-valve in said chamber, and means in said chamber for exhausting said fluid from said starting-motor after operation and release of said operating-valve, and valvular means for manually controlling the communication between said source of fluid-supply and said bell-motor.

1,430,274. LOST-MOTION TAKE-UP FOR PRINTING PRESSES OR THE LIKE. HARLEY C. ALGER, Oak Park, Ill. Filed Nov. 26, 1917. Serial No. 203,982. 7 Claims. (Cl. 74—7.)



1. In a printing press or the like, a series of operatively connected gears for driving a part of the press mechanism, a gear for driving a series, a gear driven by the series and means including a shaft tending to drive the diving gear from the driven gear whereby lost motion between the gears is eliminated.

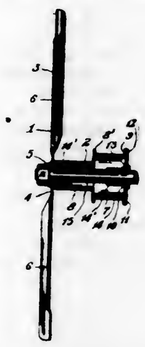
1,430,275. INTERNAL-COMBUSTION ENGINE. JOHN O. ALMEN, Seattle, Wash., assignor to Almen-Crosby Motors Company, Inc. Filed Sept. 27, 1920. Serial No. 413,092. 6 Claims. (Cl. 121—119.)



1. In an engine of the class described, the combination with a revolvable power shaft and a piston operating in a line parallel with the shaft, of a rocker plate mounted on the shaft and coacting bearing members mounted between a face of the plate and the piston end having a

sliding connection with the piston to permit movement toward and from the power shaft, and a sliding connection with the plate to prevent lateral pressure on the piston.

1,430,276. AUTOMOBILE FAN. ERNEST H. ARNOLD, Cleveland, Ohio, assignor to Henry M. Strong, Cleveland, Ohio. Filed Oct. 14, 1921. Serial No. 507,047. 7 Claims. (Cl. 170—173.)

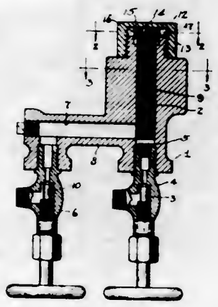


1. A hub-member for an automobile fan, comprising an integral seamless sheet of metal shaped to form a pulley portion at one end and a portion of different diameter from that of said pulley portion, at the other end; together with a separate end plate secured to said pulley portion.

1,430,277. FUSION OF ORGANIC SUBSTANCES WITH ALKALIES. FREDERICK WILLIAM ATACK, Manchester, England, and JOHN ANDERSON, St. Andrews, Scotland, assignors to The British Alizarine Company Limited, Manchester, Lancaster, England. Filed Feb. 18, 1921. Serial No. 446,151. 17 Claims. (Cl. 260—29.)

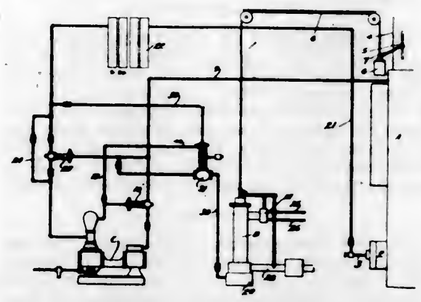
3. The process which comprises fusing an aromatic body containing less than four benzene nuclei with caustic alkali in presence of an inert non-hydroxylic diluent.

1,430,278. LIQUID-FUEL BURNER. WILLIAM J. BARBER and WILLIS J. IRVIN, Cleveland, Ohio, assignors, by mesne assignments, to The Barber Oil Burner Company. Filed Jan. 26, 1921. Serial No. 439,934. Renewed Feb. 8, 1922. Serial No. 535,090. 8 Claims. (Cl. 158—78.)



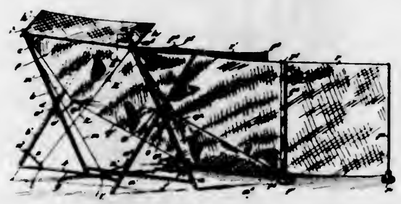
3. In a burner of the character described, the combination of a body having a straight elongated atomizing chamber, a material providing a multitude of fine interstices, completely filling said chamber for substantially its entire length, liquid fuel and air supply lines connected with one end of said chamber, and an apertured member associated with the other end thereof providing a restricted passageway for the discharge of the combustible mixture produced by the passage of said liquid fuel and air through said filling material.

1,430,279. AUTOMATIC CONTROL FOR MECHANICAL OIL-BURNING SYSTEMS. GEORGE S. BLANKENHORN, San Francisco, Calif., assignor to Coen Company, San Francisco, Calif., a Corporation of California. Filed Sept. 28, 1921. Serial No. 503,798. 7 Claims. (Cl. 158—45.5.)



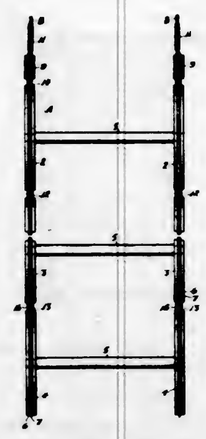
1. In a mechanical oil burning installation of the character described, the combination with the boiler, the pump governor, the oil pressure regulating valve and the damper regulator, of a diaphragm mounted in the damper regulator, a pipe delivering steam direct from the boiler to the diaphragm and exerting boiler pressure thereon, a safety regulating valve on said pipe between the boiler and the diaphragm, a casing on said valve divided into two chambers by a diaphragm, a connecting stem between the diaphragm and the valve to regulate the steam flow to the diaphragm in the damper regulator, a pipe connecting one chamber of the safety regulating valve with one side of the oil pressure regulating valve, and a second pipe connecting the other chamber with the other side of said valve, said pipes normally maintaining an unbalanced pressure in the two chambers so as to normally maintain the safety regulating valve in an open position.

1,430,280. GOLF-PRACTICE NET. JOHN ROBERTS BOLTON, Brooklyn, N. Y., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Sept. 17, 1921. Serial No. 501,264. 1 Claim. (Cl. 46—4.)



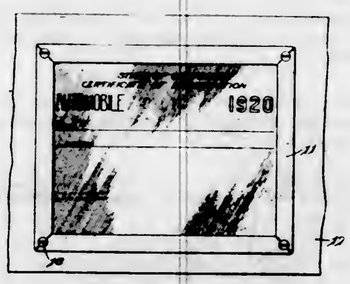
The combination with a supporting frame comprising a double set of pivoted crossed members, rods uniting and bracing corresponding crossed members, a net having its upper portion supported by said frame and having its lower end carried forward toward the feet of the player, extension nets extending forwardly from said first named net towards the player to further confine the flight of the ball, and standards having extension hooks to support said extension nets in spaced relation thereto.

1,430,281. LADDER. HARRY H. BRANN and GEORGE H. TENBROOK, San Francisco, Calif., assignors to Haviside Company, San Francisco, Calif., a Corporation of California. Filed Nov. 23, 1921. Serial No. 517,164. 3 Claims. (Cl. 228—40.)



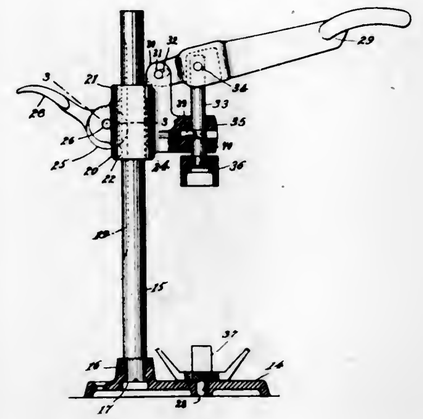
1. A ladder of the character described, comprising spaced sides, each side comprising spaced sections and a pair of cables, each section having a surrounding groove, and rungs connecting the sections of opposite sides, said cables being alternately reeved around opposite sides of said sections in the respective grooves and thereby embracing the sections, each cable crossing its companion cable between said sections and at such points of crossing being reeved one through the other in alignment with the grooves of the sections so as to insure against displacement of the cables from the grooves.

1,430,282. CARD HOLDER. BARTON C. BRIDGHAM, San Francisco, Calif. Filed Apr. 20, 1921. Serial No. 462,823. 3 Claims. (Cl. 40—10.)



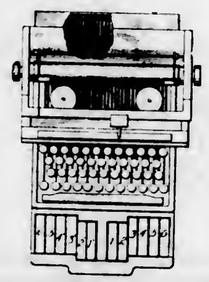
1. A card holder comprising a shallow tray to receive a card, an enclosing frame, said frame having end and side walls to surround the tray and inwardly extending flanges overlying the card, a protective covering overlying the card and lying behind the flanges of the frame and means for fastening the parts in place on a supporting surface so that the edges of the end and side walls of the frame contact throughout their length with the supporting surface and the inwardly extending flanges compress the protective covering against the card in the tray whereby to prevent the entrance of moisture or dirt to the card.

1,430,283. BOTTLE-CAPPING APPARATUS. LEO A. BRIGEL, Cheviot, Ohio. Filed Aug. 23, 1920. Serial No. 405,470. 2 Claims. (Cl. 226—84.)



1. A bottle capper comprising a base, a cylindrical standard having a key way, a head adjustable upon said standard to and from said base, a cam lever to engage the key-way in said standard to lock said head to the standard and also to prevent the head moving rotatably relative to said standard, a plunger mounted to reciprocate in a guide on said head and provided with a capping tool, and a lever pivotally connected to said head to actuate said plunger.

1,430,284. TYPEWRITING MACHINE. PAUL H. BURDICK, Geneva, Ill. Filed Sept. 3, 1920. Serial No. 407,928. 21 Claims. (Cl. 197—11.)

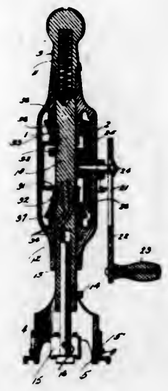


1. In a typewriting machine, a plurality of writing devices, magnets for operating said devices, keys for controlling the circuits of said magnets, and a common conductor included in all of said circuits, an automatic device connected in series with said conductor and effective to limit the time during which any magnet can remain operated.

1,430,285. VALVE GRINDER. OSCAR E. BROWN, Lancaster, Pa. Filed Dec. 24, 1919. Serial No. 347,124. 8 Claims. (Cl. 51—29.)

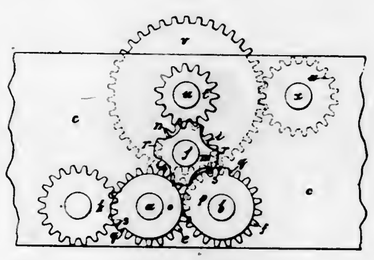
1. In a valve grinder, the combination with a hollow body, a driven gear rotatably mounted therein, and means

for oscillating it irregularly; of a shaft mounted for rotation and reciprocation in said body and extending through the gear, the shaft having a plurality of grooves



of various lengths, means in the gear for engagement with the grooves selectively to limit the descent of the shaft, a spring bearing the shaft normally downward, and valve-holding means at its lower end.

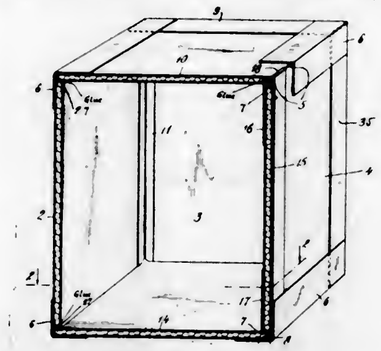
1,430,286. COTTON-COMBING MACHINE. WILLIAM CORDWELL and DYSON BARKER, Manchester, England. Filed June 4, 1920. Serial No. 386,510. 2 Claims. (Cl. 19—118.)



2. In a fibre-combing machine the means for controlling the detaching roller comprising driven wheels intermeshing with each other, section wheels compounded with the driven wheels, a wheel adapted to be driven intermittently in opposite directions by the section wheels, a star wheel fixed to the intermittently-driven wheel and cams fixed to the section wheels to lock the star wheel in position when the section wheels are out of gear with the intermittently-driven wheel and allow the latter and star wheel to rotate when the gears engage.

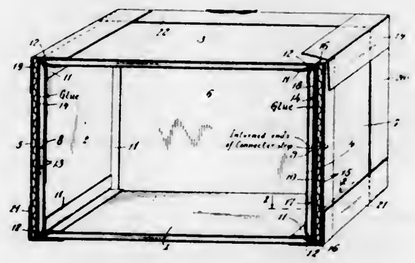
1,430,287. CONTAINER. CHARLES H. CROWELL, Brooklyn, N. Y. Filed Dec. 24, 1919. Serial No. 347,201. 7 Claims. (Cl. 229—43.)

5. The non-pilferable shipping container comprising a container body member formed of paper board material, and a cooperating cover member formed of paper board and cooperating with said container body member, the edges of one of said members having a projecting outer



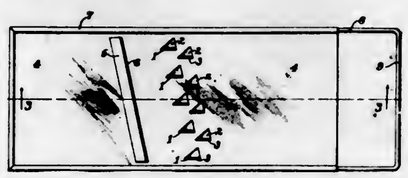
flange and having an inner concealed portion secured to the cooperating member.

1,430,288. SHIPPING CONTAINER. CHARLES H. CROWELL, Brooklyn, N. Y. Filed Dec. 24, 1919. Serial No. 347,202. 12 Claims. (Cl. 229—43.)



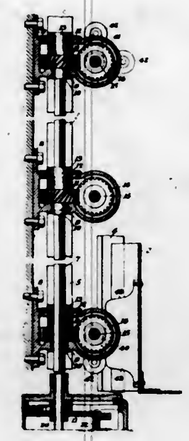
12. The shipping container comprising a container body of corrugated paper material and a cooperating top and bottom secured to said container body by connected inside portions.

1,430,289. VEGETABLE SLICER. JOHN W. DAHMER. Festus, Mo. Filed Aug. 16, 1920. Serial No. 403,805. 1 Claim. (Cl. 146—7.)



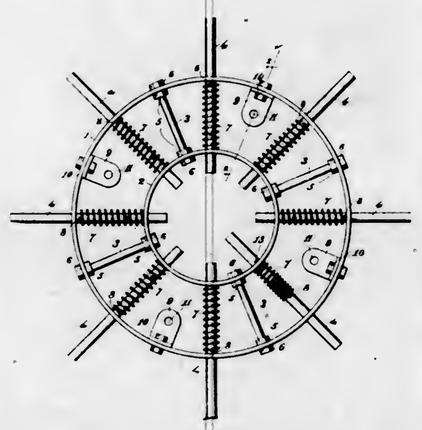
An improved vegetable slicer, composed of a single permanently flat sheet of metal having a plurality of rows of integral forwardly inclined triangular staggered slitting-teeth struck up therefrom and extending diagonally across said sheet, and an integral reinforcing diagonal cutting-knife struck up from said sheet in the rear of and closely adjacent said slitting-teeth, substantially as and for the purpose set forth.

1,430,290. CONTROLLING SYSTEM. LOUIS DE MARKUS, Montrose, Pa., assignor to McKenna Braas & Manufacturing Company, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1921. Serial No. 511,412. 15 Claims. (Cl. 187—29.)



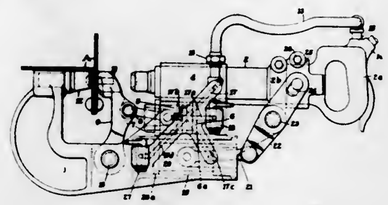
5. In an elevator control, a cage, a plurality of controlling devices for controlling the positioning of the cage, mechanical connections between said devices, and a circuit making device actuated by said mechanical connections, substantially as described.

1,430,291. TRACTION-INCREASING DEVICE. BENJAMIN E. DENSON, Columbus, Ga. Filed May 27, 1922. Serial No. 564,048. 3 Claims. (Cl. 305—51.)



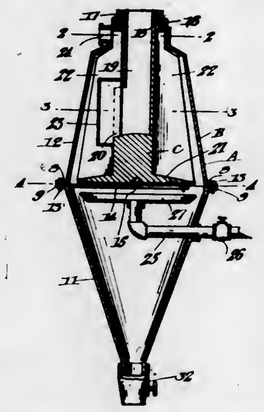
3. A traction increasing device for elastically-tired wheels comprising concentric spaced rings, means rigidly connecting the rings, means for detachably connecting the rings to a wheel, radially-disposed pins slidingly mounted in the rings for moving to and from a ground-engaging position, cushioning means stressing the pins toward such ground-engaging position, and means for locking the pins in their inner or ground-non-engaging position.

1,430,292. WORK CLAMPING AND CUSHIONING ATTACHMENT FOR PNEUMATIC HAMMERS. THOMAS A. DICKS, Wilkinsburg, Pa. Filed Apr. 3, 1920. Serial No. 371,036. 9 Claims. (Cl. 78—52.)



1. A work clamping device for pneumatic hammers, comprising a frame in which the hammer is mounted, an anvil on said frame, a clamping lever adapted to clamp the work against the anvil, a cylinder on the frame, a differential piston in said cylinder, an actuating connection between the piston and lever, and means for admitting air to said cylinder at opposite sides of the piston, substantially as described.

1,430,293. GRAIN AND SEED GRADER AND SEPARATOR. EDGAR DUNCOMBE EDDY, Ottawa, Ontario, Canada. Filed Feb. 13, 1920. Serial No. 358,344. 11 Claims. (Cl. 83—82.)

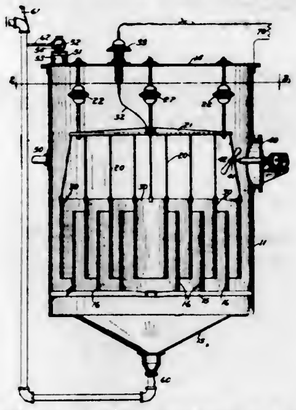


1. An apparatus for grading and cleaning grain and seeds comprising a casing, a rotor rotatably mounted in the casing, peripheral vanes on the rotor, means for delivering stock to be treated axially of the rotor, means for delivering liquid to the casing, and curvilinear baffle walls eccentrically located between the vanes.

1,430,294. DEHYDRATOR. HAROLD C. EDDY, Los Angeles, and JOHN T. WOATHINGTON, Whittier, Calif., assignors to Petroleum Rectifying Company of California, San Francisco, Calif., a Corporation of California. Filed Mar. 2, 1921. Serial No. 449,061. 6 Claims. (Cl. 204—24.)

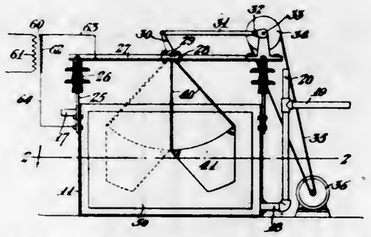
1. An apparatus for de-emulsifying petroleum emulsions

comprising a cylindrical tank; a cylindrical electrode inside of and concentric with said tank; and mechanical



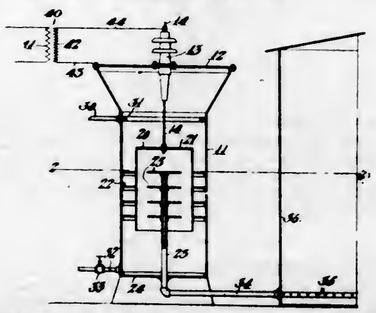
means for imparting a whirling movement to a body of emulsion carried in said tank.

1,430,295. ADJUSTABLE FIELD DEHYDRATOR. HAROLD C. EDDY, Los Angeles, Calif., assignor to Petroleum Rectifying Company of California, San Francisco, Calif., a Corporation of California. Filed June 25, 1921. Serial No. 480,349. 8 Claims. (Cl. 204—24.)



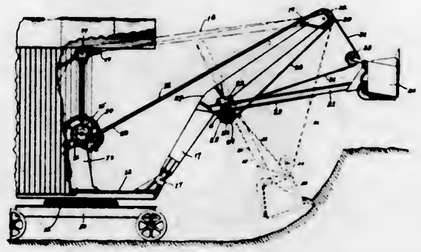
1. In a dehydrator, the combination of: a moving electrode formed of a flat plate; and means for moving said plate in its own plane.

1,430,296. DOUBLE FIELD DEHYDRATOR. HAROLD C. EDDY, Los Angeles, Calif., assignor to Petroleum Rectifying Company of California, San Francisco, Calif., a Corporation of California. Filed June 25, 1921. Serial No. 480,351. 8 Claims. (Cl. 204—24.)



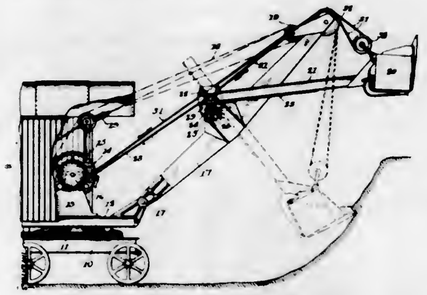
1. A dehydrator comprising: a tank: an electrode concentric with said tank and having a central opening; and a member electrically connected to said tank and projecting concentrically into the opening in said electrode.

1,430,297. ROPE-THRUSTING SHOVEL. WALTER FERRIS, Milwaukee, and SVANTE R. W. M. BAGER, South Milwaukee, Wis., assignors to Bucyrus Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 24, 1921. Serial No. 455,303. 17 Claims. (Cl. 214—135.)



1. In a power shovel, the combination of a rotatabel platform, two independently rotatable drums mounted thereon, a boom carried by said platform, a dipper and dipper handle carried by said boom, a drum mounted beneath said boom and associated with said dipper handle, a cable connecting one of said first named drums with the drum on said boom, and a dipper hoisting cable connecting the other of said first named drums with the drum on said boom.

1,430,298. ROPE-THRUSTING SHOVEL. WALTER FERRIS, Milwaukee, and SVANTE R. W. M. BAGER, South Milwaukee, Wis., assignors to Bucyrus Company, South Milwaukee, Wis., a Corporation of Wisconsin. Continuation of application Serial No. 322,261, filed Sept. 8, 1919. This application filed Aug. 3, 1921. Serial No. 489,408. 26 Claims. (Cl. 214—135.)

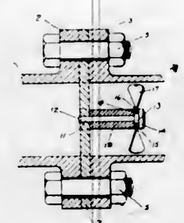


8. In a power shovel, means for thrusting the dipper against the work, comprising a dipper handle, a shipper shaft associated with it, a drum thereon and cables wound thereabout in opposite directions and extending away from the drum and separate means under control of operator for controlling the operation of said cables.

1,430,299. MIXING DEVICE. CARL E. FLATTER and ORA E. CHRISTOPHER, Anderson, Ind., assignors of one-third to Luther Flatter, Muncie, Ind. Filed May 29, 1920. Serial No. 385,270. 1 Claim. (Cl. 48—180.)

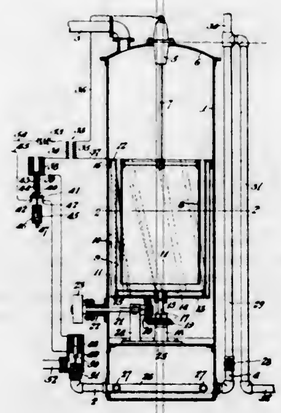
A mixing device for internal combustion engines comprising a relatively thin washer member, a spider formed centrally thereof, a spindle extending axially through said spider and having its end upset for securing it to the spider, an enlarged head formed at the opposite end of said spindle, an integral enlarged portion on said spindle of greater diameter than the spindle and of less diameter than the enlarged head, a fan

mounted on said enlarged portion of the spindle, a ring on either side of said fan, pins extending transversely through said rings and the interposed portion of said



fan, and a bushing surrounding said spindle and extending from said spider to said fan for holding the fan on the enlarged portion of said spindle and adjacent said enlarged head.

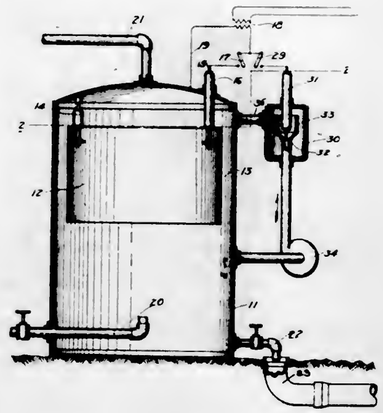
1,430,300. DEHYDRATOR. FORD W. HARRIS, Los Angeles, Calif., assignor to Petroleum Rectifying Company of California, San Francisco, Calif., a Corporation of California. Filed Sept. 7, 1920. Serial No. 408,694. 5 Claims. (Cl. 204—24.)



1. In a dehydrator for petroleum emulsions, the combination of: a stationary tank; a stationary inner electrode in said tank, said inner electrode being insulated from said tank; an outer electrode, electrically connected to said tank and situated between said tank and said stationary inner electrode; means for rotating said outer electrode; and means for impressing an electromotive force between said inner electrode and said outer electrode.

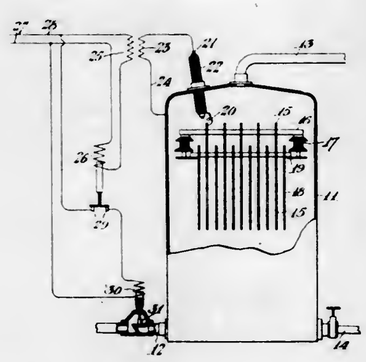
1,430,301. STARTER FOR ELECTRICAL DEHYDRATORS. FORD W. HARRIS, Los Angeles, Calif., assignor to Petroleum Rectifying Company, San Francisco, Calif., a Corporation of California. Filed Nov. 1, 1920. Serial No. 420,980. 4 Claims. (Cl. 204—24.)

1. The process of dehydrating emulsions which comprises circulating emulsion from a bulk supply through an electric field at such a velocity that the formation of permanent short circuit in that field is prevented and thereafter subjecting the coarse emulsion so formed in



the bulk supply to the action of a second electric field in which the disruption of the current paths occurs automatically without mechanical agitation.

1,430,302. METHOD OF AUTOMATIC DEHYDRATION. FORD W. HARRIS, Los Angeles, Calif., assignor to Petroleum Rectifying Company, a Corporation of California. Filed May 31, 1921. Serial No. 473,875. 4 Claims. (Cl. 204—24.)

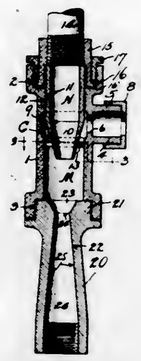


1. A dehydrator comprising a tank: electrodes in said tank; wires supplying electric current to said electrodes; an inlet pipe supplying oil to said tank; a valve in said inlet pipe; and means for closing said valve upon failure of the current supply.

1,430,303. PRESSURE-MIXING DEVICE FOR RAW WATER AND OZONE. HARRY BUXTON HARTMAN, Scottdale, Pa., assignor to Electric Water Sterilizer and Ozone Company, Scottdale, Pa., a Corporation of Pennsylvania. Filed Jan. 24, 1920. Serial No. 353,860. 3 Claims. (Cl. 261—76.)

1. A pressure mixing device for ozone water purifying apparatus including a body having a lateral ozone in-

take port, a Venturi member fitted to one end of the body, a raw water nozzle fitting into the other end of

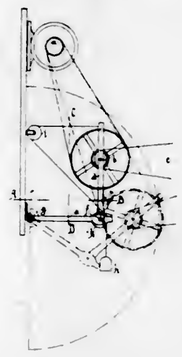


the body and having its discharge end projecting beyond the ozone inlet port, and a distributing baffle ring carried by the end of the nozzle.

1,430,304. MANUFACTURE OF ACETIC ANHYDRIDE. HENRY DREYFUS, London, England. Filed May 24, 1921. Serial No. 472,283. 25 Claims. (Cl. 260—123.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

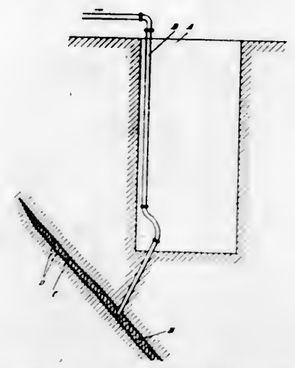
1. Process for the manufacture of acetic anhydride comprising bringing a salt of acetic acid into reaction with a pyrosulfate.

1,430,305. TRANSMISSION MEANS. EDUARD EUCKEN, Alzey, Germany. Filed Aug. 21, 1920. Serial No. 405,189. 1 Claim. (Cl. 64—52.)



Improved means for the transmission of power from a source of power, which is preferably mounted upon the same base of foundation as said means, to a working machine which is mounted at approximately right angles to said base of foundation comprising a counter-shaft, an oscillating frame in which said counter-shaft is mounted, an oscillating support for said frame of the counter-shaft, and means of transmission uniformly stretched automatically through pull resulting from the weight of the supporting system, substantially as described and shown and for the purpose set forth.

1,430,306. METHOD OF MAKING FISSURED WATER-BEARING STRATA WATER-TIGHT. ALBERT FRANÇOIS, Hatfield, near Doncaster, England. Filed Dec. 9, 1920. Serial No. 429,554. 6 Claims. (Cl. 61—36.)



1. A process for making fissured water-bearing strata watertight in cases where cement milk is injected and when it is found that the cement does not normally penetrate the fissures consisting in stopping the cementation step, injecting into the fissures a mixture in the form of a liquid holding a gelatinous precipitate in solution and thereafter resuming the injection of cement.

1,430,307. COIN AND STAMP BOX. JOHN R. HALLEY, Nashville, Iowa. Filed May 20, 1921. Serial No. 471,111. 2 Claims. (Cl. 232—33.)



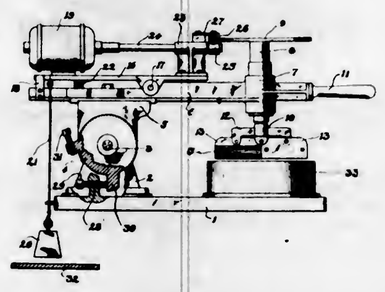
1. In a coin box, a casing having side walls of trapezium form closed at the top and back and open at the front and bottom, the side walls at the front opening being bent at right angle to reinforce the same and a cover hinged to the top of the box to close the front opening.

1,430,308. MILK-BOTTLE CAP. EDITH M. HILL, Melrose, Mass., assignor, by mesne assignments, to John E. Hill, Melrose Highlands, Mass. Filed Apr. 29 1920. Serial No. 377,646. 1 Claim. (Cl. 215—51.)



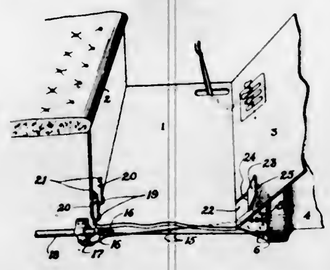
A milk bottle cap comprising a disk-shaped portion to close the neck of the bottle, said disk-shaped portion having integral therewith a resilient arm extending upwardly and inwardly from one edge of said disk and then outwardly, downwardly and inwardly to a point below said disk, the extremity of said arm being bent outwardly to form a finger piece and said arm having a curve of such shape that when the cap is closing the neck of the bottle said arm will clear the bead of the bottle neck and the lower end of the arm will engage the inclined under face of said bead whereby downward pressure on the finger piece causes such lower end to slide downwardly on the inclined face of the bead thereby causing the disk to tilt about its edge.

1,430,309. SPREADER. FRANK M. KINNARD, Sebring, Ohio, assignor of one-half to Charles L. Sebring, Sebring, Ohio. Filed Mar. 24, 1922. Serial No. 546,293. 12 Claims. (Cl. 25—26.)



1. A spreader including a pivoted arm, a rotatable spreader tool carried by the arm, means for rotating the tool when the arm is lowered and means for automatically stopping the rotation of the tool when the arm is raised.

1,430,310. OIL-TESTING APPARATUS. CLARENCE A. MCINTOSH, Canton, Ohio. Filed Mar. 25, 1921. Serial No. 455,693. 1 Claim. (Cl. 180—77.)



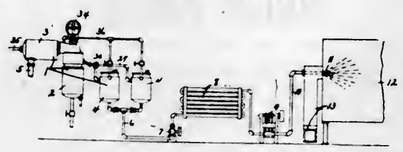
In an automobile, an oil testing apparatus comprising a pair of valves connected to the rear end portion of the crank case of the automobile engine, one of said valves being located beneath and to one side of the other valve, and having a nipple extending to a point beneath the other valve, means for normally closing the valves, flexible members connected to the valves and extending to a point beneath the driver's seat, a window in the dashboard of the automobile located in a position to permit observation of the valves from the driver's seat, and a cover normally closing said window.

1,430,311. HARROW. EDWARD J. MANN, Rock Township, Woodbury County, Iowa. Filed Sept. 20, 1921. Serial No. 502,057. 5 Claims. (Cl. 55—84.)



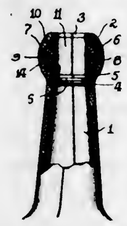
1. A harrow draw-bar embodying an intermediate section, end sections, transverse pivot members on the end portions of the former section, on which the end sections swing vertically, and supporting strips pivoted coaxially with said members and secured to the end sections to prevent their declining below a determinate plane.

1,430,312. DESICCATED BUTTERMILK. IRVING S. MERRELL, Syracuse, N. Y., assignor to Merrell-Soule Company, Syracuse, N. Y., a Corporation of New York. Original application filed Apr. 8, 1916, Serial No. 89,901. Divided and this application filed June 10, 1920. Serial No. 387,937. 3 Claims. (Cl. 99—5.)



3. As a new product, a soluble buttermilk powder having upon return to liquid form, a smooth, uniform appearance, and the dissolution of whose constituents upon return to liquid form will be arrested.

1,430,313. BOTTLE CLOSURE. VLADA MILLITY, Detroit, Mich. Filed Oct. 25, 1920. Serial No. 419,456. 1 Claim. (Cl. 215—76.)



The combination of a bottle neck having a head provided with an axial opening and a slot in said head disposed in a plane parallel to the longitudinal axis of the bottle neck and segment shaped in elevation, a closure member trunnioned in said bottle neck head and having an opening adapted to aline with the head opening, a coiled spring at one of the trunnions of said closure member maintaining said closure member normally closed with the axis of its opening at an angle to the axis of the bottle neck, and a handle carried by said closure member at the other trunnion thereof and extending through the slot of said bottle neck head.

1,430,314. ADVERTISING DEVICE. VIVIAN STREATFEILD MORLEY, Tankerton, England. Filed Aug. 17, 1920. Serial No. 404,055. 6 Claims. (Cl. 40—137.)



1. In an advertising device, the combination of two screens one of which is provided with a plurality of parallel opaque lines arranged thereon to obtain intervening clear spaces while the other screen is provided with a plurality of color lines of at least two different alternate colors arranged in more than one series, the lines of one series being inclined at a small positive angle, and the lines of another series being inclined at a small negative angle to those of the first mentioned screen.

1,430,315. ADVERTISING DEVICE. VIVIAN STREATFEILD MORLEY, Tankerton, England. Filed Aug. 17, 1920. Serial No. 404,056. 7 Claims. (Cl. 40—137.)

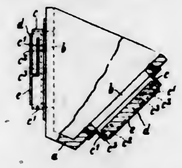
1. In an advertising device, the combination of two screens one of which is provided with a plurality of par-

allel opaque lines arranged thereon to obtain intervening clear spaces while the other screen is provided with a plurality of color lines of at least two different alternate



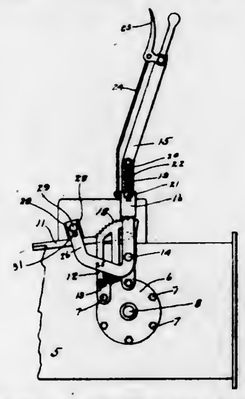
colors arranged in more than one series, the lines of one series being inclined at a small positive angle, and the lines of another series being inclined at a small negative angle to those of the first mentioned screen.

1,430,316. OPTICAL SQUARE. PAUL NICHTERLEIN, Jena, Germany, assignor to the Firm Carl Zeiss, Jena, Germany. Filed Aug. 8, 1921. Serial No. 490,723. 2 Claims. (Cl. 88—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat L., 1313.)



1. In an optical square composed of two silvered glass plates and an intermediate member connecting the said plates, springs connecting the said glass plates in at least three places to the said intermediate member, the said springs being yielding only in a plane parallel to the plane of the reflecting surface of the plate.

1,430,317. CLUTCH-CONTROL LEVER. CLARENCE T. NORTON, Merrill, Iowa. Filed Mar. 26, 1920. Serial No. 368,836. 1 Claim. (Cl. 74—89.)



A clutch-control for a motor-vehicle having a supporting part, a clutch-lever-shaft and a foot-lever on the shaft, comprising a quadrant positioned adjacent the side of the foot-lever and mounted therebelow on the supporting part, a hand-lever fulcrumed on the quadrant below the clutch-lever-shaft, a part on the lower end of the hand-lever extended rearwardly and upwardly, a lug adjustably secured on the latter part, and a lateral arm on the lug operatively engageable with the foot-lever.

1,430,318. CULINARY UTENSIL. CHARLIE OLSON, St. Louis, Mo. Filed Aug. 15, 1921. Serial No. 492,291. 2 Claims. (Cl. 107—50.)

1. A culinary utensil comprising a combination of a dough-roller, a pair of handles, a biscuit-cutter carried by one of said handles, a doughnut-cutter carried by the other handle, a grater formed on the end of the roller, and a measure seated in the opposite end of the roller,



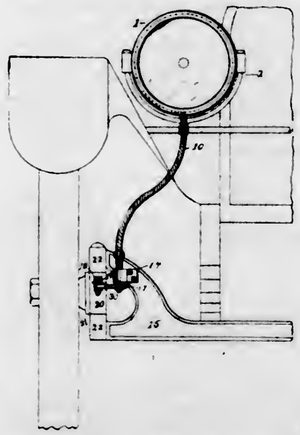
and a locking means for supporting the biscuit-cutter and doughnut-cutter in position on the ends of the roller, substantially as specified.

1,430,319. SELF-ALIGNING HIGH-SPEED BALL-RACE BEARING. JOHN W. PARKER, Detroit, Mich. Filed July 11, 1921. Serial No. 483,943. 6 Claims. (Cl. 64—36.)



1. In a ball bearing, an inner race ring and an outer race ring, one of said race rings having a radiused groove therein and the other an angled groove therein, a plurality of balls between said race rings and adapted to run in said grooves, two points of contact for said balls on each groove, said points of contact on the groove in the outer raceway being at different angles to the center lines of the balls.

1,430,320. DIRIGIBLE HEADLIGHT FOR AUTOMOBILES. NORMAN E. PHILLIPS and JAMES E. MATHERS, Washington, D. C. Filed Feb. 11, 1922. Serial No. 535,831. 4 Claims. (Cl. 240—41.)



1. In combination with an automobile and the steering knuckles thereof, a rack carried by one of said knuckles,

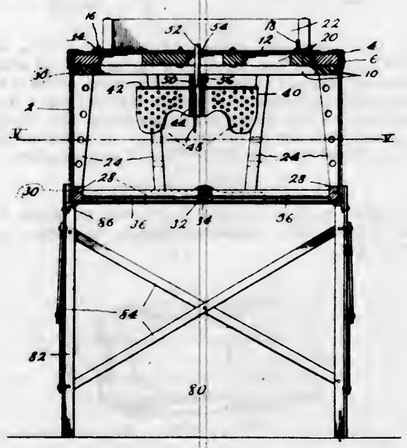
a lamp case rigidly mounted on said automobile, a reflector mounted for oscillating movement within said lamp case, a flexible shaft connected to said reflector having a pinion mounted thereon and adapted to mesh with the rack carried by the knuckle and to actuate the oscillation of the reflector within the case, with, but at a greater angle than the steering knuckle.

1,430,321. ARTICULATED STAY BOLT. ARTHUR F. PITKIN, Schenectady, N. Y. Filed Feb. 27, 1922. Serial No. 539,665. 2 Claims. (Cl. 85—1.5.)



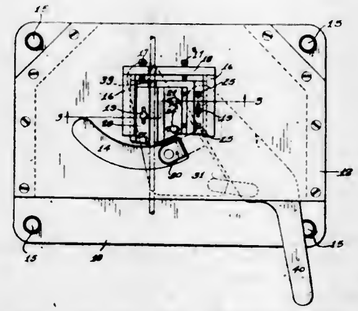
1. In an articulated stay bolt structure, the combination of a plug, adapted to be secured in an outer boiler sheet, said plug having a tapered threaded opening; an outer bolt section having a tapered threaded shank, fitting said opening and provided with a ball at its inner end, and a main bolt section having a socket.

1,430,322. WASHING MACHINE. RUDOLPH RAINALTER, Kansas City, Mo. Filed Jan. 28, 1920. Serial No. 354,601. 1 Claim. (Cl. 259—107.)



In a washing machine, a rectangular tub, a lid to said tub, a frame in the upper portion of the tub to reinforce the same, cross bars in the lower corners of the tub where the side walls join the bottom, baffle plates arranged in pairs and secured at their ends in said frame and the cross bars, a coupling, rods connected to the coupling and engaging the cross bars to retain the same in place, and an agitator within the tub to rub articles being washed against the baffle plates and said rods.

1,430,323. DEVICE FOR BENDING METAL RODS OR TUBES. JAMES N. REYNOLDS, Cleveland, Ohio. Filed Mar. 5, 1921. Serial No. 449,815. 3 Claims. (Cl. 153—16.)

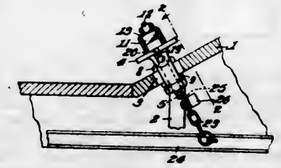


1. In a rod bending machine, a frame having an upper plate, guide members mounted on said plate and forming a guideway for rods to be bent, there being a slot in said plate adjacent the end of said guideway, a pivoted member mounted to move beneath said plate and having a bending roll extending through said slot, means for moving said bending roll in the slot to bend a rod held in said guideway, said means including a hand lever pivoted on said frame and means connecting the hand lever to the pivoted member whereby the latter may be actuated.

1,430,324. PROCESS OF MAKING ESTERS. WORTH H. RODEBUSH, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed May 8, 1919. Serial No. 295,748. 7 Claims. (Cl. 23—24.)

6. The process of producing an ester comprising heating between 160 and 180° C. under a pressure of about 150 lbs. per sq. in. ethylene dischloride and a salt of a fatty acid in the presence of ethyl alcohol.

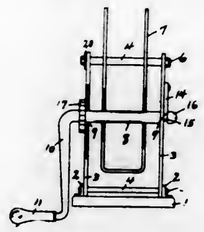
1,430,325. AUTOMOBILE LOCKING DEVICE. JAMES F. ROSE, Bellaire, Ohio, assignor of one-half to Fred Del Vecchio, Bellaire, Ohio. Filed Jan. 26, 1922. Serial No. 531,887. 2 Claims. (Cl. 70—128.)



1. A lock for a pedal-carrying control lever of an automobile, comprising a member having a depending threaded stem mounted in a floor board adjacent to said lever with the lower end thereof located beneath said floor board, means for anchoring said stem against elevation, a locking bar pivotally carried by said member and adapted for vertical swinging movement to and from a

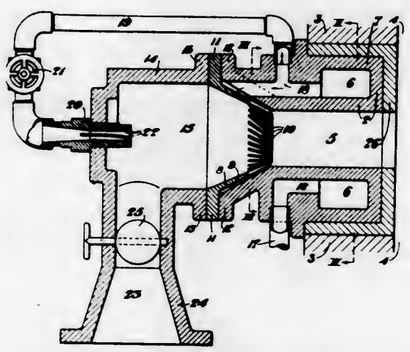
position in which an end portion thereof occupies overlying seated relation to the pedal of the control lever when the latter is depressed, and rotary key-operated means whereby said locking bar is locked in said seated position in interengaged relation with said member.

1,430,326. SPRING-REWINDING MACHINE. DOMENICK RUFF, Youngstown, Ohio. Filed Sept. 14, 1921. Serial No. 500,668. 1 Claim. (Cl. 153—64.)



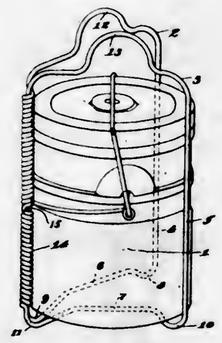
In a device of the class described, two vertical side plates, four bolts holding said side plates in a vertical position, a shaft journaled in said side plates, a stud on said shaft for the purpose of holding a spring end, a keeper member registering with a circular groove on the outer end of said shaft, a ratchet secured to said shaft, a dog registering with said ratchet, crank and handle for said shaft, in combination with a U-shaped guide member supported between the two side plates by said shaft, substantially as described for the purpose set forth.

1,430,327. DEVICE FOR EFFECTING THE COMBUSTION OF FUEL. ADELBERT SAUER, Pittsburgh, Pa. Filed Sept. 5, 1919. Serial No. 321,970. 10 Claims. (Cl. 158—99.)



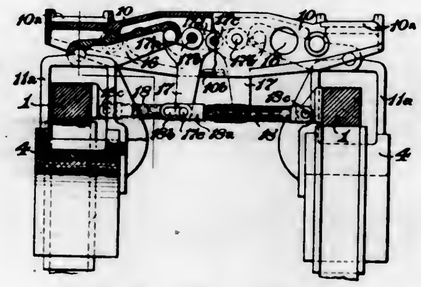
6. A device for effecting the combustion of fuel comprising a shell having an air inlet and a coniform discharge end, said discharge end being provided with an annular series of tangentially arranged spiral slots therein, a casing connected with said shell, a flared portion on said casing which surrounds said coniform discharge end but which is spaced therefrom to form a passageway, an annular heating chamber in said casing, means for supplying fluid to said annular heating chamber, means for permitting the passage of fluid from said chamber to said passageway, a nozzle at the rear of said shell, and a by-pass connecting said nozzle with said heating chamber.

1,430,328. JAR HOLDER. GEORGE H. SCOTT, Bridgewater, Mass. Filed Jan. 12, 1921. Serial No. 436,663. 10 Claims. (Cl. 53—1.)



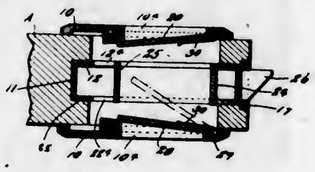
1. A jar holder comprising integrally united elements resiliently engageable with the side walls of a jar at a series of separated points, said elements being foldable whereby to lie substantially in the same plane.

1,430,329. LATERAL-MOTION APPLIANCE FOR LOCOMOTIVE DRIVING BOXES. FRANK F. SCOVILL, Schenectady, N. Y. Filed July 27, 1922. Serial No. 577,835. 9 Claims. (Cl. 105—80.)



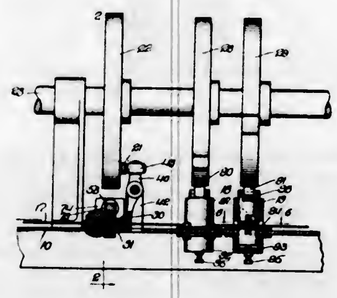
1. In a locomotive engine, the combination of a side frame; a driving box, fitted, with the capacity of lateral movement, therein; a spring supporting beam, which is vertically movable relatively to the driving box; and a lever, fulcrumed on the spring supporting beam and exerting bearing thereon and on the driving box, by which pressure is transmitted from one to the other of said members.

1,430,330. LATCH. JAMES L. SEAVER, St. Louis, Mo. Filed Feb. 1, 1921. Serial No. 441,547. 10 Claims. (Cl. 292—145.)



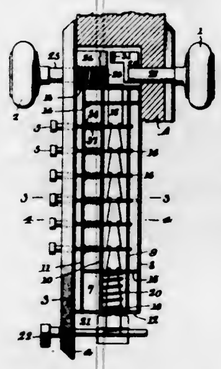
1. In a door latch of the class described, a housing provided with oppositely disposed hand openings, a rectangular frame slidably mounted in said housing and adapted to be manually operated through said hand openings and a latch bar fixed to said flange and designed when retracted to occupy a position wholly within said housing.

1,430,331. HAIRPIN-CRIMPING MACHINERY. HOMER P. SMITH, Appleton, Wis., assignor to Margaret Smith, Appleton, Wis. Filed Feb. 20, 1922. Serial No. 537,780. 18 Claims. (Cl. 140—87.)



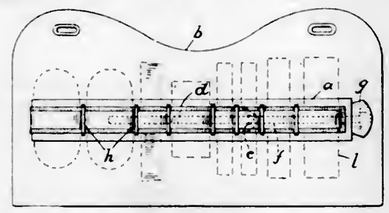
1. An improved process for making hair-pins with angularly displaced crimps on the respective prongs of said hairpin which consists in gripping the wire for the crimping operation on both prongs of said hairpin, then crimping one prong of said hairpin, then rotating the said wire through the desired angular displacement and thereafter crimping the second prong of said hairpin.

1,430,332. COMBINATION LOCK. HURLEY H. SMITH, Elkhart, Ind. Filed Mar. 3, 1922. Serial No. 540,704. 6 Claims. (Cl. 70—54.)



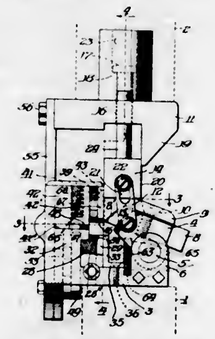
1. A combination lock comprising a frame, a locking bolt mounted to slide longitudinally in said frame and provided with shoulders at points intermediate its length, plates mounted to slide transversely in said frame and having cut-out portions adjacent said shoulders, certain of said cut-out portions registering with the locking bolt and others being out of register and having a portion of the plate underlying the shoulder to prevent movement of the bolt to unlocked position, a spring for normally holding the bolt in inoperative position, springs holding the plates in normal position, and finger keys for moving the operative plates to inoperative position.

1,430,333. MEANS FOR HOLDING FITTINGS IN BAGS. WILLIAM B. SMITH, Chicago, Ill. Filed Sept. 2, 1921. Serial No. 498,014. 7 Claims. (Cl. 190—41.)



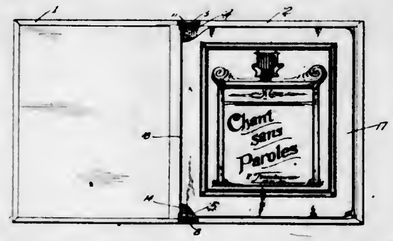
1. Means for holding fittings in a bag comprising a base, a strip secured to said base, a band secured at one end and overlying said strip, the free end of said band extending beneath said strip, and means attached to said band whereby said free end may be drawn beneath said strip in one direction and said means moved relative to said band in the other direction.

1,430,334. NUT-CASTELLATING MECHANISM. ARTHUR SPEAR, Chicago, Ill. Filed Mar. 26, 1920. Serial No. 369,117. 9 Claims. (Cl. 10—72.)



1. In a device of the kind described, a gang punch mounted upon bearings to swing up and down, a die device for holding a plurality of crowned nuts with their crowned ends facing the punch, the punch provided with forwardly projecting cutters, one for each nut, the cutters adapted to swing freely into the bores of the nuts and cut notches therein by pressing outwardly against a suitable die, and pressure means individual to each nut adapted to firmly seat the nut on the die, substantially as described.

1,430,335. MUSIC HOLDER. HERMAN STENGEL, Los Angeles, Calif., assignor to Anthony J. Otten. Filed Sept. 30, 1920. Serial No. 413,786. 1 Claim. (Cl. 129—39.)



A music holder comprising two cover boards, a stiff back hingedly connecting the cover boards, metal attaching

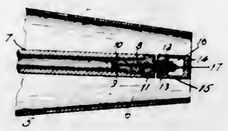
plates secured to the inner face of the stiff back near its ends, perforated abutments extending from the attaching plates, stops at the left sides of the abutments, said stops extending inwardly beyond the face of the stiff back, and cords inserted through the perforations and connecting the abutments.

1,430,336. FISH BAIT OR LURE. WILLIAM A. STOLLEY, Dowagiac, Mich., assignor to Jas. Heddon's Sons, Dowagiac, Mich. Filed Dec. 26, 1919. Serial No. 347,413. 10 Claims. (Cl. 43—46.)



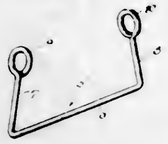
1. In a fish bait or lure, the combination with a body provided with a downwardly and forwardly directed collar at its front end, of a double hook having upwardly directed points, hook attaching means whereby the hook is loosely and nonrotatably supported on the under side of said body at the rear end thereof, a streamer lying normally between the points of the hook, and a cruciform attaching device for said streamer having its lower longitudinal arm engaged with the front end of the streamer and its upper longitudinal arm engaged with the eye of the hook and its transverse arms clamped about the shank of the hook.

1,430,337. OIL BURNER. MORRIS GARDNER TALCOTT, Talcottville, Conn. Filed Nov. 24, 1919. Serial No. 340,216. 4 Claims. (Cl. 158—76.)



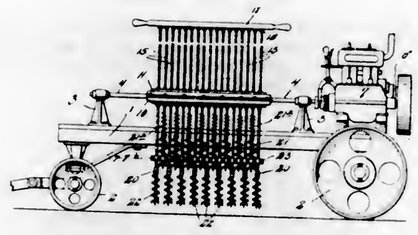
1. A burner comprising a fuel supply pipe, an air tube surrounding said fuel supply pipe and having an unobstructed open mouth concentric with said supply pipe, and a spreader having an unobstructed receiving recess in its under surface to receive the oil separately from the air, and force such oil, as it passes from said pipe, backwardly into the air currents in the open mouth of said air tube.

1,430,338. MEANS FOR SECURING SHINGLES TO ROOFS. JOHN A. TOPPING, Chicago, Ill. Filed Mar. 18, 1921. Serial No. 453,434. 4 Claims. (Cl. 108—9.)



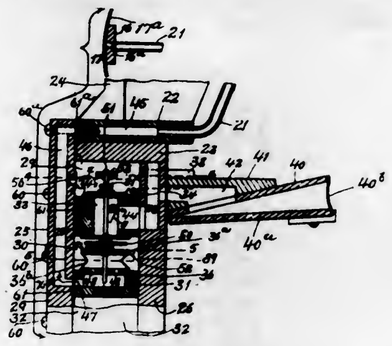
3. A shingle holding means comprising a one-piece device having a horizontal member and ends disposed at substantial right angles thereto, said ends each having a nail-receiving eye.

1,430,339. BORING MACHINE. HILRY M. TUCKER, Fort Worth, Tex. Filed Apr. 2, 1921. Serial No. 457,983. 3 Claims. (Cl. 144—110.)



1. In a boring and cutting machine, the combination of a support, a shaft mounted in bearings thereon, worm gears mounted on the shaft to turn therewith and be capable of movement longitudinally of the shaft, a casing mounted on the shaft and capable of longitudinal movement thereon, a battery of shafts extending through the casing and adapted to rotate and move endwise in the casing, means connecting the said shafts of the battery, worm gears keyed to the shafts of the battery, and through which the said shafts are endwise movable, said worm gears being arranged in the casing and intermeshed with the first-named worm gears, and augers carried by the forward portions of the shafts of the battery.

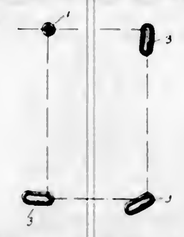
1,430,340. AUTOMATIC MECHANISM FOR PLAYER PIANOS. WILLIAM B. TUNSTALL, Worcester, Mass. Filed Jan. 28, 1921. Serial No. 440,589. 14 Claims. (Cl. 84—50.)



14. A pneumatic player mechanism having a vacuum chamber, and power pneumatics and valve mechanism for effecting and controlling the striking of notes, characterized by seats for the said valves between the valves and the conduits which connect with the power pneumatics whereby the valves, to open, move in the same direction as that in which air flows when a power pneumatic operates.

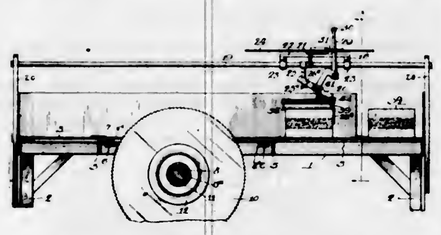
1,430,341. CARPET PROTECTOR. CLARA BELL WALSH, St. Louis, Mo. Filed Jan. 16, 1922. Serial No. 529,568. 1 Claim. (Cl. 45—137.)

A floor protector comprising a plurality of separate and independently attachable crater-like members, one of which serves as a pivotal point about which an article of furniture, whose legs are supported by said members, may be moved, the other of said members being



curved and elongated to accommodate the swinging movement of the article of furniture about its pivotal point.

1,430,342. MACHINE FOR CUTTING BRICK ICE CREAM. WILLIAM C. WALSH, Chicago, Ill. Filed July 22, 1921. Serial No. 486,702. 17 Claims. (Cl. 107—22.)



1. In a machine of the character described, the combination of a table, a saw having a cutting edge above the surface of the table, a carriage comprising a brick engaging member, and means for lowering said brick engaging member into brick engaging position during the movement of the carriage in one direction, and for raising the same from brick engaging position during its movement in the opposite direction.

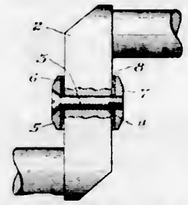
17. In a machine of the character described, the combination of a table, a spindle beneath said table, a plurality of circular saws mounted in predetermined spaced relation along said spindle, a portion of the saw blades extending through slots in the table surface, a carriage movable above the surface of the table parallel with the planes of said saws, and comprising brick engaging members suspended therefrom and consisting of a series of pusher plates located in horizontal alignment with the spaces between said saws, and a lever shiftable relative to said carriage in the movement thereof in opposite directions to raise and lower said plates from and into brick engaging position, and means interposed between said lever and pusher plates for exerting pressure indirectly to said plates.

1,430,343. HUSKING PEG. AUGUST S. WANNEMACKER, Cloverdale, Ohio. Filed Mar. 22, 1922. Serial No. 545,807. 3 Claims. (Cl. 130—10.)



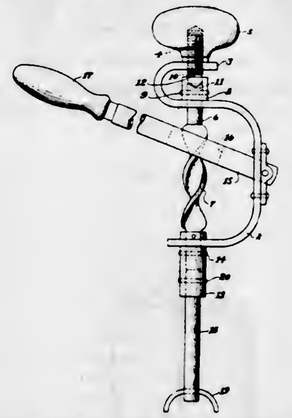
1. A husking peg comprising a handle member, a husking peg pivoted exteriorly of the handle, said peg corresponding in length to the length of the handle, and means disposed between the peg and the handle for holding said peg in its closed or extended positions.

1,430,344. MEANS FOR SILENCING CRANK SHAFTS. CHILDE HAROLD WILLS, Marysville, Mich. Filed Nov. 12, 1920. Serial No. 423,682. 7 Claims. (Cl. 74—38.)



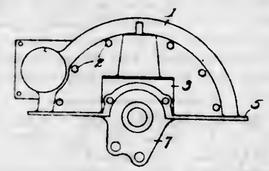
7. In a hydrocarbon motor, a crank shaft having an opening through a neutral section of a cheek thereof, a metal washer, a paper washer between said metal washer and the face of the cheek, and a retaining member engaging said metal washer.

1,430,345. VALVE-DRESSING TOOL. FRED WINDISH, Hartford, Conn., assignor of one-half to Martin Rudzik, Hartford, Conn. Filed Apr. 28, 1922. Serial No. 557,107. 1 Claim. (Cl. 51—29.)



A valve dressing implement comprising a body portion in the form of a yoke, one branch of which carries a handle, a sleeve supported for rotation by the other branch, and a spindle supported for rocking motion by one branch of the yoke and keyed to the sleeve carried by the other branch, said sleeve having means to removably fasten therein the shank of a tool, and a lever mounted for rocking motion upon the transverse portion of the yoke, the lever having a slot and the twisted portion of the spindle extending through the slot, the lever as it oscillates engaging said twisted portion to rock the spindle.

1,430,346. CASING FOR TRANSMISSION GEARINGS. WILLIAM S. WRIGHT, Newark, Ohio. Filed Feb. 17, 1922. Serial No. 537,212. 5 Claims. (Cl. 74—56.)



1. A casing for change-speed transmission gearings, comprising two sections separable approximately in the

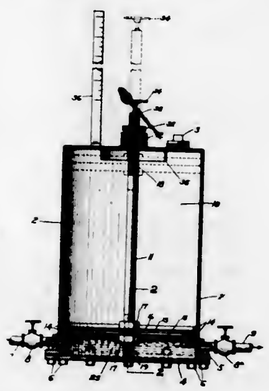
horizontal plane of the main drive, the upper section carrying the entire transmission gearing with the change-speed gears suspended within the interior of the lower section and also carrying the driving clutch.

1,430,347. PROCESS OF PRODUCING PRINTING PLATES. EUGEN ALBERT, Munich, Germany. Filed May 19, 1914. Serial No. 839,663. 4 Claims. (Cl. 95—5.7.)



1. The process of treating a plate having thereon a coating of etching ground and an overlying light-sensitive bichromated colloid coating portions of which have been exposed to light to render them impermeable to a solvent liquid which process consists in subjecting such coated plate to the action of a solvent for the etching ground which solvent also possesses the property of permeating the unexposed portions only of the light sensitive coating and of simultaneously removing both the unexposed portions of said sensitive coating and their underlying etching ground without removing the exposed portions of the light sensitive film or their underlying etching ground, substantially as and for the purpose set forth.

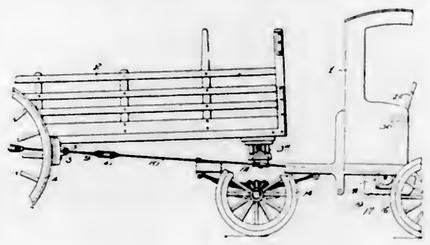
1,430,348. SPRAYING ATTACHMENT. OLAF J. ARNESS, Minneapolis, Minn. Filed Aug. 1, 1921. Serial No. 488,908. 4 Claims. (Cl. 299—85.)



1. A spraying attachment comprising a tank having at one end intake and discharge hose connections, a piston arranged in said tank, there being a water chamber on one side of said piston communicating with said hose connections and a chamber for a chemical solution on the other side of said piston, a rod connected with said piston and having a passage therein extending on one side of said piston and ports communicating respectively with said chemical solution chamber and with said water chamber, a valve mounted in said passage between said ports for cutting off the flow of the solution from one chamber to the other, and means extending to the outside of said tank for opening and closing said valve.

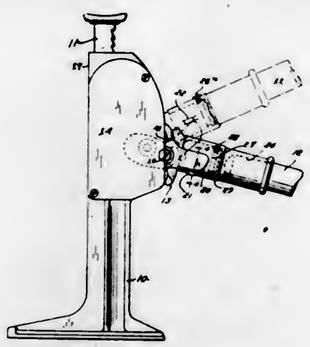
1,430,349. BRAKE MECHANISM. WILLIAM BARBER, New York, N. Y. Filed Feb. 14, 1918. Serial No. 217,055. 9 Claims. (Cl. 188—3.)

1. The combination with a tractor and trailer said tractor and trailer being pivotally connected together, of a brake for said tractor and a brake for said trailer, a manually operated brake control mechanism located on said tractor, connections between said brakes and said control mechanism, said connections comprising pairs of equal lever arms and inter-connecting links and means for connecting said brake control mechanism with said



brakes to allow free pivotal movement between said tractor and trailer without interfering with the simultaneous application of said brakes upon the actuation of said brake control mechanism.

1,430,350. LIFTING JACK. EDMUND C. BATES, Alliance, Ohio, assignor to The Buckeye Jack Manufacturing Company, Alliance, Ohio, a Corporation of Ohio. Filed Nov. 8, 1920. Serial No. 422,488. 16 Claims. (Cl. 254—111.)



1. In a lifting jack, the combination with a raising mechanism, of a reversing device movable independently of the raising mechanism for determining the direction of actuation of said jack by its position and a member for operating the jack, said member being secured to the jack and serving for setting the reversing mechanism.

2. In a lifting jack, the combination of a raising mechanism, of a reversing device movable independently of the raising mechanism for determining the direction of actuation of said jack by its position, an operating member, and means rotatably mounted on said operating member and movable thereby for moving the reversing device for actuating the same.

14. In a lifting jack, the combination with raising mechanism, of a reversing member, an oscillating lever connected with the raising mechanism, said lever having a cylindrical shank thereon, a recessed socket member rotatably embracing said shank, a handle non-rotatably connected to the socket member, an arm carried by the socket member and adapted to clear the reversing member during the normal oscillatory operation, said arm being adapted to engage the reversing member when the handle is rotated, whereby the subsequent operating movement of the handle shifts the reversing lever.

1,430,351. AUTOMATIC GAS CONTROL VALVE. PHILIP BENVISSUTO and LEUIGI MOMBARUZZO, New York, N. Y. Filed Oct. 30, 1920. Serial No. 420,802. 3 Claims. (Cl. 67—115.)



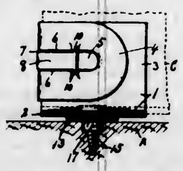
1. In a new article of manufacture, comprising in combination a hollow casing provided with a bottom having one smaller and one larger opening, a cylindrical body tightly fitting in said casing and rotatably mounted therein and having two longitudinal bores disposed diametrically opposite each other, one of which being of uniform diameter over its entire length, the other reduced at its lower portion, a hollow valve member fitting in the latter bore, means for turning said body into three different positions, one being that where said first mentioned bore registers with said larger opening, the other where said reduced bore registers with said smaller opening, and the third where neither of the bores register with any one of the openings, and means for keeping said body in any one of these positions at will.

1,430,352. AUTOMOBILE SIGNAL DEVICE. ALEXANDER BERGER, Bayside, N. Y. Filed May 1, 1922. Serial No. 557,769. 4 Claims. (Cl. 177—329.)



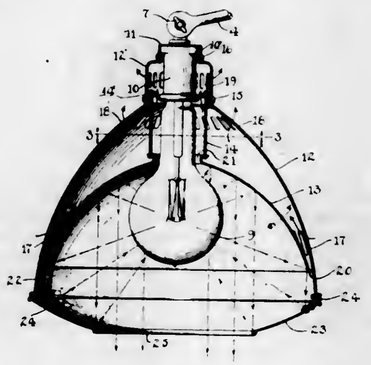
1. A signal device of the character described having a plurality of closed compartments, two of the compartments being in line with each other to contain right and left turn signals, and an intermediate compartment, said device being formed of sheet material including one integral piece which forms the base, end and upper walls of the right and left turn signal compartments and has an integral extension at the bottom to which a license plate is adapted to be attached, a second integral piece of sheet material adapted to fit over and form the top closing plate for the compartments together with means for readily detaching the same therefrom and having suitable transparent windows formed over the right and left turn signal compartments and a transparent window disposed under the aforesaid intermediate compartment.

1,430,353. CARPET OR RUG FASTENER. WILLIAM BROOME, Oswego, N. Y. Filed May 12, 1922. Serial No. 560,329. 2 Claims. (Cl. 16—8.)



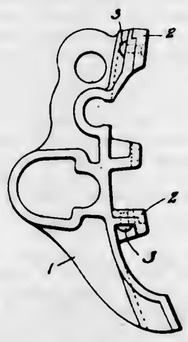
2. A carpet fastener comprising a floor member having a socketed head, a U-shaped clip adapted to receive the edge of the carpet between its opposite sides and having one side provided with a button for frictional engagement in the socketed head, a spring tongue having one end attached to the clip near the junction of said sides and its other end free to move in the intervening space, and a cam lever mounted on the clip for operating said tongue to grip the adjacent portion of a rug or carpet between opposite sides of the clip.

1,430,354. THERAPY LAMP. FRED F. BURDICK, Milton, Wis. Filed Apr. 24, 1920. Serial No. 376,374. 1 Claim. (Cl. 240—1.)



A radio-therapeutic lamp casing comprising a conoidal outer wall formed and adapted to enclose the lamp as a whole to prevent side radiation, in combination with a conoidal inner reflecting wall open at the top and nesting therein, said inner wall being formed and adapted to enclose the lower bulging part of the lamp wherein the light is generated and having its lower edge turned outward against the lower part of said outer wall and the upward part being increasingly spaced toward the top, and threaded tension means for securing said walls together, the outer wall having ventilation apertures adjacent to the lower and upper edges of said inner wall whereby over-heating is prevented.

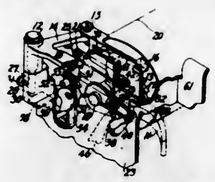
1,430,355. BRAKE HEAD. EDWIN G. BUSSE and GEORGE N. VAN SWERINGEN, Chicago, Ill., assignors to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 19, 1920. Serial No. 352,521. 6 Claims. (Cl. 188—236.)



3. A brake head comprising a body having a portion adapted to be mounted on the end of a brake beam and having integral extensions which are provided along

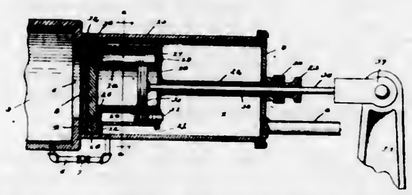
their faces with undercut recesses spaced at substantial intervals, and renewable undercut lugs adapted to fit in said recesses and to support and space a brake shoe from said body.

1,430,356. TYPEWRITING MACHINE. GEORGE W. CAMPBELL, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 20, 1920. Serial No. 404,890. 10 Claims. (Cl. 197—114.)



1. In a typewriting machine, the combination of a revoluble platen, a line-space ratchet-wheel, operating means comprising a pawl to engage said line-space wheel to line-space the platen, and means comprising a regulator to swing said pawl to or away from the teeth of the line-space wheel, for pointing said pawl to different teeth of the line-space wheel to vary the line-spacing of the platen, said regulator comprising a forked guide embracing the pawl to guide the pawl in its line-spacing movements.

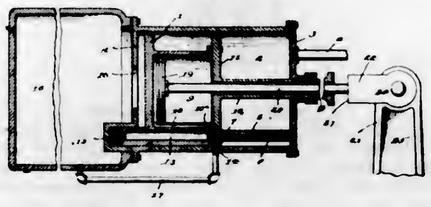
1,430,357. COMPOUND AIR BRAKE. WILLIAM G. CANION, Baltimore, Md., assignor to Canion Air Brake Company, Bisbee, Ariz., a Corporation of Arizona. Refiled for abandoned application Serial No. 791,809, filed Sept. 25, 1913. This application filed June 28, 1921. Serial No. 481,163. 6 Claims. (Cl. 303—32.)



6. In fluid pressure brake actuated apparatus the combination of a brake cylinder, a main brake piston therein, a cylinder and a charging reservoir therefor both carried by the main brake piston, said cylinder having ducts leading from opposite ends thereof to the said charging reservoir and said charging reservoir having a direct connection with said brake cylinder and a controlling valve to cause said charging reservoir to be charged from and with the brake cylinder, to also cause the charge in the charging reservoir to be utilized for moving the prime acting brake piston to brake applying position when the main brake piston is moving to such position, but at a higher rate of speed, and to exhaust from the main brake piston carried cylinder when the brake cylinder is recharged.

1,430,358. COMPOUND AIR BRAKE. WILLIAM G. CANION, Baltimore, Md., assignor to Canion Air Brake Company, Bisbee, Ariz., a Corporation of Arizona. Refiled for abandoned application Serial No. 819,265, filed Feb. 17, 1914. This application filed June 28, 1921. Serial No. 481,164. 5 Claims. (Cl. 303—32.)

4. In fluid pressure brake apparatus of the class described, the combination of a brake cylinder having an intermediate port, an auxiliary reservoir connecting with the rear end of said brake cylinder, a duct connecting said port with the auxiliary reservoir, a main brake piston normally closing said port and having a cylinder, a prime acting brake piston in the cylinder of the main brake piston and means actuated by release movement of the main piston to relieve pressure in the cylinder of said main piston behind the prime acting piston and by the



braking movement of said main piston to charge the rear portion of said main piston cylinder from the brake cylinder and cause the prime acting piston to move relatively to the main piston and yieldable means to permit the main brake piston to momentarily open said port when the said piston moves to release position.

1,430,359. COMPOUND AIR BRAKE. WILLIAM G. CANION, Baltimore, Md., assignor to Canion Air Brake Company, Bisbee, Ariz., a Corporation of Arizona. Refiled for abandoned application Serial No. 846,831, filed June 23, 1914. This application filed June 28, 1921. Serial No. 481,165. 8 Claims. (Cl. 303—32.)

1. In fluid pressure brake apparatus of the class described, the combination of a brake cylinder, a main brake piston in the brake cylinder and having a cylinder movable with said piston, a prime acting brake piston in the cylinder of the main brake piston, a fluid pressure operated controlling valve carried by the main brake piston to charge the cylinder of the main brake piston from the brake cylinder on an initial braking movement of the main brake cylinder and cause the prime acting piston to move in said main piston, and means actuated by release movement of the main piston to cause said valve to relieve pressure in the cylinder of the main piston behind the prime acting piston, said valve operating means including a thrust rod carried by the main piston.

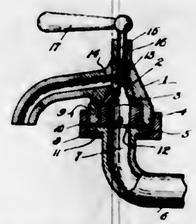
7. In fluid pressure brake apparatus of the class described, the combination of a brake cylinder, a main brake piston in the brake cylinder having a cylinder movable with said piston and also having a tubular piston rod; a prime acting brake piston in the cylinder of the main piston, having a piston rod operative in the tubular rod of the main cylinder, means operative on an initial movement of the main piston to charge the cylinder thereof and cause the prime acting piston to move therein, means to lock the piston rods of said pistons together after an initial braking movement of the prime acting piston, and means actuated by release movement of the main piston to cause said charging means to relieve pressure in the cylinder of the main piston behind the prime acting piston.

1,430,360. FABRIC. ROBERT M. CARSON and JOHN J. LEAHY, Philadelphia, Pa. Filed Nov. 28, 1921. Serial No. 518,189. 19 Claims. (Cl. 139—9.)



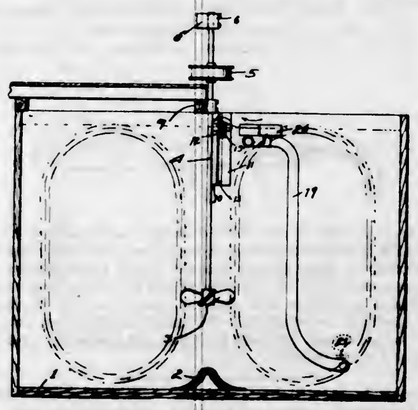
1. A fabric of the class described comprising a stiffening base of relatively inferior material; and a ribbed pile-like face comprising relatively large weft threads substantially in contact, relatively fine weft threads positioned between the adjacent first mentioned weft threads, and binder warps binding together said face and base.

1,430,361. VALVE. JOHN P. CULLIGON, Columbus, Ohio. Filed Feb. 4, 1921. Serial No. 442,525. 1 Claim. (Cl. 251—95.)



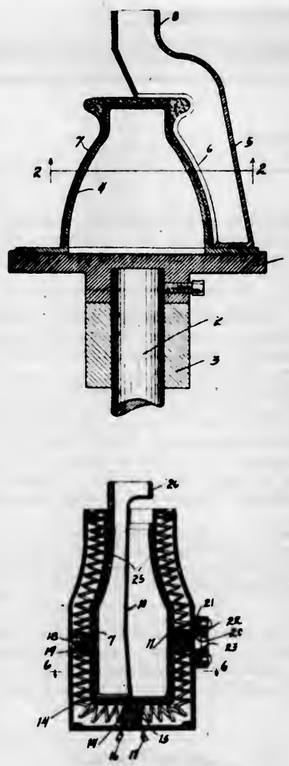
In a valve, a casing having a conical plug socket formed therein and an enlarged threaded portion extending from said socket, a hollow valve plug arranged to be rotatably engaged in said socket, a ring threaded in said threaded portion for engaging the plug to force the same into the socket, a fluid supply pipe having a collar thereon, a nut threaded on the casing and having an annular lip carried thereby for engaging said collar, a gasket disposed between the collar and ring, said nut serving to urge the gasket into engagement with the ring, whereby the gasket is held in tight engagement with the ring to hold the same against accidental rotation.

1,430,362. AGITATOR FOR LIQUID MATERIALS. WILLIAM G. DEVEREUX, San Mateo, Calif. Filed Feb. 2, 1922. Serial No. 533,054. 7 Claims. (Cl. 259—109.)



1. In an apparatus of the class described a liquid receptacle, an agitator therein for circulating the liquid in the receptacle, and a floating baffle plate to retard the rotation near the surface of the liquid.

1,430,363. PROCESS AND APPARATUS FOR APPLYING AND SHAPING PLASTIC MATERIAL. CHARLES S. DOLLEY, Nelson, N. H. Filed Dec. 5, 1919. Serial No. 342,677. 21 Claims. (Cl. 25—24.)



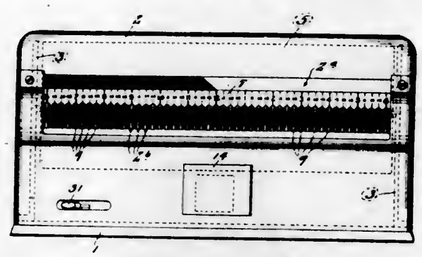
3. A device of the kind described comprising a support, a hollow member for containing plastic material adjacent one surface of said support having a slot therein extending from the center of the support to a point adjacent the periphery of the latter, and means for forcing plastic material outwardly through said slot onto the surface of the support, and means for simultaneously producing relative rotation of the support and said means.

4. A device of the kind described comprising a double-walled support, heating means arranged between the walls of said support, a hollow member for containing plastic material adapted to be inserted within said support having a slot therein extending from the center of the support to a point adjacent the periphery of the latter, means for forcing plastic material outwardly through said slot over the surface of the support, and means for simultaneously producing relative rotation between the support and said member.

1,430,364. ANNUNCIATOR. CLYDE P. EVANS, St. Louis, and MILFRED L. GREENSTREET and WALLACE DAY, Maplewood, Mo.; said Greenstreet and said Day assignors to said Evans. Filed Nov. 15, 1921. Serial No. 515,400. 21 Claims. (Cl. 161—4.)

1. An annunciator having a part movable by a time train, a series of contacts arranged on said movable part,

elements each adapted to be moved into a position in the path of movement of said contacts, an electric circuit, and



a signal placed in operative position upon the completion of said electric circuit by the engagement between one of said time train driven contacts and one of said elements.

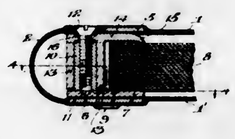
1,430,365. COMPOSITE-SHEET BODY. GEORGE S. FINNEY, Chicago, Ill., assignor of one-half to Byron D. Adsit, Chicago, Ill. Filed May 21, 1921. Serial No. 471,435. 3 Claims. (Cl. 154—51.)

1. A composite sheet body for roofing, or like purposes, comprising a plastic stratum and an adherent surfacing for the same consisting of a granulated fused non-absorbent, vitreous composition of mineral substances.

2. A composite sheet body for roofing, or like purposes, comprising a plastic stratum and embedded therein, a granular material consisting of a fused composition of slag and silica.

3. A plastic body having incorporated into the superficial portion of the same, in a granular state, a substance consisting of a fused non-absorbent, vitreous composition of lime and silica.

1,430,366. TEMPORARY BINDER. LOUIS LEROY FLECK, New York, N. Y., assignor to Alexander Hamilton Institute, a Corporation of New York. Filed Mar. 14, 1922. Serial No. 543,620. 5 Claims. (Cl. 129—35.)



1. In a temporary or loose leaf binder comprising cover pieces for the sheets or leaves to be bound, extensible clamping means supported by one cover piece and arranged between the two cover pieces, the said clamping means consisting of upright posts having grooves in opposite faces, and co-operating clamping elements with finger-like projections to fit within the grooves of the posts to maintain a definite relationship between the clamps and posts, and threaded fastening means extending through the other cover piece and into the posts for maintaining the clamps in operative position, and also securing the cover pieces in proper relative position or book-like form.

1,430,367. REAR-AXLE CONSTRUCTION. HENRY FORD, Dearborn, Mich. Filed July 10, 1918. Serial No. 244,151. 6 Claims. (Cl. 74—99.)

6. In a rear axle construction wherein rear axle housings are connected to the sides of a transmission housing, and shafts extend through said rear axle housings into said transmission housing:—a differential mechanism for said shafts, said differential mechanism including a housing having end portions solely supported by said rear axle



housings independent of said transmission housing and said shafts.

1,430,368. GAUGE COCK. HENRY A. FRACKELTON, Schenectady, N. Y. Filed Apr. 26, 1921. Serial No. 464,553. 3 Claims. (Cl. 251—22.)



1. The combination, in a gauge cock, of a tubular body; a tubular bonnet; an interposed valve seat; a coupling nut, detachably connecting the body and bonnet; a main valve stem, having a threaded connection with the bonnet; a supplemental valve stem, having a threaded connection with the body; an operating closure valve and a repair closure valve, carried by said supplemental valve stem; and means for detachably connecting the main and supplemental valve stems.

1,430,369. REMOVABLE-TINE PITCHFORK. HENRY C. FUNK, Grant Township, Riley County, Kans. Filed Sept. 6, 1921. Serial No. 498,654. 3 Claims. (Cl. 294—49.)

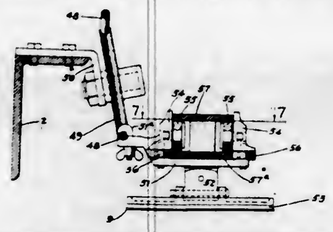


1. In a tool of the class described comprising a head divided lengthwise forming a main head and face-plate, a plurality of tines having grooves in the butts thereof, a corresponding rib on the edge of one portion of said head adapted to engage said grooves when the two portions are brought together with the tines therebetween, means for securing said portions together, and means for attaching a handle thereto.

1,430,370. SANDING MACHINE. JOHN GALBRAITH, St. Paul, Minn. Filed Apr. 23, 1921. Serial No. 464,056. 7 Claims. (Cl. 51—141.)

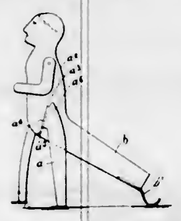
1. In a sanding machine, a guide bar comprising flat upper and lower plates arranged in parallel relation and spaced apart and means at intervals securing the middle

portions of said plates together, an unobstructed passage being provided between said plates upon each side of said securing means, a sanding head arranged beneath the lower



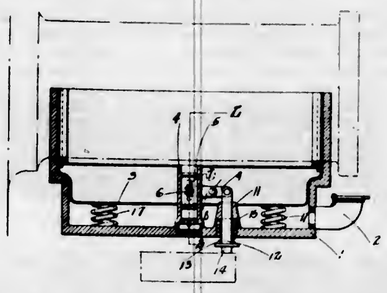
member of said guide bar and having anti-friction bearings on the longitudinal edges of said lower member, and similar bearings between said members, and a sanding shoe connected with said head.

1,430,371. WALKING MECHANISM FOR TOYS AND OTHER ARTICLES. CHARLES JAMES HARVEY, Kidderminster, England. Filed Jan. 30, 1920. Serial No. 355,076. 9 Claims. (Cl. 46—40.)



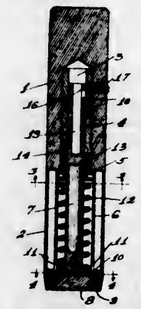
1. In mechanism for making movement, the combination of a body provided with means for preventing lateral oscillatory motion thereof; and a leg element; the leg element comprising rigid leg members, and transverse connecting means for coactively controlling the leg members for alternate movement thereof, whereby when said body is moved horizontally along on a plane surface and the leg members are contactable with said surface one leg member is moved to body-supporting position, and the other leg member is lifted and moved forwardly with a stepping motion; the leg members being spaced apart at their upper ends in adjacent opposite relation to each other and diverging downwardly.

1,430,372. JOURNAL LUBRICATOR. JAMES J. HENNESSY, New York, N. Y. Filed Sept. 20, 1921. Serial No. 501,866. 7 Claims. (Cl. 64—25.)



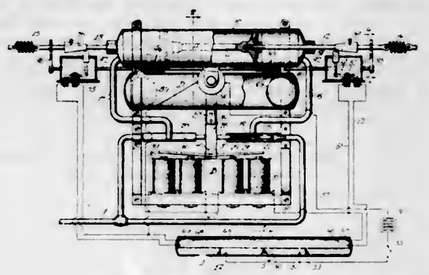
1. In a journal lubricator, a lubricant reservoir, a pump for elevating lubricant from said reservoir to a journal, and a pump operating member extending through the bottom of said reservoir.

1,430,373. GASKET CUTTER. CHARLES H. HENNINGS, Chicago, Ill. Filed Aug. 17, 1921. Serial No. 492,926 6 Claims. (Cl. 164—33.)



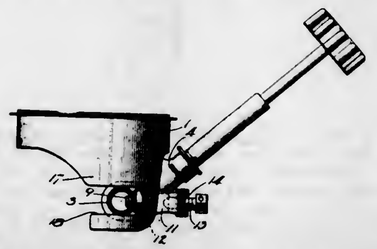
1. A device of the class described comprising a handle member, a cutter thereon, a second cutter coaxial with the first cutter and supported by the handle member, a rod slidably mounted in the second cutter, an ejector-plunger on the rod slidable in the end of said second cutter, a second ejector-plunger slidable between the first and second cutters and connected to said first mentioned ejector-plunger for movement therewith, and a helical spring inside the second cutter for normally forcing said plungers outwardly.

1,430,374. STABILIZER. WILLIAM F. HENSEL, Chicago, Ill. Filed Jan. 16, 1920. Serial No. 351,892. 14 Claims. (Cl. 244—29.)



6. A stabilizer for air planes having a fluid motor for operating a wing of the plane, means controlled by the inclination of the plane for controlling said motor, and automatic means for producing an intermittent operation of said motor.

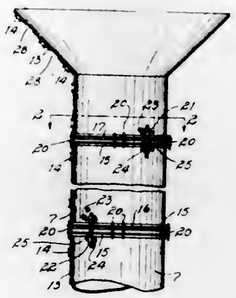
1,430,375. OIL STOVE. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Feb. 12, 1919. Serial No. 276,536. 11 Claims. (Cl. 158—87.)



1. The combination of an oil burner comprising a base having a burner bowl mounted therein, a feed pipe, and

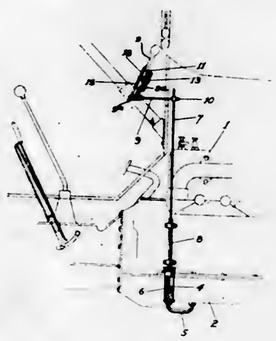
means establishing communication between the burner bowl and the feed pipe, said means comprising a valve controlled fitting having an upright portion rigidly secured to the burner bowl at the forward side thereof and a substantially horizontal portion extending inwardly and rearwardly beneath the burner and detachably secured to the pipe.

1,430,376. FORM FOR CONCRETE COLUMNS. CHARLES H. HORMANN, St. Louis, Mo. Filed Jan. 16, 1922. Serial No. 529,593. 2 Claims. (Cl. 25—118.)



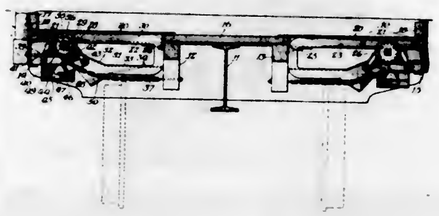
1. A concrete form comprising a split section, having its ends overlapping, dove-tailed strips secured along the overlapping portions, clips for holding the sections in shape, sectional and detachable stiffening bands for the sections, means for tightening the bands on the sections and prevent lateral shifting of one form section relative to the other, and a locking mechanism comprising a wedge for fastening the ends of the sections to each other.

1,430,377. OIL GAUGE. HAROLD T. HOPS, Acampo, Calif. Filed July 20, 1921. Serial No. 486,144. 4 Claims. (Cl. 73—82.)



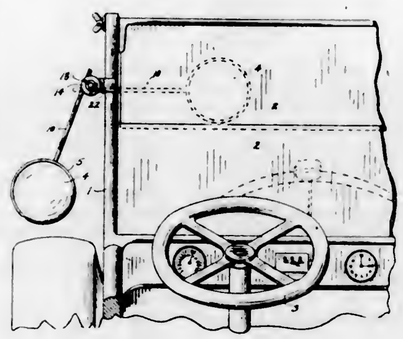
1. A gauge for liquid-reservoirs including an indicating dial, a rotatable finger co-operating therewith, a float in the liquid, a vertical stem mounted on the float and offset from the dial, a pinion fixed in connection with the finger, a rack bar meshing with the pinion, said bar and dial being substantially vertical, a horizontal arm mounted on the stem, and a connection between the arm and bar to allow of relative sliding and swivel movement therebetween.

1,430,378. CAR-DOOR-OPERATING MECHANISM. WILLIAM JOSEPH HOSCEIT, Chicago, Ill. Filed Sept. 10, 1917. Serial No. 190,505. 4 Claims. (Cl. 105—205.)



1. In a railway car, the combination of a movably mounted door, an operating shaft for supporting the door, a ratchet wheel mounted on said shaft, a member pivotally mounted on said shaft, pawls pivotally mounted on said member and cooperating with the said ratchet to operate the shaft for movement of said door, and means for holding one of said pawls out of engagement with said ratchet wheel.

1,430,379. COMBINATION MIRROR AND LIGHT SHIELD. HARVEY HUBBELL, Bridgeport, Conn. Filed June 7, 1921. Serial No. 475,667. 2 Claims. (Cl. 45—97.)

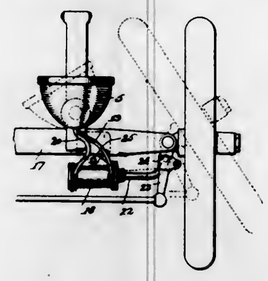


2. A device of the class described including a supporting clamp comprising spaced sections provided with means for clamping the frame of an automobile wind shield, having aligned recesses in their opposed surfaces and one of said members having a transverse opening from its recess, a support extending through said opening and provided with a ball adapted to be clamped in said recesses, a mirror, a rod for supporting said mirror, and means for securing the rod to said support constructed to support the mirror at will either at one side of the wind shield or in front thereof to provide a light shield.

1,430,380. DIRIGIBLE HEADLIGHT FOR MOTOR VEHICLES. ROBERT DONALD INNIS, Marion, Ind. Filed July 5, 1921. Serial No. 482,343. 6 Claims. (Cl. 240—62.)

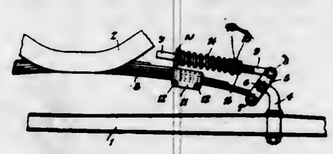
1. In an apparatus of the class set forth, a rotatable headlight, a fluid-actuated means rotating the headlight, and a power-actuated means for actuating the aforesaid

means from the steering gear of the vehicle, said power-actuated means embodying a cylinder pivotally mounted



on the vehicle, a piston and piston-rod therefor, and means for adjustably attaching the piston-rod to the steering knuckle.

1,430,381. SPRING-EQUALIZER DEVICE FOR VEHICLES. HERBERT JOHNSON, New York, N. Y., assignor of one-half to William H. White, Brooklyn, N. Y. Filed Nov. 12, 1921. Serial No. 514,555. 12 Claims. (Cl. 267—17.)



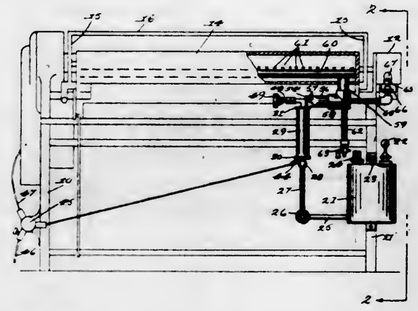
2. In a spring suspension for vehicles, the combination with a main spring interposed between the framework and an axle of the vehicle, of an abutment means on said spring, means movable by said main spring when subjected to load or shock, one of said means including an adjustable element, and resilient means interposed in its entirety between said adjustable element and the other of said means, and compressible throughout its entire length by the movement of said movable means.

1,430,382. FENCE. OTTO JOHNSON, Freeland, Mich. Filed June 15, 1921. Serial No. 477,789. 2 Claims. (Cl. 256—27.)



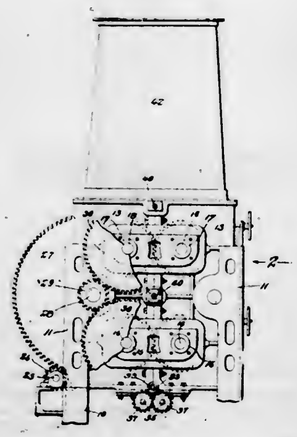
1. A fence panel having terminal upright channeled bars and upper and lower post engaging means of which the former consist of eyes, the lower post engaging means at opposite ends of the panel consisting respectively of parallel tongues and a single tongue, arranged in different horizontal planes and terminally arranged respectively in different vertical planes.

1,430,383. VAPORIZER FOR FUEL HEATERS AND BURNERS. GEORGE PAUL KITTEL, Union Hill, N. J. Filed June 8, 1921. Serial No. 475,991. 7 Claims. (Cl. 158—22.)



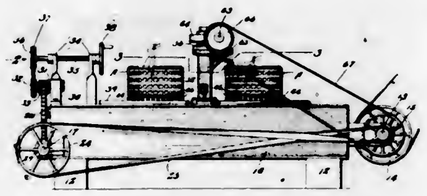
7. A device of the character described adapted to be attached to a laundry machine comprising a pair of smoothing rollers, a pressing medium for each of said rollers, a plurality of burners within each pressing medium, a fuel tank containing fuel under pressure, a vaporizing cylinder, a pipe connected with said cylinder for feeding the fuel to said burners under the admixture of air, valves for controlling the quantities of fuel fed to said cylinder and said burners, a means for filtering the fuel, and a means for exhausting the products of condensation.

1,430,384. FLUXER FOR FUEL-BRIQUETTE MATERIAL. GUSTAV KOMAREK, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 1, 1919. Serial No. 286,788. 7 Claims. (Cl. 259—6.)



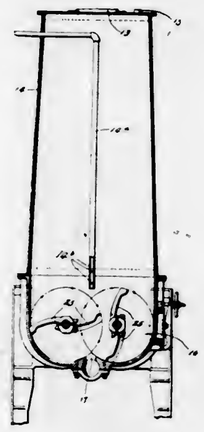
1. An apparatus of the character described comprising an unobstructed tapered chamber, widest at its lower end, means for agitating material adjacent to the lower end of said chamber, and means for controlling the discharge of the material from the bottom of said chamber,

1,430,385. MILLING MACHINE. GUSTAV KOMAREK, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo., a Corporation of Missouri. Filed May 24, 1920. Serial No. 383,762. 18 Claims. (Cl. 90—18.)



1. In a mold ring milling machine, a multiple cutter, means for indexing the mold rings and locking them angularly, and work supporting members arranged to move simultaneously toward said multiple cutter.

1,430,386. METHOD OF TREATING FUEL FOR BRIQUETTING PURPOSES. GUSTAV KOMAREK, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 31, 1920. Serial No. 434,342. 3 Claims. (Cl. 44—10.)



3. The method of treating fuel for briquetting purposes which includes combining coal dust with a binder, forming a vertical column of the mass, applying heat to the column, and kneading the mass in the lower portion only of the column.

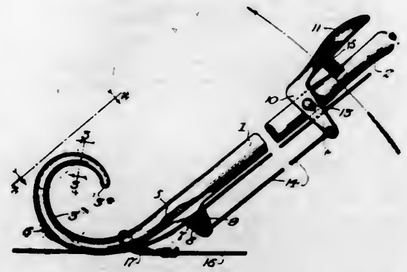
1,430,387. SURFACE-FINISHING IMPLEMENT. JOSEPH F. KRALL, Chicago, Ill. Filed Nov. 9, 1921. Serial No. 513,997. 16 Claims. (Cl. 144—2.)

1. A surface finishing implement comprising a portable carriage, upright guide bars hingedly secured thereto, a tool carrying head movably mounted on said guide bars, a reciprocatory tool mounted in said head, means for



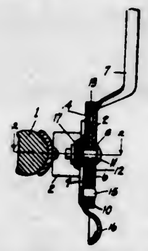
raising and lowering said tool carrying head, and means for operating the tool.

1,430,388. WIRE-STRETCHING TOOL. JOHN W. LESLIE, Evanston, Ill. Filed Oct. 25, 1920. Serial No. 419,445. 16 Claims. (Cl. 254—77.)



1. A binder stretching tool comprising a shank provided with a curvilinear end portion having a binder receiving groove extending along the outer face thereof.

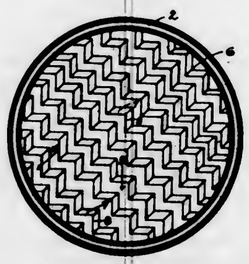
1,430,389. ADJUSTABLE SUPPORT. CHARLES A. LINDBERG, Sturgis, Mich., assignor to Sturgis Steel Gocart Company, Sturgis, Mich. Filed June 24, 1921. Serial No. 480,105. 8 Claims. (Cl. 296—110.)



8. In a structure of the class described, the combination of a supporting plate, a bracket pivotally mounted

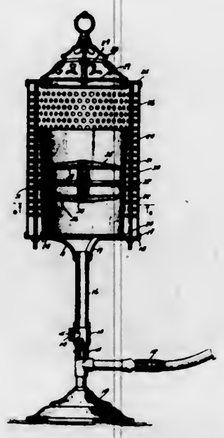
on said supporting plate, a stud projecting inwardly from said supporting plate, a lever-like locking dog for said bracket member engaged on said stud and having its inner end engaged with said plate so that it is supported for swinging movement, and a spring arranged on said stud to act on said dog.

1,430,390. HEADLIGHT SCREEN. EDWIN W. LODGE, Norfolk, Va., assignor of one-fourth to Frederick D. Cock, Hampton, Va. Filed Mar. 30, 1922. Serial No. 548,052. 1 Claim. (Cl. 240—48.4.)



A headlight screen, and in combination with a supporting rim and its glass or lens, of a ring positioned on the inner side of the said glass having a series of independent stripe across the diameter thereof and disposed at an angle each having bends to form steps, said steps having their horizontal and vertical portions at right angles to each other with the apices of the angles in alignment for directing rays of light downwards and at a given angle.

1,430,391. GAS HEATER. HERMAN E. LOEBE, Jersey City, N. J. Filed Oct. 3, 1921. Serial No. 505,005. 4 Claims. (Cl. 126—35.)

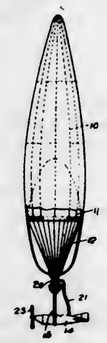


1. In combination with a heater a flame spreader of the class described, comprising an annular plate supported in the heater, a spacing hub extending to each side of the annular plate and supported thereby, and two dish-shaped plates, one mounted on each end of the spacing hub and both facing inward, the upper plate having grooves cut in the edge of its lower face extending radially outward.

1,430,392. COLORED FIBROUS COMPOSITION AND PROCESS OF MANUFACTURE THEREOF. ALAN R. LUKENS, Wyoming, Ohio, assignor to The Richardson Company, Lockland, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 1, 1920. Serial No. 421,148. 4 Claims. (Cl. 106—31.)

1. A fibrous composition comprising a candle tar base suitably treated to prevent oxidation and give desired strength and resiliency a coloring matter, and fibre, incorporated together by the fibration process.

1,430,393. DIRIGIBLE. CARLETON JOHN LYNDE, Ste. Anne de Bellevue, Quebec, Canada. Filed Mar. 5, 1921. Serial No. 449,693. 1 Claim. (Cl. 244—6.)



A dirigible, including an envelope, a suspending means secured to said envelope, a ring attached to said suspending means, a sleeve rotatably attached to said ring and communicating with the interior of said envelope, a yoke rockingly attached to said sleeve, a secondary yoke attached to said first named yoke, a propeller having its line of pull in line with said point of rocking connection of said last named yoke with the gondola, and means within said gondola for compressing fluid and introducing the same into said sleeve.

1,430,394. AUTOMATIC DISPLAY SIGN. EUGENE H. MCGEE, Chicago, Ill., assignor of one-fourth to F. L. Barchard and one-fourth to James E. McCaffery, both of Chicago, Ill. Filed Oct. 26, 1921. Serial No. 510,473. 9 Claims. (Cl. 40—31.)

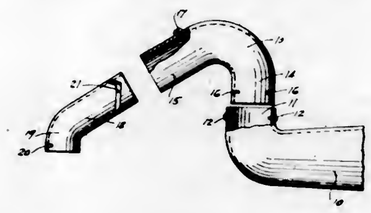


1. A display sign, comprising two spaced spools, a flexible display strip extending between said spools, and arranged to be wound thereon from one to the other and vice versa, the ends of said strip being secured to said spools, separate spool rotating mechanism for each spool, each including a motor and arranged to rotate one spool at a time in a direction to wind the strip thereon, and thereby unwind it from the other spool, and control mechanism for said motors, operating in conjunction with said strip to set the motor in motion for that spool from which the strip is unwound.

1,430,395. CONVERTIBLE TONE ARM. AUBREY R. MALONE, Franklin, Ky. Filed Jan. 23, 1922. Serial No. 531,234. 3 Claims. (Cl. 274—24.)

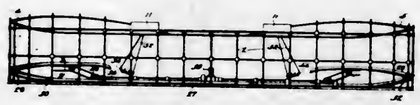
1. A tone arm for sound reproducing machines comprising a body portion having a lateral, approximately right angular bend, a laterally disposed gooseneck oscillatably

mounted in the free end of the tone arm body, a tubular connector having one end inserted in the gooseneck and mounted for limited oscillation therein through an angle of approximately 180°, the forward end of said connector being angularly bent to an angle of approximately 30°



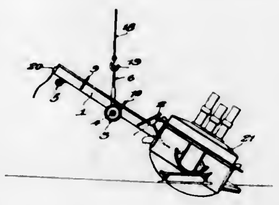
with relation to the axis of the connector, and a sound box mounted upon the end of the connector and having a stylus arm, the stylus arm having a longitudinally extending stylus socket and a transversely extending stylus socket.

1,430,396. AMUSEMENT DEVICE. WILLIAM G. MILLER, Boston, Pa. Filed Mar. 4, 1922. Serial No. 541,139. 9 Claims. (Cl. 104—63.)



3. The combination, in an amusement device, of elevated tracks which have their rails raised at parts throughout the length thereof and which are inclined in the same direction from the said raised parts, a truck arranged for travel on the tracks, a car suspended from the truck, means engaging the car to move the same bodily to cause the truck to travel over the raised portions of the track and for imparting an impeding motion to the car and truck to cause the latter to travel over the inclined portions of the tracks, means transferring the truck from one on to the other track, and means imparting a reverse movement to the truck, and a swinging motion to the car at the interval of such transfer.

1,430,397. FURNACE-CHARGING DEVICE. WILLIAM E. MOORE, Beaver Falls, Pa. Filed Aug. 2, 1920. Serial No. 400,790. 7 Claims. (Cl. 214—18.)



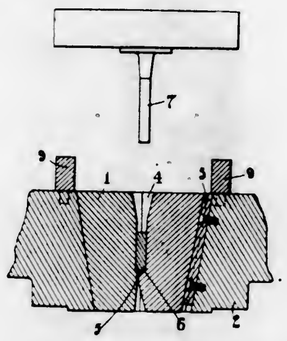
1. In a furnace charging device, a receptacle mounted on wheels, a vibrator attached to one end of said receptacle, the vibrator end of said receptacle being closed and the other end of said receptacle being open, the part of said receptacle extending from the wheels to the vibrator being of greater length than the other part of said receptacle, whereby the vibrator end of said receptacle will be heavier than the opposite end and therefore prevent the chute end from swinging downward.

1,430,398. BLADING FOR TURBINES. CHARLES ALGERNON PARSONS, ALFRED QUINTIN CARNEGIE, and MATTHEW BONE, Newcastle-upon-Tyne, and STANLEY SMITH COOK, Wallsend-upon-Tyne, England; said Carnegie, said Bone, and said Cook assignors to said Parsons. Filed July 7, 1919. Serial No. 309,207. 12 Claims. (Cl. 253—77.)



1. An extruded turbine blade having a base integral therewith.

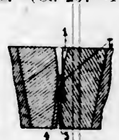
1,430,399. MANUFACTURE OF ARTICLES BY EXTRUSION. CHARLES ALGERNON PARSONS, ALFRED QUINTIN CARNEGIE, and MATTHEW BONE, Newcastle-upon-Tyne, and STANLEY SMITH COOK, Wallsend-upon-Tyne, England; said Carnegie, said Bone, and said Cook assignors to said Parsons. Original application filed July 7, 1919, Serial No. 309,207. Divided and this application filed Dec. 7, 1921. Serial No. 520,623. 11 Claims. (Cl. 207—10.)



1. A process of manufacturing finished metal articles having a stem and base, according to which a metal billet is introduced into a container and at a single operation part of said billet is extruded from the said container to form the stem and another part of said billet is drop-forged to form a base integral with said stem.

3. A process of manufacturing turbine blading, according to which part only of a metal billet is extruded to form the blade and another part of said billet is formed into a base integral with said blade.

1,430,400. MANUFACTURE OF BLADING FOR TURBINES. CHARLES ALGERNON PARSONS, ALFRED QUINTIN CARNEGIE, and MATTHEW BONE, Newcastle-upon-Tyne, and STANLEY SMITH COOK, Wallsend-upon-Tyne, England; said Carnegie, said Bone, and said Cook assignors to said Parsons. Filed Apr. 14, 1920. Serial No. 373,937. Renewed Aug. 22, 1922. Serial No. 583,643. 6 Claims. (Cl. 207—17.)



1. A die of the type described having an aperture to receive the billet provided with an enlarged bottom, and an orifice through which the billet may be extruded extending from said enlarged bottom.

1,430,401. PENCIL HOLDER. ALONSO D. PERALTA, Guatemala, Guatemala. Filed Sept. 10, 1921. Serial No. 499,622. 3 Claims. (Cl. 120—18.)



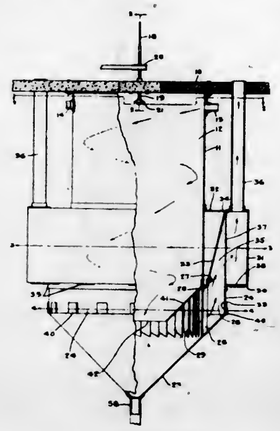
3. A pencil holder including an internally and externally screw threaded casing, a pencil in the casing, a threaded sleeve on the pencil engaging the inner threads of the casing, a protecting sleeve removably encircling one end of the casing and adapted to be unscrewed to expose the pointed end of the pencil.

1,430,402. SUSPENSION CHAIN FOR ELECTROLIERS AND FOR LIKE ELECTRICAL PURPOSES. ERNEST JOSEPH PERRY, Birmingham, England. Filed Nov. 17, 1921. Serial No. 515,902. 1 Claim. (Cl. 247—30.)



In a chain of the class described, a sheet metal link of concavo-convex cross section, arranged with the concave side outermost, and a sheet metal link of concavo-convex cross section, engaged with the first named link and arranged with the concave side innermost, the first named link having a boss on its inner side at the point of engagement, said boss fitting in the concave side of the last named link and effecting a pivotal connection between the links.

1,430,403. PROCESS AND APPARATUS FOR ACTING UPON MILK. FREDERICK A. PLUMMER, Minneapolis, Minn., assignor of one-half to Arthur Dorland Gray, Chicago, Ill. Filed Apr. 28, 1920. Serial No. 377,312. 11 Claims. (Cl. 127—9.)



4. An apparatus for producing and collecting dried products of liquid substances which consists in a casing forming a vertical cell, a second casing forming a chamber surrounding the bottom of said cell, there being openings at a multiplicity of points around the bottom of the cell and into said chamber, means for introducing finely divided liquid at the top of the cell, means for introducing air in tangentially-oblique currents into the top of the cell whereby the air and suspended material are caused to move downwardly through the cell in a cyclone and to discharge through said openings into the second chamber, and means associated with said openings for causing the air in the second chamber to continue its cyclonic movement whereby the solids in the air are acted upon by centrifugal force and gravity and are thereby separated from the air.

1,430,404. APPARATUS FOR TREATMENT OF THE FEET. MARY A. RADFORD, Oakland, Calif. Filed Nov. 3, 1921. Serial No. 512,452. 1 Claim. (Cl. 128—293.)

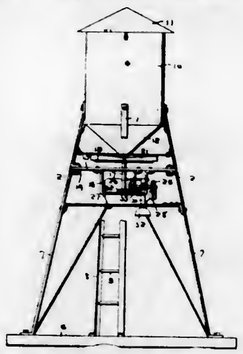


In a device of the character described, a non-porous stocking in which the foot is adapted to be inserted, a shoe in which the foot of said stocking are adapted to be encased, and a heating element associated with said shoe.

1,430,405. POULTRY FEEDER. GOTTLIEB REINHARDT, Saginaw, Mich. Filed June 18, 1919. Serial No. 305,094. 1 Claim. (Cl. 116—67.)

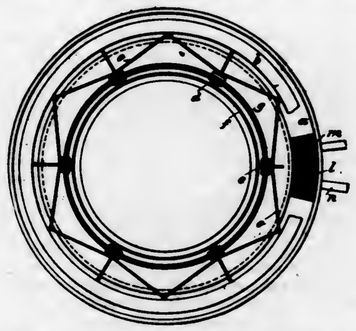
The combination of a support provided with an offset, of a bell suspended from the bottom of the support, a rotatable shaft journaled in the support below and in proximity to said offset, an outwardly and inwardly movable clapper depending from the offset and adapted to tap the bell on the inward movement thereof, means for pivotally supporting the clapper from the offset, and a cam mounted

on the shaft and on the operation of the shaft engaging the clapper for moving the same outwardly from the bell,



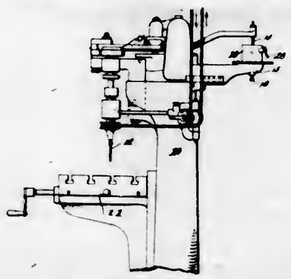
said clapper moving inwardly by gravity when cleared by the said cam to tap the bell.

1,430,406. WIND MOTOR. CARL SCHULTHES, Berlin, and BERNHARD MORA, Lubeck, Germany. Filed Nov. 25, 1921 Serial No. 517,762. 7 Claims. (Cl. 170--26.)



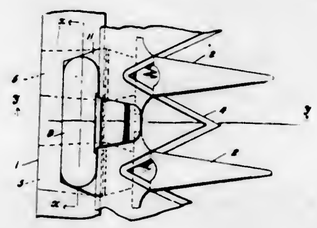
1. In a wind motor in combination, a substantially cylindrical open-work structure, vanes attached to said structure, a float secured to the base of said structure and means connected with said structure for transmitting power.

1,430,407. NUMBERING FIXTURE. JOSEPH SEVERSON, Ozone Park, Long Island, N. Y. Filed June 17, 1920. Serial No. 389,680. 6 Claims. (Cl. 90—13.)



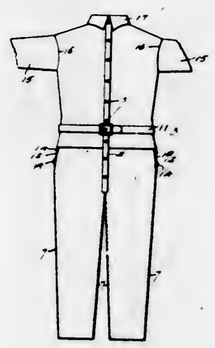
1. A numbering fixture including in combination with the tracing stylus of a pantograph, of a plurality of discs positioned adjacent said tracing stylus, said discs being movable with respect to one another.

1,430,408. HARVESTER CUTTING MECHANISM. PATRICK J. SHAW, Dixon, Calif. Filed Apr. 25, 1921. Serial No. 464,140. 2 Claims. (Cl. 56—307.)



2. In harvester cutting mechanism, a finger bar having a wedge shaped mortise, a wear plate having a corresponding mortise registering with the mortise of the finger bar, and a clip provided with a wedge shaped block snugly fitting the mortises of the wear plate and finger bar.

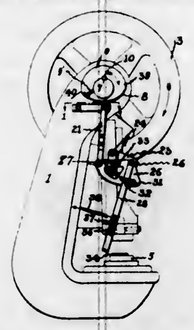
1,430,409. UNION GARMENT. WILLIAM S. SKELTON, Evansville, Ind. Filed Sept. 30, 1920. Serial No. 413,768. 1 Claim. (Cl. 2—144.)



A garment having a trouser section and an upper section, said trouser section having a seat member capable of opening and overlapped by said upper section when closed, loop means on the seat member passable through the adjacent portion of the upper section, in combination with a belt separable from the section to take up the slack at the waist of the garment and insertible through said loop means exteriorly of the upper section to support the trousers and close the seat section.

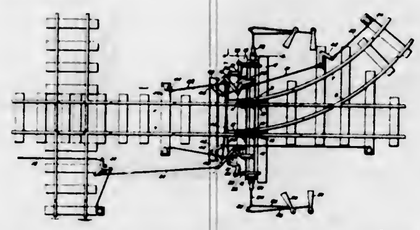
1,430,410. SAFETY DEVICE. SIEGFRIED SHOLD, Mansfield, Ohio. Filed Oct. 22, 1921. Serial No. 509,554. 9 Claims. (Cl. 74—105.)

1. In a safety device for machines having co-operating pressure elements, a disk provided with a cam face mounted for rotation on the frame of the machine, a mechanism comprising a connected link mechanism provided with an arm which is adapted when actuated by the cam to oscillate to and fro in the direction of the operator between the co-operating pressure elements, said oscillating arm being adapted to be adjusted to swing to different positions rela-



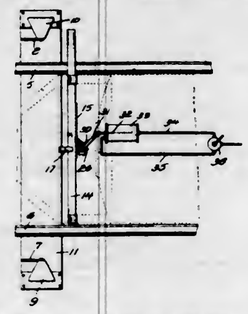
tive to the die and punch and being adjustably secured to the pivoted plate to change the throw of the oscillating arm.

1,430,411. RAILWAY SWITCH AND SIGNAL MECHANISM. JAMES P. SKARTCHEARIS, Jamestown, N. Y. Filed May 13, 1921, Serial No. 469,281. Renewed Aug. 14, 1922. Serial No. 581,839. 9 Claims. (Cl. 246—323.)



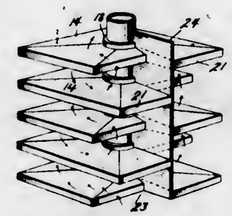
1. In a combined railway switch and signal of the class described, in combination with the switch points of a railway track, a signal and switch point operating bar slidable with the said switch points, lever operated, vertically movable members outside the switch points for locking said bar, and a trip mechanism for releasing said locking means to actuate said bar and open or close the selective switch points.

1,430,412. TRACK-SWITCH-TRIPPING MECHANISM. JAMES P. SKARTCHEARIS, Jamestown, N. Y. Filed May 13, 1921, Serial No. 469,282. Renewed Aug. 14, 1922. Serial No. 581,840. 7 Claims. (Cl. 246—361.)



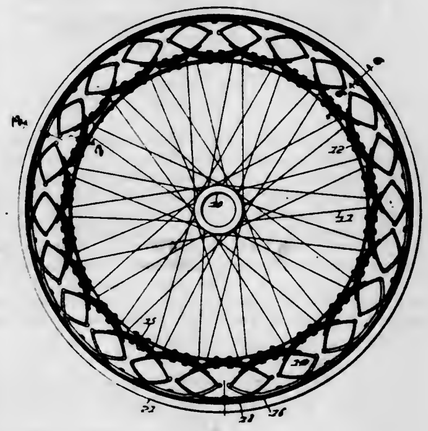
2. A trip operating mechanism of the class described, in combination with a railway car, comprising a horizontally movable trip operating bar supported for movement to opposite sides of a track, and pneumatic means for actuating said bar to the left or right to its engaging operative position.

1,430,413. HEATER. HARVEY N. SMITH, Allentown, and GRANVILLE A. WARTMAN, Bethlehem, Pa. Filed Mar. 22, 1920. Serial No. 367,986. 7 Claims. (Cl. 122—218.)



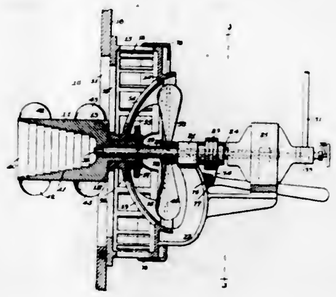
2. A water heater comprising a combustion chamber, a water jacket surrounding said combustion chamber, means for introducing water into said water jacket, a plurality of superimposed heating units arranged in spaced relation and having offset portions arranged in staggered relation, and a vertical baffle plate connecting said offset portions, whereby the products of combustion escaping from the combustion chamber are directed into contact with the entire exposed surface of each successive heating unit.

1,430,414. SPRING WHEEL. ENRIQUE BRANDAO SOBA, Montevideo, Uruguay. Filed Apr. 4, 1921, Serial No. 458,202. Renewed Aug. 14, 1922. Serial No. 581,841. 6 Claims. (Cl. 152—8.)



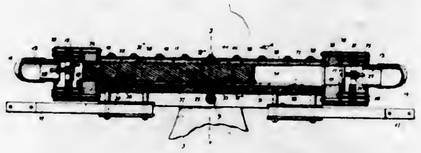
6. In a spring wheel, an inner rim, a plurality of circular series of resilient elements arranged about the inner rim, a circular member of resilient material arranged about each circular series of resilient elements, transverse connecting members extending across the outer portions of the circular members, and crossed members connected with the extremities of the transverse members.

1,430,415. HYDROCARBON BURNER. DAVID MCBAIN SYME, Newport, R. I., assignor to Hydro-Carbon Burner Manufacturing Company, Newport, R. I., a Corporation of Rhode Island. Filed Mar. 1, 1921. Serial No. 448,889. 11 Claims. (Cl. 158—77.)



1. In a hydrocarbon burner, an atomizer comprising a cup having a cylindrical periphery and interior means for atomizing and spreading the liquid fuel in front thereof, and propeller blades extending from the periphery for producing a current of air and projecting the same forward straight into the spread and atomized liquid fuel at an angle thereto.

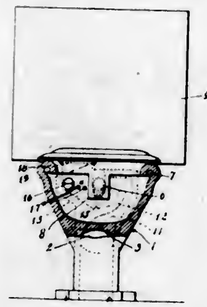
1,430,416. PUMPING MECHANISM. JAMES F. THOMAS, Montreal, Quebec, Canada. Filed Oct. 27, 1921. Serial No. 510,917. 9 Claims. (Cl. 103—171.)



1. In a mechanism of the class specified, a rocking cylinder having interior plastic walls and provided with intake and discharge connections at opposite ends, the intake and discharge connections being provided with reversely opening valves, a piston freely slidable in the cylinder and operable by gravitating movement thereof alternately towards opposite ends of the cylinder, the cylinder and piston being angular in contour and having a snug relative fit, a single pipe connection for each inlet and outlet at opposite ends of the cylinder, and means for rocking the cylinder, piston and connections as a unit.

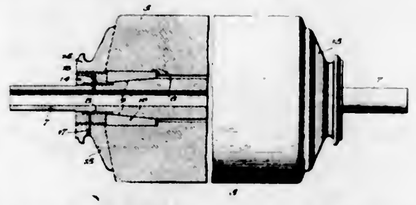
1,430,417. TOILET BOWL. LEWIS D. TUCKER, Gloucester, Mass. Filed July 26, 1920. Serial No. 398,868. 1 Claim. (Cl. 4—22.)

A bowl having an outlet and having a conductor pipe extending transversely through the wall of the bowl adjacent the upper end thereof for supplying water to the bowl, the bowl having in its walls a vertically disposed overflow passage having its lower end communicating with the outlet of the bowl and having its upper end portion provided with arms extending upon opposite sides of the conductor pipe, one arm having a side opening forming an inlet communicating with the interior of the bowl, and a baffle plate positioned in the upper portion of the overflow passage at the lower end of the arm thereof and extending beneath and partially about



the water supply pipe of the bowl to provide a water seal sink, the water supply pipe of the bowl having an opening for feeding water to the water seal sink.

1,430,418. STONE PRESS ROLL. JOHN WARREN VEDDER, Worcester, Mass. Filed Aug. 30, 1921. Serial No. 496,820. 8 Claims. (Cl. 92—49.)



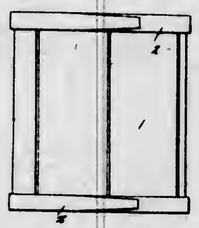
1. In a roll, the combination of a stone body having a central bore, a metal shaft extending through said bore and projecting at both ends of the stone body to constitute bearings on the roll for engagement with supporting bearings, and means securing said stone body upon said shaft said means including at one or both ends of the roll a bushing or sleeve on the shaft fitting in the end of the bore of the stone body member and having an exterior surface adapted to tightly engage the opposing surface of said bore and said bushing having an interior surface adapted to closely fit the opposing surface of the shaft member, the opposing surfaces of said bushing and of one of said members being correspondingly tapered and said bushing being movable longitudinally to the shaft without rotary movement relative to the stone body in bringing the bushing to its position between the shaft and stone body, and means engaging the shaft and adapted to be brought into engagement with the end of the bushing without engaging the stone body to secure the bushing in place.

1,430,419. BARREL OR DRUM CONSTRUCTION. JOSEPH L. WALKER, Baton Rouge, La., assignor to K-D Barrel and Hamper Co., Baton Rouge, La. Filed June 11, 1921. Serial No. 476,855. 4 Claims. (Cl. 217—96.)



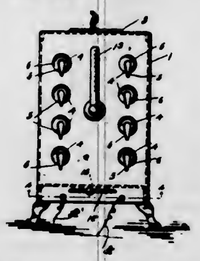
1. A container including strips of veneer each having its outer face beveled along opposed longitudinal edges, said levels being concaved, the concaved bevel along one edge of each strip lapping and contacting with the inner face of the next adjoining strip.

1,430,420. VENEER DRUM OR THE LIKE. JOSEPH L. WALKER, Baton Rouge, La., assignor to K-D Barrel and Hamper Co., Baton Rouge, La. Filed July 11, 1921. Serial No. 476,856. 1 Claim. (Cl. 217—89.)



The combination with a container, of means for fastening a head thereto, said means comprising a single strip of bendable metal having a recess in one end forming spaced prongs, said prongs being extended at right angles from the strip for insertion into the wall of the container, an offset intermediate portion formed by the strip and constituting a head supporting shoulder and an inclined brace for the shoulder, one end of the strip being bendable onto the supported head to hold it on the shoulder, and fastening means extending through the strip between the prongs and the brace and into the wall of the container, said prongs constituting means for holding the wall against splitting by the fastening means, and a fastening device insertible through the bendable end of the strip for fastening it to the supported head.

1,430,421. STERILIZER. ALLEN J. WALTER, Mansfield, Ohio. Filed Sept. 15, 1920. Serial No. 410,450. 4 Claims. (Cl. 219—35.)



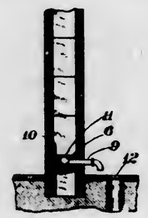
1. In a sterilizer a container, means to heat the interior of the container, and tubular receptacles communicating with openings in a wall of the container.

1,430,422. PAIR OF SUSPENDERS. JOHN T. WATTS, Los Angeles, Calif. Filed May 18, 1921. Serial No. 470,554. 3 Claims. (Cl. 241—28.)



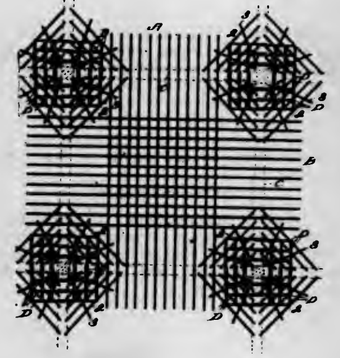
1. A pair of suspenders comprising a pair of shoulder straps; attaching means connected to the front ends of said straps; upper guides secured to the back end of said straps; a looped cord slidably extending through said guides; a pivot member secured to each leg of said cord; a loop guide on each pivot member through which the loop in the cord slidably extends; slip bands on said cord between said loop guides; an adjustable tie strap connecting the legs of the cord together; and a buttonhole tip on each end of said cord.

1,430,423. FOOTING FOR CELLAR WALLS. CHARLES F. WEICHOLD, Worthington, Ohio. Filed Mar. 20, 1922. Serial No. 544,993. 4 Claims. (Cl. 72—10.)



1. A footing for a wall having a substantially horizontally extending water collecting channel in its top and an outlet for the collected water.

1,430,424. CONCRETE FLOOR CONSTRUCTION. HEWITT L. WELLS, Washington, D. C., assignor to T-Beam Engineering Company, Washington, D. C., a Corporation of the District of Columbia. Filed Dec. 22, 1921. Serial No. 524,052. 10 Claims. (Cl. 72—15.)

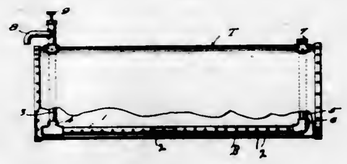


1. A concrete floor including supporting columns, beams spanning the space between such columns, and a concrete slab having a plurality of spaced apart reinforcing steel bars arranged in two series at right angles to each other and supported by said beams, in combination with reinforcing elements at the bottom of the slab in the space adjacent said column defined by beams or other supporting means between columns lying at right angles to each other.

1,430,425. WATER DRAIN FOR GASOLINE TANKS. JOSEPH WIDME, Twin Valley, Minn. Filed Mar. 1, 1920. Serial No. 362,499. 1 Claim. (Cl. 210—51.)

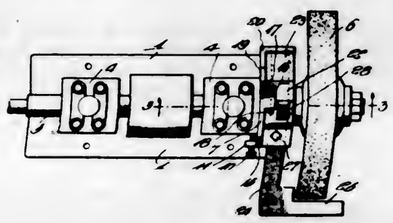
The combination with an oil storage tank, of a perforated pipe, said perforations increasing from small at

one end of pipe to large at the other; an upstanding discharge pipe connected at first mentioned end of pipe, a plunger mounted in said discharge pipe to create a suc-



tion, an upstanding air inlet pipe connected at opposite end of longitudinal perforated pipe, both of said upstanding pipes extending above the tank, and a cap having an aperture mounted on end of said air inlet pipe.

1,430,426. WORK SUPPORT FOR GRINDING MACHINES. MARCO GIOVANNI ZONGARO, Portland, Oreg. Filed Sept. 19, 1921. Serial No. 501,680. 6 Claims. (Cl. 51—238.)



1. A work support comprising an arm adapted to pivot about the arbor of a grinding wheel, said arm having a

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1,430,428. HYDROCARBON-OIL BURNER. GEORGE F. ALLEN, Oronogo, Mo. Filed Mar. 30, 1920. Serial No. 369,845. 1 Claim. (Cl. 158—75.)



A hydrocarbon burner including a casing having a vlave seat, means of fuel supply leading to said casing, a valve in said casing cooperating with said seat to control the supply of fuel therethrough, a fuel supply pipe leading to said casing, a tip in the outlet end of said pipe, a needle extending from said valve and cooperating with the tip as a valve therefor, a jacket about said pipe in communication with a source of fluid supply, a head engaging said pipe and said jacket, a nozzle for said jacket having a constricted end disposed in advance of said pipe and jacket, a sleeve disposed in said constricted portion, and a burner nipple extending from said sleeve.

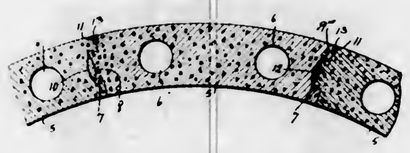
1,430,429. SPARK PLUG. THOMAS T. BATHURST, Kansas City, Mo. Filed Nov. 12 1921. Serial No. 514,433. 4 Claims. (Cl. 123—169.)



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ing members mounted adjacent said foot rest, selective means to reciprocate one of the polishing members in contact with the shoe and means to rotate the polishing set upon cessation of the reciprocatory motion thereby to bring the other polishing members into successive operating position.

1,430,431. BUILDING BLOCK. MARTIN L. BINKLEY, Lima, Ohio. Filed Sept. 7, 1918. Serial No. 253,063. 1 Claim. (Cl. 72—38.)

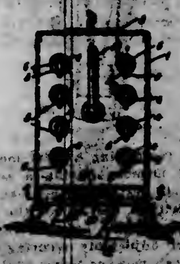


In combination, a plurality of building blocks, one end of each block being provided with a dovetailed tongue, the opposite end of said block having a dovetailed groove corresponding to and receiving the dovetailed tongue of an adjacent block, the bottom wall of the groove and the face wall of the tongue having oppositely curved longitudinally extending concavities, which register and form a space for the reception of a binding agent, which constitutes means to spread the blocks and force the undercut walls of the dovetailed tongue and groove into binding contact, the concavities being of less width than the width of the tongue and groove, whereby the tongue and groove may tightly interengage, the adjacent corner end faces of the blocks adjacent their outer faces having correspondingly shaped vertically extending rabbets for mating relation and receiving a binding agent for additionally holding the blocks together.

1,430,432. CONICAL OR CYLINDER GRINDING MILL.

angles from the strip for insertion into the wall of the container, an offset intermediate portion formed by the strip and constituting a head supporting shoulder and an inclined brace for the shoulder, one end of the strip being bendable onto the supported head to hold it on the shoulder, and fastening means extending through the strip between the prongs and the hinge and into the wall of the container, said prongs constituting means for holding the wall against splitting by the fastening means, and a fastening device insertible through the bendable end of the strip for fastening it to the supported head.

1,430,421. STERILIZER. ALVIN J. WALTER, Mansfield, Ohio. Filed Sept. [illegible] 1920. Serial No. 410,450. 4 Claims. (Cl. 219—[illegible])



1. In a sterilizer a container, means to heat the interior of the [illegible] and tubular receptacles communicating with [illegible] in a wall of the container.

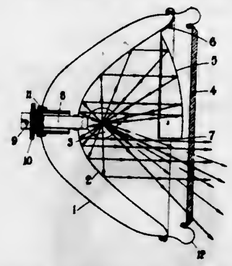
1,430,422. PAIR OF [illegible]. JOHN T. WALSH, Los Angeles, Calif. Filed May 13, 1921. Serial No. 470,554. 2 Claims. (Cl. [illegible])



1. A pair of [illegible] straps; [illegible]

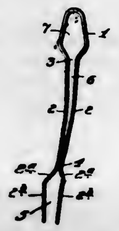
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mental parabolic reflecting surface extending to or slightly below the axis of the head light, the reflecting surfaces



having a common focal point but different focal lengths, the source of light being located at the common focal point.

1,430,434. HAIRPIN. WILLIAM H. BURNS, Chicago, Ill. Filed June 23, 1919. Serial No. 306,095. 4 Claims. (Cl. 132—50.)

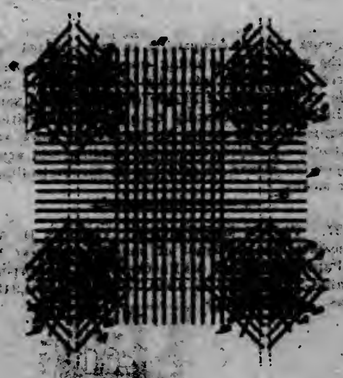


4. A hairpin comprising an arrow-head shaped loop having rounded corners and constricted at its base to

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1. A footing for a wall having a substantially horizontally extending water collecting channel in its top and an outlet for the collected water.

1,430,424. CONCRETE FLOOR CONSTRUCTION. HEWITT L. WELLS, Washington, D. C., assignor to T-Beam Engineering Company, Washington, D. C., a Corporation of the District of Columbia. Filed Dec. 22, 1921. Serial No. 534,062. 10 Claims. (Cl. 72—15.)

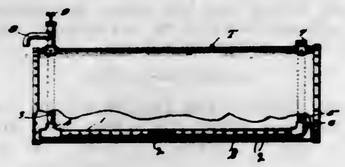


1. A concrete floor [illegible] supporting columns, beams spanning the space between such columns, and a concrete slab having a plurality of spaced apart reinforcing steel bars arranged in two angles at right angles to each other and supported by said beams, in combination with reinforcing elements at the bottom of the slab in the space adjacent said column defined by beams or other supporting means between columns lying at right angles to each other.

1,430,[illegible]. WATER [illegible] FOR GASOLINE TANKS. [illegible] Wilde, Twin Valley, Minn. Filed Mar. 1, 1920. Serial No. 362,498. 1 Claim. (Cl. 210—51.)

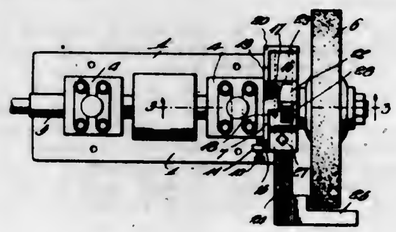
[illegible] combustible with an oil storage tank; [illegible] pipe, said pipe [illegible] extending from said

one end of pipe to large at the other; an upstanding discharge pipe connected at first mentioned end of pipe, a plunger mounted in said discharge pipe to create a suc-



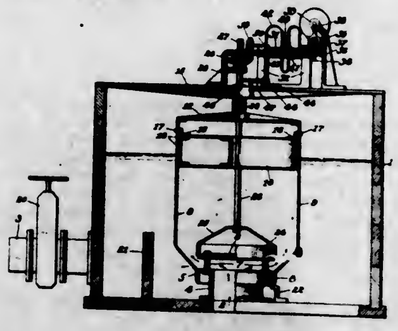
tion, an upstanding air inlet pipe connected at opposite end of longitudinal perforated pipe, both of said upstanding pipes extending above the tank, and a cap having an aperture mounted on end of said air inlet pipe.

1,430,426. **WORK SUPPORT FOR GRINDING MACHINES.** MARCO GIOVANNI ZONGARO, Portland, Oreg. Filed Sept. 19, 1921. Serial No. 501,680. 6 Claims. (Cl. 51—238.)



1. A work support comprising an arm adapted to pivot about the arbor of a grinding wheel, said arm having a work rest, means for pivotally mounting said arm at one side of the wheel, a handle connected with said arm for swinging it downwardly to operatively position the work support or upwardly to move said work support to an inactive position, means for holding said arm, and hand operated means on said handle for controlling said holding means.

1,430,427. **VALVE MECHANISM.** CARLTON H. ALLEN, Millinocket, Me., assignor of one-half to Great Northern Paper Company, Millinocket, Me., a Corporation of Maine. Filed May 28, 1920. Serial No. 384,943. 15 Claims. (Cl. 92—46.)



1. A valve mechanism of the character described comprising a valve element having an annular port therein,

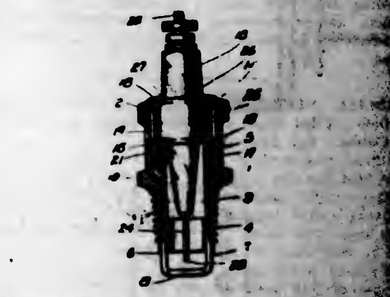
an annular element for closing said port more or l... and means for relatively moving said elements to v... the flow of fluid through said port.

1,430,428. **HYDROCARBON-OIL BURNER.** G... ALLEN, Oronogo, Mo. Filed Mar. 30, 1920. Serial ... 369,845. 1 Claim. (Cl. 158—75.)



A hydrocarbon burner including a casing having ... vlave seat, means of fuel supply leading to said casi... a valve in said casing cooperating with said seat to co... trol the supply of fuel therethrough, a fuel supply p... leading to said casing, a tip in the outlet end of ... pipe, a needle extending from said valve and cooperat... with the tip as a valve therefor, a jacket about said p... in communication with a source of fuel supply, a ... engaging said pipe and said jacket, a sleeve disposed in ... said pipe and jacket, a sleeve disposed in said ... portion, and a burner nipple extending from said ...

1,430,429. **SPARK PLUG.** THOMAS T. RATHBONE, ... City, Mo. Filed Nov. 12 1921. Serial No. ... 4 Claims. (Cl. 123—169.)



1. A spark plug comprising a shirt member and ... member, the skirt member having a seat, a ... having a shoulder to rest upon the seat, the arc of ... shoulder being less than the arc of the seat, ... line of contact is provided between the porcelain ... the seat means for adjustably securing the cap ... skirt member, the cap member being adapted to ... hold the porcelain rigid with respect to the ... ber and adapted to be adjusted on the ... allow the porcelain to reciprocate from and ...

1,430,430. **SHOE-POLISHING MACHINE.** ... VILLE, San Francisco, Calif., assignor ... Manufacturing Co., Inc., San Francisco, ... poration of California. Filed Jan. 14, ... No. 351,400. 22 Claims. (Cl. 15—83.)



1. In a shoe-polishing machine, a foot, ... support a shoe to be polished, a ...

ing members mounted adjacent said foot rest, selective means to reciprocate one of the polishing members in contact with the shoe and means to rotate the polishing set upon cessation of the reciprocatory motion thereby to bring the other polishing members into successive operating position.

1,430,431. **BUILDING BLOCK.** MARTIN L. BIXELEY, Lima, Ohio. Filed Sept. 7, 1918. Serial No. 253,063. 1 Claim. (Cl. 72—38.)



In combination, a plurality of building blocks, one end of each block being provided with a dovetailed tongue, the opposite end of said block having a dovetailed groove corresponding to and receiving the dovetailed tongue of an adjacent block, the bottom wall of the groove and the face wall of the tongue having oppositely curved longitudinally extending convexities, which register and form a space for the reception of a binding agent, which constitutes means to spread the blocks and force the undercut walls of the dovetailed tongue and groove into binding contact, the convexities being of less width than the width of the tongue and groove, whereby the tongue and groove may tightly interengage, the adjacent corner and faces of the blocks adjacent their outer faces having correspondingly shaped vertically extending rabbets for mating relation and receiving a binding agent for additionally holding the blocks together.

1,430,432. **CONICAL OR CYLINDER GRINDING MILL.** ATTALUS C. BITTNER, Clinton, Iowa. Filed Apr. 18, 1922. Serial No. 554,796. 5 Claims. (Cl. 83—9.)

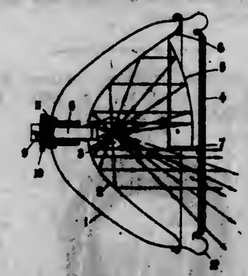


1. A grinding mill of the character specified, having a discharge device comprising radial spaced walls arranged in alternation with ... sections.

1,430,433. **HEADLAMP FOR AUTOMOBILES.** ... BROWN, Calgary, Alberta, Canada. Filed Dec. 15, 1920. Serial No. 431,020. ... Claims. (Cl. ... 240.4.)

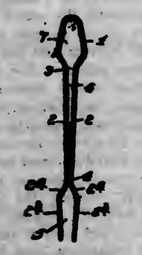
1. The combination ... reflecting head light of a casing, a light source, ... light reflecting means, a front glass for the casing, ... means supporting means comprising a rear parabolic ... means, and a frame hav-

mental parabolic reflecting surface extending to or slightly below the axis of the head light, the reflecting surfaces



having a common focal point but different focal lengths, the source of light being located at the common focal point.

1,430,434. **HAIRPIN.** WILLIAM H. BURNS, Chicago, Ill. Filed June 23, 1919. Serial No. 306,095. 4 Claims. (Cl. 132—50.)



4. A hairpin comprising an arrow-head shaped loop having rounded corners and constricted at its base to provide a comparatively narrow throat, arms extending outwardly from opposite sides of the throat and converging throughout a length of from two to three times the length of the loop, the arms terminating in tips first flaring outwardly and then converging throughout a length substantially equal to the length of the loop and defining an area approximately equal thereto.

1,430,435. **SAFETY BOTTLE.** FRANCISCO CLARK, Durango, Mexico. Filed Sept. 16, 1921. Serial No. 501,105. 6 Claims. (Cl. 215—32.)



4. A container of the class described having a cap formed with a depending annular flange to extend about

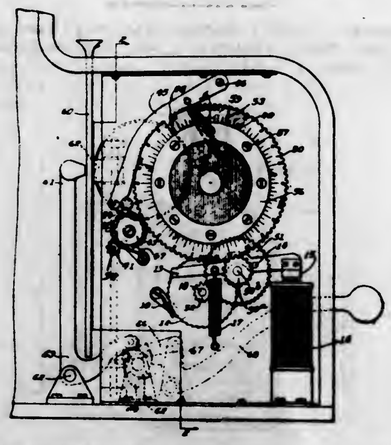
the upper portion of a bottle neck, the said flange and the bottle neck having opposed channels, a split ring accommodated in said channels, and a glass disk on top of the bottle neck beneath the cap.

1,430,436. AUTOMOBILE TIRE. MARTIN S. CORBETT, Glassboro, N. J. Filed July 2, 1921. Serial No. 482,208. 1 Claim. (Cl. 152—18.)



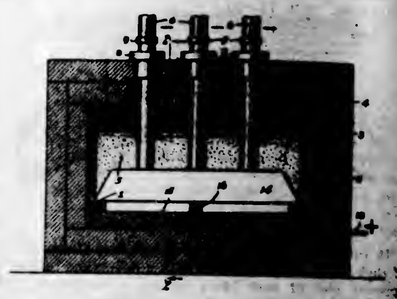
The combination with a rubber tire casing, of a plurality of coil springs embedded in the casing transversely thereof and immediately adjacent the outer surface of the tire, a plurality of series of coil springs embedded in the tire between the first coil springs and the inner surface of the tire casing, one series adjacent the inner surface of the tire casing, the other series immediately adjacent the transverse springs and the inner series, said series of coil springs extending circumferentially of the tire and at right angles to the transverse springs, the intermediate circumferentially arranged springs being in staggered relation, whereby the convolutions of the inner series register with the spaces between the outer series of said circumferentially arranged springs, thereby preventing the penetration of a sharp object and the puncturing of the inner tube, the transverse and intermediate circumferential springs terminating a short distance from the rim engaging flanges of the tire casing, thereby leaving the flanges to be freely flexible, whereby they may be easily and quickly engaged and disengaged on and from the rim.

1,430,437. TIME INDICATOR. CHARLES M. CROOK, Chicago, Ill. Filed Sept. 4, 1919. Serial No. 321,627. 22 Claims. (Cl. 234—43.)



5. The combination with a rotatable indicating wheel having two sets of indicia thereon, of means for moving said wheel to bring said indicia to an indicating position and means for automatically shifting said wheel to change the sets of indicia without interfering with the progressive movement of the wheel.

1,430,438. ELECTRIC FORGING AND HEAT-TREATING FURNACE. FREDERICK G. DAWSON, Detroit, Mich. Filed Jan. 11, 1921. Serial No. 436,617. 3 Claims. (Cl. 204—64.)



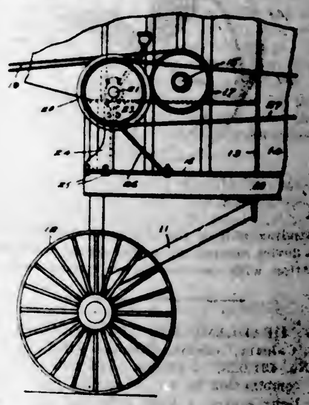
1. An electric furnace comprising a heating chamber, a common electrode within said heating chamber, a plurality of other electrodes extending into the chamber and bearing upon a surface of the common electrode, the other electrodes bearing on the common electrode by reason of their weight, and means for adjusting the pressure between the common electrode and the other electrodes.

1,430,439. COLLAPSIBLE CORE FOR HOLLOW CONCRETE WALLS. EDWIN JAMES EDDY, Otahuhu, Auckland, New Zealand. Filed Aug. 2, 1921. Serial No. 489,225. 5 Claims. (Cl. 25—131.)



5. A collapsible core for hollow concrete walls comprising separate sides, end pieces carried by each side mounted to swing thereon, distance plates attached to each side, and retaining means carried by the end pieces of the other side adapted to engage said distance plates.

1,430,440. DRIVING ATTACHMENT FOR THRASHERS. CHARLES M. ELLIOTT, Minier, Kans. Filed Mar. 21, 1921. Serial No. 455,287. 6 Claims. (Cl. 74—21.)



1. In a thrasher, the combination with [illegible] pulley and driving belt of a power pulley [illegible]

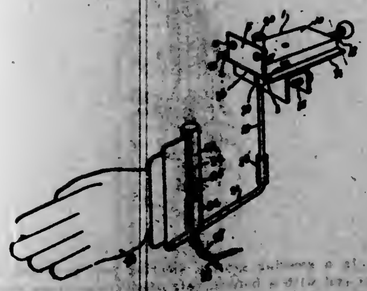
flecting relation with the return run of the driving belt adjacent to the cylinder pulley to increase the bearing contact of the belt with the cylinder pulley, and a blower pulley carried by the shaft of said power pulley for actuating the blower driving belt.

1,430,441. SCRAPER ATTACHMENT FOR VARIOUS BRUSHES. CANUTE E. PEDERSEN and CARL W. FORSBERG, Patton, Pa. Filed Mar. 6, 1922. Serial No. 541,556. 3 Claims. (Cl. 15—111.)



1. In a scraper attachment, a folded strip of metal adapted to be mounted on a body, means for spacing the plies of the strip, a scraping blade pivoted between the plies, one end of one of the plies having a notch, and a roll extending longitudinally along the back edge of the blade and having a projecting portion to engage the shouldered end of the notch to limit the blade in its open position.

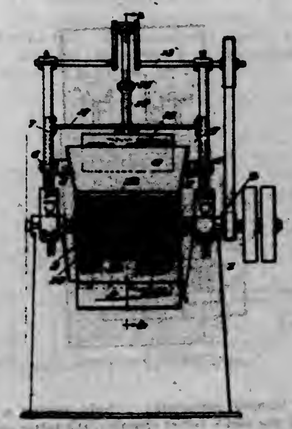
1,430,442. AUTOMOBILE SIGNALING DEVICE. WILLIAM EDWARD FRANCIS GIBSON, Vancouver, British Columbia, Canada, assignor of one-half to Andrew Johnston, Vancouver, Canada. Filed Mar. 11, 1922. Serial No. 542,982. 6 Claims. (Cl. 116—47.)



1. An automobile signaling device comprising a pivoted rod provided on its upper end with a pinion and [illegible] right angles at its [illegible] dicating member, a [illegible] pinion having [illegible] plate carrying said [illegible] clamp member [illegible]

1,430,443. [illegible] Brighton, Pa. [illegible] 2 Claims. [illegible] 1. In a [illegible] brush and [illegible]

on one side thereof, of a hopper arranged above the brush and having a throat over which said brush extends, a feeder plate movable within said hopper above said throat, and means for reciprocating said feeder plate.

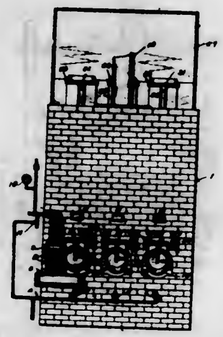


1,430,444. SPRING WHEEL. HENRY GREENOUGH, New Brighton, Pa. Filed Feb. 10, 1921. Serial No. 443,629. 8 Claims. (Cl. 152—33.)



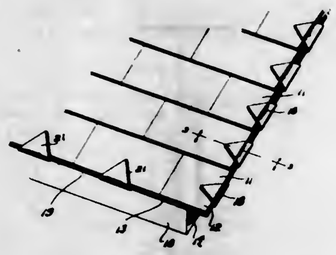
1. A [illegible] wheel [illegible] hub and [illegible] spokes [illegible] [illegible] [illegible]

1,430,445. ORE-TREATING FURNACE. CLAYMON C. GRIMES, Idria, Calif. Filed Mar. 26, 1919. Serial No. 285,229. 2 Claims. (Cl. 266—19.)



1. A furnace comprising a body having a vertically disposed flue and a retort chamber, the latter communicating at its lower end with the flue at an intermediate point and inclining upwardly and laterally therefrom, a retort pipe within the retort chamber and extending across the said flue, and a perforated fume collecting pipe located within the upper portion of the retort pipe.

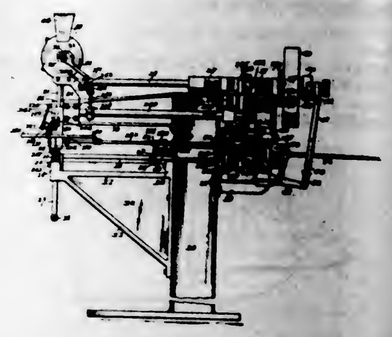
1,430,446. ROOF-EDGING DEVICE. FRANCIS W. HENNESSY, Providence, R. I. Filed Feb. 21, 1922. Serial No. 538,377. 1 Claim. (Cl. 108—26.)



In combination with a flexible-shingle covering for a roof, of a roof edging comprising a strip of sheet metal having a portion extending over the roof under the shingles then folded down and doubled back upon itself to lie against and be secured to the edge of the roof-boards, then extending outwardly laterally to support the overhanging edge portion of the shingles and provided on the edge with spaced-apart bendable fingers to be folded over the outer edge of each top course of the shingles.

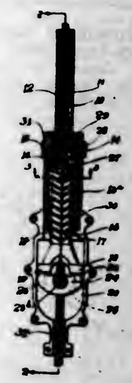
1,430,447. TRUNK-RIVETING MACHINE. THOMAS M. HOVAN and HARRY R. MCCONNELL, Richmond, Va., assignors to Seward Trunk and Bag Company, Petersburg, Va., a Corporation of Virginia. Filed July 14, 1920. Serial No. 396,110. 43 Claims. (Cl. 218—3.)

20. A riveting mechanism of the character described including a supporting column having an outwardly projecting bracket on one face, a work supporting anvil mounted upon said bracket and having oppositely inclined faces, a supporting rod extending rearward from the work supporting anvil to the column, and container supporting



means slidably mounted upon said rod, the anvil being provided with downwardly divergent arms carrying rollers at their lower ends.

1,430,448. STEERING GEAR. JAMES A. HOUPE, Dyer, Tenn. Filed Apr. 18, 1922. Serial No. 554,629. 6 Claims. (Cl. 74—79.)

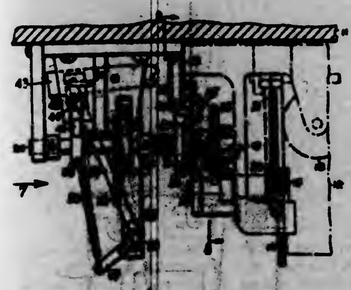


1. In a steering gear, a steering post provided in its lower end with a bore, a pair of sleeve sections mounted within the bore and each provided at its lower end with a tappet face, means connecting the steering post and sections whereby rotation of the steering post causes longitudinal movement of the sections in opposite directions, and a shaft having portions engaged by the tappet faces of said sections.

1,430,449. METHOD OF PREPARING ALUMINUM-CHLORIDE CRYSTALS. HENRY HOWARD, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 6, 1922. Serial No. 541,573. 6 Claims. (Cl. 23—13.)

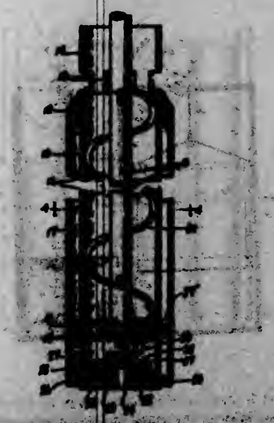
1. The method of preparing crystals of aluminum chloride which comprises introducing hydrochloric acid gas into a concentrated solution of aluminum chloride, and freeing the precipitated crystals from adhering acid by washing with basic aluminum chloride solution.

1,430,450. REPLAYING DEVICE FOR TALKING MACHINES. RUSSELL E. HOWARD, Windham, Vt. Filed July 22, 1920. Serial No. 398,094. 20 Claims. (Cl. 274—15.)



1. In a talking machine, the combination with an operating motor and a tone arm, of an element operated by the motor, yielding means for constantly tending to hold said element in condition for being operated by the motor, positive means for disconnecting said element from the motor, means operated by the motion of the tone arm for rendering said disconnecting means inoperative, and means operated by said element for moving the tone arm to a position to repeat.

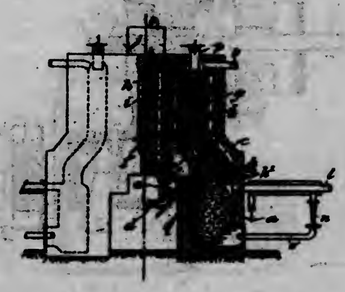
1,430,451. CONCRETE-CASING-MAKING MACHINE. CHARLES H. LAZARUS, Valentine, Tex. Filed Dec. 6, 1920. Serial No. 428,712. 7 Claims. (Cl. 25—128.)



7. A device of the character described comprising a barrel, a cylinder [illegible] mounted within the barrel, gear operated means connecting the cylinder, a rotating head rotatably mounted on the barrel and the cylinder and barrel and [illegible] tatably mounted [illegible] end of said [illegible] lower end of said [illegible] tension adapted [illegible] per end of said [illegible] engaged [illegible] tatably [illegible]

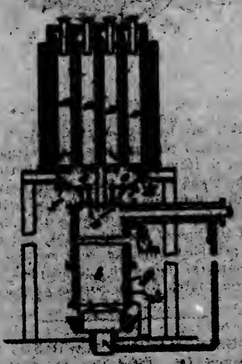
driving said gear in either direction, and locking means associated with said gear and said member whereby to lock the tube for rotation as one.

1,430,452. COMBINED GAS GENERATOR AND RETORT APPARATUS. GEORGE PEARCE LEWIS, London, England. Filed Feb. 13, 1922. Serial No. 536,307. 8 Claims. (Cl. 48—122.)



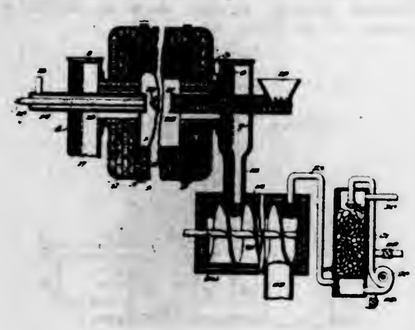
1. Apparatus for distilling and purifying solid carbonaceous matter, said apparatus comprising in combination a chamber, the lower portion of which forms a generator and the upper portion a retort, the axis of the generator being eccentric to the axis of the retort, means for admitting air and steam to the generator, a combustion chamber situated close to the lower portion of the retort, means for the admission of a moisture saturated blast to the generator and means for heating said blast by the producer gases generated in and withdrawn from the generator.

1,430,453. COMBINED VERTICAL RETORT AND GAS-GENERATOR APPARATUS. GEORGE PEARCE LEWIS, London, England. Filed Feb. 13, 1922. Serial No. 536,308. 5 Claims. (Cl. 48—122.)



8. Apparatus for distilling and purifying solid carbonaceous matter, said apparatus comprising in combination a chamber, the lower portion of which forms a generator and the upper portion a retort, a [illegible] chamber, [illegible] a [illegible] of [illegible] between said retort and said generator, [illegible] means for [illegible] with [illegible] and [illegible] said [illegible] said [illegible] the [illegible] the [illegible] said [illegible] the [illegible]

1,430,454. CHLORIDIZING PROCESS AND APPARATUS. Frank S. Low, Niagara Falls, N. Y., assignor to Niagara Alkali Company, Niagara Falls, N. Y., a Corporation of New York. Filed Dec. 27, 1920. Serial No. 433,470. 6 Claims. (Cl. 75—12.)



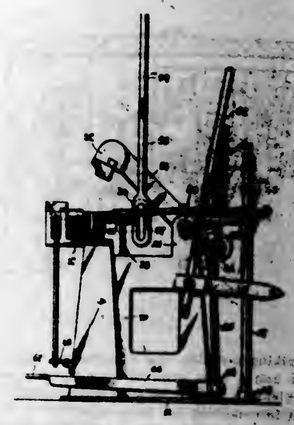
1. In the chloridising of materials with the aid of heat, the process which comprises burning hydrogen and chlorin together in proximity to the material to be chloridized.

1,430,455. COLLAPSIBLE FRUIT BOX. Roy Eugene Lowry, Huntington, Ind. Filed May 23, 1921. Serial No. 471,665. 1 Claim. (Cl. 229—23.)



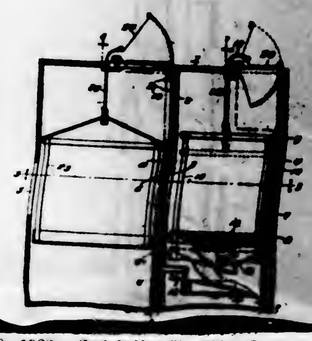
A knock-down box formed of two foldable blanks provided with weakened folding lines, said blanks being connected together to form, respectively, the bottom and sides of the box, the blank for the sides being provided with a plurality of lips bent upwards from the bottom thereof, and the bottom blank being provided with

swinging link clamping members, having engageable [illegible] said members to shift the same into entire position [illegible]

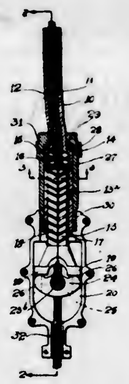


means for simultaneously actuating the said [illegible] ing means for holding the levers in active position.

1,430,457. TRAP NEST. William H. [illegible] more, Ill., assignor of forty-nine per cent to [illegible] Ronin and Guy W. Morgan, Sycamore, Ill.; [illegible] 15, 1922. Serial No. 552,992. 3 Claims. (Cl. 119—[illegible])



Tenn. Filed Apr. 18, 1922. Serial No. 554,620. 8 Claims. (Cl. 74—79.)



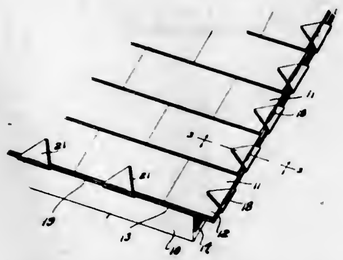
1. In a steering gear, a steering post provided in its lower end with a bore, a pair of sleeve sections mounted within the bore and each provided at its lower end with a tappet face, means connecting the steering post and sections whereby rotation of the steering post causes longitudinal movement of the sections in opposite directions, and a shaft having portions engaged by the tappet faces of said sections.

1,430,449. METHOD OF PREPARING ALUMINUM-CHLORIDE CRYSTALS. Henry Howard, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 6, 1922. Serial No. 541,573. 6 Claims. (Cl. 23—13.)

1. The method of preparing crystals of aluminum chloride which comprises introducing hydrochloric acid gas into a concentrated solution of aluminum chloride, and freeing the precipitated crystals from adhering acid by washing with basic aluminum chloride solution.

said flue, and a perforated fume collecting pipe located within the upper portion of the retort pipe.

1,430,446. ROOF-EDGING DEVICE. Francis W. Hennessy, Providence, R. I. Filed Feb. 21, 1922. Serial No. 538,377. 1 Claim. (Cl. 108—26.)



In combination with a flexible-shingle covering for a roof, of a roof edging comprising a strip of sheet metal having a portion extending over the roof under the shingles then folded down and doubled back upon itself to lie against and be secured to the edge of the roof-boards, then extending outwardly laterally to support the overhanging edge portion of the shingles and provided on the edge with spaced-apart bendable fingers to be folded over the outer edge of each top course of the shingles.

[illegible]47. TRUNK-RIVETING MACHINE. Thomas M. [illegible] and Harry R. McConnell, Richmond, Va., as[illegible]to Seward Trunk and Bag Company, Peters[illegible], a Corporation of Virginia. Filed July 14, [illegible]rial No. 396,110. 43 Claims. (Cl. 218—8.)

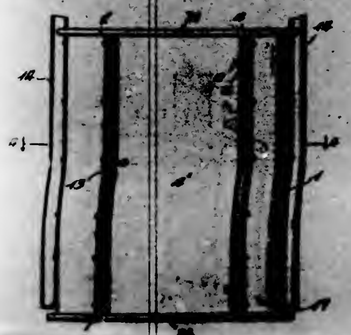
[illegible]ring mechanism of the character described [illegible]upporting column having an outwardly pro[illegible]et on one face, a work supporting anvil [illegible] said bracket and having oppositely inclined

1,430,458. GREASE-CUP PLUG. [illegible] Stanley B. Mellason, [illegible], Wakefield, Mass., assignors of one-third to Frank F. Coggin, Somerville, Mass., and one-third to R. P. Whitcher, Melrose, Mass. Filed Mar. 25, 1922. Serial No. 546,600. 5 Claims. (Cl. 184—46.)



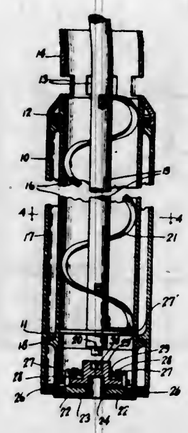
4. A grease-cup plug [illegible]ternally threaded and provided with a cavity which is open at the outer end, and with a lateral guiding orifice [illegible] a portion of the screw thread, a locking-dog [illegible] in said orifice, and projecting into the cavity, a plunger movable in said cavity, a spring exerting an outward pressure on the plunger, the plunger being provided with an inclined bearing face, whereby the dog is projected to a locking position, when the plunger is moved outward by the spring, the dog being releasable from its locking position by an inward movement of the plunger, the plunger being provided with a laterally projecting pin, and the plug with a pin-receiving orifice formed to cooperate with the pin in imparting rotary movement from the plunger to the plug, the plunger being formed at its outer end to be engaged by a tool.

1,430,459. COLLAPSIBLE JACKET FOR FOUL-AIR REMOVERS. John [illegible]Nulty, Gulfport, Miss. Filed Aug. 31, 1921. Serial No. 497,204. 7 Claims. (Cl. 126—67.)



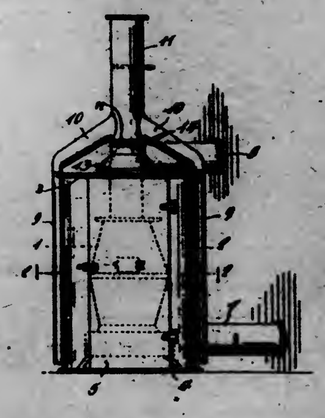
[illegible] by said element for moving the tone arm to a position to repeat.

1,430,451. CONCRETE-CASING-MAKING MACHINE. Charles H. Larriter, Valentine, Tex. Filed Dec. 6, 1920. Serial No. 428,712. 7 Claims. (Cl. 25—128.)



7. A device of the character described comprising a barrel, a cylinder rotatably mounted within the barrel, gear operated means for rotating the cylinder, a cutter head rotatably mounted at the lower end of the cylinder and barrel and formed with an angular socket, a shaft rotatably mounted within the cylinder, a disk at the lower end of said shaft forming a closure for the cylinder, the lower end of said shaft being formed with an angular extension adapted for engagement within said socket, the upper end of said shaft being threaded, a member threadedly engaged upon the upper end of said shaft, a ring gear rotatably mounted with respect to said member, means for

interior of said casing beneath the heating element, and means for conveying the foul air, comprising a pipe disposed in spaced relation above said casing, conduits in connection with said pipe, said conduits being carried on the exterior sides of the casing and extending thereabove to



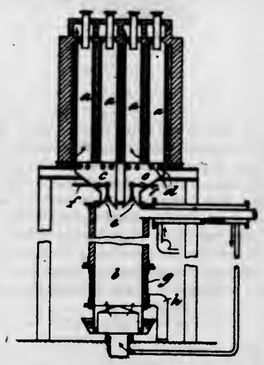
form supports for said foul air pipe, the top of said casing being open to permit of the heated air in the interior of the said casing circulating about said foul air pipe, whereby a circulation of foul air is set up within said conduits and pipe.

1,430,461. VALVE ATTACHMENT FOR PNEUMATIC TIRES. Armand Jules Michelin, Clermont-Ferrand, France. Filed Aug. 17, 1921. Serial No. 493,077. 1 Claim. (Cl. 152—12.)



In a valve for pneumatic tires, the combination with a hollow valve casing provided with a tapered valve seat therein, and a pointed valve seat at the outer end thereof, of a valve stem provided with a pointed conical valve adapted to fit on said valve seat, said valve stem being being provided with an [illegible] passageway and leading through [illegible] expanded by an annular groove, [illegible] passage communicating with [illegible]

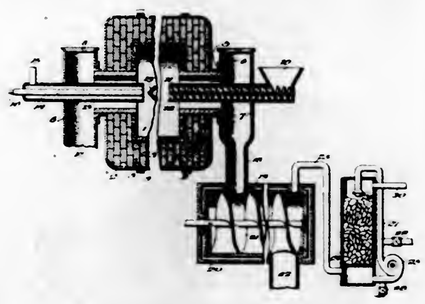
1,430,453. COMBINED VERTICAL RETORT AND GAS-GENERATOR APPARATUS. George Pearce Lewis, London, England. Filed Feb. 13, 1922. Serial No. 536,308. 5 Claims. (Cl. 48—123.)



3. Apparatus for distilling and gasifying solid carbonaceous matter, said apparatus comprising in combination a vertical generator and a plurality of vertical retorts, a funnel shaped chamber between said retorts and said generator and means for regulating and facilitating the passage of said solid carbonaceous matter from each retort to the generator.

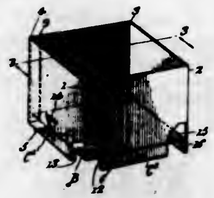
matter, said apparatus comprising in combination a chamber, the lower portion of which forms a generator and the upper portion a retort, the axis of the generator being eccentric to the axis of the retort, means for admitting air and steam to the generator, a combustion chamber situated close to the lower portion of the retort, means for the admission of a moisture saturated blast to the generator and means for heating said blast by the producer gases generated in and withdrawn from the generator.

1,430,454. CHLORIDIZING PROCESS AND APPARATUS. FRANK S. LOW, Niagara Falls, N. Y., assignor to Niagara Alkali Company, Niagara Falls, N. Y., a Corporation of New York. Filed Dec. 27, 1920. Serial No. 433,470. 6 Claims. (Cl. 75—12.)



1. In the chloridizing of materials with the aid of heat, the process which comprises burning hydrogen and chlorin together in proximity to the material to be chloridized.

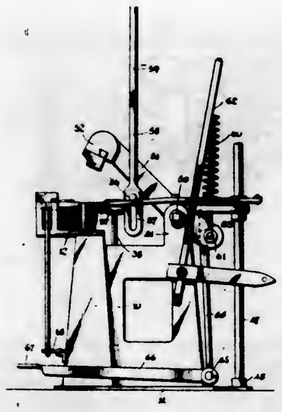
1,430,455. COLLAPSIBLE FRUIT BOX. ROY EUGENE LOWEY, Huntington, Ind. Filed May 23, 1921. Serial No. 471,665. 1 Claim. (Cl. 229—23.)



A knock-down box formed of two foldable blanks provided with weakened folding lines, said blanks being connected together to form, respectively, the bottom and sides of the box, the blank for the sides being provided with a plurality of lips bent upwards from the bottom thereof, and the bottom blank being provided with a lip secured inside of one of the lips of the side blank, and the said side blank being provided opposite said bottom lip with a tongue made integral therewith and adapted to be pressed inwards to form a latch for the bottom of the box.

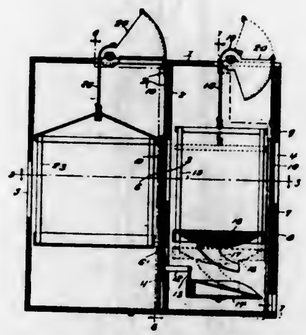
1,430,456. CHAIN-MAKING MACHINE. EDWARD J. LYTER, Lebanon, Pa. Filed May 11, 1921. Serial No. 468,531. 7 Claims. (Cl. 59—22.)

1. In a link welding machine, a link forming die adapted to receive a partially formed U-shaped link, means for bending the free ends of the link into overlapping relation, means for hammering the overlapped ends of the link, and means working from opposite sides of the said die and engaging the rounded end of the link for securely holding the same on the forming die during the bending and welding thereof, said last named means including angular swinging link clamping members, levers engageable with said members to shift the same into active position, and



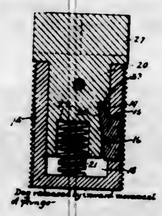
means for simultaneously actuating the said levers including means for holding the levers in active position.

1,430,457. TRAP NEST. WILLIAM N. MCLAGAN, Sycamore, Ill., assignor of forty-nine per cent to Thomas J. Ronin and Guy W. Morgan, Sycamore, Ill. Filed Apr. 15, 1922. Serial No. 552,992. 3 Claims. (Cl. 119—47.)



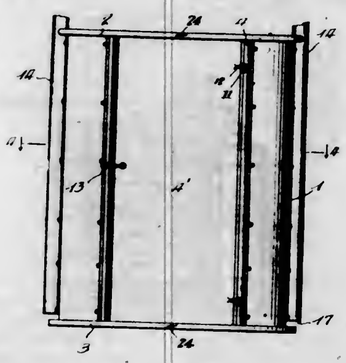
1. A trap nest of the class described comprising a housing, a partition dividing the same into two compartments, a frame in each compartment, said partition having an opening therein and the housing having an entrance opening leading into the nest compartment and an exit opening leading from the second compartment, a door for closing the entrance opening, a door for closing the opening in the partition, movable frames in said compartments, those in the first compartment being made to support a nest, means for connecting the frames with the doors, said doors being heavier than the frames so that they are normally in open position with the frames in raised position, means for normally holding the door on the partition closed and means for moving such means into inactive position when an egg is deposited in the nest by the hen.

1,430,458. GREASE-CUP PLUG. MILTON P. MCLAUGHLIN, Wakefield, Mass., assignor of one-third to Frank F. Coggin, Somerville, Mass., and one-third to R. P. Whitcher, Melrose, Mass. Filed Mar. 25, 1922. Serial No. 546,600. 5 Claims. (Cl. 184—48.)



4. A grease-cup plug externally threaded and provided with a cavity which is open at the outer end, and with a lateral guiding orifice intersecting a portion of the screw thread, a locking-dog movable in said orifice, and projecting into the cavity, a plunger movable in said cavity, a spring exerting an outward pressure on the plunger, the plunger being provided with an inclined bearing face, whereby the dog is projected to a locking position, when the plunger is moved outward by the spring, the dog being releasable from its locking position by an inward movement of the plunger, the plunger being provided with a laterally projecting pin, and the plug with a pin-receiving orifice formed to cooperate with the pin in imparting rotary movement from the plunger to the plug, the plunger being formed at its outer end to be engaged by a tool.

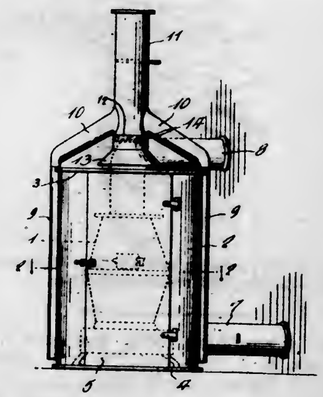
1,430,459. COLLAPSIBLE JACKET FOR FOUL-AIR REMOVERS. JOHN MCNULTY, Gulfport, Miss. Filed Aug. 31, 1921. Serial No. 497,204. 7 Claims. (Cl. 126—67.)



1. In a device of the character described, a frame comprising a base ring, vertical supporting members secured on said base ring in circumferential spaced relation, and an upper retaining ring secured on said vertical supporting members, casing sections mounted on said supporting members, and means whereby said casing sections may be opened without removing any of said sections from the frame.

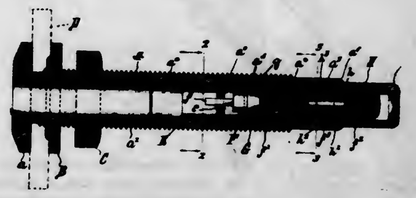
1,430,460. FOUL-AIR REMOVER. JOHN MCNULTY, Gulfport, Miss. Filed Aug. 31, 1921. Serial No. 497,205. 5 Claims. (Cl. 126—67.)

1. A device of the character described, comprising a casing adapted to surround and enclose, in spaced relation, a heating element, means for supplying fresh air to the interior of said casing beneath the heating element, and means for conveying the foul air, comprising a pipe disposed in spaced relation above said casing, conduits in connection with said pipe, said conduits being carried on the exterior sides of the casing and extending thereabove to



form supports for said foul air pipe, the top of said casing being open to permit of the heated air in the interior of the said casing circulating about said foul air pipe, whereby a circulation of foul air is set up within said conduits and pipe.

1,430,461. VALVE ATTACHMENT FOR PNEUMATIC TIRES. ANDRÉ JULES MICHELIN, Clermont-Ferrand, France. Filed Aug. 17, 1921. Serial No. 493,077. 1 Claim. (Cl. 152—12.)

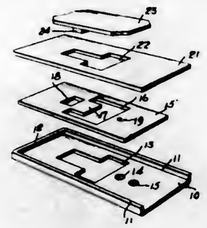


In a valve for pneumatic tires, the combination with a hollow valve casing provided with a tapered valve seat therein, and a second valve seat at the outer end thereof, of a valve stem provided with a yielding conical valve adapted to fit on said valve seat, said valve stem being being provided with an outwardly projecting end having screw threads thereon separated by an annular groove, and a metal valve provided with a thin tubular shank having internal screw threads and adapted to screw over said screw threads on the valve stem and to seat against the outer face of said casing, said shank being dented inwards into said annular groove, whereby said shank and said metal valve are prevented from accidental removal from said valve stem, but are permitted limited longitudinal and rotary movement thereon, with means for holding said valve stem against turning in said valve casing as said metal valve is screwed into engagement.

1,430,462. SEPARABLE FASTENER. EDMUND R. NEBELING, New York, N. Y. Filed Nov. 10, 1921. Serial No. 514,285. 8 Claims. (Cl. 24—211.)

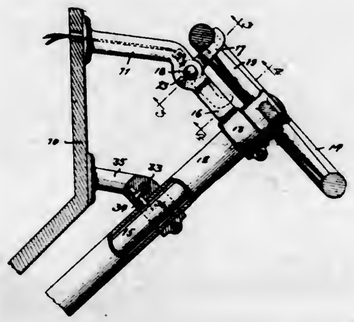
1. In a separable fastener, a base member, a sliding plate mounted in the base member, a closing plate, and an

operating member slidably mounted on the closing plate and rigidly secured to the sliding plate whereby upon



movement of the operating member the sliding plate will be moved to locking and unlocking position.

1,430,463. AUTOMOBILE LOCK. RICHARD T. NEWTON, New York, N. Y. Filed Mar. 22, 1917. Serial No. 156,682. 7 Claims. (Cl. 70—127.)



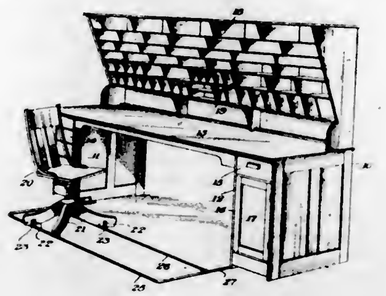
6. A steering gear lock for automobiles comprising a member clampable to the steering post, and a locking member pivoted on said clampable member and movable into and out of locking engagement with the steering wheel member, together with a key-operated lock having a bolt engaging the pivoted end of the locking member for holding said locking member in steering-wheel engaging position.

1,430,464. BUMPER ATTACHMENT MEANS. RICHARD T. NEWTON, New York, N. Y. Filed July 8, 1920. Serial No. 394,616. 13 Claims. (Cl. 293—55.)



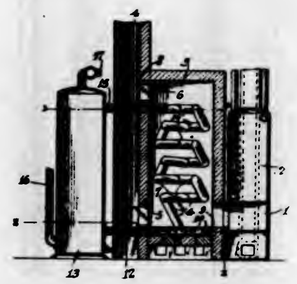
5. In bumper attaching means, a bumper supporting arm extending in adjusted position alongside a chassis side bar, a bolt for securing said arm to the latter, and an associated member engaged by the bolt and bearing against the outer face of said arm and extending transversely beneath the chassis side bar.

1,430,465. DESK. JOSEPH F. NIEMUTH, Ramsay, Mich. Filed Nov. 28, 1921. Serial No. 518,274. 3 Claims. (Cl. 45—90.)



1. An attachment for a desk comprising a pair of horizontally spaced parallel track rails having a wheeled chair thereon, a pair of sockets removably secured to the inner sides of the pedestals of said desk and provided with threaded openings, parallel arms connected the opposite ends of said rails and engaging said sockets, set screws located in the openings in said sockets and engaging said arms.

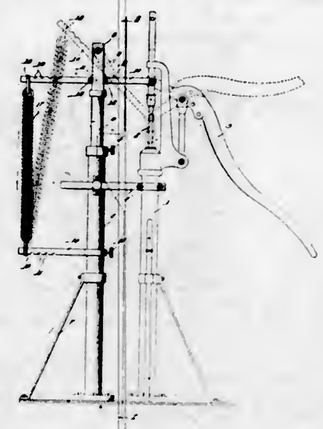
1,430,466. WATER HEATER. NILS NILSON, Salt Lake City, Utah. Filed Mar. 23, 1921. Serial No. 454,706. 4 Claims. (Cl. 122—20.)



1. In a water heater, the combination with a main boiler, of an auxiliary boiler comprising a tank, a pipe opening into said tank, and provided with convolutions, a manifold having a zig-zag passage connected to said pipe and communicating with said tank, and a chamber, of which said manifold forms the bottom, said chamber enclosing said pipe and being arranged to receive the flue gases from said main boiler.

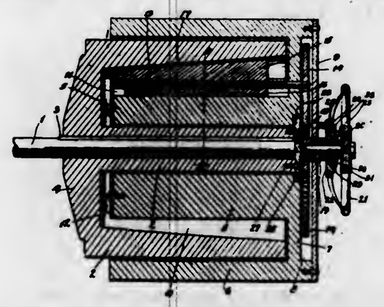
1,430,467. PUMP-ROD COUNTERBALANCE. JOHN H. PECK, Miami, Okla. Filed Jan. 14, 1922. Serial No. 529,245. 1 Claim. (Cl. 74—71.)

An attachment for a pump comprising a telescopic upright, means for adjustably connecting the parts of the upright together, links depending from the upper end of the upright, a lever pivoted intermediate its ends to the lower ends of said links, means for connecting one end



of the lever with the plunger rod of the pump, an arm on the upright, a spring and means for adjustably connecting the ends of the spring with the lever and the arm.

1,430,468. CLUTCH. JOSEPH L. PETERSON, Wellsburg, W. Va. Filed Feb. 16, 1921. Serial No. 445,342. 3 Claims. (Cl. 192—35.)

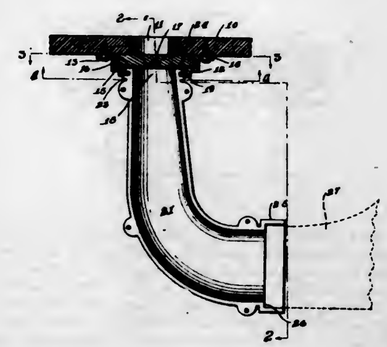


1. The combination of a driving shaft, a clutch sleeve carried by said shaft and having an open end, a pulley fitted loosely about the shaft and having a hub member fitted within the sleeve, threaded rods arranged longitudinally of said hub member, clutch shoes mounted directly upon and engaged by said threaded rods and movable thereby longitudinally of the hub to bind against or be released from the clutch sleeve, and means carried by the pulley for rotating said threaded rods.

1,430,469. TALKING MACHINE. ARTHUR W. RIVETT, St. Louis, Mo. Filed Apr. 18, 1921. Serial No. 462,259. 2 Claims. (Cl. 274—2.)

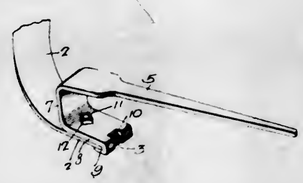
1. In a talking machine having its sounding board formed with a hole, a boxing secured upon the underside of the sounding board at said hole and including longitudinally extending guides adapted to slidably support an adjusting block movable to cover and uncover said opening, said boxing being formed below said hole with a circular opening surrounded by an inwardly extending flange having slots at opposite sides, and a depending

curvede throat member having its upper end formed with a flange engageable against the underside of said first named flange and being formed at its upper end with a



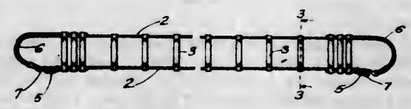
pair of oppositely disposed lugs insertible through said recesses whereby to lock the throat in association with the boxing when the throat is subsequently partially rotated.

1,430,470. SICKLE. GEORGE L. ROGERS, Philadelphia, Pa., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 23, 1921. Serial No. 479,835. 2 Claims. (Cl. 30—9.)



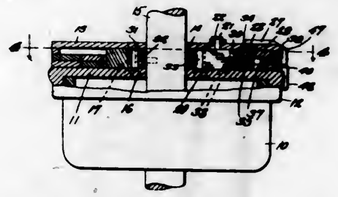
1. The combination in a sickle, of a blade; a U-shaped tang section; means for attaching one arm of the section to the blade; and a tang formed as an extension of the other arm.

1,430,471. PULL BELT FOR STALLED AUTOMOBILES. JOHN SIMON, Gardena, Calif. Filed Mar. 24, 1921. Serial No. 455,297. 1 Claim. (Cl. 180—7.)



A pull belt for stalled automobiles comprising parallel cables, both ends of both of said cables being doubled, a series of transversely disposed metal plates having their ends secured to the doubled ends of both cables, a series of transversely disposed metal plates secured to the cables between their doubled ends, rings carried by the doubled ends of one of said cables and hooks carried by the doubled ends of the other cable.

1,430,472. LOCK FOR AUTOMOBILES. FRED STAGGS and MARION REYNOLDS, Shamrock, Tex. Filed Jan. 23, 1920. Serial No. 353,630. 5 Claims. (Cl. 70—53.)



1. In a permutation lock, a member adapted to be attached to a steering shaft of an automobile and having notches therein, a member stationary with relation to the first-mentioned member, a bolt slidable with relation to the members and held against rotary movement by the second-mentioned member and adapted to enter the recesses in the first-mentioned member, permutation rings rotatable about the second-mentioned member and having recesses adapted to aline to provide a clearance for the bolt, rings embracing the first-mentioned rings, means for communicating motion of the second-mentioned rings to the first-mentioned rings, manipulated devices on the second-mentioned rings whereby they are moved, and indicators for denoting the degree of movement of the said rings.

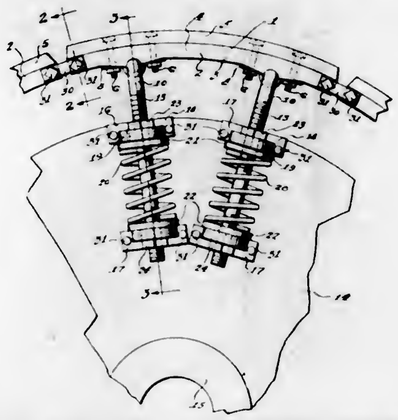
1,430,473. ELECTROMAGNETIC WELL-DRILLING MACHINE. FOREST R. STOLL, Carey, Ohio. Filed July 25, 1921. Serial No. 487,511. 5 Claims. (Cl. 255—4.)



1. The combination in a drilling machine, of a casing, a solenoid in the upper portion thereof, means to supply electric current to the solenoid, a hoisting bail on the casing, shoes hingedly connected to said bail, an armature rod complementary to the solenoid and means operable by said rod to expand and contract said shoes.

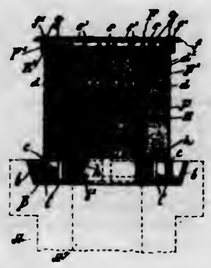
1,430,474. RESILIENT WHEEL. JOHN L. STOLTS, Sumner, Ill. Filed Oct. 15, 1921. Serial No. 507,878. 4 Claims. (Cl. 152—36.)

4. In a resilient wheel, a tire structure composed of a plurality of sections, connecting plates pivotally connecting the ends of said sections together, a hub structure including a disc, a pair of U shaped bolts connected to each of said tire sections and having legs positioned upon the opposite sides of said disc, springs about said legs, and



means establishing connection between said legs and said disc to permit yieldable shock absorbing connection of the tire and hub structures.

1,430,475. SPARK ARRESTER. WILLIAM LAFAYETT TARVIN, Rome, Ga. Filed Dec. 31, 1921. Serial No. 526,433. 2 Claims. (Cl. 183—8.)

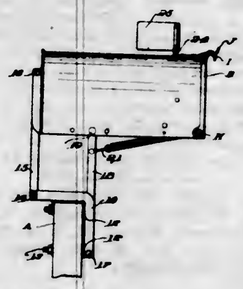


1. A spark arrester adapted for use with fixed chimneys or smokestacks, comprising a pan provided with a central opening adapted to register with the flue, with an annular flange surrounding said opening, said flange and said outer walls forming a trough to receive the larger solid particles passing up the flue, and also to receive water from rain or snow, an inner cylindrical screen open at both ends and having its lower end slipped over and engaging said annular flange, legs projecting upwardly from the bottom of said pan and arranged concentric with but spaced away from said annular flange, an outer cylindrical screen having its lower end secured to said legs, and a cap closing the upper end of said outer screen, substantially as described.

1,430,476. MAIL-BOX BRACKET AND SIGNAL. HARRY E. TASKELL, Wellington, Kans. Filed Aug. 22, 1921. Serial No. 494,222. 6 Claims. (Cl. 232—40.)

1. In combination with a mail box and a supporting post, a bracket for supporting the box comprising a rigid

bracket member secured upon the post, a plurality of bars pivotally connected with said rigid bracket and

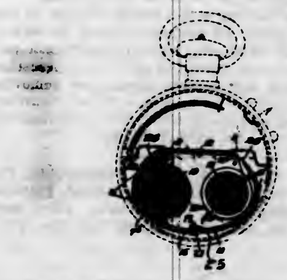


pivotally connected with a mail box, and springs connected with certain of said arms and with the box whereby to hold the parts in either selected position.

1,430,477. TANNING PREPARATION. JOHN K. TULLIS, New York, N. Y., assignor to Fulcra Tan Company, Irvington, N. J., a Corporation of Delaware. Filed Mar. 25, 1920. Serial No. 368,728. 3 Claims. (Cl. 149—4.)

2. As a new tanning material a solution of commercial quebracho extract in acidulated light liquor from sulfite digestors used in making paper pulp, the acidulation being with a sulfonic acid.

1,430,478. PHOTOGRAPHIC CAMERA. THOMAS WALLACE, New York, N. Y. Original application filed July 5, 1918, Serial No. 243,272. Divided and this application filed Oct. 9, 1920. Serial No. 415,821. 5 Claims. (Cl. 95—34.)



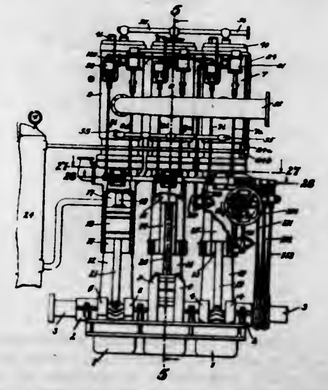
1. A film holder, comprising top and bottom members and a front connecting plate forming a support for a portion of the film when in exposure position and a detachable member forming a wall for said film holder extending from a point adjacent one side of said plate to a point adjacent the other side thereof.

1,430,479. TANNING PROCESS. FRANK WAYLAND, Salem, Mass. Filed Nov. 22, 1920. Serial No. 425,627. 10 Claims. (Cl. 149—4.)

1. That process of preparing leather which comprises as steps, separating the grain from the nerve layer of a raw hide, and maintaining such grain in taut condition while subjecting it to the action of a tanning reagent for converting it into leather.

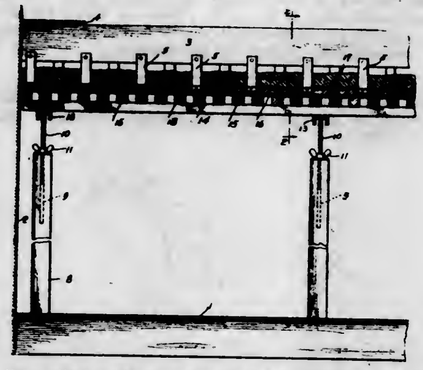
1,430,480. INTERNAL-COMBUSTION ENGINE. WILLIAM B. SMITH WHALEY, New York, N. Y., assignor to American Whaley Engine Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 9, 1917, Serial No. 141,401. Renewed Apr. 11, 1922. Serial No. 551,473. 43 Claims. (Cl. 123—26.)

1. In an engine of the character described, the combination of a two-cycle valveless type of cylinder provided with a pre-compression chamber; and means connecting the latter with the combustion chamber of said cylinder; a piston; a pitman; a crank-shaft; a mixing valve communicating with the inlet port of said pre-compression chamber adapted to proportion the fuel mixture entering



said pre-compression chamber; a steam engine valve gear; a compressed air-admitting valve operated by said valve gear; an igniter operated by said valve gear; a compressed air supply coupled with said air-admitting-valve; and means for operating and controlling said valve gear.

1,430,481. CEILING. MARQUIS WIRPCKE, Brooklyn, N. Y. Filed May 23, 1921. Serial No. 471,712. 1 Claim. (Cl. 72—71.)

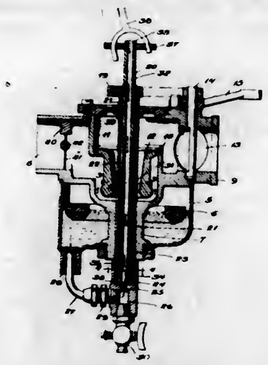


In a ceiling of the class described, a plurality of hangers each consisting of a strip of metal, means connecting said hangers to a support, a reticulate suspended from said hangers, said reticulate consisting of a plurality of wires each extending parallel to the other and through a series of said hangers, and a plurality of wires extending across and secured to said first mentioned wires, a plastic body embedding said reticulate, and an ornamental finish on the under surface of said plastic body.

1,430,482. CARBURETOR. DAVID L. WINTERS, Edgewater, Md. Filed Oct. 15, 1919. Serial No. 330,797. 4 Claims. (Cl. 261—121.)

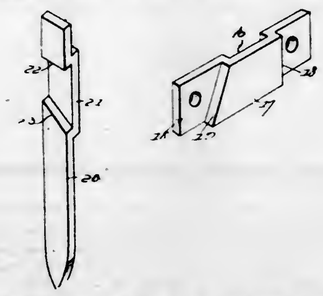
1. In a carburetor, in combination, a fuel inlet and control valve therefor, a throttle valve, means to simultaneously actuate said valves to maintain the relative proportions of fuel and air, and means comprising constantly open ports of fixed area greater than said fuel inlet to maintain a relatively fixed fuel flow head by means of a fixed gravity head, whereby to supply a richer or

leaner mixture in proportion to variations in the air flow head as effected by variations in the load on the engine.



4. In a carburetor, in combination, a fuel inlet and a control valve therefor, a throttle valve, means to simultaneously actuate said valves to maintain the relative proportions of fuel and air, a fuel reservoir, means to maintain fuel in said reservoir above the level of said fuel valve, an air passage, a tube extending from said fuel control valve to said passage, constantly open ports from said tube into said passage, an air tube extending within and concentric with said first named tube, constantly open ports in said air tube adjacent said fuel control valve, said last named ports being of greater area than said first named ports and said first named ports being of greater area than said fuel inlet whereby a fixed gravity head for flow of fuel through said control valve will be maintained, whereby to supply a richer or leaner mixture in proportion to variations in the air flow head as effected by variations in the load on the engine.

1,430,483. HARROW. DON S. WOLVERTON, Doland, S. Dak. Filed Oct. 19, 1920. Serial No. 418,046. 3 Claims. (Cl. 55—153.)



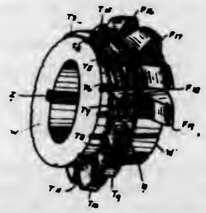
1. A harrow having a tooth bar provided with a tooth socket having respectively vertical and obliquely disposed end walls, and a tooth having an offset shank fitted in said socket and provided with upper and lower shoulders for engagement respectively with the corresponding edges of the bar.

1,430,484. COATING COMPOSITION AND PROCESS. LYNDON D. WOOD, Bala, Pa. Filed July 1, 1922. Serial No. 572,324. 2 Claims. (Cl. 134—1.)

1. A sensitive compound for use in the reproduction of sound waves which have been photographically recorded comprising 20 parts of platinum-barium-cyanide of potassium crystals, 10 parts of tungstate of soda, 70 parts of selenium crystals, 34 parts of salt, 33 parts of sulphur, 33 parts of phosphorus.

2. The process of producing a sensitive compound for use in the reproduction of sound waves which have been photographically recorded, consisting in reducing to a molten mass a mixture of platinum-barium-cyanide of potassium crystals, tungstate of soda and selenium crystals and to this molten mass adding a mixture of salt, sulphur and phosphorus and keeping the whole in a molten condition for a continued period of approximately 30 minutes or until a flame color indicating the flame of both barium and potassium rises from the mass and then crystallising the mass by suddenly immersing it into a receptacle of water at a temperature of approximately 40° Fahrenheit.

1,430,485. HOB AND METHOD OF MAKING IT. WILLIAM F. ZIMMERMANN, Newark, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Jan. 28, 1921. Serial No. 440,782. 15 Claims. (Cl. 29—103.)



3. A worm-cutting hob having a full-sized finishing-tooth and a plurality of under-sized roughing-teeth; said hob having an end-shoulder located a definite distance from the plane transverse to the axis of the hob and passing centrally through the peripheral portion of the cutting-edge of said finishing-tooth; whereby the operative position of said hob may be positively, accurately and invariably fixed with relation to the blank to be tooled.

4. The method of making a hob which consists in cutting a peripheral groove of uniform contour to form a non-tapering thread; then progressively removing a portion of a side face of said thread to give it a taper; then at intervals notching said tapered thread and removing portions of its periphery so as to form a series of cutting-edges, the peripheral portions of which lie at progressively different distances from the axis of the hob.

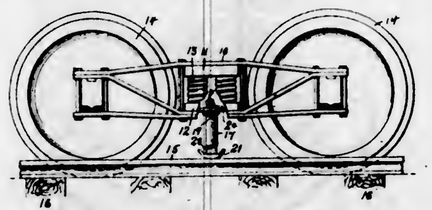
1,430,486. FAN. ELWOOD B. AYRES, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 26, 1921. Serial No. 503,165. 2 Claims. (Cl. 170—173.)



1. The combination in a fan, of a hub; a series of blades, the hub having two series of radiating surfaces,

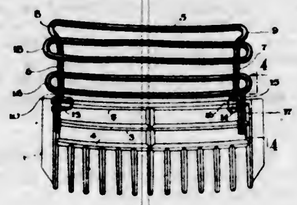
one series alternating with the other, and one arranged at an angle to the other; and means for securing the blades to either of said sets of surfaces.

1,430,487. CAR BRAKE. FRED P. BEVERLY and COMER CALDWELL, Kaufman, Tex. Filed Nov. 17, 1920. Serial No. 424,710. 2 Claims. (Cl. 246—171.)



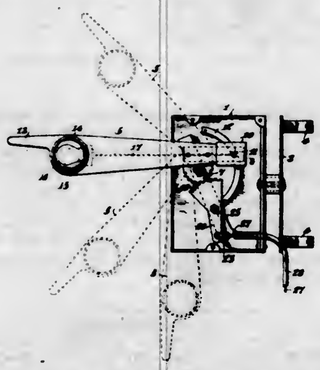
1. An attachment for car trucks comprising a valve associated with the air brake mechanism, relatively weak yieldable means for holding the valve closed, and relatively strong yieldable means operating to supplement the holding means of the valve, said stronger holding means adapted to be actuated by the displacement of said truck.

1,430,488. GUARD FOR GRATES. WILLIAM SANFORD BOARD, Plymouth, W. Va. Filed Feb. 1, 1922. Serial No. 533,406. 6 Claims. (Cl. 126—202.)



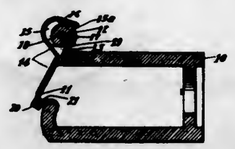
5. A guard for grates comprising a substantially U-shaped frame having a horizontal web portion and depending arms, one of said arms being offset adjacent to its extremity to provide a journal, and a clevis having portions adapted to embrace a bar of the grate and being apertured to receive the journal portion of the said arm of the frame.

1,430,489. SIGNAL MACHINE. GEORGE B. BREWER, San Pedro, Calif. Filed Mar. 23, 1921. Serial No. 454,940. 2 Claims. (Cl. 116—54.)



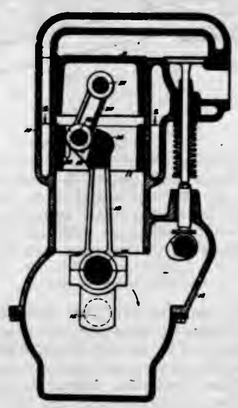
1. A casing adapted to be attached to a motor vehicle, a signal indicating arm pivotally mounted within the casing, with one end extending beyond the casing, a balancing weight carried by the inner end of said arm, a toothed segment carried by said arm, a toothed quadrant pivotally mounted in said casing and meshing with said segment, an operating element connected to the lower end of said toothed quadrant, and an actuating lever for operating said element whereby the indicating arm may be moved to various signalling positions.

1,430,490. OIL BOX. WILLIAM HENRY BURNS, Carbondale, Ill. Filed May 17, 1920. Serial No. 381,961. 1 Claim. (Cl. 64—23.)



The combination with a journal box and a lid hingedly secured thereto, of an apertured lug carried by the box and receiving a hinged pin to connect the lid to the box, an extension formed on the lid and receiving the apertured lug, a lip provided along the edge of the extension, a shoulder formed on the lug for engagement by the extension to hold the lid in open position, a lug extending from the edge of the box beneath the entrance opening and a lip extending from the lower edge of the lid for engagement beneath the last mentioned lug to hold the lid in closed position.

1,430,491. MEANS TO PREVENT DEAD CENTERS IN ENGINES. JOSEPH CALCATERRA, New York, and OTTO J. BERNARDONI, Corona, N. Y. Filed Mar. 8, 1922. Serial No. 542,128. 2 Claims. (Cl. 74—20.)

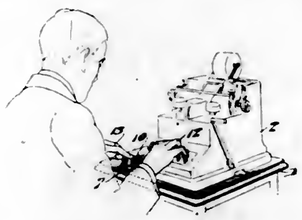


1. In an engine, a piston, a connecting rod of bellcrank form adapted at one end for connection with a crank shaft, a connection between the piston and the bellcrank arm of the connecting rod, a sleeve in tandem with the piston and forming part of the same cylindric surface with the piston, and a pivotal connection between the sleeve and the connecting rod at the junction of the main and bellcrank arms of said connecting rod.

1,430,492. MOISTENING DEVICE. ROBERT DYAS CAYCE, Nashville, Tenn. Filed Apr. 11, 1921. Serial No. 460,294. 1 Claim. (Cl. 91—51.)

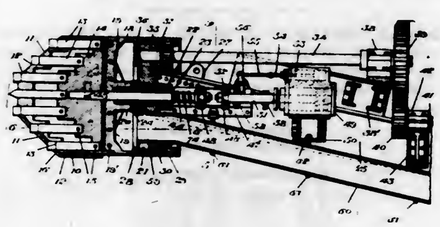
In a device of the character described, the combination with a table for the machine and provided with a properly disposed opening, having a surrounding channel with

a kerf at each end, of a trough having a surrounding rim fitting the channel around the opening of the table and flush with the surface of said table, and having at each end an offset forming a recess to fit in the kerfs of



the channel around the opening of the table, and a moistening roller arranged in said trough with its journals bearing in the recesses of the rim of the trough and its surface projecting slightly above the table.

1,430,493. ROCK-CUTTING MACHINE. JOHN W. COOK, Miami, Fla. Filed Dec. 13, 1920. Serial No. 430,329. 11 Claims. (Cl. 262—5.)



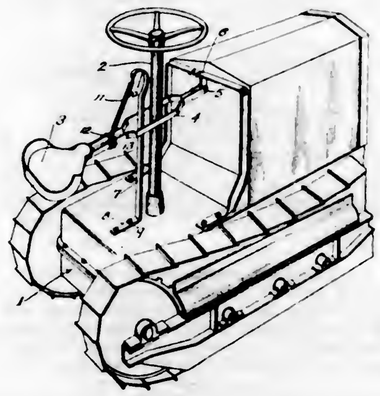
1. A cutting machine comprising a hollow cutter head, bits working within and porjecting from said cutter head, a holder for the bits mounted for reciprocation within the cutter head, said cutter head being closed to exclude foreign mater, means for mounting said head for rotation, and means for reciprocating said holder.

1,430,494. OPTICAL PROJECTION APPARATUS APPLICABLE PARTICULARLY TO OPTICAL PROJECTION LANTERNS, CINEMATOGRAPH PROJECTORS, AND THE LIKE. PERCY EDWARD CORRELL, Sydney, New South Wales, Australia. Filed Jan. 6, 1922. Serial No. 527,484. 7 Claims. (Cl. 88—24.)



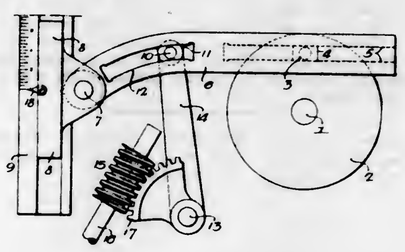
1. In an apparatus of the character described, a paraboloid reflector, a light located about the focus of the reflector, a converging lens in front of the reflector, said lens having one face granulated or stippled to produce slight diffusion.

1,430,495. DUAL SPRING SUSPENSION. SAMUEL J. COUGHRAN, Buena Park, Calif. Filed Aug. 25, 1920. Serial No. 405,945. 1 Claim. (Cl. 155—51.)



The combination with a horizontally disposed pivotally mounted seat supporting bar formed in two parts, of a resilient upright member positioned between the parts of said seat supporting bar, the lower end of which resilient upright member is fixed on a suitable support, a retractile spring arranged between the upper end of said resilient member and said seat supporting bar.

1,430,496. MECHANICAL MOVEMENT. ADOLPH L. DE LEEUW, Plainfield, N. J. Filed Sept. 25, 1920. Serial No. 412,786. 5 Claims. (Cl. 74—14.)



1. The combination of a yoke having a curved slot; a power shaft; a crank pin on the power shaft engaging the yoke; a slide pivoted to the yoke; a guide for the slide; a fulcrum pin; a block on said pin adjustable in the slot of the yoke; a swinging arm of a length substantially equal to that of the radius of curvature of the slot and operative on the block; with means for swinging said arm to adjust the position of the block, and with it the fulcrum pin, towards or from the power shaft to vary the stroke of the slide.

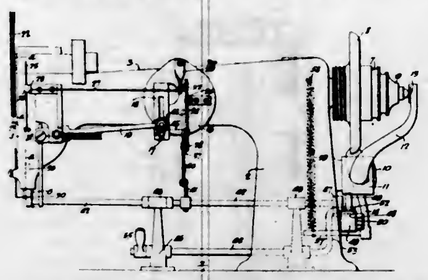
1,430,497. TOOL. WALDEMAR ENGBERG, Anchorage, Territory of Alaska. Filed July 16, 1921. Serial No. 485,217. 3 Claims. (Cl. 254—25.)

1. A tool of the character described comprising a handle, one extremity of the handle being offset and bifurcated, teeth formed on the wall of one of the separated portions defined by said bifurcation, and the con-



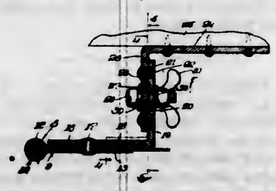
fronting wall of the other separated portion defined by said bifurcation being inclined for the purpose specified.

1,430,498. STOP MOTION FOR SEWING MACHINES. CHARLES J. FRANKLIN, Camden, N. J., assignor to Camden Curtain & Embroidery Company, Camden, N. J., a Corporation of New Jersey. Filed Dec. 29, 1920. Serial No. 433,809. 3 Claims. (Cl. 112—219.)



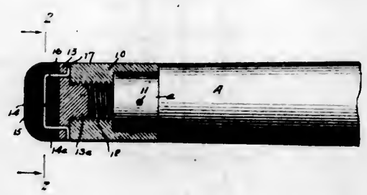
1. The combination in a stop motion for a sewing machine of a clutch; a hub having a clutch arm and a brake arm; needle mechanism; tension mechanism; a rock shaft; an arm thereon having an eye through which the thread passes to the needle from the tension mechanism; a shaft for actuating the needle mechanism; a finger on the last named shaft; an arm and means connecting the arm with the rock shaft so that when the thread breaks the arm will be in position to be actuated by said finger, and means for applying the brake and releasing the clutch actuated by the longitudinal movement of the said arm.

1,430,499. VISOR FOR AUTOMOBILES. JOHN B. GATS, Chicago, Ill., assignor to Aaron M. Searles, Chicago, Ill. Filed Feb. 17, 1921. Serial No. 445,700. 3 Claims. (Cl. 296—95.)



1. A visor for an automobile comprising a rectangular frame made of wire; a fabric stretched between the frame members and extending around them; two corner clamps at each corner of the frame, each clamp having angularly related curved parts, each part curved less than one-half circle, and a flat part, said clamps overlying the wire and fabric at each corner and connected together through the flat parts and means attached to the flat parts at two corners to hinge the device to an automobile.

1,430,500. CUE-TIP FASTENER. HENRY JOSEPH GRENIER, Fairfield, Conn. Filed Aug. 9, 1921. Serial No. 490,929. 4 Claims. (Cl. 46—9.)



1. An attachment for cues comprising a ferrule having means to secure it to a cue end, an element detachably secured to the front end of said ferrule, a tip on said element, and a fastener embedded in said tip, said fastener for a portion thereof lying transversely in the tip and having parts at the ends of the first portion extending rearwardly to the rear of the tip and through said element, the terminals of said fastener extending laterally outward at the rear side of said element and being clamped by said element and against the ferrule.

1,430,501. CAR BRAKE. WILLIAM H. GROW, Grafton, W. Va. Filed Oct. 6, 1921. Serial No. 505,852. 3 Claims. (Cl. 188—229.)

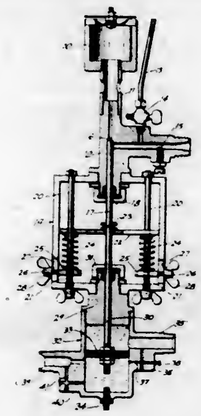


2. In a brake, a compression member comprising a channel iron, heads having sockets of the configuration of the channel iron to which they are applied and shoe engaging surfaces of like contour above and below the sockets on each side of the said sockets, apertured ears at each end of the head, a reversible strut having a slot therein, means for securing either end of the strut to the compression member, a tension rod engaging the end of the strut remote from the compression member, said tension rod extending through the heads when the heads are on the compression member, and means on the tension rod for holding the parts in assembled relation to each other.

1,430,502. AUTOMATIC GAS VALVE. WILLIAM HANSON, Los Angeles, Calif. Filed Feb. 21, 1921. Serial No. 446,888. 3 Claims. (Cl. 236—25.)

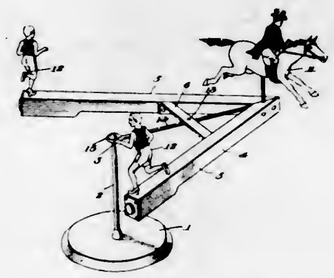
1. In combination, a gas burner, a valve for controlling the flow of fuel to the burner, a cylinder provided with inlet and discharge ports, a piston within the cylinder, a member operatively connecting the piston and valve, a

cross member secured to the first member, rotatable members slidably receiving the second member, and means for



urging the second member in one direction so as to normally close the valve and position said piston between said ports.

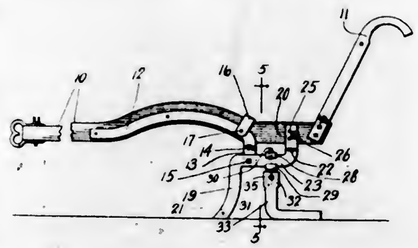
1,430,503. TOY. HARVEY R. HAYWARD, Akron, Ohio. Filed May 7, 1921. Serial No. 467,633. 2 Claims. (Cl. 46—40.)



1. A toy as herein described, including a substantially V-shaped frame having figures at the apex and on the ends thereof and having a rod centrally arranged therein, terminating in a widened portion having a cup-shaped depression, brace means between the arms of the frame and the said rod, a fulcrum member having a pointed end received in the cup-shaped depression of the rod, and weighted means in the outer ends of the arms of the frame adjustable exteriorly thereof.

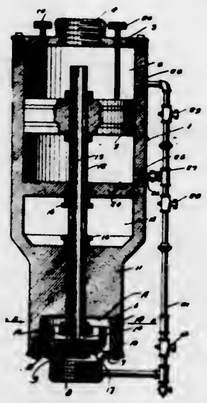
1,430,504. PLOWSTOCK. WILLIAM S. HIETT, Temple, Ga., assignor of one-fourth to Carrie Hutcheson, one-fourth to Willard D. Hutcheson, and one-fourth to Joseph F. Hutcheson, all of Temple, Ga. Filed May 20, 1921. Serial No. 471,054. 3 Claims. (Cl. 97—26.)

2. In combination, a plow beam, reinforcing elements secured to the opposite sides of the plow beam and having the corresponding extremities offset inwardly and depending from said beam, a plow carrier comprising spaced members having their upper ends adjustably secured to the opposite sides of the plow beam, said members being arranged at the opposite sides of said extremities of the reinforcing elements and secured thereto, a two-part clamp embracing the upper end and lower edges of the said members at a point rearwardly of the reinforcing elements, an adjustable connection between the respective



parts of the clamp, and a depth gauge adjustably mounted upon the lowermost part of said clamp for the purpose specified.

1,430,505. GOVERNOR VALVE FOR STEAM ENGINES. ALVA K. HINCHMAN, Philadelphia, Pa., assignor of one-half to Charles H. Quimby, Philadelphia, Pa. Filed Sept. 18, 1920. Serial No. 411,127. 3 Claims. (Cl. 50—34.)

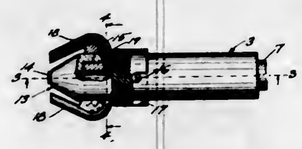


1. A governor valve comprising a casing having a low pressure chamber provided with an outlet port and a chamber having an inlet port, a valve seat formed in the inlet port, a piston in said low pressure chamber, a hollow piston stem secured to the piston and extending into the second chamber, and a valve in said second chamber and secured to the stem and adapted to engage the valve seat when in one position and having a passage in communication with the hollow stem to permit fluid to pass into the lowpressure chamber from the inlet port when said valve is disengaged from the seat.

1,430,506. NOZZLE FOR AIR BRUSHES. BIRCHARD E. HOLTON, Los Angeles, Calif. Filed Apr. 29, 1920. Serial No. 377,660. 1 Claim. (Cl. 91—45.)

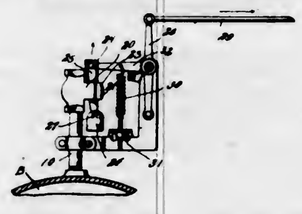
A nozzle of the character described comprising a casing, a threaded and shouldered extension formed on the casing, said casing and extension being formed with a conduit and diametrically disposed ports formed in the extension and communicating with the conduit, a cap threadedly mounted on the extension and abutting said shoulder, the

inner end of said cap being formed with a recess, a discharge nipple within the cap and in axial alinement with said conduit, divergently arranged nipples sustained on



the cap and adapted to communicate with said ports when the cap is in a predetermined position, and a pin mounted in the casing and engaging within said recess for defining the rotational movement of the cap in either direction.

1,430,507. BLEEDING VALVE. LOUIS A. HORNBURG, Omaha, Nebr. Filed Aug. 30, 1921. Serial No. 496,992. 5 Claims. (Cl. 303—80.)

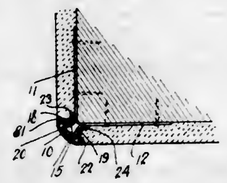


1. A bleed valve comprising in combination with the auxiliary reservoir of an air brake system, a casing having one end connected with the bleed port of the reservoir and having its other end communicating with the atmosphere, said casing being formed with a lateral nipple, a partition within the casing provided with a hole surrounded by a valve seat, the hole establishing communication between the bleed port and the atmosphere, a valve slidable through the lateral nipple and normally closing said seat, a weight controlled wedge member engaging against said valve for holding the same closed, and means for moving said member.

4. A bleed valve comprising the combination with the auxiliary reservoir of a railway air brake system, of a casing communicating at one end with the bleed port of the reservoir and communicating at its opposite end with the atmosphere, said casing being provided in one side with a laterally extending nipple and being provided internally with a partition having a hole provided with a valve seat surrounding the same, a valve slidable through said lateral nipple and normally closing said seat, a vertically movable wedge shaped member engaging the outer end of said valve whereby to normally hold the same closed, and manual means located at the sides of a car and connected with said wedge member whereby to elevate the same for permitting pressure against said valve to open the latter, said means comprising a bar, push or pull rods connected with the ends thereof and an arm on said bar having a lost motion connection with said wedge member.

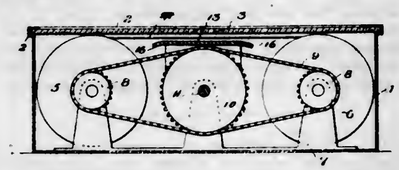
1,430,508. CORNER BEAD. JOHN JOHNSON, New York, N. Y. Filed Oct. 25, 1920. Serial No. 419,414. 1 Claim. (Cl. 72—121.)

In a device of the class described, an element including a plurality of legs, a head, and outwardly turned resilient devices upset from the lower portion of the head, and a bead including a central portion, inwardly turned flanges and deflected edge portions, the flanges of the bead being directly engaged on their inner sides by the under portion of the head and by the devices upset from



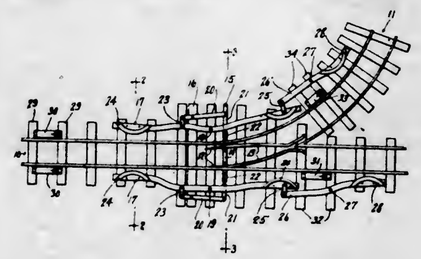
the head, and the bead being locked to the head by the engaging devices.

1,430,509. DISPLAYING DEVICE. MERTON JONES, Chicago, Ill. Filed July 13, 1920. Serial No. 395,845. 1 Claim. (Cl. 40—95.)



In combination a casing having a transparent top, rollers for supporting a strip for travelling directly under said top, a platform, thumb screws connected to the platform and mounted in inclined slots in the casing whereby the platform may be slid into engagement with the under surface of the strip and clamped in such position.

1,430,510. AUTOMATIC SWITCH. JOHN KENNER, Herrin, Ill. Filed Dec. 30, 1921. Serial No. 525,885. 2 Claims. (Cl. 246—323.)

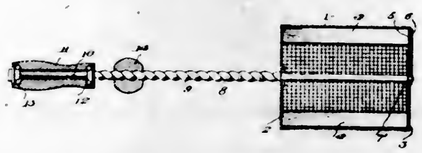


1. In a railway switch operating mechanism, the combination with a main track and a siding, of levers arranged at the opposed sides of the track, and fulcrumed at points in their length, contact members carried by each lever adjacent its ends, equalizing members operatively connected with the aforementioned levers and with the switch elements, car carried means operable to selectively actuate either of the first mentioned levers, whereby the switch can be opened and closed at predetermined intervals to either the main track or said siding, the means arranged along the tracks for automatically returning the car carried means to normal position.

1,430,511. CORN POPPER. WILLIAM DARVIN LABADIE, Chicago, Ill., assignor to Walter Banduraki, Chicago, Ill. Filed June 20, 1921. Serial No. 479,075. 1 Claim. (Cl. 259—75.)

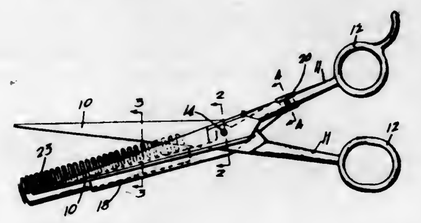
A corn popper of the character described comprising a reticulated cylindrical cage, a metallic disk designed to

close one end of the cage and being provided with an opening adjacent its edge thereof and there being a rounded aperture arranged in its center, a second disk designed to close the opposite end of the cage and being provided with a square aperture arranged in its center, a plurality of spaced plates arranged between said disks and in contacting engagement with the inner face of



said cylindrical cage, a shank adapted to support the cage and being reduced square in cross section to engage the square aperture of the disk, said shank extending through the cage and being reduced round in cross section to accommodate itself to the round aperture of the second mentioned disk, a door pivotally secured to the rounded reduction and adapted to slide laterally over said opening and means for rotating said shank.

1,430,512. HAIR CUTTER. ARCHIE LANGLAIS, Los Angeles, Calif. Filed July 7, 1921. Serial No. 482,887. 3 Claims. (Cl. 30—13.)



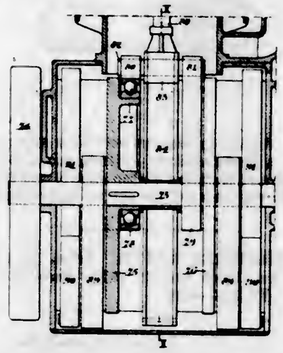
1. The combination with a pair of hair cutting shears, of an arm connected to the pivot pin between the shear blades, a connection between said arm and the handle of one of the shear blades, and a channel-shaped holder projecting from the forward end of said arm alongside of the blade to which said arm is connected.

1,430,513. HORSE COLLAR. REINHOLD S. LENE, Lexington, Nebr., assignor of one-half to Harpham Brothers Company, Lincoln, Nebr., a Corporation of Nebraska. Filed Oct. 11, 1920, Serial No. 416,130. Renewed Aug. 2, 1922. Serial No. 579,237. 3 Claims. (Cl. 54—19.)



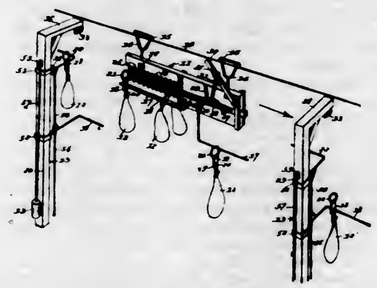
1. The combination with a collar split at the top, connector-securing hooks in pairs transversely of the collar in the collar-ends formed by the split, an outside connector having a series of holes to receive said hooks and fasten the collar-ends to the connector at different distances apart of the ends, an adjustable pad opposite the split and on the inside of the collar, and loops secured to the pad and loosely receiving the collar-ends between the respective loops and pad.

1,430,514. EQUILIBRATED DEVICE FOR TRANSFORMING INTO CIRCULAR MOTION THE LINEAR MOTION OF THE PISTON OF A MOTOR. JULES LEROY, Paris, France. Original application filed July 10, 1920, Serial No. 395,338. Divided and this application filed Jan. 9, 1922. Serial No. 528,117. 4 Claims. (Cl. 74—14.)



1. In a motor, the combination with the piston and piston rod connected thereto, of equilibrated means for transforming the linear motion of the piston into rotary motion, comprising two parallel plates disposed upon opposite sides of the path of the piston rod and mounted for rotation, each of said plates carrying on its opposite faces oppositely arranged eccentrics, means connecting the eccentrics on the inner faces of the plates with the piston rod, said means cooperating with said eccentrics to transform the linear motion of the piston rod into rotary motion about said plates, and a counterpoise connected to and movable with the eccentric on the outer faces of said plates.

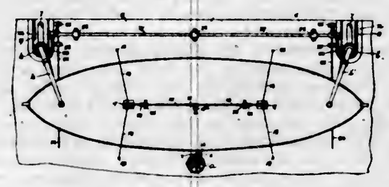
1,430,515. MAIL CARRIER. FURMAN E. POSTON and JOHN S. HUMPHRIES, Lake City, S. C. Filed Nov. 8, 1920. Serial No. 422,648. 6 Claims. (Cl. 214—39.)



1. A mail carrier having a car provided with a longitudinally disposed delivery arm, mail carrying shackles removably suspended from said arm and provided respectively with means for engagement by a stationary shackle removing arm, retaining means for normally maintaining the shackles out of the path of said removing arm, and means for successively releasing the shackles from said retaining means.

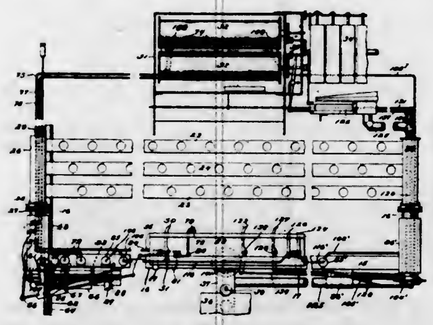
1,430,516. SHIP'S DAVIT. PIETER VANDERWAL, Brondesbury, London, England. Filed Mar. 11, 1922. Serial No. 543,011. 10 Claims. (Cl. 9—22.)

1. In ships' davits capable of movement to and from an angular outboard position, means for coupling the davits together, means for operating said coupling whereby the davits are simultaneously reciprocated to and



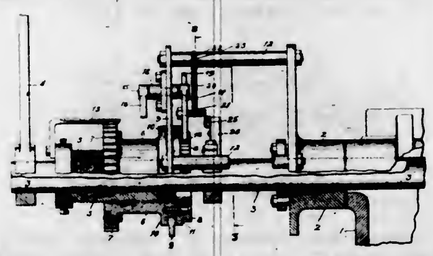
from an angular outboard position, means for positively rotating both the said davits during their said angular movements except for portions of said movement.

1,430,517. PLAYER MECHANISM FOR MUSICAL INSTRUMENTS. WILLIAM A. WATSON, Malden, and WARNER EUSTIS, Newton, Mass., assignors to J. P. Eustis Manufacturing Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Aug. 19, 1919. Serial No. 318,521. 97 Claims. (Cl. 74—24.)



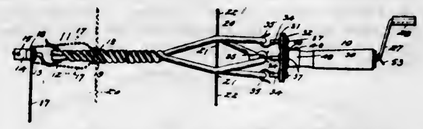
1. In a player mechanism for musical instruments, separate, manually-operated, control means for varying the style of playing, and the control-manuals thereof, all grouped together upon the instrument as a removable unit, and a wind-chest section included in said unit.

1,430,518. FILTER. ROBERT C. CAMPBELL, Millburn, N. J., assignor to United Filters Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 27, 1920. Serial No. 354,500. 17 Claims. (Cl. 210—193.)



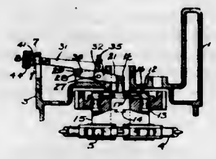
1. Sluicing mechanism for filters comprising a longitudinally movable sluicing pipe, and means for intermittently moving said pipe.

1,430,519. ROPE MACHINE. JOE M. CATTOOR, Eaton, Colo. Filed May 23, 1921. Serial No. 471,637. 9 Claims. (Cl. 117—9.)



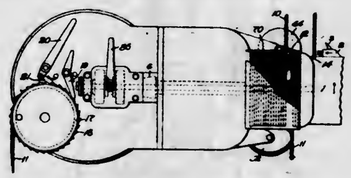
1. A rope machine having an anchoring member and a twisted member, the latter having a twister head, a plurality of twister hooks for respective engagement with the strands to be twisted, an operating spindle, gear connections between the spindle and said twister hooks, a handle journaled on said spindle, and means to connect the handle for unitary movement with the head and spindle.

1,430,520. CLUTCH-CONTROLLING MECHANISM. MORRIS P. HOLMES, Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed May 29, 1916. Serial No. 100,715. 17 Claims. (Cl. 74—39.)



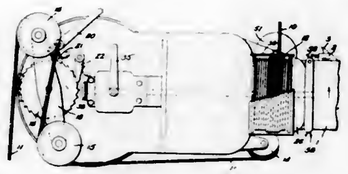
7. In a clutch controlling mechanism, clutch mechanism including a movable clutch member, a pivoted operating lever, a cooperating clutch controlling lever having one end extending beyond tre pivot of said operating lever and its opposite end extending to a point intermediate the ends of the latter, and operative connections between said levers including means for varying the position of the cooperating lever without substantially varying the throw of the free end of the operating lever.

1,430,521. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 27, 1908, Serial No. 464,723. Renewed Feb. 25, 1920. Serial No. 361,110. 87 Claims. (Cl. 262—30.)



1. In a mining machine, the combination with cutting means, of flexible guiding means comprising two flexible guiding members connected each to a fixed support, one on the advancing side of the machine and the other on the receding side thereof, said guiding members being connected to the machine, one near the wall or cutting end and the other nearer the opposite side thereof, and means for controlling said guiding members including a winding drum for the guiding member leading to the receding side and located near the forward or cutting end of the machine adjacent the point of connection of the first guiding member to the machine.

1,430,522. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Original application filed Nov. 27, 1908, Serial No. 464,723. Divided and this application filed Mar. 12, 1910, Serial No. 548,769. Renewed Feb. 13, 1922. Serial No. 536,369. 64 Claims. (Cl. 262—30.)

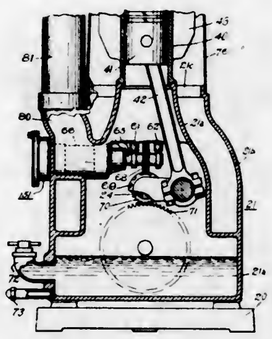


1. In a mining machine, an elongated machine frame slidable relative to a mine bottom, cutter mechanism extending longitudinally thereof from one end thereof, flexible guiding means having its free ends extending laterally from the front and rear ends of said frame and fixed to points in the mine at the advancing and receding sides of said frame, mechanism on said frame for propelling the latter relative to said guiding means, and a movable frame angling take-up on said frame around which a slack portion of said flexible means passes at a point between its fixed point and said propelling mechanism.

1,430,523. DEGUMMING TEXTILE MATERIALS. GEORGES JENNY and OSCAR JAECK, Basel, Switzerland, assignors to Swiss Ferment Company, Ltd., Basel, Switzerland. Filed June 16, 1920. Serial No. 389,453. 6 Claims. (Cl. 87—5.)

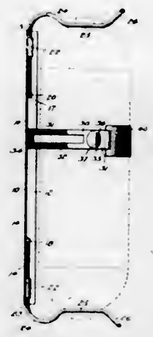
1. An improved biochemical process for degumming textile materials, consisting in first preparing an aqueous degumming bath containing pancreatic amylase, biliary salts and a neutral salt and treating the textile materials to be degummed with the said bath at a temperature of 58 to 60° C.

1,430,524. ENGINE. CHARLES F. KETTERING, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 1, 1918. Serial No. 225,902. 10 Claims. (Cl. 123—195.)



1. In a device of the kind described, the combination in an internal-combustion engine including a crank case, a crank shaft supported thereby, an operating valve, and an ignition device; of a cam shaft provided with a valve cam and an ignition timer cam; a bearing member supporting the cam shaft and provided with means for supporting ignition timer elements which include cooperating stationary and movable contacts adapted to be connected in an ignition circuit; a contact arm carrying the movable contact, mounted on the bearing member, and provided with a portion engaging the timer cam; gearing within the crank case between the cam shaft and crank shaft; and means provided on the crank case for removably supporting the cam shaft bearing member, said supporting means being constructed and arranged so as to permit the removal of the cam shaft and bearing member, and parts assembled thereon, to the exterior of the crank case, while maintaining the latter substantially intact.

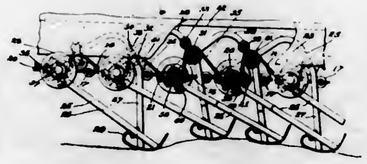
1,430,525. KIT-HOLDING BRACKET. ROLLIN F. WEABER, Washington, D. C., assignor to Adjuris, Incorporated, Washington, D. C., a Corporation of Delaware. Filed Apr. 15, 1922. Serial No. 553,233. 3 Claims. (Cl. 248—20.)



1. A kit holding bracket consisting of a back of sheet metal, a pair of springs secured to the sheet metal back by lugs struck up in said back and a plurality of strips detachably secured to said back wkhen said strips are separated but non-removable from said back when said strips are locked over a kit.

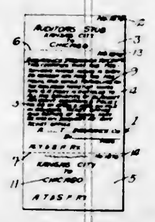
REISSUES.

15,458. TREAD. PHILIP W. DALRYMPLE, Baltimore, Md., assignor to Lewis K. Davis, Washington, D. C. Filed Feb. 20, 1922. Serial No. 537,744. Original No. 1,347,253, dated July 20, 1920, Serial No. 289,707, filed Apr. 12, 1919. 20 Claims. (Cl. 305—10.)



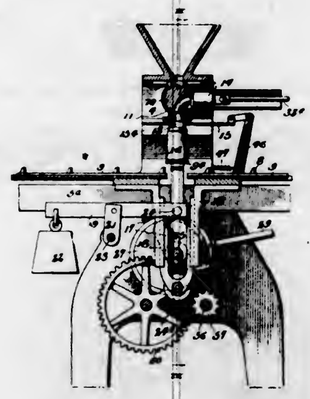
1. A belt tread consisting of a continuous track or guide, a series of followers on the track, a tension member connecting the followers, legs pivotally connected to the respective followers, a foot on each leg, and a flexible tension member engaging each leg at a point spaced from its pivot and likewise engaging the followers and applying an equal downward thrust to each foot of those engaging the surface being traversed, permitting the feet to conform to irregularities of said surface substantially without variation of thrust, and means for moving the connecting tension member and the track followers around the track.

15,459. DEVICE FOR PROVIDING RAILROAD ACCIDENT INSURANCE. GEORGE E. DICKSON, Evanston, Ill. Filed Aug. 21, 1922. Serial No. 583,067. Original No. 1,408,175, dated Feb. 28, 1922, Serial No. 376,544, filed Apr. 26, 1920. 3 Claims. (Cl. 283—23.)



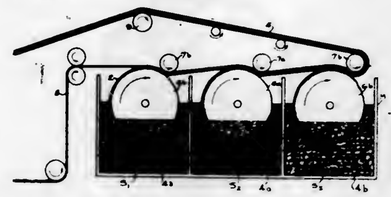
1. Means for use in providing insurance for travelers consisting of a transportation ticket and an insurance premium receipt, said transportation ticket and insurance premium receipt being suitably identified with each other, the ticket bearing printed matter indicating the transportation covered by it and the receipt bearing a printed statement indicating that the holder is insured under a specified blanket insurance policy.

15,460. MACHINE FOR FILLING BOTTLES, ETC. JOHN F. GEYER, Philadelphia, Pa. Filed Mar. 27, 1922. Serial No. 547,251. Original No. 1,401,150, dated Dec. 27, 1921, Serial No. 189,304, filed Sept. 1, 1917. 38 Claims. (Cl. 226—95.)



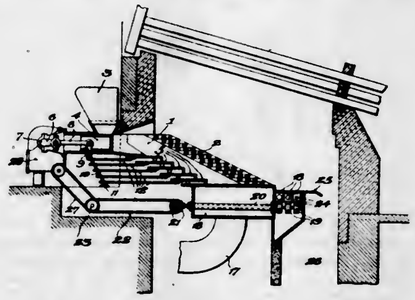
1. A machine of the character described comprising endless conveyor means for progressing vessels to be filled; filling pump means over said conveyor means, with substantially horizontal cylinders, and with rotary control valve means with axis extending transversely of said conveyor means; and means for operating said conveyor, pump, and valve means in definite correlation with one another.

15,461. COMPOSITE FELT AND PROCESS OF MAKING THE SAME. RAY P. PERRY, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed June 3, 1922. Serial No. 565,736. Original No. 1,288,158, dated Dec. 17, 1918, Serial No. 162,121, filed Apr. 14, 1917. 20 Claims. (Cl. 92—41.)



1. A composite strip of paper comprising a layer of material containing a predetermined quantity of fusible bituminous matter in comminuted form, and at least one other layer of material united to the first layer and containing a smaller proportion of bituminous material than said first-mentioned layer, substantially as described.

15,462. AUTOMATIC STOKER OF THE UNDERFEED TYPE. MAURICE RATEL, New York, N. Y. Filed Feb. 17, 1922. Serial No. 537,303. Original application filed Mar. 30, 1914, Serial No. 828,423. Divided and application filed Oct. 5, 1920, Serial No. 414,836. Original No. 1,389,982, dated Sept. 6, 1921. 61 Claims. (Cl. 110—44.)



8. In an automatic underfeed stoker, a series of alternating fuel retorts or troughs and downwardly-inclined twyers, and means for feeding fuel through each of said retorts comprising a main fuel-feeding member, a rod operatively connected to said main fuel-feeding member and pivotally mounted at its opposite end, and a plurality of secondary fuel-feeding members operatively connected to said rod and moved progressively-decreasing amounts.

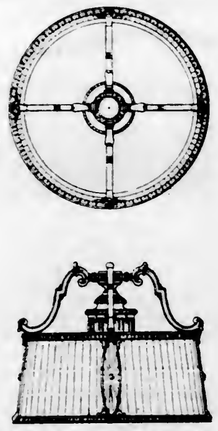
33. In an automatic stoker, a plurality of alternating twyers and fuel retorts or troughs, means for feeding fuel through said retorts to the fuel bed comprising a plurality of fuel-feeding members, and a plurality of reciprocating grate bars at the rear of said retorts and twyers and movable transversely of the same.

51. In an automatic underfeed stoker, an underfeed portion and an overfeed portion, said underfeed portion comprising a series of alternating fuel retorts or troughs and downwardly inclined twyers and said overfeed portion comprising stationary apertured plates disposed between the lower ends of said twyers and stationary apertured plates extending rearwardly from the latter, and means for feeding fuel to said overfeed and underfeed portions.

60. In a gravity underfeed stoker, the combination of a series of alternating retorts and corrugated twyers free from horizontal surfaces.

DESIGNS.

61,515. LIGHTING FIXTURE. PERCY I. ANSORGE, Brooklyn, N. Y. Filed July 20, 1922. Serial No. 3,137. Term of patent 7 years.



The ornamental design for a lighting fixture, as shown.

61,516. ARM FOR LIGHTING FIXTURES. FRANK S. CROWELL, Toledo, Ohio. Filed Feb. 24, 1922. Serial No. 868. Term of patent 3½ years.



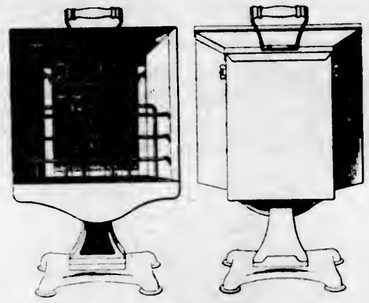
The ornamental design for an arm for lighting fixtures, as shown.

61,517. TEXTILE FABRIC. WALTER V. A. EVERS, Jersey City, N. J., assignor to Rousmaniere, Williams & Co., Boston, Mass., a Partnership consisting of Frank H. Gage, George G. Allen, George A. Lapham, Zenas Sears, Richard A. Harrington, Osmond E. Webber, and Russell C. Wood. Filed July 18, 1922. Serial No. 3,111. Term of patent 3½ years.



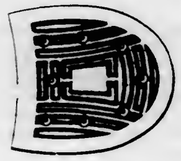
The ornamental design for a textile fabric, as shown.

61,518. HEATING STOVE. JOHN FESTA, Brooklyn, N. Y. Filed Dec. 13, 1921. Serial No. 522,163. Term of patent 14 years.



The ornamental design for a heating stove, as shown.

61,519. RUBBER HEEL. JOHN C. KRIEG and FRANK FISHBAUGH, Newark, Ohio. Filed May 16, 1922. Serial No. 2,272. Term of patent 14 years.





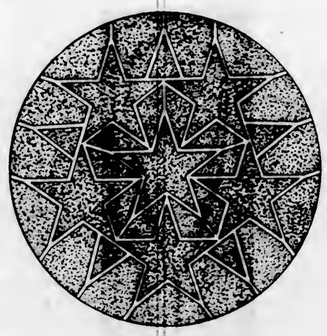
The ornamental design for a rubber heel, as shown.

61,520. CANDY. LEON S. MICHALSKI, Buffalo, N. Y., assignor of one-half to Joseph J. Michalski, Buffalo, N. Y. Filed Apr. 5, 1922. Serial No. 1,547. Term of patent 14 years.



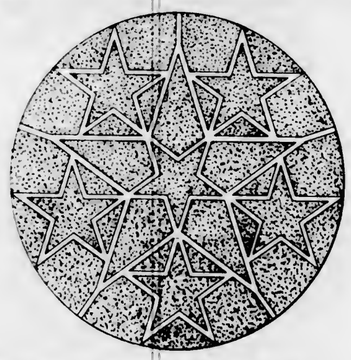
The ornamental design for candy, as shown.

61,521. LENS. FERDINAND PIASZEK, Saginaw, Mich. Filed Feb. 28, 1922. Serial No. 933. Term of patent 14 years.



The ornamental design for a lens as shown.

61,522. LENS. FERDINAND PIASZEK, Saginaw, Mich. Filed Feb. 28, 1922. Serial No. 935. Term of patent 14 years.



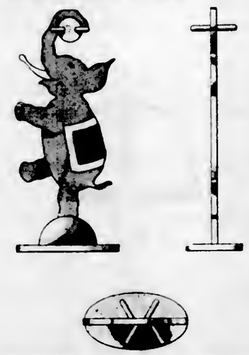
The ornamental design for a lens, as shown.

61,523. LENS. FERDINAND PIASZEK, Saginaw, Mich. Filed Feb. 28, 1922. Serial No. 936. Term of patent 14 years.



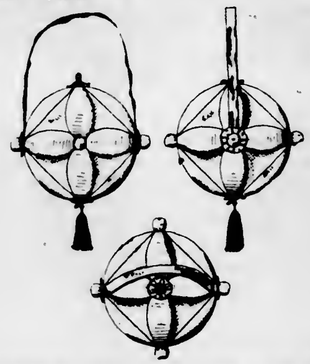
The ornamental design for a lens, as shown.

61,524. CHILD'S COSTUMER. MARGARET ALICE YORK, New York, N. Y. Filed Nov. 22, 1921. Serial No. 517,111. Term of patent 3½ years.



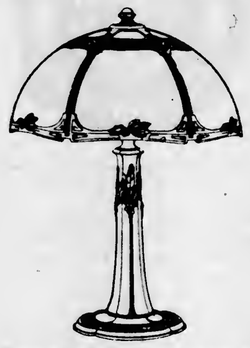
The ornamental design for a child's costumer, as shown.

61,525. PINCUSHION. CHRISTA E. WILLSON, Zionsville, Ind. Filed Oct. 3, 1921. Serial No. 505,187. Term of patent 7 years.



The ornamental design for a pincushion as shown.

61,526. LAMP. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Company, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 6, 1922. Serial No. 561. Term of patent 3½ years.



The ornamental design for a lamp substantially as shown.

61,527. LAMP. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Company, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 6, 1922. Serial No. 562. Term of patent 3½ years.



The ornamental design for a lamp substantially as shown.

61,528. ILLUMINATED SIGN. FRANK ZWICK, Quincy, Ill. Filed June 22, 1922. Serial No. 2,780. Term of patent 14 years.



The ornamental design for an illuminated sign, substantially as shown.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 26, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 103,217. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE CHRISTIAN MOERLEIN BREWING CO., Cincinnati, Ohio. Filed Apr. 23, 1917.



Mark consists of a rectangular white label having a marginal rectangular border, the white field bearing the name "Moerlein's" in script, ending with a paraph, there being also on the white field and preceding the word "Moerlein's" a circular border containing the letter "M" surrounded by a crown, the printing being all in brown on a white field.

Particular description of goods.—Beer.

Claims use since about December, 1906.

Ser. No. 103,219. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE CHRISTIAN MOERLEIN BREWING CO., Cincinnati, Ohio. Filed Apr. 23, 1917.



Consisting of a white label having printed diagonally upon it in script the name "Moerlein's," followed by a paraph, with the word "It's" in script appearing above the word "Moerlein's," there appearing in the flourish of the letter "M" a circular border, containing the letter "M" encircled by a crown. The letter "M" is lined for shading only and does not represent color.

Particular description of goods.—Beer.

Claims use since about May 20, 1907.

Ser. No. 103,220. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE CHRISTIAN MOERLEIN BREWING CO., Cincinnati, Ohio. Filed Apr. 23, 1917.



Mark consists of white rectangular label having cloudy dark center and a skeleton marginal border in red, with the name "Moerlein's" appearing in black script letters and ending in a paraph, below which name appears a circular border with a white field containing the letter "M" in red within a black red-jeweled crown, the border being flanked by red fields within scrolls.

Particular description of goods.—Beer.

Claims use since about Jan. 29, 1905.

Ser. No. 127,012. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) POWER SUPPLY COMPANY, Terre Haute, Ind. Filed Jan. 10, 1920.



The words "Guaranteed Satisfaction" and "Service Always" are hereby disclaimed from the mark shown by the drawing.

Particular description of goods.—Wood Handles for Tools, Steel Alphabets and Figures for Stamping, Hand and Power Augers, Auger Bits and Auger-Bit Sets, Lifting Jacks, Wrenches, Awls, Pliers, Awl and Pliers Combined, Axes, Paper Balers, Band Saws, Band-Saw Filers, Guides and Stretchers, Barrel and Tank Drainers; Claw, Crow, Lining, Pinch, Tamping, and Wrecking Bars; Pole-Anchor-Installing Bars, Slice Bars, Beading Tools, Bitstock Countersinks, Reamers, Twist Drills, Auger, Expansive, Mining-Machine, and Boring-Machine Bits; Blacksmiths' Cones or

Mandrels, Pincers, Punches, Sledges, Swages, Tongs, Vises, Anvil Tools, Hack-Saw Blades, Blasting-Cap Crimpers, Snatch Blocks, Swage Blocks, Tackle Blocks, Box Hooks, Box Scrapers, Branding Irons, Machinery Bushings, Calking Irons, Car Movers, Center Keys for Sockets and Sleeves, Chain Drills, Pipe Tongs and Pipe Vises, Chisels, Wiremen's Splicing Clamps, Clinchers, Clinker Hooks, Soldering Coppers; Grease, Oil, and Priming Cups; Cylinder Lubricators, Pump Cylinders, Lathe Dogs, Drag Earth Scrapes, Emery-Wheel Dressers, Chemical Fire Engines, Hand Fire Extinguishers, Files, Fire Hoes, Fire Hooks, Forks, Steam Gong Whistles, Grease and Oil Guns, Hand Hammers, Power Hammers, Hand and Breast Drills, Machinists' Taps, Hangers for Shafting and Machinery, Hatchets, Blacksmiths' Heading Tools, Woodworking Cutter Heads, Groover or Dado Heads, Cant Hooks, Lug Hooks, Yarning Irons, Jack Screws, Timber Hooks, Machinists' Vises, Mattocks, Mauls, Nail Pullers, Steel Name Stamps, Blasting Needles, Scrapers and Tampers, Cutting Nippers, Hoof Parers, Peaveys, Picks, Pipe Taps, Pipe Reamers, Pipe-Threading Machines, Screw Plates, Drive-Well Points, Oil Pumps, Hand Pumps, Rakes, Ratchet Braces, Ratchet Twist Drills, Ratchet Wrenches, Pump Rods, Saws, Hack-Saw Frames, Saw Handles, Saw Mandrels, Saw Sets, Saw-Setting Machines, Saw Swages, Saw Vises, Scoops, Screw Drivers, Set Collars for Shafting, Twist-Drill Sets, Machine-Bit Sets, Steel Shafting, Shovels, Sledges, Drill Sleeves, Pulley Sleeves, Snips, Drill Sockets, Sprocket Wheels, Switch Stands, Stay-Bolt Taps, Steam Whistles, Screw-Plate Stocks, Pipe Stocks, Mechanical Switches, Oil Syringes, Take-Up Boxes for Power Belts, Taper Mandrels, Taper Pins, Tipple Installations, Tool-makers' Clamps, Belt Tools, Cutting Tools for Metal-Working Machines, Valve-Reseating Tools, Valve Tools, Boiler-Tube Expanders and Cutters, Whistle Valves, Combination Wire Cutters, Air Compressors, Pneumatic Air Drills, Ball Bearings, Bolt Clippers, Tool Chucks, Clamps, Screw-Plate Collets, Combined Countersinks and Drills, Gasket Cutters, Gage-Glass Cutters, Lace-Leather Cutters, Washer Cutters, Cutting-Off Tools, Drawing Knives, Screw-Plate Guides, Power Hack Saws, Lathe-Tool Holders, Belt Knives, Machine Knives, Lathes, Machine Bits, Planes, Scribers, Metal Grinders, Shears, Motor-Testing Machines, Exhaust Fans, Hoists, Pulleys, Transmissions, Friction Clutches, Steam and Gasoline Engines, Overhead Carrier Systems, Blowers, Boiler Feed Pumps, Cranes, Countershafts and Fixtures, Ejectors and Injectors, Glass Cutters, Oil Engines, Pillow Blocks, Planing Mills, and Planing-Mill Exhausters.

Claims use since Dec. 1, 1919.

Ser. No. 128,139. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) CHARLES W. BAYER, doing business as Bayer Sugar Co., Cincinnati, Ohio. Filed Feb. 9, 1920.

BAYER'S CONCENTRATED MALT EXTRACT

BAYER

BAYER

The language "Bayers Concentrated Malt Extract" is disclaimed independently of and apart from the other features of the trade-mark.

Particular description of goods.—Malt Extract and Malt Sugar for Beverage Purposes.

Claims use since December, 1919.

Ser. No. 132,051. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ANDREW J. JORDAN, St. Louis, Mo. Filed May 5, 1920.

OLD FAITHFUL

Particular description of goods.—Razors.

Claims use since Feb. 10, 1888.

Ser. No. 134,012. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHADBURN (SHIP) TELEGRAPH COMPANY OF AMERICA, INC., Troy, N. Y. Filed June 22, 1920.

CHADBURN

Particular description of goods.—Ships' Telegraphs, Clear-View Screens, Searchlight Control, Torpedo Control, Gun Dials for Concentration of Fire Control and Salt Detector; All Electrically Operated.

Claims use since approximately Jan. 1, 1917, and by predecessors approximately since Jan. 1, 1885.

Ser. No. 136,494. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WHEELER VARNISH WORKS, Chicago, Ill. Filed Aug. 25, 1920.

Vel-Tex-Cote

Particular description of goods.—House Paint and Varnish.

Claims use since about Jan. 1, 1916.

Ser. No. 137,835. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JONES OF BINGHAMTON CO. INC., Binghamton, N. Y. Filed Oct. 2, 1920.

BINGHAMTON

OSGOOD

N Y

No claim is made to "Binghamton, N. Y." apart from the trade-mark shown. The lining expresses the color red.

Particular description of goods.—Scales and Weighing Machines Consisting of Union Counter Scales, Fancy Counter Scales, Portable Platform Scales, Wagon Scales, Motor-Truck Scales, and Abattoir or Suspension Scales.

Claims use since 1918.

Ser. No. 139,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WOOLSON SPICE CO., Toledo, Ohio. Filed Oct. 30, 1920.

ARABEST

Particular description of goods.—Coffee.

Claims use since Oct. 4, 1920.

Ser. No. 139,065. (CLASS 31. FILTERS AND REFRIGERATORS.) UNITED IRON WORKS, INC., Kansas City, Mo. Filed Nov. 1, 1920.

"UNITED" IRON WORKS Inc. "FOR SERVICE"

No claim is made to the right to the exclusive use of the words "For Service" except in the setting and relation in which they appear in the drawing and description and specimens of the trade-mark filed with the application.

Particular description of goods.—Refrigerators, Ice Plants, Water-Cooling Systems, Complete and in Units.

Claims use since about January, 1918.

Ser. No. 142,043. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TETRALIN-GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany. Filed Jan. 10, 1921.

Tetralin

Particular description of goods.—Varnishes, Lacquers, Paint Oils, Wood-Conserving Substances in the Nature of Paint; Dry, Ready-Mixed, and Paste Paints and Coloring Ingredients; Furniture Polish and Wax, Liquid Wood Stains.

Claims use since Dec. 12, 1906.

Ser. No. 142,230. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DIMITRI ET DELAUNAY, Paris, France. Filed Jan. 13, 1921.

ISOLANTITE

Particular description of goods.—Compounds Resembling Porcelain for Electrical Insulation.

Claims use since Nov. 23, 1916.

Ser. No. 144,995. (CLASS 2. RECEPTACLES.) MOUND COFFIN CO., St. Louis, Mo. Filed Mar. 18, 1921.

HERCULES

Particular description of goods.—Caskets.

Claims use since on or about Jan. 1, 1920.

Ser. No. 145,553. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) DEARBORN TRUNK & BAG CO., Chicago, Ill. Filed Apr. 1, 1921.

TRAVALONG

Particular description of goods.—Hand Bags, Suitcases, and Trunks.

Claims use since Mar. 1, 1920.

Ser. No. 146,246. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) AMERICAN ENCAUSTIC TILING CO. LTD., Zanesville, Ohio, and New York, N. Y. Filed Apr. 16, 1921.

VITKA

Particular description of goods.—Ceramic Wall, Floor, and Ceiling Tiles and Ceramic Tiles Adapted for Use as Bathroom Fixtures.

Claims use since Nov. 10, 1920.

Ser. No. 146,393. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) POLDI STEEL CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 19, 1921.

POLDI STABIL

Particular description of goods.—Steel Billets, Bars, Forgings, and Disks.

Claims use since Jan. 5, 1921. The mark was used prior to that time in commerce with the United States since 1906 by The Poldi Steel Works, of Prague, Czecho-Slovakia, it being impossible for the applicant to claim use since 1906 for the reason that the Poldi Steel Corporation was not incorporated under the laws of the State of New York until 1920.

Ser. No. 146,683. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) MABEL BLACKMAN, New York, N. Y. Filed Apr. 25, 1921.



Particular description of goods.—Leather-Topped Steel-Soled Overshoes for Horses.

Claims use since Dec. 1, 1920.

Ser. No. 146,978. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FERDINAND BERNARD NORDMAN, Jr., Number Nine Plantation, Volusia County, Fla. Filed Apr. 29, 1921.

9

Particular description of goods.—Fruit Preserves, Citrus Fruits in Their Natural State and Preserved Jellies, Marmalades, Jams, Sirups for Table Use, and Preserved, Spiced, Crystallized, and Candied Fruits.
Claims use since 1895.

Ser. No. 147,035. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHILIP S. KENNEDY, doing business as P. S. Kennedy & Company, Hartford, Conn. Filed Apr. 30, 1921.

Red Stag



Particular description of goods.—Coffee.
Claims use since Jan. 1, 1909.

Ser. No. 147,293. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ISRAEL SIMON KLEINER, doing business as Knickerbocker Products Co., Brooklyn, N. Y. Filed May 6, 1921.

SAC

Trade-mark "S A C."
Particular description of goods.—Nonalcoholic, Maltless Beverages Sweetened with Saccharin, Sold as Soft Drinks—viz, Ginger Ale, Sarsaparilla, Lemon Soda, Root Beer, Birch Beer, and Cream Soda.
Claims use since Feb. 3, 1921.

Ser. No. 147,900. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VAN ARNAM MANUFACTURING COMPANY, Fort Wayne, Ind. Filed May 18, 1921.

NONE BETTER VAN AR CO. MADE

No claim is made to the words "None Better Made," apart from the trade-mark.
Particular description of goods.—Mop Wringers.
Claims use since Apr. 1, 1921.

Ser. No. 148,098. (CLASS 38. PRINTS AND PUBLICATIONS.) TIMES PRINTING COMPANY OF SEATTLE, Seattle, Wash. Filed May 23, 1921.

The Daily Graphic

Particular description of goods.—Newspaper Supplement.
Claims use since May 16, 1921.

Ser. No. 148,858. (CLASS 12. CONSTRUCTION MATERIALS.) THE WOODLAWN MILL & BOOM COMPANY, Hoquiam, Wash. Filed June 8, 1921.

RAINBOW BRAND

No claim is made to word "Brand."
Particular description of goods.—Cedar Shingles.
Claims use since 1916.

Ser. No. 149,216. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ELECTRICITÄTSGESELLSCHAFT "SANITAS" MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany. Filed June 16, 1921.

Radiolux

Trade-mark consists of the word "Radiolux."
Particular description of goods.—Electrical Machines and Apparatus for Röntgen and Electromedical Purposes and Parts Thereof.
Claims use since October, 1920.

Ser. No. 149,409. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MEAD ELECTRIC SIGNAL COMPANY, Cleveland, Ohio. Filed June 20, 1921.

Tele-Call

Particular description of goods.—Electrically-Operated Code Senders or Transmitters of Signals, Used in Automatic Code Signaling, Electric-Fire-Alarm Signal Boxes, Electric Relays and Relay Panels; Electric Bells of the Single-Stroke, Vibrating, and Combination Types; Electric Fans, Electric Motors, and Electrically-Operated Horns, Buzzers, and Whistles.
Claims use since Apr. 8, 1912.

Ser. No. 149,422. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CHARLES M. ROBINSON, Cincinnati, Ohio. Filed June 20, 1921.



ROBINOLA

Particular description of goods.—Talking Machines.
Claims use since Nov. 1, 1916.

Ser. No. 149,614. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y. Filed June 24, 1921. Under section 9 of the act of Mar. 19, 1920.

WORTHINGTON

Particular description of goods.—Battery Lighting Plants, Electric-Lighting Plants, Switchboards.
Claims use since 1917; by Worthington Pump and Machinery Corporation since 1845.

Ser. No. 149,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRIGGS BROS. CO., Toledo, Ohio. Filed June 27, 1921.

NO. 10

Particular description of goods.—Honey.
Claims use since Aug. 1, 1908.

Ser. No. 149,695. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRIGGS BROS. CO., Toledo, Ohio. Filed June 27, 1921.

NO. 15

Particular description of goods.—Honey.
Claims use since Aug. 1, 1908.

Ser. No. 149,696. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRIGGS BROS. CO., Toledo, Ohio. Filed June 27, 1921.

NO. 25

Particular description of goods.—Honey.
Claims use since Aug. 1, 1908.

Ser. No. 149,697. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRIGGS BROS. CO., Toledo, Ohio. Filed June 27, 1921.

NO. 60

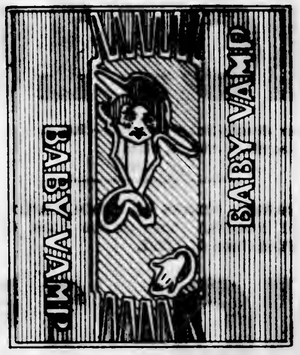
Particular description of goods.—Honey.
Claims use since Aug. 1, 1908.

Ser. No. 149,811. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MIESSNER PIANO CO., Milwaukee, Wis. Filed June 29, 1921.

Monogram

The diagonal lines in drawing indicate shading only.
Particular description of goods.—Pianos.
Claims use since May 27, 1921.

Ser. No. 149,843. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE ZIEGLER CO., Milwaukee, Wis. Filed June 29, 1921.



The vertical lining on mark indicates the color red, diagonal lining the color green.

Particular description of goods.—Candles.

Claims use since May 21, 1921.

Ser. No. 150,692. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) KUPPERS METALLWERKE GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Bonn-on-the-Rhine, Germany. Filed July 20, 1921.

FLUITIN

Particular description of goods.—Solder in the Form of Paste, Soldering Ingots, Soldering Rods, Soldering Rods Filled with Soldering Flux, and Soldering Wires.

Claims use since Feb. 5, 1921.

Ser. No. 151,625. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) GORHAM MANUFACTURING COMPANY, Providence, R. I. Filed Aug. 10, 1921.



Particular description of goods.—Table Glassware, Bottles, and Other Household and Ornamental Glassware Partly Silver or Silver Plated; Electric Lamps and Electroliers Made with Sterling-Silver Standards or Parts; Smoking Articles—Namely, Pipes, Cigar and Cigarette Holders, Pipe, Cigar, and Cigarette Cases, Boxes, Jars, and Humidors for Holding Cigars, Cigarettes, and Smoking Tobacco—Handles or Parts of Which are Made of Sterling Silver; Jewelry Boxes, Powder-Puff Boxes and Similar Containers, Vanity Cases, Made Wholly or in Part of Sterling Silver.

Claims use since 1868.

Ser. No. 151,684. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ENGINEERING COMPANY, Rapid City, S. Dak., assignor to National Engineering & Refining Company, Rapid City, S. Dak., an Association of South Dakota. Filed Aug. 11, 1921.

NECO

Particular description of goods.—Photographic Salts.

Claims use since Mar. 1, 1921.

Ser. No. 151,855. (CLASS 38. PRINTS AND PUBLICATIONS.) TIMES PRINTING COMPANY OF SEATTLE, Seattle, Wash. Filed Aug. 16, 1921.



Particular description of goods.—Column of News in Its Newspaper, Said Column Appearing from Time to Time.

Claims use since July 24, 1921.

Ser. No. 152,108. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE VAN CAMP PACKING COMPANY, INC., Indianapolis, Ind. Filed Aug. 23, 1921. Under ten-year proviso.

NONPAREIL

Particular description of goods.—Salad Oil.

Claims use since 1894.

Ser. No. 152,480. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) POLDI STEEL CORPORATION OF AMERICA, New York, N. Y. Filed Sept. 1, 1921.



Particular description of goods.—Steel Billets, Bars, Forgings, and Disks.

Claims use since Jan. 5, 1921.

Ser. No. 152,773. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) STANDARD SANITARY MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Sept. 9, 1921.

RE-NU

Particular description of goods.—Faucets.

Claims use since Apr. 23, 1921.

Ser. No. 152,837. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WILLIAM B. DURGIN CO., Concord, N. H. Filed Sept. 12, 1921.



Particular description of goods.—Sterling Silverware Comprising Flat and Hollow Ware.

Claims use since about 1854.

Ser. No. 153,486. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VIGNOLO-GIACOMINO COMPANY, INCORPORATED, Los Angeles, Calif. Filed Sept. 28, 1921.



Particular description of goods.—Olive Oil.

Claims use since January, 1891.

Ser. No. 153,746. (CLASS 39. CLOTHING.) TAUNTON RUBBER CO. INC., Taunton, Mass. Filed Oct. 4, 1921.



Particular description of goods.—Rubber Heels.

Claims use since May 1, 1921.

Ser. No. 154,013. (CLASS 15. OILS AND GREASES.) CASTOLENE LUBRICATING OIL CO., San Francisco, Calif. Filed Oct. 12, 1921.



"ASK YOUR MOTOR"

No claim is made to the compound word "Ever-Oils" apart from the mark shown in the drawing.

Particular description of goods.—Lubricating Oils and Greases.

Claims use since July 10, 1910.

Ser. No. 154,035. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORRIS & COMPANY, Chicago, Ill. Filed Oct. 12, 1921.



Trade-mark consists of a yellow band surmounting a black band.

Particular description of goods.—Meats, Meat Products, and Other Foods—Namely, Boiled Beef, Roast Beef, Roast Mutton, Barbecue Hash, Corned-Beef Hash, Sliced Dried Beef, Stewed Kidneys, Veal Loaf, Cooked Brains, Tripe, Cooked Corned Beef, Breakfast Tongues, Sliced Bacon, Mincemeat, Cooked Tongue, Chile Con Carne, Chile Con Carne without Beans, Chile-Con-Carne Loaf, Delicatessen Loaf, Deviled Meat By-Products, Potted Meat By-Products, Cooked Pigs' Feet, Sausage, Sausage with Cereal Added, Sausage with Tomato Sauce, Extract of Beef, Bouillon Cubes, Limburger-Style Cheese, Condensed Milk, Whole-Milk Cheese, Brick Cheese, Full-Cream Cheese, Pork and Beans, Eggs, Oleomargarine, White Oleomargarine, and Butter.

Claims use since Dec. 1, 1919.

Ser. No. 154,150. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB MENDELL, doing business as J. Mendell Candy Co., Brooklyn, N. Y. Filed Oct. 15, 1921.

Wedding Bells

Particular description of goods.—Candy.

Claims use since 1916.

Ser. No. 154,780. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Oct. 29, 1921.

VITALEX

Particular description of goods.—Sugar Product Containing Water-Soluble Vitamines, Obtained from Cereal Germs (Such as Wheat Germs and Maize Germs), Rice Polishings, Bran, and the Like and Used as an Ingredient in the Manufacture of Bread, Cake, and Other Bakery, Cereal, and Food Products.

Claims use since Oct. 4, 1921.

Ser. No. 155,239. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SANDLER BROS. BAKING CO., Baltimore, Md. Filed Nov. 9, 1921.

R-GOOD

Particular description of goods.—Pretzels, Ice-Cream Cones, and Cake.

Claims use since Feb. 20, 1920.

Ser. No. 155,400. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FLEXLUME SIGN COMPANY, Buffalo, N. Y. Filed Nov. 15, 1921.

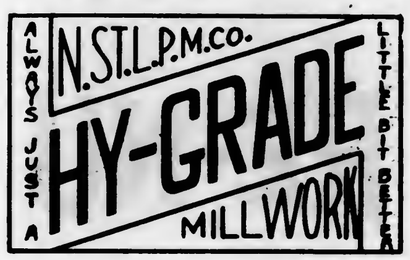


The word "Signs" as it appears in the specimens forming a part of this application is disclaimed apart from the mark shown.

Particular description of goods.—Electrically-Illuminated Signs.

Claims use since March, 1912.

Ser. No. 155,570. (CLASS 12. CONSTRUCTION MATERIALS.) NORTH ST. LOUIS PLANING MILL CO., St. Louis, Mo. Filed Nov. 18, 1921.



No claim is made to the words "Always Just a Little Bit Better," "Hy-Grade," and "Millwork" except in the combination shown.

Particular description of goods.—Everything in Builders' Woodwork and Defined as Millwork.

Claims use since Aug. 11, 1921.

Ser. No. 155,695. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KALLE & Co., Aktiengesellschaft, Biebrich-on-the-Rhine, Germany. Filed Nov. 21, 1921.

Iodol

Particular description of goods.—Pharmaceutical Product Used as a Deodorant Antiseptic for Wounds and as a Substitute for Potassium Iodide, Taken Internally.

Claims use since Jan. 8, 1886.

Ser. No. 155,999. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SAMUEL FROST, New York, N. Y. Filed Nov. 28, 1921.



The applicant disclaims the word or words "Gold Medal Fixtures" and "41 W. 14th Street."

Particular description of goods.—Portable and Non-portable Electrical Lamps.

Claims use since Jan. 1, 1921.

Ser. No. 156,059. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GUY SECORD, doing business as the Puramul Dry Milk Co., Jacksonville, Fla. Filed Nov. 29, 1921.

PURAMUL

Particular description of goods.—Whole-Milk Powder.

Claims use since about July 1, 1921.

Ser. No. 156,258. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GEORGE WILLIAM CURTIS, Jr., doing business as General Beverage Manufactures Co., Cleveland, Ohio. Filed Dec. 5, 1921.



No claim is made to the exclusive use of the representation of a bottle and a glass in the drawing. The lines shown in drawing are for shading purposes only and not to designate any particular color. No claim is made to the exclusive use of the words "Vitamine Beer" or "Nonintoxicating" and "The Health Drink."

Particular description of goods.—Nonintoxicating Beverages Having No Malt, Alcohol, or Similar Content and Being Purely Soft Drink, Like Rootbeer, Birchbeer, and Similar Beverages.

Claims use since Nov. 3, 1921.

Ser. No. 156,351. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH P. BROWNLEE, doing business as Southern Sweet Potato Exchange, Chicago, Ill. Filed Dec. 7, 1921.

Golden Glow

Particular description of goods.—Selected Potatoes in Their Natural State.

Claims use since Sept. 21, 1921.

Ser. No. 156,529. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MARC ALFRED HOLLAND, London, England. Filed Dec. 10, 1921.

DURACY

Particular description of goods.—Watches and Watch Movements.

Claims use since Sept. 15, 1921.

Ser. No. 156,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN H. LEIGHTON, San Francisco, Calif. Filed Dec. 19, 1921.

HIGH-NOON

Trade-mark "High Noon."

Particular description of goods.—Canned and Cured Fruits, Canned Vegetables, Pork and Beans, Catchup, Spaghetti, Sauerkraut, and Maple Sirup.

Claims use since Sept. 14, 1917.

Ser. No. 157,260. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DEMING COMPANY, Salem, Ohio. Filed Dec. 29, 1921. Under ten-year proviso.

DEMING

Particular description of goods.—Power Pumps.
Claims use since about October, 1894.

Ser. No. 157,638. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STAMBAUGH & RABE, Auburndale, Fla. Filed Jan. 7, 1922.

SUNRAY

Particular description of goods.—Citrus Fruits in Their Natural State—Namely, Grapefruit, Oranges, Tangerines, Lemons, Limes, Kumquats, Alligator Pears, and Grapes.
Claims use since Nov. 18, 1921.

Ser. No. 157,647. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Filed Jan. 9, 1922. Under ten-year proviso.



Particular description of goods.—Cotton Goods in the Piece.
Claims use since in or about 1870.

Ser. No. 157,658. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHARLES F. COUNT, Chicago, Ill. Filed Jan. 9, 1922.

INSTANT POLISH

No claim is made to the words "Instant-Polish" apart from the mark shown in the drawing.
Particular description of goods.—Automobile and Furniture Polish.
Claims use since Nov. 18, 1920.

Ser. No. 158,045. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE JUNIOR COFFEE CO., Fort Worth, Tex. Filed Jan. 17, 1922.

Morning Pep

Particular description of goods.—Coffee.
Claims use since about Oct. 1, 1921.

Ser. No. 158,260. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH, KLINE & FRENCH CO., Philadelphia, Pa. Filed Jan. 21, 1922.

Elma

Particular description of goods.—Hard Candies, Soft Candies, and Chocolates.
Claims use since Sept. 19, 1912.

Ser. No. 158,440. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PATHÉ-CINEMA, ANCIENS ETABLISSEMENTS PATHÉ FRÈRES, Paris, France. Filed Jan. 25, 1922.

CINETTE

Particular description of goods.—Apparatus for Taking Cinematographic Pictures, Cinematographic Projection Apparatus, Projecting Lanterns, stereoscopes, Stationary Magic Lanterns, Eyepieces and Spare Parts for Photographic and Cinematographic Apparatus, Cinematographic Film Not Bearing Pictures, and Cinematographic Film Bearing Pictures.
Claims use since Nov. 1, 1921.

Ser. No. 158,441. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PATHÉ-CINEMA, ANCIENS ETABLISSEMENTS PATHÉ FRÈRES, Paris, France. Filed Jan. 25, 1922.

KINETTE

Particular description of goods.—Apparatus for Taking Cinematographic Pictures, Cinematographic Projection Apparatus, Projection Lanterns, Stereoscopes, Stationary Magic Lanterns, Eyepieces and Spare Parts for Photographic and Cinematographic Apparatus, Cinematographic Film Not Bearing Pictures, and Cinematographic Film Bearing Pictures.
Claims use since Nov. 1, 1921.

Ser. No. 158,559. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. AUERBACH & SONS, New York, N. Y. Filed Jan. 28, 1922.

TWIN SPECIALS

No claim is made to the word "Specials" except as associated with the mark shown.
Particular description of goods.—Chocolates.
Claims use since Jan. 1, 1920.

Ser. No. 158,811. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAUL J. AUGSBERGER, Atlantic City, N. J. Filed Feb. 3, 1922.



No claim is made to the word "Brand." The portrait shown is that of applicant.
Particular description of goods.—Smoked Beef.
Claims use since Jan. 3, 1922.

Ser. No. 158,905. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) U. B. S. CANDY STORES, INC., doing business also as United Happiness Candy Stores, Long Island City, N. Y. Filed Feb. 4, 1922.

Gladiola

Particular description of goods.—Candy.
Claims use since Sept. 21, 1921.

Ser. No. 158,980. (CLASS 39. CLOTHING.) SAMUEL L. HOFFMAN, Brooklyn, N. Y., and Jersey City, N. J. Filed Feb. 7, 1922.

Puritan
MAKE

Particular description of goods.—Ladies' House and Street Dresses All Made of Cotton Goods and Men's, Ladies', and Children's Bath Robes All Made of Cotton Goods.
Claims use since Jan. 27, 1922.

Ser. No. 159,146. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HEINRICH DAEMEN-SCHMID, Uster, Switzerland. Filed Feb. 10, 1922.

LOGA

Particular description of goods.—Mechanical Calculating Machines, Adding Machines, Adding Apparatus, Machines for Multiplication and Division, Logarithmic Calculating Rolls, Logarithmic Calculating Machines, Logarithmic Disks, Logarithmic Bars, Logarithmic Tables Forming Parts of Calculating Machines, Logarithmic Rings, and Devices on Scales for Automatically Determining the Price.
Claims use since 1910.

Ser. No. 159,236. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATE PRODUCTS COMPANY, Baltimore, Md. Filed Feb. 11, 1922.

CHANCELLOR

Particular description of goods.—Candy Comprised Wholly or in Part of Chocolate.
Claims use since on or about Nov. 1, 1921.

Ser. No. 159,272. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JAMES MACCALLUM, Jr., St. Louis, Mo. Filed Feb. 13, 1922.

GASO-SCOPE

Particular description of goods.—Device for Indicating Liquid Level in Tanks by Fluid Pressure.
Claims use since about Feb. 7, 1922.

Ser. No. 159,445. (CLASS 10. FERTILIZERS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Feb. 16, 1922.

SNOWHITE

Particular description of goods.—Casting Orthopedic and Dental Plaster.
Claims use since 1917.

Ser. No. 159,470. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MAPPIN & WEBB LIMITED, Sheffield and London, England. Filed Feb. 17, 1922. Under ten-year proviso.

M
TRUSTWORTHY

Particular description of goods.—Tableware Made of Precious Metal or Plated with Precious Metal.
Claims use since May 20, 1890.

Ser. No. 159,475. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) MAPPIN & WEBB, LIMITED, Sheffield and London, England. Filed Feb. 17, 1922.



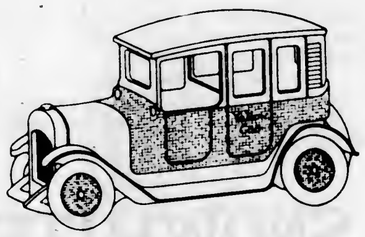
Particular description of goods.—Manicure Scissors, Nail Clippers, Files, and Tweezers for Use Upon the Person.
Claims use since Jan. 26, 1877.

Ser. No. 159,478. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) MAPPIN & WEBB LIMITED, Sheffield and London, England. Filed Feb. 17, 1922.



Particular description of goods.—Lancets, Fleams, Surgical Scissors, and Surgical Cutlery Generally.
Claims use since July 2, 1920.

Ser. No. 159,486. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ARCADE MANUFACTURING COMPANY, Freeport, Ill. Filed Feb. 18, 1922.



Trade-mark consists of the word "Yellow" and in the yellow body and wheels only of the toy automobile. No claim is made to the representation of an automobile nor to the word "Cab" except in the association shown.
Particular description of goods.—Toy Automobiles.
Claims use since December, 1921.

Ser. No. 159,546. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARNOLD BROTHERS, INCORPORATED, Chicago, Ill. Filed Feb. 20, 1922.

ARNOLD BROS.
PRIDE

Particular description of goods.—Bacon.
Claims use since Jan. 1, 1912.

Ser. No. 159,704. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE IVAR-LITE CORPORATION, Malden, Mass. Filed Feb. 23, 1922.

IVAR-LITE

Particular description of goods.—Flash Lights.
Claims use since Jan. 1, 1922.

Ser. No. 159,915. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LOUIS ABSECK, doing business as The Sealastic Co., Brooklyn, N. Y. Filed Feb. 28, 1922.

SEALASTIC

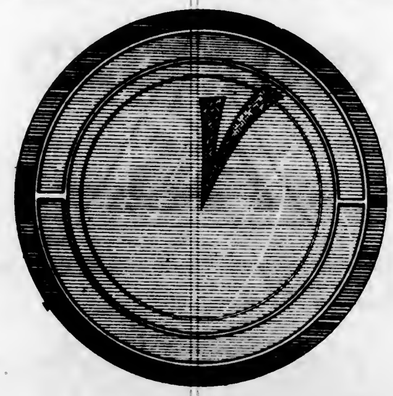
Particular description of goods.—Asphalt Liquid Roof Coating, Asphalt Plastic Cement, Asphalt Calking and Glazing Cement, and Boiler Coating All in the Nature of a Paint.
Claims use since Nov. 15, 1921.

Ser. No. 159,959. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES DEMAS, Seymour, Ind. Filed Feb. 28, 1922.

BANANALOG

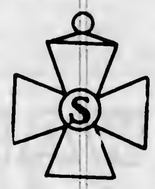
Particular description of goods.—Chocolate-Covered Banana.
Claims use since Jan. 9, 1922.

Ser. No. 160,023. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PACIFIC STATES ELECTRIC CO., San Francisco, Calif. Filed Mar. 1, 1922.



The drawing is lined to indicate the colors orange and blue.
Particular description of goods.—Electrical Apparatus and Fixtures, as Follows: Electric-Lamp Sockets and Parts Thereof, Lamp Bases and Parts Thereof, Switches and Parts Thereof.
Claims use since Nov. 1, 1921.

Ser. No. 160,030. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SANDVIKENS JERNVERKS AKTIEBOLAG, Sandvikens, Sweden. Filed Mar. 1, 1922.



Particular description of goods.—Springs for General Use.
Claims use since Aug. 13, 1887.

Ser. No. 160,227. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ALABAMA BROOM AND MATTRESS CO., Huntsville, Ala. Filed Mar. 6, 1922.



PIG-NOSE

Particular description of goods.—Brooms.
Claims use since Feb. 17, 1922.

Ser. No. 160,237. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE DU-ALL MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 6, 1922.

Du-All

Particular description of goods.—Mops and a Species of Mops Known in the Trade as Dusters for Dusting, Cleaning, and Polishing Purposes.
Claims use since on or about Oct. 14, 1921.

Ser. No. 160,407. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) GILLESPIE EDEN CORPORATION, New York, N. Y. Filed March 9, 1922.

The Eden

Particular description of goods.—Ironers and Ironing Machines for Laundry Use or for Smoothing Textile Fabric.
Claims use since 1913.

Ser. No. 160,426. (CLASS 11. INKS AND INKING MATERIALS.) THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Filed Mar. 9, 1922.



No exclusive rights are claimed in the use of the words "Gritless News Ink," except in the connection shown in the drawing.
Particular description of goods.—Printing Inks.
Claims use since Apr. 1, 1921.

Ser. No. 160,453. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WITMOR CANDY CO., San Francisco, Calif. Filed Mar. 9, 1922.

WITMOR'S

Particular description of goods.—Candy.
Claims use since Feb. 16, 1916.

Ser. No. 160,610. (CLASS 27. HOROLOGICAL INSTRUMENTS.) S. & N. KATZ, Baltimore, Md. Filed Mar. 13, 1922.

DICTATOR

Particular description of goods.—Watches.
Claims use since November, 1921.

Ser. No. 160,664. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GEDGE-GRAY COMPANY, Lockland, Ohio. Filed Mar. 14, 1922. Under ten-year proviso.

GARDNER'S

Particular description of goods.—Sifters for Bakers, Millers, Flour Dealers, Hotels and Restaurants, Druggists, Chemists, and Perfumers; Combined Sifters and Mixers for Retail Druggists and Manufacturers of Baking Powders, Tooth, Face, and Other Dry Powders; Combined Sifters and Mixers for Grocers, Coffee and Chicory Merchants, Confectioners, Manufacturing Chemists and Druggists, Makers of Self-Rising Flour, Baking, Tooth, Seidlitz, Condition, and Plate Powders, Snuff, Cattle and Poultry Foods, Spices, Colors, and All Trades Requiring Dry and Lumpy Ingredients Thoroughly Broken Up, Sifted, and Blended Together; Combined Feeders, Sifters, and Mixers for Flours, Powders, or Ingredients to be Mixed or Blended; Combined Sifters and Mixers and Conveyers for Stock and Poultry Food and Materials of a Granular Nature; Combined Separators and Sifters for Separating and Grading Gum, Cork, Sand, and Gravel; Paste Mixers for Paper Mills, Bookbinders, Cardboard Manufacturers, and Bill Posters; Combined Sifters, Elevators, and Conveyers for Handling and Sifting Flour; Paint and Liquid Mixers, Combined Fertilizer Sifters and Mixers, and Fertilizer Mixers.
Claims use since Jan. 1, 1892.

Ser. No. 160,701. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELBEE CHOCOLATE CO. INC., New York, N. Y. Filed Mar. 15, 1922.

BOMBO

Particular description of goods.—Candies.
Claims use since Oct. 1, 1921.

Ser. No. 160,843. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE A. K. S. JEWELRY MFG. CO., New York, N. Y. Filed Mar. 18, 1922.

AKS

Particular description of goods.—Finger Rings, Bracelets, Brooches, and Bar Pins.
Claims use since March, 1916.

Ser. No. 160,886. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KANSAS CITY WALL PAPER CO., Kansas City, Mo. Filed Mar. 18, 1922.

KC-CO

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints, Putty, Linseed Oil, Turpentine, Paint Pigments, and Paint Colors.
Claims use since Mar. 1, 1920.

Ser. No. 160,890. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LOUISVILLE WALL PAPER CO. INC., Louisville, Ky. Filed Mar. 18, 1922.

LOWAPA

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints, Putty, Linseed Oil, Turpentine, Paint Pigments, and Paint Colors.
Claims use since Mar. 1, 1920.

Ser. No. 160,899. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NEBRASKA WALL PAPER CO., Omaha, Nebr. Filed Mar. 18, 1922.

NEBCO

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints, Putty, Linseed Oil, Turpentine, Paint Pigments, and Paint Colors.
Claims use since Mar. 1, 1920.

Ser. No. 161,006. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) J. F. KURFEES PAINT COMPANY INCORPORATED, Louisville, Ky. Filed Mar. 21, 1922.

CHINAOID

Particular description of goods.—Prepared Liquid Enamel Paint.
Claims use since August, 1897.

Ser. No. 161,026. (CLASS 2. RECEPTACLES.) BOSTON DRINKING CUP CO., Boston, Mass. Filed Mar. 22, 1922.

Beeco

Trade-mark "Beeco."
Particular description of goods.—Paper Drinking Cups.
Claims use since June 30, 1916.

Ser. No. 161,244. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) FORBES BOTTLING CO., Park Ridge, Ill. Filed Mar. 25, 1922.

LIKKER

Particular description of goods.—Nonalcoholic Malt-less Beverages.
Claims use since Mar. 11, 1922.

Ser. No. 161,328. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE MEADOWS MFG. CO., Bloomington, Ill. Filed Mar. 27, 1922.

Meadow Lark

Particular description of goods.—Washing Machines for Laundry Purposes.
Claims use since about Sept. 1, 1921.

Ser. No. 161,414. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed Mar. 29, 1922.

FIRST QUALITY OF JAPAN SILK
CORTLINE BRAND
"VACUOIL"
IMPREGNATED LINE
PATENT PENDING
ENAMELED SILK
QUALITY FIRST
FLY LINE

No claim is made to the exclusive use of the words "First Quality of Japan Silk," the representation of the fish and fishing line, "Enameled Silk Fly Line, Quality First," "Brand, Impregnated Line, Patent Pending" apart from the mark as shown in the drawing.
Particular description of goods.—Enameled Japan-Silk Fishing Lines.
Claims use since Mar. 6, 1922.

Ser. No. 161,440. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WM. LEWIS & SON, Chicago, Ill. Filed Mar. 29, 1922.

RAO

Particular description of goods.—Strings for Musical Instruments, Such as Violins, Cellos, and the Like.
Claims use since Mar. 24, 1922.

Ser. No. 161,451. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PATEK BROTHERS, Milwaukee, Wis. Filed Mar. 29, 1922.

SURFASAVER

Particular description of goods.—Varnishes.
Claims use since Mar. 10, 1922.

Ser. No. 161,476. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMERICAN LINSEED COMPANY, New York, N. Y. Filed Mar. 30, 1922.

ALINCO

Particular description of goods.—Linseed Oil.
Claims use since 1916.

Ser. No. 161,485. (CLASS 15. OILS AND GREASES.) GREAT SOUTHERN REFINING COMPANY, Lexington, Ky. Filed Mar. 30, 1922.

BLUE GRASS

Particular description of goods.—Kerosene and Gasoline.
Claims use since about Feb. 16, 1920.

Ser. No. 161,558. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LAFATA & BORELLI, Brooklyn, N. Y. Filed Mar. 31, 1922.

LABOREL

Particular description of goods.—Polish for Furniture, Automobiles, and Other Articles.
Claims use since Mar. 15, 1922.

Ser. No. 161,592. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TOCH BROTHERS, New York, N. Y. Filed Mar. 31, 1922.

Liquid Quilting

Particular description of goods.—Waterproofing Compositions for Use Between Decks of Ferryboats and in Like Places.
Claims use since about 1904.

Ser. No. 161,596. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TOCH BROTHERS, New York, N. Y. Filed Mar. 31, 1922.

Trimbak

Particular description of goods.—Damp-Resisting Paints.
Claims use since about May, 1916.

Ser. No. 161,769. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) R. E. DIETZ COMPANY, New York, N. Y. Filed Apr. 5, 1922.

SCOUT

Particular description of goods.—Oil-Burning Lanterns and the Burners and Metal Parts Thereof.
Claims use since about Dec. 1, 1921.

Ser. No. 162,003. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD CO., New York, N. Y. Filed Apr. 10, 1922.

MARILYN

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since Sept. 1, 1921.

Ser. No. 162,085. (CLASS 39. CLOTHING.) DENVER M. WRIGHT, doing business as Wright Specialty Mfg. Co., St. Louis, Mo. Filed Apr. 10, 1922.

"AIR-O"

Particular description of goods.—Belts for Men's and Women's Wear.
Claims use since July 8, 1918.

Ser. No. 162,125. (CLASS 2. RECEPTACLES.) JAMES MCCREERY & COMPANY, New York, N. Y. Filed Apr. 11, 1922.

La Gloire

Particular description of goods.—Powder Boxes, Jewel Boxes, Pin Boxes, Soap Boxes, Hair Receivers, Salve Jars, Toothbrush Holders, Perfume-Bottle Holders, Vases, and Trays of Celluloid, Rubber, Ivory, Shell, Amber, Bone, Horn, or the Imitations Thereof.
Claims use since Oct. 25, 1921.

Ser. No. 162,127. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) JOHN B. MURPHY, INC., New York, N. Y. Filed Apr. 11, 1922.



Particular description of goods.—Medals and Badges for Personal Wear Made of or Plated with Precious Metals.
Claims use since Mar. 1, 1922.

Ser. No. 162,165. (CLASS 39. CLOTHING.) EPSTEIN UNDERWEAR CO., New York, N. Y. Filed Apr. 12, 1922.

EUCO Lorelei

Particular description of goods.—Clothing—Namely, Women's Silk Underwear Consisting of Envelope Chemises, Corset Covers, Camisoles, Nightgowns, Step-Ins, Bloomers, Vests, Princess Slips, and Petticoats, Also for Women's Skirts, Sacks, Kimonos, Pyjamas, Lounging Robes, and Negligees, Said Silk Being a Textile Fabric.
Claims use since Jan. 1, 1922.

Ser. No. 162,235. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) RECORDO PLAYER ROLL COMPANY, Chicago, Ill. Filed Apr. 12, 1922.

RECORDO

Particular description of goods.—Music Sheets for Musical Instrument Players.
Claims use since Feb. 10, 1922.

Ser. No. 162,295. (CLASS 15. OILS AND GREASES.) HARWOOD BROS. INC., Richmond, Va. Filed Apr. 14, 1922.

NO-CHAT

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Jan. 20, 1922.

Ser. No. 162,352. (CLASS 2. RECEPTACLES.) THOMAS J. SUCHRUA, Chicago, Ill. Filed Apr. 15, 1922.

IVA

Particular description of goods.—Coin Holders.
Claims use since Mar. 18, 1922.

Ser. No. 162,407. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HOLBROOK, MERRILL & STETSON, San Francisco and Los Angeles, Calif. Filed Apr. 17, 1922.

GOODS OF QUALITY HM&S

The words "Goods of Quality" are disclaimed apart from the mark shown.
Particular description of goods.—Coal, Coke, Wood, Gas, and Oil Ranges; Cooking and Heating Stoves and Stovepipe, Furnaces, and Water and Tank Heaters; Coal, Coke, Wood, and Garbage Kitchen Heaters; Gas Shelves and Plates; Ovens for Gas, Gasoline, and Oil Stoves; Coal, Wood, Gas, Steam, and Water, and Range Boilers; Steam and Water Radiators, and Camp Ovens.
Claims use since 1907.

Ser. No. 162,408. (CLASS 2. RECEPTACLES.) HOLBROOK, MERRILL & STETSON, San Francisco and Los Angeles, Calif. Filed Apr. 17, 1922.

GOODS OF QUALITY HM&S

The words "Goods of Quality" are disclaimed apart from the mark shown.
Particular description of goods.—Refuse Receptacles.
Claims use since 1907.

Ser. No. 162,486. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. C. DE WITT & Co., INC., New York, N. Y., and Chicago, Ill. Filed Apr. 18, 1922. Under ten-year proviso.

DeWITT'S

Particular description of goods.—Laxative Sirup and Tablets; Kidney, Bladder, and Rheumatic Pills; Gall Salve, Toilet Cream, Antiseptic Foot Tablets, Liniment for Neuralgia, Rheumatism, Stiff Joints, Etc., Cough Sirup, Headache Tablets, and Catarrhal Cream.
Claims use since January, 1889.

Ser. No. 162,494. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN B. MONTGOMERY, doing business as Hairette Remedy Company, Los Angeles, Calif. Filed Apr. 18, 1922.

HAIRETTE

Particular description of goods.—Liquid Hair Tonic.
Claims use since Aug. 3, 1919.

Ser. No. 162,601. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ATLANTIC INSTRUMENT CO., INC., New York, N. Y. Filed Apr. 20, 1922.

ATLANTIC
WAVES IN EVERY HOME

Particular description of goods.—Wireless Telephone Receiving Outfits, Sending Suits, and Accessories Thereto—viz, Rheostats, Variometers, Variocouplers, Valve Sockets, Loud-Speaking Horns, Amplifying Transformers, and Condensers.
Claims use since on or about Jan. 2, 1922.

Ser. No. 162,726. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) DOERR GLASS COMPANY, INC., Vineland, N. J. Filed Apr. 22, 1922.

DOERCO

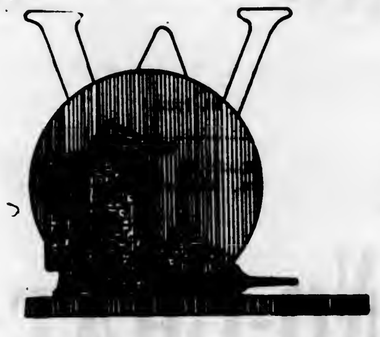
Particular description of goods.—Laboratory, Chemical, and Surgical Glassware—Namely, Glass Measuring Instruments, Graduated and Plain Pipettes, Burettes, and Cylinders, and Glass Gauge Tubes.
Claims use since November, 1916.

Ser. No. 162,844. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NEW ORLEANS PAINT & COLOR COMPANY, INC., New Orleans, La. Filed Apr. 24, 1922.

LIMAX

Particular description of goods.—Dry, Paste, and Ready-Mixed Paints and Varnishes.
Claims use since Jan. 1, 1921.

Ser. No. 162,803. (CLASS 15. OILS AND GREASES.) WADHAMS OIL COMPANY, Milwaukee, Wis. Filed Apr. 24, 1922.



Particular description of goods.—Lubricating Oils.
Claims use since Jan. 1, 1920.

Ser. No. 162,890. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EDGAR PARK, New York, N. Y. Filed Apr. 25, 1922.

PUNG CHOW

Particular description of goods.—Game Played with Pieces Somewhat Similar to Dominoes.
Claims use since Mar. 15, 1922.

Ser. No. 163,025. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed Apr. 28, 1922.



Particular description of goods.—Optical Goods, and Particularly Spectacles, Eyeglasses, and Other Ophthalmic Mountings and Parts Thereof.
Claims use since Jan. 1, 1882.

Ser. No. 163,091. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LALLEY RADIO CORPORATION, Detroit, Mich. Filed Apr. 29, 1922.



The drawing is lined to denote red and black. No claim is made to the word "Radio" apart from the mark shown in the drawing.
Particular description of goods.—Radio Receiving Sets.
Claims use since Apr. 17, 1922.

Ser. No. 163,143. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ARCHIBALD W. DIACK, Detroit, Mich. Filed May 1, 1922.

Diack

Trade-mark shown in drawing is in applicant's handwriting.
Particular description of goods.—Pyrometers.
Claims use since Apr. 27, 1921.

Ser. No. 163,147. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WM. FILENE'S SONS COMPANY, Boston, Mass. Filed May 1, 1922.

MAGNOLIA

Trade-mark "Magnolia."
Particular description of goods.—Hair Nets (Meaning Thereby Nets for the Hair Made of Real Hair).
Claims use since Apr. 26, 1922.

Ser. No. 163,283. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NEPTUNE BATTERY CO., New York, N. Y. Filed May 3, 1922.

NEPTUNE

Particular description of goods.—Electric Batteries.
Claims use since Sept. 12, 1921.

Ser. No. 163,364. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SAMUEL P. TOWNSEND, doing business as S. P. Townsend Company, Bloomfield, N. J. Filed May 4, 1922.

MULTIPLEX

Particular description of goods.—Mowing Machines.
Claims use since Mar. 15, 1922.

Ser. No. 163,371. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BEAVER MACHINE & TOOL CO., INC., Newark, N. J. Filed May 5, 1922.

"Baby Grand"

Particular description of goods.—Radio Receiving Sets.
Claims use since Apr. 1, 1922.

Ser. No. 163,421. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed May 5, 1922.

AERIOLA GRAND

Particular description of goods.—Radio Telephone and Telegraph Transmitters and Receivers, Antenna Outfits, Head Phones, Loud Speakers, Tuners, Amplifiers, and Detectors.
Claims use since Dec. 23, 1921.

Ser. No. 163,429. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AMERICAN TUBE AND STAMPING COMPANY, Bridgeport, Conn. Filed May 6, 1922.

A-TAS-CO.

Trade-mark "A-Tas-Co."
Particular description of goods.—Lifting Jacks.
Claims use since Mar. 4, 1922.

Ser. No. 163,497. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOWEN PRODUCTS CORPORATION, Auburn, N. Y. Filed May 8, 1922.



Particular description of goods.—Lubricating System or Apparatus and Parts Thereof for Motor Cars and Trucks.
Claims use since Apr. 24, 1922.

Ser. No. 163,508. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PHILIP E. EDELMAN, New York, N. Y. Filed May 8, 1922.



No claim to words "Multitone," "Complete Crystal Receiver, Patents Applied for P. E. Edelman, E. E., New York City" except in connection with the word "Aladdin."
Particular description of goods.—Complete Crystal Receiver and Complete Radio or Wireless Receiving Outfits and Sets and Radio Telephone Receiving Sets and Parts and Radio-Apparatus Parts Comprising Antenna, Insulators, Ground Clamps, Binding Posts, Switch Levers, and Headsets.
Claims use since Dec. 22, 1921.

Ser. No. 163,555. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PAUL F. WEISS, doing business as Radio Improvement Co., Not Inc., Chicago, Ill. Filed May 8, 1922.

MAXOLOUD

Particular description of goods.—Radio Apparatus, Particularly Loud-Speaking Horns and Radio Receivers and Reproducers.
Claims use since Mar. 29, 1922.

Ser. No. 163,723. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALSH & MEAD, New York, N. Y. Filed May 11, 1922.

SPEED—O

Trade-mark consists of the hyphenated word "Speed-O."
Particular description of goods.—Valve Lifters.
Claims use since Oct. 1, 1921.

Ser. No. 163,816. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MYLES SALT CO., LTD., New Orleans, La. Filed May 13, 1922.



Particular description of goods.—Salt.
Claims use since March, 1922.

Ser. No. 163,905. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE UPJOHN COMPANY, Kalamazoo, Mich. Filed May 15, 1922.

Citrocarbonate

Particular description of goods.—Effervescent Salt.
Claims use since Apr. 2, 1921.

Ser. No. 163,924. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. & B. Co., New York, N. Y. Filed May 16, 1922.

F. & B.

Particular description of goods.—Lotion for the External Treatment of Skin Diseases, Sores, Eruptions, and Festers.
Claims use since Dec. 1, 1921.

Ser. No. 163,964. (CLASS 12. CONSTRUCTION MATERIALS.) THE BARBER ASPHALT PAVING COMPANY, Philadelphia, Pa. Filed May 17, 1922. Under ten-year proviso.



Particular description of goods.—Asphalt, Crude and Refined, and Paving Materials Containing Asphalt.
Claims use since July 1, 1922.

Ser. No. 163,995. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) LEVLIN MFG. CO., Bradford, Pa. Filed May 17, 1922.

LEVLIN PACTOP

Particular description of goods.—Closures for Cigarette Packages and Tobacco Packages or Bags.
Claims use since Apr. 25, 1922.

Ser. No. 164,021. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOND FOUNDRY AND MACHINE COMPANY, Manheim, Pa. Filed May 18, 1922.

LYTESTRONG

Particular description of goods.—Shaft Hangers.
Claims use since September, 1910.

Ser. No. 164,022. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOND FOUNDRY AND MACHINE COMPANY, Manheim, Pa. Filed May 18, 1922.

LYTESTRONG JUNIOR

Particular description of goods.—Shaft Hangers.
Claims use since March, 1921.

Ser. No. 164,030. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EASTMAN KODAK COMPANY, Rochester, N. Y. Filed May 18, 1922.

VITAVA

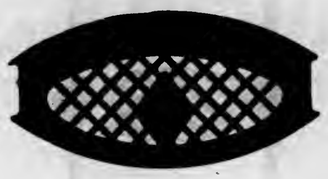
Particular description of goods.—Light-Sensitive Photographic Paper.
Claims use since May 1, 1922.

Ser. No. 164,031. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EASTMAN KODAK COMPANY, Rochester, N. Y. Filed May 18, 1922.

ATHENA

Particular description of goods.—Light-Sensitive Photographic Paper.
Claims use since May 1, 1922.

Ser. No. 164,032. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EASTMAN KODAK COMPANY, Rochester, N. Y. Filed May 18, 1922.



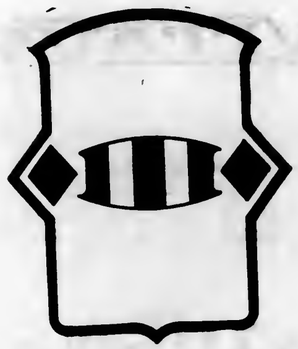
Particular description of goods.—Light-Sensitive Photographic Paper.
Claims use since May 1, 1922.

Ser. No. 164,033. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EASTMAN KODAK COMPANY, Rochester, N. Y. Filed May 18, 1922.



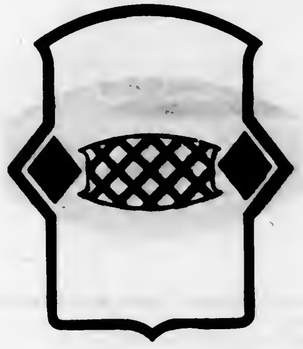
Particular description of goods.—Light-Sensitive Photographic Paper.
Claims use since May 1, 1922.

Ser. No. 164,034. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EASTMAN KODAK COMPANY. Rochester, N. Y. Filed May 18, 1922.



Particular description of goods.—Light-Sensitive Photographic Paper.
Claims use since May 1, 1922.

Ser. No. 164,035. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EASTMAN KODAK COMPANY Rochester, N. Y. Filed May 18, 1922.



Particular description of goods.—Light-Sensitive Photographic Paper.
Claims use since May 1, 1922.

Ser. No. 164,110. (CLASS 11. INKS AND INKING MATERIALS.) KOLOK MANUFACTURING CO. LTD., Tottenham, London, England. Filed May 19, 1922.

Kolok

Particular description of goods.—Carbon Paper, Typewriter Ribbons, Self-Inking Stamp Pads, and Stamp-Pad Inks.
Claims use since Aug. 1, 1904.

Ser. No. 164,182. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MERRIMAC BATTERY PLATE CO. INC., Louisville, Ky. Filed May 20, 1922.



No claim is made to the words "Hand Made Armored Battery."
Particular description of goods.—Storage Batteries.
Claims use since about May 1, 1921.

Ser. No. 164,263. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PNEUMATIC SCALE CORPORATION, LIMITED, Quincy, Mass. Filed May 22, 1922.

LILIPUT

Particular description of goods.—Labeling and Gumming Machines.
Claims use since 1919.

Ser. No. 164,277. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE H. D. SMITH & COMPANY, Plantsville, Conn. Filed May 22, 1922.

SIX-SIXTY

Particular description of goods.—Screw Drivers.
Claims use since Apr. 24, 1922.

Ser. No. 164,321. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HEISLER RADIO CORPORATION, Indianapolis, Ind. Filed May 23, 1922.



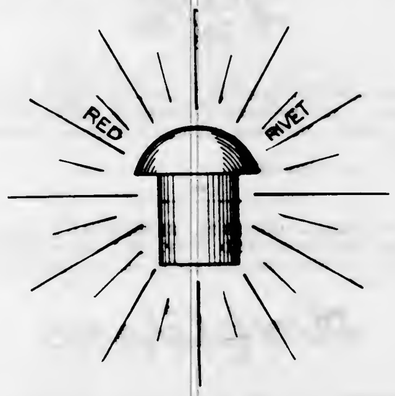
Particular description of goods.—Radio Equipment Comprising Receiving Sets and Parts Thereof.
Claims use since Apr. 25, 1922.

Ser. No. 164,324. (CLASS 38. PRINTS AND PUBLICATIONS.) KING FEATURE SYNDICATE, INC., New York, N. Y. Filed May 23, 1922.

TOOTS AND CASPER

Particular description of goods.—Cartoons.
Claims use since July 14, 1919.

Ser. No. 164,405. (CLASS 13. HEATING AND PLUMBING AND STEAM-FITTING SUPPLIES.) EXPANDED METAL SAFETY GUARD CO., Long Island City, N. Y. Filed May 24, 1922.



Particular description of goods.—Open-Mesh Partitions, Guards, Steel Gratings and Grilles, and Folding Gates.
Claims use since Mar. 9, 1922.

Ser. No. 164,439. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) J. ROY HUNT, INC., Long Island City, N. Y. Filed May 24, 1922.



No claim is made to the word "Radio" apart from the mark shown in drawing.
Particular description of goods.—Radio Receiving Apparatus, Radio Tube Mountings, Rheostats, Amplifying Transformers, Jacks and Plugs, and Connecting Blocks.
Claims use since Apr. 15, 1922.

Ser. No. 164,444. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MORELAND SALES CORPORATION, Newark, N. J. Filed May 24, 1922.

MORADIO

Particular description of goods.—Radio Receiving Apparatus and Sets.
Claims use since Mar. 15, 1922.

Ser. No. 164,451. (CLASS 38. PRINTS AND PUBLICATIONS.) PASSAIC HERALD COMPANY, Passaic, N. J. Filed May 24, 1922.

PASSAIC DAILY HERALD

Particular description of goods.—Daily Newspaper.
Claims use since 1873.

Ser. No. 164,532. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BUFFALO SPECIALTY COMPANY, Buffalo, N. Y. Filed May 26, 1922.

GO-DEVIL

Particular description of goods.—Drain Solvents.
Claims use since Mar. 20, 1922.

Ser. No. 164,551. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL FIBER TEXTILE COMPANY, Neenah, Wis. Filed May 26, 1922.

KIMLARK

Particular description of goods.—Woven Fiber Rugs.
Claims use since Apr. 12, 1922.

Ser. No. 164,581. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BUFFALO LENS MFG. CO., INC., Buffalo, N. Y. Filed May 27, 1922.



No claim is made to the exclusive use of the word "Quality" apart from the mark shown in the drawing.
Particular description of goods.—Opthalmic Lenses.
Claims use since May 1, 1921.

Ser. No. 164,593. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HOLMAN SOAP CO., Chicago, Ill. Filed May 27, 1922.

PALM·CO·OIL

The word "Oil" appearing on drawing is disclaimed apart from the mark shown.

Particular description of goods.—Toilet Soap.
Claims use since March, 1922.

Ser. No. 164,598. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LUDWIG HOMMEL & Co., Pittsburgh, Pa. Filed May 27, 1922.



The words "Trade-Mark" are disclaimed as part of the mark.

Particular description of goods.—Radio or Wireless Telephone Apparatus and Equipment, Transmitting Apparatus, Receiving Sets, and Parts Thereof.
Claims use since Apr. 24, 1922.

Ser. No. 164,604. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE RADIOLA WIRELESS CORP., New York, N. Y. Filed May 27, 1922.

AEROVOX

Particular description of goods.—Wireless Receiving and Transmitting Sets, Crystal Detectors, Vacuum-Tube Sockets, Rheostats, Switches, and Dials.
Claims use since Apr. 1, 1922.

Ser. No. 164,610. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SHOTTON RADIO MANUFACTURING COMPANY, INC., Albany, N. Y. Filed May 27, 1922.

SHRAMCO

Particular description of goods.—Radio Telephone and Telegraph Parts—Namely, Rheostats, Batteries, Telephone Receivers, Wire Insulators, and Electrical Switches.
Claims use since Aug. 1, 1919.

Ser. No. 164,662. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ORINOKA MILLS, New York, N. Y. Filed May 29, 1922.

ORINOKA



Particular description of goods.—Upholstery Goods, Draperies, and Furniture Coverings of Cotton, Wool, Artificial Silk, Mercerized Cotton, and Mixtures of These Goods.
Claims use since 1885.

Ser. No. 164,728. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) W. C. SHINN MFG. CO., Niles, Mich., and Chicago, Ill. Filed May 31, 1922.

Amplitone

Particular description of goods.—Antenna Cable.
Claims use since Apr. 25, 1922.

Ser. No. 164,737. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS WALTHER MANUFACTURING COMPANY, Philadelphia, Pa. Filed May 31, 1922.

Cleo-Vella

Particular description of goods.—Worsted Piece Goods, Woolen Piece Goods, Worsted and Cotton Piece Goods, Woolen and Cotton Piece Goods, and Worsted and Silk Piece Goods.
Claims use since on or about May 1, 1922.

Ser. No. 164,761. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERNATIONAL MAGAZINE CORPORATION, New York, N. Y. Filed June 1, 1922.

INTERNATIONAL
BULLETIN

Particular description of goods.—Monthly Publication.
Claims use since May 15, 1922.

Ser. No. 164,828. (CLASS 37. PAPER AND STATIONERY.) THE PARKER PEN CO., Janesville, Wis. Filed June 2, 1922. Under section 9 of the act of Mar. 19, 1920.

PARKER LUCKY CURVE

Particular description of goods.—Fountain Pens.
Claims use since 1891.

Ser. No. 164,880. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) J. & C. FISCHER, New York, N. Y. Filed June 3, 1922.

The Soul of Harmony

Particular description of goods.—Phonographs.
Claims use since Apr. 1, 1922.

Ser. No. 164,888. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 3, 1922.

SAXON



Particular description of goods.—Bedspreads and Pillow Shams.
Claims use since 1909.

Ser. No. 165,004. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SAMUEL BOWLEY BARNES, doing business as Barnes and Mullins, London, England. Filed June 5, 1922.

SWANEE

Particular description of goods.—Wind Musical Instrument in the Nature of a Whistle.
Claims use since Apr. 2, 1921.

Ser. No. 165,124. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THOMAS S. DOLAN & Co., New York, N. Y. Filed June 7, 1922.

DOLANCO

Particular description of goods.—Lace Curtains by the Pair, and Curtain Nets of Cotton in the Piece; Draperies and Drapery Fabrics of Cotton, Wool, Silk, Artificial Silk, Mohair, and Combinations of These Goods in the Piece and Curtains Made Therefrom, and Upholstery Fabrics of Cotton, Wool, Silk, Artificial Silk, Mohair, and Combinations of These Goods in the Piece.
Claims use since May 25, 1922.

Ser. No. 165,263. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN H. BONN, doing business as The J. H. B. Company, Sioux Falls, S. Dak. Filed June 10, 1922.



The descriptive language appearing on the drawing is not claimed as part of the trade-mark sought to be registered and is hereby disclaimed.

Particular description of goods.—Liquid and Paste Soaps and Cleaners.
Claims use since May 1, 1922.

Ser. No. 165,361. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC SPECIALTY CO., Stamford, Conn. Filed June 12, 1922.

ESCO

Particular description of goods.—Electric Motors, Generators, Dynamotors, and Motor Generators.
Claims use since about 1913.

Ser. No. 165,432. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE VIBRALARM MFG. COMPANY, Kansas City, Mo. Filed June 12, 1922.

VIBRALARM

Particular description of goods.—Electrically-Operated Automobile Theft Alarms.
Claims use since Apr. 15, 1922.

Ser. No. 165,498. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CECILIA HARDMANN, San Francisco, Calif. Filed June 14, 1922.

CUBE-IST FOUR TELLERS

Particular description of goods.—Dice.
Claims use since May 23, 1922.

Ser. No. 165,515. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) WARWICK KNITTING MILLS, INC., New York and Brooklyn, N. Y. Filed June 14, 1922.

Nov-L-Knit

Particular description of goods.—Knitted Fabrics of Silk and Wool in the Piece and Knitted Fabrics of Wool in the Piece.
Claims use since April, 1921.

Ser. No. 165,537. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ELECTRIC MACHINE CORPORATION, Indianapolis, Ind. Filed June 15, 1922.

ELMCO

Particular description of goods.—Radio Receiving Sets and Parts Thereof.
Claims use since Apr. 25, 1922.

Ser. No. 165,556. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EDWARD G. MESSING, doing business as Sho-Form Company, Buffalo, N. Y. Filed June 15, 1922.



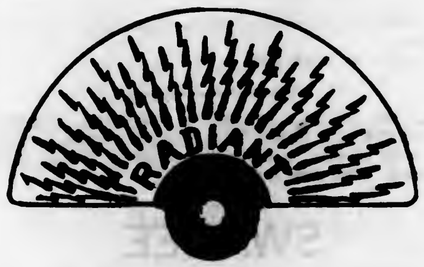
Particular description of goods.—Animal Soft Soap.
Claims use since 1916.

Ser. No. 165,614. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) B & C RADIO MANUFACTURING COMPANY, Boston, Mass. Filed June 17, 1922.



Particular description of goods.—Radio Telegraph and Radio Telephone Receiving Apparatus.
Claims use since about May 27, 1922.

Ser. No. 165,627. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HEATH RADIO AND ELECTRIC MFG. CO., Newark, N. J. Filed June 17, 1922.



Particular description of goods.—Radio Apparatus—Namely, Couplers and Jacks or Combinations Thereof.
Claims use since June 1, 1922.

Ser. No. 165,736. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE WAGNER MANUFACTURING COMPANY, Sidney, Ohio. Filed June 19, 1922.

"Puritan"

Particular description of goods.—Teakettles.
Claims use since May 1, 1922.

Ser. No. 165,758. (CLASS 37. PAPER AND STATIONERY.) JOHN O. PETERSON, Tacoma, Wash. Filed June 20, 1922.



PENOVAL

Trade-mark consists of a design depicting in outline a pen in horizontal position with the point toward the left said pen drawn across and through a double oval, the double oval inclining slightly to the right. No claim attaches to the words "Trade-Mark," which appear immediately below the pen with the word "Trade" on the left side and "Mark" on right side of the oval, all of which appears immediately above the coined word "Penoval" drawn in outline, with the "O" composed of two perfect circles. The trade-mark is impressed on the paper as a watermark and is used as an imprint in advertising and identifying school stationery.
Particular description of goods.—Writing Paper.
Claims use since May 1, 1921.

Ser. No. 165,820. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FRED C. RING, doing business as The Ring Manufacturing Company, Kalamazoo, Mich. Filed June 21, 1922.

Flash Plug

No claim is made to the word "Plug" apart from the mark as shown.
Particular description of goods.—Spark Plugs.
Claims use since Mar. 31, 1922.

Ser. No. 165,822. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO PRODUCTS CORPORATION, Detroit, Mich. Filed June 21, 1922.

"NO AERIAL"
RAD-O-PLUG

The words "No Aerial" are hereby disclaimed apart from the mark as shown.
Particular description of goods.—Plug and Condenser Adapted for Attachment to an Electric Wiring System in Order to Use Said System as Antenna for a Radio Receiving Set.
Claims use since Apr. 27, 1922.

Ser. No. 165,853. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) DEPENDABLE PICTURES CORPORATION, New York, N. Y. Filed June 22, 1922.



No claim is made to the word "Pictures" apart from the mark shown on drawing.
Particular description of goods.—Motion Pictures.
Claims use since June 1, 1922.

Ser. No. 165,929. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 23, 1922.

SPIDER

Particular description of goods.—A Silk and Cotton Mixed Piece Goods.
Claims use since April, 1909.

Ser. No. 165,957. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HANKSCRAFT COMPANY, Madison, Wis. Filed June 23, 1922.

HANKSCRAFT

Particular description of goods.—Electric Milk Warmers, Electric Egg Cookers, Electric Switches, and Electric Heaters for Fireless Cookers.
Claims use since approximately Jan. 1, 1914.

Ser. No. 165,979. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BRIGGS & STRATTON COMPANY, Milwaukee, Wis. Filed June 24, 1922.

BASCO

Particular description of goods.—Radio Apparatus—Namely, Detectors, Tuners, Receivers, Amplifiers, Rheostats, Condensers, Audion-Tube Sockets, Variable Air Condensers, Grid Condensers and Leaks, Telephone Condensers, Telephone Head Sets, Crystal Mountings, Varicouplers, Transformers, Ticklers, Binder Posts, Switches, and Switch Parts.
Claims use since June, 1922.

Ser. No. 165,980. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BRIGGS & STRATTON COMPANY, Milwaukee, Wis. Filed June 24, 1922.

BASCo

Particular description of goods.—Automatic Electric Horns or Warning Signals.
Claims use since March, 1922.

Ser. No. 166,050. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ELECTRIFIED WATER & MACHINE COMPANY, Dallas, Tex. Filed June 26, 1922.

Electrified

Particular description of goods.—Ginger Ale.
Claims use since Jan. 1, 1922.

Ser. No. 166,096. (CLASS 45. BEVERAGES, NONALCOHOLIC.) REID, MURDOCH & Co., Chicago, Ill. Filed June 26, 1922.

FARM HOUSE

Portions of trade-mark colored red and blue.
Particular description of goods.—Ginger Ale and Root Beer.
Claims use since 1900.

Ser. No. 166,097. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) REID, MURDOCH & Co., Chicago, Ill. Filed June 26, 1922.

FARM HOUSE

Particular description of goods.—Soaps and Scouring Powder Designated Cleaner.
Claims use since about August, 1900.

Ser. No. 166,139. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLMAC, INC., New York, N. Y. Filed June 27, 1922.

HOLMAC
0—0

Particular description of goods.—Golf Balls.
Claims use since Apr. 1, 1922.

Ser. No. 166,221. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DYKEMAN, NEILL & LOEB, Philadelphia, Pa. Filed June 29, 1922.

Permette Finish

No exclusive right being claimed to the use of the word "Finish."
Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 15, 1922.

Ser. No. 166,534. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PUFFER-HUBBARD MANUFACTURING COMPANY, Minneapolis, Minn. Filed July 6, 1922.

Town and Country

Particular description of goods.—Child's Toy Wagon.
Claims use since Oct. 1, 1921.

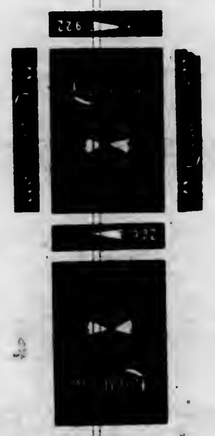
Ser. No. 166,822. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT, HEANEY & Co. INC., New York, N. Y. Filed July 13, 1922.

FALL RIVER



No claim is made to the words "Fall River" apart from the mark shown.
Particular description of goods.—Printed Shirtings and Printed Percales.
Claims use since 1912.

Ser. No. 166,846. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE NEW YORK CONSOLIDATED CARD CO., Long Island City, N. Y. Filed July 13, 1922.



No claim is made to the right to the exclusive use of the words "Trade-Mark, Playing Cards, Made in U. S. A." The lines shown in drawing do not indicate color, but are used for shading purposes only.
Particular description of goods.—Playing Cards.
Claims use since June 27, 1922.

Ser. No. 166,908. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CHARLES WM. SCHULZE, doing business as Redfield Carbonating Company, Redfield, S. Dak. Filed July 14, 1922.

Crystal Rock

Particular description of goods.—Ginger Ale.
Claims use since Jan. 1, 1919.

Ser. No. 167,012. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE ROUSS SYRUP MANUFACTURING CORP., also doing business as White Top Distributing Co., New York, N. Y. Filed July 17, 1922.

WHITE TOP

Particular description of goods.—Ginger Ale and a Nonalcoholic Maltless Grape and Apple Drink.
Claims use since June 1, 1920.

Ser. No. 167,110. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHICAGO NIPPLE MFG. CO. OF CALIFORNIA, Los Angeles, Calif. Filed July 20, 1922.

Air-tites

Particular description of goods.—Tire Valves.
Claims use since Apr. 1, 1922.

Ser. No. 167,133. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JULIUS KING OPTICAL CO., New York, N. Y. Filed July 20, 1922.

Kinglbilt

Particular description of goods.—Goggles and Eye Protectors.
Claims use since about Mar. 1, 1922.

Ser. No. 167,266. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE PHON-O-GAME CO., Elizabeth, N. J. Filed July 22, 1922.

Phonogame

Particular description of goods.—Parlor Game Used in Conjunction with a Phonograph.
Claims use since about June 15, 1922.

Ser. No. 167,425. (CLASS 37. PAPER AND STATIONERY.) SCHWANHÄUSSER LATE GROSSBERGER & KURZ, doing business as Schwan-Bleistift-Fabrik, (Swan Pencil Company,) Nuremberg, Germany. Filed July 26, 1922.

"Ultimo"

Particular description of goods.—Lead Pencils, Colored-Lead Pencils, Copying Pencils, Slate Pencils, Mechanical Lead Pencils, and Crayons.
Claims use since July 8, 1909.

Ser. No. 167,426. (CLASS 37. PAPER AND STATIONERY.) SCHWANHÄUSSER LATE GROSSBERGER & KURZ, doing business as Schwan-Bleistift-Fabrik, (Swan Pencil Company,) Nuremberg, Germany. Filed July 26, 1922.

"Notabene"

Particular description of goods.—Lead Pencils, Colored-Lead Pencils, Copying Pencils, Slate Pencils, Mechanical Lead Pencils, and Crayons.
Claims use since Mar. 12, 1908.

Ser. No. 167,475. (CLASS 37. PAPER AND STATIONERY.) LIBERTY PAPER CO., New York, N. Y. Filed July 27, 1922.



Particular description of goods.—Sealing Tape.
Claims use since May 24, 1922.

Ser. No. 167,498. (CLASS 37. PAPER AND STATIONERY.) SCHWANHÄUSSER LATE GROSSBERGER & KURZ, doing business as Schwan-Bleistift-Fabrik, (Swan Pencil Company,) Nuremberg, Germany. Filed July 27, 1922.

"ProMemoria"

Particular description of goods.—Lead Pencils, Colored-Lead Pencils, Copying Pencils, Slate Pencils, Mechanical Lead Pencils, and Crayons.
Claims use since June 22, 1909.

Ser. No. 168,154. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed Aug. 12, 1922.

BONNY-BRYAR

Particular description of goods.—Silk in the Piece.
Claims use since July 15, 1922.

Ser. No. 168,155. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed Aug. 12, 1922.

GloWorm

Particular description of goods.—Silk in the Piece.
Claims use since July 20, 1922.

Ser. No. 168,156. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed Aug. 12, 1922.

PEEP-O-DAWN

Particular description of goods.—Silk in the Piece.
Claims use since July 15, 1922.

Ser. No. 168,157. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed Aug. 12, 1922.

SKY LARK

Particular description of goods.—Silk in the Piece.
Claims use since July 15, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 26, 1922.

159,245. SHOCK PNEUMATIC TOOLS AND HAND TOOLS MADE OF STEEL COMPRISING RIVET SETS, PISTONS FOR PNEUMATIC HAMMERS, BUSHINGS, PUNCHES, AND CHISELS. A. O. J. TOOL COMPANY, Coldwater, Mich.
Filed December 20, 1921. Serial No. 156,945. PUBLISHED JULY 4, 1922.

159,246. WALL-PAPER CLEANER. THE ABSORENE MANUFACTURING COMPANY, St. Louis, Mo.
Filed February 23, 1922. Serial No. 159,680. PUBLISHED JUNE 6, 1922.

159,247. OIL VALVES. ACKSWELL MFG. & SALES CO. INC., Northport, N. Y.
Filed April 2, 1921. Serial No. 145,601. PUBLISHED JULY 4, 1922.

159,248. SCISSORS AND SHEARS. THE ACME SHEAR COMPANY, Bridgeport, Conn.
Filed December 13, 1921. Serial No. 156,617. PUBLISHED JUNE 13, 1922.

159,249. ADVERTISING LETTER FOLDERS. THE ADVERTISER'S ART STUDIOS INC., Washington, D. C.
Filed April 29, 1922. Serial No. 163,072. PUBLISHED JULY 4, 1922.

159,250. STAIR TREADS AND FLOOR PLATES. AMERICAN ABRASIVE METALS COMPANY, New York, N. Y.
Filed January 31, 1922. Serial No. 158,666. PUBLISHED JUNE 6, 1922.

159,251. WHEAT FLOUR. AMERICAN FINANCE & COMMERCE COMPANY, San Francisco, Calif.
Filed May 24, 1921. Serial No. 148,108. PUBLISHED DECEMBER 27, 1921.

159,252. WHEAT FLOUR. AMERICAN HOMINY COMPANY, Indianapolis, Ind.
Filed July 19, 1921. Serial No. 150,583. PUBLISHED FEBRUARY 14, 1922.

159,253. WEEKLY PERIODICAL PUBLICATIONS. THE AMERICAN LUMBERMAN, Chicago, Ill.
Filed January 20, 1922. Serial No. 158,172. PUBLISHED MAY 30, 1922.

159,254. CERTAIN STEEL PRODUCTS. THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, trading as American Steel & Wire Company, Cleveland, Ohio.
Filed December 1, 1921. Serial No. 156,134. PUBLISHED JUNE 27, 1922.

159,255. WRITING AND PRINTING PAPERS. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed December 30, 1921. Serial No. 157,296. PUBLISHED JULY 4, 1922.

159,256. WRITING AND PRINTING PAPERS. AMERICAN WRITING PAPER COMPANY, Holyoke, Mass.
Filed December 30, 1921. Serial No. 157,294. PUBLISHED JULY 4, 1922.

159,257. AIR-CURRENT DRYING APPARATUS FOR MANUFACTURING AND INDUSTRIAL OPERATIONS. ANDREWS & GOODRICH, INC., Boston, Mass.
Filed November 21, 1921. Serial No. 155,665. PUBLISHED JUNE 13, 1922.

159,258. MALTLESS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. KAI ANTONSEN, Chicago, Ill.
Filed March 11, 1922. Serial No. 160,528. PUBLISHED JULY 4, 1922.

159,259. BLEACHED AND UNBLEACHED SULPHITE PAPER. WILLIAM A. ARMSTRONG, doing business as W. A. Armstrong Paper Co., New York, N. Y.
Filed April 15, 1922. Serial No. 162,370. PUBLISHED JUNE 20, 1922.

159,260. DRY-POWDER PAINT, COLD-WATER PAINT, AND POWDER WITHOUT PIGMENT FOR MAKING PAINT. ASBESTOMINE COMPANY, Wenatchee, Wash.
Filed May 17, 1919. Serial No. 118,580. PUBLISHED JUNE 15, 1920.

159,261. COTTON-SEED MEAL. ASHCRAFT-WILKINSON COMPANY, Atlanta, Ga.
Filed June 25, 1921. Serial No. 149,618. PUBLISHED FEBRUARY 14, 1922.

159,262. A FIBER-BOARD FRAME USED IN DISPLAYING X-RAY PHOTOGRAPHS OF TEETH. ASSOCIATED RADIOGRAPH LABORATORIES, San Francisco, Calif.
Filed March 25, 1922. Serial No. 161,220. PUBLISHED JUNE 6, 1922.

159,263. RICE. ASSOCIATED RICE MILLERS OF AMERICA, INC., New Orleans, La.
Filed August 25, 1921. Serial No. 152,157. PUBLISHED FEBRUARY 28, 1922.

159,264. WELDING BARS AND RODS. THE ATLAS FOUNDRY COMPANY, Cleveland, Ohio.
Filed March 7, 1922. Serial No. 160,273. PUBLISHED JUNE 27, 1922.

159,265. REEL MILLS. THE ATWOOD MACHINE COMPANY, Stonington, Conn.
Filed January 28, 1922. Serial No. 158,558. PUBLISHED JULY 4, 1922.

159,266. WINDING FRAMES. THE ATWOOD MACHINE COMPANY, Stonington, Conn.
Filed January 28, 1922. Serial No. 158,556. PUBLISHED JULY 4, 1922.

159,267. STOCK AND POULTRY FEED. AVISTON FLOUR COMPANY INC., Jackson, Miss.
Filed August 9, 1921. Serial No. 151,571. PUBLISHED FEBRUARY 7, 1922.

159,268. SANDWICHES AND PASTRY. B/G SANDWICH SHOPS, Kansas City, Mo.
Filed September 12, 1921. Serial No. 152,868. PUBLISHED JUNE 27, 1922.

159,269. CERTAIN NAMED FOOD PRODUCTS. BAKE-RITE OVEN MFG. CO., Reno, Nev., and San Francisco, Calif.
Filed March 27, 1919. Serial No. 116,948. PUBLISHED JANUARY 24, 1922.

159,270. CANNED FRUITS, CANNED BERRIES, AND CANNED VEGETABLES. H. A. BAKER, INC., Sumner, Wash.
Filed February 1, 1921. Serial No. 143,034. PUBLISHED NOVEMBER 1, 1921.

159,271. CERTAIN FIXTURES OF PORCELAIN FOR BATHROOMS. STEPHEN D. BAKER, doing business as S. D. Baker Manufacturing Company, New York, N. Y.
Filed November 23, 1921. Serial No. 155,798. PUBLISHED JUNE 27, 1922.

159,272. SOAPS. BAMACEA COMPANY, INC., Boston, Mass.
Filed February 15, 1922. Serial No. 159,338. PUBLISHED JUNE 6, 1922.

159,273. OPHTHALMIC LENSES. BAUSCH & LOMB OPTICAL CO., Rochester, N. Y.
Filed January 21, 1922. Serial No. 158,220. PUBLISHED JUNE 27, 1922.

159,274. HAMS, BACONS, BUTTER, EGGS, AND SAUSAGE. BECKER PROVISION CO., Little Rock, Ark.
Filed August 2, 1921. Serial No. 151,252. PUBLISHED FEBRUARY 7, 1922.

159,275. COOKIES, CRACKERS, CAKES, AND BISCUITS. G. H. BENT COMPANY, Milton, Mass.
Filed June 13, 1921. Serial No. 149,054. PUBLISHED DECEMBER 27, 1921.

159,276. LIQUID-INDICATING GAUGES. BERGE-RATHBUN CO., Boston, Mass.
Filed January 17, 1922. Serial No. 158,034. PUBLISHED JUNE 27, 1922.

159,277. WHEAT FLOUR. BERNET, CRAFT & KAUFFMAN MILLING CO., St. Louis, Mo.
Filed May 28, 1921. Serial No. 148,366. PUBLISHED JANUARY 10, 1922.

159,278. VITAMIN COMPOUND FOR GENERAL TONIC USE. GRANT BEST, Detroit, Mich.
Filed August 1, 1921. Serial No. 151,201. PUBLISHED NOVEMBER 29, 1921.

159,279. CANNED FRUITS, CANNED VEGETABLES, OLIVES, NUTS IN THEIR NATURAL STATE, HONEY, JELLY, FRUIT PRESERVES, MARMALADE, AND WHOLE SPICED FIGS. BETTY JEANE, INCORPORATED, Los Altos, Calif.
Filed December 7, 1921. Serial No. 156,352. PUBLISHED JULY 4, 1922.

159,280. DAILY BULLETIN OR NEWS SHEET OF THE PRICES OF METALS. BIGELOW, BOWDITCH & COMPANY, Boston, Mass.
Filed November 25, 1921. Serial No. 155,853. PUBLISHED MAY 30, 1922.

159,281. WRITING, PRINTING, DRAWING AND PENCIL PAPER; CORRESPONDENCE ENVELOPES; WRITING, PENCIL, DRAWING AND SPELLING TABLETS, AND BLANK BOOKS. J. C. BLAIR COMPANY, Huntingdon, Pa.
Filed March 8, 1922. Serial No. 160,333. PUBLISHED JUNE 13, 1922.

159,282. JELLIES, FRUIT PRESERVES, APPLE BUTTER, AND FLAVORING EXTRACTS. BLANKE-BAER EXTRACT & PRESERVING COMPANY, St. Louis, Mo.
Filed December 21, 1921. Serial No. 157,012. PUBLISHED JUNE 27, 1922.

159,283. CANDY. VAL. BLATZ JR. CANDY CO., Milwaukee, Wis.
Filed December 12, 1921. Serial No. 156,566. PUBLISHED JUNE 20, 1922.

159,284. MEATS, HASH, SOUP, BOUILLI, BREAD, VEGETABLES. BOSTON FOOD PRODUCTS CO., East Boston, Mass.
Filed April 23, 1920. Serial No. 131,517. PUBLISHED DECEMBER 27, 1921.

159,285. PULLEYS OR BLOCKS. BOSTON & LOCKPORT BLOCK COMPANY, Boston, Mass.
Filed September 1, 1921. Serial No. 152,459. PUBLISHED JULY 4, 1922.

159,286. PULLEYS OR BLOCKS. BOSTON & LOCKPORT BLOCK COMPANY, Boston, Mass.
Filed September 1, 1921. Serial No. 152,460. PUBLISHED JULY 4, 1922.

159,287. PRINTED BOOKS PRINTED FROM TIME TO TIME. CLIFFORD NORMAN BOURNE, Syracuse, N. Y.
Filed October 1, 1921. Serial No. 153,579. PUBLISHED MAY 30, 1922.

159,288. DISPENSERS, AND MEASURING PUMPS AND METERS, FOR LIQUID FUELS AND LUBRICANTS. S. F. BOWSER & COMPANY, INC., Fort Wayne, Ind.
Filed March 24, 1922. Serial No. 161,165. PUBLISHED JULY 4, 1922.

159,289. BRASS PIPE. BRIDGEPORT BRASS COMPANY, Bridgeport, Conn.
Filed February 9, 1922. Serial No. 159,074. PUBLISHED JUNE 6, 1922.

159,290. POULTRY FEED. THE BROOKS COMPANY, Fort Scott, Kans.
Filed May 2, 1921. Serial No. 147,084. PUBLISHED JANUARY 10, 1922.

159,291. KRAFT, WRAPPING, BOND AND PRINT PAPER, PAPER TOWELING, CREPE PAPER, AND PAPER FOR TOILET PURPOSES. BROWN COMPANY, Portland, Me.
Filed June 2, 1920. Serial No. 133,181. PUBLISHED JUNE 20, 1922.

159,292. BLOTTERS, PENCILS, AND MEMORANDUM PADS. BROWN & BIGELOW, St. Paul, Minn.
Filed March 16, 1922. Serial No. 160,742. PUBLISHED JUNE 13, 1922.

159,293. POULTRY FEED. THE BUCKEYE COTTON OIL COMPANY, Cincinnati, Ohio.
Filed June 27, 1921. Serial No. 149,681. PUBLISHED JANUARY 24, 1922.

159,294. GLASS PAPER WEIGHTS SHAPED TO FORM OPTICAL LENSES. BUFFALO OPTICAL COMPANY, INC., Buffalo, N. Y.
Filed April 14, 1922. Serial No. 162,282. PUBLISHED JULY 4, 1922.

159,295. OLIVE OIL. GEORGE J. BULUBASSIS, New York, N. Y.
Filed November 5, 1921. Serial No. 155,043. PUBLISHED JUNE 27, 1922.

159,296. CANDY. BUNTE BROTHERS, Chicago, Ill.
Filed June 27, 1921. Serial No. 149,675. PUBLISHED OCTOBER 25, 1921.

159,297. REFRIGERATING APPARATUS, INCLUDING COMPRESSOR, CONDENSER, OIL-TRAP, AND MISCELLANEOUS PIPING. EASTMAN A. BURROWS, Chicago, Ill.
Filed December 19, 1921. Serial No. 156,877. PUBLISHED JUNE 27, 1922.

159,298. WRITING PAPER. BYRON WESTON COMPANY, Dalton, Mass.
Filed December 10, 1921. Serial No. 156,558. PUBLISHED JUNE 6, 1922.

159,299. STRAWBOARD, BOX BOARD, BINDER'S BOARD, FIBER BOARD, BACKING BOARD, PLAIN CHIP BOARD, PASTED CONTAINER BOARD, PASTED STRAWBOARD, AND PARTICULARLY PASTED CHIP BOARD. THE C. L. LA BOITEAUX COMPANY, Cincinnati, Ohio.
Filed February 14, 1921. Serial No. 143,544. PUBLISHED JULY 4, 1922.

159,300. ALMONDS AND ALMOND MEATS AND CERTAIN NAMED ALMOND FOOD PRODUCTS. CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif.
Filed June 1, 1920. Serial No. 133,132. PUBLISHED OCTOBER 12, 1920.

159,301. ALMONDS AND ALMOND MEATS AND CERTAIN NAMED ALMOND FOOD PRODUCTS. CALIFORNIA ALMOND GROWERS EXCHANGE, San Francisco, Calif.
Filed June 1, 1920. Serial No. 133,133. PUBLISHED OCTOBER 12, 1920.

159,302. MARINE AND STATIONARY INTERNAL-COMBUSTION MOTORS AND CARBURETORS. CAMDEN ANCHOR-ROCKLAND MACHINE CO., Camden, Me.
Filed February 18, 1921. Serial No. 143,743. PUBLISHED JULY 4, 1922.

159,303. CAKE. CAMPBELL BAKING COMPANY, Kansas City, Mo.
Filed March 17, 1921. Serial No. 144,847. PUBLISHED DECEMBER 27, 1921.

159,304. HANDMADE PAPER. CAMILLE H. BOULIN, doing business as Canson & Montgolfier, New York, N. Y.
Filed February 25, 1922. Serial No. 159,787. PUBLISHED JUNE 20, 1922.

159,305. WHEAT BREAD. CAPSHEAF BREAD CO., St. Louis, Mo.
Filed September 2, 1920. Serial No. 136,739. PUBLISHED FEBRUARY 7, 1922.

159,306. FRESH VEGETABLES. CARLSBAD VEGETABLE GROWERS ASSOCIATION, Carlsbad, Calif.
Filed January 23, 1922. Serial No. 158,292. PUBLISHED JULY 4, 1922.

159,307. OIL GAUGES. CARTER MOTOR ACCESSORIES, INC., Buffalo, N. Y.
Filed April 6, 1922. Serial No. 161,819. PUBLISHED JULY 4, 1922.

159,308. SOAP PASTE. KNOWN AS "CEDAL SAWDUST CLEANSER." CEDAL SAWDUST CLEANSER COMPANY, Wilmington, Calif.
Filed December 17, 1919. Serial No. 126,182. PUBLISHED MAY 16, 1922.

159,309. GUMMED PAPER. CENTRAL PAPER COMPANY, Menasha, Wis.
Filed July 30, 1921. Serial No. 151,147. PUBLISHED JUNE 20, 1922.

159,310. PERFUMES, TOILET WATERS, FACE POWDERS, TOILET POWDERS, SACHETS, ROUGES, BRILLIANTINE, AND FACE CREAM. CHERAMY, INC., New York, N. Y.
Filed February 18, 1922. Serial No. 159,499. PUBLISHED JULY 4, 1922.

159,311. SWITCHES AND SWITCH STANDS. THE CINCINNATI FROG AND SWITCH CO., Cincinnati, Ohio.
Filed August 15, 1921. Serial No. 151,785. PUBLISHED JUNE 6, 1922.

159,312. RAILROAD FROGS, CROSSINGS, RAIL BRACES, AND GUARD RAILS. CINCINNATI FROG & SWITCH CO., Cincinnati, Ohio.
Filed March 18, 1922. Serial No. 160,869. PUBLISHED JUNE 27, 1922.

159,313. CORN MEAL. CITY MILLS COMPANY, Columbus, Ga.
Filed October 23, 1920. Serial No. 138,707. PUBLISHED FEBRUARY 7, 1922.

159,314. PHARMACEUTICAL PREPARATIONS FOR CERTAIN NAMED PURPOSES. H. P. CLEARWATER, Hallowell, Me.
Filed April 2, 1921. Serial No. 145,611. PUBLISHED JULY 12, 1921.

159,315. CERTAIN CUTLERY AND TOOLS. THE COLLINS COMPANY, Collinsville, Conn.
Filed December 16, 1921. Serial No. 156,778. PUBLISHED JULY 4, 1922.

159,316. WHEAT FLOUR. COLONIAL EXPORT & IMPORT COMPANY, New York, N. Y.
Filed December 6, 1920. Serial No. 140,636. PUBLISHED FEBRUARY 14, 1922.

159,317. CERTAIN COOKING AND HOUSEHOLD ARTICLES OF ENAMELED STEEL. COLUMBIAN ENAMELING & STAMPING CO., Terre Haute, Ind.
Filed December 30, 1921. Serial No. 157,302. PUBLISHED JUNE 6, 1922.

159,318. GLASS. CORNING GLASS WORKS, Corning, N. Y.
Filed November 19, 1919. Serial No. 125,077. PUBLISHED APRIL 6, 1920.

159,319. MINT CANDY AND MINT TABLETS. CREMINT CO., New York, N. Y.
Filed January 6, 1922. Serial No. 157,554. PUBLISHED JUNE 27, 1922.

159,320. UNSWEETENED EVAPORATED MILK. THE CRESCENT COMPANY, Tarr, Pa.
Filed January 14, 1922. Serial No. 157,914. PUBLISHED JULY 4, 1922.

159,321. TOILET SOAPS. CROFTS & REED CO., Chicago, Ill.
Filed March 3, 1922. Serial No. 160,114. PUBLISHED JULY 4, 1922.

159,322. CERTAIN NAMED MEDICINAL AND PHARMACEUTICAL PREPARATIONS. HAROLD CROOKS, doing business as Verso-Tone Medicine Co., Terre Haute, Ind.
Filed December 2, 1921. Serial No. 156,187. PUBLISHED JUNE 13, 1922.

159,323. LUBRICATING OILS. CRESCENT OIL COMPANY, Indianapolis, Ind.
Filed February 18, 1920. Serial No. 128,545. PUBLISHED JUNE 27, 1922.

159,324. CERTAIN NAMED FOOD PRODUCTS. BARUCH CERF, Milwaukee, Wis., and Chicago, Ill.
Filed September 15, 1920. Serial No. 137,211. PUBLISHED FEBRUARY 14, 1922.

159,325. WEEKLY PUBLICATION. DEARBORN PUBLISHING COMPANY, Dearborn, Mich.
Filed December 23, 1921. Serial No. 157,061. PUBLISHED MAY 30, 1922.

159,326. CALENDARS. DEFIANCE MANUFACTURING COMPANY, New York, N. Y.
Filed January 21, 1922. Serial No. 158,227. PUBLISHED MAY 30, 1922.

159,327. CONFECTIONERS' COCONUT BUTTER. L. DEMARTINI SUPPLY CO., San Francisco, Calif.
Filed November 22, 1920. Serial No. 139,960. PUBLISHED JANUARY 31, 1922.

159,328. CARBON BLACK. GEORGE W. DE SMET, Chicago, Ill.
Filed January 30, 1922. Serial No. 158,607. PUBLISHED JUNE 27, 1922.

159,329. SUPPORT FOR FOUNTAIN PENS. LAWRENCE KIBLER DESMOND, doing business as L. K. Desmond, Corry, Pa.
Filed October 8, 1921. Serial No. 153,873. PUBLISHED JUNE 20, 1922.

159,330. HAIRBRUSHES, CLOTHESBRUSHES, AND SHOE BRUSHES. DIACK BROS., Troy, N. Y.
Filed March 1, 1922. Serial No. 160,001. PUBLISHED JULY 4, 1922.

159,331. OLIVE OIL. EMILIO DI BIANCO, New York, N. Y.
Filed January 9, 1922. Serial No. 157,660. PUBLISHED JUNE 27, 1922.

159,332. MONTHLY PERIODICAL. DIXON & HILLEN, Oakland, Calif.
Filed February 13, 1922. Serial No. 159,248. PUBLISHED MAY 23, 1922.

159,333. STAMPED STEEL PULLEYS OF VARIOUS DIAMETERS AND WIDTHS FOR POWER-TRANSMISSION PURPOSES AS COMPLETE UNITS, ETC. DODGE SALES & ENGINEERING CO., Mishawaka, Ind.
Filed October 10, 1919. Serial No. 123,631. PUBLISHED JULY 4, 1922.

159,334. NONFERROUS METAL CASTINGS. DOEHLER DIE-CASTING COMPANY, Brooklyn, N. Y.
Filed February 25, 1921. Serial No. 144,019. PUBLISHED JUNE 27, 1922.

159,335. NONFERROUS METAL CASTINGS. DOEHLER DIE-CASTING COMPANY, Brooklyn, N. Y.
Filed February 25, 1921. Serial No. 144,020. PUBLISHED JUNE 27, 1922.

159,336. PRINTED PRODUCTS—NAMELY, JOURNALS, MUSIC, INSIGNIA, AND LETTERS. DREI MASKEN VERLAG A.-G., Munich, Germany.
Filed December 1, 1921. Serial No. 156,152. PUBLISHED MAY 30, 1922.

159,337. APPARATUS FOR COPYING DRAWINGS AND THE LIKE, COMPRISING A DRAWING BOARD HAVING A TRACING AND SCRIBING ARM MOUNTED THEREON. DREYER & BUTZ, Newark, N. J.
Filed December 29, 1921. Serial No. 157,261. PUBLISHED JUNE 27, 1922.

159,338. SELF-RISING FLOUR. DULLE-MEYER MILLING COMPANY, Chamois, Mo.
Filed August 15, 1921. Serial No. 151,788. PUBLISHED FEBRUARY 7, 1922.

159,339. GAS AND OIL WATER HEATERS, GAS AND OIL LANTERNS, COAL AND WOOD STOVES, AND GAS AND OIL RANGES. JOHN DUNN, SON & CO., New York, N. Y.
Filed December 10, 1920. Serial No. 140,875. PUBLISHED DECEMBER 27, 1921.

159,340. BROAD SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed December 21, 1921. Serial No. 156,984. PUBLISHED JUNE 20, 1922.

159,341. BROAD SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed December 21, 1921. Serial No. 156,985. PUBLISHED JUNE 20, 1922.

159,342. LOCKS, NIGHT LATCHES, AND PADLOCKS. EAGLE LOCK CO., Terryville, Conn.
Filed February 15, 1922. Serial No. 159,353. PUBLISHED JUNE 27, 1922.

159,343. CERTAIN COOKING AND HOUSEHOLD UTENSILS OF ALUMINUM. EASTERN ALUMINUM COMPANY, Boston, Mass.
Filed June 30, 1921. Serial No. 149,850. PUBLISHED JUNE 6, 1922.

159,344. METALLIC VALVES. ECKENROTH VALVE AND MANUFACTURING CO., Philadelphia, Pa.
Filed March 23, 1922. Serial No. 161,120. PUBLISHED JULY 4, 1922.

159,345. FOUNTAIN PENS, STYLOGRAPHIC PENS AND PENCILS. EGGENS-HAMBLER COMPANY, Elizabeth, N. J., and New York, N. Y.
Filed April 21, 1922. Serial No. 162,672. PUBLISHED JULY 4, 1922.

159,346. PREPARATION FOR CLEANING, SHINING, AND POLISHING SHOES AND ALL LEATHER ARTICLES. EDWARD L. EGGERS, doing business as The Merforol Company, St. Louis, Mo.
Filed January 14, 1922. Serial No. 157,918. PUBLISHED MAY 23, 1922.

159,347. FERROUS AND NONFERROUS METALS AND ALLOYS. ELECTRO METALLURGICAL COMPANY, Glen Ferris, W. Va., and Niagara Falls, N. Y.
Filed February 1, 1922. Serial No. 158,706. PUBLISHED JUNE 20, 1922.

159,348. MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF RHEUMATISM AND ALLIED CONDITIONS. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed February 11, 1922. Serial No. 159,211. PUBLISHED JULY 11, 1922.

159,349. CANDY. C. F. ERB & SON, Fort Thomas, Ky.
Filed January 12, 1922. Serial No. 157,831. PUBLISHED JUNE 27, 1922.

159,350. WHEAT FLOUR. EL RENO MILL & ELEVATOR CO., El Reno, Okla.
Filed October 16, 1920. Serial No. 138,379. PUBLISHED JANUARY 10, 1922.

159,351. CANNED VEGETABLES AND CANNED FRUITS. FILICE & PERRELLI CANNING CO., Gilroy, Calif.
Filed January 23, 1922. Serial No. 158,301. PUBLISHED JULY 4, 1922.

159,352. CREAMERY BUTTER. EMIL FLEISCHL & SON, New York, N. Y.
Filed June 16, 1921. Serial No. 149,221. PUBLISHED JANUARY 10, 1922.

159,353. WRITING PAPER AND LEDGER. FOX RIVER PAPER COMPANY, Appleton, Wis.
Filed March 21, 1922. Serial No. 161,002. PUBLISHED JULY 4, 1922.

159,354. NONFERROUS METAL CASTINGS. FRONTIER BRONZE CORPORATION, Niagara Falls, N. Y.
Filed December 5, 1921. Serial No. 156,272. PUBLISHED JUNE 20, 1922.

159,355. HORSE FEED, CATTLE AND DAIRY FEED, POULTRY FEED, AND HOG FEED. HENRY FRUECHTENICHT, Louisville, Ky.
Filed December 21, 1920. Serial No. 141,364. PUBLISHED JUNE 28, 1921.

159,356. CERTAIN NAMED CHEMICALS AND PHARMACEUTICALS. T. FUJISAWA & COMPANY, New York, N. Y.
Filed May 5, 1921. Serial No. 147,236. PUBLISHED JUNE 27, 1922.

159,357. CAKE, PASTRY, BISCUITS, COOKIES, CRACKERS, AND FRIED BAKERY PRODUCTS—NAMELY, DOUGHNUTS. GENERAL BAKING COMPANY, New York, N. Y.
Filed April 8, 1921. Serial No. 145,893. PUBLISHED FEBRUARY 14, 1922.

159,358. FISHING TACKLE—NAMELY, FISHING SPOONS. GENEVA TACKLE CO., Geneva, N. Y.
Filed May 1, 1922. Serial No. 163,150. PUBLISHED JULY 4, 1922.

159,359. SAFETY RAZORS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed May 4, 1921. Serial No. 147,192. PUBLISHED JULY 4, 1922.

159,360. PAINTS FOR FOUNDATION AND FINISHING COATS. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 2, 1920. Serial No. 129,135. PUBLISHED JUNE 27, 1922.

159,361. HAND-OPERATED COUNTING REGISTERS. CHARLES A. GOODSPEED, doing business as The Remind-O-Meter Company, Highland Park, Mich.
Filed February 11, 1922. Serial No. 159,237. PUBLISHED JULY 4, 1922.

159,362. BUTTER. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J.
Filed September 18, 1920. Serial No. 137,317. PUBLISHED JANUARY 10, 1922.

159,363. ARTISTS' BRUSHES. MAX GRUMBACHER, New York, N. Y.
Filed March 22, 1922. Serial No. 161,085. PUBLISHED JULY 4, 1922.

159,364. BLANK BOOKS, PADS, BINDERS, INDEXES, WRITING, NEWSPRINT, TYPEWRITING, BLOTTING, AND LEDGER PAPER, PENS, PENHOLDERS, PENCILS, AND SHARPENERS, CLIPS, CLAMPS, AND FASTENERS. GUILD PRODUCTS CORPORATION, Philadelphia, Pa.
Filed February 24, 1922. Serial No. 159,752. PUBLISHED JULY 4, 1922.

159,365. SELF-RISING FLOUR. THE HADLEY MILLING COMPANY, Olathe, Kans.
Filed August 15, 1921. Serial No. 151,797. PUBLISHED FEBRUARY 7, 1922.

159,366. OLEOMARGARINE. HAMMOND STANDISH & Co., Detroit, Mich.
Filed December 7, 1920. Serial No. 140,725. PUBLISHED JANUARY 10, 1922.

159,367. BREAD. HANKEY BAKING COMPANY, McKee's Rocks, Pa.
Filed September 30, 1920. Serial No. 137,776. PUBLISHED JANUARY 24, 1922.

159,368. IRON AND STEEL USED FOR LINING PLATES FOR BALL AND PEBBLE MILLS. HARDINGE COMPANY, New York, N. Y.
Filed December 10, 1921. Serial No. 156,527. PUBLISHED JUNE 20, 1922.

159,369. DOLLS. JAMES A. HAYES, New York, N. Y.
Filed March 22, 1922. Serial No. 161,049. PUBLISHED JULY 4, 1922.

159,370. CLEANSER FOR CLEANING CLOTHES, SILVERWARE, DISHES, COOKING UTENSILS, WOODWORK, WINDOWS, AND THE LIKE. HAYS-RADEN COMPANY, Philadelphia, Pa.
Filed February 15, 1922. Serial No. 159,357. PUBLISHED JULY 4, 1922.

159,371. PLUMBING AND STEAM-FITTING SUPPLIES—NAMELY, HOT-WATER EQUALIZERS. HENRY EARL HEIM, Portland, Oreg.
Filed November 26, 1921. Serial No. 155,962. PUBLISHED JUNE 27, 1922.

159,372. CUTLERY—NAMELY, POCKETKNIVES, PENKNIVES, SHEARS, AND SCISSORS. J. A. HENCKELS, New York, N. Y., assignor to Graef & Schmidt, Inc., New York, N. Y., a Corporation of New York.
Filed November 11, 1921. Serial No. 153,980. PUBLISHED JULY 4, 1922.

159,373. STEEL FOR USE IN THE MANUFACTURE OF DIE BLOCKS, SPECIAL TOOL-STEEL FORGINGS, UPSETTER DIES, PUNCHES, AND TOOLS USED FOR HAT WORK. HEPPENSTALL FORGE AND KNIFE COMPANY, Pittsburgh, Pa.
Filed February 9, 1922. Serial No. 159,089. PUBLISHED JUNE 27, 1922.

159,374. OLEOMARGARINE. WALTER J. HAEBERLEIN, Camden, N. J.
Filed December 29, 1920. Serial No. 141,634. PUBLISHED FEBRUARY 14, 1922.

159,375. WOODEN-HEEL FASTENERS FOR SHOES. THE HERCULES WOOD HEEL FASTENER CO., New York and Brooklyn, N. Y.
Filed July 14, 1921. Serial No. 150,359. PUBLISHED JUNE 13, 1922.

159,376. COFFEE. HEWLETT BROS. COMPANY, Salt Lake City, Utah.
Filed June 10, 1921. Serial No. 148,037. PUBLISHED FEBRUARY 21, 1922.

159,377. ROPES AND CORDAGE—NAMELY, SISAL AND MANILA ROPES. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio.
Filed April 22, 1921. Serial No. 146,549. PUBLISHED JULY 4, 1922.

159,378. MONTHLY PERIODICAL. THE HOUSTON PUBLISHING COMPANY, New York, N. Y.
Filed March 25, 1922. Serial No. 161,254. PUBLISHED JUNE 20, 1922.

159,379. PAPER FROM WHICH PATTERNS ARE MADE. CHARLES F. HUBBS & CO., New York, N. Y.
Filed April 7, 1922. Serial No. 161,883. PUBLISHED JUNE 27, 1922.

159,380. WRITING AND PRINTING PAPERS. CHARLES F. HUBBS & CO., New York, N. Y.
Filed April 7, 1922. Serial No. 161,884. PUBLISHED JUNE 27, 1922.

159,381. STOCK AND POULTRY FEED—NAMELY, COTTONSEED MEAL. HUMPHREYS-GODWIN COMPANY, Memphis, Tenn.
Filed August 27, 1920. Serial No. 136,555. PUBLISHED JANUARY 10, 1922.

159,382. LOCKS AND KEYS. INDEPENDENT LOCK & KEY MANUFACTURING CO. INC., Leominster, Mass.
Filed August 17, 1921. Serial No. 151,875. PUBLISHED APRIL 25, 1922.

159,383. MILK PRODUCT CONSISTING OF SKIMMED MILK AND VEGETABLE FAT. INDIANA CONDENSED MILK COMPANY, Indianapolis, Ind.
Filed August 25, 1920. Serial No. 136,472. PUBLISHED NOVEMBER 23, 1920.

159,384. PENCILS. WILLIAM H. INGERSOLL, New York, N. Y.
Filed April 5, 1922. Serial No. 161,780. PUBLISHED JULY 4, 1922.

159,385. MAILING WRAPPERS. INTERNATIONAL MAILING TUBE & WRAPPER CO., New York and Brooklyn, N. Y.
Filed March 1, 1922. Serial No. 160,012. PUBLISHED JUNE 13, 1922.

159,386. METAL CASTINGS. INTERNATIONAL PERMOLD COMPANY, Cleveland, Ohio.
Filed April 24, 1922. Serial No. 162,819. PUBLISHED JUNE 27, 1922.

159,387. CERTAIN NAMED TEXTILE FABRICS. IRISH LINEN SOCIETY, Belfast, Ireland.
Filed December 13, 1921. Serial No. 156,633. PUBLISHED JUNE 6, 1922.

159,388. AUTOMATIC PAPER-FASTENING MACHINES. ALEX H. IRVIN COMPANY, Curwensville, Pa.
Filed March 19, 1921. Serial No. 144,972. PUBLISHED JUNE 13, 1922.

159,389. OLIVE OIL, TOMATO SAUCE, AND MACARONI. THE ITALIAN SUPPLY CO., Lock Haven, Pa.
Filed January 30, 1922. Serial No. 158,617. PUBLISHED JUNE 20, 1922.

159,390. MONTHLY CATALOGUE. JABURG-MILLER CO., INC., New York, N. Y.
Filed February 14, 1922. Serial No. 159,319. PUBLISHED MAY 23, 1922.

159,391. SCIENTIFIC KNITTING-MACHINE LUBRICANT. W. H. & F. JORDAN, JR., MFG. CO., Philadelphia, Pa.
Filed November 16, 1921. Serial No. 155,437. PUBLISHED MARCH 21, 1922.

159,392. CERTAIN NAMED TOILET PREPARATIONS. WILLIAM KAHN, doing business as Kahn's Perfumery, St. Louis, Mo.
Filed February 16, 1922. Serial No. 159,422. PUBLISHED JUNE 27, 1922.

159,393. CERTAIN BEARINGS AND PISTONS, PISTON PINS, WRIST PINS, FAN-PULLEY PINS, GEARS, EXPLOSION ENGINE VALVES, AND MACHINERY BUSHINGS. KANOUSE & FOOTE, Oakland, Calif.
Filed September 6, 1921. Serial No. 152,624. PUBLISHED JUNE 6, 1922.

159,394. WHEAT FLOUR. THE KANSAS CITY MILLING Co., Kansas City, Mo.
Filed July 27, 1921. Serial No. 151,011. PUBLISHED FEBRUARY 7, 1922.

159,395. TOY TELEPHONES. KELLEY & CORWIN, New York, N. Y.
Filed May 6, 1922. Serial No. 163,448. PUBLISHED JULY 4, 1922.

159,396. DETERGENT PREPARATIONS — NAMELY, SOAP PRODUCTS. KENDALL PRODUCTS CORPORATION, New York, N. Y.
Filed February 7, 1922. Serial No. 158,986. PUBLISHED JULY 4, 1922.

159,397. LAYING MASH, STARTING FOOD, GROWING FOOD, HATCHING EGGS, AND BABY CHICKENS. ARTHUR E. KERLIN, Center Hall, Pa.
Filed October 24, 1921. Serial No. 154,519. PUBLISHED JUNE 27, 1922.

159,398. WIRE FENCING AND BARB WIRE. KEYSTONE STEEL & WIRE COMPANY, Peoria, Ill.
Filed January 16, 1922. Serial No. 157,997. PUBLISHED JUNE 6, 1922.

159,399. HOOK CORNERS FOR HANGING PICTURES, PASSEPARTOUTS, CARDS, AND THE LIKE. ROYDEN C. KIRK, doing business as Klever Kraft Company, Waltham, Mass.
Filed December 10, 1921. Serial No. 156,534. PUBLISHED JUNE 6, 1922.

159,400. CORN GRITS, CORN FLAKES, BARLEY, AND MALT. KLATSCHER & LORENZ, INC., New York, N. Y.
Filed July 14, 1920. Serial No. 134,964. PUBLISHED JANUARY 31, 1922.

159,401. ALL KINDS OF FRESH FRUITS AND VEGETABLES, HAY, CORN, AND WHEAT. EDWIN W. KNAPP, New York, N. Y.
Filed October 2, 1920. Serial No. 137,842. PUBLISHED FEBRUARY 7, 1922.

159,402. ALL KINDS OF FRESH FRUITS AND VEGETABLES, HAY, CORN, AND WHEAT. EDWIN W. KNAPP, New York, N. Y.
Filed October 2, 1920. Serial No. 137,841. PUBLISHED FEBRUARY 7, 1922.

159,403. CASES AND BAGS MADE OF LEATHER, FIBER, OR OTHER SUITABLE MATERIALS, AND WHICH ARE TO BE USED FOR HOLDING FISHING MATERIAL. KNICKERBOCKER CASE COMPANY, Chicago, Ill.
Filed September 26, 1921. Serial No. 153,356. PUBLISHED JULY 4, 1922.

159,404. BLANK ACCOUNT BOOKS. FRED A. KOENIG, Chicago, Ill.
Filed March 13, 1922. Serial No. 160,611. PUBLISHED JUNE 13, 1922.

159,405. TOILET WATERS AND PERFUMES. KOKEN COMPANIES, St. Louis, Mo.
Filed February 16, 1922. Serial No. 159,421. PUBLISHED JUNE 27, 1922.

159,406. RYE FLOUR, DAIRY FEED, HORSE FEED, SCRATCH FEED, AND CHICK FEED. LADISH MILLING CO., Milwaukee, Wis.
Filed August 28, 1920. Serial No. 136,594. PUBLISHED JANUARY 24, 1922.

159,407. SOLDER IN PASTE FORM. FRED E. LAMPE, New York, N. Y.
Filed October 7, 1920. Serial No. 138,054. PUBLISHED JUNE 28, 1921.

159,408. SODA FOUNTAINS, CARBONATORS, AND SODA-FOUNTAIN MACHINERY. LANGLEY & MICHAELS CO., San Francisco, Calif.
Filed January 23, 1922. Serial No. 158,322. PUBLISHED JULY 4, 1922.

159,409. ANTISEPTIC AND GERMICIDAL SOLUTION. LANGLEY & MICHAELS CO., San Francisco, Calif.
Filed February 23, 1922. Serial No. 159,710. PUBLISHED JULY 11, 1922.

159,410. ANTIFRICTION BEARINGS, SHAFTS, ARBORS, AND BEARING PARTS. ALBERT E. LEON, Belmont, Mass.
Filed June 20, 1921. Serial No. 149,408. PUBLISHED JULY 4, 1922.

159,411. WRITING, PRINTING, AND BOOK PAPER. C. P. LESH PAPER COMPANY, Indianapolis, Ind.
Filed April 29, 1922. Serial No. 163,092. PUBLISHED JULY 4, 1922.

159,412. WOMEN'S TONIC AND REGULATOR. ISADORE LEWYN, doing business as Lewyn Drug Co., Houston, Tex.
Filed February 13, 1922. Serial No. 159,271. PUBLISHED JUNE 27, 1922.

159,413. SEALING TAPE. LIBERTY PAPER CO., New York, N. Y.
Filed April 11, 1922. Serial No. 162,123. PUBLISHED JUNE 27, 1922.

159,414. A MALT SOFT DRINK. S. LIEBMANNS SONS INC., New York and Brooklyn, N. Y.
Filed March 10, 1922. Serial No. 160,499. PUBLISHED JULY 4, 1922.

159,415. READY-MIXED PAINTS AND VARNISHES, ALSO FOR FLOOR FILLER. LION VARNISH COMPANY, Glendale, N. Y.
Filed November 9, 1921. Serial No. 155,280. PUBLISHED JUNE 27, 1922.

159,416. PENCILS. LISTO PENCIL CORPORATION, Alameda, Calif.
Filed April 12, 1922. Serial No. 162,186. PUBLISHED JUNE 27, 1922.

159,417. MACHINE FOR MEASURING WEIGHT OR PULL. LITTLE GIANT COMPANY, Mankato, Minn.
Filed March 15, 1922. Serial No. 160,714. PUBLISHED JULY 4, 1922.

159,418. CANDIES. LOFT, INCORPORATED, New York, N. Y.
Filed February 4, 1922. Serial No. 158,878. PUBLISHED JULY 4, 1922.

159,419. WHIPPING POWDERS OR FILLERS MADE OF DRIED EGG WHITES AND GELATINE OR THE LIKE AND USED BY BAKERS. JOE LOWE CO. INC., New York, N. Y.
Filed July 21, 1921. Serial No. 150,757. PUBLISHED JUNE 20, 1922.

159,420. ALLOY STEEL. LUDLUM STEEL COMPANY, Watervliet, N. Y.
Filed April 22, 1922. Serial No. 162,747. PUBLISHED JUNE 27, 1922.

159,421. ALLOY STEEL. LUDLUM STEEL COMPANY, Watervliet, N. Y.
Filed April 22, 1922. Serial No. 162,748. PUBLISHED JUNE 27, 1922.

159,422. CERTAIN MACHINES AND PARTS OF MACHINERY. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed January 8, 1920. Serial No. 126,940. PUBLISHED JUNE 6, 1922.

159,423. MEDICINES FOR CERTAIN NAMED PURPOSES. GEORGE J. MCCABE, doing business as McCabe Drug Co., Nekoma, N. Dak.
Filed October 8, 1921. Serial No. 153,888. PUBLISHED JULY 11, 1922.

159,424. STEAM BLOWERS. MCCLAVE-BROOKS CO., Scranton, Pa.
Filed January 10, 1922. Filed No. 157,720. PUBLISHED JULY 4, 1922.

159,425. BOOKS IN A CONTINUING SERIES. MCLOUGHLIN BROS., INC., Springfield, Mass.
Filed February 11, 1922. Serial No. 159,214. PUBLISHED JUNE 27, 1922.

159,426. EXTRACT OF KOLA, COFFEE, AND CHICORY. JOHN MACKAY & COMPANY, LIMITED, Edinburgh, and Glasgow, Scotland, and Newcastle-on-Tyne, England.
Filed December 1, 1921. Serial No. 156,168. PUBLISHED APRIL 25, 1922.

159,427. CERTAIN PLUMBING SUPPLIES AND BATHROOM TRIMMINGS AND FITTINGS. THOMAS MADDOCK'S SONS COMPANY, Trenton, N. J.
Filed January 26, 1922. Serial No. 158,481. PUBLISHED JUNE 6, 1922.

159,428. MAGNESIUM ALLOYS AND CASTINGS AND FORGINGS PRODUCED THEREFROM. MAGNA METAL CORPORATION, Newark, N. J.
Filed August 11, 1921. Serial No. 151,681. PUBLISHED MARCH 21, 1922.

159,429. BABBITT, BEARING, AND ANTIFRICTION METALS AND ALLOYS. MAGNOLIA METAL COMPANY, New York, N. Y.
Filed May 6, 1922. Serial No. 163,454. PUBLISHED JUNE 27, 1922.

159,430. CONCENTRATED LIQUID MALT EXTRACTS. MALT-DIASTASE COMPANY, New York, N. Y.
Filed August 31, 1921. Serial No. 152,433. PUBLISHED NOVEMBER 1, 1921.

159,431. COVER PAPER. THE MARVELLUM COMPANY, Holyoke, Mass.
Filed March 23, 1922. Serial No. 161,139. PUBLISHED JUNE 6, 1922.

159,432. CATTLE AND STOCK FOODS. GEO. B. MATTHEWS & SONS, New Orleans, La.
Filed September 1, 1920. Serial No. 136,714. PUBLISHED JANUARY 24, 1922.

159,433. WHEAT FLOUR. MAUSER MILL COMPANY, Laurys Station, Pa.
Filed August 29, 1921. Serial No. 152,341. PUBLISHED FEBRUARY 28, 1922.

159,434. WINDOW-SHADE BRACKETS. S. A. MAXWELL & Co., Chicago, Ill.
Filed January 14, 1922. Serial No. 157,939. PUBLISHED JUNE 6, 1922.

159,435. MIXED FEEDS FOR HORSES AND MULES, CATTLE, AND CHICKENS. THE MEMPHIS COTTON HULL & FIBRE CO., LTD., Memphis, Tenn.
Filed May 13, 1921. Serial No. 147,674. PUBLISHED JANUARY 10, 1922.

159,436. NONRUSTING AND CORROSION-RESISTING ALLOY AND CASTINGS MADE THEREFROM. METAL AND ALLOY SPECIALTIES COMPANY, INC., Buffalo, N. Y.
Filed December 20, 1921. Serial No. 156,968. PUBLISHED JUNE 20, 1922.

159,437. LEGAL PAPER, LETTER PAPER, WRITING PADS, NOTE AND BLANK BOOKS, MAILING ENVELOPES, RUBBER OR RUBBER COMPOSITION ERASERS, PENCILS, AND RULERS. J. MEYERS STATIONERY & PRINTING CO., INC., New York, N. Y.
Filed March 16, 1922. Serial No. 160,769. PUBLISHED JUNE 13, 1922.

159,438. EYEGLASSES. E. B. MEYROWITZ, INC., New York, N. Y.
Filed December 30, 1921. Serial No. 157,327. PUBLISHED JUNE 27, 1922.

159,439. FLUID GAUGES. THE MID WEST GLASS COMPANY, Cincinnati, Ohio.
Filed April 4, 1922. Serial No. 161,734. PUBLISHED JULY 4, 1922.

159,440. FRYING PANS AND BROOM HOLDERS. MILLER LOCK COMPANY, Philadelphia, Pa.
Filed December 9, 1921. Serial No. 156,500. PUBLISHED JULY 4, 1922.

159,441. CERTAIN SERVICE TOOLS USED IN REPAIRING AUTOMOBILES. MILLER TOOL & MFG. CO., Detroit, Mich.
Filed December 3, 1921. Serial No. 156,231. PUBLISHED JULY 4, 1922.

159,442. CERTAIN TOOLS. MILLERS FALLS COMPANY, Millers Falls, Mass.
Filed February 24, 1921. Serial No. 143,990. PUBLISHED JUNE 6, 1922.

159,443. CERTAIN NAMED CLEANING COMPOUND. MISSION BEAD COMPANY, Los Angeles, Calif.
Filed March 2, 1922. Serial No. 160,070. PUBLISHED JUNE 20, 1922.

159,444. VARNISH STAIN. BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y.
Filed October 5, 1921. Serial No. 153,762. PUBLISHED JUNE 27, 1922.

159,445. MARMALADE, PLUM PUDDING, DAIRY PRODUCTS, MEATS, AND PORK AND BEANS, JOHN MORRELL & COMPANY, Ottumwa, Iowa.
Filed October 25, 1920. Serial No. 138,775. PUBLISHED FEBRUARY 15, 1921.

159,446. MEATS, MEAT PRODUCTS, AND OTHER FOODS—NAMELY, SAUSAGE, SLICED BACON, PURE LARD, LEAF LARD, SLICED DRIED BEEF, LAMB TONGUES, AND BOUILLON CUBES. MORRIS & COMPANY, Chicago, Ill.
Filed October 12, 1921. Serial No. 154,037. PUBLISHED JULY 4, 1922.

159,447. APPLIANCES FOR OBTAINING CASTS FOR FITTING SHOES. MORSE & BURT CO., INC., Brooklyn, N. Y.
Filed April 14, 1922. Serial No. 162,307. PUBLISHED JUNE 6, 1922.

159,448. PREPARATION USED AS A REMEDY FOR INSOMNIA AND RESTLESSNESS. H. K. MULFORD COMPANY, Philadelphia, Pa.
Filed February 15, 1922. Serial No. 159,371. PUBLISHED JUNE 27, 1922.

159,449. CARRIAGE GONGS. MULLER AND PHIPPS (ASIA) LIMITED, New York, N. Y.
Filed February 9, 1921. Serial No. 143,374. PUBLISHED JULY 18, 1922.

159,450. HORSES ON TWO, THREE, OR FOUR WHEELS FOR CHILDREN. ALLAN ANGUS MAGEE, Montreal, Quebec, Canada.
Filed April 18, 1921. Serial No. 146,321. PUBLISHED JULY 4, 1922.

159,451. COFFEE. NASH COFFEE COMPANY, Minneapolis, Minn.
Filed September 10, 1921. Serial No. 152,804. PUBLISHED JUNE 20, 1922.

159,452. BISCUITS. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed June 17, 1921. Serial No. 149,288. PUBLISHED JANUARY 31, 1922.

159,453. FRIED CAKES AND DOUGHNUTS. NATIONAL CREAM FRIED CAKE CORPORATION, Columbus, Ohio.
Filed April 7, 1921. Serial No. 145,846. PUBLISHED JANUARY 31, 1922.

159,454. HOUSEHOLD APPLIANCES CONSISTING OF HYDRAULIC MOTORS AND HYDRAULICALLY-ACTUATED CLEANERS, GRINDERS, BEATERS, BUFFERS, AND PARTS THEREOF. NATIONAL HOME APPLIANCE CORPORATION, Detroit, Mich.
Filed June 13, 1921. Serial No. 149,093. PUBLISHED JULY 4, 1922.

159,455. CHEMICAL PREPARATION WHICH IS A NEUTRALIZING AND ENERGIZING AGENT, ETC. THE NATIONAL MARKING MACHINE COMPANY, Cincinnati, Ohio.
Filed February 6, 1922. Serial No. 158,946. PUBLISHED JUNE 13, 1922.

159,456. WHEAT FLOUR. NEBRASKA CONSOLIDATED MILLS CO., Grand Island, Nebr.
Filed September 7, 1920. Serial No. 136,905. PUBLISHED FEBRUARY 7, 1922.

159,457. CANNED FRUITS AND CANNED VEGETABLES. FRED B. NEUHOFF, trading as Fred B. Neuhoff Company, Los Angeles, Calif.
Filed January 14, 1922. Serial No. 157,945. PUBLISHED JULY 4, 1922.

159,458. CANNED FRUITS AND CANNED VEGETABLES. FRED B. NEUHOFF, trading as Fred B. Neuhoff Company, Los Angeles, Calif.
Filed January 14, 1922. Serial No. 157,946. PUBLISHED JULY 4, 1922.

159,459. SEWING MACHINES AND ATTACHMENTS. THE NEW HOME SEWING MACHINE COMPANY, Orange, Mass.
Filed November 2, 1920. Serial No. 139,084. PUBLISHED JUNE 13, 1922.

159,460. TITLE OF A NEWSPAPER COLUMN. NEW YORK TRIBUNE INC., New York, N. Y.
Filed March 4, 1922. Serial No. 160,202. PUBLISHED JUNE 13, 1922.

159,461. MONTHLY PUBLICATION. JAMES F. NEWCOMB & CO. INC., New York, N. Y.
Filed March 20, 1922. Serial No. 160,958. PUBLISHED JUNE 20, 1922.

159,462. DAIRY PRODUCTS. NISSLEY CREAMERY COMPANY, Fort Worth, Tex.
Filed August 5, 1920. Serial No. 135,820. PUBLISHED FEBRUARY 14, 1922.

159,463. TOILET PREPARATIONS — NAMELY, COMPLEXION CREAM, SKIN LOTIONS, AND PREPARATIONS FOR THE HAIR AND SCALP. T. NOONAN & SONS COMPANY, Boston, Mass.
Filed March 23, 1921. Serial No. 145,119. PUBLISHED JULY 4, 1922.

159,464. LUBRICATING OILS. NOTT-ATWATER CO., Spokane, Wash.
Filed November 2, 1921. Serial No. 154,930. PUBLISHED DECEMBER 27, 1921.

159,465. WHEAT FLOUR. OKLAHOMA CITY MILL AND ELEV. CO., Oklahoma, Okla.
Filed June 29, 1921. Serial No. 149,813. PUBLISHED DECEMBER 27, 1921.

159,466. SHOE POLISH. JULIUS H. T. OLSEN, New York, N. Y.
Filed December 3, 1921. Serial No. 156,235. PUBLISHED MAY 30, 1922.

159,467. TRUNKS. ORENSTEIN TRUNK COMPANY, Newark, N. J.
Filed October 18, 1921. Serial No. 154,282. PUBLISHED DECEMBER 27, 1921.

159,468. WRITING TABLETS, COMPOSITION BOOKS, STUDENT NOTEBOOKS, PRINTING AND WRITING TABLETS. OSBORN PAPER COMPANY, Marion, Ind.
Filed April 26, 1922. Serial No. 162,947. PUBLISHED JULY 4, 1922.

159,469. SALTED WAFERS, SODA CRACKERS, AND PLAIN UNSALTED CRISP WAFERS. PACIFIC COAST BISCUIT COMPANY, Seattle, Wash.
Filed December 14, 1920. Serial No. 141,078. PUBLISHED JUNE 28, 1921.

159,470. CANDY. PAGE & SHAW, INC., Boston and Cambridge, Mass.
Filed December 28, 1921. Serial No. 157,233. PUBLISHED JUNE 27, 1922.

159,471. COMBINED CHECK AND ACCOUNT BOOKS. WILLIAM J. PALMER, Los Angeles, Calif.
Filed February 20, 1922. Serial No. 159,614. PUBLISHED JUNE 13, 1922.

159,472. AUTOMOTIVE PARTS—NAMELY, SPINDLE BOLTS, STEERING-KNUCKLE BOLTS, RING-BOLTS, TIE-ROD BOLTS, SPRING BOLTS, AND NUTS. THE PARTS SERVICE COMPANY, Cleveland, Ohio.
Filed March 20, 1922. Serial No. 160,972. PUBLISHED JULY 4, 1922.

159,473. PENCILS. FREDERICK W. PALOMBA, Waterbury, Conn.
Filed January 9, 1922. Serial No. 157,688. PUBLISHED JUNE 13, 1922.

159,474. WHEAT FLOUR. PIEDMONT MILLS, INC., Lynchburg, Va.
Filed July 19, 1920. Serial No. 135,168. PUBLISHED JANUARY 31, 1922.

159,475. METALLIC STRAPS FOR USE IN STRAPPING AND SEALING BOXES AND OTHER CONTAINERS. IRVING R. PIERSON, New York, N. Y.
Filed November 19, 1921. Serial No. 155,631. PUBLISHED JULY 4, 1922.

159,476. AUTOMOBILE AND FURNITURE POLISH. LEWIS G. PILGRIM, Detroit, Mich.
Filed September 27, 1921. Serial No. 153,406. PUBLISHED DECEMBER 27, 1921.

159,477. VALVES—NAMELY, GATE VALVES, GLOBE VALVES, AND PIPE FITTINGS—NAMELY, ELBOWS, T'S, CROSSES, Y'S, AND RETURN BENDS. PITTSBURGH REINFORCED BRAZING & MACHINE COMPANY, Pittsburgh, Pa.
Filed February 4, 1922. Serial No. 158,886. PUBLISHED JUNE 27, 1922.

159,478. LAXATIVE TABLETS. THE PLAX COMPANY, New York, N. Y.
Filed February 18, 1922. Serial No. 159,527. PUBLISHED JULY 11, 1922.

159,479. STOCK AND POULTRY FEEDS, BREAKFAST CEREALS, AND FLOURS. THE PORTLAND FLOURING MILLS CO., Portland, Oreg.
Filed June 21, 1921. Serial No. 149,484. PUBLISHED FEBRUARY 14, 1922.

159,480. HARD FIBER CORDAGE, INCLUDING CABLES, ROPES, AND TWINE. PLYMOUTH CORDAGE COMPANY, Plymouth, Mass.
Filed February 2, 1922. Serial No. 158,800. PUBLISHED JUNE 27, 1922.

159,481. MALT SIRUP FOR FOOD PURPOSES. PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill.
Filed January 23, 1922. Serial No. 158,329. PUBLISHED JULY 4, 1922.

159,482. MALT SIRUP FOR FOOD PURPOSES. PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill.
Filed January 23, 1922. Serial No. 158,330. PUBLISHED JULY 4, 1922.

159,483. MALT SIRUP FOR FOOD PURPOSES. PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill.
Filed January 23, 1922. Serial No. 158,331. PUBLISHED JULY 4, 1922.

159,484. PREPARATION FOR THE TREATMENT OF PYORRHEA. PYO-CODA LABORATORIES, New York, N. Y.
Filed February 6, 1922. Serial No. 158,948. PUBLISHED JUNE 27, 1922.

159,485. CERTAIN NAMED MEDICINAL, CHEMICAL, AND PHARMACEUTICAL PREPARATIONS. DAVID QUATEMAN, Chicago, Ill.
Filed January 24, 1921. Serial No. 142,719. PUBLISHED JUNE 27, 1922.

159,486. SUGAR, TEAS, COFFEES, RICE, COCOA, CORN STARCH. RAGUS SUGAR COMPANY, INC., Buffalo, N. Y.
Filed August 1, 1921. Serial No. 151,233. PUBLISHED FEBRUARY 14, 1922.

159,487. CERTAIN ALUMINUM KITCHEN UTENSILS AND FLATWARE. RAINBOW IMPORT & EXPORT CORPORATION, New York, N. Y.
Filed December 22, 1921. Serial No. 157,048. PUBLISHED JULY 4, 1922.

159,488. WRAPPING PAPER, BOND PAPER, AND COVER PAPER. ARTHUR R. RAPP COMPANY, Chicago, Ill.
Filed April 10, 1922. Serial No. 162,058. PUBLISHED JUNE 27, 1922.

159,489. WHEAT FLOUR. THE RED STAR MILLING COMPANY, Wichita, Kans.
Filed September 1, 1920. Serial No. 136,722. PUBLISHED NOVEMBER 9, 1920.

159,490. WHEAT FLOUR. THE RED STAR MILLING COMPANY, Wichita, Kans.
Filed September 1, 1920. Serial No. 136,724. PUBLISHED FEBRUARY 7, 1922.

159,491. ROTARY DRILL BITS, REAMERS, OIL-WELL FISHING TOOLS, AND REPAIR PARTS FOR OIL AND WATER WELLS. REED ROLLER BIT CO., Houston, Tex.
Filed October 10, 1921. Serial No. 153,950. PUBLISHED JULY 4, 1922.

159,492. METAL WARE AND METAL CULINARY UTENSILS—NAMELY, PERCOLATORS, TEAPOTS, CRUMB TRAYS AND SCRAPERS, PIE-PLATE FRAMES, CASSEROLE FRAMES, AND CASSEROLES. RELIANCE METAL SPINNING & STAMPING CO., INC., Brooklyn, N. Y.
Filed January 19, 1922. Serial No. 158,151. PUBLISHED JUNE 27, 1922.

159,493. POCKET KNIVES AND PARTS THEREOF. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn., Ilion, N. Y., Swanton, Vt., and New York, N. Y.
Filed August 5, 1921. Serial No. 151,481. PUBLISHED JUNE 6, 1922.

159,494. SOAP. THE REMMERS SOAP COMPANY, Cincinnati, Ohio.
Filed March 31, 1922. Serial No. 161,580. PUBLISHED JUNE 6, 1922.

159,495. SOAPS. THE RIEGER COMPANY, New York, N. Y.
Filed March 24, 1922. Serial No. 161,201. PUBLISHED JUNE 6, 1922.

159,496. PURE GEORGIA CANE SIRUP. RODDENBERY BROS., Cairo, Ga.
Filed January 23, 1922. Serial No. 158,334. PUBLISHED JULY 4, 1922.

159,497. MECHANICALLY-OPERATED LEAD PENCILS. THE M. S. RODENBERG CO., Providence, R. I.
Filed January 17, 1922. Serial No. 158,057. PUBLISHED MAY 23, 1922.

159,498. CHILDREN'S THREE-WHEEL PROPELLING CARS. ENOCH S. ROGERS, trading as E. S. Rogers Mfg. Co., Philadelphia, Pa.
Filed February 24, 1922. Serial No. 159,769. PUBLISHED JULY 4, 1922.

159,499. TISSUE PAPER MAINLY USED FOR CARBONIZING PURPOSES. ROSE & FRANK CO., New York, N. Y.
Filed April 19, 1922. Serial No. 162,576. PUBLISHED JULY 4, 1922.

159,500. TISSUE PAPER MAINLY USED FOR CARBONIZING PURPOSES. ROSE & FRANK CO., New York, N. Y.
Filed April 19, 1922. Serial No. 162,577. PUBLISHED JULY 4, 1922.

159,501. TISSUE PAPER MAINLY USED FOR CARBONIZING PURPOSES. ROSE & FRANK CO., New York, N. Y.
Filed April 19, 1922. Serial No. 162,578. PUBLISHED JULY 4, 1922.

159,502. SHOW-WINDOW DISPLAY FIXTURES AND PARTS THEREOF, AND PARTICULARLY FOR BRACKETS ON WHICH TO SUPPORT SHOES FOR DISPLAY. THE HERBERT RYDER CO. (NOT INCORPORATED), Chicago, Ill.
Filed December 13, 1920. Serial No. 141,025. PUBLISHED JUNE 13, 1922.

159,503. DUST CAPS FOR TIRE VALVES. SADEL & BALCH, Chicago, Ill.
Filed November 14, 1921. Serial No. 155,370. PUBLISHED JUNE 13, 1922.

159,504. ALLSPICE, LICORICE, CARAWAY SEED, NUTMEG, MILK, SUGAR, CELERY SEED, BIRD-SEED, COFFEE, TEA, FLAVORING EXTRACTS FOR FOODS. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 18, 1921. Serial No. 142,417. PUBLISHED FEBRUARY 21, 1922.

159,505. ARCH SUPPORTS. THE SAPERSTON MANUFACTURING CO., Chicago, Ill.
Filed February 21, 1921. Serial No. 143,897. PUBLISHED JUNE 27, 1922.

159,506. BELT HOOKS. JOHN D. SAWYER, doing business as Sawyer Belt Hook Co., Pawtucket, R. I.
Filed February 4, 1922. Serial No. 158,896. PUBLISHED JUNE 6, 1922.

159,507. WHEAT FLOUR. SAXONY MILLS, St. Louis, Mo.
Filed April 16, 1921. Serial No. 146,275. PUBLISHED AUGUST 16, 1921.

159,508. HOSE NOZZLES. SCHLANGEN BROS. CO., Chicago, Ill.
Filed January 7, 1922. Serial No. 157,686. PUBLISHED JULY 4, 1922.

159,509. STOCK AND POULTRY FEEDS. JOHN JOSEPH SCHREIER, Minneapolis, Minn.
Filed July 20, 1921. Serial No. 150,672. PUBLISHED FEBRUARY 7, 1922.

159,510. MALT-EXTRACT SIRUP FOR FOOD PURPOSES. SCHERPES PRODUCTS CORPORATION, Buffalo, N. Y.
Filed April 21, 1921. Serial No. 146,504. PUBLISHED JUNE 27, 1922.

159,511. CANNED SALMON. SEABOARD COMMERCIAL COMPANY, Seattle, Wash.
Filed October 10, 1919. Serial No. 123,663. PUBLISHED JANUARY 24, 1922.

159,512. KEY CASES. SECURITY KEY CASE MFG. CO., New York, N. Y.
Filed November 8, 1921. Serial No. 155,199. PUBLISHED FEBRUARY 7, 1922.

159,513. ANTISPLASH WATER FILTERS—NAMELY, A SMALL SCREW-ON STRAINER FOR FAUCETS. SEED FILTER & MANUFACTURING CO. INC., New York, N. Y.
Filed March 25, 1922. Serial No. 161,282. PUBLISHED JUNE 20, 1922.

159,514. CINEMA CAMERAS. SEPT CINEMA CAMERA DISTRIBUTORS, INC., New York, N. Y.
Filed April 7, 1922. Serial No. 161,901. PUBLISHED JULY 4, 1922.

159,515. SNAPPING MOTTOES. B. SHACKMAN & CO., New York, N. Y.
Filed May 19, 1922. Serial No. 164,125. PUBLISHED JULY 4, 1922.

159,516. SNAPPING MOTTOES. B. SHACKMAN & CO., New York, N. Y.
Filed May 19, 1922. Serial No. 164,126. PUBLISHED JULY 4, 1922.

159,517. COASTER WAGONS. SHEFFIELD MFG. CO., Burr Oak, Mich.
Filed May 27, 1922. Serial No. 164,611. PUBLISHED JULY 4, 1922.

159,518. COASTER WAGONS. SHEFFIELD MFG. CO., Burr Oak, Mich.
Filed May 27, 1922. Serial No. 164,612. PUBLISHED JULY 4, 1922.

159,519. COASTER WAGONS. SHEFFIELD MFG. CO., Burr Oak, Mich.
Filed May 27, 1922. Serial No. 164,613. PUBLISHED JULY 4, 1922.

159,520. HAND SLEDS. SHEFFIELD MFG. CO., Burr Oak, Mich.
Filed May 27, 1922. Serial No. 164,614. PUBLISHED JULY 4, 1922.

159,521. COASTER WAGONS. SHEFFIELD MFG. CO., Burr Oak, Mich.
Filed May 27, 1922. Serial No. 164,615. PUBLISHED JULY 4, 1922.

159,522. TOILET PREPARATIONS, AND MORE PARTICULARLY HAIR TONICS, PERFUMES, TOILET CREAMS, FACE POWDERS AND LOTIONS, AND NAIL POLISHES. MARIE SHIELDS, New York, N. Y.
Filed February 13, 1922. Serial No. 159,295. PUBLISHED JUNE 27, 1922.

159,523. ROQUEFORT, AMERICAN, AND CAMEMBERT CHEESE, AND SPECIALLY-PREPARED MIXTURES THEREOF—SPAGHETTI, BROTHS, AND SOUPS—NAMELY, CHICKEN BROTH—AND WELSH RAREBIT. A. SILZ, INC., New York, N. Y.
Filed July 26, 1921. Serial No. 150,981. PUBLISHED FEBRUARY 14, 1922.

159,524. TOOLS CONSISTING OF REAMERS, BORING BARS, SPECIAL METAL-WORKING TOOLS, AND MACHINE GUARDS. SKELTON TOOL CO., Syracuse, N. Y.
Filed March 9, 1921. Serial No. 144,546. PUBLISHED JULY 4, 1922.

159,525. PREPARATION FOR CLEANING AND REMOVING DIRT AND OTHER SUBSTANCES FROM GLASS AND OTHER GLAZED SURFACES. THE SKYBRYTE COMPANY, Cleveland, Ohio.
Filed December 16, 1921. Serial No. 156,810. PUBLISHED JUNE 27, 1922.

159,526. FILTERS. CAROLYN S. SMITH, doing business as the Vitalized Water Process Co., New York, N. Y.
Filed April 19, 1922. Serial No. 162,583. PUBLISHED JULY 4, 1922.

159,527. MILLINERY LACQUER. CONRAD T. SMITH, New York, N. Y.
Filed June 20, 1921. Serial No. 149,427. PUBLISHED JUNE 27, 1922.

159,528. MILLINERY GLUE. CONRAD T. SMITH, New York, N. Y.
Filed June 20, 1921. Serial No. 149,428. PUBLISHED JUNE 27, 1922.

159,529. CURTAIN HOLDERS. MARGARET J. SMITH, doing business as The UZA Manufacturing Co. (not Inc.), Chicago, Ill.
Filed March 24, 1922. Serial No. 161,204. PUBLISHED JULY 4, 1922.

159,530. BLANK ACCOUNT BOOKS. WALTER DALE SMITH, Rosedale, Kans.
Filed January 25, 1922. Serial No. 158,459. PUBLISHED MARCH 14, 1922.

159,531. WHEAT FLOUR. THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y., and Kansas City, Mo.
Filed November 12, 1921. Serial No. 155,326. PUBLISHED JULY 4, 1922.

159,532. WHEAT FLOUR. SPERRY FLOUR COMPANY, San Francisco, Calif.
Filed May 7, 1921. Serial No. 147,373. PUBLISHED FEBRUARY 14, 1922.

159,533. SOUR MILK. DR. SPIEKER'S BULGARIAN YOGHURT CORPORATION, New York, N. Y.
Filed April 22, 1921. Serial No. 146,599. PUBLISHED FEBRUARY 14, 1922.

159,534. POULTRY AND STOCK FEEDS. ST. ALBANS GRAIN COMPANY, St. Albans, Vt.
Filed June 18, 1920. Serial No. 133,898. PUBLISHED FEBRUARY 7, 1922.

159,535. STRAWBOARD BOXES. STANDARD CORRUGATED BOX CO., St. Louis, Mo.
Filed May 15, 1920. Serial No. 132,458. PUBLISHED JANUARY 25, 1921.

159,536. WAX AND CHALK CRAYONS. STANDARD CRAYON MANUFACTURING CO., Danvers, Mass.
Filed April 5, 1922. Serial No. 161,798. PUBLISHED JULY 4, 1922.

159,537. WAX AND CHALK CRAYONS. STANDARD CRAYON MANUFACTURING CO., Danvers, Mass.
Filed April 5, 1922. Serial No. 161,799. PUBLISHED JUNE 6, 1922.

159,538. WAX AND CHALK CRAYONS. STANDARD CRAYON MANUFACTURING CO., Danvers, Mass.
Filed April 5, 1922. Serial No. 161,800. PUBLISHED JUNE 6, 1922.

159,539. WAX AND CHALK CRAYONS. STANDARD CRAYON MANUFACTURING CO., Danvers, Mass.
Filed April 5, 1922. Serial No. 161,801. PUBLISHED JUNE 6, 1922.

159,540. WAX AND CHALK CRAYONS. STANDARD CRAYON MANUFACTURING CO., Danvers, Mass.
Filed April 5, 1922. Serial No. 161,802. PUBLISHED JUNE 6, 1922.

159,541. WAX AND CHALK CRAYONS. STANDARD CRAYON MANUFACTURING CO., Danvers, Mass.
Filed April 6, 1922. Serial No. 161,856. PUBLISHED JUNE 27, 1922.

159,542. PACKAGED MEAT—NAMELY, PORK SAUSAGE. JOSEPH STERN & SONS, INC., New York, N. Y.
Filed October 24, 1921. Serial No. 154,535. PUBLISHED JUNE 27, 1922.

159,543. TIME CONTROLLER FOR ELECTRIC APPLIANCES. THE STEROLECTRIC COMPANY, Muncie, Ind.
Filed January 16, 1922. Serial No. 158,014. PUBLISHED JUNE 27, 1922.

159,544. CAN OPENER. ROBERT T. STEVENSON, doing business as The Stevenson Sales Company, Chicago, Ill.
Filed January 27, 1922. Serial No. 158,543. PUBLISHED JULY 4, 1922.

159,545. AIR LIFTS AND LIQUID SEPARATORS. SULLIVAN MACHINERY COMPANY, Boston, Mass., and Chicago, Ill.
Filed April 7, 1921. Serial No. 145,861. PUBLISHED JULY 4, 1922.

159,546. CARTOON SERIALS. THE SUN-HERALD CORPORATION, New York, N. Y.
Filed January 13, 1922. Serial No. 157,905. PUBLISHED MAY 30, 1922.

159,547. BAKERY PRODUCTS — NAMELY, BREAD, ROLLS, BUNS, CAKES, DESSERTS, PIES, CRACKERS, BISCUITS. SUN LITE BAKERIES SYSTEM INC., Pittsburgh, Pa.
Filed December 9, 1920. Serial No. 140,851. PUBLISHED FEBRUARY 14, 1922.

159,548. CERTAIN COOKING AND HOUSEHOLD UTENSILS OF ALUMINUM. SUPERIOR MANUFACTURING CO., Massillon, Ohio.
Filed March 24, 1922. Serial No. 161,205. PUBLISHED JULY 4, 1922.

159,549. CANDY. SWEET CANDY CO., Salt Lake City, Utah.
Filed October 14, 1919. Serial No. 123,779. PUBLISHED JUNE 27, 1922.

159,550. CONFECTIONS — NAMELY, CANDY. THE SYKES & THOMPSON CO., Cleveland, Ohio.
Filed December 17, 1921. Serial No. 156,866. PUBLISHED JULY 4, 1922.

159,551. COMPOUND FOR TREATING CATARRH, ASTHMA, AND COLDS. CHARLES G. TAYLOR, doing business as The Bok-A-Bel Medicine Co., Peoria, Ill.
Filed February 15, 1922. Serial No. 159,389. PUBLISHED JULY 4, 1922.

159,552. METERS FOR AUTOMATICALLY RECORDING THE LENGTH OF TELEPHONE CONVERSATION IN UNITS OF TIME. THE TELECHRONOMETER COMPANY OF AMERICA, Seattle, Wash.
Filed December 2, 1921. Serial No. 156,204. PUBLISHED JUNE 6, 1922.

159,553. EGGS. A. F. THIBODEAU COMPANY, Detroit, Mich.
Filed May 4, 1921. Serial No. 147,221. PUBLISHED FEBRUARY 14, 1922.

159,554. CALF FEED, DAIRY FEED, SCRATCH FEED, CHICK FEED, STOCK FEED, HORSE FEED, HOG FEED, POULTRY MASH, AND CHOP FEED. THOMAS-BOYCE DIRECT FEED COMPANY, Attica, N. Y., and Indianapolis, Ind.
Filed January 10, 1921. Serial No. 142,049. PUBLISHED JANUARY 10, 1922.

159,555. CANNED CRAB MEAT, FISH, VEGETABLES, FRUITS, AND PICKLES. SEIROKU TSUTSUMI, Tokyo, Japan.
Filed March 21, 1921. Serial No. 145,046. PUBLISHED JUNE 27, 1922.

159,556. CUT AND PLUG TOBACCO. THE TUCKETT TOBACCO COMPANY, LIMITED, Hamilton and London, Ontario, and Montreal, Quebec, Canada.
Filed March 5, 1921. Serial No. 144,358. PUBLISHED JULY 4, 1922.

159,557. GAS FILTERS. UEHLING INSTRUMENT COMPANY, Paterson, N. J., and New York, N. Y.
Filed March 11, 1922. Serial No. 160,569. PUBLISHED JUNE 20, 1922.

159,558. A MEDICINAL PREPARATION FOR CERTAIN NAMED PURPOSES. ULTRA REFINED CRUDE PRODUCTS CO., Chicago, Ill.
Filed February 8, 1922. Serial No. 159,065. PUBLISHED JUNE 27, 1922.

159,559. STEEL, ALLOY STEEL, IRON AND STEEL BARS, AND SHEET BARS. UNITED ALLOY STEEL CORPORATION, New York, N. Y., and Canton, Ohio.
Filed April 12, 1922. Serial No. 162,222. PUBLISHED JUNE 27, 1922.

159,560. STEEL, ALLOY STEEL, AND IRON AND STEEL BARS, AND SHEET BARS. UNITED ALLOY STEEL CORPORATION, New York, N. Y., and Canton, Ohio.
Filed April 12, 1922. Serial No. 162,223. PUBLISHED JUNE 27, 1922.

159,561. BEER AND NEAR BEER. UNITED STATES BREWING COMPANY, Newark, N. J.
Filed MAY 7, 1921. Serial No. 147,380. PUBLISHED JULY 4, 1922.

159,562. CARBURETORS. U. S. CARBURETOR CO., INC., New York, N. Y.
Filed July 30, 1921. Serial No. 151,189. PUBLISHED JUNE 6, 1922.

159,563. CHAINS OF BASE METAL AND TIRE-GRIP CHAINS. UNITED STATES CHAIN & FORGING CO., Pittsburgh, Pa.
Filed November 23, 1921. Serial No. 155,840. PUBLISHED JUNE 13, 1922.

159,564. CEMENT SUCH AS IS USED IN THE MANUFACTURE AND REPAIRING OF BOOTS AND SHOES. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed May 21, 1921. Serial No. 148,041. PUBLISHED JULY 4, 1922.

159,565. POWDER FOR CLEANING CLOSET BOWLS. UNITED STORES SUPPLY COMPANY, Minneapolis, Minn.
Filed January 28, 1922. Serial No. 158,586. PUBLISHED JUNE 20, 1922.

159,566. VEGETABLE-OIL SOAP. THE URBANE E. ROGERS COMPANY, Dallas, Tex.
Filed January 14, 1922. Serial No. 157,959. PUBLISHED JUNE 27, 1922.

159,567. SAFES AND LOCKS. THE VICTOR SAFE AND LOCK COMPANY, Cincinnati, Ohio.
Filed March 22, 1922. Serial No. 161,076. PUBLISHED JUNE 27, 1922.

159,568. TRACING PAPER. GEORGE VINCENT, New York, N. Y.
Filed November 10, 1921. Serial No. 155,282. PUBLISHED JUNE 13, 1922.

159,569. WHEAT FLOUR. THE VOLLMER CLEARWATER COMPANY, LTD., Lewiston, Idaho.
Filed December 28, 1920. Serial No. 141,613. PUBLISHED JANUARY 10, 1922.

159,570. LUBRICATING OILS. WADHAMS OIL COMPANY, Milwaukee, Wis.
Filed November 18, 1921. Serial No. 155,579. PUBLISHED MAY 2, 1922.

159,571. LEADS SUITABLE FOR USE IN MECHANICAL PENCILS. THE WAHL COMPANY, Chicago, Ill.
Filed February 7, 1920. Serial No. 128,122. PUBLISHED AUGUST 23, 1921.

159,572. TOILET PREPARATIONS OF VARIOUS KINDS OF TOILET SOAPS, COMPRISING COMPLEXION SOAPS AND ANTISEPTIC SOAPS. THE MADAM C. J. WALKER MANUFACTURING COMPANY, Indianapolis, Ind.
Filed January 25, 1922. Serial No. 158,463. PUBLISHED JUNE 27, 1922.

159,573. CANDIES. WALLACE & CO., Brooklyn, N. Y.
Filed January 24, 1922. Serial No. 158,407. PUBLISHED JULY 4, 1922.

159,574. SURFACE COATED, ROLL-PRINTED, METAL-COATED, AND EMBOSSED PAPER. WALTHER & COMPANY, New York, N. Y.
Filed March 18, 1922. Serial No. 160,909. PUBLISHED JUNE 13, 1922.

159,575. SOAPS. JOHN WANAMAKER, PHILADELPHIA, Philadelphia, Pa.
Filed December 14, 1921. Serial No. 156,727. PUBLISHED JULY 4, 1922.

159,576. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed October 11, 1920. Serial No. 138,196. PUBLISHED JANUARY 10, 1922.

159,577. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed October 11, 1920. Serial No. 138,197. PUBLISHED JANUARY 10, 1922.

159,578. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed November 20, 1920. Serial No. 139,918. PUBLISHED JANUARY 10, 1922.

159,579. GLASSINE PAPER. THE WARREN MANUFACTURING COMPANY, New York, N. Y.
Filed February 21, 1922. Serial No. 159,673. PUBLISHED JUNE 13, 1922.

159,580. WHEAT FLOUR. J. S. WATERMAN & CO., INC., New Orleans, La.
Filed August 23, 1921. Serial No. 152,111. PUBLISHED FEBRUARY 14, 1922.

159,581. PAPER TOWELS. WEST DISINFECTANT COMPANY, New York, N. Y.
Filed April 21, 1922. Serial No. 162,705. PUBLISHED JULY 4, 1922.

159,582. CERTAIN ARTICLES OF HARDWARE AND ANCHORING APPLIANCES FOR TELEPHONE AND TELEGRAPH LINES. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed June 17, 1918. Serial No. 111,635. PUBLISHED JULY 4, 1922.

159,583. CANNED WHITE TUNA FISH. WESTGATE SEA PRODUCTS CO., San Diego, Calif.
Filed January 14, 1922. Serial No. 157,973. PUBLISHED JULY 4, 1922.

159,584. FRESH DECIDUOUS FRUITS. WHITE BROS. & CRUM CO., Lewiston, Idaho.
Filed January 23, 1922. Serial No. 158,349. PUBLISHED JULY 4, 1922.

159,585. WRITING-PAPER TABLETS, PAPETERIES, TYPEWRITER TABLETS, WRITING AND PRINTING PAPER, AND MAILING ENVELOPES. WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass.
Filed January 16, 1922. Serial No. 158,024. PUBLISHED JUNE 6, 1922.

159,586. CERTAIN BATHROOM FIXTURES AND ENAMELED WARE. WHYT E NAML SPECIALTY CO. INC., Brooklyn, N. Y.
Filed February 7, 1922. Serial No. 159,003. PUBLISHED JUNE 6, 1922.

159,587. RYE BREAD. MORVTZ H. WILDSTEIN, New York, N. Y.
Filed August 3, 1921. Serial No. 151,345. PUBLISHED NOVEMBER 29, 1921.

159,588. CITRUS FRUITS IN THEIR NATURAL STATE. MARY F. WILKINS, doing business as Med-O-Lark Groves, Minneapolis, Minn.
Filed January 26, 1922. Serial No. 158,497. PUBLISHED JUNE 20, 1922.

159,589. CRUSHERS AND LIKE MACHINES. WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo.
Filed January 21, 1922. Serial No. 158,279. PUBLISHED JULY 4, 1922.

159,590. CRUSHERS AND LIKE MACHINES. WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo.
Filed January 25, 1922. Serial No. 158,462. PUBLISHED JULY 4, 1922.

159,591. LUBRICATING OILS. FRANK L. WILSON, doing business as F. L. Wilson Oil & Chemical Co., Barry, Ill.
Filed October 11, 1921. Serial No. 154,005. PUBLISHED JUNE 27, 1922.

159,592. DOLLS. WOLF DOLL CO. INC., New York, N. Y.
Filed April 24, 1922. Serial No. 162,864. PUBLISHED JULY 4, 1922.

159,593. SHAVING BRUSHES. WONTSHED BRUSH CO., Troy, N. Y.
Filed March 24, 1922. Serial No. 161,218. PUBLISHED JULY 4, 1922.

159,594. CHILDREN'S COASTER CARS. WOODSTOCK MANUFACTURING CO., INC., Rochester, N. Y.
Filed March 29, 1922. Serial No. 161,468. PUBLISHED JULY 4, 1922.

159,595. CHILDREN'S ROCKERS. WOODSTOCK MANUFACTURING CO., INC., Rochester, N. Y.
Filed March 29, 1922. Serial No. 161,469. PUBLISHED JULY 4, 1922.

159,596. BRUSHES—NAMELY, PAINTBRUSHES, VARNISH BRUSHES, WHITEWASH AND CALCIMINE BRUSHES, WALL BRUSHES, HORSE BRUSHES, HAIRBRUSHES, AND FLESH BRUSHES. THE WOOSTER BRUSH COMPANY, Wooster, Ohio.
Filed March 9, 1922. Serial No. 160,448. PUBLISHED JULY 4, 1922.

159,597. BRUSHES—NAMELY, PAINTBRUSHES, VARNISH BRUSHES, WHITEWASH AND CALCIMINE BRUSHES, WALL BRUSHES, HORSE BRUSHES, HAIRBRUSHES, AND FLESH BRUSHES. THE WOOSTER BRUSH COMPANY, Wooster, Ohio.
Filed March 9, 1922. Serial No. 160,449. PUBLISHED JULY 4, 1922.

159,598. SUGAR-COATED CHEWING GUM. WM. WRIGLEY JR. COMPANY, Chicago, Ill.
Filed March 5, 1921. Serial No. 144,363. PUBLISHED JUNE 28, 1921.

159,599. SUGAR-COATED CHEWING GUM. WM. WRIGLEY JR. COMPANY, Chicago, Ill.
Filed March 5, 1921. Serial No. 144,364. PUBLISHED JUNE 28, 1921.

159,600. FOOD TONIC CONTAINING VITAMINES OF YEAST. THE YEAST TABLET CO., South Bend, Ind.
Filed January 26, 1922. Serial No. 158,511. PUBLISHED JULY 4, 1922.

159,601. MEATS, SCRAPPLE, CHILE CON CARNE, PIG SOUSE, MINCEMEAT. YELLOWSTONE PACKING COMPANY, Billings, Mont.
Filed April 19, 1920. Serial No. 131,370. PUBLISHED MARCH 8, 1921.

159,602. OIL PAINT. WILLIAM ZINSSER & COMPANY, INCORPORATED, New York, N. Y.
Filed January 19, 1922. Serial No. 158,166. PUBLISHED JULY 4, 1922.

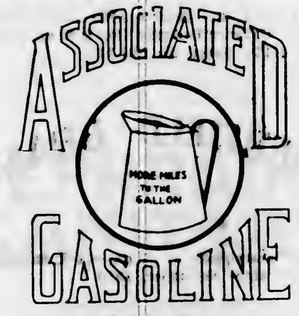
TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

SEPTEMBER 26, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

159,603. (CLASS 15. OILS AND GREASES.) ASSOCIATED OIL COMPANY, San Francisco, Calif. Filed June 10, 1922. Serial No. 165,262.



Particular description of goods.—Gasoline.
Claims use since 1913.

159,604. (CLASS 15. OILS AND GREASES.) AYOTTE MANUFACTURING CO., Chicago, Ill. Filed Aug. 11, 1921. Serial No. 151,652.



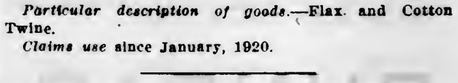
Particular description of goods.—Lubricating Oils.
Claims use since JAN. 2, 1921.

159,605. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM T. BAKER, INC., Jersey City, N. J. Filed June 23, 1921. Serial No. 149,538.



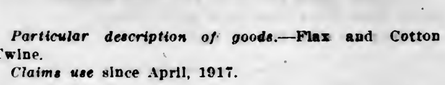
Particular description of goods.—Mixed Paints, Varnishes, and Coatings.
Claims use since about December, 1916.

159,606. (CLASS 7. CORDAGE.) J. E. BARBOUR CO., Clifton, N. J. Filed May 17, 1922. Serial No. 163,963.



Particular description of goods.—Flax and Cotton Twine.
Claims use since January, 1920.

159,607. (CLASS 7. CORDAGE.) J. E. BARBOUR CO., Clifton, N. J. Filed May 19, 1922. Serial No. 164,100.



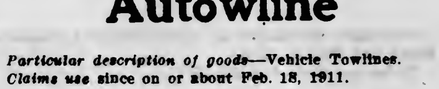
Particular description of goods.—Flax and Cotton Twine.
Claims use since April, 1917.

159,608. (CLASS 2. RECEPTACLES.) ALFRED BLEYER & CO., New York, N. Y. Filed June 27, 1921. Serial No. 149,676.



Particular description of goods.—Paper Plates.
Claims use since Feb. 1, 1921.

159,609. (CLASS 7. CORDAGE.) BRODERICK & BASCOM ROPE COMPANY, St. Louis, Mo. Filed Feb. 1, 1922. Serial No. 158,701.



Particular description of goods—Vehicle Towlines.
Claims use since on or about Feb. 18, 1911.

159,610. (CLASS 5. ADHESIVES.) BURT MACHINE COMPANY, INCORPORATED, Baltimore, Md. Filed June 7, 1922. Serial No. 165,121.

BURT-GLUE

Particular description of goods.—An Adhesive Used in Applying Labels.
Claims use since May 31, 1921.

159,611. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE COLUMBIA TIRE AND RUBBER COMPANY, Mansfield, Ohio. Filed Jan. 9, 1922. Serial No. 157,657.

DUNBAR

Particular description of goods.—Inner Tubes for Pneumatic Tires, Cord Tires, and Fabric Tires.
Claims use since Mar. 2, 1921.

159,612. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CORD TIRE CORPORATION, Chester, W. Va. Filed May 22, 1922. Serial No. 164,231.

SUPERIOR

Particular description of goods.—Rubber Automobile Tires, Including the Casing and Inner Tube.
Claims use since about May, 1919.

159,613. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,379.



Particular description of goods.—Braided Enameled Japan Silk Fishing Lines.
Claims use since Aug. 22, 1917.

159,614. (CLASS 15. OILS AND GREASES.) CRESCENT BELT FASTENER COMPANY, New York, N. Y. Filed Apr. 1, 1922. Serial No. 161,615.

HANDY-BAR

Particular description of goods.—Belt Dressing.
Claims use since 1901.

159,615. CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DETROIT PACKING CO., Detroit, Mich. Filed Mar. 23, 1922. Serial No. 161,119.

DEERFIELD BRAND

Particular description of goods.—Pork Sausage.
Claims use since November, 1919.

159,616. (CLASS 45. BEVERAGES, NONALCOHOLIC.) EDWARD DIEHL, doing business as Diehl & Lord, Nashville, Tenn. Filed July 14, 1922. Serial No. 166,877.

DELAWARE GRAPE

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup Therefor.
Claims use since May 1, 1914.

159,617. (CLASS 45. BEVERAGES, NONALCOHOLIC.) RICHARD C. DILLMORE, Philadelphia, Pa. Filed June 22, 1922. Serial No. 165,857.



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making Same.
Claims use since on or about Jan. 1, 1920.

159,618. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) EDISON TIRE & RUBBER CO., INC., Chicago, Ill. Filed Oct. 10, 1921. Serial No. 153,928.

EDISON

Particular description of goods.—Automobile Rubber Tires.
Claims use since on or about Dec. 1, 1919.

159,619. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EPHRAIM SANITARY CANNING COMPANY, Ephraim, Utah. Filed Mar. 23, 1922. Serial No. 161,122.

EPHRAIM SANITARY

Particular description of goods.—Canned Vegetables.
Claims use since July 1, 1921.

159,620. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE GATES RUBBER COMPANY, Denver, Colo. Filed Mar. 26, 1919. Serial No. 116,921.

DOUBLE MILEAGE

Particular description of goods.—Rubber Tires.
Claims use since on or about Jan. 1, 1919.

159,621. (CLASS 37. PAPER AND STATIONERY.) GIVEN PAPER COMPANY, St. Paul, Minn. Filed Apr. 14, 1922. Serial No. 162,292.

GIVEN
"Handy Packet"

Particular description of goods.—Writing Paper and Envelopes.
Claims use since Nov. 1, 1919.

159,622. (CLASS 5. ADHESIVES.) GUM-ZE MANUFACTURING CO., Los Angeles, Calif. Filed July 10, 1922. Serial No. 166,675.

GUM-ZE

Particular description of goods.—Gasket-Sealing Composition.
Claims use since Dec. 1, 1918.

159,623. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HARDWEAR TIRE CORPORATION, Rutherford, N. J. Filed May 23, 1922. Serial No. 164,320.

HARDWEAR

Particular description of goods.—Rubber Pneumatic Tires.
Claims use since Nov. 1, 1920.

159,624. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ROBERT H. HASSLER, INC., Indianapolis, Ind. Filed Oct. 25, 1919. Serial No. 124,178.



Particular description of goods.—Shock Absorbers for Ford Cars.
Claims use since July 15, 1916.

159,625. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. H. HAY SONS, Portland, Me. Filed Mar. 3, 1922. Serial No. 160,134.

Five Fruit

Particular description of goods.—Fruit Sirup Used as a Food Drink or Food Flavor.
Claims use since Sept. 11, 1911.

159,626. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE JERSEY CEREAL FOOD COMPANY, Cereal, Pa. Filed Aug. 19, 1920. Serial No. 136,266.

JERSEY

Particular description of goods.—Flours, Corn Meal, Corn Flakes, Rolled Oats, Bran, Laxative Wheat Food, Rolled Wheat, Hominy, and Wheat Flakes.
Claims use since 1903.

159,627. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) KEYS PISTON RING COMPANY, St. Louis, Mo. Filed Oct. 3, 1921. Serial No. 153,667.

Seatfast

Particular description of goods.—Piston Rings.
Claims use since July 30, 1921.

159,628. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 23, 1922. Serial No. 164,331.

ETON

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since May, 1901.

159,629. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AUSTIN J. LINEHAN, Jersey City, N. J. Filed Mar. 27, 1920. Serial No. 130,282.

AUSTIN

Particular description of goods.—Roof Paint.
Claims use since February, 1920.

159,630. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MIDLAND CEREAL PRODUCTS CO., Denver, Colo. Filed Aug. 24, 1920. Serial No. 136,422.



Particular description of goods.—Breakfast Cereals.
Claims use since September, 1918.

159,631. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL CREAM FRIED CAKE CORPORATION, Columbus, Ohio. Filed Apr. 7, 1921. Serial No. 145,845.

KREAM FRYDKAKES

Particular description of goods.—Doughnuts.
Claims use since Feb. 21, 1921.

159,632. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OEST FRUIT CO., San Francisco, Calif. Filed Mar. 29, 1922. Serial No. 161,447.

Oests

Particular description of goods.—Jams, Jellies, and Orange Marmalade.
Claims use since May 1, 1900.

159,633. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JAMES O'FLAHERTY, New York, N. Y., assignor to O'Flaherty's New York Suburban List, Inc., New York, N. Y., a Corporation of New York. Filed May 26, 1920. Serial No. 132,990.

PEERLESS

Particular description of goods.—Paper Matrices.
Claims use since about the middle of April, 1920.

159,634. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JAMES O'FLAHERTY, New York, N. Y., assignor to O'Flaherty's New York Suburban List, Inc., New York, N. Y., a Corporation of New York. Filed May 26, 1920. Serial No. 132,990½.



Particular description of goods.—Paper Matrices.
Claims use since about the middle of April, 1920.

159,635. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PASSAIC PRINT WORKS, Passaic, N. J. Filed Dec. 7, 1921. Serial No. 156,407.

PASSAIC

CHALLIES

Particular description of goods.—Cotton Piece Goods.
Claims use since September, 1910.

159,636. (CLASS 15. OILS AND GREASES.) PENNSYLVANIA SYNTHETIC GAS & CHEMICAL COMPANY, Philadelphia, Pa. Filed Mar. 24, 1922. Serial No. 161,108.

NEWGAS

Particular description of goods.—Fuel for Internal-Combustion Engines.
Claims use since on or about Jan. 1, 1921.

159,637. (CLASS 31. FILTERS AND REFRIGERATORS.) PERFECTION COOLER CO., Stoughton, Mass. Filed July 17, 1922. Serial No. 167,010.

PERFECTION

Particular description of goods.—Coolers and Freezers.
Claims use since about Sept. 10, 1908.

159,638. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Nov. 9, 1920. Serial No. 139,423.



Particular description of goods.—Wheat Flour.
Claims use since on or about Mar. 4, 1895.

159,639. (CLASS 45. BEVERAGES, NONALCOHOLIC.) REDONDO PACKING CORP., Los Angeles, Calif. Filed July 17, 1922. Serial No. 167,021.

WILSHIRE
THERE'S A REDONDO BRAND DIFFERENT

Particular description of goods.—Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups Used in Preparation of Same.
Claims use since May, 1921.

159,640. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) RIVERSIDE BOILER WORKS, INC., Cambridge, Mass. Filed June 13, 1921. Serial No. 149,101.

KANTLEAK

Particular description of goods.—Range Boilers.
Claims use since June 4, 1921.

159,641. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RIVERSIDE BAKING COMPANY, INC., Harrisburg, Pa. Filed Aug. 24, 1921. Serial No. 152,138.

HERRE'S BREAD CAKES PASTRY

Particular description of goods.—Cakes, Bread, and Pastry.
Claims use since about Oct. 4, 1919.

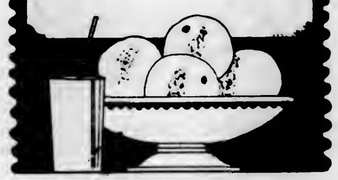
159,642. (CLASS 45. BEVERAGES, NONALCOHOLIC.) HERMAN SILVERMAN, doing business as the U. S. Bottling Co., Butler, Pa. Filed June 13, 1922. Serial No. 165,465.

Grape Nectar

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup Therefor.
Claims use since May 1, 1915.

159,643. (CLASS 45. BEVERAGES, NONALCOHOLIC.) THE SOUTHERN CALIFORNIA SUPPLY CO., Los Angeles, Calif. Filed Apr. 14, 1922. Serial No. 162,324.

SO-CAS-CO
ORANGE
A L E



Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup Therefor.
Claims use since Dec. 1, 1920.

159,644. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHWEST CRACKER CO., Wichita, Kans. Filed May 25, 1921. Serial No. 148,244.

Gold Medal

Particular description of goods.—Lemon, Graham, and Oatmeal Biscuit; Peanut, Cream, and Vanilla Wafers; Soda Crackers; Fig Bars; Gingersnaps.
Claims use since January, 1908.

159,645. (CLASS 2. RECEPTACLES.) ST. LOUIS PUMP & EQUIPMENT COMPANY, St. Louis, Mo. Filed Feb. 27, 1922. Serial No. 159,888.

St. Louis Pump and Equipment Co.
ST. LOUIS, MISSOURI.
ST. LOUIS
LIQUID HANDLING EQUIPMENT
Better Design • Better Service

Particular description of goods.—Storage Receptacles for Oil and Other Liquids.
Claims use since Jan. 24, 1921.

159,646. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) STEIGER & HERMAN, New York, N. Y. Filed May 31, 1921. Serial No. 148,462.

BREAKLESS

Particular description of goods.—Trunks, Valises, Suitcases, and Traveling Bags.
Claims use since Jan. 1, 1920.

159,647. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) TAYLOR-WILLIAMS CO., Columbus, Ohio. Filed Aug. 24, 1921. Serial No. 152,144.

MINUTE MEND

Particular description of goods.—Repair Kits for Tubes.
Claims use since July 1, 1921.

159,648. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UFFELMANN BAKING COMPANY, Cincinnati, Ohio. Filed Mar. 29, 1921. Serial No. 145,420.

GOLDEN KRUST

Particular description of goods.—Bread.
Claims use since Nov. 1, 1917.

159,649. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHITNEY POULTRY FARM, INC., Mariboro, N. Y. Filed June 9, 1921. Serial No. 148,908.

WHITNEY-BARRON
300
EGG
STRAIN

Particular description of goods.—Eggs, Live and Dressed Poultry.
Claims use since Jan. 1, 1921.

159,650. (CLASS 33. GLASSWARE.) HENRY WITTE, New York, N. Y. Filed Apr. 23, 1921. Serial No. 146,672.

CARVED GOLD

Particular description of goods.—Goblets, Tumblers, Drinking Vessels, Cups, Dishes, Bowls, Bottles, and Pitchers.
Claims use since October, 1919.

TRADE-MARK REGISTRATIONS CANCELED.

68,916. WHEAT FLOUR. THE HIGGINSVILLE MILLING CO., Higginsville, Mo. Registered May 5, 1908. Canceled August 16, 1922.

91,961. MEN'S HALF HOSE OR SOCKS. GUY, CURRAN & CO., Washington, D. C. Registered June 10, 1913. Canceled August 17, 1922.

103,122. DOLL FORM. J. B. ROWLAND MANUFACTURING CO., Yonkers, N. Y. Registered March 16, 1915. Canceled August 17, 1922.

132,559. TOILET PREPARATIONS—VIZ, TALCUM POWDER. TALCUM PUFF COMPANY, Brooklyn, N. Y. Registered June 22, 1920. Canceled August 17, 1922.

133,524. TOILET PREPARATIONS—VIZ, TALCUM POWDER. TALCUM PUFF COMPANY, Brooklyn, N. Y. Registered July 27, 1920. Canceled August 17, 1922.

139,461. CERTAIN ARTICLES OF CLOTHING. THE MACEY COMPANY, INC., St. Paul, Minn. Registered February 1, 1921. Canceled August 17, 1922.

144,383. PHONOGRAPH RECORDS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J. Registered July 5, 1921. Canceled August 10, 1922.

147,819. HAIR NETS. LEON STEIN, New York, N. Y. Registered November 1, 1921. Canceled August 17, 1922.

148,460. DRESSES. KOHN, LEINHARDT & SIMON, INC., New York, N. Y. Registered November 15, 1921. Canceled August 17, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

LINDAU *v.* SMULSKI.

No. 3[illegible]. Decided April 3, 1922.

[280 Fed. Rep., 463.]

PATENTS—INTERFERENCE—RIGHT TO MAKE CLAIM.

Held that S., the junior party, had no right to make the claim of the issue, and the award of priority to L., the senior party, affirmed.

Mr. E. S. Clarkson and *Mr. James A. Carr* for the appellant.

Mr. Thomas B. Booth for the appellee.

ROBB, *J.:*

Appeal from a decision of the Commissioner of Patents in an interference proceeding awarding priority to Smulski, on the ground that Lindau has no right to make the claims.

The invention relates to a reinforcement for concrete floor construction and is expressed in two claims, of which the second is sufficiently illustrative, as follows:

2. In a concrete slab construction, the combination with a supporting column of reinforcing members diverging from the axis of the column, each of said members having a reverse bend near the column and presenting a tension reinforcement portion near the upper surface of the slab, and a prolonged compression reinforcement portion near the lower surface of the slab.

Smulski was the first to conceive the invention but, at the time Lindau filed his application in April of 1910, was lacking in diligence, his inactivity continuing until a short time prior to the filing of his application on January 8, 1913. This application, containing the claims of the issue, ripened into a patent on September 21, 1915.

Prior to the granting of the Smulski patent his construction had been embodied in at least two structures. In October of 1915 there was published in the Engineering Record a full description of the Smulski system of reinforcement as embodied in the Youths Companion Building at Boston, Massachusetts, and at a meeting of the American Concrete Institute, Mr Lindau being present, Smulski read a paper descriptive of his system, which later was published in the Engineering Record. In February of 1917 Lindau, with two other employees of the Corrugated Bar Company, Lindau's assignee, met Smulski in Chicago and there discussed with him, according to a letter subsequently written Smulski by Lindau, Smulski's "system of flat slab construction." According to Smulski, the purpose of this interview was to obtain from him, for the Corrugated Bar Company, the right to use his invention. Soon after it became apparent that these overtures on behalf of the Corrugated Bar Company would not be successful, Lindau, on October 14, 1917, copied the two claims of the issue from the Smulski patent for the purpose of this interference. Down to that time there was no claim in the Lindau application embracing this subject matter. Smulski, as might have been expected, challenged Lindau's right to make the claims, his contention then and now being that Lindau's member "8" is not so located as to constitute—

a prolonged compression reinforcement portion near the lower surface of the slab.

The Law Examiner ruled in favor of Lindau. On final hearing the Examiner of Interferences did not consider the question of Lindau's right to make the claims, as he felt himself bound by the action of the Law Examiner. The Examiners in Chief, while recognizing that Lindau had not mentioned in his application compression reinforcement, and that his method of reinforcement differed from that of Smulski, nevertheless were of the view that Lindau could make the claims. The Board said:

It appears to be a fact that the reinforcement member 8 of Lindau is not shaped and located in a manner to effect most efficient reinforcement against compression stresses in the slab, but nevertheless we are of the opinion that as shown and described it serves inherently as a compression reinforcement to a substantial degree.

The Commissioner, however, appreciating that the claims were copied from the Smulski patent, the character of the claims, the circumstances under which the amendment carrying them was made, the meagerness of the Lindau specification and the actual and (as he conceived) material difference between the two structures, ruled that Lindau did not have the right to make the claims, and therefore awarded priority to Smulski.

This is a comparatively new art and it is apparent that Smulski had a very definite object in mind when he devised the structure described in these two claims. That Lindau must have appreciated this is clear from what occurred, and yet it was not until after he had failed to obtain the bene-

fits of the invention through other means that he asserted a right to make these claims. The fact that he then entertained a doubt about that right, that the claims were copied from the Smulski patent and must therefore be read in the light of the Smulski specification, coupled with the other facts and circumstances to which we have alluded and the inherent probabilities of the case, lead us to accept the conclusion and reasoning of the Commissioner.

The decision therefore must be affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

IN RE POWER.

No. 1492. Decided June 5, 1922.

PATENTS—CLAIMS SUBSTANTIALLY THE SAME AS THE ISSUES OF AN INTERFERENCE NOT PATENTABLE TO THE LOSING PARTY OF THE INTERFERENCE.

Where in an interference between P. and L. priority is awarded to L., a patentee, and thereafter P. presents claims not materially different from the issues of the interference, *Held* that P. is not entitled to the claims.

Mr. W. B. Morton for the appellant.

Mr. T. A. Hostetler for the Commissioner of Patents.

VAN ORSDEL, *J.:*

The Commissioner of Patents rejected the claims in issue, for the reason that they are not patentable over the counts of an interference in which appellant was defeated. From the decision of the Commissioner this appeal was taken.

It appears that a patent was issued to one Le Roy. Thereafter appellant filed the present application copying seven claims from the Le Roy patent. Five of the claims were canceled, and an interference was declared between appellant and Le Roy with respect to the other two claims. In the interference appellant took no testimony, but relied upon an earlier application. Le Roy prevailed and was awarded priority.

After careful examination we have reached the conclusion that the tribunals below were right in holding that the appealed claims, though couched in different language, are not materially different from the claims upon which Le Roy was awarded priority. Appellant, therefore, is not entitled to claims which are covered in terms by the invention to which Le Roy has been awarded priority.

The decision of the Commissioner is affirmed.

U. S. Circuit Court of Appeals—Eighth Circuit.

FORE ELECTRICAL MFG. CO. ET AL. *v.* ST. LOUIS ELECTRICAL WORKS ET AL.

Decided March 25, 1922.

[280 Fed. Rep., 49.]

1. PATENTS—NO. 1,239,249, FOR IMPROVEMENT IN RECTIFIERS OF ALTERNATING CURRENT, NOT INFRINGED.

The Ballman patent, No. 1,239,249, for an improvement in rectifiers of an alternating electric current, *Held* not infringed by the device covered by the Wehmeier patent, No. 1,247,759, the proof not showing that the means and manner of accomplishing the result are equivalents, or the mode of operation the same.

2. SAME—PRESUMED VALID, AND BURDEN ON PLAINTIFF TO SHOW INVALIDITY OF DEFENDANT'S PATENT CLAIMED TO INFRINGE.

In a suit for infringement of a patent by a device manufactured under a subsequent patent, defendant's patent is presumptively valid and noninfringing, and the burden is on plaintiff's to overcome the presumption.

APPEAL from the District Court of the United States for the Eastern District of Missouri; Charles B. Faris, judge.

Suit by the St. Louis Electrical Works and others against the Fore Electrical Manufacturing Company and others. From a decree for plaintiffs (287 Fed., 440), defendants appeal. Reversed, with directions.

Mr. Rodney Bedell and *Mr. F. R. Cornwall* for the appellants.

Mr. John H. Bruninga for the appellees.

Before LEWIS, Circuit Judge, and TRIEBER and POLLOCK, District Judges.

LEWIS, *Cir J.:*

[1] Each of the parties held a patent for improvement in rectifiers of an alternating electric current, Ballman's 1,239,249 belongs to appellees, plaintiff below, and is an earlier issue than Wehmeier's 1,247,759, which is owned by appellants, defendants below. Neither was a pioneer. The selection and storage of a unidirectional current from an alternating current called rectification, was old in the electrical art. Ballman's application was first, but Wehmeier's had been pending and under consideration by the Examiner in the Patent Office for more than a year before Ballman's patent issued. The beneficial purpose of the structure is the charging of a battery, and the like, but the patented improvement in each related only to means to be employed in closing and opening the contacts with a vibratory switch, so that the selected impulse would pass through the battery and the contrary impulse would be cut out. Each made and sold rectifiers having the improvement called for in the respective patents, but the appellees claim that the improvements in the two are equivalents structurally, mechanically, electrically, and functionally, that they operate in the same way and achieve the same result, and the difference between the two, if any, is only colorable. On this they sued for and obtained a decree for an injunction, on the ground of infringement; from which this appeal.

Points common to both, about which there is no controversy, are these: The means used by both to close the switch on the contacts, thus letting the selected impulse of the alternating current through the battery, is magnetism; and as this magnetic force is withdrawn or sufficiently reduced, the switch opens on its spring and the contacts through which the selected impulse passes through the battery are released, thus excluding the opposite current impulse. The switch is pivoted at one end and carries an armature intermediate its ends, positioned to complete the magnetic circuit, thus raising the switch against the tension of its spring and closing the contacts at the open end, as desired. Also, the means used by each to close the switch

requires both a permanent magnet and an electromagnet.

There is quite a difference between the patents in the physical relation of the electromagnet to the permanent magnet, and to the switching armature. Another physical difference is in the shape of the permanent magnet. The differences are these—to make up Ballman's rectifier, take a magnet of the common horseshoe type, shorten one leg, bend the short leg at a right angle directly toward the long leg, leaving an air gap or open space between the end of the bent leg and the long leg. This is Ballman's permanent magnet. Fasten a soft iron core, placed parallel to the long leg, to the bent leg immediately under the angle, and around the core an alternating-current winding. This is Ballman's electromagnet. To make up Wehmeier's rectifier, take a magnet of the common horseshoe type, its legs of equal length and unchanged in shape. This is Wehmeier's permanent magnet. Place a soft-iron core between the legs of the permanent magnet, near their ends or poles, and around the core an alternating-current winding. This is Wehmeier's electromagnet.

We pass now from differences in structure to the question as to whether there be difference in operation or function of the two devices. These accepted facts will be borne in mind. The alternating-current winding around the soft-iron core in each device sets up an impulse in the electromagnet, first in one direction and then in the opposite, changing in impulse with the alternating current, and if both impulses are permitted to pass into the permanent magnet the latter will cease to function, because magnetic flux continues in one direction, presumably from pole to pole and around the yoke of the magnet, thus closing the circuit. Ballman knew the field was narrow. He says so in his specification, and states the problem which he was attempting to solve thus:

> Vibrating rectifiers, as now constructed, utilize a magnet of constant polarity, and provided with an alternating current winding for superimposing on the constant flux an alternating flux which is in step with the current to be rectified. There are two general types of these rectifiers. In one of these types the constant flux is set up by a direct current winding in circuit with the battery to be charged, the magnet core being, in this case, of soft iron. This construction is, however, open to the objection that, where the battery to be charged has not a sufficient residual charge to effect the alternating flux sufficiently to produce synchronous operation in the proper direction the battery is liable to receive current in the wrong direction. In another type, the magnet is a permanent magnet and the constant flux is set up by the permanent magnetism. While this construction obviates the objection to the battery excited magnet construction, the passage of that component of an alternating flux which is opposite to the permanent flux, through the entire magnetic circuit of the permanent magnet will tend to demagnetise this permanent magnet and, therefore, vary the value of the constant flux and affect the permanency of the magnet.
>
> Some of the objects of this invention therefore are, to construct a rectifier system which is permanent and uniform in its action, which is arranged to be connected to the direct current load without liability of a reversal of current, which has a wide range of frequency, and in which the sparking is reduced to a minimum.
>
> Other objects are, to provide a rectifier which is simple in construction, effective in its operation, and cheap to manufacture.

With this in mind he attempted to preserve his permanent magnet and operate the switch with a small part of the main magnetic flux, plus the alternating flux in the electromagnet. So that the theory of his patent, confirmed and fortified by expert testimony, is that the main path of the permanent magnetic flux is around the yoke of his magnet, down the long leg to and across the air gap to the short leg, but that owing to the resistance of the air gap a small part of this flux continues down the long leg, through the armature and up the electromagnet. This he denominates a leakage or shunt path of the magnetic flux of the permanent magnet. It is not of sufficient attractive force to close the switch on the contacts until a flux passing in the same direction is set up in the electromagnet, and thus with the alternating impulse of that flux the switch closes and then opens on its spring. It thus appears to us that the switch is chiefly operated by the electromagnet. Whereas, the theory of Wehmeier's patent, confirmed and fortified by expert testimony, is that there is no shunt or leakage path in his device and that the switch is operated wholly by the flux of his permanent magnet, that the soft-iron core between the legs of his magnet, and near their ends, is a bridge or path for the flux of the permanent magnet, although he concedes that a part of that flux passes down to the end of the leg, through the armature and up the other leg, but claims that when an impulse is set up in the electromagnet in opposition to the flux in the permanent magnet, its resistance on the bridge to the flux of the permanet magnet causes the permanent magnetic flux to pass down the leg and through the armature, thus closing the switch with the flux of the permanent magnet, and that the electromagnetic flux does not cooperate in attracting the switching armature, except as it is utilized to cause the permanent magnetic flux to perform that function. On this point Wehmeier's claims call for means (electromagnet) for diverting the magnetic circuit of the permanent magnet or varying the path of the magnetic field of the permanent magnet relative to the vibratory switch. On the subject of equivalents and differences that are merely colorable, this court, in *James Heekin Co.* v. *Baker*, (138 Fed., 63, 70 C. C. A., 559,) said:

> Identity of result is, however, not a sufficient test of infringement. There must also be substantial identity of the means and manner of its accomplishment. The appellant's invention being obviously not a pioneer, but only an improvement upon the prior art, its claims cannot be given a liberal interpretation; but there is yet a right to a reasonable range of equivalents, measured by the character and extent of the improvement, and infringement cannot be avoided by mere colorable modifications of some of its elements, not essentially varying its principle or mode of operation.

And again, this court held in *Sander* v. *Rose*, 121 Fed., 835, 58 C. C. A., 171:

> When two inventors have each adopted the substantial features or elements of an earlier invention making, respectively, but slight changes in or improvements upon the earlier device, each will be limited to his own specific form of device; and, if there are differences therein, neither device will be held to be an infringement of the other.

[2] Presumptively, appellants' patent is valid, and does not infringe (*Boyd* v. *Tool Co.*, 158 U. S. 260; 15 Sup. Ct., 837; 39 L. Ed., 973), and the burden was on the appellees to overcome that presumption. Expert witnesses for the two parties seem equally competent and well informed,—for appellees that

the two devices are in every way equivalents, for appellants that they are not so in any respect. We are not convinced that the means and manner of accomplishing the result are equivalents, nor that the mode of operation of the two does not vary in principle, under the proof adduced; but rather that there is material difference, structurally and functionally, in the two devices.

Reversed with directions to dismiss the suit at appellees' costs.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

820,026, C. F. Stokes, Splint stretchers, suit filed Dec. 27, 1919, U. S. D. C., W. D. N. Y., Doc. 275–B, *Kny-Scheerer Corp. of America* v. *Hard Mfg. Co.* Decree granted by consent.

933,231, C. E. Cleveland, Log-handling mechanism, suit filed Aug. 29, 1922, U. S. D. C., D. Oreg., Doc. E. 8615, *D. J. Murray Mfg. Co.* v. *Sumner Iron Works et al.*

958,478, W. E. Davey, Process of reinforcing trees, suit filed Sept. 1, 1922, U. S. D. C., S. D. Ill., Doc. 236, *The Davey Tree Expert Co.* v. *L. J. Wright.* Same, suit filed Aug. 4, 1922, U. S. D. C., N. D. Ill., Doc. 2911, *Davey Tree Expert Co.* v. *T. J. Lynch.* Same, suit filed Sept. 7, 1922, U. S. D. C., S. D. Iowa, Doc. 4200 Eq., *The Davey Tree Expert Co.* v. *G. E. Henderson.* Same, suit filed Sept. 9, 1922, U. S. D. C., N. D. N. Y., Doc. 396, *The Davey Tree Expert Co.* v. *J. McCabe.*

1,038,982. (See 1,304,671.)

1,168,945, J. L. G. Lehman, Foldable cuff, suit filed Sept. 5, 1922, U. S. D. C., D. Colo., Doc. 7400, *J. L. G. Lehman* v. *G. A. Ripley et al.*

1,304,671, E. D. Fieux and H. S. Wheller, Air propellers; 1,038,982, P. Starke, Tramway track, suit under sec. 4918, R. S., filed Dec. 10, 1921, U. S. D. C., D. Mass., Doc. 165 Eq., *L. J. Wing Mfg. Co.* v. *Coppus Engineering & Equipment Co.* Consent decree dismissing bill entered Aug. 19, 1922.

1,329,889, W. H. Edsall and F. L. O. Lathrop, Drapery carrier, suit filed Sept. 1, 1922, U. S. D. C., S. D. N. Y., Doc. E. 24–266, *H. L. Judd Co.* v. *Gould-Merseseau Co.*

1,354,396, H. E. Hoenig, Fastening devices, suit filed Sept. 2, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 775, *The Everready Porcelain Co. et al.* v. *The Adamant Porcelain Co.*

1,357,101, T. Le Vora, Gasolene renovator, suit filed Apr. 2, 1921, U. S. D. C., S. D. Iowa, Doc. 4146 Eq., *T. Le Vora et al.* v. *The Allison Mfg. Co.* Dismissed June 17, 1922.

1,370,411, F. Contrado, H. R. Swanson, E. M. Schwartz, Mattress-filling machines, suit filed Aug. 31, 1922, U. S. D. C., D. Mass., Doc. 1757 Eq., *Commonwealth Sheet Metal Works, Inc.* v. *R. E. Emerson et al.*

T. M. 22,406, 47,189, The Coca-Cola Co., Nutrient or tonic beverages, suit filed Aug. 31, 1922, U. S. D. C., M. D. Pa., Doc. 338, *The Coca-Cola Co.* v. *Fox & Moser (Fox Bottling Works).*

T. M. 47,189. (See T. M. 22,406.)

T. M. 124,730, B. B. & R. Knight, Cotton piece goods (sheetings and shirtings), suit filed Sept. 6, 1922, U. S. D. C., N. D. Ohio (W. Div.), Doc. 333 Eq., *B. B. & R. Knight, Inc., et al.* v. *The W. L. Milner Co.*

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., Sept. 12, 1922.

Penn Textile Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Kohn, Adler & Co., 720 Market Street, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered November 29, 1921, No. 148,915, to Penn Textile Company, 102 Fifth Avenue, New York, N. Y., and a notice of such declaration sent by registered mail to said Penn Textile Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Penn Textile Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., Sept. 12, 1922.

H. M. Miller & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Kohn, Adler & Co., 720 Market Street, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered April 20, 1897, No. 29,877, to H. M. Miller & Co., 1023 Filbert Street, Philadelphia, Pa., and a notice of such declaration sent by registered mail to said H. M. Miller & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said H. M. Miller & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Disclaimer.

1,302,307.—*George Campbell Carson*, San Francisco, Calif. CONSTRUCTION OF ROOF OF OPEN-HEARTH AND REVERBERATORY FURNACES. Patent dated April 29, 1919. Disclaimer filed September 15, 1922, by the patentee.

Hereby makes disclaimer to such interpretation of the word "ores," which appears in claims two (2) and three (3) of said Letters Patent as would make it include silica or silicious ores used as fettling material, said word "ores" to have its usual accepted meaning of smelting ores.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF SEPTEMBER, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aborn, George P., Brookline, Mass., assignor to Worthington Pump and Machinery Corporation. Engine valve. No. 1,427,767; Sept. 5.

Ace Magneto Company, The. (See Putt, Harlie O., assignor.)

Ackley, Fred D., Kirkland, Wash. Carburetor. No. 1,428,200; Sept. 5.

Adams, Dickson, Canton, Ohio. Collapsible crate or box. No. 1,427,766; Sept. 5.

Adams, Joseph H., Flatbush, N. Y., assignor to The Texas Company, Houston, Tex. Oil-converting process for the conversion and transformation of oils. No. 1,428,311; Sept. 5.

Adams, Joseph H., Flatbush, N. Y., assignor to The Texas Company, Houston, Tex. Oil-converting apparatus for the conversion and transformation of oils. No. 1,428,312; Sept. 5.

Aermotor Company. (See Scholes, Daniel R., assignor.)

Affel, Herman A. (See Espenschied, L., and Affel.)

Aiken, Edward L., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Gear wheel. No. 1,427,892; Sept. 5.

Albaugh-Dover Company. (See Eden, Harold W., assignor.)

Alexander, Jesse W., Birmingham, Ala. Machine for making cement roofing tile. No. 1,428,351; Sept. 5.

Allen, George L., Detroit, Mich. Cushion wheel. No. 1,427,995; Sept 5.

Almen-Crosby Motors Co. (See Almen, John O., assignor.) (Reissue.)

Almen, John O., assignor to Almen-Crosby Motors Co., Inc., Seattle, Wash. Internal-combustion engine. (Reissue.) No. 15,442; Sept. 5.

Altschuler, Joseph, Los Angeles, Calif., assignor to Keyograph Corporation. Film-numbering machine. No. 1,428,352; Sept. 5.

American Creosoting Company. (See Cook, J. C., and Austin, assignors.)

American Optical Company. (See Maynard, Albert E., assignor.)

American Sheet and Tin Plate Company. (See Haarbye, S. B., and McIlvried, assignors.)

American Standard Tool Company. (See Wiard, Frederick, assignor.)

American Telephone and Telegraph Company. (See Espenschied, L., and Affel, assignors.)

American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)

American Telephone and Telegraph Company. (See Toomey, J. F., and Loynes, assignors.)

Ames, Chester R. (See Forbess, W. A., and Ames.)

Anaconda Copper Mining Company. (See Laist, F., and Jones, assignors.)

Anaconda Copper Mining Company. (See Laist, F., Frick, Klepetko, and Davidson, assignors.)

Andersen, Christian F., and J. R. Mitchell, Jacksonville, Ill. Dirigible auto headlight. No. 1,428,353; Sept. 5.

Anderson, Ralph, assignor of one-half to H. D. Rominger, Fresno, Calif. Oiling system for gasoline engines. No. 1,427,768; Sept. 5.

Andrews, Charles G., Denver, Colo. Air and steam bag for vulcanisers. No. 1,428,201; Sept. 5.

Andrews, Stephen, New York, N. Y. Armor for tires. No. 1,428,467; Sept. 5.

Anniston Electric Steel Corporation. (See Coleman, William R., assignor.)

Anthony, Marcus O., New York, N. Y., assignor to H. S. Sampliner, Cleveland, Ohio. Weaving frame. No. 1,427,769; Sept. 5.

Armstrong, Sir W. G., Whitworth and Company. (See Lee, H. W., and Swindale, assignors.)

Arndt, Franklin E., assignor to The Galion Iron Works and Manufacturing Company, Galion, Ohio. Steering gear for road machines. (Reissue.) No. 15,443; Sept. 5.

Arndt, Maximillion M., Manitowoc, Wis. Posthole digger. No. 1,428,202; Sept. 5.

Arntz, Lew, Des Moines, Iowa. Eyeglass mounting. No. 1,427,996; Sept. 5.

Arrow Grip Manufacturing Company. (See Griffin, Albert P., assignor.) (Reissue.)

Asbury, Dorsey F., Washington, D. C. Fuse. No. 1,428,203; Sept. 5.

Ashbee, Claude N. (See Eldridge, J. E., Burgess, W. B. and C. E., and Ashbee.)

Ashley, Frank M. (See Trust, H., and Ashley.)

Austin, Basil G., assignor to Austin Organ Company, Hartford, Conn. Electropneumatic organ action. No. 1,427,997; Sept. 5.

Austin, Harold E. (See Cook, J. C., and Austin.)

Austin, Henry K., Reading, Mass. Soldering-tool. No. 1,427,770; Sept. 5.

Austin Organ Company. (See Austin, Basil G., assignor.)

Automatic Seating Company. (See Erickson, John E., assignor.)

Ayers, Guy, Libertyville, Ill. Wrench. No. 1,428,466; Sept. 5.

Babcock & Wilcox Company, The. (See Wood, Benjamin F., assignor.)

Babcock, Harry D., Tacoma, Wash. Plate-tightening device. No. 1,427,893; Sept. 5.

Bailey, Clifford E., Cromwell, assignor to The Stanley Works, New Britain, Conn. Spring hinge. No. 1,427,929; Sept. 5.

Baker, Orville W., Indianapolis, Ind. Piston construction. No. 1,427,930; Sept. 5.

Balder, Anton W., Pittsburg, assignor of one-fourth to M. W. Dunn, Oakland, Calif. Trunk. No. 1,428,313; Sept. 5.

Balfour, John W. B., London, England. Burner. No. 1,428,129; Sept. 5.

Ball, Guy M., Spokane, Wash. Parachute vent. No. 1,427,771; Sept. 5.

Ball, Guy M., Spokane, Wash. Fabric structure for parachutes and aerostats and constructing the same. No. 1,427,772; Sept. 5.

Bancroft, James L., assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Automobile body construction. No. 1,427,894; Sept. 5.

Banshaf, Albert H. T. (See Uebelmesser, Charles, assignor.)

Barber, Allan J., Woonsocket, R. I. Game board. No. 1,428,411; Sept. 5.

Barnaby, Charles W., New York, N. Y. Typewriter. No. 1,428,130; Sept. 5.

Barnes, John L., Whigville, Ohio. Derrick. No. 1,428,314; Sept. 5.

Barnickel, William S., St. Louis, Mo. Apparatus for treating natural emulsions of petroleum. No. 1,428,204; Sept. 5.

Barrett Company, The. (See Swenson, George E., assignor.)

Barrett, Thomas, assignor of one-twentieth to W. M. Murphy, Pasadena, Calif. Airship. No. 1,427,998; Sept. 5.

Barrett, William J., Bridgeport, Conn. Deflection indicator. No. 1,427,773; Sept. 6.

Barry, Philip D., Miami, Ariz. Oil trap and heating device. No. 1,428,205; Sept. 5.

Barth, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,428,131; Sept. 5.

Bartlett, Kent W., Hammond, Ind. Mixing apparatus. No. 1,428,315; Sept. 5.

Bass, E. & J., Incorporated. (See Negbaur, Harry, assignor.)

Bassett, Preston R., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Concentrated flaming arc lamp for projectors. No. 1,428,510; Sept. 5.

Bassford, William K., Metuchen, N. J. Safety device for oil heaters and lamps. No. 1,428,132; Sept. 6.

Batla, Thomas H., and H. J. Holan, Temple, Tex. Cotton-stalk cutter and insect killer. No. 1,427,931; Sept. 5.

Bauer, Carl E., Hammond, Ind. Fulcrum and making the same. No. 1,427,932; Sept. 5.

Baxter, Ernest H., Chicago, Ill. Transmission lock. No. 1,428,316; Sept. 5.

Beauchamp, Arthur W., and E. C. Davidson, Sandgate, Queensland, Australia. Internal-combustion engine. No. 1,428,412; Sept. 5.

Bell, Harvey W., Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del. Vehicle suspension. No. 1,427,933; Sept. 5.

Bell, Henry V., Elmhurst, Flushing, N. Y. Combination circuit controller. No. 1,428,413; Sept. 5.

Bell, Raymond T., Chicago, Ill. Pencil. No. 1,427,999; Sept. 5.

Bell, Thomas W., Portland, Oreg. Locking mechanism. No. 1,427,934; Sept. 5.

Beloyt Corporation, The. (See Bell, Harvey W., assignor.)

Benjamin Eastwood Company. (See Wells, William S., assignor.)
Benjamin Eastwood Company. (See Zeedyk, William, assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse plug. No. 1,427,895; Sept. 5.
Benner, Henry W., Bethlehem, Pa. Antirattler. No. 1,427,774; Sept. 5.
Bens, Samuel J., Herkimer, N. Y. Baby carriage. No. 1,428,000; Sept. 5.
Bentley, Anson J., Niles, Ohio. Ice-making apparatus. No. 1,427,935; Sept. 5.
Bentley, Anson J., Niles, Ohio. Freezing can. No. 1,427,936; Sept. 5.
Bentley, Anson J., Niles, Ohio. Freezing can. No. 1,427,937; Sept. 5.
Bentley, Anson J., Niles, Ohio. Freezing can. No. 1,427,938; Sept. 5.
Benton, John W., Harlowe, New South Wales, Australia. Educational device. No. 1,428,206; Sept. 5.
Bernard, Pierre J. H., Montreal, Quebec, Canada. Electric heater. No. 1,428,071; Sept. 5.
Bernbaum, John W., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-line construction. No. 1,428,354; Sept. 5.
Best, John H., Edmond, Kans. Wire stretcher. No. 1,428,414; Sept. 5.
Betts Sole Protector Company. (See Betts, William H., assignor.)
Betts, William H., assignor to Betts Sole Protector Company, St. Louis, Mo. Sole protector. No. 1,428,072; Sept. 5.
Biddle, Arthur, Trenton, N. J., assignor to United Products Corporation of America. Fire-extinguishing composition. No. 1,428,207; Sept. 5.
Bienvenüe, Joseph. (See Bienvenüe, René and J.)
Bienvenüe, René and J., Paris, France. Current collector for railway vehicles. No. 1,428,133; Sept. 5.
Billon, Frederic, Solothurn, Switzerland. Electric ignition apparatus. No. 1,428,134; Sept. 5.
Billis, Alexander, Homestead, Oreg. Portable reciprocating saw machine. No. 1,428,208; Sept. 5.
Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Plaster board. No. 1,427,939; Sept. 5.
Birosh, John W., Brownsville, Pa. Safety device for aeroplanes. No. 1,428,135; Sept. 5.
Black, Alvin L., Alto, Tex. Amusement device. No. 1,427,775; Sept. 5.
Blake, Charles C., Brookline, Mass. Sole-pressing machine. No. 1,427,940; Sept. 5.
Blathy, Otto T., Budapest, Hungary. Adjusting electric meters. No. 1,427,776; Sept. 5.
Blenio, Guido, assignor, by mesne assignments, to Blenio Paint & Products Corporation, New York, N. Y. Aeroplane element and making same and product of said process. No. 1,427,941; Sept. 5.
Blenio Paint & Products Corporation. (See Blenio, Guido, assignor.)
Blinn, Clarence E. and G. W., Christie, Vancouver, Wash. Automobile signal. No. 1,428,136; Sept. 5.
Blount, Harry, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for lapping diamond dies. No. 1,428,209; Sept. 5.
Blowers, Alonzo S., Portland, Ind. Slidable work support. No. 1,427,777; Sept. 5.
Boche, Otto W., Bridgeport, Conn. Roller skate and wheel therefor. No. 1,428,210; Sept. 5.
Bolenbaugh, Burton R., and R. S. and L. W. Long, Jackson, Mich., assignors of one-third to said Burton R., C., and R. S. Bolenbaugh, one-sixth to said Long, one-sixth to A. Paulson, New York, N. Y., one-sixth to H. H. Keeler, Ann Arbor, Mich, and one-sixth to L. H. Flynn, Albany, N. Y. Wheel construction. No. 1,428,468; Sept. 5.
Bolenbaugh, Cyrus. (See Bolenbaugh, Burton R., C., R. S., and Long.)
Bolenbaugh, Ray S. (See Bolenbaugh, Burton R., C., and R. S., and Long.)
Bolger, Robert S., Richmond Hill, N. Y. Method of and machine for manufacturing paper barrels. No. 1,428,469; Sept. 5.
Bomborn, Bernhard. (See Hoffmann, A., and Bomborn.)
Bookhout, James R. (See Bookhout, John J. and J. R.)
Bookhout, John J. and J. R., Dallas, Tex. Multiple-cutter drill bit. No. 1,428,137; Sept. 5.
Bookhout, John J., et al. (See Smith, Primus W., assignor.)
Borden, Libbie, Spokane, Wash. Refrigerator. No. 1,428,073; Sept. 5.
Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Knitting machine. No. 1,428,317; Sept. 5.
Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Mechanism for knitting gloves. No. 1,428,318; Sept. 5.
Brabant, Charles C., Detroit, Mich. Window ventilator. No. 1,428,074; Sept. 5.
Bradburn, Charles F. (See Mercer, F. B. M., and Bradburn.)
Bradford, Charles M., Boston, and R. C. Simmons, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe-shaping machine. No. 1,427,778; Sept. 5.
Bradley, Ross E., Roland Park, Md. Method and means for tube cutting. No. 1,428,355; Sept. 5.
Bradshaw, Charles E., Waterbury, Conn. Buckle. No. 1,428,211; Sept. 5.
Brainerd, Edward R., Los Angeles, Calif. Wall construction. No. 1,428,470; Sept. 5.
Brannan, John W., Grand Island, Nebr. Road drag or grading machine. No. 1,428,319; Sept. 5.
Braun, Carl F., San Francisco, Calif. Twin strainer. No. 1,428,270; Sept. 5.
Breckenridge, David, Victoria, British Columbia, Canada. Thread-cutting tool and holder therefor. No. 1,428,075; Sept. 5.
Breitner, Melchior, Halle-on-the-Saale, Germany. Distributing board for electric house installations. No. 1,427,779; Sept. 5.
Brennan, John S., Milwaukee, Wis. Burner drum. No. 1,428,212; Sept. 5.
Brennan, William J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for beveling edges of buttonholes. No. 1,427,780; Sept. 5.
Brenzinger, Julius, Fairfield, Conn., assignor to The Max Ams Machine Company, New York, N. Y. Can-body-forming machine. No. 1,427,896; Sept. 5.
Broatch, George N., Moose Jaw, Saskatchewan, Canada. Pipe. No. 1,427,781; Sept. 5.
Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tying device. No. 1,427,782; Sept. 5.
Brooks, Charles D., Brooklyn, N. Y. Composite structure. No. 1,428,320; Sept. 5.
Brossoit, James J., Salt Lake City, Utah. Drill bit. No. 1,428,415; Sept. 5.
Brown & Bigelow. (See Welcker, Paul H., assignor.)
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship; L. Brown and A. Graydon, trustees. Magazine and magazine attachment for kinetographs. No. 1,428,138; Sept. 5.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship; L. Brown and A. Graydon, trustees. Picture studio. No. 1,428,139; Sept. 5.
Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship; L. Brown and A. Graydon, trustees. Construction for motion-picture cameras or the like. No. 1,428,321; Sept. 5.
Brown, Max, Brookline, Mass. Vulcanized sole. No. 1,428,356; Sept. 5.
Buck, Charles P., Topeka, Kans. Machine for bending angle iron. No. 1,428,001; Sept. 5.
Buckeye Twist Drill Company, The. (See Meyers, John F., assignor.)
Buckeye Twist Drill Company, The. (See Muiac, Anthony A., assignor.)
Buckminster, Ira C. (See Hadaway, J. B., and Buckminster.)
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Buedingen, William L., Milwaukee, Wis. Tray support for boxes. No. 1,428,500; Sept. 5.
Buffalo Specialty Company. (See Shickluna, Joseph J., assignor.)
Buffum, Frank W. (See Price, Stephen C., assignor.)
Buhr, Joseph F., Detroit, Mich. Drill head for drilling machines. No. 1,428,002; Sept. 5.
Bullard, Frederick H., Springfield, Mass. Plier-joint construction. No. 1,428,357; Sept. 5.
Burbery, Walter J., Los Angeles, Calif. Fastener. No. 1,428,358; Sept. 5.
Burgess, Charles E. (See Eldridge, J. E., W. B. and C. E. Burgess, and Ashbee.)
Burgess, William B. (See Eldridge, J. E., Burgess, W. B. and C. E., and Ashbee.)
Burke Electric Company. (See Burke, James, assignor.)
Burke, James, assignor to Burke Electric Company, Erie, Pa. Air-cooled transformer. No. 1,427,783; Sept. 5.
Burns, Edward A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,213; Sept. 5.
Büschmann, Theodor E., Chemnitz-Kappel, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke Aktiengesellschaft, Schonau B. Chemnitz, Germany. Tabulator bar of typewriter tabulators. No. 1,428,140; Sept. 5.
Büschmann, Theodor E., Chemnitz-Kappel, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke Aktiengesellschaft, Schonau B. Chemnitz, Germany. Method and apparatus for fixing slotback types upon the type levers of typewriters. No. 1,428,141; Sept. 5.
Busse, Edwin G., and A. W. Hawkins, assignors to Chicago Railway Equipment Company, Chicago, Ill. Third or fourth point support bracket for brake rigging. No. 1,428,214; Sept. 5.
Butler, Arthur C., Boston, Mass. Drawing mechanism. No. 1,428,271; Sept. 5.
Butler, Frank M., Elko, Nev. Valve-spring lifter. No. 1,428,471; Sept. 5.
C & C Developing Company. (See Colvin, Cadet M., assignor.)
Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,215; Sept. 5.
Camward Engineering Co. (See Howard, John A., sr., assignor.)
Canda, Ferdinand M., New York, N. Y. Roll for rolling mills. No. 1,428,142; Sept. 5.

Carborundum Company, The. (See Hutchins, Otis, assignor.)
Carborundum Company. (See Power, Henry R., assignor.)
Case, J. I., Threshing Machine Company. (See Crawford, John F., assignor.)
Cato, Joseph L., Elmhurst, N. Y., assignor to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Fuselage construction for aeroplanes. No. 1,428,143; Sept. 5.
Caye, Fred L., Detroit, Minn. Loading apparatus. No. 1,428,472; Sept. 5.
Chambers, Mack and Y. W., East St. Louis, Ill. Bandit trap. No. 1,428,003; Sept. 5.
Chambers, Yancy W. (See Chambers, Mack and Y. W.)
Chase, Samuel H., Madison, Wis. Scarecrow. No. 1,428,216; Sept. 5.
Cheesman, Frederic E., Brooklyn, N. Y. Air-check device. No. 1,428,145; Sept. 5.
Chemical Foundation, Inc., The. (See Classen, Alexander, assignor.)
Chemical Foundation, Inc., The. (See Minck, Paul H., assignor.)
Chemical Foundation, Inc., The. (See Schröder, Edmund, assignor.)
Chemical Foundation, Inc. (See Wolff, Albert, assignor.)
Chew, Leuig, and W. F. Jennings, London, England. Compression pump. No. 1,428,473; Sept. 5.
Chicago-Cleveland Car Roofing Company. (See Bernbaum, John W., assignor.)
Chicago-Cleveland Car Roofing Company. (See Tesseyman, J. E., and Russell, assignors.)
Chicago Electric Sign Company. (See Knauber, Alexander M., assignor.)
Chicago Railway Equipment Company. (See Busse, E. G., and Hawkins, assignors.)
Chicago Railway Equipment Company. (See Van Sweringen, George N., assignor.)
Chiquette, Rene. (See Paradis, Joseph F., assignor.)
Christianson, Arnold, Detroit, Mich. Sand mold and apparatus for making it. No. 1,428,359; Sept. 5.
Christie, Evi W., Sewaren, N. J. Internal-combustion motor. No. 1,428,322; Sept. 5.
Christie, George W. (See Blinn, C. E., and Christie.)
Clark, Albert A., assignor to The Will-Burt Company, Orrville, Ohio. Truck. No. 1,428,004; Sept. 5.
Clark, Harry A., Detroit, Mich. Pencil holder. No. 1,428,076; Sept. 5.
Clark, Harry A., Detroit, Mich. Pencil. No. 1,428,077; Sept. 5.
Clark, Harry A., Detroit, Mich. Railway tie and fastener. No. 1,428,078; Sept. 5.
Clark, Thad, Americus, Ga. Pen. No. 1,428,079; Sept. 5.
Clarke, Harry D. (See Zubars, B. C., and Clarke.)
Classen, Alexander, Aachen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Obtaining sugars from substances containing cellulose. No. 1,428,217; Sept. 5.
Clefton, Claud J., assignor to The Clefton Company, Owatonna, Minn. Stove burner. No. 1,428,146; Sept. 5.
Clefton Company, The. (See Clefton, Claud J., assignor.)
Clevenger, David M., Reeds, Mo. Harrow. No. 1,428,360; Sept. 5.
Coleman, William R., Birmingham, Ala., assignor to Anniston Electric Steel Corporation. Car-dumping apparatus. No. 1,428,005; Sept. 5.
Collings, William A., Kansas City, Mo. Coating composition and producing the same. No. 1,428,272; Sept. 5.
Collings, William A., Kansas City, Mo. Paint vehicle. No. 1,428,273; Sept. 5.
Colvin, Cadet M., assignor to C & C Developing Company, Kansas City, Mo. Compensating device for reaction tubes. No. 1,428,323; Sept. 5.
Conway, John W., Hartford, Conn. Automobile step. No. 1,428,006; Sept. 5.
Cook, Jesse C., Jeffersonville, Ind., and H. E. Austin, assignors to American Creosoting Company, Louisville, Ky. Bail for timber cars. No. 1,428,474; Sept. 5.
Cook, Richard, New York, N. Y. Rat trap. No. 1,427,784; Sept. 5.
Coolidge, Guy C., Seattle, Wash. Milk pail. No. 1,428,475; Sept. 5.
Cooper, Ellis W., New York, N. Y. Printing press. No. 1,428,080; Sept. 5.
Cooper, Simon, Brooklyn, N. Y., assignor to Speedaumatic Company, Feeding mechanism. No. 1,428,324; Sept. 5.
Corbe, Israel, Cleveland, Ohio. Trousers stretcher and presser. No. 1,428,274; Sept. 5.
Corey, Elmer O., Norwood, Ohio. Forcer steam valve. No. 1,428,144; Sept. 5.
Cossutta, Ferruccio, Trieste, Italy. Hull construction for submarine and like vessels. No. 1,428,218; Sept. 5.
Coston, Harry W., Port Elisabeth, Cape Province, South Africa. Railway coupling. No. 1,427,942; Sept. 5.
Cox, Abram, Stove Company. (See Mott, Abram C., jr., assignor.)
Craig, David, Peabody, Mass., assignor of one-half to C. H. Lovsey, Pittsburgh, Pa. Roof. No. 1,427,943; Sept. 5.
Craig, Richard M., San Antonio, Tex. Animated sign. No. 1,428,007; Sept. 5.
Craig, Richard M., San Antonio, Tex. Method of and apparatus for producing transformation effects. No. 1,428,008; Sept. 5.
Crawford, Frank, sr., assignor to The Crawford Manufacturing Company, New Brunswick, N. J. Stop-motion brake attachment. No. 1,428,416; Sept. 5.
Crawford, John F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Gear-making machine. No. 1,428,219; Sept. 5.
Crawford Manufacturing Company, The. (See Crawford, Frank, sr., assignor.)
Crittal Casement Window Co. (See Walker, Thomas E., assignor.)
Crossan, Patrick F., assignor of one-half to W. J. Ward, Allentown, Pa. Waffle iron. No. 1,428,476; Sept. 5.
Crotto, Frank E., Dallas, Tex. Well-washing device. No. 1,427,944; Sept. 5.
Crowe, Joseph M., Brooklyn, N. Y. Preparing a rotary gravure tone and line positive. No. 1,428,009; Sept. 5.
Cuozzo, George, Bangor, Me. Mold. No. 1,427,945; Sept. 5.
Curtis & Co. Mfg. Co. (See Steedman, George F., assignor.)
Cusack, Thos., Company. (See Kelly, James J., assignor.)
Cutler-Hammer Mfg. Co., The. (See Richardson, Linwood T., assignor.)
Dahl, Gust J., Spuhn Island, Alaska. Knockdown revolving table. No. 1,428,275; Sept. 5.
Daniels, Edmund, Lahaina, Hawaii. Lock joint for centrifugal screens and forming the same. No. 1,428,010; Sept. 5.
Daniels, Paul P., Minneapolis, Minn. Wire-cutting implement. No. 1,428,276; Sept. 5.
Davidson, Edgar C. (See Beauchamp, A. W., and Davidson.)
Davidson, Joshua E., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,325; Sept. 5.
Davidson, Lyndall P. (See Laist, F., Frick, Klepetko, and Davidson.)
Davilla, Joseph J., New Orleans, La. Music-roll perforator and printer. No. 1,428,277; Sept. 5.
Davis, Benjamin F., Miami, Fla. Unit slab for building walls. No. 1,428,147; Sept. 5.
Davis, Harry G., Philadelphia, Pa. Automatic train-control device. No. 1,428,511; Sept. 5.
Davis, Merlon D., London, England. Fountain pen. No. 1,428,417; Sept. 5.
Davis, Russell K., Hartford, Conn., assignor to The Skayef Ball Bearing Company. Chuck. No. 1,427,785; Sept. 5.
Davison, Daniel E., Brooklyn, N. Y. Clothesline bracket and tray. No. 1,428,418; Sept. 5.
Day, John W. (See Day, Wallace and J. W.)
Day, Wallace and J. W., assignors of one-third to M. L. Greenstreet, Maplewood, Mo. Refrigerating apparatus. No. 1,428,361; Sept. 5.
Deaton, George H., Maywood, Ill. Record calendar. No. 1,427,786; Sept. 5.
De Cew, Judson A., Mount Vernon, N. Y. Lubricating emulsion. No. 1,428,148; Sept. 5.
Dehlin, August G., assignor of one-third to E. Nelson, Olympia, Wash. Shingle-machine spur roll ratchet. No. 1,428,362; Sept. 5.
Dehn, William M., Seattle, Wash. Increasing the sensitiveness and power of explosive compositions and product thereof. No. 1,428,011; Sept. 5.
Deléamont, Ernest, Marseille, France. Vaporizing device for heating apparatus. No. 1,428,150; Sept. 5.
Delk, George, assignor of one-half to E. F. Tschohl, South Milwaukee, Wis. Rail frog. No. 1,428,220; Sept. 5.
Del Moral, José, East Orange, N. J. Rotary steam engine. No. 1,428,477; Sept. 5.
De Martino, Joseph, assignor to J. H. Lee, trustee, Chicago, Ill. Clutch and transmission. No. 1,428,221; Sept. 5.
De Mattia, Barthold, Clifton, N. J. Making shoes or casings for pneumatic tires. No. 1,428,419; Sept. 5.
De Mattia, Barthold, Clifton, N. J. Machine for cutting and feeding tire-making fabric. No. 1,428,420; Sept. 5.
De Minico, Frank, assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Sheet-feeding mechanism. No. 1,428,149; Sept. 5.
De Stefano, Jacob, assignor of one-half to P. Rappas, Kansas City, Mo. Life-saving device for submarines. No. 1,428,012; Sept. 5.
De Wille, Anthony J., Sutersville, Pa. Lens-grinding machine. No. 1,427,787; Sept. 5.
Diakoniuk, Theodore, Edmonton, Alberta, Canada. Parachute for aeroplanes. No. 1,428,013; Sept. 5.
Diamond Products Corporation, The. (See Newell, Peter S. H., assignor.)
Dibbins, Sylvester. (See Grundig, G. E., and Dibbins.)
Dickinson, Hal, Minneapolis, Minn. Rain vision shield. No. 1,428,014; Sept. 5.
Diesner, John A., Chicago, Ill. Golf club. No. 1,428,015; Sept. 5.
Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
Dow, Herbert H., Midland, Mich., assignor to The Dow Chemical Company. Protective printing. No. 1,428,278; Sept. 5.
Dreiske, William D., Oak Park, Ill. Indicating instrument. No. 1,428,363; Sept. 5.
Drevitson, Carl E., Somerville, Mass. Connecting rod. No. 1,427,788; Sept. 5.
Drew, James S., Perth, Western Australia, Australia. Costume, garment, or like wearing apparel for bathing, swimming, or life saving. No. 1,428,151; Sept. 5.

Drew, John W., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Pump-cylinder head. No. 1,428,222; Sept. 5.
Dubey, Albert E. (See Schuler, Frank M., assignor.)
Duckham, Arthur M., London, England. Gasification of coal or other carbonaceous material. No. 1,428,421; Sept. 5.
Dudukian, Benjamin N., Syracuse, N. Y. Caliper. No. 1,428,422; Sept. 5.
Dumble, Clifford R., Arlington, assignor, by mesne assignments, to The Lamson Company, Boston, Mass. Removable label for carriers. No. 1,428,279; Sept. 5.
Dunn, Martin W. (See Balder, Anton W., assignor.)
Dunne, Everett K., Oneonta, N. Y. Field glass. No. 1,428,478; Sept. 5.
Dutchess Tool Company. (See Van Houten, Frank H., assignor.)
Dye, Carter M., Christopher, Ill. Cream separator. No. 1,428,364; Sept. 5.
Dykman, Henry J., Johannesburg, Transvaal, South Africa. Stoving paint for vehicles. No. 1,428,152; Sept. 5.
Dymnicki, Joseph, New London, Conn. Mechanical toy. No. 1,427,789; Sept. 5.
Eagan, Walter B., Chicago, Ill. Brush clamp. No. 1,428,281; Sept. 5.
Earley, James J., Brooklyn, N. Y. Toy. No. 1,427,790; Sept. 5.
Eddy, Russell H., assignor of two-thirds to H. W. Johnson, St. Paul, Minn. Shipping receptacle for cigars and other articles. No. 1,428,016; Sept. 5.
Eden, Harold W., Chicago, Ill., assignor to Albaugh-Dover Company, Washing-machine tub. No. 1,427,791; Sept. 5.
Edwards, William A., assignor of ten per cent to I. J. Wilson and one-half to C. E. Reed, Chicago, Ill. Oiling system. No. 1,428,017; Sept. 5.
Egger, Louis, Sumiswald, Switzerland. Book-sewing machine. No. 1,428,153; Sept. 5.
Elnson Litho, Incorporated. (See Gans, Albert J., assignor.)
Eldridge, James E., W. B. and C. E. Burgess, and C. N. Ashbee, Brentwood, England. Motor mower. No. 1,428,154; Sept. 5.
Elliott, William S., Pittsburgh, Pa. Barometric condenser. No. 1,427,792; Sept. 5.
Elmstrom, Anshelm B., Malden, Mass. Shoe stretcher. No. 1,428,423; Sept. 5.
Emerson, Victor L., Philadelphia, Pa. Liquid-level-controlling device for boilers or stills. No. 1,427,793; Sept. 5.
Ensign, Emory S., Rockford, Ill. Lock washer. No. 1,427,946; Sept. 5.
Erickson, John E., St. Paul, Minn., assignor to Automatic Seating Company, Superior, Wis. Automatic folding seat construction. No. 1,428,018; Sept. 5.
Ericson, Oscar A., assignor to W. W. Kimball Company, Chicago, Ill. Double-acting pneumatic motor. No. 1,427,794; Sept. 5.
Ernst, Henry G. (See Ernst, Theodore and H. G.)
Ernst, Theodore, Bayfield, and H. G., Superior, Wis. Combination convertible high chair. No. 1,427,795; Sept. 5.
Espenschied, Lloyd, Hollis, and H. A. Affel, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Means for signaling over multiplex transmission channels. No. 1,428,155; Sept. 5.
Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Low-frequency amplifier. No. 1,428,156; Sept. 5.
Every, Isabel, Hibbing, Minn. Baking utensil. No. 1,427,796; Sept. 5.
Ewald, Arno A., Aakfield, Wis. Motor-driven automatic pressure coin-controlled air station. No. 1,428,365; Sept. 5.
Fairbanks, Clarence T., Chicago, Ill. Tire stand. No. 1,428,223; Sept. 5.
Fairchild, Walter H., Evanston, Ill., assignor to Mid-West Box Company, Anderson, N. Y. Incandescent-lamp wrapper. No. 1,428,019; Sept. 5.
Falls Rubber Company, The. (See Kratz, George D., assignor.)
Farrell, A. M. (See Farrell, John J., assignor.)
Farrell, John J., Lawrence, Mass., assignor to A. M. Farrell, Philadelphia, Pa. Nut lock. No. 1,427,797; Sept. 5.
Farrington, Edward H., Madison, Wis. Butter tester. No. 1,428,020; Sept. 5.
Faucette, Beale J., Durham, N. C. Yarn-moistening attachment for knitting machines. No. 1,428,021; Sept. 5.
Faultless Rubber Company, The. (See Lower, Melvin S., assignor.)
Fay, Joseph G., assignor of eight per cent to J. K. McDowell and eight per cent to N. F. Nabhan, Seattle, Wash. Change-speed gearing. No. 1,428,320; Sept. 5.
Feeney, John M., Bridgeport, Conn. Adjustable crank. No. 1,427,798; Sept. 5.
Fehler, Otto, Berlin-Steglitz, Germany. Electric advertising sign. No. 1,428,424; Sept. 5.
Feist, Charles M., Sioux City, Iowa. Self-lubricating bearing or axle. No. 1,428,425; Sept. 5.
Feriani, Gaetano, Belluno, assignor to Societa Brevetti Feriani, Rome, Italy. Internal-combustion engine. No. 1,428,426; Sept. 5.
Fifth Avenue Corset Company. (See Leonard, Joseph, assignor.)
Finch, Nelson W., Chicago, Ill. Combined cushion and pneumatic tire. No. 1,427,897; Sept. 5.
Fish, Charles H., Rye, N. H. Crank arm. No. 1,428,366; Sept. 5.
Fish, Edward. (See Novick, A., and Fish.) (Reissue.)
Fisher, Alexander, New York, N. Y., assignor to Fisher Patents Co., Inc. Electric water heater. No. 1,428,157; Sept. 5.
Fisher, Frank E., Detroit, Mich. Engine starter. (Reissue.) No. 15,444; Sept. 5.
Fisher Patents Co. (See Fisher, Alexander, assignor.)
Fisher, William, North Tawton, England. Internal-combustion engine. No. 1,428,376; Sept. 5.
Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
Fits-Empire Double Pivot Last Company. (See Hadaway, J. B., and Buckminster, assignors.)
Flagge, Phillipp F., Green Bay, Wis., assignor to Klauer Manufacturing Company, Dubuque, Iowa. Pipe construction. No. 1,428,427; Sept. 5.
Fleck, Charles, Cleveland, Ohio. Advertising device. No 1,428,022; Sept. 5.
Flitton, Edward H., Omaha, Nebr. Case for eyeglasses. No. 1,427,947; Sept. 5.
Flynn, Lewis H., et al. (See Bolenbaugh, Burton R., C., and R. S., and Long, assignors.
Forbess, Walter A., Burlington, and Chester R. Ames, Sedro Woolley, Wash. Aligning jig. No. 1,428,224; Sept. 5.
Forlander, Morris, New York, N. Y. Jimmyproof lock. No. 1,428,367; Sept. 5.
Forister, Nelson. (See Schwarz, B. J., Forister, and Hirt.)
Foster, Walter L. (See Meredith, W., and Foster.)
Foulk, Albert C., Holton, Kans. Flexible balanced support. No. 1,427,799; Sept. 5.
Frantz Manufacturing Company. (See Frantz, Peter, assignor.)
Frantz, Peter, assignor to Frantz Manufacturing Company, Sterling, Ill. Parallel-sliding-door construction. No. 1,428,023; Sept. 5.
Frazier, Charles F., South Greenfield, Mo. Branding iron. No. 1,428,280; Sept. 5.
Frazier, Homer G., La Fayette, Ind. Auto dump body. No. 1,428,368; Sept. 5.
Fredd, Oscar M., Hancock, Mich. Method and tire-vulcanizing apparatus. No. 1,428,428; Sept. 5.
Freeman, Ray, Perrine, Fla. Chair for rail joints. No. 1,427,948; Sept. 5.
French, Charles M., Brooklyn, N. Y. Hinge. No. 1,427,800; Sept. 5.
Frick, Frederick F. (See Laist, F., Frick, Klepetko, and Davidson.)
Fried. Krupp Aktiengesellschaft. (See Barth, Karl, assignor.)
Fuchs, Johann, Appenzell, Switzerland. Rifle. No. 1,428,081; Sept. 5.
Fuermann, Walter J., Bradford, Pa. Article of jewelry. No. 1,428,158; Sept. 5.
Fulton, Robert S., Philadelphia, Pa. Shock absorber. No. 1,428,225; Sept. 5.
Furman, Samuel, Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for making window envelope blanks. No. 1,428,429; Sept. 5.
Fuxy, Paul, Sheridan, Pa. Nonrefillable-bottle cap. No. 1,428,479; Sept. 5.
Galion Iron Works and Manufacturing Company. (See Arndt, Franklin E., assignor.) (Reissue.)
Gallsworthy, Benjamin, Port Arthur, Tex. Oil-topping plant. No. 1,428,159; Sept. 5.
Gammon, Joseph P., Rochester, N. Y. Detachable pedal for accelerators. No. 1,428,082; Sept. 5.
Ganz, Albert J., New York, N. Y., assignor to Elnson Litho, Incorporated. Display device. No. 1,428,226; Sept. 5.
Gardner, Howard S., East Orange, N. J. Hoisting apparatus. No. 1,428,160; Sept. 5.
Garman, Harry B., Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio. Drag link. No. 1,428,024; Sept. 5.
Geist, Harry F., Hartsville, S. C. Magneto. No. 1,428,083; Sept. 5.
General American Tank Car Corporation. (See Weaver, Robert R., assignor.)
General Electric Company. (See Horstkotte, Edward H., assignor.)
General Electric Company. (See Van Keuren, William L., assignor.)
General Fire Extinguisher Company. (See Kennedy, W. A., and Loepsinger, assignors.)
General Railway Signal Company. (See Wight, Sedwick N., assignor.)
Gerojohn, Benjamin K., Princeton, N. J. Can holder. No. 1,428,430; Sept. 5.
Gianett, Victor A., New York, N. Y. Camera. No. 1,428,431; Sept. 5.
Giannone, Pasquale, Philadelphia, Pa. Boatswain's seat. No. 1,428,369; Sept. 5.
Gilbert, James E., and G. W. Harris, Chicago, Ill. Backbar transfer mechanism for smut-sheeting machines. No. 1,428,025; Sept. 5.
Giroiami, Charles G., Chicago, Ill. Anchoring or securing device. No. 1,428,327; Sept. 5.
Giroux, Roland J., Los Angeles, Calif. Film magazine for motion-picture cameras. No. 1,428,480; Sept. 5.
Glabasnya, Rudolph L., Chicago, Ill. Wrench. No. 1,428,282; Sept. 5.

Godfrey Conveyor Company, The. (See Godfrey, John F., assignor.)
Godfrey, John F., assignor to The Godfrey Conveyor Company, Elkhart, Ind. Rope carrier. No. 1,427,949; Sept. 5.
Godfrey, John F., assignor to The Godfrey Conveyor Co., Elkhart, Ind. Mast saddle. No. 1,427,950; Sept. 5.
Goldschmidt, Hans. (See Stock, A., and Goldschmidt.)
Goodwin, George A., Dayton, Ohio. Gun silencer, flash cover, and recoil check. No. 1,427,802; Sept. 5.
Gosnell, John H., Whitewright, Tex. Radiator cap. No. 1,428,161; Sept. 5.
Grantland, John W., Cincinnati, Ohio. Water-level gauge. No. 1,428,162; Sept. 5.
Gravell, James H., Elkins Park, Pa. Cleaner for and method of cleaning metals. No. 1,428,084; Sept. 5.
Gravell, James H., Elkins Park, Pa. Composition for and method of preventing metal from rusting. No. 1,428,085; Sept. 5.
Gravell, James H., Elkins Park, Pa. Paint for and method of preventing heated surfaces from rusting. No. 1,428,086; Sept. 5.
Gravell, James H., Elkins Park, Pa. Rust-resisting steel and producing same. No. 1,428,087; Sept. 5.
Gravell, James H., Elkins Park, Pa. Soldering solution. No. 1,428,088; Sept. 5.
Green, Walter R., Chicago, Ill. Attachment for tire carriers. No. 1,428,027; Sept. 5.
Greene, Frederick J., Racine, Wis. Hat-pad-securing means. No. 1,428,026; Sept. 5.
Greenstreet, Milfred L. (See Day, Wallace, and J. W., assignors.)
Gregerson, Gregers P. (See Gregerson, Louis J., G. P., and H. M.)
Gregerson, Henry M. (See Gregerson, Louis J., G. P., and H. M.)
Gregerson, Louis J., G. P., and H. M., Omaha, Nebr. Book for income-tax returns. No. 1,427,951; Sept. 5.
Griffin, Albert P., Troy, assignor of one-half to Arrow Grip Manufacturing Company, Inc., Glens Falls, N. Y. Chain connection. (Reissue.) No. 15,445; Sept. 5.
Griffin, James T., Oak Park, W. A. Timm, Berwyn, and A. E. Santschi, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electric soldering iron. No. 1,428,227; Sept. 5.
Grimm, Jonathan M., Appolo, Pa. Brake. No. 1,427,801; Sept. 5.
Gross, Charles W., Napa, Calif. Radiator. No. 1,428,481; Sept. 5.
Grover, Florence C., Hollywood, Calif. Kitchen-sink water-stop plug. No. 1,428,228; Sept. 5.
Grundig, George E., and S. Dibbins, Brooklyn, N. Y. Rim. No. 1,428,432; Sept. 5.
Grymes, Mason F. (See Peck, Calvin, assignor.)
Gunderson, Charles A., and R. P. Mason, Escanaba, Mich. Road raking and sweeping device. No. 1,428,283; Sept. 5.
Gustafson, Adolph P., assignor to M. Schuls Company, Chicago, Ill. Pneumatically-operated musical instrument. No. 1,428,501; Sept. 5.
Gustine, Franklin J., Chicago, Ill. Condenser for automobile radiators. No. 1,428,433; Sept. 5.
Guth, George J., Denver, Colo. Gasoline indicator for automobiles. No. 1,427,803; Sept. 5.
Haarbye, Storm B., Coraopolis, and H. G. McIlvried, Pittsburgh, Pa., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Doubling apparatus. No. 1,427,804; Sept. 5.
Hadaway, John B., Swampscott, and I. C. Buckminster, Beverly, Mass., assignors, by mesne assignments, to Fitz-Empire Double Pivot Last Company, Auburn, Me. Boring machine. No. 1,427,805; Sept. 5.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Leather-straighening machine. No. 1,427,806; Sept. 5.
Hadsel, Alvah D., Iowa Hill, assignor of one-half to F. N. Woods, jr., San Francisco, Calif. Surveying instrument. No. 1,428,028; Sept. 5.
Haggard, Osker C. (See Ward, Lloyd W., assignor.)
Hague, Charles, Hot Springs, Ark. Fence stretcher. No. 1,427,952; Sept. 5.
Halbleib, Edward A., assignor to North East Electric Company, Rochester, N. Y. Lock washer. No. 1,427,807; Sept. 5.
Hall, William T., Winnipeg, Manitoba, Canada. Automobile lock. No. 1,428,089; Sept. 5.
Haman, Albert L., St. Paul, Minn. Watchcase. No. 1,427,808; Sept. 5.
Hamilton, Harry B., New York, N. Y. Ankle supporter. (Reissue.) No. 15,446; Sept. 5.
Hamoson, John, London, England. Game apparatus. No. 1,428,482; Sept. 5.
Haney, Lewis H., assignor to Standard Deep Well Company, Los Angeles, Calif. Pump. No. 1,428,483; Sept. 5.
Hansen, Oswald H., New York, N. Y. Tire-pressure-gauge connection. No. 1,428,502; Sept. 5.
Hansen, Philip N., Los Angeles, Calif. Optician's angling pliers. No. 1,428,029; Sept. 5.
Harmon, Charles D., Jacksonville, Ill. Ladder. No. 1,428,370; Sept. 5.
Harris, Glenn W. (See Gilbert, J. E., and Harris.)
Harrison, Arthur W., Winthrop, Mass., assignor, by mesne assignments, to Force'ain Appliance Corporation, Wilmington, Del. Attaching device. No. 1,427,953; Sept. 5.
Harriss, James B., Newark, N. J. Launching and landing of aeroplanes. No. 1,428,163; Sept. 5.
Hart, Joseph L., Chickasha, Okla. Cotton machinery. No. 1,428,434; Sept. 5.
Hartline, Winfield F., Canton, Ohio. Cuspidor. No. 1,427,809; Sept. 5.
Harvey Frost & Company. (See Welch, Walter H., assignor.)
Haskin, Joseph J., Stockton, Calif. Vehicle wheel. No. 1,428,229; Sept. 5.
Hastings, Harry O., San Francisco, Calif. Razor-blade holder and stropping device. No. 1,428,164; Sept. 5.
Hausmann, Charles, assignor to Herman Kohlbusch Sr. Inc., Jersey City, N. J. Scales. No. 1,428,165; Sept. 5.
Hawkins, Arthur W. (See Busse, E. G., and Hawkins.)
Hawks, Joseph B., Los Angeles, Calif. Bracket for lumber rollers. No. 1,428,328; Sept. 5.
Hazelquist, Joseph A., Amery, Wis. Film camera. No. 1,427,954; Sept. 5.
Hazen-Brown Company. (See Hunting, Willard C., assignor.)
Headley, Frederick H., Birmingham, England. Spring suspension mechanism for vehicles. No. 1,428,166; Sept. 5.
Heald, Marion, Golden, Colo. Flour sieve. No. 1,427,810; Sept. 5.
Heaton, William H., Shawnee, Kans. Auto step. No. 1,428,030; Sept. 5.
Heeter, Charles M., Butler, Pa. Oil saver. No. 1,427,811; Sept. 5.
Heideman, Fred J., assignor to Household Utilities Corporation, Detroit, Mich. Expansion valve for refrigerating apparatus. No. 1,428,031; Sept. 5.
Heimann, Oscar J., Urbana, Ohio. Grass cutter. No. 1,428,284; Sept. 5.
Heltzel, Joseph W., Warren, Ohio. Concrete mixer. No. 1,427,955; Sept. 5.
Heltzel, Joseph W., Warren, Ohio. Machine for making concrete pavement. No. 1,427,956; Sept. 5.
Hemphill Company. (See Bosworth, George P., assignor.)
Hemphill Company. (See Jones, Frank E., assignor.)
Hendrickson, Robert A., assignor to Indianapolis Saddlery Company, Indianapolis, Ind. Drying and feeding mechanism for pasted strips. No. 1,428,329; Sept. 5.
Hendry, A. N. (See Musgrave, Charles A., assignor.)
Herbert, Fred S., Colorado Springs, Colo. Handle. No. 1,428,285; Sept. 5.
Herger, Michael, Tonopah, Nev. Horseshoe. No. 1,428,167; Sept. 5.
Hess, John J., Seattle, and N. Johnson, Spokane, Wash. Rail tie plate. No. 1,428,378; Sept. 5.
Hess, William H., Chicago, Ill. Grating. No. 1,428,230; Sept. 5.
Hickey, James L., Crane, and J. Kracht, Milwaukee, Wis. Ratchet wrench. No. 1,428,371; Sept. 5.
Hicks, Rex P., Milwaukee, Wis. Garden tractor. No. 1,428,231; Sept. 5.
Himebaugh, Duke O., Hooper, Nebr. Ironing chest. No. 1,428,435; Sept. 5.
Himelfarb, Benjamin, Houston, Tex. Hand implement. No. 1,427,898; Sept. 5.
Hingley, John A. (See Kennedy, Horace G., assignor.)
Hird, John P., Redlands, Calif. Weed and grass exterminating machine. No. 1,428,032; Sept. 5.
Hirt, Albert. (See Schwarz, B. J., Forister, and Hirt.)
Hirt, Joseph F., Chicago, Ill., assignor to Sonora Phonograph Company. Panel. No. 1,427,812; Sept. 5.
Hobart, Chauncey G., Chicago, Ill. Card-filing desk. No. 1,427,957; Sept. 5.
Hodges, Emery C., Joliet, Ill. Silo. No. 1,428,168; Sept. 5.
Hoe, R., and Co. (See Roesen, Oscar, assignor.)
Hoefken, Maurice L., Belleville, Ill. Turntable. No. 1,428,090; Sept. 5.
Hoffmann, Alexander, Berlin-Reinickendorf, and B. Bomborn, Berlin, Germany; said Hoffmann assignor to said Bomborn. Crab. No. 1,428,091; Sept. 5.
Holan, Henry J. (See Batla, T. H., and Holan.)
Holm, Andrew, Chicago, Ill. Dust-cloth container. No. 1,428,286; Sept. 5.
Holmen, Jacob, Racine, Wis. Shoe guard. No. 1,428,232; Sept. 5.
Holmes, Fred A., Belfast, Me. Adz. No. 1,428,287; Sept. 5.
Holmes, Maude E., administratrix. (See Ogden, William P.)
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. No. 1,428,505; Sept. 5.
Holt, Christopher K., Honolulu, Hawaii. Traction device for wheels. No. 1,427,813; Sept. 5.
Honma, Tetsuo, London, England. Handbox. No. 1,428,092; Sept. 5.
Horn, William H., & Brother, Incorporated. (See Willmott, James D., assignor.)
Horstkotte, Edward H., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. No. 1,427,814; Sept. 5.
Horton, George L., Caseville, Mich. Dirigible headlight. No. 1,428,436; Sept. 5.
Hosch, Greene C., St. Louis, Mo., and A. C. Owen, New York, N. Y., assignors to The Measuregraph Company, St. Louis, Mo. Spring-regulating device for presser rollers. No. 1,428,372; Sept. 5.
House, Albert B., Brooklyn, assignor to International Motor Company, New York, N. Y. Dual water control for fire-engine pumps. No. 1,427,899; Sept. 5.

Household Utilities Corporation. (See Heideman, Fred J., assignor.)
Howard, Clarence, Hutchinson, Kans. Burial vault. No. 1,428,373; Sept. 5.
Howard, John A., sr., West New Brighton, N. Y., assignor to Camward Engineering Co., Inc. Electric sadiron. No. 1,428,233; Sept. 5.
Huebsch, Frank J., San Francisco, Calif. Conveyer. No. 1,428,234; Sept. 5.
Huff, Ernest L., Natrona, Pa. Corrosion-resistant conduit fitting. No. 1,428,374; Sept. 5.
Hughes, Arthur, Hoopeston, assignor to Sprague Canning Machinery Company, Chicago, Ill. Machine for grinding knives. No. 1,427,900; Sept. 5.
Hulit, John A., Chicago, Ill. Recording telegraph machine. No. 1,428,033; Sept. 5.
Humphreys, Charles A., Bluefield, W. Va. Controlling device. No. 1,428,375; Sept. 5.
Humphries, Francis W., and L. E. Mackenzie, Carman, Manitoba, Canada. Grain-cleaning machine. No. 1,428,093; Sept. 5.
Hunting, Willard C., Cochituate, assignor to Hazen-Brown Company, Boston, Mass. Paste-applying apparatus. No. 1,427,815; Sept. 5.
Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Treatment of zirconium ores. No. 1,427,816; Sept. 5.
Hutchinson, Oliver C. K., assignor to Illinois Glass Company, Alton, Ill. Apparatus for testing glass containers. No. 1,427,817; Sept. 5.
Hutchinson, Walter L., Hartford, Conn., assignor to The Skayef Ball Bearing Company. Antifriction-bearing mounting. No. 1,427,818; Sept. 5.
Illinois Glass Company. (See Hutchinson, Oliver C. K., assignor.)
Immel, Elmond C., Leeray, Tex. Slip socket. No. 1,428,094; Sept. 5.
Indianapolis Saddlery Company. (See Hendrickson, Robert A., assignor.)
Ingersoll-Rand Company. (See Metzgar, Chester W., assignor.)
Ingle, Arthur H., Rochester, N. Y. Taper-boring mechanism for lathes. No. 1,428,095; Sept. 5.
Ingram, Harry E., Brooklyn, N. Y. Bag bottom. No. 1,428,330; Sept. 5.
Ingram, Samuel J., Sydney, New South Wales, Australia. Capsuling of corked bottle mouths and a composition of matter usable therefor. No. 1,428,096; Sept. 5.
International Motor Company. (See House, Albert B., assignor.)
International Patent Investment Corporation. (See Korée, J. U., and Malluk, assignors.)
Isbell, John A. (See Wood, H. A. W., and Isbell.)
Jackson, Louis F., Starkville, Miss. Device for actuating pet cocks or valves. No. 1,427,819; Sept. 5.
Jacobson, Peter G. (See Wahl, J. C., and Jacobson.)
Jager, Frank, Chicago, Ill. Car door. No. 1,427,901; Sept. 5.
Jagger, Peter B., London, England. Molding and/or compacting plastic fluid, powdered, granular, or the like substances. No. 1,428,097; Sept. 5.
James, William, Boston, Mass. End support for traveling bags. No. 1,429,098; Sept. 5.
Janin, John V., Seattle, Wash. Brace and bit therefor. No. 1,428,099; Sept. 5.
Janke, Louis F., Madison, Wis. Floating-hub metal wheel. No. 1,428,034; Sept. 5.
Jankus, Jack C., assignor to Woman's Institute of Domestic Arts & Sciences, Inc., Scranton, Pa. Pulp mold. No. 1,428,437; Sept. 5.
Jarmolowsky, Abraham, Brooklyn, N. Y. Pipe-threading tool. No. 1,428,035; Sept. 5.
Jennings, William F. (See Chew, L., and Jennings.)
Jewell, Charles M., Tulare, Calif. Loose-leaf ledger. No. 1,428,377; Sept. 5.
Johnson, Albert A., Mount Holly, N. J. Feed mechanism for woodworking machines. No. 1,428,036; Sept. 5.
Johnson, Frank A., New Haven, Conn., assignor to Signature Company, New York, N. Y. Multiple-writing machine. No. 1,428,331; Sept. 5.
Johnson, Harry W. (See Eddy, Russell H., assignor.)
Johnson, Nels. (See Hess, J. J., and Johnson.)
Johnston, Grace L., Brooklyn, N. Y. Grape juice. No. 1,427,902; Sept. 5.
Johnston, Grace L., Brooklyn, N. Y. Grape-juce product. No. 1,427,903; Sept. 5.
Johnston, Peter D. (See Strom, Gustav, assignor.)
Jones, Edward S., assignor of one-half to J. M. Simpson, Mobile, Ala. Dirigible, automatically-operable headlight for automobiles. No. 1,428,235; Sept. 5.
Jones, Frank E., Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I. Glove-knitting machine. No. 1,428,332; Sept. 5.
Jones, Jonathan L., Akron, Ohio. Automobile lock. No. 1,428,236; Sept. 5.
Jones, Laban E. (See Laist, F., and Jones.)
Junkers, Hugo, Dessau, Germany. Making hollow construction members. No. 1,427,904; Sept. 5.
Kahl, John O., Philadelphia, Pa. Internal chuck. No. 1,428,100; Sept. 5.
Kahn, Wolf, Newark, N. J. Fastener and making the same. No. 1,428,101; Sept. 5.
Katz, Saul, Chicago, Ill. Call bell or signaling device. No. 1,428,237; Sept. 5.
Kaufman, Martin, New York, N. Y. Toilet package. No. 1,427,820; Sept. 5.
Kaufmann, David B., Cincinnati, Ohio. Fountain pen. No. 1,428,333; Sept. 5.
Keachler, Lewis, assignor of one-half to N. C. Strayer, Philadelphia, Pa. Furniture fixture. No. 1,427,958; Sept. 5.
Keating, John B., Piedmont, Calif. Submersible pump and the like. No. 1,428,238; Sept. 5.
Keatley, James G., Denver, Colo. Pipe cutter. No. 1,428,288; Sept. 5.
Keeler, Hugh E., et al. (See Bolenbaugh, Burton R., C., and R. S., and Long, assignors.)
Keith, George, London, and John E. Pointon, Peterborough, assignors to James Keith & Blackman Company, Limited, London, England. Safety cut-out device for use on gas-supply systems. No. 1,427,821; Sept. 5.
Keith, James, & Blackman Company. (See Keith, G., and Pointon, assignors.)
Kelly, James J., assignor to Thomas Cusack Company, Chicago, Ill. Vehicle body. No. 1,428,239; Sept. 5.
Kelly, McBride L., Thomasville, Ga. Churn. No. 1,428,438; Sept. 5.
Kelly-Springfield Tire Company. (See Waters, Reginald H., assignor.)
Kelly, William A., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Invoice sheet. No. 1,428,102; Sept. 5.
Kemmerer, Walter, Clinton, Wis. Loading apparatus. No. 1,428,240; Sept. 5.
Kenkel, John E., Great Falls, Mont. Dispensing machine. No. 1,428,439; Sept. 5.
Kennedy, Horace G., assignor of one-half to J. A. Hingley, Denver, Colo. Grinding attachment. No. 1,428,289; Sept. 5.
Kennedy, William A., and A. J. Loepsinger, Providence, R. I., assignors to General Fire Extinguisher Company, New York, N. Y. Sprinkler head. No. 1,427,822; Sept. 5.
Kercher, John, Chicago, Ill. Vehicle wheel. No. 1,428,241; Sept. 5.
Kerr, Franklin H., Lucas, Ohio. Land-care mechanism. No. 1,428,242; Sept. 5.
Kerr, John, Toronto, Ontario, Canada. Air compressor. No. 1,427,823; Sept. 5.
Kerschbaum, Carl, Hinwil, assignor to Firm Stössel & Cie., Wädenswil, Switzerland. Device for mounting and removing tires. No. 1,428,440; Sept. 5.
Kevlin, Mathew F., Springfield, Vt. Drier for textile stock, etc. No. 1,428,290; Sept. 5.
Keyograph Corporation. (See Altschuler, Joseph, assignor.)
Kiesel, William F., jr., Altoona, Pa. Locomotive. No. 1,428,441; Sept. 5.
Kimball, W. W., Company. (See Ericson, Oscar A., assignor.)
Kimble Electric Company. (See Nies, John D., assignor.)
Kingsbury, Edwin F., Rutherford, N. J. Focal-plane-shutter-curtain-depressing mechanism. No. 1,427,824; Sept. 5.
Klauer Manufacturing Company. (See Flagge, Phillipp F., assignor.)
Klein, Charles H., Chaska, Minn. Machine for automatically loading bricks on pallets into rack-drier cars. No. 1,427,825; Sept. 5.
Klepetko, Erneat. (See Laist, F., Frick, Klepetko, and Davidson.)
Klewinghaus, Friedrich. (See Rasche, Paul, assignor.)
Knauber, Alexander M., Oak Park, assignor to Chicago Electric Sign Company, Chicago, Ill. Making signs. No. 1,428,334; Sept. 5.
Knight, John, Boundbrook, N. J. Rope clip. No. 1,428,037; Sept. 5.
Knox, George W., Oklahoma, Okla. Animal poke. No. 1,428,038; Sept. 5.
Kohlbusch, Herman, sr., Inc. (See Hausmann, Charles, assignor.)
Köhler, August, assignor to Firm Carl Zeiss, Jena, Germany. Lighting system for cinematographs. No. 1,428,103; Sept. 5.
Kokusho, Yoshio, Philadelphia, Pa. Pasteurizer. No. 1,482,379; Sept. 5.
Kolvig, Johannes F. W., assignor to The Lake Torpedo Boat Company, Bridgeport, Conn. Hydroplane-operating mechanism for submarine boats. No. 1,428,335; Sept. 5.
Korée, Jean U., and A. M. Malluk, assignors to International Patent Investment Corporation, New York, N. Y. Vehicle wheel. No. 1,428,243; Sept. 5.
Kowall, Julius, Newark, N. J. Cuff link. No. 1,427,959; Sept. 5.
Kracht, John. (See Hickey, J. L., and Kracht.)
Kramer, Louis A., Chicago, Ill. Hog hoist. No. 1,428,336; Sept. 5.
Kratz, Elizabeth A., Johnstown, N. Y. Convertible seat for children. No. 1,428,039; Sept. 5.
Kratz, George D., Akron, assignor to The Falls Rubber Company, Cuyahoga Falls, Ohio. Tire and making same. No. 1,428,040; Sept. 5.
Krebs, Emil G., Tillamook, Oreg. Wheel-support attachment for drag saws. No. 1,428,506; Sept. 5.
Kroll, Guillaume J., Luxemburg, Luxemburg. Separation and recovery of metals from metal alloys. No. 1,428,041; Sept. 5.
Kroll, William H., Bowler, Wis. Signal for automobiles. No. 1,428,104; Sept. 5.

Kross, Edwin F., Horicon, Wis. Coin-controlled liquid dispenser. No. 1,428,244; Sept. 5.
Kuhn, Ernst, Effretikon, Switzerland. Elastic connecting shackle for vehicles. No. 1,428,245; Sept. 5.
Kuzell, Charles R., and J. R. Marston, Clarkdale, Ariz. Purification of zinc-sulphate solutions. No. 1,427,826; Sept. 5.
L-W-F Engineering Company. (See Cato, Joseph L., assignor.)
Laburda, Walter, Coalton, Okla. Fan attachment for sewing machines. No. 1,427,827; Sept. 5.
La Hodny, William, Buffalo, N. Y. Mounting for supporting mirrors. No. 1,428,042; Sept. 5.
Laist, Frederick, and L. E. Jones, Anaconda, Mont., assignors to Anaconda Copper Mining Company. Roofing strip. No. 1,428,169; Sept. 5.
Laist, Frederick, F. F. Frick, E. Klepetko and L. P. Davidson, assignors to Anaconda Copper Mining Company, Anaconda, Mont. Coloring metallic copper. No. 1,428,170; Sept. 5.
Lake Torpedo Boat Company, The. (See Kolvig, Johannes F. W., assignor.)
Lamson Company, The. (See Dumble, Clifford R., assignor.)
Lancaster, Edgar T., Palatka, Fla. Apparatus for removing wall paper. No. 1,428,442; Sept. 5.
Landis Tool Company. (See Stoner, Paul, assignor.)
Landwirtschaftliche Maschinen-Gesellschaft. (See Schröder, Heinrich, assignor.)
Landwirtschaftlicke Maschinen-Gesellschaft. (See Schröder, Johann, assignor.)
Lang, E. G., Manufacturing Company, The. (See Niceley, William O., assignor.)
Langsch, Albert. (See Matuschak, A., and Langsch.)
Lankheet, Sander, Hamilton, Mich. Brace. No. 1,428,484; Sept. 5.
Lankheet, Sander, Hamilton, Mich. Elevator. No. 1,428,485; Sept. 5.
Larsen, Jens O., St. Louis, Mo. Carton. No. 1,427,828; Sept. 5.
Lawter, Thomas F., Newcastle, Ind. Rim expander and lock. No. 1,428,486; Sept. 5.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body structure. No. 1,428,105; Sept. 5.
Lee, Dana S., St. Louis, Mo. Brake-lever circuit closer for automobile theft signals. No. 1,428,380; Sept. 5.
Lee, Hugh W., and J. W. Swindale, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Means for actuating ammunition hoists. No. 1,428,171; Sept. 5.
Lee, John. (See Robeson, R., and Lee.)
Lee, John H., trustee. (See de Martino, Joseph, assignor.)
Leonard, Joseph, New York, N. Y., assignor to Fifth Avenue Corset Company, Allentown, Pa. Hose supporter. No. 1,427,960; Sept. 5.
Le Roy-Tracy, Frederick, Sydney, New South Wales, Australia. Binding plate for office letter files and the like. No. 1,428,172; Sept. 5.
Lindstrom, Frank L., Bridgeport, Conn. Toy top. No. 1,428,106; Sept. 5.
Lobb, George, Selma, Calif. Rotary pump. No. 1,428,173; Sept. 5.
Loepsinger, Albert J. (See Kennedy, W. A., and Loepsinger.)
Lombardo, Frank, Brooklyn, N. Y., assignor to Percy Kent Company. Bag-printing mechanism. No. 1,427,905; Sept. 5.
Long, Laurence W. (See Bolenbaugh, Burton, R., C., and R. S., and Long.)
Long, William H., Berkeley, Calif. Transmission mechanism. No. 1,427,961; Sept. 5.
Loudon, Dorr F., New York, N. Y. Saucer. No. 1,428,487; Sept. 5.
Loysey, Charles H. (See Craig, David, assignor.)
Lower, Melvin S., assignor to The Faultless Rubber Company, Ashland, Ohio. Tubing machine. No. 1,428,381; Sept. 5.
Loynes, Owen H. (See Toomey, J. F., and Loynes.)
Lucey, Patrick J., Chicago, Ill. Adjusting means for slicing-machine knives. No. 1,428,291; Sept. 5.
Lucey, Patrick J., Chicago, Ill. Knife guard for slicing machines. No. 1,428,292; Sept. 5.
Luckey, George P., Dayton, Ohio. Flexible transmitting device. No. 1,427,829; Sept. 5.
Lurcott, Winfred N., Weehawken, N. J. Machine for making wire straps. No. 1,427,962; Sept. 5.
Luther, John A., Schenectady, N. Y. Die structure. No. 1,428,174; Sept. 5.
Luther, John A., Schenectady, N. Y. Punch press. No. 1,428,175; Sept. 5.
Luther, John A., Schenectady, N. Y. Punch press. No. 1,428,176; Sept. 5.
Lyle, Herbert L., Brookville, Pa. Rail joint. No. 1,428,107; Sept. 5.
Lyons, Harry C., New York, N. Y. Dispensing means for beverages containing chocolate, cocoa, etc. No. 1,428,043; Sept. 5.
McCauley, Ernest G., Dayton, Ohio. Synchronising mechanism for reversible-pitch propellers. No. 1,427,830; Sept. 5.
McCool, William A., Beaver Falls, Pa. Making bricks. No. 1,427,831; Sept. 5.
McCullough, Frederick S., assignor to G. L. Martin, Cleveland, Ohio. Radiotelephony. No. 1,427,832; Sept. 5.
McCullough, Frederick S., assignor to G. L. Martin, Cleveland, Ohio. Radiotelegraphy. No. 1,427,833; Sept. 5.
McDowell, John K., et al. (See Fay, Joseph G., assignor.)
McEldowney, Robert, Canton, assignor to M. H. McKenna, Cleveland, Ohio. Dump truck. No. 1,428,293; Sept. 5.
McIlvried, Howard G. (See Haarbye, S. B., and McIlvried.)
McKenna, Michael H. (See McEldowney, Robert, assignor.)
McMerney, Dennis J., Portland, Oreg. Furnace. No. 1,428,488; Sept. 5.
McNeil, James W., Newark, N. J. Sheet-metal barrel. No. 1,428,337; Sept. 5.
Macchia, Camillo, Ardmore, assignor to The United States Fire Works Manufacturing Company, Cardington, Pa. Method and apparatus for charging toy torpedoes. No. 1,427,906; Sept. 5.
Mace, Harrison, Sidewood, Saskatchewan, Canada. Electric engine. No. 1,428,489; Sept. 5.
Mackenzie, Lorne E. (See Humphries, F. W., and Mackenzie.)
Maddux, Charles A., Portland, Oreg. Spotlight for automobiles. No. 1,428,108; Sept. 5.
Major, Malcolm G., Washington, D. C. Letter sheet. No. 1,428,503; Sept. 5.
Malasky, Israel, Johnstown, Pa. Rug-display device. No. 1,428,490; Sept. 5.
Malluk, Assad M. (See Korée, J. U., and Malluk.)
Malzoff, Hans. (See Romeiser, W., and Schiff, assignors.)
Mandel, Jacob, New York, N. Y. Traffic mirror. No. 1,428,443; Sept. 5.
Manley, Frederick T., Houston, Tex., assignor to The Texas Company, New York, N. Y. Apparatus for cracking hydrocarbon oils. No. 1,428,338; Sept. 5.
Manley, Frederick T., Houston, Tex., assignor to The Texas Company, New York, N. Y. Cracking hydrocarbon oils. No. 1,428,339; Sept. 5.
Marks, William C., Cleveland, Ohio, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Ironing board. No. 1,427,963; Sept. 5.
Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Inner tube and making same. No. 1,428,382; Sept. 5.
Marquiss, James E., Monticello, Ill. Conduit-forming jack. No. 1,427,964; Sept. 5.
Marston, John R. (See Kuzell, C. R., and Marston.)
Martin, George C., Los Angeles, Calif. Concrete-pipe machine. No. 1,428,044; Sept. 5.
Martin, Glenn L. (See McCullough, Frederick S., assignor.)
Martin, Thomas A., Washington, D. C. Automobile hoist. No. 1,428,383; Sept. 5.
Mason, Richard P. (See Gundersen, C. A., and Mason.)
Matuschak, Anton, and A. Langsch, New York, N. Y. Attachment for filling barrels. No. 1,427,965; Sept. 5.
Max Ams Machine Company, The. (See Brenzinger, Julius, assignor.)
Maxian, Martin, Johnstown, Pa. Flycatcher. No. 1,428,384; Sept. 5.
Maynard, Albert E., Southbridge, Mass., assignor to American Optical Company. Frame stretcher. No. 1,428,444; Sept. 5.
Mead, Frederick W., Solihull, England. Lubrication system of internal-combustion engines. No. 1,428,177; Sept. 5.
Meade, James M., Honeoye, N. Y. Stovepipe thimble. No. 1,428,294; Sept. 5.
Measuregraph Company, The. (See Hosch, G. C., and Owen, assignors.)
Measuregraph Company, The. (See Wheeler, John L., assignor.)
Meeks, Arthur R., Columbus, Ga. Tensioning device for shuttles. No. 1,428,445; Sept. 5.
Mellink, Charles F., Toledo, Ohio. Fire-resisting structure. No. 1,428,340; Sept. 5.
Melanson, Charles G., Lynn, Mass. Headlight. No. 1,428,109; Sept. 5.
Melanson, Charles G., Lynn, Mass. Headlight. No. 1,428,110; Sept. 5.
Mele, John M., East Haven, Conn. Signal device. No. 1,428,045; Sept. 5.
Mercer, Frederick B. M., Toronto, and C. F. Bradburn, Tillsonburg, Ontario, Canada. Mill-spout gate. No. 1,427,834; Sept. 5.
Meredith, William, Huntington Beach, and W. L. Foster, Whittier, Calif. Tubing catcher. No. 1,428,385; Sept. 5.
Meredith, Wynn, Alameda, assignor to Petroleum Rectifying Company, San Francisco, Calif. Dehydrator. No. 1,428,178; Sept. 5.
Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid compressor. No. 1,427,835; Sept. 5.
Meyer, Samuel N., New York, N. Y. Collapsible rim. No. 1,428,386; Sept. 5.
Meyers, John F., assignor to The Buckeye Twist Drill Company, Alliance, Ohio. Drill-twisting method and machine. No. 1,428,387; Sept. 5.
Mid-West Box Company. (See Fairchild, Walter H., assignor.)
Milkie, George A., Brooklyn, N. Y. Smoking pipe. No. 1,428,446; Sept. 5.
Miller, Alexander. (See Sheinker, George S., assignor.)
Miller Lock Company, The. (See Soley, Frank, assignor.)

Miller, Marie, Ottawa, Ontario, Canada. Combination boiler and strainer. No. 1,428,388; Sept. 5.
Miller, Walter M., Dougherty, Iowa. Adjustable gun sight. No. 1,428,389; Sept. 5.
Mills, Francis H., Boston, Mass. Bottle closure. No. 1,428,295; Sept. 5.
Milwaukee Gas Specialty Company. (See Ruts, Arnold O., assignor.)
Minck, Paul H., Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing spun material resembling wool, cotton, or chappe from viscose solutions. No. 1,428,246; Sept. 5.
Mitchell, John R. (See Andersen, C. F., and Mitchell.)
Mix, Melville W., Mishawaka, Ind. Airplane fuselage. No. 1,428,341; Sept. 5.
Mock, Hugo, New York, N. Y. Coffee-making device. No. 1,428,046; Sept. 5.
Molesworth, Frank, Auckland, New Zealand. Nail for packing cases and the like. No. 1,428,111; Sept. 5.
Mood, Arthur E., Wichita, Kans. Radiator protector. No. 1,428,179; Sept. 5.
Moon Brothers Manufacturing Company. (See Drew, John W., assignor.)
Moore, Charles, Visalia, Calif. Changeable sign. No. 1,428,390; Sept. 5.
More, George, assignor to More Handy Truck Corporation, Brooklyn, N. Y. Portage device. No. 1,428,180; Sept. 5.
More Handy Truck Corporation. (See More, George, assignor.)
Morris, Douglas, Cleveland, Ohio. Coated nail. No. 1,428,247; Sept. 5.
Morris, Ralph, Stanford, Mont. Key ring. No. 1,427,836; Sept. 5.
Morrow, Alfred J., Seattle, Wash. Warehouse truck. No. 1,428,248; Sept. 5.
Moskowitz, Morris, Montclair, N. J. Antichattering coupling or connection. No. 1,428,249; Sept. 5.
Mott, Abram C., jr., assignor to Abram Cox Stove Company, Philadelphia, Pa. Hot-air furnace. No. 1,428,047; Sept. 5.
Mulac, Anthony A., Alliance, Ohio, assignor to The Buckeye Twist Drill Company. Expansion reamer. No. 1,428,391; Sept. 5.
Muller-Thym, Bernard, Kansas City, Mo. Horizontal-wick burner. No. 1,428,112; Sept. 5.
Murphy, Walter M. (See Barrett, Thomas, assignor.)
Murphy, Walter P. (See Nicholas, Charles W., assignor.)
Murray, Robert W., New Lexington, Ohio. Pump valve. No. 1,427,837; Sept. 5.
Musgrave, Charles A., assignor of one-half to A. N. Hendry, Seattle, Wash. Attachment for milk-can-washing machines. No. 1,428,491; Sept. 5.
Myers, F. E., and Brother Company, The. (See Myers, Philip A., assignor.)
Myers, Philip A., assignor to The F. E. Myers and Brother Company, Ashland, Ohio. Pump. No. 1,428,181; Sept. 5.
Myers, Walter S., Darby, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Centrifugal casting machine. No. 1,428,048; Sept. 5.
Nahhas, Nemer F., et al. (See Fay, Joseph G., assignor.)
Neal, Darel, Redondo Beach, Calif. Foldable stove. No. 1,428,113; Sept. 5.
Neft, Max, Seattle, Wash. Knife. No. 1,428,296; Sept. 5.
Negbaur, Harry, New York, N. Y., assignor to E. & J. Bass, Incorporated. Ash tray. No. 1,427,838; Sept. 5.
Nellis, Frank E., jr. (See Post, C. E., and Wagner, assignors.) (Reissue.)
Nelson, Ellin. (See Dehlin, August G., assignor.)
Newell, Peter S. H., Leonia, N. J., assignor to The Diamond Products Corporation, Wilmington, Del. Figure toy. No. 1,428,182; Sept. 5.
Niceley, William O., assignor to The E. G. Lang Manufacturing Company, New York, N. Y. Merchandise-display container. No. 1,427,839; Sept. 5.
Nicholas, Charles W., Tarentum, Pa., assignor to W. P. Murphy, Chicago, Ill. Uncoupling device. No. 1,428,051; Sept. 5.
Nickl, Josef, assignor to Waffenfabrik Mauser, Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Recoil-loading pistol. No. 1,427,966; Sept. 5.
Nickl, Josef, assignor to Waffenfabrik Mauser, Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Recoil-loading pistol. No. 1,427,967; Sept. 5.
Nickum, Walter D., Glendale, Calif. Electrolytic apparatus and depolarizing the same. No. 1,428,049; Sept. 5.
Nickum, Walter D., Glendale, Calif. Electrolytic apparatus and depolarizing the same. No. 1,428,050; Sept. 5.
Nies, John D., St. Charles, assignor to Kimble Electric Company, Chicago, Ill. Brush mounting. No. 1,428,342; Sept. 5.
Norden, Walter S., Big Rock, Tenn. Rim expanding and contracting tool. No. 1,428,052; Sept. 5.
Norris, Edwin V., West Seneca, N. Y. Garment supporter. No. 1,428,250; Sept. 5.
North American Watch Company, Mansfield, Ohio. Watch-cases and watchcase guards. No. 158,511; Sept. 5.
North East Electric Company. (See Halbleib, Edward A., assignor.)
Novick, Abraham, Brooklyn, and E. Fish, assignors to F. L. Smithe, New York, N. Y. Liquid level indicator. (Reissue.) No. 15,447; Sept. 5.
O'Connor, John, New York, N. Y. Sash fastener. No. 1,428,447; Sept. 5.
Ogden, William P., deceased, Denver, Colo., by M. E. Holmes, administratrix, assignor to J. M. Schnatterly, Spokane, Wash. Concentrator. No. 1,428,392; Sept. 5.
Ohio Blower Company, The. (See Skipworth, Walter, assignor.)
Ohio Body & Blower Company, The. (See Bancroft, James L., assignor.)
Ohio Tractor Company, The. (See Zuhars, B. C., and Clarke, assignors.)
Ortman, Charles H., Cleveland, Ohio. Self-lubricating bolt. No. 1,428,251; Sept. 5.
Ortman, Charles H., Cleveland, Ohio. Self-lubricating bolt. No. 1,428,252; Sept. 5.
Osborn, Alden E., New York, N. Y. Motor vehicle. No. 1,428,053; Sept. 5.
Owen, Archibald C. (See Hosch, G. C., and Owen.)
Pagé, Victor W., New York, N. Y. Piston. No. 1,428,492; Sept. 5.
Paradis, Joseph F., assignor of one-half to R. Chiquette, Montreal, Quebec, Canada. Lace fastener. No. 1,428,493; Sept. 5.
Parker, George S., Salem, Mass. Game. No. 1,428,054; Sept. 5.
Parsons, Harold K., Southbridge, Mass. Ophthalmic mounting. No. 1,428,393; Sept. 5.
Patch, Ernest A., Prattsburg, N. Y. Tractor. No. 1,428,394; Sept. 5.
Paul, Max, Stockton, Calif. Ditching machine. No. 1,428,055; Sept. 5.
Paulson, Arthur, et al. (See Bolenbaugh, Burton R., C., and R. S., and Long, assignors.)
Paulus, Charles L. (See Russell, H. O., and Paulus.)
Pautler, Victor G., Fort Gage, Ill. Camera. No. 1,428,395; Sept. 5.
Payne, Lee H., Milwaukee, Wis. Tub bottom. No. 1,427,907; Sept. 5.
Peck, Calvin, Bloomfield, assignor of one-half to M. F. Grymes, Orange, N. J. Freight-car construction. No. 1,428,448; Sept. 5.
Pedersen, Oscar A., New York, N. Y. Roofing tile. No. 1,427,968; Sept. 5.
Pegler, Emile J., New York, N. Y. Transparent insulation. No. 1,428,056; Sept. 5.
Percy Kent Company. (See Lombardo, Frank, assignor.)
Perlman, Lena, Philadelphia, Pa. Surgical baker. No. 1,427,908; Sept. 5.
Perme, Frank, sr., Cleveland, Ohio. Cabinet for music rolls. No. 1,428,183; Sept. 5.
Perna, Joseph, Philadelphia, Pa. Dredging hoist trolley. No. 1,428,114; Sept. 5.
Perrin, Arthur, Brookline, Mass. Sight for firearms. No. 1,428,115; Sept. 5.
Perrin, William B., Koshkonong, Mo. Parcel-post-envelope tag. No. 1,428,494; Sept. 5.
Peterson, Edwin A., Madison, Wis., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,427,909; Sept. 5.
Petinot, Napoleon, New York, N. Y. Production of low-carbon ferro alloys. No. 1,428,057; Sept. 5.
Petroleum Rectifying Company. (See Meredith, Wynn, assignor.)
Pidgeon, Thomas, Highland Park, Ky. Stop device for levers. No. 1,427,969; Sept. 5.
Pieser, Jackson G., A. L. Quast and J. C. Quast, Chicago, Ill.; said A. L. Quast and said J. C. Quast assignors to said Pieser. Automatic weighing machine. No. 1,428,253; Sept. 5.
Pilliod, Charles J., assignor to D. Searles, trustee, Toledo, Ohio. Valve gear. No. 1,427,840; Sept. 5.
Pilliod, Charles J., assignor to D. Searles, trustee, Toledo, Ohio. Valve gear. No. 1,427,841; Sept. 5.
Pitts, Edmund M., Philadelphia, Pa. Display device. No. 1,428,058; Sept. 5.
Plaisted, Harold M., St. Louis, Mo., assignor of forty-nine one-hundredths to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Crusher and pulverizer. No. 1,427,842; Sept. 5.
Pleis, George W., jr. (See Pleis, George W., sr., and G. W., jr.)
Pleis, George W., sr., and G. W., jr., Philadelphia, Pa. Secondary battery. No. 1,427,970; Sept. 5.
Pogue, Joseph I., Omak, Wash. Box-press stamp. No. 1,427,843; Sept. 5.
Pointon, John E. (See Keith, G., and Pointon.)
Pollard-Alling Manufacturing Company. (See De Minico, Frank, assignor.)
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-rounding and lip-cutting machine. (Reissue.) No. 15,448; Sept. 5.
Porcelain Appliance Corporation. (See Harrison, Arthur W., assignor.)
Porter, William B., Minneapolis, Minn. Compo-board machine. No. 1,427,971; Sept. 5.
Post, Charles E., and P. G. Wagner, assignors to F. E. Nellis, jr., Chicago, Ill. Nonglare headlight. (Reissue.) No. 15,449; Sept. 5.
Pouchain, Adolfo, Turin, Italy. Manufacture of celluloid vessels. No. 1,427,972; Sept. 5.
Power, Henry R., assignor to Carborundum Company, Niagara Falls, N. Y. Abrasive article. No. 1,427,844; Sept. 5.
Posdeck, Adolph F., Newark, N. J. Manicuring instrument. No. 1,428,396; Sept. 5.

Prall, Bryan W., West New Brighton, N. Y. Navigating instrument. No. 1,428,449; Sept. 5.
Pratt & Whitney Company. (See Weingar, William H., assignor.)
Price, Stephen C., assignor to F. W. Buffum, Louisiana, Mo. Pouring device for bottles and the like. No. 1,428,297; Sept. 5.
Price, William G., Yakima, Wash. Apparatus for handling and delivering boxes or packages from one elevation to another. No. 1,428,184; Sept. 5.
Priesthoff, John B., Kokomo, Ind., assignor of one-half to G. Wilken, Latonia, Ky. Nail machine. No. 1,427,845; Sept. 5.
Pulver, Ray D., Canton, S. Dak. Fastening device. No. 1,427,846; Sept. 5.
Putt, Harlie O., Elkhart, Ind., assignor to The Ace Magneto Company, Automatic spark control and timing coupling for ignition magnetos. No. 1,427,847; Sept. 5.
Quast, Arthur L. (See Pieser, J. G., and A. L. and J. C. Quast.)
Quast, John C. (See Pieser, J. G., and A. L. and J. C. Quast.)
Quinn, William R., New York, N. Y. Oil burner. No. 1,427,910; Sept. 5.
Radcliffe, Owen F., Los Angeles, Calif. Zinc-oxide adhesive plaster. No. 1,428,495; Sept. 5.
Rand, James H., North Tonawanda, N. Y. Index element. No. 1,428,298; Sept. 5.
Rankin, Austin H., Stoy, Ill. Auto skid-chain hook. No. 1,427,848; Sept. 5.
Rapeport, William H., Philadelphia, Pa. Fender attachment for automobiles or other vehicles. No. 1,428,116; Sept. 5.
Rappas, Pete. (See De Stefano, Jacob, assignor.)
Rasche, Paul, U-Barmen, assignor to F. Klewinghaus, Barmen, Germany. Braiding machine. No. 1,428,059; Sept. 5.
Rayder, Thomas, Philadelphia, Pa. Shears holder. No. 1,427,849; Sept. 5.
Reece Shoe Machinery Company. (See Schoenky, August R., assignor.)
Reed, Charles E., et al. (See Edwards, William A., assignor.)
Reed, Hugh T., Chicago, Ill. Calendar. No. 1,427,850; Sept. 5.
Reed, Richard B., jr., Orange, Calif. Device for embedding wires in fusible sheets. No. 1,428,185; Sept. 5.
Reinboth, Friedrich C., Berlin, Germany. Device for tensioning the iron bands of boxes. No. 1,428,060; Sept. 5.
Reliable Auto Signal Company. (See Scheller, John M., assignor.)
Rhenania Verein Chemischer Fabriken Aktien-Gesellschaft, Zweigniederlassung Mannheim. (See Rüsberg, Friedrich, assignor.)
Rich, Edward P., Chicago, Ill. Compound valve. No. 1,428,254; Sept. 5.
Richardson, Linwood T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Plastic composition. No. 1,427,911; Sept. 5.
Rideout, William A., Oshkosh, Wis. Automobile lock. No. 1,427,912; Sept. 5.
Rietveld, Harry, Milwaukee, Wis. Alarm control for dampers. No. 1,428,255; Sept. 5.
Rigg, Charles D., Altoona, Pa. Bow for musical instruments. No. 1,427,851; Sept. 5.
Riker, Samuel M., Chester, N. J. Embroidery needle. No. 1,428,397; Sept. 5.
Roberts, L. R., Typewriter Company. (See Roberts, Lyman R., assignor.)
Roberts, Lyman R., Rutherford, N. J., assignor to L. R. Roberts Typewriter Company, Stamford, Conn. Type-bar key-lever mechanism. No. 1,428,117; Sept. 5.
Robeson, Ray, and J. Lee, Withee, Wis. Snatch block. No. 1,428,118; Sept. 5.
Robinson, Frank W., assignor to Schuylkill Hosiery Mills, Inc., Reading, Pa. Striping mechanism for knitting machines. No. 1,428,398; Sept. 5.
Roesen, Oscar, Brooklyn, assignor to R. Hoe and Co., New York, N. Y. Sheet delivery. No. 1,427,852; Sept. 5.
Roesen, Oscar, assignor to R. Hoe & Co., New York, N. Y. Inking mechanism for printing machines. No. 1,427,853; Sept. 5.
Rogers, Charles E., New London, Conn. Yarn reel. No. 1,428,119; Sept. 5.
Rogers, Clarence B., Seattle, Wash. Valve for high-pressure gas regulation. No. 1,427,854; Sept. 5.
Rogers, Hiram C., St. Louis, Mo. Automobile body heater. No. 1,428,299; Sept. 5.
Rollaje, Andrew H., Boise, Idaho. Interlocking device for avoiding double exposures and blank films. No. 1,427,973; Sept. 5.
Romeiser, Wilhelm, Lichterfelde, near Berlin, and L. Schiff, Berlin, assignors to H. Maisoff, Dresden, Saxonia, Germany. Device for preventing the theft of motor cars and the like. No. 1,428,450; Sept. 5.
Romero, Luis A., San Francisco, Calif. Making coffee extract. No. 1,428,256; Sept. 5.
Rominger, H. Darrill. (See Anderson, Ralph, assignor.)
Ronalter, Joseph M., Stafford Springs, Conn. Electric switch. No. 1,428,186; Sept. 5.
Roquefort-Villeneuve, Jean L. L., Paris, France. Constructional toy. No. 1,428,496; Sept. 5.
Roth, John, Richmond, Calif. Transmission mechanism. No. 1,428,257; Sept. 5.
Rouse, Thomas, Stamford Hill, England. Manufacture of iron and steel. No. 1,428,061; Sept. 5.
Royal Baking Powder Company. (See Stokes, William E., assignor.)
Ruff, Otto, Breslau, Germany. Waterproofing composition. No. 1,428,258; Sept. 5.
Ruiz, Charles, Belleville, N. J. Valve-grinding device. No. 1,427,913; Sept. 5.
Runcie, William T., Maplewood, N. J. Tent ventilator. No. 1,428,343; Sept. 5.
Rüsberg, Friedrich, Mannheim, assignor to Firm of Rhenania Verein Chemischer Fabriken Aktien-Gesellschaft, Zweigniederlassung, Mannheim, Mannheim-Wohlgelegen, Germany. Rendering crude phosphates soluble. No. 1,428,259; Sept. 5.
Russell, Herbert O., Los Angeles, Calif., and C. L. Paulus, Dayton, Ohio. Lock mechanism for machine guns. No. 1,427,855; Sept. 5.
Russell, Thomas N. (See Tesseyman, J. E., and Russell.)
Ruts, Arnold O., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Power-transmission belt. No. 1,427,856; Sept. 5.
Sampliner, Henry S. (See Anthony, Marcus O., assignor.)
Sanglier, Henry, Paris, France. Electric distributor for sealing wax. No. 1,428,062; Sept. 5.
Santschi, Arthur E. (See Griffin, J. T., Timm, and Santschi.)
Satterlee, Henry S., New York, N. Y. Toilet implement. No. 1,427,857; Sept. 5.
Scapin, Giuseppe, Abano, Italy. Heating plant for houses and buildings in general. No. 1,428,187; Sept. 5.
Schaller, Elizabeth. (See Schaller, William F., assignor.)
Schaller, William F., assignor of one-half to E. Schaller, San Francisco, Calif. Baker's oven. No. 1,428,063; Sept. 5.
Scharpenberg, Charles C., Bakersfield, Calif. Well pumping apparatus. No. 1,428,300; Sept. 5.
Scheel, William H., Mount Vernon, N. Y. Compound for hardening common rosin and using same. No. 1,428,120; Sept. 5.
Scheller, John M., assignor to Reliable Auto Signal Company, Milwaukee, Wis. Automobile signal. No. 1,428,260; Sept. 5.
Schiff, Ludwig. (See Romeiser, W., and Schiff.)
Schilling, August, San Francisco, Calif. Container vent. No. 1,428,399; Sept. 5.
Schlecht, Harold G., Bradentown, Fla. Spark plug. No. 1,428,451; Sept. 5.
Schlieper, John E., Pittsburgh, Pa. Tinning apparatus. No. 1,427,858; Sept. 5.
Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Propeller blower. No. 1,427,859; Sept. 5.
Schnatterly, J. M. (See Ogden, William P., assignor.)
Schoenky, August R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Rounding machine. No. 1,428,261; Sept. 5.
Scholes, Daniel R., assignor to Aermotor Company, Chicago, Ill. Gear casing. No. 1,427,914; Sept. 5.
Schorr, Philip N., Lancaster, Ohio. Emergency tire. No. 1,428,452; Sept. 5.
Schröder, Edmund, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Working electric resistance welding machines operating with continuous current. No. 1,428,262; Sept. 5.
Schröder, Heinrich, Shedinghausen, assignor to Landwirtschaftliche Maschinen-Gesellschaft, Hemelingren, near Bremen, Germany. Electromotor with connecting gear. No. 1,428,302; Sept. 5.
Schröder, Johann, Bremen, assignor to Landwirtschaftlicke Maschinen-Gesellschaft, Hemelingen, near Bremen, Germany. Device for fixing driving engines or electromotors to machines to be driven. No. 1,428,301; Sept. 5.
Schroeder, Herman D., Los Angeles, Calif. Gas burner. No. 1,428,400; Sept. 5.
Schuler, Frank M., Roselle Park, N. Y., assignor to A. E. Dubey, Brooklyn, N. Y. Coated tissue paper and method of and means for coating it. No. 1,428,064; Sept. 5.
Schuls, M., Company. (See Gustafson, Adolph P., assignor.)
Schuylkill Hosiery Mills, Inc. (See Robinson, Frank W., assignor.)
Schwarz, Benjamin J., N. Forister, and A. Hirt, Breese, Ill. Cap visor and lamp support. No. 1,428,453; Sept. 5.
Schwalb, Fred E., Chicago, Ill. Conveying apparatus. No. 1,427,860; Sept. 5.
Scouler, Daniel, Maisonneuve, Quebec, Canada. Punch and die for angle smith work. No. 1,428,344; Sept. 5.
Seal-Tite Piston Ring Co. (See Sipe, Martin E., assignor.)
Searles, Daniel, trustee. (See Pilliod, Charles J., assignor.)
Seeberg, Peter C., Clovis, Calif. Press for setting metal-felly wheels. No. 1,428,303; Sept. 5.
Sellgren, Axel, Winnipeg, Manitoba, Canada. Car door. No. 1,427,915; Sept. 5.
Sessions, Charles R., San Francisco, Calif. Pump. No. 1,427,974; Sept. 5.
Sheinker, George S., assignor of one-half to A. Miller, New York, N. Y. Braking mechanism for road vehicles. No. 1,427,916; Sept. 5.
Shickiuna, Joseph J., assignor to Buffalo Specialty Company, Buffalo, N. Y. Polishing mop. No. 1,428,263; Sept. 5.
Shlagel, Charles, Clara City, Minn. Grinding device. No. 1,428,497; Sept. 5.

Shriner Moral O., assignor to S. A. Shriner, Niagara Falls, N. Y. Metallic furniture. No. 1,427,861; Sept. 5.
Shriner, Salina A. (See Shriner, Moral O., assignor.)
Signature Company. (See Johnson, Frank A., assignor.)
Silent Drama Syndicate, a trusteeship. (See Brown, Lloyd, assignor.)
Simmons, Ralph C. (See Bradford, C. M., and Simmons.)
Simpson, John M. (See Jones, Edward S., assignor.)
Simpson, John T., Newark, N. J. Making reenforced concrete structures. No. 1,428,401; Sept. 5.
Sipe, Martin E., assignor to Seal-Tite Piston Ring Co., Minneapolis, Minn. Piston ring. No. 1,427,975; Sept. 5.
Skayef Ball Bearing Company, The. (See Davis, Russell K., assignor.)
Skayef Ball Bearing Company, The. (See Hutchinson, Walter L., assignor.)
Skiles, Henry D., Kansas City, Mo. Wheel puller. No. 1,427,976; Sept. 5.
Skipworth, Walter, assignor to The Ohio Blower Company, Cleveland, Ohio. Holding means for ventilator louvers and the like. No. 1,427,917; Sept. 5.
Slack, Edward A., Auckland, New Zealand. Tie adjuster and retainer. No. 1,428,454; Sept. 5.
Smith, Albert W., Youngstown, Ohio. Slag pocket. No. 1,427,862; Sept. 5.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Work web for typewriters. No. 1,428,264; Sept. 5.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,265; Sept. 5.
Smith, Jesse A. B., Fairfield, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Invoice sheet. No. 1,428,266; Sept. 5.
Smith, Nelson K., Dallas, Tex. Releasing device for pipe wrenches. No. 1,428,121; Sept. 5.
Smith, Primus W., Junction City, assignor of one-eighth to J. J. Bookhout and J. R. Bookhout, Dallas County, Tex. Well-drilling bit. No. 1,428,122; Sept. 5.
Smith, Thomas H., Jamestown, N. Y. Union suit. No. 1,428,504; Sept. 5.
Smithe, Ferdinand L. (See Novick, A., and Fish, assignors.) (Reissue.)
Smoot, James E., Concord, N. C. Holder for pencils and erasers. No. 1,428,188; Sept. 5.
Snider, T. A., Preserve Company, The. (See Street, Wade L., assignor.)
Societa Brevetti Feriani. (See Feriani, Gaetano, assignor.)
Sohn, Elmer L., El Paso, Tex. Cigarette package. No. 1,427,977; Sept. 5.
Soldane, Lloyd A. T., and V. V. Van Nattan, San Francisco, Calif. Grease retainer and dust cap. No. 1,428,267; Sept. 5.
Soley, Frank, assignors to The Miller Lock Company, Philadelphia, Pa. Lock. No. 1,428,455; Sept. 5.
Solomon, David W., Redmond, Wash. Saw support and guide. No. 1,428,268; Sept. 5.
Sonora Phonograph Company. (See Hirt, Joseph F., assignor.)
Sorby, Lawrence A., Arlington, Mass. Automatic grinding machine. No. 1,428,269; Sept. 5.
Speedaumatic Company. (See Cooper, Simon, assignor.)
Sperry, Elmer A., Brooklyn, N. Y. Wireless repeater system. No. 1,428,507; Sept. 5.
Sperry Gyroscope Company, The. (See Bassett, Preston R., assignor.)
Splitdorf Electrical Company. (See Aiken, Edward L., assignor.)
Sprague Canning Machinery Company. (See Hughes, Arthur, assignor.)
Standard Deep Well Company. (See Haney, Lewis H., assignor.)
Standard Manufacturing Company. (See Voorhees, Walter K., assignor.)
Standish, Edward K., Stoughton, Mass. Mechanism for counterbalancing pivotally-mounted bodies. No. 1,428,345; Sept. 5.
Stanley Works, The. (See Bailey, Clifford E., assignor.)
Stauffer, Christian H., Chicago, Ill. Wrench. No. 1,427,918; Sept. 5.
Steedman, George F., St. Louis, assignor to Curtis & Co., Mfg. Co., Wellston, Mo. Reciprocating pump or compressor. No. 1,428,402; Sept. 5.
Steel Products Company, The. (See Garman, Harry B., assignor.)
Steele, Joseph P., Chicago, Ill. Shoe sandal sole. No. 1,428,123; Sept. 5.
Steinberger, Harry J., Skiatook, Okla. Working valve for oil wells. No. 1,427,978; Sept. 5.
Stephan, Carl, Altona-Hamburg, Germany. Preparation of compounds of isatin-a-arylides with sulphur dioxide. No. 1,427,863; Sept. 5.
Stevenson, Donald H., Gardner, Mont. Automatic pistol. No. 1,428,304; Sept. 5.
Stewart, Thomas W., South Sioux City, Nebr. Safety razor. No. 1,427,864; Sept. 5.
Stinsing, Frank C., Long Island City, N. Y. Alarm whistle means for closure devices. No. 1,428,189; Sept. 5.
Stinsing, Frank C., New York, N. Y. Alarm. No. 1,428,124; Sept. 5.
Stock, Alfred, Berlin-Dahlem, and H. Goldschmidt, Berlin, Germany. Electrically manufacturing compact metallic beryllium. No. 1,427,919; Sept. 5.
Stokes, William E., Rockville Center, assignor to Royal Baking Powder Company, New York, N. Y. Effervescent mixture. No. 1,427,979; Sept. 5.
Stoner, Paul, assignor to Landis Tool Company, Waynesboro, Pa. Headstock for lathes. No. 1,428,190; Sept. 5.
Stossel & Cie. (See Kerschbaum, Carl, assignor.)
Stout, Dira S. (See White, J. D., and Stout.)
Stranders, Walter, London, England. Educational apparatus. No. 1,428,456; Sept. 5.
Strating, Charles E., Chicago, Ill. Window weight. No. 1,428,191; Sept. 5.
Strauss, Joseph B., Chicago, Ill. Elevated railway. No. 1,427,920; Sept. 5.
Strayer, Nora C. (See Keachler, Lewis, assignor.)
Street, Wade L., assignor to The T. A. Snider Preserve Company, Chicago, Ill. Vegetable washing machine. No. 1,428,125; Sept. 5.
Strom, Gustav, assignor of thirty one-hundredths to P. D. Johnston, Pontiac, Mich. Railway tie. No. 1,427,980; Sept. 5.
Strong, Charles H., London, England. Change-speed and clutching mechanism. No. 1,428,346; Sept. 5.
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sutherland, Fred, Chicago, Ill. Attachment for telephone transmitters. No. 1,428,305; Sept. 5.
Swan, John H. (See Woodsome, John O., and Swan.)
Swartwood, Charles L., Centralia, Wash. Evaporative iceless refrigerator. No. 1,427,981; Sept. 5.
Swenson, George E., Hastings-upon-Hudson, N. Y., assignor to The Barrett Company. Flashing receptacle and brace. No. 1,427,921; Sept. 5.
Swenson, George E., Hastings-upon-Hudson, N. Y., assignor to The Barrett Company. Roof flashing. No. 1,428,457; Sept. 5.
Swindale, John W. (See Lee, H. W., and Swindale.)
Szabo, Joseph, New Castle, Pa. Digging implement. No. 1,427,865; Sept. 5.
Taylor, Robert S., Seattle, Wash. Expandible lap. No. 1,428,126; Sept. 5.
Tegeler, Frederick A., La Grange, Ill. Rail-drilling device. No. 1,427,982; Sept. 5.
Telli, Anthony, Washington, D. C. Envelope-fastener-applying device. No. 1,428,498; Sept. 5.
Tesseyman, John E., and T. N. Russell, assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Carline. No. 1,428,403; Sept. 5.
Tevander, Olof N., Chicago, Ill. Fastening clip. No. 1,427,866; Sept. 5.
Texas Company, The. (See Adams, Joseph H., assignor.)
Texas Company, The. (See Manley, Frederick T., assignor.)
Theobald, Thomas O., Detroit, Mich. Washing machine. No. 1,427,867; Sept. 5.
Thomas, Edward, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,193; Sept. 5.
Thompson, Carey W., New York, N. Y. Process and apparatus for recovery of hydrocarbons from oil shale. No. 1,428,458; Sept. 5.
Tiffany, Louis L., Ashmont, Mass. Viscosimeter. No. 1,427,922; Sept. 5.
Tidswell, Hubert R., Winnington, England. Sex calculator. No. 1,428,065; Sept. 5.
Timm, William A. (See Griffin, J. T., Timm, and Santschi.)
Tinsley, Louis C., New York, N. Y. Mold for typographical slugs. No. 1,428,459; Sept. 5.
Tlucka, Louis, Boonton, N. J., assignor to Van Raalte Company, Inc., New York, N. Y. Fancy knitting attachment for knitting machines. No. 1,427,983; Sept. 5.
Toomey, John F., New York, N. Y., and O. H. Loynes, Wood Ridge, N. J., assignors to American Telephone and Telegraph Company. Telephone-call circuits. No. 1,427,923; Sept. 5.
Tripplehorn, George H., Highland Park, Mich. Shock absorber. No. 1,428,306; Sept. 5.
Troy Laundry Machinery Co. (See Marks, William C., assignor.)
Trust, Henry, deceased, Park Ridge, N. J., and F. M. Ashley, Brooklyn, N. Y.; J. Trust, administratrix. Coupling. No. 1,427,924; Sept. 5.
Trust, Josephine, administratrix. (See Trust, H., and Ashley.)
Tschohl, Emil F. (See Delk, George, assignor.)
Tuomi, Uno E., Dallas, Tex. Reenforced composite building block. No. 1,428,127; Sept. 5.
Turner, Gilbert H., Port Chester, N. Y. Damper. No. 1,427,868; Sept. 5.
Turner, James W., Statesville, Tenn. Motor-balancing device. No. 1,428,404; Sept. 5.
Turney, Lee L., Minneapolis, Minn. Internal-combustion engine. No. 1,427,984; Sept. 5.
U. S. Industrial Alcohol Co. (See Winter, Ernest J., assignor.)
Uebelmesser, Charles, assignor, by mesne assignments, to A. H. T. Banshaf, New York, N. Y. Variable support for cutting tools. No. 1,427,925; Sept. 5.
Underwood Typewriter Company. (See Burns, Edward A., assignor.)
Underwood Typewriter Company. (See Campbell, George W., assignor.)
Underwood Typewriter Company. (See Davidson, Joshua E., assignor.)
Underwood Typewriter Company. (See Kelly, William A., assignor.)

Underwood Typewriter Company. (See Peterson, Edwin A., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Underwood Typewriter Company. (See Thomas, Edward, assignor.)
United Products Corporation of America. (See Biddle, Arthur, assignor.)
United Shoe Machinery Corporation. (See Bradford, C. M., and Simmons, assignors.)
United Shoe Machinery Corporation. (See Brennan, William J., assignor.)
United Shoe Machinery Corporation. (See Brogan, James A., assignor.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Myers, Walter S., assignor.)
United States Envelope Company. (See Furman, Samuel, assignor.)
United States Fire Works Manufacturing Company, The. (See Macchia, Samillo, assignor.)
United States Gypsum Company. (See Birdsey, Charles R., assignor.)
Van Altena, New York, N. Y. Picture-slide-projection apparatus. No. 1,428,347; Sept. 5.
Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Proofer belt. No. 1,427,869; Sept. 5.
Van Keuren, William L., North Bergen, N. J., assignor to General Electric Company. Hermetical seal. No. 1,427,870; Sept. 5.
Van Nattan, Verle V. (See Soldane, L. A. T., and Van Nattan.)
Van Raalte Company Inc. (See Tlucka, Louis, assignor.)
Van Sweringen, George N., assignor to Chicago Railway Equipment Company, Chicago, Ill. Combined release and support for brake beams. No. 1,428,192; Sept. 5.
Van Voorst, Theodore, Touchet, Wash. Flying machine. No. 1,428,066; Sept. 5.
Van Vorst, George E. and J., Scotia, N. Y. Roofing machine. No. 1,427,871; Sept. 5.
Van Vorst, John. (See Van Vorst, George E. and J.)
Vassell, Anthony, Newark, N. J. Magazine pencil. No. 1,427,985; Sept. 5.
Verville, Alfred V., Detroit, Mich. Airplane-radiator mounting. No. 1,427,872; Sept. 5.
Vetter, Joseph, Toledo, Ohio. Tip-securing means for billiard cues. No. 1,427,873; Sept. 5.
Viner, John H., Minneapolis, Minn. Cream and egg whipper. No. 1,427,986; Sept. 5.
Von Meyenburg, Konrad, Basel, Switzerland. Self-propelled agricultural implement for cultivating, mowing, grinding, and the like. No. 1,428,194; Sept. 5.
Von Soden-Fraunhofen, Graf Alfred, Friedrichshafen, assignor to Firm Zahnradfabrik Aktiengesellschaft, Friedrichshafen-on-the-Bodensee, Germany. Control mechanism. No. 1,428,460; Sept. 5.
Voorhees, Walter K., assignor to Standard Manufacturing Company, Cedar Falls, Iowa. Adjusting device for flexible gates. No. 1,428,067; Sept. 5.
Waffenfabrik Mauser, Aktiengesellschaft. (See Nickl, Josef, assignor.)
Wagner, Paul G. (See Post, C. E., and Wagner.) (Reissue.)
Wahl Company, The. (See Wahl, J. C., and Jacobson, assignors.)
Wahl, John C., and P. G. Jacobson, assignors to The Wahl Company, Chicago, Ill. Metal box. No. 1,428,195; Sept. 5.
Waitz, Henry F., New York, N. Y. Nonsinkable vessel. No. 1,428,461; Sept. 5.
Walker, Thomas E., assignor to Crittal Casement Window Co., Detroit, Mich. Window construction. No. 1,428,068; Sept. 5.
Walsh, Charles E., Cleveland, Ohio. Steam trap. No. 1,427,987; Sept. 5.
Wanderer-Werke vorm. Winklhofer & Jaenicke Aktiengesellschaft. (See Buschmann, Theodor E., assignor.)
Ward, Lloyd W., assignor of one-fourth to O. C. Haggard, Springfield, Mo. Bed. No. 1,428,462; Sept. 5.
Ward, William J. (See Crossan, Patrick F., assignor.)
Washburn-Crosby Company. (See Zesbaugh, Lawrence G., assignor.)
Waters, Edward T., Omaha, Nebr. Ink-distributing mechanism. No. 1,427,988; Sept. 5.
Waters, Reginald H., Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y. Making semisolid tires. No. 1,428,508; Sept. 5.
Watson, Thomas S., Milwaukee, Wis. Conveying structure. No. 1,427,989; Sept. 5.
Watson, Thomas S., Milwaukee, Wis. Running gear for conveying structures. No. 1,427,990; Sept. 5.
Weaver, Paul L., Allentown, Pa. Picture frame. No. 1,427,874; Sept. 5.
Weaver, Robert R., assignor to General American Tank Car Corporation, Chicago, Ill. No. 1,428,196; Sept. 5.
Weeks Photo-Engraving Company. (See Weeks, Raymond M., assignor.)
Weeks, Raymond M., Narberth, assignor to Weeks Photo-Engraving Company, Inc., Philadelphia, Pa. Means for suspending plates during treatment by electrolysis. No. 1,427,875; Sept. 5.
Weeks, Raymond M., Narberth, assignor to Weeks Photo-Engraving Company, Inc., Philadelphia, Pa. Apparatus for electrical etching. No. 1,427,876; Sept. 5.
Weeks, Raymond M., Narberth, assignor to Weeks Photo-Engraving Company, Inc., Philadelphia, Pa. Process and apparatus for electrical etching. No. 1,427,877; Sept. 5.
Wegener, August F., Ridgewood, N. J. Toy house. No. 1,428,405; Sept. 5.
Weinberg, Charles, Brooklyn, N. Y. Automobile fender. No. 1,427,878; Sept. 5.
Weingar, William H., West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Angle block. No. 1,428,509; Sept. 5.
Weinman, Milton, Chicago, Ill. Waste basket. No. 1,427,879; Sept. 5.
Weiss, David, New York, N. Y. Stringing pearls and the like. No. 1,428,348; Sept. 5.
Welch, Walter H., Bristol, assignor to Harvey Frost & Company, Limited, London, England. Electrical cut-out operated by fluid pressure. No. 1,428,463; Sept. 5.
Welcker, Paul H., assignor to Brown & Bigelow, St. Paul, Minn. Collapsible easel. No. 1,427,880; Sept. 5.
Wells, William S., South Bethlehem, Pa., assignor to Benjamin Eastwood Company, Paterson, N. J. Loom. No. 1,428,406; Sept. 5.
Wesche, Louis F., Webb, Iowa. Automobile theft-preventing device. No. 1,428,307; Sept. 5.
Wessel, Harry O., St. Louis, Mo. Electrically-operated semaphore toy. No. 1,427,881; Sept. 5.
Western Electric Company. (See Blount, Harry, assignor.)
Western Electric Company. (See Griffin, J. T., Timm, and Santschi, assignors.)
Westinghouse Electric and Manufacturing Company. (See Schmidt, Henry F., assignor.)
Wheeler, John L., assignor, by mesne assignments, to The Measuregraph Company, St. Louis, Mo. Resetting mechanism. No. 1,428,407; Sept. 5.
Wheelock, John H., Worcester, Mass. Sign flasher. No. 1,428,499; Sept. 5.
Whelan, Martin J., Clifton Heights, Pa. Heating device. No. 1,428,349; Sept. 5.
White, James D., and D. S. Stout, Nallen, W. Va. Steam engine. No. 1,428,464; Sept. 5.
White, John A., San Francisco, Calif. Quick-detachable coupling. No. 1,428,408; Sept. 5.
Whittaker, John A., Detroit, Mich. Latch. No. 1,427,991; Sept. 5.
Wiard, Frederick, assignor to American Standard Tool Company, Detroit, Mich. Milling cutter. No. 1,428,308; Sept. 5.
Wight, Sedwick N., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling system for single-track roads. No. 1,427,882; Sept. 5.
Wilken, George. (See Priesthoff, John B., assignor.)
Will-Burt Company, The. (See Clark, Albert A., assignor.)
Williams, Harold E., Washington, D. C. Electric-lamp lock. No. 1,427,883; Sept. 5.
Williams Patent Crusher & Pulverizer Company. (See Plaisted, Harold M., assignor.)
Williams, William E., Chicago, Ill. Demountable wheel for automobiles. No. 1,427,926; Sept. 5.
Williams, William E., Chicago, Ill. Metal disk wheel. No. 1,427,927; Sept. 5.
Williams, William E., Wilmette, Ill. Automobile bumper. No. 1,427,928; Sept. 5.
Williams, William R., Philadelphia, Pa. Vehicle suspension. No. 1,427,992; Sept. 5.
Willmott, James D., assignor to William H. Horn & Brother, Incorporated, Philadelphia, Pa. Kneecap or elbow bandage. No. 1,428,465; Sept. 5.
Wilson, Don C., New York, N. Y. Train-lighting-generator drive. No. 1,428,309; Sept. 5.
Wilson, Ira J., et al. (See Edwards, William A., assignor.)
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,427,884; Sept. 5.
Winter, Ernest J., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Distilling process. No. 1,427,885; Sept. 5.
Winter, Ernest J., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Distilling apparatus. No. 1,427,886; Sept. 5.
Winter, Ernest J., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for distilling. No. 1,427,887; Sept. 5.
Winter, Ernest J., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Distilling. No. 1,427,888; Sept. 5.
Wittmann, Joseph H., Kansas City, Mo. Stake. No. 1,427,889; Sept. 5.
Wolff, Albert, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Cleaning sulphonic acid. No. 1,428,197; Sept. 5.
Woman's Institute of Domestic Arts & Sciences, Inc. (See Jankus, Jack C., assignor.)
Wood, Benjamin F., Maplewood, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler furnace. No. 1,428,128; Sept. 5.

Wood, Henry A. W., New York, and J. A. Isbell, Middletown, assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Inking device for late-news and other printing machines. No. 1,428,310; Sept. 5.
Wood Newspaper Machinery Corporation. (See Wood, H. A. W., and Isbell, assignors.)
Woods, Frederick N., jr. (See Hadsel, Alvah D., assignor.)
Woodsome, John O., Syracuse, N. Y., and J. H. Swan, Chicago, Ill. Steam circulating and regenerating system. No. 1,428,198; Sept. 5.
Woodward Automatic Control Corporation. (See Woodward, Garrett W., assignor.)
Woodward, Garrett W., assignor to Woodward Automatic Control Corporation, Chicago, Ill. Automatic control mechanism. No. 1,428,199; Sept. 5.
Worthington Pump and Machinery Corporation. (See Aborn, George P., assignor.)
Yeckel, James F., deceased, Lawrence, Pa.; W. B. Yeckel, administratrix. Track brake for mine cars. No. 1,428,069; Sept. 5.
Yeckel, Wilma B., administratrix. (See Yeckel, James F.)
Young, Charles W., Syracuse, N. Y. Knockdown crate. No. 1,428,070; Sept. 5.
Zahnradfabrik Aktiengesellschaft. (See von Soden-Fraunhofen, Graf Alfred, assignor.)
Zeedyk, William, assignor to Benjamin Eastwood Company, Paterson, N. J. Loom. No. 1,428,409; Sept. 5.
Zeedyk, William, assignor to Benjamin Eastwood Company, Paterson, N. J. Loom. No. 1,428,410; Sept. 5.
Zeiss, Firm of Carl. (See Köhler, August, assignor.)
Zesbaugh, Lawrence G., assignor to Washburn-Crosby Company, Minneapolis, Minn. Sectional conveyers. No. 1,427,890; Sept. 5.
Ziegler, Charles E., Pittsburgh, Pa. Identification holder. No. 1,427,891; Sept. 5.
Zimmerman, Michael, Philadelphia, Pa. Bottle-retaining box. No. 1,428,350; Sept. 5.
Zuhars, Benjamin C., and H. D. Clarke, assignors to The Ohio Tractor Company, Columbus, Ohio. Combined brake and rear pilot. No. 1,427,993; Sept. 5.
Zuhars, Benjamin C., and H. D. Clarke, assignors to The Ohio Tractor Company, Columbus, Ohio. Transmission-shifting mechanism. No. 1,427,994; Sept. 5.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Andrus, Hiram J., Akron, Ohio. Tire. Nos. 61,432–3; Sept. 5.
Bailey, Banks & Biddle Co. (See Meell, George A., assignor.)
Baker, Alfred Z., Newark, N. J., assignor to Fulton Specialty Co. Chart for educational games. No. 61,434; Sept. 5.
Burnett, Ira A., Chicago, Ill. Combined bulletin and time board. No. 61,435; Sept. 5.
Dryden Rubber Company. (See Todd, Dudley M., assignor.)
Ericson, Emile, New York, assignor to Standard Wall Paper Co., Hudson Falls, N. Y. Wall paper. No. 61,436; Sept. 5.
Fulton Specialty Co. (See Baker, Alfred Z., assignor.)
Gadomski, Stanley, Chicago, Ill. Flag. No. 61,437; Sept. 5.
Garden City Pottery Company. (See Raymond, Daniel, assignor.)
Goldberg, Jacob, Philadelphia, Pa. Display stand. No. 61,438; Sept. 5.
Haviland, Theodore, & Co. (See Haviland, William D., assignor.)
Haviland, William D., Limoges, France, assignor to Theodore Haviland & Co., New York, N. Y. Plate or similar article. Nos. 61,439–40; Sept. 5.
Hecht, Earl A., Mansfield, Ohio. Tire tread. No. 61,441; Sept. 5.
Humphrey, Glen S., Brooklyn, N. Y. Powder container. No. 61,442; Sept. 5.
India Tire and Rubber Company. (See Worth, Paul, assignor.)
Johnson, Delmar L., St. Louis, Mo. Signal lens plate. No. 61,443; Sept. 5.
Martin, Chris A., Los Angeles, Calif. Telephone cabinet. No. 61,444; Sept. 5.
Marvet, Henri, assignor to J. J. Sweeney Jewelry Co., Houston, Tex. Aviator's badge. No. 61,445; Sept. 5.
Meell, George A., assignor to Bailey, Banks & Biddle Co., Philadelphia, Pa. Class ring. No. 61,446; Sept. 5.
Moynihan, Owen, Cleveland, Ohio. Pneumatic-tire tread. No. 61,447; Sept. 5.
Raymond, Daniel, assignor to Garden City Pottery Company, Inc., San Jose, Calif. Flowerpot. No. 61,448; Sept. 5.
Schlepp, Morris, New York, N. Y. Ceiling canopy. No. 61,450; Sept. 5.
Schlepp, Morris, New York, N. Y. Chandelier plate. No. 61,449; Sept. 5.
Schmidt, Gustave F., Chicago, Ill. Gas heater. No. 61,451; Sept. 5.
Smart, Howard E., Omaha, Nebr. Emblem or badge. No. 61,452; Sept. 5.
Standard Wall Paper Co. (See Ericson, Emile, assignor.)
Sweeney, J. J., Jewelry Co. (See Marvet, Henri, assignor.)
Todd, Dudley M., assignor to Dryden Rubber Company, Chicago, Ill. Rubber sole. No. 61,453; Sept. 5.
Todd, Dudley M., assignor to Dryden Rubber Company, Chicago, Ill. Rubber heel. No. 61,454; Sept. 5.
Verber, Albert, New York, N. Y. Ring. No. 61,455; Sept. 5.
Wadsworth Watch Case Company, The. (See Williams, Lois M., assignor.)
Williams, Lois M., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase crown. No. 61,456; Sept. 5.
Woodrow, Frank S., New York, N. Y. Advertising device. No. 61,457; Sept. 5.
Worth, Paul, Akron, assignor to The India Tire and Rubber Company, Mogadore, Ohio. Tire tread. No. 61,458; Sept. 5.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abner-Drury Company, Washington, D. C. Ginger ale. No. 158,371; Sept. 5.
Acme Apparatus Company, Cambridge, Mass. Radio receiving sets. No. 158,372; Sept. 5.
Adjuria Incorporated, Washington, D. C., and New York, N. Y. First-aid kits. No. 158,373; Sept. 5.
Alinali Manufacturing Company, Worcester, Mass. Interior wall woodwork finish. No. 158,374; Sept. 5.
American Fruit Products Company. (See Earle, Walter K.)
American Homing Company, Indianapolis, Ind., and Decatur, Ill. Table sirup. No. 158,375; Sept. 5.
American Pine Products Corporation, New York, N. Y. Flotation oil. No. 158,376; Sept. 5.
American Shearer Manufacturing Company, Nashua, N. H. Certain hair clippers for toilet use. No. 22,067; renewed Nov. 29, 1922.
American-Swiss Watch Co. Inc., Peekskill, N. Y. Watches, watch movements, watchcases, and parts thereof. No. 158,377; Sept. 5.
American Wringer Company, The, Providence, R. I., New York and Auburn, N. Y. Wringers. Nos. 22,224–6; renewed Dec. 20, 1922.
Anstadt, C. A., doing business as The I. X. L. Drug Company, Ridgway, Pa. Cough sirup. No. 158,378; Sept. 5.
Art Metal Toy Company, New Brunswick, N. J. Certain toys. No. 158,379; Sept. 5.
Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. No. 158,380; Sept. 5.
Atlantic Comb Works, New York, N. Y. Hair, cloth, flesh, and nail brushes. No. 158,381; Sept. 5.
Averill Mfg. Corp., New York, N. Y. Dolls. No. 158,382; Sept. 5.
Baker Brush Co., Inc., New York, N. Y. Paintbrushes. No. 158,383; Sept. 5.
Baker, John A., doing business as Master-Camph Co., Minneapolis, Minn. Salve. No. 158,384; Sept. 5.
Barber, W. H., Co., Minneapolis, Minn. Gasoline. No. 158,385; Sept. 5.
Bengue, Jules B., Paris, France. Certain medicinal preparations. No. 158,574; Sept. 5.
Berry Brothers, Detroit, Mich. Varnishes. No. 158,386; Sept. 5.
Bethesda Mineral Spring Company, Waukesha, Wis. Carbonated and natural mineral water and ginger ale. No. 22,405; renewed Jan. 31, 1923.
Bettalyte Incandescent Lamp Co., Inc., New York, N. Y. Incandescent electric lamps. No. 158,387; Sept. 5.
Bible Land Cigar Company. (See Morrier, Hormisdas.)
Bins, Edward G., Los Angeles, Calif. Cough drops. No. 158,575; Sept. 5.
Birtman Electric Company, Chicago, Ill. Electric vacuum cleaners. No. 158,388; Sept. 5.
Bitu-Mo-Lin Products Co., Seattle, Wash. Veneer glue. No. 158,389; Sept. 5.
Blades, James L., doing business as The New Jersey Products Company, Woodcliff-on-Hudson, N. J. Certain toilet preparations. No. 158,390; Sept. 5.
Borgfeldt, George, & Co., New York, N. Y. Certain electric household appliances. No. 158,391; Sept. 5.
Bourne-Fuller Company, The. (See Upson Nut Company, The, assignor.)
Bowen, Edward J., doing business as The Genuine Crude Oil Company, New York, N. Y. Hair grower and shampoo. No. 158,392; Sept. 5.
Bragno & Mustari, Chicago, Ill. Olive oil. No. 158,393; Sept. 5.
Brooke, Benjamin, & Company, Philadelphia, Pa., assignor to Lever Brothers Company. Laundry soap. No. 21,676; renewed Aug. 23, 1922.
Brown & Pengilly, Los Angeles, Calif. Overload relays. No. 158,394; Sept. 5.
Buzz Syrup Co., Inc., Reading, Pa. Maltless-beverage sirups for soda fountains. No. 158,395; Sept. 5.
Cadillac Washing Machine Co., Chicago, Ill. Electrically-operated textile-fabric-washing machines. No. 158,396; Sept. 5.
Capital City Products Company, The, Columbus, Ohio. Butter. No. 158,397; Sept. 5.
Carbrox Company Inc., New Orleans, La. Decolorizing and activated carbons. No. 158,398; Sept. 5.
Carlisle Garment Co., The, Carlisle, Pa. Women's and children's dresses. No. 158,399; Sept. 5.
Carr, John B., Philadelphia, Pa. Certain medicinal and pharmaceutical preparations for use as a treatment for indigestion. No. 158,400; Sept. 5.
Celestial Chemical Company. (See Cogbill, Harvey P.)
Central Paint & Varnish Mfg. Co., Kansas City, Mo. Ready-mixed paints, paste paints, enamel paints, varnishes, and stains. No. 158,401; Sept. 5.
Champion Spark Plug Company, Toledo, Ohio. Spark plugs and parts thereof. No. 158,402; Sept. 5.
Charles William Stores Inc., The, Brooklyn, N. Y. Storage batteries. No. 158,403; Sept. 5.
Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making the same. Nos. 158,404–9; Sept. 5.
Chicago Graniline Manufacturing Company, Chicago, Ill. Stationary laundry tubs. Nos. 158,410–11; Sept. 5.
Chocolate Products Company, Baltimore, Md. Candy comprised wholly or in part of chocolate. No. 158,576; Sept. 5.
Cleveland Coatings Company, Cleveland, Ohio. Dry paints. No. 158,412; Sept. 5.
Cogbill, Harvey P., doing business as Celestial Chemical Company, Chicago, Ill. Face creams. No. 158,413; Sept. 5.
Columbian Bronze Corporation, Freeport and New York, N. Y. Self-contained electric generator apparatus. No. 158,414; Sept. 5.
Colwell, H. R., Washington, D. C. Toy animals, toy balloons, and barking and sounding toys. No. 158,415; Sept. 5.
Confederated Onion Growers Association, Portland, Oreg. Raw onions. No. 158,416; Sept. 5.
Continental Battery Company, St. Louis, Mo. Lead battery plates. No. 158,417; Sept. 5.
Co-Operative Foundry Company, Rochester, N. Y. Stoves, ranges, and furnaces. No. 22,052; renewed Nov. 22, 1922.
Cross, Henry H., Company, Chicago, Ill. Gasoline, naphtha, fuel oils, kerosene, etc. No. 158,418; Sept. 5.
Crown Brewing Co. Inc., The, Cincinnati, Ohio. Non-intoxicating, malt, cereal, and hop beverage. No. 158,419; Sept. 5.
D'Anna, John, New York, N. Y. Medicine for general tonic purposes, especially for rheumatism. No. 158,420; Sept. 5.
D-Rex-U Safety Signal Company, Kansas City, Mo. Electrically-operated visible traffic signals for use on automotive vehicles. No. 158,427; Sept. 5.
Davis, Wm. D., doing business as Standard Medical Company, Lansford, Pa. Ointment for the treatment of rheumatism and neuralgic pain. No. 158,421; Sept. 5.
Davison, Henry C., New York, N. Y. Impression paper. No. 21,868; renewed Oct. 18, 1922.
Dayton Pump & Manufacturing Company, The, Dayton, Ohio. Certain electrical apparatus. No. 158,422; Sept. 5.
Delta-Star Electric Company, Chicago, Ill. Certain electrical apparatus. No. 158,423; Sept. 5.
De Morales, Fidelia M., San Francisco, Calif. Preparation for treatment of ulcerous wounds of long standing. No. 158,425; Sept. 5.
Dickinson, Albert, Company, The, Chicago, Ill. Shelled pop corn. No. 22,343; renewed Jan. 17, 1923.
Ditzler Color Company, Detroit, Mich. Automobile finishes. No. 158,426; Sept. 5.
Dorothy Perkins Toilet Goods Company. (See Isaacs, Tula E.)
Dover Manufacturing Company, The, Dover, Ohio. Electrical heating elements for sadirons, branding and soldering irons. No. 158,424; Sept. 5.
Driver-Harris Company, Harrison, N. J. Heater cords. No. 158,428; Sept. 5.
E. A. Laboratories, Inc., Brooklyn, N. Y. Electrical warning signals. No. 158,477; Sept. 5.
Earle, Walter K., doing business as American Fruit Products Company, Chicago, Ill. Flavoring material for making a nonalcoholic fruit beverage. No. 158,429; Sept. 5.
Economy Fuse and Manufacturing Co., Chicago, Ill. Fuses. No. 158,430; Sept. 5.
Electrical & Specialty Supply Co., Chicago, Ill. Illuminated traffic markers for streets and roads. No. 158,431; Sept. 5.
Emido Company, Ltd., The, Liverpool, England. Vegetable flour. No. 158,432; Sept. 5.
Exene Laboratories, Boston, Mass. Ointment for skin diseases. No. 158,433; Sept. 5.
Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Certain medicinal preparation. No. 158,434; Sept. 5.
Federal Grocery Co., Los Angeles, Calif. Canned fruits, fish, and vegetables, spices, peanut butter, etc. No. 158,441; Sept. 5.
Ferguson, Robert, New York, N. Y. Bias tape. No. 158,435; Sept. 5.
Florence Manufacturing Company, Northampton, Mass. Tooth, hair, nail, flesh, and lather brushes. No. 158,437; Sept. 5.
Florence Manufacturing Company, Northampton, Mass. Toothbrushes. No. 158,436; Sept. 5.
Forbriger, Paul, & Co. (See Forbriger, Paul.)
Forbriger, Paul, doing business as Paul Forbriger & Co., New York, N. Y. Watches. No. 158,438; Sept. 5.
Fort Smith Garment Co., Fort Smith, Ark. Men's and boys' overalls, overall coats and pants. No. 158,540; Sept. 5.

Fowler, Green L., Clarksburg, Mo. Medicines for the cure of blood diseases. No. 22,114; renewed Dec. 6, 1922.
Frank & Co., Nashville, Tenn. Collars. No. 158,439; Sept. 5.
Freeman, A. Jay, Chicago, Ill. Liniment. No. 158,440; Sept. 5.
Garden Chemical Co., Inc., New York, N. Y. Insecticides. No. 158,442; Sept. 5.
Garlough and Nave, Springfield, Ohio. Insecticides. No. 158,577; Sept. 5.
Gasco Specialty Company, Inc., The, New York, N. Y. Nut-kernel paste. No. 158,443; Sept. 5.
Gebr. Zuppinger, Meilen, Switzerland. Beverages sold as a soft drink. No. 158,573; Sept. 5.
Gebrüder Siemens & Company, Berlin-Lichtenberg, Germany. Certain electrical apparatus. No. 158,444; Sept. 5.
Genuine Crude Oil Company, The. (See Bowen, Edward J.)
Gilbert, William L., Clock Company, Winsted, Conn. Clocks. No. 158,445; Sept. 5.
Grant, Angus, Edmonton, Alberta, Canada. Puncture-healing composition for pneumatic tires. No. 158,446; Sept. 5.
Grant, W. T., Company, New York, N. Y. Dry batteries. No. 158,447; Sept. 5.
Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. No. 158,449; Sept. 5.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Canned sardines. No. 158,448; Sept. 5.
H. and A. Accessories, Chicago, Ill. Spark-plug extension. No. 158,450; Sept. 5.
Harris, Meyer, doing business as Zoodack Manufacturing Co., Aiken, S. C. Salve for piles, burns, sore throat, etc. No. 158,451; Sept. 5.
Harter Mfg. Company, Chicago, Ill. Electric-lamp sockets, lamp cover sockets, and plugs. No. 158,452; Sept. 5.
Hathaway, Wellington C., doing business as Mississippi Bottling Co., Hattiesburg, Miss. Nonalcoholic, noncereal, maltless beverage sold as a soft drink. No. 158,578; Sept. 5.
Hayem, J., and Cie., Paris, France. Collars, cuffs, cravats, knitted and textile underwear for men and women, outer shirts for men. No. 158,453; Sept. 5.
Heal-o Products Co., Pittsburgh, Pa. Salve for boils, burns, etc. No. 158,454; Sept. 5.
Heller & Merz Company, The, Newark, N. J., and New York, N. Y. Direct color dyes. No. 158,579; Sept. 5.
Hirsch, Hiram H., Philadelphia, Pa. Ready-mixed paints. No. 158,455; Sept. 5.
Hoboken White Lead & Color Works, Inc., Hoboken, N. J. Paints, combination white lead, paint enamels, artists' colors. No. 158,456; Sept. 5.
Holmac, Inc., New York, N. Y. Golf balls. No. 158,458; Sept. 5.
Hopkins, Nevil M., New York, N. Y. Fireproof paints and varnishes. No. 158,459; Sept. 5.
I. N. L. Drug Company, The. (See Anstadt, C. A.)
Industrial Paint Company, Leitsdale Borough and Fair Oaks Borough, Pa. Dry paste and ready-mixed paints. No. 158,460; Sept. 5.
Ingersoll, Robt. H., & Bro., New York, N. Y. Watches and clocks. Nos. 158,461–2; Sept. 5.
Ingram, Frederick F., Company, Detroit, Mich. Pharmaceutical preparations. Nos. 158,463–4; Sept. 5.
Isaacs, Tula E., doing business as Dorothy Perkins Toilet Goods Company, Dallas, Tex. Face-cleansing and face creams, antiseptic beauty balm, hair tonic, hair-curling fluid. No. 158,465; Sept. 5.
Jacobi, Harry E., Baltimore, Md. Chronometers, watches, clocks, wrist watches, and sautoir watches. No. 158,466; Sept. 5.
Jads Salts Company, Jersey City, N. J. Granular effervescent salt. No. 158,467; Sept. 5.
Jerome Thibouville-Lamy & Cie., successor. (See Jerome Thibouville-Lamy.)
Jerome Thibouville-Lamy, Paris, France; Jerome Thibouville-Lamy & Cie., successor. Musical instruments. Nos. 21,291–2; renewed June 14, 1922.
Juvenile Shoe Corporation of America, The, Carthage, Mo. Leather boots and shoes. No. 158,468; Sept. 5.
Karp, Joseph H., New York, N. Y. Hair bleach. No. 158,469; Sept. 5.
Katz & Ogush, Inc., New York, N. Y. Watches and watch movements. No. 158,470; Sept. 5.
Keith-Landis Corporation, Chicago, Ill. Clocks and watches. No. 158,471; Sept. 5.
Kimberly Club Sherry Co., New York, N. Y. Nonalcoholic, noncereal, maltless beverage sold as soft drinks and sirup for same. No. 158,580; Sept. 5.
Knox Motors Company, Springfield, Mass. Electric dish-washing machines. No. 158,472; Sept. 5.
Kohnstamm, H., & Co., New York, N. Y. Union and acid dyes. No. 158,473; Sept. 5.
Kozlowski, Frank J., Detroit, Mich. Proprietary medicines. No. 158,474; Sept. 5.
Krauss, Herman, Toledo, Ohio. Malt extracts. No. 158,475; Sept. 5.
Kuroris Supply Company, New York, N. Y. Dental tools and appliances. No. 158,476; Sept. 5.
Lever Brothers Company. (See Brooke, Benjamin & Company, assignor.)
Levy Shulman and Co., Inc., New York, N. Y. Ladies' and misses' dresses. No. 158,538; Sept. 5.
Lewis, Henrietta, Chicago, Ill. Face creams. No. 158,478; Sept. 5.
Light-Sight Products Corporation, Pierre, S. Dak., and Warren, Pa. Electric lamp. No. 158,479; Sept. 5.
Little Wonder Electric Heater Company. (See Nitch, Rudolf.)
Lockwood, Aleatha H., Hartford, Conn. Corsets, hose supporters, abdominal belts, brassières, etc. No. 158,480; Sept. 5.
Lournay, Inc., New York, N. Y. Rouge, cold cream, lip sticks, toilet water, talcum powder, and perfume. Nos. 158,481–4; Sept. 5.
Loveland, Arthur S., doing business as Paradise Appliance Company. Electric dish-washing machines. No. 158,485; Sept. 5.
McCrary, John N., High Point, N. C. Cigars made of various tobaccos. No. 158,510; Sept. 5.
McCreery, James, & Company, New York, N. Y. Clocks. No. 158,486; Sept. 5.
McDonnell, Edw., & Co. (See McDonnell, Edward.)
McDonnell, Edward, doing business as Edw. McDonnell & Co., Smiths Ferry, Pa. Internal medicine for the relief of asthma, croup, etc. No. 158,487; Sept. 5.
Mack, O. C., and Co. (See Mack, Oscar C.)
Mack, Oscar C., doing business as O. C. Mack and Co., St. Louis, Mo. Chemical for testing woolen and silk fabrics. No. 158,581; Sept. 5.
Magnavox Company, The, Oakland, Calif. Telephone and radio receiving sets. Nos. 158,488–90; Sept. 5.
Magnus Electric Co. Inc., New York, N. Y. Electrical plugs, attachment plugs, caps, etc. No. 158,491; Sept. 5.
Manhattan Rubber Mfg. Co., The, Passaic, N. J. Rubber soles and heels. No. 158,501; Sept. 5.
Markman, Simon, New York, N. Y. Face and lip rouge. No. 158,492; Sept. 5.
Markman, Simon, New York, N. Y. Cosmetic for treating the eyebrows. No. 158,493; Sept. 5.
Marshall Field & Company, Chicago, Ill. Alarm clocks. No. 158,494; Sept. 5.
Martin and Martin, Chicago, Ill. Men's, women's and children's leather shoes. No. 158,500; Sept. 5.
Mi Favorita Cigar Company, Inc., New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco. No. 158,495; Sept. 5.
Mississippi Bottling Co. (See Hathaway, Wellington C.)
Monitor Controller Company, Baltimore, Md. Electrical switches. No. 158,496; Sept. 5.
Moore, Kenneth W., Chicago, Ill. Deodorants. No. 158,497; Sept. 5.
More, Walter H., Co., Inc., New York, N. Y. Shoes. No. 158,502; Sept. 5.
Morrier, Hormisdas, doing business as Bible Land Cigar Company, Portsmouth, N. H. Manufactured cigars. Nos. 158,503–4; Sept. 5.
Morse and Burt Co., Inc., Brooklyn, N. Y. Shoes. No. 158,505; Sept. 5.
Morse Manufacturing Company, Inc., Newark, N. J. Radio receiving apparatus. No. 158,498; Sept. 5.
Mortona Medicine Co. (See Swinburne, Arthur H.)
Mulford, H. K., Company, Philadelphia, Pa. Syringes for medical purposes. No. 158,499; Sept. 5.
Murphy, Mark J., Chicago, Ill. Malt extract. No. 158,506; Sept. 5.
Muster-Camph Co. (See Baker, John A.)
N. and H. Company, Kansas City, Kans. Vermifuge. No. 158,507; Sept. 5.
National Stamping & Electric Works, Chicago, Ill. Certain electrical devices. No. 158,508; Sept. 5.
New Jersey Products Company, The. (See Blades, James L.)
Nitch, Rudolf, doing business as Little Wonder Electric Heater Company, Cleveland, Ohio. Electric heaters for printing presses. No. 158,509; Sept. 5.
Nuradium Company, Chicago, Ill. Restorative and constructive tonic remedy. No. 158,512; Sept. 5.
Paradise Appliance Company. (See Loveland, Arthur S.)
Paramount Knitting Company, Chicago, Ill. Hosiery. No. 158,513; Sept. 5.
Parke, Davis & Company, Detroit, Mich. Buttermilk tablets for making artificial buttermilk. No. 158,514; Sept. 5.
Passavant & Co., New York, N. Y. Satin and velvet ribbons. No. 21,711; renewed Aug. 30, 1922.
Pattern Manufacturing Company, Chattanooga, Tenn. Spark plugs. No. 158,515; Sept. 5.
Patterson and Hoffman, Oklahoma, Okla. Cigars. No. 158,516; Sept. 5.
Paxton & Gallagher Co. (See Paxton & Gallagher, assignors.)
Paxton & Gallagher, Omaha, Nebr., assignor to Paxton & Gallagher Co. Tea. Nos. 21,267–8; renewed June 7, 1922.
Paxton & Gallagher, Omaha, Nebr., assignor to Paxton & Gallagher Co. Tea. No. 21,847; renewed Oct. 4, 1922.
Paxton & Gallagher, Omaha, Nebr., assignor to Paxton & Gallagher Co. Tea. No. 21,941; renewed Nov. 8, 1922.
Peerless Light Company, Chicago, Ill. Electric-lighting sets for Christmas trees. No. 158,517; Sept. 5.
Pett Products Co. (See Petterson, Holger.)
Petterson, Holger, doing business as Pett Products Co., Chicago, Ill. Cough drops and cough candy. No. 158,457; Sept. 5.

Philadelphia Steam Heating Co., Philadelphia, Pa. Automatically electrically controlled draft devices for heating apparatus. No. 158,518; Sept. 5.
Poultry Producers of Central California, Inc., San Francisco, Calif. Eggs. No. 158,582; Sept. 5.
Press, I., & Sons, Philadelphia, Pa. Watches. No. 158,519; Sept. 5.
Racine Electric Co., Racine, Wis. Electric motors. No. 158,520; Sept. 5.
Raisin Products Co. of America, The, New York, N. Y. Tablets for treatment of anæmia, loss of appetite, and as a general tonic. No. 158,522; Sept. 5.
Rat Biscuit Company, The, Springfield, Ohio. Rat, mice, and insect poison. No. 158,521; Sept. 5.
Reid, Murdoch & Co., Chicago, Ill. Cigars. No. 158,523; Sept. 5.
Remington Salt Company, Ithica, N. Y. Salt. No. 158,583; Sept. 5.
Remy, Albert F., & Co., Mansfield, Ohio. Canned fruits, vegetables, fish, meat, oysters, catsup, and soup. No. 22,399; renewed Jan. 31, 1923.
Roberts, Ward P., Milford, Mass. Cigars. No. 158,532; Sept. 5.
Robinson, James S., Memphis, Tenn. Medicinal preparation for diseases of the liver, stomach, or bowels. No. 22,266; renewed Dec. 27, 1922.
Rogers, Karl H., Philadelphia, Pa. Pliable bendable doll. No. 158,524; Sept. 5.
Root, Charles F., doing business as Suaveline Mfg. Co., New York, N. Y. Lotion for dressing the hair. No. 158,525; Sept. 5.
Rose, Dwight C., Cambridge, Mass. Medicated confection useful in stimulating the process of digestion. No. 158,526; Sept. 5.
Safety-ette Razor Company. (See White, J. Loren.)
Sargoy Bros., Brooklyn, N. Y. Washboilers. No. 158,528; Sept. 5.
Schaefer, Eugene J., Dayton, Ohio, executor of the estate of Joseph J. Schaefer, deceased, doing business as Joseph J. Schaefer. Cigars. No. 158,529; Sept. 5.
Schaefer, Joseph J. (See Schaefer, Eugene J.)
Scholl Manufacturing Company, The, Chicago, Ill. Preparations for use in the treatment of foot troubles. Nos. 158,584–5; Sept. 5.
Schranck, H. C., Co., Milwaukee, Wis. Beverages sold as soft drinks. No. 158,530; Sept. 5.
Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 158,531; Sept. 5.
Scott, Lester E., trading as L. E. Scott Co., Southington, Conn. Furniture polish. No. 158,533; Sept. 5.
Sénégas, Jean, New York, N. Y. Cosmetics, particularly solutions for lightening the hair. No. 158,586; Sept. 5.
Sensat, G., Hijos, Barcelona, Spain. Olive oil. No. 158,534; Sept. 5
Sexton, John, and Company, Chicago, Ill. Lubricating oils and greases. No. 158,535; Sept. 5.
Sharlin, Solomon, Trenton, N. J. Electric-lighting fixtures and parts. No. 158,536; Sept. 5.
Sharp, John, doing business as She-ll Fire Spark Plug Co., Cleveland, Ohio. Ignition accessories. No. 158,537; Sept. 5.
She-ll Fire Spark Plug Co. (See Sharp, John.)
Siebert, Otto W., Gardner, Mass. Velocipedes. No. 158,539; Sept. 5.
Smith, Jane B., doing business as Jane B. Smith, Chicago, Ill. Salad dressing, foods, and ingredients of foods. No. 158,541; Sept. 5.
Société Anonyme des Anciens Etablissements Muyile-Facon Rouiers, Belgium. Putty, paints, and varnishes. No. 158,542; Sept. 5.
Society of Chemical Industry in Basle, Basel, Switzerland. Chemical and pharmaceutical preparation. No. 158,543; Sept. 5.
Square D Company, Detroit, Mich. Porcelain insulating devices. No. 158,544; Sept. 5.
Standard Medical Company. (See Davis, Wm. D.)
Star Sporting Goods Co., New York, N. Y. Gunning coats. No. 158,545; Sept. 5.
Ste. Ame. des Industries Chimiques Wilsele, Wilsele-lez-Louvain, Belgium. Chemicals and paints, more particularly lithophone, permanent zinc paint. No. 158,546; Sept. 5.
Stein & Ellbogen Company, Chicago, Ill. Watches. No. 158,547; Sept. 5.
St. Louis Brass Mfg. Co., St. Louis, Mo. Electric-lighting fixtures. No. 158,548; Sept. 5.
Suaveline Mfg. Co. (See Root, Charles F.)
Swinburne, Arthur H., doing business as Mortona Medicine Co., Middletown, N. Y. Medicine for the treatment of the stomach, liver, etc. No. 158,549; Sept. 5.
Tomson, P. C., & Co., Philadelphia, Pa. Lye. No. 158,550; Sept. 5.
Tracy-Waldron Fruit Company, Lodi, Calif. Fresh grapes. No. 158,587; Sept. 5.
U & J Carburetor Company, The, Chicago, Ill. Timers for internal-combustion engines. No. 158,551; Sept. 5.
U. S. Automobile Indicator Co., The, Bridgeport, Conn. Electric signal and tail lights for use on automobiles. No. 158,552; Sept. 5.
United Drug Company, Boston, Mass. Toothbrushes. Nos. 158,553–4; Sept. 5.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Cement such as is used in the manufacturing and repairing of boots and shoes. No. 158,555; Sept. 5.
United States Dental Manufacturing Co., The, Cleveland, Ohio. Dental tools. Nos. 158,556–7; Sept. 5.
United Vegetable Oil Refinery, Inc., Brooklyn, N. Y. Coconut oil for general purposes. No. 158,558; Sept. 5.
Upson Nut Company, The, Unionville, Conn., assignor to The Bourne-Fuller Company, Cleveland, Ohio. Bolts for carriages, machines, plows, etc. No. 20,628; renewed Jan. 19, 1922.
Van Dyk & Lindsay Inc., New York, N. Y. Tunis dates, Colmer grapes, Muscatel grapes, and Belgian endives. No. 158,559; Sept. 5.
Virden Packing Company, Oakland, Calif. Canned fruits and vegetables. Nos. 158,560–2; Sept. 5.
Waterbury Metal Wares Co., The, Waterbury, Conn. Portable electric lamps. No. 158,563; Sept. 5.
Waugh, James H., doing business as Waughrine Medicine Co., Washington, D. C. Liniment for use in treatment of rheumatism. No. 158,564; Sept. 5.
Waughrine Medicine Co. (See Waugh, James H.)
Way-Lite Reflector Company, The, Cleveland, Ohio. Reflectors for preventing glare for electric headlights. No. 158,565; Sept. 5.
Weaver, Walter T., Highland, N. Y. Fresh fruits put up in barrels, boxes, and crates. No. 158,566; Sept. 5.
Western Clock Co., Peru, Ill. Clocks, watches and component parts thereof. No. 158,567; Sept. 5.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio telephone and telegraph transmitters and receivers, etc. No. 158,568; Sept. 5.
Westinghouse Union Battery Co., Swissvale, Pa. Battery chargers and electrical rectifiers. No. 158,569; Sept. 5.
White, J. Loren, doing business as Safety-ette Razor Company, Los Angeles, Calif. Safety razors. No. 158,527; Sept. 5.
Zimsser, William, & Company Incorporated, New York, N. Y. Varnish. Nos. 158,570–1; Sept. 5.
Zolla, Max A., Chicago, Ill. Watches. No. 158,572; Sept. 5.
Zoodack Manufacturing Co. (See Harris, Meyer.)

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Abbate, Salvatore, doing business as Premier Sugar Cone and Wafer Company, Newport Beach, Calif. "Abbate's Pastry Wafer Chocolate Coated." (For Wafers and Chips of Pastry or Candy and Which are Coated with Chocolate or Other Similar Edible Substance.) No. 24,984; Sept. 5.
American Ammone Company, New York, N. Y. "Fyr-Fruf." (For Packages Containing Stove and Nickel Polish.) No. 24,985; Sept. 5.
Atlantic Canning Company, Rehoboth Beach, Del. "Bambino Brand." (For Tin Cans Containing Tomato Paste.) No. 24,986; Sept. 5.
Beck, Anne D., Milton, Mass. "Knoll Gardens Products." (For Garden Products.) No. 24,987; Sept. 5.
B. F. Bond Paper Co., The, Baltimore, Md. "Southern Silk Tissue." (For Toilet Paper.) No. 24,990; Sept. 5.
B. F. Bond Paper Co., The, Baltimore, Md. "Ruxton Silk Tissue." (For Toilet Paper.) No. 24,991; Sept. 5.
Blanke-Wenneker Candy Co., St. Louis, Mo. "Wild Wave Chocolates." (For Candies.) No. 24,988; Sept. 5.
Blatz, Louis, La Mirada, Calif. "Peg O' Me Heart." (For a Game of Solataire.) No. 24,989; Sept. 5.
Bon-Ton Bakery. (See Kohn, Ad.)
Brehme, Fred, doing business as Brehme Products Co., Irvington, N. J. "Brehme's Chocolate Pudding." (For a Preparation for Making Chocolate Pudding.) No. 24,992; Sept. 5.
Brehme Products Co. (See Brehme, Fred.)
Chambley, Alexander, doing business as Gem Bronze Ink Co., Philadelphia, Pa. "Bronze Ink Varnish." (For Bronze Ink Varnish and Gold Ink Powder.) No. 24,993; Sept. 5.
Continental Paper & Bag Mills, New York, N. Y. "Snowflake Pop Corn." (For Pop-Corn Bags.) No. 24,994; Sept. 5.
Gair, Robert, Company, New York, N. Y. "Chocolates." (For Candy.) No. 24,995; Sept. 5.
Gair, Robert, Company, New York, N. Y. "Hard Candies." (For Candy.) No. 24,996; Sept. 5.
Gem Bronze Ink Co. (See Chambley, Alexander.)
Glemby, S., Inc. (now by change of name S. Glemby's Sons Co., Inc.), New York, N. Y. "Mila." (For Boxes, Packages, or Envelopes Containing Hair Nets.) No. 24,997; Sept. 5.
Glemby, S., Inc. (now by change of name S. Glemby's Sons Co., Inc.), New York, N. Y. "Camilla Hair Net." (For Hair Nets.) No. 24,998; Sept. 5.

Glemby, S., Inc. (now by change of name S. Glemby's Sons Co., Inc.), New York, N. Y. "Sophia." (For Boxes, Packages, or Envelopes Containing Hair Nets.) Nos. 24,999–25,000; Sept. 5.
Glemby, S., Inc. (now by change of name S. Glemby's Sons Co., Inc.), New York, N. Y. "Regina." (For Boxes, Packages, or Envelopes Containing Hair Nets.) No. 25,001; Sept. 5.
Glemby's, S., Sons Co. (See Glemby, S., Inc.)
Gelmby's, S., Sons Co., Inc., New York, N. Y. "Jean Double Strand Hair Net." (For Hair Nets.) No. 25,002; Sept. 5.
Glemby's, S., Sons Co., Inc., New York, N. Y. "Pink Lady Hair Net." (For Hair Nets.) No. 25,003; Sept. 5.
Glemby's, S., Sons Co. Inc., New York, N. Y. "The Tulip Hair Net." (For Hair Nets.) No. 25,004; Sept. 5.
Glemby's, S., Sons Co., Inc., New York, N. Y. "Moore's Single Strand Hair Net." (For Hair Nets.) No. 25,005; Sept. 5.
Glemby's, S., Sons Co., Inc., New York, N. Y. "The Symphony Hair Net." (For Hair Nets.) No. 25,006; Sept. 5.
Goodrich, J. M., Aberdeen, S. Dak. "South Dakota Seal." (For Cigars.) No. 25,007; Sept. 5.
Hargrave, T. A., Dallas, Tex. "Red Devil Rat And Mouse Embalmer." (For Rat Poison.) No. 25,008; Sept. 5.
Hirschler & Co. (See Hirschler, Lee M.)
Hirschler, Lee M., doing business as Hirschler & Co., Cincinnati, Ohio. "Grape-Ade." (For Grape-Flavored Sirup.) No. 25,009; Sept. 5.
Hydrox Chemcal Co. of Illinois, Chicago, Ill. "Savoly K Y X." (For Nail Polish.) No. 25,010; Sept. 5.
Jevne, H., Co., Los Angeles, Calif. "Jevne's." (For Chocolates.) Nos. 25,011–13; Sept. 5.
Katz, Sigmund, New York, N. Y. "The K R Pure Malt Extract." (For Cans Containing Pure Malt Extracts.) No. 25,014; Sept. 5.
Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Shredded Whole Wheat Biscuit." (For a Food Specifically Known as Kellogg's Shredded Whole-Wheat Biscuit.) No. 25,015; Sept. 5.
Koffee-O Cereal Co., Tacoma, Wash. "Koffee-O." (For a Cereal Food Drink.) No. 25,016; Sept. 5.
Kohn, Ad., doing business as Bon-Ton Bakery, Austin, Tex. "Bon Ton." (For Bread.) No. 25,017; Sept. 5.
McQuay-Norris Mfg. Co. of Indiana, Inc., Connersville, Ind. "Wainwright Pistons." (For Pistons.) No. 25,019; Sept. 5.
Mar-Bon Medicine Co., St. Louis, Mo. "Pyrolac Pyorrhea Remedy." (For Tooth Paste.) No. 25,018; Sept. 5.
Pain, Henry J., New York, N. Y. "Pain's Saluting The Flag." (For Fireworks, and More Particularly on the Boxes and Wrapper in Which the Said Fireworks are Packed.) No 25,020; Sept. 5.
Premier Sugar Cone and Wafer Company. (See Abbate, Salvatore.)
Pritchard & Constance, Inc., New York, N. Y. "Amami Bath Powder." (For Powder.) No. 25,021; Sept. 5.
Universal Products Co., Los Angeles, Calif. "Hi-Glo." (For a Polish for Hardwood Floors, White Woodwork, Furniture, Pianos, Oil Paintings, Automobiles.) No. 25,022; Sept. 5.
Walther, Louis, Manufacturing Company, Philadelphia, Pa. "Challaine." (For Textile Fabrics.) No. 25,023; Sept. 5.
White, R. D., Los Angeles, Calif. "Lucky 13." (For Containers of Medicine Used as a Bowel Regulator.) No. 25,024; Sept. 5.
White & Wyckoff Mfg. Co., Holyoke, Mass. "Linen Torchon Fabric Finish." (For Boxes of Stationery, Writing Tablets, Pound Papers, and Envelopes.) No. 25,025; Sept. 5.
W. F. Young, Inc., Springfield, Mass. "Absorbine, Jr. The Antiseptic Liniment." (For Absorbine, Jr. Liniment.) No. 25,026; Sept. 5.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Lead Pencil Company, New York, N. Y. "Ink-Eau Indelible Duplicating Pencil." (For Advertising Purposes for Indelible Pencils.) No. 6,293; Sept. 5.
Cream of Wheat Co., Minneapolis, Minn. "'The Filling Station.'" (For Advertising Purposes for Wheat Breakfast Food.) No. 6,294; Sept. 5.
Elgin National Watch Company, Chicago, Ill. "The Value of Time." (For Advertising Purposes for Watches.) No. 6,295–8; Sept. 5.
Genesee Pure Food Company, The Le Roy, N. Y. "The Plum Pudding." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 6,299; Sept. 5.
Hinckley-Myers Co., Jackson, Mich. "Repair Tool Instruction Chart for Car, Truck, and Tractor." (For Advertising Purposes for Tools to be Used in Connection with the Various Parts of an Automobile and for Instruction to the Parties Using Such Tools to Save Time and Secure Accuracy.) No. 6,300; Sept. 5.
Milwaukee Paper Box Company, Milwaukee, Wis. "Spuds." (For Advertising Purposes for a Candy Specialty.) No. 6,301; Sept. 5.
Palmolive Company, The, Milwaukee, Wis. "Are you giving your hair the right treatment?" (For Advertising Purposes for Palmolive Shampoo.) No. 6,302; Sept. 5.
Rouzette Company, Cincinnati, Ohio. "Rouzette." (For Advertising Purposes for a Game.) No. 6,303; Sept. 5.
Thompson, Anna E., Washington, D. C. "'Say Buick.'" (For Advertising Purposes for Automobiles.) No. 6,304; Sept. 5.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A. & J. Manufacturing Co., The, Binghamton, N. Y. Kitchen and household tools or utensils. No. 158,743; Sept. 5.
Alden Walker & Wilde, Incorporated, East Weymouth, Mass. Leather shoes. No. 159,643; Sept. 5.
Altruda, Pasquale, Providence, R. I. Rubber heels. No. 162,793; Sept. 5.
American Nicotine Company, Henderson, Ky. Fumigating, spraying, and dipping preparations. No. 161,293; Sept. 5.
American Nonseal Works, Inc., New York, N. Y. Tape-serving device. No. 161,104; Sept. 5.
American Steel & Wire Company. (See American Steel & Wire Company of New Jersey.)
American Steel & Wire Company of New Jersey, The, doing business as American Steel & Wire Company, Cleveland, Ohio. Wire for baling, bundling, and strapping, barbed wire, etc. No. 144,495; Sept. 5.
Argus Manufacturing Company, The, Cleveland, Ohio. Ready-mixed paint, varnish, and paint enamel. No. 158,813; Sept. 5.
Auto Electric Air Feed, Inc., Chicago, Ill. Automatic fuel-feed regulators for internal-combustion engines. No. 161,955; Sept. 5.
Ayling & Reichert Co., The, Toledo, Ohio. Chambered floats for use with float valves. No. 161,716; Sept. 5.
Barnard, Geo. D., Stationery Company, St. Louis, Mo. Writing paper. No. 165,653; Sept. 5.
Bastian-Morley Co., Laporte, Ind. Gas water heaters. No. 153,968; Sept. 5.
Bauhofer, John, Louisville, Ky. Cigars. No. 164,155; Sept. 5.
Beldam Asbestos Company Limited, London, England. Asbestos engine packings. No. 162,660; Sept. 5.
Benjamin, P. U., & Co., Natchez, Miss. Cigars. No. 164,097; Sept. 5.
Billstein-Feierman Co., Cleveland, Ohio. Hosiery, knit goods, gloves, caps, shirts, etc. No. 157,655; Sept. 5.
Bing Werke vorm. Gebrüder Bing A.-G., Nuremberg, Germany. Toys, particularly boxes with building elements. No. 141,057; Sept. 5.
Borgfeldt, George, & Co., New York, N. Y. Dolls. No. 153,280; Sept. 5.
Borsum Bros., New York, N. Y., and Jersey City, N. J. Metal polish. No. 137,512; Sept. 5.
Buob and Scheu, Cincinnati, Ohio. Automobile tops and curtains. No. 124,640; Sept. 5.
Casey, Dennis A., New Orleans, La. Paving mixture. No. 160,394; Sept. 5.
Causey, Guy M., The Dalles, Oreg. Beverage sold as soft drink and sirup for making same. No. 165,438; Sept. 5.
Chemische Werke vorm. H. & E. Albert, Amöneburg, near Biebrich, Germany. Chemical preparations for the extirpation and killing of vermin, plant pests, and weeds, disinfectants, etc. No. 153,585; Sept. 5.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. Nos. 159,924–5; Sept. 5.
Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. Nos. 159,929–31; Sept. 5.
Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. Nos. 159,933–4; Sept. 5.
Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. No. 159,938; Sept. 5.
Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. Nos. 159,940–2; Sept. 5.
Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. No. 159,944; Sept. 5.
Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. No. 159,946; Sept. 5.
Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. Nos. 159,949–50; Sept. 5.
Chocolate Products Company, Baltimore, Md. Publications issued monthly. No. 164,368; Sept. 5.
Clark & Leonard, New York, N. Y. Calendar desk pads. No. 164,492; Sept. 5.
Cockatoo Preserves Limited, doing business as Manufacturers, Collingwood, Victoria, Australia. Anchovy essence, coffee essence, cheese, canned fruits, etc. No. 120,909; Sept. 5.
Connecticut Metal & Chemical Co., The, East Berlin, Conn. Bearing type and white metals, solders, and white-metal alloys. No. 153,537; Sept. 5.
Consolidated Iron-Steel Manufacturing Company, The, Cleveland, Ohio. Oil-lamp stoves. Nos. 161,299–300; Sept. 5.
Cortland Line Co. Inc., Cortland, N. Y. Japan-silk fishing lines. No. 164,389; Sept. 5.
Crawford Manufacturing Co. Inc., Richmond, Va. Recovers for vehicle tops, curtains for vehicles, covers for vehicle seats and doors, etc. No. 143,851; Sept. 5.
Davis, J. R., doing business as Rex Manufacturing Co., Clarksburg, W. Va. Piston rings. No. 164,028; Sept. 5.
Dickinson, Mary B., Boston, Mass. Dolls, dolls' clothing and bedding. No. 163,971; Sept. 5.
Dieman, A. P., doing business as O. K. Extract Supply Company, Milwaukee, Wis. Malt sirup. No. 149,322; Sept. 5.
Dillmore, Richard C., Philadelphia, Pa. Beverages sold as soft drinks and sirups for making same. No. 166,352; Sept. 5.
Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. No. 160,190; Sept. 5.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Lead pencils. No. 150,223; Sept. 5.
Donnelly, Julia, doing business as Vi-Tabs Co., New York, N. Y. Medicinal tablets containing vitamines. No. 147,956; Sept. 5.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Adhesive, waterproof adhesive, adhesive belt, adhesive leather, and household cements. No. 167,284; Sept. 5.
Eastbay Chemical Company, Emeryville, Calif. Insecticides, fungicides, and disinfectants. No. 129,704; Sept. 5.
Eberwein & Zahrndt, Rochester, N. Y. Letter files. No. 164,036; Sept. 5.
Elikop System Inc., Boston, Mass. Loose-leaf budget system. No. 161,306; Sept. 5.
Evans, S. W., & Son, Philadelphia, Pa. Umbrella and parasol ribs. No. 164,406; Sept. 5.
Fairfacts Company, The, New York, N. Y. Soap, tumbler, roll-paper, etc., holders, grab rails, shelves, etc. No. 157,365; Sept. 5.
Ferdon, William S., doing business as Mem-O-ette Co., Omaha, Nebr. Blank business forms for receiving indicia and memorandum pads. No. 164,241; Sept. 5.
Field, Alfred, & Co., Inc., New York, N. Y. Knives, shears, straight trimmers, scissors, etc. No. 157,609; Sept. 5.
Field, Armstead W., Philadelphia, Pa. Feet warmers. No. 163,926; Sept. 5.
Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber tires for bicycles, carriages, and automobiles. No. 163,676; Sept. 5.
Foster, Merriam, & Company, Meriden, Conn. Metallic piston rings. No. 162,107; Sept. 5.
Freudenberger, Robert L., Cleveland, Ohio. Grease and oil guns and parts thereof. No. 160,054; Sept. 5.
Fuller Brush Company, The, Hartford, Conn. Crumb trays, crumb scrapers, and sink scrapers. No. 162,103; Sept. 5.
George Paper Corporation, The, Albany, N. Y. Toilet paper, paper towels, and paper napkins. No. 162,404; Sept. 5.
Gilbert Paper Co., Menasha, Wis. Ledger and bond papers. No. 162,813; Sept. 5.
Gorton, Buel L., Battle Creek, Mich. Antiseptic or prophylactic ointment for use as a general antiseptic. No. 138,047; Sept. 5.
Gottschalk, Steinberg & Co. Inc., New York, N. Y. Hair nets, nettings, veilings, and veils. No. 160,286; Sept. 5.
Great Western Smelting & Refining Company, Chicago, Ill. Solder. No. 155,493; Sept. 5.
Guild Products Corporation, Philadelphia, Pa. Mucilage, paste, glue, and sealing wax. No. 165,547; Sept. 5.
H. & M. Mfg. Company, Tulsa, Okla. Sanitary belts. No. 156,630; Sept. 5.
Hagan, Charles F., doing business as Wyrick Spring Company, Crockett, Va. Mineral and carbonated water. No. 167,400; Sept. 5.
Happiwork, Branchville, Conn. Illustrated boxes for children for educational and amusement purposes. No. 166,233; Sept. 5.
Hartman-Spring Co., The, Mansfield, Ohio. Gas heaters and stoves. No. 163,521; Sept. 5.
Hartmann Trunk Company, Racine, Wis. Trunks. No. 159,584; Sept. 5.
Hennenhofer, William G., doing business as Savage Grip Sales Company, Denver, Colo. Patches for fabric tires and inner tubes. No. 117,379; Sept. 5.
Henning Wennersten Incorporated, Chicago, Ill. Malt extracts. No. 164,734; Sept. 5.
Highland Manufacturing Company, Holyoke, Mass. Writing, typewriting, and printing papers, papeteries, cards, tablets, and pads. Nos. 125,501–2; Sept. 5.
Hoddersen-Bailling, Frederick E., Brooklyn, N. Y. Ham cookers. No. 162,110; Sept. 5.
Holmac, Inc., New York, N. Y. Golf gloves made of chamois leather. No. 160,350; Sept. 5.
Hope Company, Providence, R. I. Cotton goods in the piece. No. 149,230; Sept. 5.
Hough Shade Corporation, Janesville, Wis. Supporting, guiding, and other fixtures and appliances for window shades. No. 159,702; Sept. 5.
Jackson, Edwin A., & Bro., Incorporated, New York, N. Y. Coal, coke, wood, gas, and oil burning grates and stoves. No. 159,232; Sept. 5.
Jennings Manufacturing Company, The, Dayton, Ohio. Carving knives and forks, pastry and butcher knives, parers, and cleavers. No. 159,154; Sept. 5.
Jewell Belting Company, West Hartford, Conn. Belts made of leather for driving machinery. No. 156,450; Sept. 5.
Johnson, Alfred, Skate Company, Chicago, Ill. Ice skates. No. 167,355; Sept. 5.
Johnson, William H., New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Writing and wrapping paper, pencils, pens, blank books, bill files, etc. No. 162,931; Sept. 5.
Kern, Charles J., Buffalo, N. Y., assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y. Toys—namely, doll wagons, teter toys, etc. No. 139,892; Sept. 5.
Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 163,810; Sept. 5.
Lightner, Eugene O., Washington, D. C. Direction signals. No. 162,021; Sept. 5.
Los Angeles Ice & Cold Storage Co., Los Angeles, Calif. Beverage sold as soft drink and sirups used in making same. No. 167,405; Sept. 5.
McKenzie, Willard J., doing business as Pierce Remedy Company, St. Louis, Mo. Waterproof cement. No. 158,631; Sept. 5.
Macke, F. W., & Co., Kokomo, Ind. Pipe, monkey, automobile, and bicycle wrenches. No. 161,368; Sept. 5.
Manufacturers. (See Cockatoo Preserves Limited.)
Mem-O-ette Co. (See Ferdon, William S.)
Migel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 165,691; Sept. 5.
Millar, Geo. W., & Co., Inc., New York, N. Y. Correspondence papers and envelopes packed in boxes and known as papeteries. No. 165,877; Sept. 5.
Mineral Rock Springs, Inc., Kansas City, Mo. Mineral-spring water. No. 167,528; Sept. 5.
Monroe Drug Co., Quincy, Ill. Dyes. No. 163,407; Sept. 5.
Mountvale Company, Incorporated, The, Saranac Lake, N. Y. Beverages sold as soft drinks and sirups for making same. No. 167,185; Sept. 5.
Murphy, J. J., Paper Co., Inc., New York, N. Y. Bond paper. No. 163,529; Sept. 5.
Namm, A. I., & Son, Inc., Brooklyn, N. Y. Children's shoes. No. 162,433; Sept. 5.
National Paper Can Company, Milwaukee, Wis. Paper containers for tobacco and cigars. No. 148,161; Sept. 5.
Nevada State Journal Publishing Co., Reno, Nev. Daily (including Sunday) newspapers. No. 164,938; Sept. 5.
New Era Toy Manufacturing Company. (See Kern, Charles J., assignor.)
O. K. Extract Supply Company. (See Dieman, A. P.)
Oertel Co., The, Louisville, Ky. Beverage sold as a soft drink, commonly known as near beer. No. 165,407; Sept. 5.
Oldfield Tire Company, The, Akron, Ohio. Resilient vehicle tires and inner tubes. No. 163,645; Sept. 5.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Paristyle Novelty Co. Inc., New York, N. Y. Hair nets. No. 158,436; Sept. 5.
Pennsylvania Hosiery Mills, Philadelphia, Pa. Hosiery. No. 160,363; Sept. 5.
Pierce Remedy Company. (See McKenzie, Willard J.)
Pittsburgh Lamp Brass & Glass Company, Pittsburgh, Pa. Oil stand and oil hanging lamps, portable gas lamps, oil stoves. No. 122,185; Sept. 5.
R. I. V. Co. Inc., New York, N. Y. Ball bearings. No. 161,383; Sept. 5.
Red "C" Oil Mfg. Co., The, Baltimore, Md. Illuminating oils and gasoline. No. 138,957; Sept. 5.
Rex Manufacturing Co. (See Davis, J. R.)
Rifkin, A., & Company, Wilkes-Barre, Pa. Union suits of textile material. No. 160,260; Sept. 5.
Robinson, Thomas J., Chicago, Ill. Auxiliary hot-water heaters and parts of same. No. 146,663; Sept. 5.
Rose & Frank Co., New York, N. Y. Tissue paper mainly used for carbonizing purposes. No. 162,580; Sept. 5.
Rugby Knitting Mills, Buffalo, N. Y. Knitted coats and sweaters. No. 160,083; Sept. 5.
Russell, R., and Sons Limited, Derby, England. Open sitting-room coal-burning stoves. No. 164,197; Sept. 5.
Sainberg & Co. Inc., New York, N. Y. Paper-supporting pads for writing purposes. No. 160,641; Sept. 5.
Sanitary Cup & Specialty Co. (See Wyle, Jerome.)
Savage Grip Sales Company. (See Hennenhofer, William G.)
Seymour Manufacturing Company, The, Seymour, Conn. Metal alloys, wire in coils, blanks, ingots, and rods. Nos. 163,550–2; Sept. 5.
Southern Hardware & Supply Co., St. Louis, Mo. Lubricating oils. No. 148,458; Sept. 5.
Statesman Printing Company, The, Boise, Idaho. Newspapers. No. 165,244; Sept. 5.
Sterling, G. W., and Co., Inc., New York, N. Y. Handkerchiefs. No. 155,937; Sept. 5.
Stil Daniels, Detroit, Mich. Hair dressings and tonics. No. 163,192; Sept. 5.
Stimpson, Edwin B., Company, Brooklyn, N. Y. Rivets. No. 147,813; Sept. 5.
Stringer Bros. Co., Chicago, Ill. Oil-regulated flush valves, cast-iron bends, drum caps, and soil and drainage fittings. No. 162,065; Sept. 5.
Stronghart Company, Chicago, Ill. Small portable savings banks and safes. No. 129,480; Sept. 5.
Strutz & Clottu Co., Chicago, Ill. Razors. No. 160,440; Sept. 5.
Success Heater and Manufacturing Company, Des Moines, Iowa. Warm-air heaters and furnaces. No. 150,037; Sept. 5.
Sunny Maid Dress Company, New York, N. Y. Dresses for girls, flappers, juniors, and misses. No. 160,033; Sept. 5.
Target Penetrating Oil Co. (See Wasson, Harry G.)
Tennessee Fibre Co., Memphis, Tenn. Blotter blocks or pads. No. 131,875; Sept. 5.
Theodosis, Amando R., Miami, Ariz. Medicinal preparations for the treatment of catarrhal troubles. No. 159,435; Sept. 5.
Tidewater Paper Mills Company, New York, N. Y. Newsprint paper. No. 165,249; Sept. 5.
Tin Decorating Company of Baltimore, The. (See Johnson, William H., assignor.)
Tribble Cordage Mills, Inc., Boston, Mass. Mops. No. 158,267; Sept. 5.
Trickey, Fred L., Berlin, Wis. Cements. Nos. 164,132–6; Sept. 5.
Ulbs, Mike, Elgin, Nebr. Medicine for use in the treatment of rheumatism, kidney, liver, and stomach troubles, etc. No. 163,481; Sept. 5.
Union Petroleum Company, Philadelphia, Pa. Petroleum jelly for medicinal and surgical purposes. No. 159,438; Sept. 5.
United States Chain & Forging Co., Pittsburgh, Pa. Chains of base metal, cross and tire chains. No. 163,656; Sept. 5.
Urich, Benjamin, Milwaukee, Wis. Keys. No. 138,524; Sept. 5.
VJ-Tabs Co. (See Donnelly, Julia.)
Wasson, Harry G., doing business as Target Penetrating Oil Co., Peoria, Ill. Rust solvent. No. 155,945; Sept. 5.
Waterman, August H., Rockford, Ill. Polish for automobiles, etc., and cleaner and polish for woodwork, etc. No. 150,838; Sept. 5.
White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper. Nos. 165,739–41; Sept. 5.
Whiting-Plover Paper Co., Stevens Point, Wis. Bond papers. No. 160,038; Sept. 5.
Wilder & Company, Chicago, Ill. Sole leather. No. 126,085; Sept. 5.
Wile, Herman, & Co., Buffalo, N. Y. Men's and young men's clothing. No. 160,103; Sept. 5.
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. No. 151,737; Sept. 5.
Woelz Bros., Appleton, Wis. Writing and ledger papers. No. 163,485; Sept. 5.
Wyle, Jerome, doing business as Sanitary Cup & Specialty Co., Albany, N. Y. Toilet paper and paper towels. No. 163,300; Sept. 5.
Wyrick Spring Company. (See Hagan, Charles F.)
Zimmerman Stove Heater Corp., New York, N. Y. Hot-water heating kitchen ranges. No. 163,956; Sept. 5.
Zinsser, William, & Company, Incorporated, New York, N. Y. Glues, paste, and sealing wax. No. 164,849; Sept. 5.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 5TH DAY OF SEPTEMBER, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrasive article. H. R. Power. No. 1,427,844; Sept. 5.
Accelerators, Detachable pedal for. J. P. Gammon. No. 1,428,082; Sept. 5.
Acid. Cleaning sulphonic. A. Wolff. No. 1,428,197; Sept. 5.
Advertising device. C. Fleck. No. 1,428,022; Sept. 5.
Adz. F. A. Holmes. No. 1,428,287; Sept. 5.
Aeroplane element and process of making same and product of said process. G. Blenio. No. 1,427,941; Sept. 5.
Aeroplanes, Fuselage construction for. J. L. Cato. No. 1,428,143; Sept. 5.
Aeroplanes, Launching and landing of. J. B. Harriss. No. 1,428,163; Sept. 5.
Aeroplanes, Parachute for. T. Diakoniuk. No. 1,428,013; Sept. 5.
Aeroplanes, Safety device for. J. W. Birosh. No. 1,428,135; Sept. 5.
Agricultural implement for cultivating, mowing, and grinding, Self-propelled. K. von Meyenburg. No. 1,428,194; Sept. 5.
Air compressor. J. Kerr. No. 1,427,823; Sept. 5.
Air-cooled transformer. J. Burke. No. 1,427,783; Sept. 5.
Air-check device. F. E. Cheesman. No. 1,428,145; Sept. 5.
Airplane fuselage. M. W. Mix. No. 1,428,341; Sept. 5.
Airplane - radiator mounting. A. V. Verville. No. 1,427,872; Sept. 5.
Airship. T. Barrett. No. 1,427,908; Sept. 5.
Air station, Motor-driven automatic pressure coin-controlled. A. A. Ewald. No. 1,428,365; Sept. 5.
Alarm. F. C. Stinzing. No. 1,428,124; Sept. 5.
Alarm whistle means for closure devices. F. C. Stinzing. No. 1,428,189; Sept. 5.
Alloys, Production of low-carbon ferro. N. Petinot. No. 1,428,057; Sept. 5.
Alloys, Separation and recovery of metals from metal. G. J. Kroll. No. 1,428,041; Sept. 5.
Amplifier, Low-frequency. L. Espenschied. No. 1,428,156; Sept. 5.
Amusement device. A. L. Black. No. 1,427,775; Sept. 5.
Anchoring or securing device. C. G. Girolami. No. 1,428,327; Sept. 5.
Angle block. W. H. Weingar. No. 1,428,509; Sept. 5.
Angle iron, Machine for bending. C. P. Buck. No. 1,428,001; Sept. 5.
Ankle supporter. H. B. Hamilton. (Reissue.) No. 15,446; Sept. 5.
Antirattler. H. W. Benner. No. 1,427,774; Sept. 5.
Ash tray. H. Neghaur. No. 1,427,838; Sept. 5.
Attaching device. A. W. Harrison. No. 1,427,953; Sept. 5.
Auto dump body. H. G. Frazier. No. 1,428,368; Sept. 5.
Automobile bumper. W. E. Williams. No. 1,427,928; Sept. 5.
Automobile body construction. J. L. Bancroft. No. 1,427,894; Sept. 5.
Automobile body heater. H. C. Rogers. No. 1,428,299; Sept. 5.
Automobile body structure. J. Ledwinka. No. 1,428,105; Sept. 5.
Automobile fender. C. Weinberg. No. 1,427,878; Sept. 5.
Automobile, Gasoline indicator for. G. J. Guth. No. 1,427,803; Sept. 5.
Automobile hoist. T. A. Martin. No. 1,428,383; Sept. 5.
Automobile lock. W. T. Hall. No. 1,428,089; Sept. 5.
Automobile lock. J. L. Jones. No. 1,428,236; Sept. 5.
Automobile lock. W. A. Rideout. No. 1,427,912; Sept. 5.
Automobile or other vehicles, Fender attachment for. W. H. Rapeport. No. 1,428,116; Sept. 5.
Automobile-radiator condenser. F. J. Gustine. No. 1,428,433; Sept. 5.
Automobiles, Demountable wheel for. W. E. Williams. No. 1,427,926; Sept. 5.
Automobile signal. C. E. Blinn and G. W. Christie. No. 1,428,136; Sept. 5.
Automobile signal. W. H. Kroll. No. 1,428,104; Sept. 5.
Automobile signal. J. M. Scheller. No. 1,428,260; Sept. 5.
Automobiles, Spotlight for. C. A. Maddux. No. 1,428,108; Sept. 5.
Automobile step. J. W. Conway. No. 1,428,006; Sept. 5.
Automobile theft-preventing device. L. F. Wesche. No. 1,428,307; Sept. 5.
Automobile theft signals, Brake-lever circuit closer for. D. S. Lee. No. 1,428,380; Sept. 5.
Auto skid-chain hook. A. H. Rankin. No. 1,427,848; Sept. 5.
Auto step. W. H. Heaton. No. 1,428,030; Sept. 5.
Bag bottom. H. E. Ingram. No. 1,428,330; Sept. 5.
Bag-printing mechanism. F. Lombardo. No. 1,427,905; Sept. 5.
Bags, End support for traveling. W. James. No. 1,428,098; Sept. 5.
Baking utensil. I. Every. No. 1,427,796; Sept. 5.
Bandit trap. M. and Y. W. Chambers. No. 1,428,002; Sept. 5.
Barrel, Sheet-metal. J. W. McNeil. No. 1,428,337; Sept. 5.
Barrels, Attachment for filling. A. Matuschak and A. Langsch. No. 1,427,965; Sept. 5.
Barometric condenser. W. S. Elliott. No. 1,427,792; Sept. 5.
Basket, Waste. M. Weinman. No. 1,427,879; Sept. 5.
Battery: *See*—
  Secondary battery.
Bearing mounting, Antifriction-. W. L. Hutchinson. No. 1,427,818; Sept. 5.
Bearing or axle, Self-lubricating. C. M. Feist. No. 1,428,425; Sept. 5.
Bed. L. W. Ward. No. 1,428,462; Sept. 5.
Bell or signaling device, Call. S. Katz. No. 1,428,237; Sept. 5.
Belt, Power-transmission. A. O. Rutz. No. 1,427,856; Sept. 5.
Belt, Proofer. F. H. Van Houten. No. 1,427,869; Sept. 5.
Beryllium, Electrically manufacturing compact metallic. A. Stock and H. Goldschmidt. No. 1,427,919; Sept. 5.
Beverages containing chocolate, cocoa, etc., Dispensing means for. H. C. Lyons. No. 1,428,043; Sept. 5.
Billiard cues, Tip-securing means for. J. Vetter. No. 1,427,873; Sept. 5.
Bit: *See*—
  Drill bit.
  Well-drilling bit.
Block: *See*—
  Building block.
  Snatch block.
Board: *See*—
  Game board.
  Plastic board.
  Ironing board.
Boats, Hydroplane-operating mechanism for submarine. J. F. W. Kolvig. No. 1,428,335; Sept. 5.
Boatswain's seat. P. Giannone. No. 1,428,369; Sept. 5.
Boiler and strainer, Combination. M. Miller. No. 1,428,388; Sept. 5.
Boiler furnace. B. F. Wood. No. 1,428,128; Sept. 5.
Boilers or stills, Liquid-level-controlling device for. V. L. Emerson. No. 1,427,793; Sept. 5.
Bolt: *See*—
  Self-lubricating bolt.
Book for income-tax returns. L. J., G. P., and H. M. Gregerson. No. 1,427,951; Sept. 5.
Boring machine. J. B. Hadaway and I. C. Buckminster. No. 1,427,805; Sept. 5.
Bottle cap, Nonfillable-. P. Fuzy. No. 1,428,479; Sept. 5.
Bottle closure. F. H. Mills. No. 1,428,295; Sept. 5.
Bottle mouths and a composition of matter usable therefor, Capsuling of corked. S. J. Ingram. No. 1,428,096; Sept. 5.
Bottle-retaining box. M. Zimmerman. No. 1,428,350; Sept. 5.
Bottles and the like, Pouring device for. S. C. Price. No. 1,428,297; Sept. 5.
Box: *See*—
  Bottle-retaining box.
  Metal box.
Boxes, Device for tensioning the iron bands of. F. C. Reinboth. No. 1,428,060; Sept. 5.
Boxes or packages from one elevator to another, Apparatus for handling and delivering. W. G. Price. No. 1,428,184; Sept. 5.
Boxes, Tray support for. W. L. Buedingen. No. 1,428,500; Sept. 5.
Brace. S. Lankheet. No. 1,428,484; Sept. 5.
Brace and bit therefor. J. V. Janin. No. 1,428,099; Sept. 5.
Bracket: *See*—
  Lumber-roller bracket.
Braiding machine. P. Rasche. No. 1,428,059; Sept. 5.
Brake. J. M. Grimm. No. 1,427,801; Sept. 5.
Brake and rear pilot, Combined. B. C. Zubara and H. D. Clarke. No. 1,427,993; Sept. 5.
Brake attachment, Stop-motion. F. Crawford, sr. No. 1,428,416; Sept. 5.

Brake beams, Combined release and support for. G. N. Van Sweringen. No. 1,428,192; Sept. 5.
Brake rigging, Third or fourth point support bracket for. E. G. Busse and A. W. Hawkins. No. 1,428,214; Sept. 5.
Branding iron. C. F. Frazier. No. 1,428,280; Sept. 5.
Bricks, Making. W. A. McCool. No. 1,427,831; Sept. 5.
Brush clamp. W. B. Eagan. No. 1,428,281; Sept. 5.
Brush mounting. J. D. Nies. No. 1,428,342; Sept. 5.
Buckle. C. E. Bradshaw. No. 1,428,211; Sept. 5.
Building block, Reenforced composite. U. E. Tuomi. No. 1,428,127; Sept. 5.
Burner: *See*—
Gas burner. Stove burner.
Oil burner. Wick burner.
Burner. J. W. B. Balfour. No. 1,428,129; Sept. 5.
Burner drum. J. S. Brennan. No. 1,428,212; Sept. 5.
Butter tester. E. H. Farrington. No. 1,428,020; Sept. 5.
Buttonholes, Machine for beveling edges of. W. J. Brennan. No. 1,427,780; Sept. 5.
Calendar. H. T. Reed. No. 1,427,850; Sept. 5.
Calendar, Record. G. H. Deaton. No. 1,427,786; Sept. 5.
Caliper. B. N. Dudukian. No. 1,428,422; Sept. 5.
Camera. V. A. Gianett. No. 1,428,431; Sept. 5.
Camera. V. G. Pautler. No. 1,428,395; Sept. 5.
Camera, Film. J. A. Hazelquist. No. 1,427,954; Sept. 5.
Cameras, Film magazine for motion-picture. R. J. Giroux. No. 1,428,480; Sept. 5.
Cameras or the like, Construction for motion-picture. L. Brown. No. 1,428,321; Sept. 5.
Can: *See*—
Freezing can.
Can-body-forming machine. J. Brenzinger. No. 1,427,896; Sept. 5.
Can holder. B. K. Gerojohn. No. 1,428,430; Sept. 5.
Can-washing machines, Attachment for milk-. C. A. Musgrave. No. 1,428,491; Sept. 5.
Cap visor and lamp support. B. J. Schwarz, N. Forister, and A. Hirt. No. 1,428,453; Sept. 5.
Car. R. R. Weaver. No. 1,428,196; Sept. 5.
Car construction, Freight-. C. Peck. No. 1,428,448; Sept. 5.
Car door. F. Jager. No. 1,427,901; Sept. 5.
Car door. A. Sellgren. No. 1,427,915; Sept. 5.
Car-dumping apparatus. W. R. Coleman. No. 1,428,005; Sept. 5.
Car, Self-discharging. K. Barth. No. 1,428,131; Sept. 5.
Cars and the like, Device for preventing the theft of motor. W. Romeiser and L. Schiff. No. 1,428,450; Sept. 5.
Cars, Rail for timber. J. C. Cook and H. E. Austin. No. 1,428,474; Sept. 5.
Cars, Machine for automatically loading bricks on pallets into rack-drier. C. H. Klein. No. 1,427,825; Sept. 5.
Cars, Track brake for mine. J. F. Yeckel. No. 1,428,069; Sept. 5.
Carburetor. F. D. Ackley. No. 1,428,200; Sept. 5.
Carline. J. E. Tesseyman and T. N. Russell. No. 1,428,403; Sept. 5.
Carline construction. J. W. Bernbaum. No. 1,428,354; Sept. 5.
Carriage, Baby. S. J. Bens. No. 1,428,000; Sept. 5.
Carrier: *See*—
Rope carrier.
Carton. J. O. Larsen. No. 1,427,828; Sept. 5.
Case: *See*—
Eyeglass case. Watchcase.
Casting machine, Centrifugal. W. S. Myers. No. 1,428,048; Sept. 5.
Celluloid vessels, Manufacture of. A. Pouchain. No. 1,427,972; Sept. 5.
Cement roofing tile, Machine for making. J. W. Alexander. No. 1,428,351; Sept. 5.
Chain connection. A. P. Griffin. (Reissue.) No. 15,445; Sept. 5.
Chair: *See*—
High chair. Rail-joint chair.
Chuck. R. K. Davis. No. 1,427,785; Sept. 5.
Chuck, Internal. J. O. Kahl. No. 1,428,100; Sept. 5.
Churn. M. L. Kelly. No. 1,428,438; Sept. 5.
Cigarette package. E. L. Soho. No. 1,427,977; Sept. 5.
Cigars and other articles, Shipping receptacle for. R. H. Eddy. No. 1,428,016; Sept. 5.
Cinematographs, Lighting system for. A. Köhler. No. 1,428,103; Sept. 5.
Circuit controller, Combination. H. V. Bell. No. 1,428,413; Sept. 5.
Clamp: *See*—
Brush clamp.
Clip: *See*—
Fastening clip. Rose clip.
Clothesline bracket and tray. D. E. Davison. No. 1,428,418; Sept. 5.
Clutch and transmission. J. de Martino. No. 1,428,221; Sept. 5.
Coal or other carbonaceous material, Gasification of. A. M. Duckham. No. 1,428,421; Sept. 5.
Coating composition and producing the same. W. A. Collings. No. 1,428,272; Sept. 5.
Cocks or valves, Device for actuating pet. L. F. Jackson. No. 1,427,819; Sept. 5.
Coffee extract, Making. L. A. Romero. No. 1,428,256; Sept. 5.
Coffee-making device. H. Mock. No. 1,428,046; Sept. 5.
Compo-board machine. W. P. Porter. No. 1,427,971; Sept. 5.
Composite structure. C. D. Brooks. No. 1,428,320; Sept. 5.
Concentrator. W. P. Ogden. No. 1,428,392; Sept. 5.
Concrete mixer. J. W. Heltzel. No. 1,427,955; Sept. 5.
Concrete pavement, Machine for making. J. W. Heltzel. No. 1,427,956; Sept. 5.
Concrete-pipe machine. G. C. Martin. No. 1,428,044; Sept. 5.
Concrete structure, Making reenforced. J. T. Simpson. No. 1,428,401; Sept. 5.
Conduit fitting, Corrosion-resistant. E. L. Huff. No. 1,428,374; Sept. 5.
Conduit-forming jack. J. E. Marquiss. No. 1,427,964; Sept. 5.
Connecting rod. C. B. Drevitson. No. 1,427,788; Sept. 5.
Container vent. A. Schilling. No. 1,428,399; Sept. 5.
Control mechanism. Graf A. von Soden-Fraunhofen. No. 1,428,460; Sept. 5.
Control mechanism, Automatic. G. W. Woodward. No. 1,428,109; Sept. 5.
Controlling device. C. A. Humphreys. No. 1,428,375; Sept. 5.
Conveyer. F. J. Huebsch. No. 1,428,234; Sept. 5.
Conveyer, Sectional. L. G. Zesbaugh. No. 1,427,890; Sept. 5.
Conveying apparatus. F. E. Schwalb. No. 1,427,860; Sept. 5.
Conveying structure. T. S. Watson. No. 1,427,989; Sept. 5.
Conveying structures, Running gear for. T. S. Watson. No. 1,427,990; Sept. 5.
Copper, Coloring metallic. F. Laist, F. F. Frick, E. Klepetko, and L. P. Davidson. No. 1,428,170; Sept. 5.
Coupling. H. Trust and F. M. Ashley. No. 1,427,924; Sept. 5.
Coupling or connection, Antichattering. M. Moskowitz. No. 1,428,249; Sept. 5.
Costume, garment, or like wearing apparel for bathing, swimming, or life saving. J. S. Drew. No. 1,428,151; Sept. 5.
Cotton machinery. J. L. Hart. No. 1,428,434; Sept. 5.
Cotton-stalk cutter and insect killer. T. H. Batla and H. J. Holan. No. 1,427,931; Sept. 5.
Coupling: *See*—
Quick-detachable coupling. Railway coupling.
Crab. A. Hoffmann and B. Bomborn. No. 1,428,091; Sept. 5.
Crank, Adjustable. J. M. Feeney. No. 1,427,798; Sept. 5.
Crank arm. C. H. Fish. No. 1,428,366; Sept. 5.
Crate, Knockdown. C. W. Young. No. 1,428,070; Sept. 5.
Crate or box, Collapsible. D. Adams. No. 1,427,766; Sept. 5.
Cream and egg whipper. J. H. Viner. No. 1,427,986; Sept. 5.
Cream separator. C. M. Dye. No. 1,428,364; Sept. 5.
Crusher and pulverizer. H. M. Plaisted. No. 1,427,842; Sept. 5.
Cuff link. J. Kowall. No. 1,427,959; Sept. 5.
Curtain-depressing mechanism, Focal-plane-shutter-. E. F. Kingsbury. No. 1,427,824; Sept. 5.
Cushion wheel. G. L. Allen. No. 1,427,995; Sept. 5.
Cuspidor. W. F. Hartline. No. 1,427,809; Sept. 5.
Cutter: *See*—
Grass cutter. Pipe cutter.
Milling cutter.
Cutting tools, Variable support for. C. Uebelmesser. No. 1,427,925; Sept. 5.
Damper. G. H. Turner. No. 1,427,868; Sept. 5.
Dampers, Alarm control for. H. Rietveld. No. 1,428,255; Sept 5.
Deflection indicator. W. J. Barrett. No. 1,427,773; Sept. 5.
Dehydrator. W. Meredith. No. 1,428,178; Sept. 5.
Derrick. J. L. Barnes. No. 1,428,314; Sept. 5.
Die structure. J. A. Luther. No. 1,428,174; Sept. 5.
Dies, Mechanism for lapping diamond. H. Blount. No. 1,428,209; Sept. 5.
Digger: *See*—
Posthole digger.
Digging implement. J. Szabo. No. 1,427,865; Sept. 5.
Disk wheel, Metal. W. E. Williams. No. 1,427,927; Sept. 5.
Dispensing machine. J. E. Kenkel. No. 1,428,439; Sept. 5.
Display container, Merchandise. W. O. Niceley. No. 1,427,839; Sept. 5.
Display device. A. J. Ganz. No. 1,428,226; Sept. 5.
Display device. E. M. Pitts. No. 1,428,058; Sept. 5.
Distilling. E. J. Winter. No. 1,427,885; Sept. 5.
Distilling. E. J. Winter. No. 1,427,888; Sept. 5.
Distilling apparatus. E. J. Winter. Nos. 1,427,886–7; Sept. 5.
Ditching machine. M. Paul. No. 1,428,055; Sept. 5.
Door construction, Parallel-sliding-. P. Frants. No. 1,428,023; Sept. 5.
Doubling apparatus. S. B. Haarbye and H. G. McIlvried. No. 1,427,804; Sept. 5.
Drag link. H. B. Garman. No. 1,428,024; Sept. 5.
Drag or grading machine, Road. J. W. Brannan. No. 1,428,319; Sept. 5.
Drawing mechanism. A. C. Butler. No. 1,428,271; Sept. 5.
Drill bit, Multiple-cutter. J. J. and J. R. Bookhout. No. 1,428,137; Sept. 5.
Drill bit. J. J. Brossoit. No. 1,428,415; Sept. 5.
Drilling device, Rail-. F. A. Tegeler. No. 1,427,982; Sept. 5.
Drilling machines, Drill head for. J. F. Buhr. No. 1,428,002; Sept. 5.

Drill-twisting method and machine. J. F. Meyers. No. 1,428,387; Sept. 5.
Dust-cloth container. A. Holm. No. 1,428,286; Sept. 5.
Easel, Collapsible. P. H. Welcker. No. 1,427,880; Sept. 5.
Educational apparatus. W. Stranders. No. 1,428,456; Sept. 5.
Educational device. J. W. Benton. No. 1,428,206; Sept. 5.
Effervescent mixture. W. E. Stokes. No. 1,427,979; Sept. 5.
Electric furnace. E. H. Horstkotte. No. 1,427,814; Sept. 5.
Electric heater. P. J. H. Bernard. No. 1,428,071; Sept. 5.
Electric house installations, Distributing board for. M. Breitner. No. 1,427,779; Sept. 5.
Electric engine. H. Macé. No. 1,428,489; Sept. 5.
Electric meters, Adjusting. O. T. Blathy. No. 1,427,776; Sept. 5.
Electric switch. J. M. Ronalter. No. 1,428,186; Sept. 5.
Electrical cut-out operated by fluid pressure. W. H. Welch. No. 1,428,463; Sept. 5.
Electrolysis, Means for suspending plates during treatment by. R. M. Weeks. No. 1,427,875; Sept. 5.
Electrolytic apparatus and method of depolarizing the same. W. D. Nickum. Nos. 1,428,049–50; Sept. 5.
Electromotor with connecting gear. H. Schröder. No. 1,428,302; Sept. 5.
Elevator. S. Lankheet. No. 1,428,485; Sept. 5.
Engine: *See*—
Electric engine. Steam engine.
Internal-combustion engine.
Engines, Lubrication system of internal-combustion. F. W. Mead. No. 1,428,177; Sept. 5.
Engines, Oiling system for gasoline. R. Anderson. No. 1,427,768; Sept. 5.
Engine starter. F. E. Fisher. (Reissue.) No. 15,444; Sept. 5.
Envelope blanks, Machine for making window-. S. Furman. No. 1,428,429; Sept. 5.
Envelope-fastener-applying device. A. Telli. No. 1,428,498; Sept. 5.
Etching, Apparatus for electrical. R. M. Weeks. No. 1,427,876; Sept. 5.
Etching, Process and apparatus for electrical. R. M. Weeks. No. 1,427,877; Sept. 5.
Eyeglass case. E. H. Flitton. No. 1,427,947; Sept. 5.
Eyeglass mounting. L. Arntz. No. 1,427,996; Sept. 5.
Explosive compositions and product thereof, Increasing the sensitiveness and power of. W. M. Dehn. No. 1,428,011; Sept. 5.
Fastener. W. J. Burbery. No. 1,428,358; Sept. 5.
Fastener and making same. W. Kahn. No. 1,428,101; Sept. 5.
Fastening clip. O. N. Tevander. No. 1,427,866; Sept. 5.
Fastening device. R. D. Pulver. No. 1,427,846; Sept. 5.
Feeding mechanism. S. Cooper. No. 1,428,324; Sept. 5.
Fence stretcher. C. Hague. No. 1,427,952; Sept. 5.
Fender: *See*—
Automobile fender.
Files and the like, Binding plate for office letter. F. Le Roy-Tracy. No. 1,428,172; Sept. 5.
Filing desk, Card-. C. G. Hobart. No. 1,427,957; Sept. 5.
Film-numbering machine. J. Altschuler. No. 1,428,352; Sept. 5.
Films, Interlocking device for avoiding double exposures and blank. A. H. Rolkier. No. 1,427,973; Sept. 5.
Firearms, Sight for. A. Perrin. No. 1,428,115; Sept. 5.
Fire-engine pumps, Dead water control for. A. B. House. No. 1,427,890; Sept. 5.
Fire-extinguishing composition. A. Biddle. No. 1,428,207; Sept. 5.
Fire-resisting structure. C. F. Mellink. No. 1,428,340; Sept. 5.
Flashing receptacle and brace. G. E. Swenson. No. 1,427,921; Sept. 5.
Fluid compressor. C. W. Metzgar. No. 1,427,835; Sept. 5.
Flycatcher. M. Maxian. No. 1,428,384; Sept. 5.
Flying machine. T. Van Voorst. No. 1,428,066; Sept. 5.
Frame: *See*—
Picture frame. Weaving frame.
Frame stretcher. A. E. Maynard. No. 1,428,444; Sept. 5.
Freezing can. A. J. Bentley. Nos. 1,427,936–8; Sept. 5.
Fulcrum and making the same. C. E. Bauer. No. 1,427,932; Sept. 5.
Furnace: *See*—
Boiler furnace. Hot-air furnace.
Electric furnace.
Furnace. D. J. McNerney. No. 1,428,488; Sept. 5.
Furniture fixture. L. Keachler. No. 1,427,958; Sept. 5.
Furniture, Metallic. M. O. Shriner. No. 1,427,861; Sept. 5.
Fuse. D. F. Asbury. No. 1,428,203; Sept. 5.
Fuse plug. R. B. Benjamin. No. 1,427,895; Sept. 5.
Game. G. S. Parker. No. 1,428,054; Sept. 5.
Game apparatus. J. Hampson. No. 1,428,482; Sept. 5.
Game board. A. J. Barber. No. 1,428,411; Sept. 5.
Garment supporter. E. V. Norris. No. 1,428,250; Sept. 5.
Gas burner. H. D. Schroeder. No. 1,428,400; Sept. 5.
Gas-supply systems, Safety cut-off device for use on. G. Keith and J. E. Pointon. No. 1,427,821; Sept. 5
Gate: *See*—
Mill-spout gate.
Gates, Adjusting device for flexible. W. K. Voorhees. No. 1,428,067; Sept. 5.
Gauge: *See*—
Water-level gauge.
Gear casing. D. R. Scholes. No. 1,427,914; Sept. 5.
Gearing, Change-speed. J. G. Fay. No. 1,428,326; Sept. 5.
Gear-making machine. J. F. Crawford. No. 1,428,219; Sept. 5.
Gear wheel. E. L. Aiken. No. 1,427,892; Sept. 5.
Glass containers, Apparatus for testing. O. C. K. Hutchinson. No. 1,427,817; Sept. 5.
Glass, Field. E. K. Dunne. No. 1,428,478; Sept. 5.
Glove-knitting mechanism. G. P. Bosworth. No. 1,428,318; Sept. 5.
Golf club. J. A. Dienner. No. 1,428,015; Sept. 5.
Grain-cleaning machine. F. W. Humphries and L. E. Mackenzie. No. 1,428,093; Sept. 5.
Grape juice. G. L. Johnston. No. 1,427,902; Sept. 5.
Grape-juice product. G. L. Johnston. No. 1,427,903; Sept. 5.
Grass cutter. O. J. Heimann. No. 1,428,284; Sept. 5.
Grating. W. H. Hess. No. 1,428,230; Sept. 5.
Grease retainer and dust cap. L. A. T. Soldane and V. V. Van Nattan. No. 1,428,267; Sept. 5.
Grinding attachment. H. G. Kennedy. No. 1,428,289; Sept. 5.
Grinding device. C. Shlagel. No. 1,428,497; Sept. 5.
Grinding machine, Automatic. L. A. Sorby. No. 1,428,269; Sept. 5.
Gun sight, Adjustable. W. M. Miller. No. 1,428,389; Sept. 5.
Gun silencer, flash cover, and recoil check. G. A. Goodwin. No. 1,427,802; Sept. 5.
Guns, Lock mechanism for machine. H. O. Russell and C. L. Paulus. No. 1,427,855; Sept. 5.
Handbox. T. Honma. No. 1,428,092; Sept. 5.
Handle. F. S. Herbert. No. 1,428,285; Sept. 5.
Harrow. D. M. Clevenger. No. 1,428,360; Sept. 5.
Hat-pad-securing means. F. J. Greene. No. 1,428,026; Sept. 5.
Headlight. C. B. Melanson. Nos. 1,428,109–10; Sept. 5.
Headlight, Dirigible. G. L. Horton. No. 1,428,436; Sept. 5.
Headlight, Dirigible auto. C. F. Andersen and J. R. Mitchell. No. 1,428,353; Sept. 5.
Headlight for automobiles, Dirigible, automatically operable. E. S. Jones. No. 1,428,235; Sept. 5.
Headlight, Nonglare. C. E. Post and P. G. Wagner. (Reissue.) No. 15,449; Sept. 5.
Heater: *See*—
Automobile body heater. Water heater.
Electric heater.
Heaters and lamps, Safety device for oil. W. K. Bassford. No. 1,428,132; Sept. 5.
Heating apparatus, Vaporizing device for. E. Delèmont. No. 1,428,150; Sept. 5.
Heating device. M. J. Whelan. No. 1,428,349; Sept. 5.
Heating plant for houses and buildings in general. G. Scapin. No. 1,428,187; Sept. 5.
Heel-building machine. E. E. Winkley. No. 1,427,884; Sept. 5.
Heel-gouging and lip-cutting machine. J. H. Pope. (Reissue.) No. 15,448; Sept. 5.
High chair, Combination convertible. T. and H. G. Ernst. No. 1,427,795; Sept. 5.
Hinge. C. M. French. No. 1,427,800; Sept. 5.
Hinge, Spring. C. E. Bailey. No. 1,427,929; Sept. 5.
Hoist, Hog. L. A. Kramer. No. 1,428,336; Sept. 5.
Hoist, Trolley, Dredging. J. Perna. No. 1,428,114; Sept. 5.
Hoisting apparatus. H. S. Gardner. No. 1,428,160; Sept. 5.
Hoists, Means for actuating ammunition. H. W. Lee and J. W. Swindale. No. 1,428,171; Sept. 5.
Hollow construction, members, Making. H. Junkers. No. 1,427,904; Sept. 5.
Hook: *See*—
Auto skid chain hook.
Horseshoe. M. Herger. No. 1,428,167; Sept. 5.
Hose supporter. J. Leonard. No. 1,427,960; Sept. 5.
Hot-air furnace. A. C. Mott, jr. No. 1,428,047; Sept. 5.
House: *See*—
Toy house.
Hydrocarbons from oil shale, Process and apparatus for recovery of. C. W. Thompson. No. 1,428,458; Sept. 5.
Ice-making apparatus. A. J. Bentley. No. 1,427,935; Sept. 5.
Identification holder. C. E. Ziegler. No. 1,427,891; Sept. 5.
Ignition apparatus, Electric. F. Billon. No. 1,428,134; Sept. 5.
Ignition magnetos, Automatic spark control and timing coupling for. H. O. Putt. No. 1,427,847; Sept. 5.
Implement, Hand. B. Himelfarb. No. 1,427,898; Sept. 5.
Index element. J. H. Rand. No. 1,428,298; Sept. 5.
Indicating instrument. W. D. Dreiske. No. 1,428,363; Sept. 5.
Indicator: *See*—
Deflection indicator. Liquid-level indicator.
Ink-distributing mechanism. E. T. Waters. No. 1,427,988; Sept. 5.
Insulation, Transparent. E. J. Pegler. No. 1,428,056; Sept. 5.
Internal-combustion engine. J. O. Almen. (Reissue.) No. 15,442; Sept. 5.
Internal-combustion engine. A. W. Beauchamp and E. C. Davidson. No. 1,428,412; Sept. 5.
Internal-combustion engine. G. Feriani. No. 1,428,426; Sept. 5.

Internal-combustion engine. W. Fisher. No. 1,428,376; Sept. 5.
Internal-combustion engine. L. L. Turney. No. 1,427,984; Sept. 5.
Internal-combustion motor. E. W. Christie. No. 1,428,322; Sept. 5.
Invoice sheet. W. A. Kelly. No. 1,428,102; Sept. 5.
Invoice sheet. J. A. B. Smith. No. 1,428,266; Sept. 5.
Iron: *See*—
Angle iron.
Branding iron.
Soldering iron.
Waffle iron.
Iron and steel, Manufacture of. T. Rouse. No. 1,428,061; Sept. 5.
Ironing board. W. C. Marks. No. 1,427,963; Sept. 5.
Ironing chest. D. O. Himebaugh. No. 1,428,433; Sept. 5.
Isatin-A-arylides with sulphur dioxid, Preparation of compound of. C. Stephan. No. 1,427,863; Sept. 5.
Jack: *See*—
Conduit-forming jack.
Jewelry, Article of. W. J. Fuermann. No. 1,428,158; Sept. 5.
Jig, Aligning. W. A. Forbess and C. R. Ames. No. 1,428,224; Sept. 5.
Jimmyproof lock. M. Forlander. No. 1,428,367; Sept. 5.
Joint: *See*—
Rail joint.
Key ring. R. Morris. No. 1,427,836; Sept. 5.
Kinetographs, Magazine and magazine attachment for. L. Brown. No. 1,428,138, Sept. 5.
Kneecap or elbow bandage. J. D. Willmott. No. 1,428,465; Sept. 5.
Knife. M. Neft. No. 1,428,296; Sept. 5.
Knitting machine. G. P. Bosworth. No. 1,428,317; Sept. 5.
Knitting machine, Glove-. F. E. Jones. No. 1,428,332; Sept. 5.
Knitting machines, Fancy-knitting attachment for. L. Tlucka. No. 1,427,983; Sept. 5.
Knitting machines, Striping mechanism for. F. W. Robinson. No. 1,428,398; Sept. 5.
Knitting machines, Yarn-moistening attachment for. B. J. Faucette. No. 1,428,021; Sept. 5.
Knives, Machine for grinding. A. Hughes. No. 1,427,900; Sept. 5.
Label for carriers, Removable. C. R. Dumble. No. 1,428,279; Sept. 5.
Lace fastener. J. F. Paradis. No. 1,428,493; Sept. 5.
Ladder. C. D. Harmon. No. 1,428,370; Sept. 5.
Lamp for projectors, Concentrated flaming-arc. P. R. Bassett. No. 1,428,510; Sept. 5.
Lamp lock, Electric-. H. E. Williams. No. 1,427,883; Sept. 5.
Lamp wrapper, Incandescent-. W. H. Fairchild. No. 1,428,019; Sept. 5.
Land-care mechanism. F. H. Kerr. No. 1,428,242; Sept. 5.
Lap, Expandible. R. S. Taylor. No. 1,428,126; Sept. 5.
Latch. J. A. Whittaker. No. 1,427,991; Sept. 5.
Lathes, Headstock for. P. Stoner. No. 1,428,190; Sept. 5.
Lathes, Taper boring mechanism for. A. H. Ingle. No. 1,428,095; Sept. 5.
Leather-straightening machine. J. B. Hadaway. No. 1,427,806; Sept. 5.
Ledger, Loose-leaf. C. M. Jewell. No. 1,428,377; Sept. 5.
Lens grinding machine. A. J. DeWille. No. 1,427,787; Sept. 5.
Letter sheet. M. G. Major. No. 1,428,503; Sept. 5.
Levers, Stop device for. T. Pidgeon. No. 1,427,969; Sept. 5.
Life-saving device for submarines. J. DeStefano. No. 1,428,012; Sept. 5.
Lifter: *See*—
Valve-spring lifter.
Liquid dispenser, Coin-controlled. E. F. Kross. No. 1,428,244; Sept. 5.
Liquid-level indicator. A. Novick and E. Fish. (Reissue.) No. 15,447; Sept. 5.
Loading apparatus. F. L. Caye. No. 1,428,472; Sept. 5.
Loading apparatus. W. Kemmerer. No. 1,428,240; Sept. 5.
Lock: *See*—
Automobile lock.
Jimmyproof lock.
Lamp lock.
Nut lock.
Transmission lock.
Lock. F. Soley. No. 1,428,455; Sept. 5.
Lock washer. E. S. Ensign. No. 1,427,946; Sept. 5.
Lock washer. E. A. Halbleib. No. 1,427,807; Sept. 5.
Locking mechanism. T. W. Bell. No. 1,427,934; Sept. 5.
Locomotive. W. P. Kiesel, jr. No. 1,428,441; Sept. 5.
Loom. W. S. Wells. No. 1,428,406; Sept. 5.
Loom. W. Zeedyk. Nos. 1,428,409–10; Sept. 5.
Lubricating emulsion. J. A. De Cew. No. 1,428,148; Sept. 5.
Lumber-roller bracket. J. B. Hawks. No. 1,428,328; Sept. 5.
Machines to be driven, Device for fixing driving engines or electromotors to. J. Schröder. No. 1,428,301; Sept. 5.
Magneto. H. F. Geist. No. 1,428,083; Sept. 5.
Manicuring instrument. A. F. Pozdeck. No. 1,428,396; Sept. 5.
Mast saddle. J. F. Godfrey. No. 1,427,950; Sept. 5.
Metal box. J. C. Wahl and P. G. Jacobson. No. 1,428,195; Sept. 5.
Metal, Cleaner for and method of cleaning. J. H. Gravell. No. 1,428,084; Sept. 5.
Metal from rusting, Composition for and method of preventing. J. H. Gravell. No. 1,428,085; Sept. 5.
Metal wheel, Floating-hub. L. F. Janke. No. 1,428,034; Sept. 5.
Meter: *See*—
Electric meter.
Mill-spout gate. F. B. M. Mercer and C. F. Bradburn. No. 1,427,834; Sept. 5.
Milling cutter. F. Wirard. No. 1,428,308; Sept. 5.
Mining machine. M. P. Holmes. No. 1,428,505; Sept. 5.
Mirror, Traffic. J. Mandel. No. 1,428,443; Sept. 5.
Mirrors, Mounting for supporting. W. La Hodny. No. 1,428,042; Sept. 5.
Mixer: *See*—
Concrete mixer.
Mixing apparatus. K. W. Bartlett. No. 1,428,315; Sept. 5.
Mold: *See*—
Pulp mold.
Mold. G. Cuozzo. No. 1,427,945; Sept. 5.
Mop, Polishing. J. J. Shickluna. No. 1,428,263; Sept. 5.
Motor: *See*—
Internal-combustion motor.
Pneumatic motor.
Motor-balancing device. J. W. Turner. No. 1,428,404; Sept. 5.
Mower, Motor. J. E. Eldridge, W. B. Burgess, C. E. Burgess, and C. N. Ashbee. No. 1,428,154; Sept. 5.
Music-roll cabinet. F. Perme, sr. No. 1,428,183; Sept. 5.
Music-roll perforator and printer. J. J. Davilla. No. 1,428,277; Sept. 5.
Musical instrument, Pneumatically-operated. A. P. Gustafson. No. 1,428,501; Sept. 5.
Musical instruments, Bow for. C. D. Rigg. No. 1,427,851; Sept. 5.
Nail, Coated. D. Morris. No. 1,428,247; Sept. 5.
Nail machine. J. B. Priesthoff. No. 1,427,845; Sept. 5.
Navigating instrument. B. W. Prall. No. 1,428,449; Sept. 5.
Needle, Embroidery. S. M. Riker. No. 1,428,397; Sept. 5.
Nut lock. J. J. Farrell. No. 1,427,797; Sept. 5.
Oil burner. W. R. Quinn. No. 1,427,910; Sept. 5.
Oil saver. C. M. Heeter. No. 1,427,811; Sept. 5.
Oil topping plant. B. Gallsworthy. No. 1,428,159; Sept. 5.
Oil trap and heating device. P. D. Barry. No. 1,428,205; Sept. 5.
Oils, Apparatus for cracking hydrocarbon. F. T. Manley. No. 1,428,338; Sept. 5.
Oils, Cracking hydrocarbon. F. T. Manley. No. 1,428,339; Sept. 5.
Oils, Oil converting process for the conversion and transformation of. J. H. Adams. Nos. 1,428,311–2; Sept. 5.
Oiling system. W. A. Edwards. No. 1,428,017; Sept. 5.
Ophthalmic mounting. H. K. Parsons. No. 1,428,393; Sept. 5.
Ores, Treatment of zirconium. O. Hutchins. No. 1,427,816; Sept. 5.
Organ action, Electro pneumatic. B. G. Austin. No. 1,427,997; Sept. 5.
Oven, Baker's. W. F. Schaller. No. 1,428,063; Sept. 5.
Packing cases and the like, Nail for. F. Molesworth. No. 1,428,111; Sept. 5.
Pail, Milk. G. C. Coolidge. No. 1,428,475; Sept. 5.
Paint for and method of preventing heated surfaces from rusting. J. H. Gravell. No. 1,428,086; Sept. 5.
Paint for vehicles, Stoving. H. J. Dykman. No. 1,428,152; Sept. 5.
Paint vehicle. W. A. Collings. No. 1,428,273; Sept. 5.
Panel. J. F. Hirt. No. 1,427,812; Sept. 5.
Paper and method of and means for coating it, Coated tissue. F. M. Schuler. No. 1,428,064; Sept. 5.
Paper, Apparatus for removing wall. E. T. Lancaster. No. 1,428,442; Sept. 5.
Paper barrels, Method of and apparatus for manufacturing. R. S. Bolger. No. 1,428,469; Sept. 5.
Parachute vent. G. M. Ball. No. 1,427,771; Sept. 5.
Parachutes and aerostats and constructing the same, Fabric structure for. G. M. Ball. No. 1,427,772; Sept. 5.
Paste-applying apparatus. W. C. Hunting. No. 1,427,815; Sept. 5.
Pasted strips, Drying and feeding mechanism for. R. A. Hendrickson. No. 1,428,329; Sept. 5.
Pasteurizer. Y. Kokusho. No. 1,428,379; Sept. 5.
Pearls and the like, Stringing. D. Weiss. No. 1,428,348; Sept. 5.
Pen. T. Clark. No. 1,428,079; Sept. 5.
Pen, Fountain. M. D. Davis. No. 1,428,417; Sept. 5.
Pen, Fountain. D. B. Kaufmann. No. 1,428,333; Sept. 5.
Pencil. R. T. Bell. No. 1,427,909; Sept. 5.
Pencil. H. A. Clark. No. 1,428,077; Sept. 5.
Pencil and eraser holder. J. E. Smoot. No. 1,428,188; Sept. 5.
Pencil holder. H. A. Clark. No. 1,428,076; Sept. 5.
Pencil, Magazine. A. Vasselli. No. 1,427,985; Sept. 5.
Petroleum, Apparatus for treating natural emulsions of. W. S. Barnickel. No. 1,428,204; Sept. 5.
Phosphates soluble, Rendering crude. F. Rüsberg. No. 1,428,259; Sept. 5.
Picture frame. P. L. Weaver. No. 1,427,874; Sept. 5.
Picture-slide-projection apparatus. E. Van Altena. No. 1,428,347; Sept. 5.
Pictures studio. L. Brown. No. 1,428,139; Sept. 5.
Pipe: *See*—
Smoking pipe.
Pipe. G. N. Broatch. No. 1,427,781; Sept. 5.

Pipe construction. P. F. Flagge. No. 1,428,427; Sept. 5.
Pipe cutter. J. G. Keatley. No. 1,428,288; Sept. 5.
Pipe-threading tool. A. Jarmolowsky. No. 1,428,035; Sept. 5.
Pistol, Automatic. D. H. Stevenson. No. 1,428,304; Sept. 5.
Pistol, Recoil-loading. J. Nickl. Nos. 1,427,966–7; Sept. 5.
Piston. V. W. Page. No. 1,428,492; Sept. 5.
Piston construction. O. W. Baker. No. 1,427,930; Sept. 5.
Piston ring. M. E. Sipe. No. 1,427,975; Sept. 5.
Pivotally-mounted bodies, Mechanism for counterbalancing. E. K. Standish. No. 1,428,345; Sept. 5.
Plaster board. C. R. Birdsey. No. 1,427,930; Sept. 5.
Plaster, Zinc-oxide adhesive. O. F. Radcliffe. No. 1,428,495; Sept. 5.
Plastic composition. L. T. Richardson. No. 1,427,911; Sept. 5.
Plastic, fluid, powdered, granular, or like substances, Molding and/or compacting. P. B. Jagger. No. 1,428,097; Sept. 5.
Plate-tightening device. H. D. Babcock. No. 1,427,803; Sept. 5.
Plier-joint construction. F. H. Bullard. No. 1,428,357; Sept. 5.
Pliers, Opticians' angling. P. N. Hansen. No. 1,428,029; Sept. 5.
Pneumatic motor, Double-acting. O. A. Ericson. No. 1,427,794; Sept. 5.
Poke, Animal. G. W. Knox. No. 1,428,038; Sept. 5.
Portage device. G. More. No. 1,428,180; Sept. 5.
Posthole digger. M. M. Arndt. No. 1,428,202; Sept. 5.
Press: *See*—
Printing press.
Punch press.
Presser rollers, Spring-regulating device for. G. C. Hosch and A. C. Owen. No. 1,428,372; Sept. 5.
Printing machines, Inking device for late-news and other. H. A. W. Wood and J. A. Isbell. No. 1,428,310; Sept. 5.
Printing machines, Inking mechanism for. O. Roesen. No. 1,427,853; Sept. 5.
Printing press. E. W. Cooper. No. 1,428,080; Sept. 5.
Printing, Protective. H. H. Dow. No. 1,428,278; Sept. 5.
Propeller blower. H. F. Schmidt. No. 1,427,859; Sept. 5.
Propellers, Synchronizing mechanism for reversible-pitch. E. G. McCauley. No. 1,427,830; Sept. 5.
Puller: *See*—
Wheel puller.
Pulp mold. J. C. Jankus. No. 1,428,437; Sept. 5.
Pump. L. H. Haney. No. 1,428,483; Sept. 5.
Pump. P. A. Myers. No. 1,428,181; Sept. 5.
Pump. C. R. Sessions. No. 1,427,974; Sept. 5.
Pump and the like, Submersible. J. B. Keating. No. 1,428,238; Sept. 5.
Pump, Compression. L. Chew and W. F. Jennings. No. 1,428,473; Sept. 5.
Pump-cylinder head. J. W. Drew. No. 1,428,222; Sept. 5.
Pump or compressor, Reciprocating. G. F. Steedman. No. 1,428,402; Sept. 5.
Pump, Rotary. G. Lobb. No. 1,428,173; Sept. 5.
Pumping apparatus, Well. C. C. Scharpenberg. No. 1,428,300; Sept. 5.
Punch and die for angle smith work. D. Scouler. No. 1,428,344; Sept. 5.
Punch press. J. A. Luther. Nos. 1,428,175–6; Sept. 5.
Quick-detachable coupling. J. A. White. No. 1,428,408; Sept. 5.
Radiator. C. W. Gross. No. 1,428,481; Sept. 5.
Radiator cap. J. H. Gosnell. No. 1,428,161; Sept. 5.
Radiator protector. A. E. Mood. No. 1,428,179; Sept. 5.
Radiotelegraphy. F. S. McCullough. No. 1,427,833; Sept. 5.
Radiotelephony. F. S. McCullough. No. 1,427,832; Sept. 5.
Rail frog. G. Delk. No. 1,428,220; Sept. 5.
Rail joint. H. L. Lyle. No. 1,428,107; Sept. 5.
Rail-joint chair. R. Freeman. No. 1,427,948; Sept. 5.
Rail tie plate. J. J. Hess and N. Johnson. No. 1,428,378; Sept. 5.
Railway coupling. H. W. Coston. No. 1,427,942; Sept. 5.
Railway, Elevated. J. B. Strauss. No. 1,427,920; Sept. 5.
Railway tie. G. Strom. No. 1,427,980; Sept. 5.
Railway tie and fastener. H. A. Clark. No. 1,428,078; Sept. 5.
Railway vehicles, Current collector for. R. and J. Bienvenüe. No. 1,428,138; Sept. 5.
Rain vision shield. H. Dickinson. No. 1,428,014; Sept. 5.
Raking and sweeping device, Road. C. A. Gunderson and R. P. Mason. No. 1,428,283; Sept. 5.
Rat trap. R. Cook. No. 1,427,784; Sept. 5.
Ratchet wrench. J. L. Hickey and J. Kracht. No. 1,428,371; Sept. 5.
Razor-blade holder and stropping device. H. O. Hastings. No. 1,428,164; Sept. 5.
Razor, Safety. T. W. Stewart. No. 1,427,864; Sept. 5.
Reamer, Expansion. A. A. Mulac. No. 1,428,391; Sept. 5.
Reel: *See*—
Yarn reel.
Refrigerating apparatus. W. and J. W. Day. No. 1,428,361; Sept. 5.
Refrigerating apparatus, Expansion valve for. F. J. Heldeman. No. 1,428,031; Sept. 5.
Refrigerator. L. Borden. No. 1,428,073; Sept. 5.
Refrigerator, Evaporative iceless. C. C. Swartwood. No. 1,427,981; Sept. 5.
Resetting mechanism. J. L. Wheeler. No. 1,428,407; Sept. 5.
Revolving table, Knockdown. G. J. Dahl. No. 1,428,275; Sept. 5.
Rifle. J. Fuchs. No. 1,428,081; Sept. 5.
Rim. G. E. Grundig and S. Dibbins. No. 1,428,432; Sept. 5.
Rim expander and lock. T. F. Lawter. No. 1,428,486; Sept. 5.
Rim, Collapsible. S. N. Meyer. No. 1,428,386; Sept. 5.
Rim expanding and contracting tool. W. S. Norden. No. 1,428,052; Sept. 5.
Ring: *See*—
Key ring.
Piston ring.
Rod: *See*—
Connecting rod.
Rolling mills, Roll for. F. M. Canda. No. 1,428,142; Sept. 5.
Roof. D. Craig. No. 1,427,943; Sept. 5.
Roof flashing. G. E. Swenson. No. 1,428,457; Sept. 5.
Roofing machine. G. E. and J. Van Vorst. No. 1,427,871; Sept. 5.
Roofing strip. F. Laist and L. E. Jones. No. 1,428,160; Sept. 5.
Rope carrier. J. F. Godfrey. No. 1,427,949; Sept. 5.
Rope clip. J. Knight. No. 1,428,037; Sept. 5.
Rosin and using same, Compound for hardening common. W. H. Scheel. No. 1,428,120; Sept. 5.
Rounding machine. A. R. Schoenky. No. 1,428,261; Sept. 5.
Rug-display device. I. Malasky. No. 1,428,490; Sept. 5.
Sadiron, Electric. J. A. Howard, sr. No. 1,428,233; Sept. 5.
Sand mold and apparatus for making it. A. Christianson. No. 1,428,359; Sept. 5.
Sash fastener. J. O'Connor. No. 1,428,447; Sept. 5.
Saucer. D. F. Loudon. No. 1,428,487; Sept. 5.
Saw machine, Portable reciprocating. A. Bills. No. 1,428,208; Sept. 5.
Saw support and guide. D. W. Solomon. No. 1,428,268; Sept. 5.
Saws, Wheel-support attachment for drag. E. G. Krebs. No. 1,428,506; Sept. 5.
Scales. C. Hausmann. No. 1,428,165; Sept. 5.
Scarecrow. S. H. Chase. No. 1,428,216; Sept. 5.
Screens and forming same, Lock joint for centrifugal. E. Daniels. No. 1,428,010; Sept. 5.
Seal, Hermetical. W. L. Van Keuren. No. 1,427,870; Sept. 5.
Seat: *See*—
Boatswain's seat.
Seat construction, Automatic folding. J. E. Erickson. No. 1,428,018; Sept. 5.
Seat for children, Convertible. E. A. Kratz. No. 1,428,039; Sept. 5.
Secondary battery. G. W. Pleis, sr., and G. W. Pleis, jr. No. 1,427,970; Sept. 5.
Self-lubricating bolt. C. H. Ortman. Nos. 1,428,251–2; Sept. 5.
Separator: *See*—
Cream separator.
Sewing machine, Book-. L. Egger. No. 1,428,153; Sept. 5.
Sewing machines, Fan attachment for. W. Laburda. No. 1,427,827; Sept. 5.
Sex calculator. H. R. Tidswell. No. 1,428,065; Sept. 5.
Shears holder. T. Rayder. No. 1,427,849; Sept. 5.
Sheet delivery. O. Roesen. No. 1,427,852; Sept. 5.
Sheet-feeding mechanism. F. De Minico. No. 1,428,149; Sept. 5.
Shingle-machine spur roll ratchet. A. G. Dehlin. No. 1,428,362; Sept. 5.
Shock absorber. R. S. Fulton. No. 1,428,225; Sept. 5.
Shock absorber. G. H. Tripplehorn. No. 1,428,306; Sept. 5.
Shoe guard. J. Holmen. No. 1,428,232; Sept. 5.
Shoe sandal sole. J. P. Steele. No. 1,428,123; Sept. 5.
Shoe-shaping machine. C. M. Bradford and R. C. Simmons. No. 1,427,778; Sept. 5.
Shoe stretcher. A. B. Elmstrom. No. 1,428,423; Sept. 5.
Shuttles, Tensioning device for. A. R. Meeks. No. 1,428,445; Sept. 5.
Sieve, Flour. M. Heald. No. 1,427,810; Sept. 5.
Sign, Animated. R. M. Craig. No. 1,428,007; Sept. 5.
Sign, Changeable. C. Moore. No. 1,428,390; Sept. 5.
Sign, Electric advertising. O. Fehler. No. 1,428,424; Sept. 5.
Sign flasher. J. H. Wheelock. No. 1,428,499; Sept. 5.
Signs, Making. A. M. Knauber. No. 1,428,334; Sept. 5.
Signal: *See*—
Automobile signal.
Signal device. J. M. Mele. No. 1,428,045; Sept. 5.
Signaling system for single-track roads. S. N. Wight. No. 1,427,882; Sept. 5.
Silo. E. C. Hodges. No. 1,428,168; Sept. 5.
Sink water-stop plug, Kitchen-. F. C. Grover. No. 1,428,228; Sept. 5.
Skate and wheel therefor, Roller. O. W. Boche. No. 1,428,210; Sept. 5.
Slag pocket. A. W. Smith. No. 1,427,862; Sept. 5.
Slicing-machine knives, Adjusting means for. P. J. Lucey. No. 1,428,291; Sept. 5.
Slicing machines, Knife guard for. P. J. Lucey. No. 1,428,292; Sept. 5.
Smoking pipe. G. A. Milkie. No. 1,428,446; Sept. 5.
Smut-sheeting machines, Back-bar transfer mechanism for. J. E. Gilbert and G. W. Harris. No. 1,428,026; Sept. 5.
Snatch block. R. Robeson and J. Lee. No. 1,428,118; Sept. 5.
Socket, Slip. E. C. Immel. No. 1,428,094; Sept. 5.

Soldering iron, Electric. J. T. Griffin, W. A. Timm, and A. E. Santschi. No. 1,428,227; Sept. 5.
Soldering solution. J. H. Gravell. No. 1,428,088; Sept. 5.
Soldering tool. H. K. Austin. No. 1,427,770; Sept. 5.
Sole-pressing machine. C. C. Blake. No. 1,427,940; Sept. 5.
Sole protector. W. H. Betts. No. 1,428,072; Sept. 5.
Sole, Vulcanized. M. Brown. No. 1,428,356; Sept. 5.
Spark plug. H. G. Schlecht. No. 1,428,451; Sept. 5.
Speed and clutching mechanism, Change-. C. H. Strong. No. 1,428,346; Sept. 5.
Sprinkler head. W. A. Kennedy and A. J. Loepsinger. No. 1,427,822; Sept. 5.
Spun material resembling wool, cotton, or chappe from viscose solutions, Producing. P. H. Minck. No. 1,428,246; Sept. 5.
Stake. J. H. Wittmann. No. 1,427,889; Sept. 5.
Stamp, Box-press. J. I. Pogue. No. 1,427,843; Sept. 5.
Stand: *See*—
Tire stand.
Steam circulating and regenerating system. J. O. Woodsome and J. H. Swan. No. 1,428,198; Sept. 5.
Steam engine. J. D. White and D. S. Stout. No. 1,428,464; Sept. 5.
Steam engine, Rotary. J. del Moral. No. 1,428,477; Sept. 5.
Steam trap. C. E. Walsh. No. 1,427,987; Sept. 5.
Steel and producing same, Rust-resisting. J. H. Gravell. No. 1,428,087; Sept. 5.
Steering gear for road machines. F. E. Arndt. (Reissue.) No. 15,443; Sept. 5.
Stove burner. C. J. Clefton. No. 1,428,146; Sept. 5.
Stove, Foldable. D. Neal. No. 1,428,113; Sept. 5.
Stovepipe thimble. J. M. Meade. No. 1,428,294; Sept. 5.
Strainer, Twin. C. F. Braun. No. 1,428,270; Sept. 5.
Sugars from substances containing cellulose, Obtaining. A. Classen. No. 1,428,217; Sept. 5.
Suits, Union. T. H. Smith. No. 1,428,504; Sept. 5.
Support, Flexible-balanced. A. C. Foulk. No. 1,427,799; Sept. 5.
Surgical baker. L. Perlman. No. 1,427,908; Sept. 5.
Surveying instrument. A. D. Hadsel. No. 1,428,028; Sept. 5.
Switch: *See*—
Electric switch.
Table: *See*—
Revolving table.
Tag, Parcel-post envelope. W. B. Perrin. No. 1,428,494; Sept. 5.
Telegraph machine, Recording. J. A. Hullt. No. 1,428,033; Sept. 5.
Telephone-call circuits. J. F. Toomey and O. H. Loynes. No. 1,427,923; Sept. 5.
Telephone transmitters, Attachment for. F. Sutherland. No. 1,428,305; Sept. 5.
Tent ventilator. W. T. Runcie. No. 1,428,343; Sept. 5.
Textile stock, etc., Drier for. M. F. Kevlin. No. 1,428,290; Sept. 5.
Thread-cutting tool and holder therefor. D. Breckenridge. No. 1,428,075; Sept. 5.
Tie: *See*—
Railway tie.
Tie adjuster and retainer. E. A. Slack. No. 1,428,454; Sept. 5.
Tile, Roofing. O. A. Pedersen. No. 1,427,968; Sept. 5.
Tinning apparatus. J. E. Schlieper. No. 1,427,858; Sept. 5.
Tire and making same. G. D. Kratz. No. 1,428,040; Sept. 5.
Tire carriers, Attachment for. W. R. Green. No. 1,428,027; Sept. 5.
Tire, Combined cushion and pneumatic. N. W. Finch. No. 1,427,897; Sept. 5.
Tire, Emergency. P. N. Schorr. No. 1,428,452; Sept. 5.
Tire-making fabrics, Machine for cutting and feeding. B. De Mattia. No. 1,428,420; Sept. 5.
Tire-pressure-gauge connection. O. H. Hansen. No. 1,428,502; Sept. 5.
Tire stand. C. T. Fairbanks. No. 1,428,223; Sept. 5.
Tire-vulcanizing apparatus, Method and. O. M. Fredd. No. 1,428,428; Sept. 5.
Tires, Armor for. S. Andrews. No. 1,428,467; Sept. 5.
Tires, Device for mounting and removing. C. Kerschbaum. No. 1,428,440; Sept. 5.
Tires, Making semisolid. R. H. Waters. No. 1,428,508; Sept. 5.
Tires, Making shoes or casings for pneumatic. B. De Mattia. No. 1,428,419; Sept. 5.
Toilet implement. H. S. Satterlee. No. 1,427,857; Sept. 5.
Toilet package. M. Kaufman. No. 1,427,820; Sept. 5.
Tone and line positive, Preparing a rotary gravure. J. M. Crowe. No. 1,428,009; Sept. 5.
Toy. J. J. Earley. No. 1,427,790; Sept. 5.
Toy, Constructional. J. L. L. Roquefort-Villenuve. No 1,428,496; Sept. 5.
Toy, Figure. P. S. H. Newell. No. 1,428,182; Sept. 5.
Toy house. A. F. Wegener. No. 1,428,405; Sept. 5.
Toy, Mechanical. J. Dymnicki. No. 1,427,789; Sept. 5.
Toy semaphore, Electrically-operated. H. O. Wessel. No. 1,427,881; Sept. 5.
Toy top. F. L. Lindstrom. No. 1,428,106; Sept. 5.
Toy torpedoes, Method and apparatus for charging. C. Macchia. No. 1,427,906; Sept. 5.
Tractor. E. A. Patch. No. 1,428,394; Sept. 5.
Tractor, Garden. R. P. Hicks. No. 1,428,231; Sept. 5.
Train-control device, Automatic. H. G. Davis. No. 1,428,511; Sept. 5.
Train-lighting-generator drive. D. C. Wilson. No. 1,428,309; Sept. 5.
Transforming effects, Method of and apparatus for producing. R. M. Craig. No. 1,428,008; Sept. 5.
Transmission channels, Means for signaling over multiplex. L. Espenschied and H. A. Affel. No. 1,428,155; Sept. 5.
Transmission lock. E. H. Baxter. No. 1,428,316; Sept. 5.
Transmission mechanism. W. H. Long. No. 1,427,961; Sept. 5.
Transmission mechanism. J. Roth. No. 1,428,257; Sept. 5.
Transmission-shifting mechanism. B. C. Zuhars and H. D. Clarke. No. 1,427,994; Sept. 5.
Transmitting device, Flexible. G. P. Luckey. No. 1,427,829; Sept. 5.
Trap: *See*—
Bandit trap. Steam trap.
Rat trap.
Trousers stretcher and presser. I. Corbe. No. 1,428,274; Sept. 5.
Truck. A. A. Clark. No. 1,428,004; Sept. 5.
Truck, Dump. R. McEldowney. No. 1,428,293; Sept. 5.
Truck, Warehouse. A. J. Morrow. No. 1,428,248; Sept. 5.
Trunk. A. W. Balder. No. 1,428,313; Sept. 5.
Tub: *See*—
Washing-machine tub.
Tub bottom. L. H. Payne. No. 1,427,907; Sept. 5.
Tube and making same, Inner. M. A. Marquette. No. 1,428,382; Sept. 5.
Tube cutting. R. E. Bradley. No. 1,428,355; Sept. 5.
Tubes, Compensating device for reaction. C. M. Colvin. No. 1,428,323; Sept. 5.
Tubing catcher. W. Meredith and W. L. Foster. No. 1,428,385; Sept. 5.
Tubing machine. M. S. Lower. No. 1,428,381; Sept. 5.
Turntable. M. L. Hoeflken. No. 1,428,090; Sept. 5.
Tying device. J. A. Brogan. No. 1,427,782; Sept. 5.
Type-bar key-lever mechanism. L. R. Roberts. No. 1,428,117; Sept. 5.
Typewriter. C. W. Barnaby. No. 1,428,130; Sept. 5.
Typewriter tabulators, Tabulator bar of. T. E. Büschmann. No. 1,428,140; Sept. 5.
Typewriters, Method and apparatus for fixing slot-back types upon the type levers of. T. E. Büschmann. No. 1,428,141; Sept. 5.
Typewriters, Work-web for. J. A. B. Smith. No. 1,428,264; Sept. 5.
Typewriting machine. E. A. Burns. No. 1,428,213; Sept. 5.
Typewriting machine. G. W. Campbell. No. 1,428,215; Sept. 5.
Typewriting machine. J. E. Davidson. No. 1,428,325; Sept. 5.
Typewriting machine. E. A. Peterson. No. 1,427,909; Sept. 5.
Typewriting machine. J. A. B. Smith. No. 1,428,265; Sept. 5.
Typewriting machine. E. Thomas. No. 1,428,193; Sept. 5.
Typographical slugs, Mold for. L. C. Tinsley. No. 1,428,459; Sept. 5.
Uncoupling device. C. W. Nicholas. No. 1,428,051; Sept. 5.
Valve, Compound. E. P. Rich. No. 1,428,254; Sept. 5.
Valve, Engine. G. P. Aborn. No. 1,427,767; Sept. 5.
Valve for high-pressure gas regulation. C. B. Rogers. No. 1,427,854; Sept. 5.
Valve for oil wells, Working. H. J. Steinberger. No. 1,427,978; Sept. 5.
Valve, Forcer steam. E. O. Corey. No. 1,428,144; Sept. 5.
Valve gear. C. J. Pilliod. Nos. 1,427,840–1; Sept. 5.
Valve-grinding device. C. Ruiz. No. 1,427,913; Sept. 5.
Valve, Pump. R. W. Murray. No. 1,427,887; Sept. 5.
Valve-spring lifter. F. M. Butler. No. 1,428,471; Sept. 5.
Vault, Burial. C. Howard. No. 1,428,373; Sept. 5.
Vegetable-washing machine. W. L. Street. No. 1,428,125; Sept. 5.
Vehicle body. J. J. Kelly. No. 1,428,239; Sept. 5.
Vehicle, Motor. A. E. Osborn. No. 1,428,053; Sept. 5.
Vehicle suspension. H. W. Bell. No. 1,427,933; Sept. 5.
Vehicle suspension. W. R. Williams. No. 1,427,992; Sept. 5.
Vehicle wheel. J. J. Haskin. No. 1,428,229; Sept. 5.
Vehicle wheel. J. Kercher. No. 1,428,241; Sept. 5.
Vehicle wheel. J. U. Korée and A. M. Malluk. No. 1,428,243; Sept. 5.
Vehicles, Braking mechanism for road. G. S. Sheinker. No. 1,427,916; Sept. 5.
Vehicles, Elastic connecting shackle for. E. Kuhn. No. 1,428,245; Sept. 5.
Vehicles, Spring suspension mechanism for. F. H. Headley. No. 1,428,166; Sept. 5.
Ventilator: *See*—
Tent ventilator. Window ventilator.
Ventilator louvers, Holding means for. W. Skipworth. No. 1,427,917; Sept. 5.
Vessel, Nonsinkable. H. F. Waits. No. 1,428,461; Sept. 5.
Vessels, Hull construction for submarine and like. F. Cossutta. No. 1,428,218; Sept. 5.
Viscosimeter. L. L. Tiffany. No. 1,427,922; Sept. 5.
Vulcanizers, Air and steam bag for. C. G. Andrews. No. 1,428,201; Sept. 5.
Waffle iron. P. F. Crossen. No. 1,428,476; Sept. 5.
Wall construction. E. R. Brainerd. No. 1,428,470; Sept. 5.

Walls, Unit slab for building. B. F. Davis. No. 1,428,147; Sept. 5.
Washer: *See*—
Lock washer.
Washing machine. T. O. Theobald. No. 1,427,867; Sept. 5.
Washing-machine tub. H. W. Eden. No. 1,427,791; Sept. 5.
Watchcase. A. L. Haman. No. 1,427,808; Sept. 5.
Water heater, Electric. A. Fisher. No. 1,428,157; Sept. 5.
Water-level gauge. J. W. Grantland. No. 1,428,162; Sept. 5.
Waterproofing composition. O. Ruff. No. 1,428,258; Sept. 5.
Wax, Electric distributor for sealing. H. Sanglier. No. 1,428,062; Sept. 5.
Weaving frame. M. O. Anthony. No. 1,427,769; Sept. 5.
Weed and grass exterminating machine. J. P. Hird. No. 1,428,032; Sept. 5.
Weighing machine, Automatic. J. G. Pieser and A. L. and J. C. Quast. No. 1,428,253; Sept. 5.
Welding machines operating with continuous current, Working electric resistance. E. Schröder. No. 1,428,262; Sept. 5.
Well-drilling bit. P. W. Smith. No. 1,428,122; Sept. 5.
Well-washing device. F. E. Crotto. No. 1,427,944; Sept. 5.
Wheel: *See*—
Cushion wheel. Metal wheel.
Disk wheel. Vehicle wheel.
Gear wheel.
Wheel construction. B. R. C., and R. S. Bolenbaugh and L. W. Long. No. 1,428,468; Sept. 5.
Wheel puller. H. D. Skiles. No. 1,427,976; Sept. 5.
Wheels, Press for setting metal-felly. P. C. Seeberg. No. 1,428,303; Sept. 5.
Wheels, Traction device for. C. K. Holt. No. 1,427,813; Sept. 5.
Wick burner, Horizontal-. B. Muller-Thym. No. 1,428,112; Sept. 5.
Window construction. T. E. Walker. No. 1,428,068; Sept. 5.
Window ventilator. C. C. Brabant. No. 1,428,074; Sept. 5.
Window weight. C. E. Strating. No. 1,428,191; Sept. 5.
Wire-cutting implement. P. P. Daniels. No. 1,428,276; Sept. 5.
Wire straps, Machine for making. W. N. Lurcott. No. 1,427,962; Sept. 5.
Wire stretcher. J. H. Best. No. 1,428,414; Sept. 5.
Wires in fusible sheets, Device for embedding. R. B. Reed, jr. No. 1,428,185; Sept. 5.
Wireless repeater system. E. A. Sperry. No. 1,428,507; Sept. 5.
Woodworking machines, Feed mechanism for. A. A. Johnson. No. 1,428,036; Sept. 5.
Work support, Slidable. A. S. Blowers. No. 1,427,777; Sept. 5.
Wrench: *See*—
Ratchet wrench.
Wrench. G. Ayers. No. 1,428,466; Sept. 5.
Wrench. R. L. Glabaznya. No. 1,428,282; Sept. 5.
Wrench. C. H. Stauffer. No. 1,427,918; Sept. 5.
Wrenches, Releasing device for pipe. N. K. Smith. No. 1,428,121; Sept. 5.
Writing machine, Multiple-. F. A. Johnson. No. 1,428,331; Sept. 5.
Yarn reel. C. E. Rogers. No. 1,428,119; Sept. 5.
Zinc-sulphate solutions, Purification of. C. R. Kuzell and J. R. Marston. No. 1,427,826; Sept. 5.

ALPHABETICAL LIST OF DESIGNS.

Advertising device. F. S. Woodrow. No. 61,457; Sept. 5.
Aviator's badge. H. Marvet. No. 61,445; Sept. 5.
Bulletin and time board, Combined. I. A. Burnett. No. 61,435; Sept. 5.
Canopy, Ceiling. M. Schlepp. No. 61,450; Sept. 5.
Chandelier plate. M. Schlepp. No. 61,449; Sept. 5.
Display stand. J. Goldberg. No. 61,438; Sept. 5.
Emblem or badge. H. E. Smart. No. 61,452; Sept. 5.
Flag. S. Gadomski. No. 61,437; Sept. 5.
Flowerpot. D. Raymond. No. 61,448; Sept. 5.
Games, Chart for educational. A. Z. Baker. No. 61,434; Sept. 5.
Gas heater. G. F. Schmidt. No. 61,451; Sept. 5.
Lens plate, Signal. D. L. Johnson. No. 61,443; Sept. 5.
Paper, Wall. E. Ericson. No. 61,436; Sept. 5.
Plate or similar article. W. D. Haviland. Nos. 61,439–40; Sept. 5.
Powder container. C. S. Humphrey. No. 61,442; Sept. 5.
Ring. A. Verber. No. 61,455; Sept. 5.
Ring, Class. G. A. Meell. No. 61,446; Sept. 5.
Rubber heel. D. M. Todd. No. 61,454; Sept. 5.
Rubber sole. D. M. Todd. No. 61,453; Sept. 5.
Telephone cabinet. C. A. Martin. No. 61,444; Sept. 5.
Tire. H. J. Andrus. Nos. 61,432–3; Sept. 5.
Tire tread. E. A. Hecht. No. 61,441; Sept. 5.
Tire tread. P. Worth. No. 61,458; Sept. 5.
Tire tread, Pneumatic. O. Moynihan. No. 61,447; Sept. 5.
Watchcase crown. L. M. Williams. No. 61,456; Sept. 5.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Automobile finishes. Ditzler Color Company. No. 158,426; Sept. 5.
Automobiles, Electric signal and tail lights for use on. U. S. Automobile Indicator Co. No. 158,552; Sept. 5.
Balls, Golf. Holmac, Inc. No. 158,458; Sept. 5.
Batteries, Dry. W. T. Grant Company. No. 158,447; Sept. 5.
Batteries, Storage. Charles William Stores, Inc. No. 158,403; Sept. 5.
Battery chargers and electrical rectifiers. Westinghouse Union Battery Co. No. 158,569; Sept. 5.
Battery plates, Lead. Continental Battery Company. No. 158,417; Sept. 5.
Beverage and flavoring therefor, Nonalcoholic fruit. W. K. Earle. No. 158,429; Sept. 5.
Beverage sold as a soft drink. Crown Brewing Co. No. 158,419; Sept. 5.
Beverage sold as a soft drink. W. C. Hathaway. No. 158,578; Sept. 5.
Beverage sold as soft drinks and sirup for same. Kimberly Club Sherry Co. No. 158,580; Sept. 5.
Beverages sold as a soft drink. Gebr. Zuppinger. No. 158,573; Sept. 5.
Beverages sold as a soft drink. H. C. Schranck Co. No. 158,530; Sept. 5.
Beverages sold as soft drinks and sirups for making the same. Cherry Blossom Mfg. Co. Nos. 158,404–9; Sept. 5.
Boots and shoes of leather. Juvenile Shoe Corporation of America. No. 158,468; Sept. 5.
Brushes. Florence Manufacturing Company. No. 158,437; Sept. 5.
Brushes, Hair, cloth, flesh, and nail. Atlantic Comb Works. No. 158,381; Sept. 5.
Butter. Capital City Products Company. No. 158,397; Sept. 5.
Buttermilk tablets. Parke, Davis & Company. No. 158,514; Sept. 5.
Candy, Chocolate. Chocolate Products Company. No. 158,576; Sept. 5.
Canned fruits and vegetables. Virden Packing Company. Nos. 158,560–2; Sept. 5.
Canned fruits, fish, and vegetables, spices, etc. Federal Grocery Co. No. 158,441; Sept. 5.
Canned fruits, vegetables, fish, meat, oysters, catsup, and soup. Albert F. Remy & Co. No. 22,399; renewed Jan. 31, 1923.
Canned sardines. Great Atlantic and Pacific Tea Company. No. 158,448; Sept. 5.
Carbons, Decolorizing and activated. Carbrox Company. No. 158,398; Sept. 5.
Carriages, machines, plows, etc., Bolts for. Upson Nut Company. No. 20,628; renewed Jan. 19, 1922.
Cement. United Shoe Machinery Corporation. No. 158,555; Sept. 5.
Chemical and pharmaceutical preparation. Society of Chemical Industry in Basle. No. 158,543; Sept. 5.
Chemicals and paints, more particularly lithopone, permanent zinc paint. Ste. Ame. des Industries Chimiques Wilsele. No. 158,546; Sept. 5.
Chronometers, watches, clocks, wrist watches, and sautoir watches. H. E. Jacobi. No. 158,466; Sept. 5.
Cigars. J. N. McCrary. No. 158,510; Sept. 5.
Cigars. Reid, Murdoch & Co. No. 158,523; Sept. 5.
Cigars. Patterson and Hoffman. No. 158,516; Sept. 5.
Cigars. W. P. Roberts. No. 158,532; Sept. 5.
Cigars. E. J. Schaefer. No. 158,529; Sept. 5.
Cigars, cigarettes, smoking and chewing tobacco. Mi Favorita Cigar Company. No. 158,495; Sept. 5.
Cigars, Manufactured. H. Morrier. Nos. 158,503–4; Sept. 5.
Clocks. William L. Gilbert Clock Company. No. 158,445; Sept. 5.
Clocks. James McCreery & Company. No. 158,486; Sept. 5.
Clocks, Alarm. Marshall Field & Company. No. 158,494; Sept. 5.
Clocks and watches. Keith-Landis Corporation. No. 158,471; Sept. 5.
Clocks, watches, and component parts thereof. Western Clock Co. No. 158,567; Sept. 5.
Coats, Gunning. Star Sporting Goods Co. No. 158,545; Sept. 5.
Collars. Frank & Co. No. 158,439; Sept. 5.
Collars, cuffs, cravats, knitted and textile underwear for men and women, outer shirts for men. J. Hayem and Cie. No. 158,453; Sept. 5.
Corsets, hose supporters, abdominal belts, brassières, etc. A. H. Lockwood. No. 158,480; Sept. 5.
Cosmetic for treating the eyebrows. S. Markman. No. 158,493; Sept. 5.
Cosmetics, particularly solutions for lightening the hair. J. Sénégas. No. 158,586; Sept. 5.
Cough drops. E. G. Bins. No. 158,575; Sept. 5.
Cough drops and cough candy. H. Pettersen. No. 158,457; Sept. 5.
Cough sirup. C. A. Anstadt. No. 158,378; Sept. 5.
Creams, antiseptic beauty balm, hair tonic, hair-curling fluid, Face-cleansing and face. T. E. Isaacs. No. 158,465; Sept. 5.
Creams, Face. H. P. Cogbill. No. 158,413; Sept. 5.
Creams, Face. H. Lewis. No. 158,478; Sept. 5.
Dates, Colmer grapes, Muscatel grapes, and Belgian endives, Tunis. Van Dyk & Lindsay Inc. No. 158,559; Sept. 5.
Dental tools. United States Dental Manufacturing Co. Nos. 158,556–7; Sept. 5.
Dental tools and appliances. Kuroris Supply Company. No. 158,476; Sept. 5.
Deodorants. K. W. Moore. No. 158,497; Sept. 5.
Dish-washing machines, Electric. Knox Motors Company. No. 158,472; Sept. 5.
Dish-washing machines, Electric. A. S. Loveland. No. 158,485; Sept. 5.
Doll. K. H. Rogers. No. 158,524; Sept. 5.
Dolls. Averill Mfg. Corp. No. 158,382; Sept. 5.
Draft devices for heating apparatus, Automatically electrically-controlled. Philadelphia Steam Heating Co. No. 158,518; Sept. 5.
Dresses, Ladies' and misses'. Levy Shulman and Co. No. 158,538; Sept. 5.
Dresses, Women's and children's. Carlisle Garment Co. No. 158,399; Sept. 5.
Dyes and dyestuffs. Grasselli Chemical Company. No. 158,449; Sept. 5.
Dyes, Direct color. Heller & Merz Company. No. 158,579; Sept. 5.
Dyes, Union and acid. H. Kohnstamm & Co. No. 158,473; Sept. 5.
Eggs. Poultry Producers of Central California, Inc. No. 158,582; Sept. 5.
Electric generator apparatus, Self-contained. Columbian Bronze Corporation. No. 158,414; Sept. 5.
Electric household appliances, Certain. George Borgfeldt & Co. No. 158,391; Sept. 5.
Electric-lighting fixtures. St. Louis Brass Mfg. Co. No. 158,548; Sept. 5.
Electric-lighting fixtures and parts. S. Sharlin. No. 158,536; Sept. 5.
Electric-lighting sets for Christmas trees. Peerless Light Company. No. 158,517; Sept. 5.
Electric motors. Racine Electric Co. No. 158,520; Sept. 5.
Electrical apparatus, Certain. Dayton Pump & Manufacturing Company. No. 158,422; Sept. 5.
Electrical apparatus, Certain. Delta-Star Electric Company. No. 158,423; Sept. 5.
Electrical apparatus, Certain. Gebrüder Siemens & Company. No. 158,444; Sept. 5.
Electrical devices, Certain. National Stamping & Electric Works. No. 158,508; Sept. 5.
Electrical plugs, attachment plugs, caps, etc. Magnus Electric Co. No. 158,491; Sept. 5.
Electrical switches. Monitor Controller Company. No. 158,496; Sept. 5.
Electrical warning signals. E. A. Laboratories, Inc. No. 158,477; Sept. 5.
Engines, Timers for internal-combustion. U & J Carburetor Company. No. 158,551; Sept. 5.
First-aid kits. Adjuria Inc. No. 158,373; Sept. 5.
Fishing line. Ashaway Line & Twine Manufacturing Company. No. 158,380; Sept. 5.
Flour, Vegetable. Emido Company. No. 158,432; Sept. 5.
Fruits, Fresh. W. T. Weaver. No. 158,566; Sept. 5.
Fuses. Economy Fuse and Manufacturing Co. No. 158,430; Sept. 5.
Gasoline. W. H. Barber Co. No. 158,385; Sept. 5.
Gasoline, naphtha, fuel oils, kerosene, etc. Henry H. Cross Company. No. 158,418; Sept. 5.
Ginger ale. Abner-Drury Company. No. 158,371; Sept. 5.
Glue, Veneer. Bitu-Mo-Lin Products Co. No. 158,389; Sept. 5.
Grapes, Fresh. Tracy-Waldron Fruit Company. No. 158,587; Sept. 5.
Hair bleach. J. H. Karp. No. 158,469; Sept. 5.
Hair clippers for toilet use, Certain. American Shearer Manufacturing Company. No. 22,067; renewed Nov. 29, 1922.
Hair grower and shampoo. E. J. Bowen. No. 158,392; Sept. 5.
Hair lotion. C. F. Root. No. 158,525; Sept. 5.
Heater cords. Driver-Harris Company. No. 158,428; Sept. 5.
Hosiery. Paramount Knitting Company. No. 158,513; Sept. 5.
Ignition accessories. J. Sharp. No. 158,537; Sept. 5.
Insecticides. Garden Chemical Co. No. 158,442; Sept. 5.
Insecticides. Garlough and Nave. No. 158,577; Sept. 5.
Lamp, Electric. Light-Sight Products Corporation. No. 158,479; Sept. 5.
Lamp sockets, lamp-cover sockets and plugs, Electric. Harter Mfg. Company. No. 158,452; Sept. 5.

Lamps, Incandescent electric. Bettalyte Incandescent Lamp Co. No. 158,387; Sept. 5.
Lamps, Portable electric. Waterbury Metal Wares Co. No. 158,563; Sept. 5.
Laundry tubs, Stationary. Chicago Granitine Manufacturing Company. Nos. 158,410–11; Sept. 5.
Liniment. A. J. Freeman. No. 158,440; Sept. 5.
Liniment for use in the treatment of rheumatism. J. H. Waugh. No. 158,564; Sept. 5.
Lye. P. C. Tomson & Co. No. 158,550; Sept. 5.
Malt extract. M. J. Murphy. No. 158,506; Sept. 5.
Malt-extract sirup for food purposes. Schreiber Products Corporation. No. 158,531; Sept. 5.
Malt extracts. H. Krauss. No. 158,475; Sept. 5.
Medicated confection useful in stimulating digestion. D. C. Rose. No. 158,526; Sept. 5.
Medicinal and pharmaceutical preparation for indigestion, Certain. J. R. Carr. No. 158,400; Sept. 5.
Medicinal preparation, Certain. Dr. Peter Fahrney & Sons Co. No. 158,434; Sept. 5.
Medicinal preparation for diseases of the liver, stomach, or bowels. J. S. Robinson. No. 22,266; renewed Dec. 27, 1922.
Medicinal preparations, Certain. J. B. Bengue. No. 158,574; Sept. 15.
Medicine for asthma, croup, etc. E. McDonnell. No. 158,487; Sept. 5.
Medicine for general tonic purposes, especially rheumatism. J. D'Anna. No. 158,420; Sept. 5.
Medicine for the treatment of the stomach, liver, and intestines. A. H. Swinburne. No. 158,549; Sept. 5.
Medicines for the cure of blood diseases. G. L. Fowler. No. 22,114; renewed Dec. 6, 1922.
Medicines, Proprietary. F. J. Kozlowski. No. 158,474; Sept. 5.
Musical instruments. Jerome Thibouville-Lamy. Nos. 21,291–2; renewed June 14, 1922.
Nut-kernel paste. Gasco Specialty Company. No. 158,443; Sept. 5.
Oil, Coconut. United Vegetable Oil Refinery, Inc. No. 158,558; Sept. 5.
Oil, Flotation. American Pine Products Corporation. No. 158,376; Sept. 5.
Oil, Olive. Bragno & Mustari. No. 158,393; Sept. 5.
Oil, Olive. G. Sensat, Hijos. No. 158,534; Sept. 5.
Oils and greases, Lubricating. John Sexton and Company. No. 158,535; Sept. 5.
Ointment for skin diseases. Exene Laboratories. No. 158,433; Sept. 5.
Ointment for the treatment of rheumatism and neuralgic pain. W. D. Davis. No. 158,421; Sept. 5.
Onions, Raw. Confederated Onion Growers Association. No. 158,416; Sept. 5.
Overalls, overall coats, and pants, Men's and boys'. Fort Smith Garment Co. No. 158,540; Sept. 5.
Paint, Dry, paste, and ready-mixed. Industrial Paint Company. No. 158,460; Sept. 5.
Paints. H. H. Hirsch. No. 158,455; Sept. 5.
Paints and varnishes, Fireproof. N. M. Hopkins. No. 158,459; Sept. 5.
Paints, combination whitelead, etc. Hoboken White Lead & Color Works. No. 158,456; Sept. 5.
Paints, Dry. Cleveland Coatings Company. No. 158,412; Sept. 5.
Paints, varnishes, and stains. Central Paint & Varnish Mfg. Co. No. 158,401; Sept. 5.
Paintbrushes. Baker Brush Co. No. 158,383; Sept. 5.
Paper, Impression. H. C. Davison. No. 21,868; renewed Oct. 18, 1922.
Pharmaceutical preparations. Frederick F. Ingram Company. Nos. 158,463–4; Sept. 5.
Poison for rats, mice, and insects. Rat Biscuit Company. No. 158,521; Sept. 5.
Polish, Furniture. L. E. Scott. No. 158,533; Sept. 5.
Pop 'corn, Shelled. Albert Dickinson Company. No. 22,343; renewed Jan. 17, 1923.
Porcelain insulating devices. Square D Company. No. 158,544; Sept. 5.
Preparation for treatment of ulcerous wounds. F. M. de Morales. No. 158,425; Sept. 5.
Preparation for use in the treatment of foot troubles. Scholl Manufacturing Company. Nos. 158,584–5; Sept. 5.
Printing presses, Electric heaters for. R. Nitch. No. 158,509; Sept. 5.
Putty, paints, and varnishes. Société Anonyme des Anciens Etablissements Muylle-Facon. No. 158,542; Sept. 5.
Radio receiving apparatus. Morse Manufacturing Company. No. 158,498; Sept. 5.
Radio receiving sets. Acme Apparatus Company. No. 158,372; Sept. 5.
Radio telephone and telegraph transmitters and receivers, etc. Westinghouse Electric & Manufacturing Company. No. 158,568; Sept. 5.
Razors, Safety. J. L. White. No. 158,527; Sept. 5.
Reflectors for preventing glare for electric headlights. Way-Lite Reflector Company. No. 158,565; Sept. 5.
Relays, Overload. Brown & Pengilly. No. 158,394; Sept. 5.
Remedy, Restorative and constructive tonic. Nuradium Company. No. 158,512; Sept. 5.
Ribbons, Satin and velvet. Passavant & Co. No. 21,711; renewed Aug. 30, 1922.
Rouge, cold cream, lip sticks, toilet water, talcum powder, and perfume. Lournay, Inc. Nos. 158,481–4; Sept. 5.
Rouge, Face and lip. S. Markman. No. 158,492; Sept. 5.
Rubber soles and heels. Manhattan Rubber Mfg. Co. No. 158,501; Sept. 5.
Sadirons, branding and soldering irons, Electrical heating elements for. Dover Manufacturing Company. No. 158,424; Sept. 5.
Salad dressing, foods, and ingredients of foods. J. B. Smith. No. 158,541; Sept. 5.
Salt. Remington Salt Company. No. 158,583; Sept. 5.
Salt, Granular effervescent. Jads Salts Company. No. 158,467; Sept. 5.
Salve. J. A. Baker. No. 158,384; Sept. 5.
Salve. Heal-o Products Co. No. 158,454; Sept. 5.
Salve for piles, burns, sore throat, etc. M. Harris. No. 158,451; Sept. 5.
Shoes. Walter H. More Co. No. 158,502; Sept. 5.
Shoes. Morse and Burt Co. No. 158,505; Sept. 5.
Shoes, Leather. Martin and Martin. No. 158,500; Sept. 5.
Sirup, Table. American Hominy Company. No. 158,375; Sept. 5.
Sirups for soda fountains, Maltless beverage. Buss Syrup Co. No. 158,395; Sept. 5.
Soap, Laundry. Benjamin Brooke & Company. No. 21,676; renewed Aug. 23, 1922.
Spark-plug extension. H. and A. Accessories. No. 158,450; Sept. 5.
Spark plugs. Patten Manufacturing Company. No. 158,515; Sept. 5.
Spark plugs and parts thereof. Champion Spark Plug Company. No. 158,402; Sept. 5.
Stoves, ranges, and furnaces. Co-Operative Foundry Company. No. 22,052; renewed Nov. 22, 1922.
Syringes. H. K. Mulford Company. No. 158,499; Sept. 5.
Tablets for treatment of anemia, loss of appetite, and as a general tonic. Raisin Products Co. of America. No. 158,522; Sept. 5.
Tape, Bias. R. Ferguson. No. 158,435; Sept. 5.
Tea. Paxton & Gallagher. Nos. 21,267–8; renewed June 7, 1922.
Tea. Paxton & Gallagher. No. 21,847; renewed Oct. 4, 1922.
Tea. Paxton & Gallagher. No. 21,941; renewed Nov. 8, 1922.
Telephone and radio receiving sets. Magnavox Company. Nos. 158,488–90; Sept. 5.
Tires, Puncture-healing composition for pneumatic. A. Grant. No. 158,446; Sept. 5.
Toilet preparations, Certain. J. L. Blades. No. 158,390; Sept. 5.
Toothbrushes. Florence Manufacturing Company. No. 158,436; Sept. 5.
Toothbrushes. United Drug Company. Nos. 158,553–4; Sept. 5.
Toy animals, toy balloons, etc. H. R. Colwell. No. 158,415; Sept. 5.
Toys, Certain. Art Metal Toy Company. No. 158,379; Sept. 5.
Traffic markers, Illuminated. Electrical & Specialty Supply Co. No. 158,431; Sept. 5.
Traffic signals, Electrically-operated. D-Rex-U Safety Signal Company. No. 158,427; Sept. 5.
Vacuum cleaners, Electric. Birtman Electric Company. No. 158,388; Sept. 5.
Varnish. William Zinsser & Company. Nos. 158,570–1; Sept. 5.
Varnishes. Berry Brothers. No. 158,386; Sept. 5.
Velocipedes. O. W. Siebert. No. 158,539; Sept. 5.
Vermifuge. N. and H. Company. No. 158,507; Sept. 5.
Washboilers. Sargoy Bros. No. 158,528; Sept. 5.
Washing machines, Electrically-operated textile-fabric-. Cadillac Washing Machine Co. No. 158,396; Sept. 5.
Watchcases and watchcase guards. North American Watch Company. No. 158,511; Sept. 5.
Watches. P. Forbriger. No. 158,438; Sept. 5.
Watches. I. Press & Sons. No. 158,519; Sept. 5.
Watches. Stein & Eilbogen Company. No. 158,547; Sept. 5.
Watches. M. A. Zolla. No. 158,572; Sept. 5.
Watches and clocks. Robt. H. Ingersoll & Bro. Nos. 158,461–2; Sept. 5.
Watches and watch movements. Kats & Ogush, Inc. No. 158,470; Sept. 5.
Watches, watch movements, watchcases, and parts thereof. American-Swiss Watch Co. No. 158,377; Sept. 5.
Water and ginger ale, Carbonated and natural mineral. Bethesda Mineral Spring Company. No. 22,405; renewed Jan. 31, 1923.
Woodwork finish, Interior wall. Alinall Manufacturing Company. No. 158,374; Sept. 5.
Woolen and silk fabrics, Chemical for testing. O. C. Mack. No. 158,581; Sept. 5.
Wringers. American Wringer Company. Nos. 22,224–6; renewed Dec. 20, 1922.

ALPHABETICAL LIST OF LABELS.

"Abbate's Pastry Wafer Chocolate Coated." (For Wafers and Chips of Pastry or Candy and Which are Coated with Chocolate or Similar Edible Substance.) S. Abbate. No. 24,994; Sept. 5.
"Absorbine, Jr. The Antiseptic Liniment." (For Absorbine, Jr. Liniment.) W. F. Young, Inc. No. 25,026; Sept. 5.
"Amami Bath Powder." (For Powder.) Pritchard & Constance, Inc. No. 25,021; Sept. 5.
"Bambino Brand." (For Tin Cans Containing Tomato Paste.) Atlantic Canning Company. No. 24,986; Sept. 5.
"Bon Ton." (For Bread.) A. Kohn. No. 25,017; Sept. 5.
"Brehme's Chocolate Pudding." (For a Preparation for Making Chocolate Pudding.) F. Brehme. No. 24,992; Sept. 5.
"Bronze Ink Varnish." (For Bronze Ink Varnish and Gold Ink Powder.) A. Chambley. No. 24,993; Sept. 5.
"Camilla Hair Net." (For Hair Nets.) S. Glemby, Inc. No. 24,998; Sept. 5.
"Challaine." (For Textile Fabrics.) Louis Walther Manufacturing Company. No. 25,023; Sept. 5.
"Chocolates." (For Candy.) Robert Gair Company. No. 24,995; Sept. 5.
"Fyr-Pruf." (For Packages Containing Stove and Nickel Polish.) American Ammone Company. No. 24,985; Sept. 5.
"Grape-Ade." (For Grape-Flavored Sirup.) L. M. Hirschler. No. 25,009; Sept. 5.
"Hard Candies." (For Candy.) Robert Gair Company. No. 24,996; Sept. 5.
"Hi-Glo." (For a Polish for Hardwood Floors, White Woodwork, Furniture, Pianos, Oil Paintings, Automobiles.) Universal Products Co. No. 25,022; Sept. 5.
"Jean Double Strand Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 25,002; Sept. 5.
"Jevne's." (For Chocolates.) H. Jevne Co. Nos. 25,011–13; Sept. 5.
"Kellogg's Shredded Whole Wheat Biscuit." (For a Food Specifically Known as Kellogg's Shredded Whole-Wheat Biscuit.) Kellogg Toasted Corn Flake Co. No. 25,015; Sept. 5.
"Knoll Gardens Products." (For Garden Products.) A. D. Beck. No. 24,987; Sept. 5.
"Koffee-O." (For a Cereal Food Drink.) Koffee-O Cereal Co. No. 25,016; Sept. 5.
"Linen Torchon Fabric Finish." (For Boxes of Stationery, Writing Tablets, Pound Papers, and Envelopes.) White & Wyckoff Mfg. Co. No. 25,025; Sept. 5.
"Lucky 13." (For Containers of Medicine Used as a Bowel Regulator.) R. D. White. No. 25,024; Sept. 5.
"Mila." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. Glemby, Inc. No. 24,997; Sept. 5.
"Moore's Single Strand Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 25,005; Sept. 5.
"Pain's Saluting The Flag." (For Fireworks, and More Particularly on Boxes and Wrapper in Which Said Fireworks are Packed.) H. J. Pain. No. 25,020; Sept. 5.
"Peg O' Me Heart." (For a Game of Solitaire.) L. Blatz. No. 24,989; Sept. 5.
"Pink Lady Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 25,003; Sept. 5.
"Pyrolac Pyorrhea Remedy." (For Tooth Paste.) Marson Medicine Co. No. 25,018; Sept. 5.
"Red Devil Rat and Mouse Embalmer." (For Rat Poison.) T. A. Hargrave. No. 25,008; Sept. 5.
"Regina." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. Glemby, Inc. No. 25,001; Sept. 5.
"Ruxton Silk Tissue." (For Toilet Paper.) B. F. Bond Paper Co. No. 24,991; Sept. 5.
"Savoly K Y N." (For Nail Polish.) Hydrox Chemical Co. of Illinois. No. 25,010; Sept. 5.
"Sophia." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. Glemby, Inc. Nos. 24,999–25,000; Sept. 5.
"Southern Silk Tissue." (For Toilet Paper.) B. F. Bond Paper Co. No. 24,990; Sept. 5.
"South Dakota Seal." (For Cigars.) J. M. Goodrich. No. 25,007; Sept. 5.
"Snowflake Pop Corn." (For Pop-Corn Bags.) Continental Paper & Bag Mills. No. 24,994; Sept. 5.
"The K R Pure Malt Extract." (For Cans Containing Pure Malt Extracts.) S. Katz. No. 25,014; Sept. 5.
"The Symphony Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 25,006; Sept. 5.
"The Tulip Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 25,004; Sept. 5.
"Wainwright Pistons." (For Pistons.) McQuay-Norris Mfg. Co. of Indiana. No. 25,019; Sept. 5.
"Wild Wave Chocolates." (For Candies.) Blanke-Wenneker Candy Co. No. 24,988; Sept. 5.

ALPHABETICAL LIST OF PRINTS.

"Are you giving your hair the right treatment?" (For Advertising Purposes for Palmolive Shampoo.) Palmolive Company. No. 6,302; Sept. 5.
"Ink-Eau Indelible Duplicating Pencil." (For Advertising Purposes for Indelible Pencils.) American Lead Pencil Company. No. 6,293; Sept. 5.
"Repair Tool Instruction Chart for Car, Truck and Tractor." (For Advertising Purposes for Tools to be Used in Connection with the Various Parts of an Automobile and for Instruction to the Parties Using Such Tools to Save Time and Secure Accuracy.) No. 6,300; Sept. 5.
"Rouzette." (For Advertising Purposes for a Game.) Rouzette Company. No. 6,303; Sept. 5.
"'Say Buick'." (For Advertising Purposes for Automobiles. A. E. Thompson. No. 6,304; Sept. 5.
"Spuds." (For Advertising Purposes for a Candy Specialty.) Milwaukee Paper Box Company. No. 6,301; Sept. 5.
"'The Filling Station'." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,294; Sept. 5.
"The Plum Pudding." (For Advertising Purposes for Jell-O, a Desert Preparation.) Genesee Pure Food Company. No. 6,299; Sept. 5.
"The Value of Time." (For Advertising Purposes for Watches.) Elgin National Watch Company. Nos. 6,295–8; Sept. 5.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alloys, wire in coils, blanks, ingots, and rods. Metal. Seymour Manufacturing Company. Nos. 163,550–2; Sept. 5.
Anchovy essence, coffee essence, cheese, canned fruits, etc. Cockatoo Preserves Limited. No. 120,909; Sept. 5.
Automobile tops and curtains. Buob and Scheu. No. 124,640; Sept. 5.
Banks and safes, Small portable savings. Stronghart Company. No. 129,480; Sept. 5.
Bearing, type, and white metals, solders, and white-metal alloys. Connecticut Metal & Chemical Co. No. 153,537; Sept. 5.
Bearings, Ball. R. I. V. Co. No. 161,383; Sept. 5.
Belts for driving machinery, Leather. Jewell Belting Company. No. 156,450; Sept. 5.
Belts, Sanitary. H. & M. M'f'g. Company. No. 156,630; Sept. 5.
Beverage sold as a soft drink. Oertel Co. No. 165,407; Sept. 5.
Beverage sold as soft drink and sirups used in making same. Los Angeles Ice & Cold Storage Co. No. 167,405; Sept. 5.
Beverage sold as soft drink and sirup for making same. G. M. Causey. No. 165,438; Sept. 5.
Beverages sold as soft drinks and sirups for making the same. Cherry Blossom Mfg. Co. Nos. 159,924–5; Sept. 5.
Beverages sold as soft drinks and sirups for making same. Cherry Blossom Mfg. Co. Nos. 159,929–31; Sept. 5.
Beverages sold as soft drinks and sirups for making same. Cherry Blossom Mfg. Co. Nos. 159,933–4; Sept. 5.
Beverages, sold as soft drinks and sirups for making the same. Cherry Blossom Mfg. Co. No. 159,938; Sept. 5.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Beverages, sold as soft drinks and sirups for making same. Cherry Blossom Mfg. Co. Nos. 159,940–2; Sept. 5.
Beverages, sold as soft drinks and sirups for making same. Cherry Blossom Mfg. Co. No. 159,944; Sept. 5.
Beverages sold as soft drinks and sirups for making same. Cherry Blossom Mfg. Co. No. 159,946; Sept. 5.
Beverages sold as soft drinks and sirups for making same. Cherry Blossom Mfg. Co. Nos. 159,949–50; Sept. 5.
Beverages sold as soft drinks and sirups for making same. R. C. Dillmore. No. 166,352; Sept. 5.
Beverages sold as soft drinks and sirups for making same. Mountvale Company. No. 167,185; Sept. 5.
Blank business forms for receiving indicia, and memorandum pads. W. S. Ferdon. No. 164,241; Sept. 5.
Blotter blocks or pads. Tennessee Fibre Co. No. 131,675; Sept. 5.
Budget system, Loose-leaf. Elikop System Inc. No. 161,306; Sept. 5.
Candles. Will & Baumer Candle Co. No. 151,737; Sept. 5.
Cements. F. L. Trickey. Nos. 164–132–6; Sept. 5.
Cements, Adhesive, waterproof adhesive, and other. E. I. du Pont de Nemours and Company. No. 167,284; Sept. 5.
Chains of base metal, cross and tire chains. United States Chain & Forging Co. No. 163,656; Sept. 5.
Cigars. J. Bauhofer. No. 164,155; Sept. 5.
Cigars. P. U. Benjamin & Co. No. 164,097; Sept. 5.
Clothing, Men's and young men's. Herman Wile & Co. No. 160,103; Sept. 5.
Cookers, Ham. F. E. Hoddersen-Balling. No. 162,110; Sept. 5.
Cotton goods in the piece. Hope Company. No. 149,230; Sept. 5.
Desk pads, Calendar. Clark & Leonard. No. 164,492; Sept. 5.
Dolls. George Borgfeldt & Co. No. 153,280; Sept. 5.
Dolls, dolls' clothing and bedding. M. B. Dickinson. No. 163,971; Sept. 5.
Dresses. Sunny Maid Dress Company. No. 160,033; Sept. 5.
Dyes. Monroe Drug Co. No. 163,407; Sept. 5.
Engines, Automatic fuel-feed regulators for internal-combustion. Auto Electric Air Feed, Inc. No. 161,955; Sept. 5.
Feet warmers. A. W. Field. No. 163,926; Sept. 5.
Files, Letter. Eberwein & Zahrndt. No. 164,036; Sept. 5.
Fishing lines, Japan-silk. Cortland Line Co. No. 164,389; Sept. 5.
Floats for use with float valves, Chambered. Ayling & Reichert Co. No. 161,716; Sept. 5.
Fumigating, spraying, and dipping preparations. American Nicotine Company. No. 161,293; Sept. 5.
Gloves, Golf. Holmac, Inc. No. 160,350; Sept. 5.
Glues, paste, and sealing wax. W. Zinsser & Company. No. 164,849; Sept. 5.
Grates and stoves, Coal, coke, wood, gas, and oil burning. Edwin A. Jackson & Bro. No. 159,232; Sept. 5.
Guns and parts thereof, Grease and oil. R. L. Freudenberger. No. 160,054; Sept. 5.
Hair dressings and tonics. Stil-Daniels. No. 163,192; Sept. 5.
Hair nets. Paristyle Novelty Co. No. 158,436; Sept. 5.
Hair nets, nettings, veilings, and veils. Gottschalk, Steinberg & Co. No. 160,286; Sept. 5.
Handkerchiefs. G. W. Sterling and Co. No. 155,937; Sept. 5.
Heaters and furnaces, Warm-air. Success Heater and Manufacturing Company. No. 150,037; Sept. 5.
Heaters and stoves, Gas. Hartman-Spreng Co. No. 163,521; Sept. 5.
Hosiery. Pennsylvania Hosiery Mills. No. 160,363; Sept. 5.
Hosiery, knit goods, gloves, caps, skirts, etc. Billstein-Feierman Co. No. 157,655; Sept. 5.
Hot-water heaters, Auxiliary. T. J. Robinson. No. 146,663; Sept. 5.
Illustrated boxes for children for educational and amusement purposes. Happiwork. No. 166,233; Sept. 5.
Insecticides, fungicides, and disinfectants. Eastbay Chemical Company. No. 129,704; Sept. 5.
Keys. B. Urich. No. 138,524; Sept. 5.
Kitchen and household tools or utensils. A. & J. Manufacturing Co. No. 158,743; Sept. 5.
Knitted coats and sweaters. Rugby Knitting Mills. No. 160,083; Sept. 5.
Knives, forks, parers, and cleavers. Jennings Manufacturing Company. No. 159,154; Sept. 5.
Knives, straight trimmers, shears, scissors, etc. Alfred Field & Co. No. 157,609; Sept. 5.
Lamps and oil stoves, Oil and portable gas. Pittsburgh Lamp, Brass & Glass Company. No. 122,185; Sept. 5.
Leather, Sole. Wilder & Company. No. 126,085; Sept. 5.
Malt extracts. Henning Wennersten Incorporated. No. 164,734; Sept. 5.
Medicinal preparations for treatment of catarrhal troubles. A. R. Theodosio. No. 159,435; Sept. 5.
Medicine for use in treatment of rheumatism, kidney, liver, and stomach trouble, etc. M. Ulbs. No. 163,481; Sept. 5.
Metal polish. Borsum Bros. No. 137,512; Sept. 5.
Mineral-spring water. Mineral Rock Springs, Inc. No. 167,528; Sept. 5.
Mops. Tribble Cordage Mills, Inc. No. 158,267; Sept. 5.
Mucilage, paste, glue, and sealing wax. Guild Products Corporation. No. 165,547; Sept. 5.
Newspapers. Statesman Printing Company, The. No. 165,244; Sept. 5.
Newspapers, Daily (including Sunday). Nevada State Journal Publishing Co. No. 164,938; Sept. 5.
Oils and gasoline, Illuminating. Red "C" Oil Mfg. Co. No. 138,957; Sept. 5.
Oils, Lubricating. Southern Hardware & Supply Co. No. 148,458; Sept. 5.
Ointment, Antiseptic or prophylactic. B. L. Gorton. No. 138,047; Sept. 5.
Packings, Asbestos engine. Beldam Asbestos Company Limited. No. 162,660; Sept. 5.
Paint, varnish, and paint enamel. Argus Manufacturing Company. No. 158,813; Sept. 5.
Paper and paper towels, Toilet. J. Wyle. No. 163,360; Sept. 5.
Paper, Bond. J. J. Murphy Paper Co. No. 163,529; Sept. 5.
Paper, Newsprint. Tidewater Paper Mills Company. No. 165,249; Sept. 5.
Paper, paper towels, and napkins, Toilet. George Paper Corporation. No. 162,404; Sept. 5.
Paper, pencils, pens, blank books, bill files, etc., Writing and wrapping. W. H. Johnson. No. 162,931; Sept. 5.
Paper-supporting pads for writing purposes. Sainberg & Co. No. 160,641; Sept. 5.
Paper, Tissue. Rose & Frank Co. No. 162,580; Sept. 5.
Paper, Toilet. White-Washburne Company. Nos. 165,739–41; Sept. 5.
Paper, Writing. Geo. D. Barnard Stationery Company. No. 165,653; Sept. 5.
Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 163,810; Sept. 5.
Papers and envelopes, Correspondence. Geo. W. Millar & Co. No. 165,877; Sept. 5.
Papers, Bond. Whiting-Plover Paper Co. No. 160,038; Sept. 5.
Papers, Ledger and bond. Gilbert Paper Co. No. 162,813; Sept. 5.
Papers, papeteries, cards, tablets, and pads. Highland Manufacturing Company. Nos. 125,501–2; Sept. 5.
Papers, Writing and ledger. Woela Bros. No. 163,485; Sept. 5.
Paving mixture. D. A. Casey. No. 160,394; Sept. 5.
Pencils, Lead. Joseph Dixon Crucible Company. No. 150,223; Sept. 5.
Petroleum jelly for medicinal and surgical purposes. Union Petroleum Company. No. 159,438; Sept. 5.
Piston rings. J. R. Davis. No. 164,028; Sept. 5.
Piston rings, Metallic. Foster, Merriam & Company. No. 162,107; Sept. 5.
Polish for automobiles, etc., and cleaner and polish for woodwork, etc. A. H. Waterman. No. 150,838; Sept. 5.
Preparations for the extirpation and killing of vermin, plant pests, and weeds, disinfectants, etc., Chemical. Chemische Werke vorm. H. & E. Albert. No. 153,585; Sept. 5.
Publications, Monthly. Chocolate Products Company. No. 164,868; Sept. 5.
Ranges, House-heating kitchen. Zimmerman Stove Heater Corp. No. 163,956; Sept. 5.
Razors. Strutz & Ciottu Co. No. 160,440; Sept. 5.
Rivets. Edwin B. Stimpson Company. No. 147,813; Sept. 5.
Rubber heels. P. Altruda. No. 162,793; Sept. 5.
Rust solvent. H. G. Wasson. No. 155,945; Sept. 5.
Saws. Henry Disston & Sons, Incorporated. No. 160,190; Sept. 5.
Shades, Supporting, guiding, and other fixtures and appliances for window. Hough Shade Corporation. No. 159,702; Sept. 5.
Shoes, Children's. A. I. Namm & Son, Inc. No. 162,433; Sept. 5.
Shoes, Leather. Alden Walker & Wilde Incorporated. No. 159,643; Sept. 5.
Signals, Direction. E. O. Lightner. No. 162,021; Sept. 5.
Silk goods in the piece. J. A. Migel, Inc. No. 165,691; Sept. 5.
Sirup, Malt. A. P. Dieman. No. 149,322; Sept. 5.
Skates, Ice. Alfred Johnson Skate Company. No. 167,355; Sept. 5.
Soap, tumbler, and other holders, grab rails, shelves, etc. Fairfacts Company. No. 157,365; Sept. 5.
Solder. Great Western Smelting & Refining Company. No. 155,493; Sept. 5.
Stoves, Coal-burning. R. Russell and Sons Limited. No. 164,197; Sept. 5.
Stoves, Oil-lamp. Consolidated Iron-Steel Manufacturing Company. Nos. 161,299–300; Sept. 5.
Suits of textile material, Union. A. Rifkin & Company. No. 160,260; Sept. 5.
Tablets containing vitamines, Medicinal. J. Donnelly. No. 147,956; Sept. 5.
Tape-serving device. American Nonseal Works, Inc. No. 161,104; Sept. 5.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tires and inner tubes, Patches for fabric. W. G. Hennenhofer. No. 117,379; Sept. 5.
Tires and inner tubes, Resilient vehicle. Oldfield Tire Company. No. 163,645; Sept. 5.
Tires, Rubber. Fisk Rubber Company. No. 163,676; Sept. 5.
Tobacco and cigars, Paper containers for. National Paper Can Company. No. 148,161; Sept. 5.
Toys. Bing Werke vorm. Gebrüder Bing A.-G. No. 141,057; Sept. 5.
Toys—namely, doll wagons, teeter toys, etc. C. J. Kern. No. 139,892; Sept. 5.
Trays, crumb and sink scrapers, Crumb. Fuller Brush Company. No. 162,108; Sept. 5.
Trunks, Hartmann Trunk Company. No. 159,584; Sept. 5.
Umbrella and parasol ribs. S. W. Evans & Son. No. 164,406; Sept. 5.
Valves, cast-iron bends and drum traps, etc. Oil-regulated flush. Stringer Bros. Co. No. 162,065; Sept. 5.
Vehicle tops, curtains for vehicles, etc., Re-covers for. Crawford Manufacturing Co. No. 143,851; Sept. 5.
Water heaters, Gas. Bastian-Morley Co. No. 153,968; Sept. 5.
Water, Mineral and carbonated. C. T. Hagan. No. 167,400; Sept. 5.
Waterproof cement. W. J. McKenzie. No. 158,631; Sept. 5.
Wire for baling, bundling, and strapping, barbed wire, etc. American Steel & Wire Company of New Jersey. No. 144,495; Sept. 5.
Wrenches, Pipe, monkey, automobile, and bicycle. F. W. Macke & Co. No. 161,368; Sept. 5.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 5, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 4: 1,428,498
33: 1,427,884
2— 70: 1,428,454
106: 1,428,453
144: 1,428,504
4— 35: 1,428,228
39: 1,427,809
5— 12: 1,428,462
9— 20: 1,428,151
10— 49: 1,427,845
12— 18: 1,428,261
33: 1,427,778
36: 1,427,940
46: R. 15,448
128.2: 1,428,423
15— 146: 1,428,281
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16— 103: 1,428,023
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11: 1,427,902
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10: 1,427,968
17: 1,428,169
26: 1,427,921
1,428,457
32: 1,427,943
109— 2: 1,428,340
110— 98: 1,428,128
112— 21: 1,428,153
80: 1,428,397
113— 11: 1,427,996
33: 1,428,427
105: 1,427,770
116: 1,428,195
114— 16: 1,428,218
1,428,335
16.7: 1,428,012
68: 1,428,461
116— 33: 1,428,124
1,428,307
36: 1,428,104
43: 1,428,045
116— 46: 1,428,136
51: 1,428,260
52: 1,428,443
85: 1,428,189
119— 138: 1,428,038
120— 10: 1,428,077
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19: 1,427,985
1,428,188
42: 1,428,417
46: 1,428,333
47: 1,428,079
121— 116: 1,427,840
1,427,841
120: 1,428,464
157: 1,427,767
123— 48: 1,428,426
50: 1,428,322
52: 1,428,412
58: R. 15,442
90: 1,428,177
117: 1,428,200
169: 1,428,451
195: 1,427,984
126— 38: 1,428,113
67: 1,428,187
102: 1,428,047
109: 1,428,488
271.1: 1,428,442
292: 1,427,868
314: 1,428,294
127— 10: 1,428,217
128— 165: 1,428,465
166: R. 15,446
335: 1,428,495
129— 1: 1,428,377
16.7: 1,428,298
130— 17: 1,428,093
131— 12: 1,427,781
1,428,446
51: 1,427,838
132— 92: 1,427,857
134— 1: 1,428,096
16: 1,428,258
26: 1,428,120
39: 1,428,085
44: 1,428,086
1,428,272
51: 1,428,152
56: 1,428,273
135— 14: 1,428,343
137— 68: 1,248,375
103: 1,427,987
139: 1,427,819
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139— 46: 1,428,445
48: 1,428,406
1,428,409
140— 71: 1,427,962
141— 7: 1,428,491
143— 68: 1,428,208
163: 1,428,268
144— 93: 1,427,805
242: 1,428,036
145— 2: 1,428,287
146— 3: 1,427,898
14: 1,428,125
148— 6: 1,428,087
1,428,170
8: 1,428,084
23: 1,428,088
149— 17: 1,427,806
150— 1,5: 1,428,330
151— 36: 1,427,946
53: 1,427,797
152— 10: 1,427,967
16: 1,428,467
21: 1,428,241
23: 1,428,452
28: 1,428,034
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33: 1,427,813
36: 1,427,995
153— 56: 1,428,001
78: 1,428,387
154— 1: 1,427,971
12: 1,428,508
14: 1,428,040
1,428,419
45.9: 1,427,939
155— 36.5: 1,428,039
39: 1,427,795
74: 1,427,958
85: 1,428,018
194: 1,427,861
157— 1: 1,428,052
6: 1,428,440
158— 16: 1,428,280
74: 1,428,129
77: 1,427,910
86: 1,428,212
99: 1,428,146
118: 1,428,400
161— 8: 1,428,255
164— 32: 1,428,174
47: 1,428,355
48: 1,428,420
113: 1,428,277
166— 16: 1,427,811
20: 1,427,944
168— 19: 1,428,167
169— 24: 1,427,899
171— 209: 1,428,063
324: 1,428,342
172— 126: 1,428,489
173— 314: 1,427,953
174— 87: 1,427,908
175— 361: 1,427,783
176— 14: 1,428,424
31: 1,427,883
36: 1,427,870
51: 1,428,510
177— 7: 1,428,237
346: 1,428,499
178— 63: 1,428,156
89: 1,428,033
179— 15: 1,428,155
41: 1,427,923
188: 1,428,305
180— 17: 1,428,394
19: 1,428,231
26: 1,428,053
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83: 1,427,916
184— 11: 1,427,768
103: 1,428,017
187— 97: 1,428,060
188— 31: 1,428,236
77: 1,427,801
1,427,993
101: 1,428,225
205: 1,428,249
213: 1,428,192
1,428,214
189— 34: 1,428,484
82: 1,428,230
90: 1,427,880
190— 11: 1,428,092
19: 1,428,313
49: 1,428,008
191— 1: 1,428,133
192— 17: 1,428,410
116: 1,428,416
194— 3: 1,428,244
195— 6: 1,427,888
13: 1,427,886
1,427,887
15: 1,427,885
196— 1: 1,428,204
8: 1,428,159
21: 1,428,458
25: 1,428,311
1,428,312
1,428,338
1,428,339
197— 22: 1,428,117
26: 1,428,130
63: 1,428,215
83: 1,428,325

197— 98: 1,428,213
126: 1,428,265
127: 1,428,193
139: 1,427,909
177: 1,428,140
198— 10: 1,428,472
11: 1,428,240
56: 1,427,860
84: 1,427,869
92: 1,427,980
154: 1,428,184
179: 1,428,485
191: 1,428,234
221: 1,428,290
199— 58: 1,428,459
200— 19: 1,428,134
36: 1,428,186
43: 1,428,413
59: 1,428,380
83: 1,428,463
130: 1,427,895
204— 1: 1,427,876
1,427,877
1,428,049
1,428,050
5: 1,427,875
19: 1,427,919
24: 1,428,178
1,428,379
29: 1,427,970
31: 1,428,323
63: 1,427,916
1,428,057
1,428,061
64: 1,427,814
206— 1: 1,429,286
5: 1,427,947
9: 1,428,026
44: 1,428,226
208— 106: 1,428,496
210— 76: 1,428,010
167: 1,428,205
168: 1,428,270
211— 8: 1,428,439
16: 1,428,183
22: 1,428,490
24: 1,428,058
1,428,223
212— 59: 1,428,314
70: 1,427,960
94: 1,427,949
102: 1,428,114
131: 1,428,091
213— 42: 1,427,942
59: 1,428,051
214— 1: 1,428,383
52: 1,428,005
65 5: 1,428,248
119: 1,428,160
215 6: 1,427,920
18: 1,428,479
65: 1,428,295
79: 1,428,297
216— 6: 1,427,871
217— 4: 1,428,320
11: 1,427,839
12: 1,428,016
20: 1,428,350
29: 1,428,019
56: 1,428,439
80: 1,427,907
219— 10: 1,428,282
19: 1,428,349
21: 1,428,062
25: 1,428,233
26: 1,428,227
38: 1,428,071
39: 1,428,157
220— 4: 1,428,070
32: 1,427,810
44: 1,428,399
73: 1,427,879
80: 1,428,337
86: 1,428,161
96: 1,428,043
223— 19: 1,428,274
224— 25: 1,428,285
20: 1,428,027
226— 127: 1,427,965
227— 8: 1,428,369
228— 23: 1,428,370
229— 14: 1,427,828
74: 1,428,494
87: 1,427,977
92.7: 1,428,503
230— 10: 1,427,827
11: 1,427,859
24: 1,427,835
27: 1,428,222
1,428,473
30: 1,427,823
34: 1,428,402
235— 67: 1,428,095
144: 1,428,407
236— 58: 1,428,254
237— 12.3: 1,428,299
78: 1,428,150
238— 51: 1,428,078
117: 1,427,980
195: 1,427,948
235: 1,428,107
304: 1,428,375
240— 7: 1,428,108
41: R.15,449
41: 1,428,109
1,428,110
61: 1,428,353
240— 61: 1,428,436
62: 1,428,235
241— 1: 1,427,980
242— 71: 1,427,954
1,428,395
113: 1,428,119
243— 39: 1,428,279
244— 2: 1,428,163
5: 1,427,998
19: 1,428,086
21: 1,427,771
1,427,772
1,428,013
1,428,136
25: 1,427,830
30: 1,428,341
31: 1,427,799
1,427,872
1,428,143
246— 33: 1,427,882
66: 1,428,511
128: 1,427,881
247— 2: 1,427,779
15: 1,428,374
248— 20: 1,428,500
249— 59: 1,428,253
250— 2: 1,428,507
6: 1,427,832
11: 1,427,833
251— 34: 1,428,145
144: 1,427,837
159: 1,428,144
253— 194: 1,427,974
254— 29: 1,427,964
67: 1,427,952
79: 1,428,080
193: 1,428,118
255— 61: 1,428,122
1,428,137
257— 25: 1,428,433
131: 1,428,491
132: 1,428,179
259— 23: 1,428,315
104: 1,428,438
123: 1,427,867
144: 1,427,986
260— 47: 1,427,883
261— 23: 1,427,792
262— 30: 1,428,505
263— 45: 1,427,862
264— 16: 1,427,847
265— 11: 1,427,922
54: 1,428,165
267— 5: 1,428,166
28: 1,428,306
54: 1,427,933
1,428,245
1,428,252
60: 1,427,992
268— 2: 1,428,003
270— 21: 1,427,905
47: 1,427,852
271— 16: 1,428,331
28: 1,428,149
1,428,334
277— 67: 1,427,854
279— 1: 1,427,785
2: 1,428,035
36: 1,428,669
51: 1,428,100
280— 33.6: R.15,443
42: 1,428,000
56: 1,428,004
57: 1,428,180
61: 1,428,506
164: 1,428,006
166: 1,428,080
179: 1,428,474
281— 2: 1,428,264
43: 1,428,102
282— 27: 1,428,266
283— 8: 1,428,278
66: 1,427,951
285— 164: 1,428,502
287— 53: 1,427,798
1,427,807
1,428,408
93: 1,428,366
103: 1,428,415
104: 1,427,924
108: 1,428,076
290— 36: R.15,444
292— 76: 1,427,774
172: 1,427,991
268: 1,428,447
274: 1,427,917
293— 55: 1,427,878
1,427,928
1,428,116
294— 43: 1,428,357
102: 1,428,094
296— 24: 1,428,239
28: 1,428,105
30: 1,427,894
95: 1,428,014
298— 17: 1,428,368
19: 1,428,293
299— 80: 1,428,365
121: 1,427,922
301— 11: 1,428,468
19: 1,427,927
31: 1,428,386
33: 1,428,496
35: 1,428,432
63: 1,427,926
126: 1,428,287
306— 12: 1,427,865

C

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF SEPTEMBER, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, Christopher R., Anderson, Ind. Furnace control mechanism. No. 1,428,516; Sept. 12.
Abell, William R., Marbury, Md. Brake. No. 1,428,673; Sept. 12.
Abercrombie, James R., Siloam Springs, Ark. Rim reducing and expanding implement. No. 1,428,674; Sept. 12.
Abrahams, Charles, Brooklyn, assignor to J. Abrahams, New York, N. Y. Depth or liquid-level gauge. No. 1,428,576; Sept. 12.
Abrahams, Jacob. (See Abrahams, Charles, assignor.)
Ackerman, Robert, assignor to Hudson Manufacturing Company, Minneapolis, Minn. Clamping device for drinking bowls. No. 1,428,577; Sept. 12.
Adams, Thomas O. (See Wise, W. J., and Adams.)
Aeolian Company, The. (See Head, Robert, assignor.)
Ahearn, Thomas, Ottawa, Ontario, Canada. Phonograph-needle buffer. No. 1,428,828; Sept. 12.
Ahern, Albert M., St. Louis, Mo. Jaw for animal traps. No. 1,428,512; Sept. 12.
Akimoff, Nicholas W., Wynnewood, Pa. Spring. No. 1,428,740; Sept. 12.
Aktiengesellschaft Brown, Boveri & Cie. (See Buchli, Jacob, assignor.)
Aldi, Angelo and J., Southington, Conn. Valve grinder. No. 1,428,871; Sept. 12.
Aldi, Joseph. (See Aldi, Angelo and J.)
Allen, David R., and J. Franek, Omaha, Nebr. Indicating device for theater seats. No. 1,429,057; Sept. 12.
Allen, H. A., Co. (See Metcalf, Alpha H., assignor.)
Allen, S. L., & Co. (See Warren, W. C., and Kier, assignors.)
Allington, William W. (See Williams, William M., assignor.)
Allison, Robert P., Baltimore, Md. Disk wheel. No. 1,428,741; Sept. 12.
Allison, Robert P., Richmond, Va. Disk wheel. No. 1,428,742; Sept. 12.
Alschausky, Josef F. S., Gautzsch, near Leipzig, Germany. Trombone. No. 1,428,675; Sept. 12.
Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Hitch device. No. 1,428,517; Sept. 12.
Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Yoke construction for rolling colters and the like. No. 1,428,518; Sept. 12.
American Brass Company, The. (See Coe, James R., assignor.)
American Electric Tool Company. (See Paulero, Louis, assignor.)
American Optical Company. (See Schumacher, Elmer L., assignor.)
American Shale Reduction Company. (See Hille, Adolph W., assignor.)
American Telephone and Telegraph Company. (See Harrison, William H., assignor.)
American Telephone and Telegraph Company. (See Toomey, John F., assignor.)
American Whaley Engine Company. (See Whaley, William B. S., assignor.)
American Zinc, Lead & Smelting Company. (See Wettengel, Charles A., assignor.)
Anderson, Gus G., Minmi, Ariz. Animal trap. No. 1,429,011; Sept. 12.
Anderson, Harry T., Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Ratchet device. No. 1,428,824; Sept. 12.
Anderson, Isaac, Oakland, Calif. Candy-dipping device. No. 1,428,872; Sept. 12.
Anderson, James, Paris, France. Device for transforming ice into snow. No. 1,428,829; Sept. 12.
Anderson, John A., Geneseo, Ill. Attachment for bearings. No. 1,428,513; Sept. 12.
Andrews Crane Corporation. (See Andrews, Donald S., assignor.)
Andrews, Donald S., assignor to Andrews Crane Corporation, Cleveland, Ohio. Hoisting and conveying device. No. 1,429,012; Sept. 12.
Andrews, Josiah S., Buffalo, N. Y. Vehicle jack. No. 1,428,519; Sept. 5.
Angerer, Victor, Ridley Park, assignor to William Wharton, Jr., & Company, Incorporated, Easton, Pa. Railway crossing. No. 1,428,514; Sept. 12.
Arnot, Eugene N., San Francisco, Calif. Shears. No. 1,428,830; Sept. 12.
Arteme, Thomas K., New York, assignor of one-half to J. P. Brakus, Locust Valley, N. Y. Profilograph. No. 1,428,520; Sept. 12.
Ashley, Frank M., New York, N. Y. Binding clip. No. 1,429,182; Sept. 12.
Athol Machine Company. (See Starrett, Laroy S., assignor.)
Augustin, Wilhelm, Berlin-Charlottenburg, assignor to Bing-Werke vormals Gebr. Bing Aktiengesellschaft, Nurnberg, Germany. Locking device for calculating machines. No. 1,428,831; Sept. 12.
Avera, Arch U., Florence, Ala. Furnace for oxidation of atmospheric nitrogen. No. 1,429,013; Sept. 12.
Bacon, Charles V., Mahwah, N. J. Recovering iron oxide and other products from spent iron sludge. No. 1,428,521; Sept. 12.
Baddeley, Benjamin F., assignor of forty-nine per cent to J. C. King, San Francisco, Calif. Paddle propeller. No. 1,428,873; Sept. 12.
Baker Food Products Company. (See Malekow, Philip, assignor.)
Ballman, Edwin C., assignor to S. A. Whitten, St. Louis, Mo. Electrical measuring instrument. No. 1,428,743; Sept. 12.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Means for preventing offset from freshly-printed sheets. No. 1,428,931; Sept. 12.
Bardon, Oliver H., Cincinnati, Ohio. Manually-operated switch stand. No. 1,428,874; Sept. 12.
Barlow, Peter, Rochester, Minn. Snow skate. No. 1,428,676; Sept. 12.
Barnard, Enoch A. (See Wilkinson, J. R., Barnard, and Booth.)
Barrett, Arthur M., Winnetka, Ill. Lifting truck. No. 1,428,522; Sept. 12.
Barrett, Arthur M., Winnetka, W. Childress, Oak Park, and F. Trott, Harvey, Ill., assignors to said Barrett. Lifting truck. No. 1,428,523; Sept. 12.
Barry, Elizabeth, Portland, Oreg. Doll. No. 1,428,677; Sept. 12.
Bastian-Blessing Company, The. (See Bastian, C. L., and Mathisen, assignors.)
Bastian, Charles L., and H. Mathisen, assignors to The Bastian-Blessing Company, Chicago, Ill. Dispensing valve. No. 1,428,744; Sept. 12.
Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,832; Sept. 12.
Bath, John, & Company. (See Bath, John, assignor.)
Bath, John, assignor to John Bath & Company, Worcester, Mass. Adjustable plug gauge. No. 1,429,183; Sept. 12.
Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Caster lock. No. 1,428,932; Sept. 12.
Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve-spindle-retaining device. No. 1,428,745; Sept. 12.
Beal, George Y., Choctaw, Okla. Steering-gear stabilizer. No. 1,428,515; Sept. 12.
Beal, Herman L., Brookline, Mass. Rubber heel. No. 1,428,524; Sept. 12.
Bean, John E., jr., Merrimac, Mass. Gas cock. No. 1,428,933; Sept. 12.
Beckett, Jacie, Columbus, Ohio. Fireplace. No. 1,429,184; Sept. 12.
Bee, William E., and W. E. Simpson, assignor to Palmer-Bee Company, Detroit, Mich. Trolley. No. 1,428,934; Sept. 12.
Beebe, Byron L., Wellington, Kans. Application of power. No. 1,429,122; Sept. 12.
Beiser, Charles W., Brooklyn, N. Y. Moistener for stamps, envelopes, tape, etc. No. 1,429,058; Sept. 12.
Bell, Louis, West Newton, assignor to E. N. Goding, trustee, Newton, Mass. Projection and distribution of light. No. 1,428,936; Sept. 12.
Bell, Louis, West Newton, Mass. Reflecting telescope. No. 1,428,935; Sept. 12.
Bellia, Pier G. (See Dughera, Annibale, assignor.)
Belloch, Isaac, New York, N. Y. Nonset automatic stop mechanism. No. 1,429,059; Sept. 12.
Bennett, Alan M. (See Caldwell, F. S., and Bennett.)

Bergman, William G., Toledo, Ohio. Gas and air reversing valve. No. 1,428,525; Sept. 12.
Berkeley, Laurence J., Milwaukee, Wis. Rail anchor. No. 1,428,578; Sept. 12.
Beyea, Frank H., Akron, Ohio. Manufacturing cable beads or grommets. No. 1,429,123; Sept. 12.
Beyea, Frank H., Akron, Ohio. Manufacturing cable beads or grommets. No. 1,429,124; Sept. 12.
Biehn, Hobart G. (See Neumeyer, Horace F., assignor.)
Bilger, Samuel B., Buckingham, Pa. Piano hoist. No. 1,428,875; Sept. 12.
Bindon, George H., Ottawa, Ontario, Canada. Electric cooker. No. 1,428,825; Sept. 12.
Bindschelder, Theodore S., assignor of one-half to A. B. Frederick, Detroit, Mich. Magnetic balance. No. 1,428,833; Sept. 12.
Bing-Werke, vormals Gebr. Bing Aktiengesellschaft. (See Augustin, Wilhelm, assignor.)
Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Load-supporting building tile. No. 1,428,623; Sept. 12.
Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster board. No. 1,428,624; Sept. 12.
Bishop, Thomas H., assignor to The Line-A-Time Mfg. Co., Inc., Rochester, N. Y. Book-holding copyholder. No. 1,428,937; Sept. 12.
Bishop, Thomas H., assignor to The Line-A-Time Co., Inc., Rochester, N. Y. Copyholder. No. 1,428,938; Sept. 12.
Bittel, Edward, Forest Park, Ill. Faucet. No. 1,428,826; Sept. 12.
Bjerre, Gravers J., Copenhagen, Denmark. Electric resistance for regulating the candlepower of electric incandescent lamps. No. 1,428,834; Sept. 12.
Blackburn, Edward E., assignor to Hoosier Stove Company, Marion, Ind. Stove door. No. 1,428,579; Sept. 12.
Blanchard, George O., Napoleonville, La. Head cover for internal-combustion engines. No. 1,429,014; Sept. 12.
Blaw-Knox Company. (See Garlinghouse, Leslie H., assignor.)
Bliss, Raymond D., et al. (See Finney, James J., assignor.)
Blunt, James G., Schenectady, N. Y. Handrail column. No. 1,428,746; Sept. 12.
Blythe, James. (See Nettle, W. E., Selby, Blythe, and Holman.)
Bobrick, Arthur L. (See Bobrick, Gabriel A. and A. L.) (Reissue.)
Bobrick, Gabriel A., Los Angeles, Calif., and A. L. Bobrick, New York, N. Y. Liquid dispenser. (Reissue.) No. 15,450; Sept. 12.
Bohan, Frank T., New Brunswick, N. J. Tire cover. No. 1,428,580; Sept. 12.
Bollinck, Arthur, Brussels, Belgium. Pump of variable capacity. No. 1,428,876; Sept. 12.
Bolser, George W., Cleveland, Ohio. Inner tube for tires. No. 1,429,015; Sept. 12.
Booth, Lionel E. (See Wilkinson, J. R., Barnard, and Booth.)
Borkman, Carl O., Victor, Colo. Wrench. No. 1,428,835; Sept. 12.
Börreson, Börre H., St. Paul, Minn. License tag for motor vehicles. No. 1,428,747; Sept. 12.
Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Knitted glove and making same. No. 1,428,939; Sept. 12.
Bowman, William B., assignor of one-half to G. Hoffman, Chicago, Ill. Clamp. No. 1,428,877; Sept. 12.
Bradley, Charles E., Montclair, N. J., and J. G. Coffin, Hempstead, N. Y., assignors to General Rubber Company. Process and apparatus for treating latex. No. 1,428,526; Sept. 12.
Bradley, Elmer E., Clinton, Iowa. Air nozzle for track sanders. (Reissue.) No. 15,451; Sept. 12.
Brantley, Lewis R., Marietta, Ga. Planter. No. 1,428,527; Sept. 12.
Brennan, Edward J., Chicago, Ill. Conveyer belt. No. 1,428,878; Sept. 12.
Brinker, Jesse E., and C. P. McNeil, assignors to Standard Oil Company, Whiting, Ind. Ornamented candle. No. 1,428,940; Sept. 12.
Brookby, Harry E., Evanston, assignor to United States Gypsum Company, Chicago, Ill. Composition wallboard and making the same. No. 1,428,827; Sept. 12.
Brososky, Frank, Haywood, assignor of one-half to A. Kubis, Moundsville, W. Va. Farm wagon. No. 1,428,748; Sept. 12.
Brown & Sharpe Manufacturing Company. (See Parker, John W., assignor.)
Brown, Alfred J., and G. I. Paulson, Brooklyn, N. Y. Nonresalable box. No. 1,429,185; Sept. 12.
Brown, E. W. (See Rote, Charles V., assignor.)
Brown, Harry M., New Kensington, Pa. Car coupling. No. 1,429,186; Sept. 12.
Brown, James H., New York, N. Y. Shell frame for eyeglasses. No. 1,428,749; Sept. 12.
Brown, John. (See Myer, B. W., and Brown.)
Bruce, Alfred W., New York, N. Y. Lateral-motion appliance for locomotive driving boxes. No. 1,428,625; Sept. 12.
Bruman, Otto F., Zurich-Enge, assignor to Festa A. G., Zurich, Switzerland. Water-heating faucet. No. 1,429,060; Sept. 12.
Bryan, George, Spokane, Wash. Scrubbing pail. No. 1,428,528; Sept. 5.
Bryant Electric Company, The. (See Thomas, George B., assignor.)
Buchli, Jacob, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Shaft coupling. No. 1,428,750; Sept. 12.
Buchsbaum, Samuel, Chicago, Ill. Clasp. No. 1,428,678; Sept. 12.
Buckeye Iron & Brass Works. (See Trace, Russell A., assignor.)
Buckley, Thomas F., Scranton, Pa. Spring-forming machine. No. 1,428,626; Sept. 12.
Buckwalter, Leon G. (See Hutchinson, Morton C., assignor.)
Bucyrus Company. (See Ferris, Walter, assignor.)
Bunker, Carey E., Oregon, Mo. Caster. No. 1,429,187; Sept. 12.
Burgess, Edward W. (See Smith, R. S., and Burgess.)
Burke Electric Company. Caldwell, F. S., and Bennett, assignors.)
Burke, Matt, West Duluth, Minn. Oiling device. No. 1,428,751; Sept. 12.
Burns, David E. assignor of one-half to H. J. McKinley, Grand Rapids, Mich. Road scraper. No. 1,429,125; Sept. 12.
Burtis, Warren H. (See Klein, R. A., Burtis, and Eyerly.)
Butler, James L., Akron, Ohio assignor to The B. F. Goodrich Company New York, N. Y. Method and apparatus for making tire casings. No. 1,428,752; Sept. 12.
Byrne, Thomas, jr., Chicago, Ill. Concrete mixer. No. 1,428,941; Sept. 12.
Caldwell, Francis S., Columbus, Ohio, and A. M. Bennett, Westfield, N. J., assignors, by mesne assignments, to Burke Electric Company. Electric welding. No. 1,428,529; Sept. 12.
Campbell, John, assignor of one-half to A. S. Dowdall, Minneapolis, Minn. Power-driven hair clipper. No. 1,428,836; Sept. 12.
Candee, Andrew H., Pittsburgh, and L. J. Hibbard, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Relay. No. 1,428,837; Sept. 12.
Cappel, Joseph, and C. R. Edwards, Peoria, Ill. Nut lock. No. 1,428,753; Sept. 12.
Carbide & Carbon Chemicals Corporation. (See Thompson, Harold E., assignor.)
Carlson, Carl A., Everett, assignor, by mesne assignments, to The Stafford Company, Readville, Boston, Mass. Weft feeler device for looms. No. 1,429,126; Sept. 12.
Carlson, Herman B. (See Rasmusen, L. S., and Carlson.)
Carr, James, Syracuse, N. Y. Tool chuck. No. 1,428,754; Sept. 12.
Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose ether solvent and composition. No. 1,429,188; Sept. 12.
Carter, George J., Bromborough, and L. G. McFarlane, Liverpool, England. Internal-combustion engine. No. 1,429,016; Sept. 12.
Cartmill, Holley, Spokane, Wash. Spark plug. No. 1,429,017; Sept. 12.
Case, Arthur E., assignor to Delta Electric Company, Marion, Ind. Electric lamp. No. 1,428,755; Sept. 12.
Case, J. I., Threshing Machine Company. (See Davies, David P., assignor.)
Casper, Albert. (See Nixon, Albion K., assignor.)
Cassidy, Gabriel J., Hastings, Minn. Sprayer nozzle. No. 1,428,530; Sept. 12.
Cassidy, George L., et al. (See Davis, Mortimer D., assignor.)
Caswell, Carl F., Coon Rapids, Iowa. Glass tongs. No. 1,428,679; Sept. 12.
Cavigelli, Emanuel, St. Margarethen, near Munchwilen, assignor to Firm of Schweiz Gesellschaft für Tullindustrie A.-G., Munchwilen, Switzerland. Plain-net loom. No. 1,428,756; Sept. 12.
Chambless, James, assignor of one-half to H. W. Crawford. Jaspar, Ala. Motion-picture apparatus. No. 1,428,531; Sept. 12.
Chapman, Winthrop M., Needham, Mass. Signal-controlling apparatus. No. 1,428,532; Sept. 12.
Chasse, Raphael, deceased, Middletown, N. Y.; R. J. Chasse, administrator. Rat trap. No. 1,429,189; Sept. 12.
Chasse, Russell J., administrator. (See Chasse, Raphael.)
Chemical Construction Company. (See Hechenbleikner, I., and Oliver, assignors.)
Chichester, F. I. (See Nordmark, Henry P., assignor.)
Childress, William. (See Barrett, A. M., Childress, and Trott.)
Cibulas, Stephen E., Bridgeport, Conn. Skylight construction. No. 1,429,018; Sept. 12.
Clark, Charles H., Easton, Me. Hoe. No. 1,428,680; Sept. 12.
Clark, Harry H. (See Schaumburger, L., and Clark.)
Clayton, James, Babbacombe, England, assignor to The Viscose Company, Marcus Hook, Pa. Apparatus for and method of manufacturing artificial silk. No. 1,429,127; Sept. 12.
Clemm, Hans, and C. Hangleiter, assignors to Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Recuperation of the sulphurous acid and heat from waste gases coming from boilers for cellulose. No. 1,429,128; Sept. 12.

Clifford, Oliver N., et al. (See Evans, Joseph E., assignor.)
Clymer, Reuben S., Quakertown, Pa. Automobile truck. No. 1,428,681; Sept. 12.
Coalwell, Charles B., assignor of one half to C. A. Mellinger, Pine Island, Minn. Damper. No. 1,429,190; Sept. 12.
Coate, William V., Greenville, Ohio. Bookholder. No. 1,428,737; Sept. 12.
Cock, Frederick D. (See Lodge, Edwin W., assignor.)
Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Apparatus for rolling metal. No. 1,429,061; Sept. 12.
Coffin, Joseph G. (See Bradley, C. E., and Coffin.)
Coffin, Vernon W. J., Toronto, Ontario, Canada. Putty gun. No. 1,429,019; Sept. 12.
Cohrs, Henry J., Jamaica, N. Y. Tire protector. No. 1,429,212; Sept. 12.
Coleman, Thomas E., assignor to Madison-Kipp Corporation, Madison, Wis. Lubricator. No. 1,429,191; Sept. 12.
Collner, A. B. (See Pillow, John R., assignor.)
Colson, Léon, Paris, France. Apparatus and method for the production of a gaseous mixture of $CH_4 + H$. No. 1,428,879; Sept. 12.
Combs, Rill K., Marion, Ohio. Refrigerator. No. 1,429,020; Sept. 12.
Consolidated American Fastener Companies. (See Normand, Henry S., assignor.)
Constantinesco, George, Weybridge, England. Means for lubricating internal-combustion engines. No. 1,428,682; Sept. 12.
Cook, Stanley S. (See Parsons, C. A., and Cook.)
Cooper, Isaiah C. G., Newcastle-upon-Tyne, England. Batten mould particularly for use in shipbuilding. No. 1,428,942; Sept. 12.
Cooper, Simon. (See Koppelman, M., and Cooper.)
Corn Products Refining Company. (See Merrill, Joseph J., assignor.)
Cornica, Martin V., Chicago, Ill. Circuit-interrupting mechanism. No. 1,429,062; Sept. 12.
Cory, Charles, & Son, Incorporated. (See Grierson, Paul S., assignor.)
Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
Cowles, Isa Belle, Syracuse, N. Y. Nursing-bottle-supporting frame. No. 1,428,758; Sept. 12.
Cox, Henry B., Cordele, Ga. Concrete-culvert form. No. 1,429,021; Sept. 12.
Crain, Harrison C., St. Louis, Mo. Hinge for folding beds. No. 1,428,759; Sept. 12.
Cranford, H. W. (See Chambless, James, assignor.)
Cresci, Anthony L., Vineland, N. J. Door. No. 1,429,063; Sept. 12.
Crowley, John C., Cleveland, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Process and apparatus for making sheet glass. (Reissue.) No. 15,452; Sept. 12.
Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Apparatus for and method of drawing sheet glass. No. 1,428,533; Sept. 12.
Cuish, Truman A., jr., Green Bay, Wis. Couch roll. No. 1,428,760; Sept. 12.
Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,428,762; Sept. 12.
Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Trunk circuit with instantaneous disconnect and recall. No. 1,428,761; Sept. 12.
Curtis, Arthur R., Cleveland, Ohio. Washer drive mechanism. No. 1,429,064; Sept. 12.
Curtiss, Charles E., Clinton, Wis. Wheel hoe. No. 1,428,581; Sept. 12.
Czerny, Ludwig. (See Springefeld, O., and Czerny.)
Daggett, William F., Chicago, Ill. Hub for loose pulleys, clutches, hanger bearings, and the like. No. 1,429,065; Sept. 12.
Dales, William R., Philadelphia, Pa. Tobacco pipe. No. 1,429,022; Sept. 12.
Dalton Adding Machine Company, The. (See Landsiedel, Harry, assignor.)
Damon, Chester R., et al. (See Legate, William A., assignor.)
Daniels, Abraham I. (See Oppman, Joseph, assignor.)
Davies, David P., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Sealing device for rotary structures. No. 1,428,943; Sept. 12.
Davis, Henry J., Niles, Ohio. Continuous rolling mill. No. 1,428,944; Sept. 12.
Davis, Howard H., Cleveland, Ohio. Efficiency indicator for explosion motors. No. 1,429,192; Sept. 12.
Davis, Mortimer D., assignor of one-half to G. L. Cassidy and J. J. Murray, Springfield, Mass. Hammer. No. 1,428,838; Sept. 12.
Davisson, Harry W., assignor of one-half to J. C. Patrick, Kansas City, Mo. Grain chute. No. 1,428,763; Sept. 12.
Dayton Engineering Laboratories Company, The. (See Hunt, John H., assignor.)
Dearden, Albert R. J., Jersey City, N. J. Heater. No. 1,429,193; Sept. 12.
Decktop, Charles J. (See Karge, Maxwell R., assignor.)
De Clamecy, Philippe, Boston, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Steel and iron alloy. No. 1,428,534; Sept. 12.
Delts, Frank W., Cleveland, Ohio. Quick-equalizing marker. No. 1,428,582; Sept. 12.
Delta Electric Company. (See Case, Arthur E., assignor.)
Demarc, Joseph, Kolze, Ill. Car truck. No. 1,428,764; Sept. 12.
De Mott, Benyew H., Millington, N. J. Soil-working implement. No. 1,428,880; Sept. 12.
Denne, George F., Chicago, Ill. Water cooler. No. 1,428,045; Sept. 12.
Dennis, Oliver C., Wilmette, Ill. Adjustable jack. No. 1,428,535; Sept. 12.
Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)
Detroit Torch & Manufacturing Company. (See Lindhorst, Frederick L., assignor.)
Deutsch, Frank J., assignor of one-half to E. Farkas, Cleveland, Ohio. Dust receptacle for vacuum cleaners. No. 1,428,583; Sept. 12.
Dickey, Cromwell B., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Manufacture of calcium arsenate. No. 1,428,946; Sept. 12.
Dickinson, Harry S., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tillage implement. No. 1,428,947; Sept. 12.
Dieter, William, Newark, N. J., assignor to Vittlea Development Corporation. Air flask for torpedoes. No. 1,429,023; Sept. 12.
Disbro, Roger W., Cleveland Heights, assignor to The W. S. Tyler Company, Cleveland, Ohio. Elevator-car construction. No. 1,429,194; Sept. 12.
Diss, Louis P., Ilion, N. Y. Escapement device for typewriting machines. No. 1,429,066; Sept. 12.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure for boilers. No. 1,428,536; Sept. 12.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure for boilers. No. 1,428,537; Sept. 12.
Dole, Frederick J., New York, N. Y. Nongiaring device for lamps. No. 1,429,067; Sept. 12.
Donaldson, William, Tacoma, Wash. Hack-saw frame. No. 1,429,195; Sept. 12.
Donnell, L. F., et al. (See Serene, Paul, assignor.)
Dougan, Kennedy, Minneapolis, Minn. Projectile. No. 1,428,683; Sept. 12.
Douglass, Howard H., Los Angeles, Calif. Spring compressor. No. 1,429,024; Sept. 12.
Dowdall, Augustus S. (See Campbell, John, assignor.)
Drakas, John P. (See Arteme, Thomas K., assignor.)
Draper, Benjamin, Liverpool, England. Gauge, more particularly for use for gauging tapered holes. No. 1,428,948; Sept. 12.
Draper Corporation. (See Youngquist, Henry W., assignor.)
Droste, Maria H. P., Manati, P. R. Steamer trunk. No. 1,429,068; Sept. 12.
Dughera, Annibale, assignor to P. G. Bellis, Turin, Italy. Free-wheel device. No. 1,429,196; Sept. 12.
Dunbar, Howard W., and A. Turner, assignor to Norton Company, Worcester, Mass. Electrically-driven grinding machine. No. 1,429,025; Sept. 12.
Dunkley Company. (See Dunkley, Samuel J., assignor.)
Dunkley, Samuel J., Oakland, Calif., assignor to Dunkley Company, Kalamazoo, Mich. Means for regulating and controlling the strength of lye solution. No. 1,429,129; Sept. 12.
Dunn, Florence H., Kansas City, Mo. Dishwasher. No. 1,429,069; Sept. 12.
Duplexalite Corporation. (See Mathieu, Frederick W., assignor.)
Dutton, Alfred E., Cleveland, Ohio. Heating device. No. 1,429,130; Sept. 12.
Dyar, Ralph M., Grosse Pointe Farms, Mich. Fire stop. No. 1,428,881; Sept. 12.
Dyer, Edgar M., Chicago, Ill. Ventilator and the like. No. 1,428,882; Sept. 12.
Dyett, James H., Brooklyn, N. Y. Baggage carrier. No. 1,429,197; Sept. 12.
Eastman, Joseph P., assignor to Eastman Manufacturing Company, Manitowoc, Wis. Hose coupling. No. 1,428,949; Sept. 12.
Eastman Kodak Company. (See Carroll, Stewart J., assignor.)
Eastman Kodak Company. (See Malone, Lester J., assignor.)
Eastman Kodak Company. (See Seel, Paul C., assignor.)
Eastman Kodak Company. (See Sulzer, Albert F., assignor.)
Eastman Kodak Company. (See Tozier, George H., assignor.)
Eastman Kodak Company. (See Webb, William R., assignor.)
Eastman Manufacturing Company. (See Eastman, Joseph P., assignor.)
Ebeling, Frederick W., New York, N. Y., assignor to Submarine Devices Corporation. Method of and apparatus for raising submerged vessels. No. 1,428,538; Sept. 12.
Eberhardt, Philip. (See Schwamb, P., and Eberhardt.)

Edens, Henry N., New Holstein, Wis. Apparatus for cleaning air and other gases. No. 1,428,950; Sept. 12.
Edwards, Charles D., Albert Lea, Minn. Road grader. No. 1,429,026; Sept. 12.
Edwards, Clifford R. (See Cappel, J., and Edwards.)
Electric Auto-Lite Company, The. (See Gilchrist, Clarence F., assignor.
Elmendorf, Armin, Madison, Wis., assignor to Has-Rellte Manufacturing Corporation. Method of and apparatus for gluing sheets edge to edge. No. 1,428,765; Sept. 12.
Emerson, Kenneth W., Honolulu, Hawaii. Can-feeding apparatus. No. 1,428,883; Sept. 12.
Engineering Development Company. (See Lawrence, Almon R., assignor.)
Erick, Emil W., Canby, Minn. Siren. No. 1,428,684; Sept. 12.
Ernst, Fritz B., Chicago, Ill. Carry-iron arrangement. No. 1,428,685; Sept. 12.
Esping, Conrad, assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Hand lever. No. 1,428,951; Sept. 12.
Evans, Joseph E., Bedford, Ind., assignor of one-fourth to O. N. Clifford, St. Louis, Mo., and one-fourth to J. O. Gyger, Bedford, Ind. Suspension device for equalizing the strain on elevator cables. No. 1,429,070; Sept. 12.
Eyerly, Lee U. (See Klein, R. A., Burtis, and Eyerly.)
Fandrich, Ernest. (See O'Neill, H., and Fandrich.)
Farber, Charles M., Tampa, Fla. Exhibiting apparatus. No. 1,428,766; Sept. 12.
Fargo, Harry L., Ripon, Wis. Ash receptacle. No. 1,428,686; Sept. 12.
Farkas, Edmund. (See Deutsch, Frank J., assignor.)
Farley, John W., Cleveland, Ohio. Radiator hanger. No. 1,428,767; Sept. 12.
Farrington, Charles E., Philadelphia, Pa. Agitator handle. No. 1,429,071; Sept. 12.
Fawcett, Arthur J., Myrtle Creek, Oreg. Spring shield for nursing bottles. No. 1,429,198; Sept. 12.
Fay, John L., assignor of one-half to W. S. Ireland, St. Louis, Mo. Renewable fuse. No. 1,428,768; Sept. 12.
Ferencz, José, Curityba, Parana, Brazil. Tube mill. No. 1,428,687; Sept. 12.
Ferguson, Charles T., New York, N. Y. Trousers press. No. 1,428,769; Sept. 12.
Ferguson, Robert B., Howell, Mich., assignor to G. E. Harpham, Los Angeles, Calif. Combination pliers. No. 1,428,884; Sept. 12.
Ferris, Walter, assignor to Bucyrus Company, South Milwaukee, Wis. Excavator and loader. No. 1,428,540; Sept. 12.
Ferris, Walter, assignor to Bucyrus Company, South Milwaukee, Wis. Jib hoist and automatic interlocking device for locomotive cranes and the like. No. 1,428,539; Sept. 12.
Festa, A. G. (See Bruman, Otto F., assignor.)
Field, Samuel, assignor to The Metals Extraction Corporation, Limited, London, England. Purification of metallic solutions. No. 1,429,131; Sept. 12.
Finney, James J., assignor of one-fourth to C. P. Schroeder, one-fourth to G. F. Jedlicka, and one-fourth to R. D. Bliss, Chicago, Ill. Valve. No. 1,429,199; Sept. 12.
Firestone Tire and Rubber Company. (See Putt, Edward D., assignor.)
Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
Flannery Bolt Company. (See Flannery, John R., assignor.)
Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure for boilers. No. 1,428,541; Sept. 12.
Follmer, Willis M. (See Grahum, Robert S., assignor.)
Folse, Raphael J., and F. L. Hecker, New Orleans, La. Tractor. No. 1,428,584; Sept. 12.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ionizing electrode for precipitating apparatus. No. 1,428,839; Sept. 12.
Forth, Charles, Detroit, Mich. Resilient support for vehicle bodies. No. 1,428,770; Sept. 12.
Fotacos, Peter, New York, N. Y. Dowel pin. No. 1,429,200; Sept. 12.
Fox, James M., Madison, Wis. Anchoring means for concrete bodies. No. 1,428,771; Sept. 12.
Franek, John. (See Allen, D. R., and Franek.)
Frankenthaler & Frankenthaler. (See Pivar, George, assignor.)
Franklin Railway Supply Company. (See Woodard, William E., assignor.)
Frans, George A., Omaha, Nebr. Hair waver. No. 1,428,585; Sept. 12.
Frederick, Alvah B. (See Bindschedler, Theodore S., assignor.)
Freer, Phelps M., Detroit, Mich. Engine compression regulator. No. 1,428,772; Sept. 12.
Freret, Arthur L., Ensley, Ala. Snap-switch mechanism. No. 1,428,542; Sept. 12.
Fried. Krupp Aktiengesellschaft. (See Krüger, Paul, assignor.)
Fried. Krupp Aktiengesellschaft. (See Schürmann, Richard, assignor.)
Fried. Krupp Aktiengesellschaft. (See Winter, W., and Immand, assignors.)
Fritts, Herbert L., Detroit, Mich. Hydraulic valve. No. 1,428,688; Sept. 12.
Fuchs, Karl, Atco, N. J. Prism for hemoglobinometers. No. 1,429,072; Sept. 12.
Fuhr, William, Chicago, Ill. Blank-cutting machine. No. 1,429,134; Sept. 12.
Fuller, Frans A., assignor to The J. E. Mergott Company, Newark, N. J. Bag fastener. No. 1,429,073; Sept. 12.
Fulton, Harold, Elyria, Ohio. Article retainer. No. 1,429,027; Sept. 12.
Galesman, Henry J. (See Graef, Ernest W., assignor.)
Galion Iron Works & Mfg. Co. (See Jones, Henry D., assignor.)
Gallagher, Arthur D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Lister plow. No. 1,428,543; Sept. 12.
Gardner, William R., Los Angeles, Calif. Fishtail bit. No. 1,428,774; Sept. 12.
Garlinghouse, Leslie H., Aspinwall, Pa., assignor to Blaw-Knox Company. Floor form. No. 1,428,953; Sept. 12.
Garrison, Benjamin, Morgantown, W. Va. Flexible power transmission. No. 1,428,586; Sept. 12.
Gase, George A., East Cleveland, and E. A. Seymer, Cleveland, Ohio. Refrigerating system. No. 1,429,132; Sept. 12.
Gates, William H., New Haven, Conn. Combination socket wrench. No. 1,428,840; Sept. 12.
General Electric Company. (See Hawkins, Laurence A., assignor.)
General Motors Corporation. (See Graham, George M., assignor.)
General Motors Corporation. (See Meyers, John M., assignor.)
General Rubber Company. (See Bradley, C. E., and Coffin, assignors.)
Gereke-Allen Carton Company. (See Gereke, Edward G., assignor.) (Reissue.)
Gereke, Edward G., assignor to Gereke-Allen Carton Company, St. Louis, Mo. Folding box. (Reissue.) No. 15,453; Sept. 12.
Gewerkschaft Hansbach II. (See Weber, Wilhelm, assignor.)
Gilchrist, Clarence F., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Driving mechanism. No. 1,429,028; Sept. 12.
Gilmore, William R., assignor to Superior Steel Castings Company, Benton Harbor, Mich. Wheel and making same. No. 1,428,954; Sept. 12.
Gingerick, Kent S., Urbana, assignor to R. T. Parrish, Dayton, Ohio. Steering gear for motor-propelled vehicles. No. 1,429,029; Sept. 12.
Gladish, Harry E., Higginsville, Mo. Motor chair. No. 1,429,213; Sept. 12.
Glogauer, Fritz. (See Jünghans, H., and Glogauer.)
Gooding, Edward N., trustee. (See Bell, Louis, assignor.)
Goedeke, Frederick W., assignor of one-half to H. Mueller, Evansville, Ind. Safety crank catch. No. 1,429,030; Sept. 12.
Goetz, William, Vancouver, British Columbia, Canada. Releasable hook. No. 1,428,775; Sept. 12.
Goodrich, B. F., Company, The. (See Butler, James L., assignor.)
Grabfelder, Benjamin F., Stockton, Calif. Collapsible toilet chair. No. 1,428,627; Sept. 12.
Graef, Ernest W., Caldwell, N. J., assignor to H. J. Gaisman, Woodmere, N. Y. Combined intake and exhaust manifold. No. 1,428,841; Sept. 12.
Graham, George M., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. System of automobile decking. No. 1,428,842; Sept. 12.
Graham, John E., London, England. Combined pressure gauge and valve. No. 1,428,776; Sept. 12.
Graham, Robert S., assignor of one-half to W. M. Follmer, New York, N. Y. Removable cap for typewriter keys. No. 1,428,544; Sept. 12.
Grand Rapids Tire and Rubber Corporation. (See Swan, Herbert H., assignor.
Granlow, Eric J. L., Schenectady, N. Y. Die structure. No. 1,428,777; Sept. 12.
Grant, Frederick C. and F. Z., Chicago, Ill. Pedal attachment for automobiles. No. 1,428,843; Sept. 12.
Grant, Frieda Z. (See Grant, Frederick C. and F. Z.)
Gray, Joseph P., Los Angeles, Calif. Automobile wind deflector. No. 1,428,844; Sept. 12.
Gray, Robert D., Ridgewood, N. J. Combined phonograph and moving-picture machine. No. 1,428,845; Sept. 12.
Greenberg, Louis, Chicago, Ill. Mechanism for operating searchlights. No. 1,428,689; Sept. 12.
Greick, William P. M., St. Paul, Minn. Prepared flour. No. 1,428,628; Sept. 12.
Grierson, Paul S., South Orange, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y. Electric-switch casing. No. 1,429,133; Sept. 12.
Griffith, Edward D., Tucson, Ariz. Railway lantern. No. 1,429,074; Sept. 12.
Grossman, Meyer, Philadelphia, Pa. Glass-fastening device. No. 1,428,955; Sept. 12.
Grotnes, Charles G., Chicago, Ill. Rolling machine. No. 1,428,778; Sept. 12.
Gubelmann, William S., Buffalo, N. Y. Adding and recording machine. No. 1,429,201; Sept. 12.
Gubelmann, William S., Buffalo, N. Y. Adding and recording machine. No. 1,429,202; Sept. 12.
Guillet, Albert M., Charlotte, N. C. Gage. No. 1,428,690; Sept. 12.
Gunn, Charles H., Oakland, Calif. Combined table and bookcase. No. 1,428,629; Sept. 12.

Gunn, Shelton J., Gunntown, Fla. Iron-bound box cover. No. 1,429,134; Sept. 12.
Gutenson, Joseph A., Chicago, Ill. Grinder. No. 1,428,952; Sept. 12.
Gyger, Jasper O., et al. (See Evans, Joseph E., assignor.)
Hackman, William C., assignor of one-half to M. Zinke, Milwaukee, Wis. Soldering-iron attachment for acetylene-torch heads. No. 1,428,956; Sept. 12.
Haggstrom, Charles J., Warren, Pa. Liquid-testing device. No. 1,429,136; Sept. 12.
Haines, Robert H. (See Pitts, W. C., and Haines.)
Håkonsen, Ole, Skudenes, Norway. Foghorn for motor crafts. No. 1,428,587; Sept. 12.
Hale, Noah, Chattanooga, assignor to H. Loeb and H. Hurst, Memphis, Tenn. Oil burner. No. 1,429,137; Sept. 12.
Hall, Edwin O., Bangor, Me. Combined wall cabinet and dressing tray. No. 1,428,957; Sept. 12.
Hammond, John H., jr. (See Trenor, Albert D., assignor.)
Hammond, Oliver S., Guelph, Ontario, Canada. Vibrator for rapping patterns in molding. No. 1,428,630; Sept. 12.
Hanglelter, Carl. (See Clemm, H., and Hanglelter.)
Hanson, Carl. (See Johnson, Albin J., assignor.)
Hapgood, Charles W., Boston, Mass. Refrigerating apparatus. No. 1,428,958; Sept. 12.
Harder, Arthur J., Chicago, Ill. Linotype-bar cutting or broaching machine. No. 1,429,075; Sept. 12.
Harder, Paulli, Copenhagen, Denmark. Puncture-healing tube. No. 1,429,031; Sept. 12.
Harpham, G. E. (See Ferguson, Robert B., assignor.)
Harrington, Thomas R., Platte City, Mo. Shock loader. No. 1,429,032; Sept. 12.
Harris, Oran P., Richmond, Ind., assignor of one-half to W. M. Parker, Hollandsburg, Ohio. Railway-rail fastening. No. 1,429,033; Sept. 12.
Harrison, William H., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Testing and adjusting apparatus for cord circuits. No. 1,428,631; Sept. 12.
Harry, Albert J., East Cleveland, Ohio. Method and apparatus for treating saws with heat. No. 1,429,138; Sept. 12.
Hartstra, Johannes, Grand Rapids, Mich. Weather strip. No. 1,429,203; Sept. 12.
Haseltine, William E., Ripon, Wis. Antiglare device for motor vehicles. No. 1,429,034; Sept. 12.
Haskelite Manufacturing Corporation. (See Elmendort, Armin, assignor.
Hatcher, William A., Detroit, assignor to Wernicke-Hatcher Pump Company, Grand Rapids, Mich. Rotary pump. No. 1,428,691; Sept. 12.
Hawkins, Laurence A., Schenectady, N. Y., assignor to General Electric Company. Speed-regulating arrangement. No. 1,428,588; Sept. 12.
Haydacek, John and M. Humarcik, Racine, Wis. Automobile radiator. No. 1,428,779; Sept. 12.
Hayes, Albert, New York, N. Y., assignor, by mesne assignments, to U. S. Industrial Alcohol Co. Forming a liquid fuel. No. 1,428,885; Sept. 12.
Haynes, George P. (See McDonald, J., and Haynes.)
Head, Robert, New York, N. Y., assignor to The Aeolian Company. Phonograph and the like. No. 1,429,204; Sept. 12.
Heberling, John, Rochester, N. Y. Buckle. No. 1,429,139; Sept. 12.
Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating sludge acids. No. 1,429,140; Sept. 12.
Hecker, Frederick L. (See Folse, R. J., and Hecker.)
Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,886; Sept. 12.
Helsley, Nimrod A., Grafton, W. Va. Record holder. No. 1,429,076; Sept. 12.
Helt, Edward H., Bellevue Borough, Pa. Automatic sales apparatus. No. 1,428,589; Sept. 12.
Hemphill Company. (See Bosworth, George P., assignor.)
Hendrickson, David, Berkeley, Calif. Automatic coin selector. No. 1,428,632; Sept. 12.
Herman, John, Los Angeles, Calif. Veneering apparatus. No. 1,428,692; Sept. 12.
Heacock, Ethan N., Westfield, N. J., assignor to New Jersey Foundry & Machine Company. Portable crane. No. 1,428,887; Sept. 12.
Hibbard, Lloyd J. (See Candee, A. H., and Hibbard.)
Higby, B. P., et al. (See Serene, Paul, assignor.)
Hille, Adolph W., Denver, Colo., assignor to American Shale Reduction Company. Apparatus for separating oils. No. 1,428,590; Sept. 12.
Hinchey, Robert E., Aurora, Mo. Advertising machine. No. 1,429,205; Sept. 12.
Hoffman, Addison F., Pittsburgh, Pa. Fertilizer material and producing same. No. 1,428,633; Sept. 12.
Hoffman, Gustav. (See Bowman, William B., assignor.)
Hoffman, Louis, Duluth, Minn., assignor, by mesne assignments, to Steam Pressing Iron Company, Sadiron. No. 1,428,959; Sept. 12.
Holland, Ezekiel D., Byron, Ga. Refrigerator. No. 1,428,591; Sept. 12.
Holman, Arthur L. (See Reynolds, L. G., and Holman.)
Holman, Joseph H. (See Nettle, W. E., Selby, Blythe, and Holman.)
Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. No. 1,428,634; Sept. 12.
Hoosier Stove Company. (See Blackburn, Edward E., assignor.)
Hotchner, Joseph, San Francisco, Calif. Illuminated sign. No. 1,429,077; Sept. 12.
Houston, Harold A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear case for jackshafts. No. 1,428,846; Sept. 12.
Hover, Lee D., Chicago, Ill. Embroidery needle. No. 1,428,960; Sept. 12.
Howard, Lemuel F., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Indication means for light signals. No. 1,429,141; No. 1,429,141; Sept. 12.
Hudd, Alfred E. (See Wion, G. H., and Hudd. (Reissue.)
Hudoba, Anthony, Struthers, Ohio. Self-moving cradle. No. 1,428,961; Sept. 12.
Hudson Manufacturing Company. (See Ackerman, Robert, assignor.)
Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Axle-driven transmission mechanism. No. 1,428,693; Sept. 12.
Humphrey, Herbert A., London, England. Apparatus for producing nitric oxide. No. 1,429,035; Sept. 12.
Hungerford, Warren H. (See Peters, F. M., and Hungerford.)
Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,428,635; Sept. 12.
Hurlbut, Frank A., Flat River, Mo. Furnace-bridge-wall construction. No. 1,428,636; Sept. 12.
Hurst, Henry, et al. (See Hale, Noah, assignor.)
Husarcik, Matus. (See Hayducek, J., and Husarcik.)
Hutchinson, Job, Brooklyn, N. Y. Two-cycle internal-combustion engine. No. 1,429,078; Sept. 12.
Hutchinson, Morton C., Woodbury, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Yield-point detector. No. 1,428,637; Sept. 12.
Huyck, F. C., & Sons. (See Wilson, Ezekiel J., assignor.)
Iftiger, William C., Los Angeles, Calif. Plunger. No. 1,429,036; Sept. 12.
Illinois Electric Porcelain Company. (See Kettron, Charles W., assignor.)
Immand, Gerhard. (See Winter, W., and Immand.)
Independent Stove Company, The. (See Robinson, William V., assignor.)
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
Ingersoll-Rand Company. (See Redfield, Snowden B., assignor.)
Insley Manufacturing Company. (See Insley, W. H., and Rasmussen, assignors.)
Insley Manufacturing Company. (See Rasmussen, A. C., and Schmid, assignors.)
Insley Manufacturing Company. (See Worcester, Harold A., assignor.)
Insley, William H., and A. C. Rasmussen, assignors to Insley Manufacturing Company, Indianapolis, Ind. Hoisting apparatus. No. 1,428,888; Sept. 12.
Ireland, Ward S. (See Fay, John L., assignor.)
Jacobs, Morris, deceased, by S. Jacobs, administratrix, Brooklyn, N. Y. Lock nut. No. 1,428,545; Sept. 12.
Jacobs, Saly, administratrix. (See Jacobs, Morris.)
Jahn, B., Manufacturing Company, The. (See Jahn, B., and Kahl, assignors.)
Jahn, Berthold, and E. E. Kahl, assignors to The B. Jahn Manufacturing Company, New Britain, Conn. Staple binder. No. 1,428,694; Sept. 12.
Jarry, Paul, assignor to Firm Luftschiffbau Zeppelin, Gesellschaft mit beschrankter Haftung, Friedrichshafen, Germany. Speed indicator. No. 1,428,780; Sept. 12.
Jedlicka, Gustav F., et al. (See Finney, James J., assignor.)
Jefferson Forge Products Co., The. (See Wilber, Carl L., assignor.)
Jeffrey Manufacturing Company. (See Holmes, Morris P., assignor.)
Jenkins, William P., and W. D. Woolley, Tredegar, England. Account sheet. No. 1,428,592; Sept. 12.
Jensen, Niels C. (See Truckenbrodt, J., and Jensen.)
Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Built-up crank shaft. No. 1,428,847; Sept. 12.
Johnsen, Tobias, North Bay, Ontario, Canada. Portable drying apparatus. No. 1,428,593; Sept. 12.
Johnson, Albin J., assignor of one-half to C. Hansen, Duluth, Minn. Combination tool. No. 1,428,848; Sept. 12.
Johnson, Carl E., Los Angeles, Calif., assignor to U. S. Industries, Inc. Dynamo-electric-machine construction. No. 1,428,889; Sept. 12.
Johnson, Henry, Portland, Oreg. Micrometer adapter. No. 1,428,781; Sept. 12.
Johnston, Hjalmar, Duluth, Minn. Automatic wrench. No. 1,428,546; Sept. 12.

Jones, David W., Chicago, Ill. Steering gear for automobiles. No. 1,429,142; Sept. 12.
Jones, David W., Chicago, Ill. Steering gear for automobiles. No. 1,429,143; Sept. 12.
Jones, Henry D., assignor to The Gallon Iron Works & Mfg. Co., Gallon, Ohio. Road-scarifying device. No. 1,429,144; Sept. 12.
Jörgensen, Hans F. B., Copenhagen, Denmark. Production of heat-exchanging bodies. No. 1,428,638; Sept. 12.
Jouclard, Jules, Versailles, France. Stove adapted to burn sawdust, shavings, and like workshop refuse. No. 1,428,782; Sept. 12.
Joy, Joseph F., New Bethlehem, assignor to Joy Machine Company, Pittsburgh, Pa. Method of and means for locomotive transportation of coal cars in mines. No. 1,429,145; Sept. 12.
Joy Machine Company. (See Joy, Joseph F., assignor.)
Jünghans, Helmut, Schramberg, Germany, and F. Glogauer, Cincinnati, Ohio. Producing visible signals and advertisements on water surfaces. No. 1,428,630; Sept. 12.
Junker, Leo H., Pelham, N. Y. Individual-package display card. No. 1,428,783; Sept. 12.
Kahl, Ernest E. (See Jahn, R., and Kahl.)
Kainer, Benjamin, New York, N. Y. Egg separator. No. 1,428,594; Sept. 12.
Karge, Maxwell R., Phoenix, assignor, by mesne assignments, to C. J. Deckop, Buffalo, N. Y. Universal power-transmitting element. No. 1,429,146; Sept. 12.
Karge, Maxwell R., Phoenix, N. Y. Flexible coupling. No. 1,429,147; Sept. 12.
Karrio, Erick, Hancock, Mich. Railway spike. No. 1,428,962; Sept. 12.
Katcher, Morris. (See Sopenoff, S. L., and Katcher.)
Keller, Theodore, assignor of one-half to M. Michel, New York, N. Y. Changeable sign. (Reissue.) No. 15,454; Sept. 12.
Kellogg Switchboard and Supply Company. (See Currier, Hiram D., assignor.)
Kendall, Earl. (See Wassman, F. C., and Kendall.)
Kendall, William G., Newark, N. J. Partition for vanity cases. No. 1,428,890; Sept. 12.
Kessel, Joseph W., Brooklyn, N. Y. Clip. No. 1,429,037; Sept. 12.
Kettron, Charles W., assignor to Illinois Electric Porcelain Company, Macomb, Ill. Split insulator. No. 1,429,079; Sept. 12.
Kier, George L. (See Warren, W. C., and Kier.)
Kinderwater, Julius, New York, N. Y. Crosshead. No. 1,428,695; Sept. 12.
King, J. Charles. (See Baddeley, Benjamin F., assignor.)
Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,428,640; Sept. 12.
Kirby, Ambrose M., St. Louis, Mo. Hospital bed. No. 1,429,080; Sept. 12.
Kircher, Paul, assignor to Massey Concrete Products Corporation, Chicago, Ill. Cribbing. No. 1,428,595; Sept. 12.
Kirk, William C. (See Upton, F. B., and Kirk.)
Kish, Paul, Detroit, Mich. Combination steering-wheel lock. No. 1,428,963; Sept. 12.
Klasemer, William L., Ludlow, Ky. Force-feed oil and grease distributor. No. 1,428,547; Sept. 12.
Klein, Roy A., W. H. Burtis, and L. C. Eyerly, Salem, Oreg. Elevating mechanism for automotive trucks. No. 1,429,038; Sept. 12.
Kline, Charles R., Reading, Pa. Furnace-base insulation. No. 1,428,548; Sept. 12.
Klock, Harold F., Elgin, Ill. Support for vehicles. No. 1,428,964; Sept. 12.
Kloepper, Valentine C., St. Louis, Mo. Combined support and guard. No. 1,429,039; Sept. 12.
Knight American Patents Company. (See Porter, Finley R., assignor.)
Knox, William J., assignor to E. D. Warren, New York, N. Y. Method and apparatus for treating or converting compounds preferably of a hydrocarbon nature. No. 1,428,641; Sept. 12.
Kober, Ferdinand, Milwaukee, Wis. Refrigerator. No. 1,428,549; Sept. 12.
Koehler, Maxemilian E., Washington, D. C. Attachment for ironing boards. No. 1,429,081; Sept. 12.
Koppelman, Morris, and S. Cooper, Brooklyn, N. Y., assignors of one-half to said Koppelman and one-half to L. Mann, New York, N. Y. Packing for fragile articles. No. 1,429,207; Sept. 12.
Kornsweet, Samuel A., Los Angeles, Calif. Sanitary case. No. 1,429,082; Sept. 12.
Kouns, Wesley, Salina, Kans. Wagon-body construction. No. 1,429,208; Sept. 12.
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel box. No. 1,428,849; Sept. 12.
Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)
Krause, Lou, New York, N. Y., assignor to Slyt Edge Company, Inc. Fringed hat. No. 1,428,891; Sept. 12.
Kreiling, Henry H., deceased; L. Kreiling, administratrix, Chicago, Ill. Ink distributor. No. 1,429,148; Sept. 12.
Kreiling, Louise, administratrix. (See Kreiling, Henry H.)
Kruger, Arthur H., Tulsa, Okla. Well-tool grab. No. 1,428,784; Sept. 12.
Krüger, Paul, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Coupling. No. 1,428,596; Sept. 12.
Kubelka, Vratislav, Brooklyn, N. Y. Tire. No. 1,429,209; Sept. 12.
Kubis, Andrzej. (See Brososky, Frank, assignor.)
Kuehner, Arthur T., Elkridge, Md. Combined car-door lock and opener. No. 1,428,785; Sept. 12.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,850; Sept. 12.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,851; Sept. 12.
Lacour, John P., New York, N. Y. Ice anchor. No. 1,429,210; Sept. 12.
Lake, James, Jr., Brooklyn, assignor to James Lake's Sons, New York, N. Y. Hat-machine press. No. 1,429,083; Sept. 12.
Lake's, James, Sons. (See Lake, James, jr., assignor.)
Lambert, Edouard, Paris, and R. Pernin, La Plaine St. Denis, France. Mechanical process of weaving. No. 1,428,786; Sept. 12.
Lambie, Charles and F. W., Minneapolis, Minn. Convertible cot and table. No. 1,428,642; Sept. 12.
Lambie, Frederick W. (See Lambie, Charles and F. W.)
Landsiedel, Harry, Norwood, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding machine. No. 1,428,787; Sept. 12.
Lane, Alfred M., assignor to Monarch Metal Products Company, St. Louis, Mo. Slot closure. No. 1,429,040; Sept. 12.
Lane, Howard, Ashford, England. Apparatus for carrying out the preparation of catalytic material employed for the promotion of synthetic chemical reactions. No. 1,428,965; Sept. 12.
Langley, James H., Long Beach, Calif. Pneumatic control system. No. 1,428,643; Sept. 12.
Larsen, Lee, Tampico, Mexico. Excavating machine of the rotary type. No. 1,428,788; Sept. 12.
La Société Anonyme de Produits Chimiques Etablissements Malétra. (See Trevoux, Laurent-E. M., assignor.)
La Societe La Metallurgique Electrique. (See Vedovelli, Edouard, assignor.)
Latham, Warren, Spokane, Wash. Apparatus for molding ice cakes. No. 1,428,892; Sept. 12.
Lawlor, Simeon C., Chicago, Ill. Mop wringer. No. 1,428,893; Sept. 12.
Lawrence, Almon R., Quincy, assignor to Engineering Development Company, Boston, Mass. Heat interchanger. No. 1,429,149; Sept. 12.
Lawson, Guy O., Elmira Heights, N. Y. Cherry pitter. No. 1,428,789; Sept. 12.
Legate, William A., assignor of one-half to G. C. Sandidge and C. R. Damon, Guthrie, Okla. Drilling bit. No. 1,429,041; Sept. 12.
Lemon, Robert L., assignor to Van Camp Packing Company, Indianapolis, Ind. Shipping box for canned goods. No. 1,428,597; Sept. 12.
Lenehan, William, Denver, Colo. Lawn-edge trimmer. No. 1,428,696; Sept. 12.
Leopold Casella & Co., Gesellschaft mit beschränkter Haftung. (See Schmidlin, Julius, assignor.)
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-spacing mechanism in buttonhole-sewing machines. No. 1,428,598; Sept. 12.
Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,428,804; Sept. 12.
Leytham, Thomas, assignor to Shur-On Optical Co., Inc., Rochester, N. Y. Ophthalmic mounting. No. 1,428,697; Sept 12.
Libbey-Owens Sheet Glass Company, The. (See Crowley, John C., assignor.) (Reissue.)
Lieberman, Nathan L., Bayonne, N. J. Trolley wheel. No. 1,428,644; Sept. 12.
Lightburn, Robert W., Gans, Pa. Danger signal for mines. No. 1,429,211; Sept. 12.
Lindhorst, Frederick L., assignor to Detroit Torch & Manufacturing Company, Detroit, Mich. Fire pot. No. 1,428,790; Sept. 12.
Line-A-Time Mfg. Co., The. (See Bishop, Thomas H., assignor.)
Liskow, Sigmund, assignor of one-half to H. Sway, Cincinnati, Ohio. Adjustable bracket and shelf. No. 1,429,042; Sept. 12.
Lite Products Corporation. (See Walters, Edward H., assignor.)
Lodge, Edwin W., Norfolk, assignor of one-fourth to F. D. Cock, Hampton, Va. Headlight screen. No. 1,428,895; Sept. 12.
Loeb, Henry, et al. (See Hale, Noah, assignor.)
Loeffler, Joseph E., St. Louis, Mo. Fence. No. 1,429,084; Sept. 12.
Loewenthal, Gustave C., New York, N. Y. Sign and the like. No. 1,428,698; Sept. 12.
Löwenstein, Harry F. (See Whitaker, Norman T., assignor.)
Loy, James W., Burnett, Calif. Well-casing-capping device. No. 1,428,791; Sept. 12.
Lübeck, Hilding, Herserud, Sweden. Spring support for vehicles. No. 1,428,699; Sept. 12.
Lucey Manufacturing Corporation of Tennessee. (See Suman, John R., assignor.)
Luftschiffbau Zeppelin, Gesellschaft mit beschränkter Haftung. (See Jaray, Paul, assignor.)

Luna, Joe M., Wright, Kans. Thresher. No. 1,428,590; Sept. 12.
Lysiak, Antoni, Manchester, Mass. Joint or connection. No. 1,428,792; Sept. 12.
McAllaster, George R., Rochester, N. Y. Bed. No. 1,429,150; Sept. 12.
McCarthy, William F., Springfield, Mass. Paper-finishing machine. No. 1,428,852; Sept. 12.
McClure, Rodney N., Los Angeles, Calif. Record holder. No. 1,429,151; Sept. 12.
McClure, Silas, Beaver Dam, Wis. Stove and range. No. 1,428,853; Sept. 12.
McCullough, William D., Detroit, Mich. Pliers. No. 1,428,600; Sept. 12.
McDonald, James, and G. P. Haynes, assignors to Todd Shipyards Corporation, New York, N. Y. Steam-atomizing fuel-oil burner. No. 1,428,896; Sept. 12.
McDonnell, George P., St. Louis, Mo. Fluid-actuated circuit controller. No. 1,428,645; Sept. 12.
McFarlane, Lauchlan G. (See Carter, G. J., and McFarlane.)
McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administratrix, assignor to The Purposed Mind Development Security Association of the World. Fuel-control system. No. 1,428,793; Sept. 12.
McGary, Alexander, New York, N. Y. Heating apparatus. No. 1,429,085; Sept. 12.
McGuckin, John J., Brooklyn, N. Y. Bicycle steering head. No. 1,428,601; Sept. 12.
McKinley, Harold J. (See Burns, David E., assignor.)
McNell, Claude P. (See Brinker, J. E., and McNell.)
Macdonald, Duncan, Pittsburgh, Pa. Motor vehicle. No. 1,428,550; Sept. 12.
MacMahon, James H., Saltville, Va., assignor to The Mathieson Alkali Works, Inc. Producing barium chloride. No. 1,428,646; Sept. 12.
Madison-Kipp Corporation. (See Coleman, Thomas E., assignor.)
Maggiora, Demetrio, Florence, Italy. Means for securing tires to rims of vehicles. No. 1,429,152; Sept. 12.
Magnuson, Mathias, Chicago, Ill. Necktie holder. No. 1,429,086; Sept. 12.
Magrady, Joseph J., Chicago, Ill. Scale beam poise. No. 1,428,551; Sept. 12.
Malekow, Philip, assignor to Baker Food Products Company, Chicago, Ill. Treating cheese. No. 1,428,602; Sept. 12.
Malone, Lester J., assignor to Eastman Kodak Company, Rochester, N. Y. Composition and film containing mixtures of cellulose esters and ethers. No. 1,429,153; Sept. 12.
Mann, Leon. (See Koppleman, M., and Cooper, assignors.)
Martin, Andrew, Toronto, Ontario, Canada. Collapsible camp chair and canopy therefor. No. 1,429,043; Sept. 12.
Martin, Fernand P., Paris, France. Apparatus for delivering liquid or granular material in predetermined measured quantities. No. 1,429,154; Sept. 12.
Martin, William J., Toledo, Ohio. Safety device. No. 1,428,966; Sept. 12.
Massey Concrete Products Corporation. (See Kircher, Paul, assignor.)
Mathieson Alkali Works, Inc., The. (See MacMahon, James H., assignor.)
Mathieu, Frederick W., assignor to Duplexalite Corporation, New York, N. Y. Lighting fixture. No. 1,428,603; Sept. 12.
Mathisen, Hjalmar. (See Bastian, C. L., and Mathiesen.)
Maxwell Engineering and Manufacturing Company. (See Seavey, Haller D., assignor.)
Mazsick, Frank W., North Milwaukee, Wis. Cabinet ironing board. No. 1,428,967; Sept. 12.
Meadowcroft, John R., Montreal, Quebec, Canada. Drypipe valve. No. 1,428,700; Sept. 12.
Mellinger, Cortez A. (See Coalwell, Charles B., assignor.)
Mellon, Harry J., Pittsburgh, Pa. Combination pen and pencil holder and calendar. No. 1,428,968; Sept. 12.
Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
Merrill, Joseph J., Chicago, Ill., assignor to Corn Products Refining Company. Method of and apparatus for manufacturing dextrine. No. 1,428,604; Sept. 12.
Messenger, Jack E., Des Moines, Iowa. Shutter for automobile radiators. No. 1,428,647; Sept. 12.
Metals Extraction Corporation, The. (See Field, Samuel, assignor.)
Metcalf, Alpha H., assignor to H. A. Allen & Co., Attleboro, Mass. Belt buckle. No. 1,429,155; Sept. 12.
Meyers, John M., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Farm tractor. No. 1,428,854; Sept. 12.
Mezger, Charles P., Glenburnie, Md. Printing device. No. 1,428,795; Sept. 12.
Michel, Max. (See Keller, Theodore, assignor.) (Reissue.)
Michelis, Otto A., Detroit, Mich. Wire loop. No. 1,428,701; Sept. 12.
Micon, David, Benton Harbor, Mich. Method and apparatus for filling roll edges. No. 1,428,796; Sept. 12.
Micon, David, Benton Harbor, Mich. Mattress. No. 1,428,797; Sept. 12.
Middleton, Harry C. (See Williams, J. N., and Middleton.)
Midson, James J., South Brisbane, Queensland, Australia. Bottle. No. 1,428,969; Sept. 12.
Miller, Henry C., Waterford, N. Y. Stopping mechanism for sewing machines. No. 1,428,648; Sept. 12.
Miller, Hiram C., Parkesburg, Pa. Locking device for steering wheels. No. 1,428,649; Sept. 12.
Miller, Sigfrid A., Oakland, Calif. Combination auto bed and tent. No. 1,428,897; Sept. 12.
Miller, William J., Swissvale Borough, Pa. Apparatus for manufacturing glass articles. No. 1,428,855; Sept. 12.
Moline Plow Company. (See Dickinson, Harry S., assignor.)
Moline Plow Company. (See Esping, Conrad, assignor.)
Moline Plow Company Incorporated. (See Seaholm, John P., assignor.)
Monarch Metal Products Company. (See Lane, Alfred M., assignor.)
Monroe, E. P. (See Taylor, Sidney, assignor.)
Moralitis, Charalabos, Galveston, Tex. Sailboat. No. 1,429,156; Sept. 12.
Morin, Honore, New Auburn, Me. Apparatus for relasting shoes. No. 1,429,157; Sept. 12.
Morrison, John A., Mansfield, Ohio. Lifting jack. No. 1,428,702; Sept. 12.
Morton, Fred S., Worcester, Mass. Sheet-metal wheel or roller. No. 1,429,158; Sept. 12.
Moske, Rudolf, San Francisco, Calif. Telescope-sight mounting. No. 1,428,655; Sept. 12.
Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Making beam heads. No. 1,428,970; Sept. 12.
Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)
Mueller, Herman. (See Goedeke, Frederick W., assignor.)
Mullern, Emil, North Arlington, N. J. Engine piston. No. 1,428,552; Sept. 12.
Murphy, Walter P. (See Sisson, Vinton E., assignor.)
Murray, John J., et al. (See Davis, Mortimer D., assignor.)
Myer, Bert W., and J. Brown, Elkhart, Kans. Calf weaner. No. 1,428,794; Sept. 12.
Nagle, William, San Francisco, Calif. Friction transmission. No. 1,428,898; Sept. 12.
Nash, Lewis, H., South Norwalk, Conn. Turbo displacement motor. No. 1,429,044; Sept. 12.
Neary, Philip, Walla Walla, Wash. Portable hopper. No. 1,428,605; Sept. 12.
Neikirk, John O., Lombard, assignor to Rodger Ballast Car Co., Chicago, Ill. Dump-door-operating mechanism. No. 1,428,650; Sept. 12.
Neimeyer, John, Trenton, Ohio. Railway tie. No. 1,429,087; Sept. 12.
Nelson, Adolph L., Indianapolis, Ind. Internal-combustion engine. No. 1,429,159; Sept. 12.
Nelson, George R., Center City, Minn. Power attachment. No. 1,428,651; Sept. 12.
Nelson, Lewis D., Union City, Mich. Bag-tying machine. No. 1,429,160; Sept. 12.
Nelson, Oscar M., New Orleans, La. Clarifier. No. 1,428,798; Sept. 12.
Nettle, William E., P. Selby, J. Blythe, and J. H. Holman, Johannesburg, Transvaal, South Africa. Reciprocating rock drill for supplying water to bore holes during drilling. No. 1,428,606; Sept. 12.
Neumeyer, Horace F., Macungie, assignor to H. G. Biehn, Quakertown, Pa. Appliance for flushing closets. No. 1,428,971; Sept. 12.
Neuteboom, Boudewijn B., Detroit, Mich., assignor, by mesne assignments, to Sinclair Molitor Corporation, New York, N. Y. Vehicle seat support. No. 1,428,652; Sept. 12.
Neuteboom, Boudewijn B., Detroit, Mich., assignor, by mesne assignments, to Winther Motors, Inc., Kenosha, Wis. Universal-joint casing. No. 1,428,799; Sept. 12.
New Haven Clock Co. (See Porter, Wilson E., assignor.)
New Jersey Foundry & Machine Company. (See Hescock, Ethan N., assignor.)
Newell Mfg. Co., The. (See Newell, William A., assignor.)
Newell, William A., assignor to The Newell Mfg. Co., Inc., Ogdensburg, N. Y. Curtain rod and rod support. No. 1,428,972; Sept. 12.
Newlin, Otto, Wallace, Mich. Log loading and unloading grapple. No. 1,429,161; Sept. 12.
Nick, Peter, Los Angeles, Calif. Dilator combination. No. 1,428,653; Sept. 12.
Nicolussi, Charles. (See Nicolussi, Engelbert, assignor.)
Nicolussi, Engelbert, Glendive, Mont., assignor of one-half to C. Nicolussi, Chicago, Ill. Culinary implement. No. 1,428,703; Sept. 12.
Niedermayer, George, assignor to The Tell Machine & Tool Co., Cleveland, Ohio. Expansible reamer. No. 1,429,045; Sept. 12.
Nixon, Albion K., San Francisco, assignor of one-half to A. Casper, Vallejo, Calif. Caster. No. 1,428,899; Sept. 12.
Nordmark, Henry P., Grand Rapids, assignor of one-half to F. I. Chichester, Allegan, Mich. Transfer mechanism for registers. No. 1,428,607; Sept. 12.
Norman, Edward R., Chicago, Ill. Packing ring. No. 1,428,654; Sept. 12.

Normand, Henry S., Waterbury, Conn., assignor to Consolidated American Fastener Companies, Inc., New York, N. Y. Machine for making snap fasteners. No. 1,429,088; Sept. 12.
Norris, John O., Pittsburg, Kans. Safety lever switch lock. No. 1,428,800; Sept. 12.
Northon, John, Clare, Mich. Road leveler. No. 1,428,973; Sept. 12.
Norton Company. (See Dunbar, H. W., and Turner, assignors.)
Oakes, Ben, Detroit, Mich. Sprinkler. No. 1,428,553; Sept. 12.
Oberlander, Samuel, New York, N. Y. Cutting device and receptacle therefor. No. 1,429,162; Sept. 12.
Olberg, Charles R., Alhambra, Calif., assignor of one-half to F. R. Schanck, Chicago, Ill. Rotary scraper. No. 1,429,089; Sept. 12.
Oliver Chilled Plow Works. (See Altgelt, Rudolph J., assignor.)
Oliver Chilled Plow Works. (See Gallagher, Arthur D., assignor.)
Oliver, Thomas C. (See Hechenbleikner, I., and Oliver.)
Olson, Ernest M., Chicago, Ill. Control mechanism for lamps. No. 1,428,974; Sept. 12.
O'Neill, Clearence B., Clymer, Pa. Nonset automatic stop. No. 1,429,046; Sept. 12.
O'Neill, Haylett, Larchmont, and E. Faudrich, Schenectady, N. Y. Fuel burner. No. 1,429,090; Sept. 12.
Oppenheimer, Solomon, Washington, D. C. Newspaper clamp. No. 1,428,900; Sept. 12.
Oppman, Joseph, assignor of one-half to A. I. Daniels, Connellsville, Pa. License holder. No. 1,429,091; Sept. 12.
Osterwell, Sydney, Newark, N. J. Wardrobe trunk and garment-hanger bracket therefor. No. 1,428,554; Sept. 12.
Oulton, Charles B., Attleboro, Mass. Rose-engine-turning machine. No. 1,428,801; Sept. 12.
Owens Bottle Company, The. (See Soubier, Leonard D., assignor.)
Palmer-Bee Company. (See Bee, W. E., and Simpson, assignors.)
Palmer-Bee Company. (See Simpson, William E., assignor.)
Palmolive Company, The. (See Schwantes, Julius, assignor.)
Paranteau, George R., Ventura, Calif. Fruit-transferring device. No. 1,429,092; Sept. 12.
Paranteau, George R., Ventura, Calif. Conveyer for fruit. No. 1,429,093; Sept. 12.
Parker, John W., Barrington, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Clamp. No. 1,428,608; Sept. 12.
Parker, Leslie O., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Spark-gap apparatus. No. 1,428,656; Sept. 12.
Parker, William M. (See Harris, Oran P., assignor.)
Parrish, Rial T. (See Gingerick, Kent S., assignor.)
Parrish, Rial T. (See Schlagel, Alfred M., assignor.)
Parsons, Charles A., Newcastle-upon-Tyne, and S. S. Cook, Wallsend-upon-Tyne, England; said Cook assignor to said Parsons. Packing ring for rotating bodies. No. 1,428,975; Sept. 12.
Patrick, F. A., & Company. (See Witherell, Earl M., assignor.)
Patrick, James C. (See Davisson, Harry W., assignor.)
Patten Manufacturing Company. (See Upton, F. B., and Kirk, assignors.)
Paulero, Louis, assignor to American Electric Tool Company, Incorporated, Petersburg, Va. Electric hammer. No. 1,429,094; Sept. 12.
Paulson, George I. (See Brown, A. J., and Paulson.)
Payne, Frank Ed, Glencoe, Ill. Metallic packing. No. 1,428,976; Sept. 12.
Payne, Marshall J., assignor to The Payne Valve Corporation, Staunton, Va. Tire valve. No. 1,429,047; Sept. 12.
Payne, Thomas F., Pittsburgh, Pa. Automobile radiator. No. 1,428,901; Sept. 12.
Payne Valve Corporation, The. (See Payne, Marshall J., assignor.)
Peden, Oreal D., Roscoe, Tex. Stalk cutter. No. 1,429,163; Sept. 12.
Peerson, James M., Huntsville, Ala. Double-box cotton press. No. 1,428,610; Sept. 12.
Peerson, James M., Florence, Ala. Tramper. No. 1,428,609; Sept. 12.
Pension, Thomas J. (See Wright, G. W., and Pension.)
Pension, Thomas M., et al. (See Wright, G. W., and Pension, assignors.)
Pernin, René. (See Lambert, E., and Pernin.)
Persapol Gesellschaft mit beschrankter Haftung. (See Stiepel, Carl, assignor.)
Pesusich, Roko P., New York, N. Y. Auto brake. No. 1,428,802; Sept. 12.
Peters, Frank M., and W. H. Hungerford, assignors to Peters Machinery Company, Chicago, Ill. Sealing or labeling machine. No. 1,429,095; Sept. 12.
Peters Machinery Company. (See Peters, F. M., and Hungerford, assignors.)
Petersen, Hans, Davenport, Iowa. Sectional piston for engines. No. 1,428,656; Sept. 12.
Pethick, Philip C., New Haven, Conn. Calendar. No. 1,429,096; Sept. 12.
Petri, Gunther H., Boston, Mass. Mixing machine. No. 1,428,704; Sept. 12.
Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Mechanism for operating sliding doors. No. 1,428,555; Sept. 12.
Phillips, Francis V., deceased; K. Phillips, administratrix, Orlando, Fla. Dado and miter attachment for saw tables. No. 1,429,097; Sept. 12.
Phillips, Kate, administratrix. (See Phillips, Francis V.)
Pickens, Julius A., Easley, S. C. Can for preserves. No. 1,428,705; Sept. 12.
Pickering, Edwin G., Dayton, Ohio. Combination ticket and identifying means. No. 1,429,098; Sept. 12.
Pillow, John R., Butler, assignor to A. B. Collner, Clarion, Pa. Traveling automobile turntable. No. 1,428,977; Sept. 12.
Pitts, William C., and R. H. Haines, Memphis, Tenn. Cotton sampler. No. 1,428,978; Sept. 12.
Pittsburgh Plate Glass Company. (See Dickey, Cromwell B., assignor.)
Pivar, George, assignor to Frankenthaler & Frankenthaler, New York, N. Y. Display cabinet. No. 1,428,857; Sept. 12.
Plesec, Steve, San Francisco, Calif. Combination chair. No. 1,428,804; Sept. 12.
Porter, Finley B., Port Jefferson, N. Y., assignor to Knight American Patents Company, Chicago, Ill. Internal-combustion engine. No. 1,428,858; Sept. 12.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Automobile clock. No. 1,428,902; Sept. 12.
Porterfield, John C., Clairsville, Ohio. Shifting hitch. No. 1,428,903; Sept. 12.
Powow Manufacturing Company. (See Wells, George W., assignor.)
Preston, Herbert J., Sydney, New South Wales, Australia. Electrical device for heating liquids and the like. No. 1,428,803; Sept. 12.
Prichard, Robert H., Los Angeles, Calif. Luggage carrier. No. 1,428,706; Sept. 12.
Prost, John P., St. Louis, Mo. In-a-wall furniture. No. 1,428,707; Sept. 12.
Purdy, Wilbur F., Chinook, Mont. Sickle. No. 1,428,657; Sept. 12.
Purposed Mind Development Security Association of the World, The. (See McGahan, Frederick L., assignor.)
Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Dual vehicle wheel. No. 1,428,556; Sept. 12.
Putt, Edward D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-stripping machine. No. 1,428,979; Sept. 12.
Rahr, Maximilian, jr., Manitowoc, Wis. Vehicle curtain. No. 1,428,709; Sept. 12.
Rahr, Maximilian, jr., Manitowoc, Wis. Vehicle quarter curtain. No. 1,428,708; Sept. 12.
Ramsay, Ethan T., Reading, Pa. Dirigible headlight for motor vehicles. No. 1,428,559; Sept. 12.
Ramsey, John T., Roanoke, Va. Internal-combustion engine. No. 1,429,164; Sept. 12.
Rand, Homer S., Plainville, Kans. Gate. No. 1,428,904; Sept. 12.
Rasch, Ludvik, Christiania, Norway. Indicator of speed for centrifugal separators. No. 1,428,905; Sept. 12.
Rasmusen, Lorence S., and H. B. Carlson, Davenport, Iowa. Lap. No. 1,428,558; Sept. 12.
Rasmussen, Alvin C., and C. G. Schmid, assignors to Insley Manufacturing Company, Indianapolis, Ind. Hoisting apparatus. No. 1,428,906; Sept. 12.
Rasmussen, Alvin C. (See Insley, W. H., and Rasmussen.)
Rawlings Mfg. Co. (See Whitley, William P., assignor.)
Ray Bros. Corporation. (See Ray, Thomas and J. R., assignors.)
Ray, Joshua R. (See Ray, Thomas and J. R.)
Ray, Thomas and J. R., Manistee, Mich., assignors to Ray Bros. Corporation, New York, N. Y. Vacuum apparatus. No. 1,428,557; Sept. 12.
Raynor, William E., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing machines. No. 1,428,980; Sept. 12.
Read, George B., Bloomington, Ill. Grain crib. No. 1,428,710; Sept. 12.
Redfield, Snowden B., Baston, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor unloader. No. 1,428,981; Sept. 12.
Reece, John, assignor to Reece Transmission Company, Boston, Mass. Variable-speed transmission. No. 1,428,659; Sept. 12.
Reece, John, assignor to Reece Transmission Company, Boston, Mass. Variable-speed transmission. No. 1,428,660; Sept. 12.
Reece Transmission Company. (See Reece, John, assignor.)
Reese, Franklin T., Pittsburgh, Pa. Ratchet wrench. No. 1,428,982; Sept. 12.
Reigh, Clarence J., Juniata, Pa. Motor vehicle. No. 1,428,907; Sept. 12.
Reinschmidt, Frank, Crookston, Minn. Towing device. No. 1,428,860; Sept. 12.
Renner, Harold G., Detroit, Mich. Carburetor. No. 1,428,558; Sept. 12.
Rennerfelt, Ivar, Djursholm, Sweden. Electric furnace. No. 1,428,908; Sept. 12.

Rennerfelt, Ivar, Djursholm, Sweden. Electric furnace. No. 1,428,909; Sept. 12.
Rennerfelt, Ivar, Djursholm, Sweden. Operating electric furnaces. No. 1,428,910; Sept. 12.
Reynolds, Lyman G., and A. L. Holman, Toronto, Ontario, Canada. Wrench. No. 1,428,805; Sept. 12.
Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
Richardson, Robert N., Los Angeles, Calif. Air cooler. No. 1,428,661; Sept. 12.
Rilleau, Francois M., New York, N. Y. Sustaining element or feather for flying-machine wings. No. 1,428,559; Sept. 12.
Robinson, Wallace W., Portland, Me. Strap and belt tightening buckle. No. 1,428,560; Sept. 12.
Robinson, William V., assignor to The Independent Stove Company, Owosso, Mich. Combination gas and coal range. No. 1,429,099; Sept. 12.
Rockford Tool Company. (See Sundstrand, Gustaf D., assignor.)
Rockstroh, Max, Klein-Sedlitz, near Pirna, Germany. Device for measuring and recording the power consumption of machines. No. 1,429,165; Sept. 12.
Rodger Ballast Car Co. (See Neikirk, J. O., assignor.)
Roehrig, Bernard F., Pasadena, Calif. Jar seal and applying the same. No. 1,428,711; Sept. 12.
Roemmer, Isaac A., Brooklyn, N. Y. Guide. No. 1,429,166; Sept. 12.
Rose, William H., Jersey City, N. J. Cleaning device. No. 1,428,806; Sept. 12.
Rose, William H., Jersey City, N. J. Cleaning device. No. 1,428,807; Sept. 12.
Ross, David E., assignor to Ross Gear and Tool Company, Lafayette, Ind. Differential gear. No. 1,429,100; Sept. 12.
Ross, David E., assignor to Ross Gear and Tool Company, Lafayette, Ind. Steering gear. No. 1,429,101; Sept. 12.
Ross, David E., assignor to Ross Gear & Tool Company, Lafayette, Ind. Steering gear. No. 1,429,102; Sept. 12.
Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Steering gear. No. 1,429,103; Sept. 12.
Ross Gear & Tool Company. (See Ross, David E., assignor.)
Rote, Charles V., assignor of one-half to E. W. Brown, Lancaster, Pa. Pull mechanism for railway cars. No. 1,428,983; Sept. 12.
Roy, Edward H., Louisville, Ky. Refrigerator. No. 1,429,104; Sept. 12.
Royal Typewriter Company. (See Utz, Anthony, assignor.)
Rudy, Allen W., Dalton, Ohio. Padlock protector. No. 1,429,105; Sept. 12.
Ryan, Walter D., Schenectady, N. Y. Vehicle headlight. No. 1,428,662; Sept. 12.
Ryon, Edward A., Pittsburgh, assignor to F. W. Simens, Wellsboro, Pa. Glass-grinding machine. No. 1,429,106; Sept. 12.
Safety Car Heating & Lighting Company. (See Hulse, George E., assignor.)
Sage, George W., jr., Port Chester, N. Y. Bicycle. No. 1,429,107; Sept. 12.
Sandadge, Garnet C., et al. (See Legate, William A., assignor.)
Sanders, James E., Chattanooga, Tenn. Thrashing machine. No. 1,428,911; Sept. 12.
Sanders, John H. (See Sanders, Walter J., assignor.)
Sanders, Walter J., assignor of one-half to J. H. Sanders, Chicago, Ill. Pipe cutter. No. 1,428,712; Sept. 12.
Schachtman, Morris, London, England. Motor direction indicator. No. 1,428,663; Sept. 12.
Schaefer, John, assignor of one-half to W. Steele, Chicago, Ill. Engine starter. No. 1,428,912; Sept. 12.
Schanck, Francis R. (See Olberg, Charles R., assignor.)
Schirer, Arnold, New York, N. Y. Hair curler. No. 1,429,167; Sept. 12.
Schaumburger, Louis and H. H. Clark, Terre Haute, Ind. Furnace-door pedal. No. 1,429,108; Sept. 12.
Schiefele, Oliver S., Conestogo, Ontario, Canada. Method for preventing the undermining of water-washed banks. No. 1,428,808; Sept. 12.
Schlagel, Alfred M., Montgomery County, near Dayton, assignor to R. T. Parrish, Dayton, Ohio. Hoisting and locking mechanism for plows. No. 1,429,048; Sept. 12.
Schmid, Carl G. (See Rasmussen, A. C., and Schmid.)
Schmidlin, Julius, Bergen, near Frankfort-on-the-Main, Germany, assignor to L. Cassella & Co. Gesellschaft mit beschrankter Haftung. Manufacture or production of chlorinated products of toluene and dyestuffs therefrom. No. 1,428,984; Sept. 12.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie, Paris, France. Trail-carriage guns mounted on endless tracks for varying the height of the line of fire of the gun. No. 1,429,109; Sept. 12.
Schoenhard, William F., Kansas City, Mo. Automobile. No. 1,428,713; Sept. 12.
Schols, Carl, Charleston, W. Va. Mine car. No. 1,428,985; Sept. 12.
Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Aeroplane motor fuel. No. 1,428,913; Sept. 12.
Schroeder, Carl P., et al. (See Finney, James J., assignor.)
Schultz, Emile J. A., Paris, France. Process and apparatus for determining the position of an inaccessible point. No. 1,428,861; Sept. 12.
Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,428,914; Sept. 12.
Schürmann, Richard, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with laterally-adjustable barrel. No. 1,428,611; Sept. 12.
Schuster, Karl R., New York, N. Y. Metal bar of curved cross section. No. 1,428,561; Sept. 12.
Schwamb, Peter and P. Eberhardt, Arlington, Mass. Aerofoil. No. 1,428,714; Sept. 12.
Schwantes, Julius, assignor to The Palmolive Company, Milwaukee, Wis. Shaving-soap container. No. 1,428,562; Sept. 12.
Schwartz, Harry A., Defiance, Ohio. Casting. No. 1,428,987; Sept. 12.
Schweinberg, George W., Brooklyn, N. Y., assignor to U. S. Electro Galvanizing Company. Cleaning and plating apparatus. No. 1,428,563; Sept. 12.
Schweiz Gesellschaft für Tullindustrie A.-G. (See Cavigelli, Emanuel, assignor.)
Scintilla. (See Steiner, Gottlieb, assignor.)
Scott, Frank V., Elizabeth City, N. C. Bean harvester. No. 1,429,168; Sept. 12.
Seaholm, John P., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Latch lever. No. 1,428,988; Sept. 12.
Seavey, Haller D., Greenfield, Mass., assignor to Maxwell Engineering and Manufacturing Company, New York, N. Y. Insulator. No. 1,429,110; Sept. 12.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. No. 1,429,169; Sept. 12.
Selby, Paul. (See Nettle, W. E., Selby, Blythe, and Holman.)
Selfridge, Harrison A., New Haven, Conn. Paper-folding machine. No. 1,429,049; Sept. 12.
Semsleder, Oskar, Vienna, Austria. Clamping device for artificial arms. No. 1,429,111; Sept. 12.
Serene, Paul, assignor of one-third to L. F. Donnell and one-third to B. P. Higby, Youngstown, Ohio. Manicure device. No. 1,428,564; Sept. 12.
Serene, Paul, assignor of one-third to L. F. Donnell and one-third to B. P. Higby, Youngstown, Ohio. Power-operated razor. No. 1,428,565; Sept. 12.
Severance, Edward A., Burlington, Vt. Electroplating barrel and catcher. No. 1,429,170; Sept. 12.
Seweryn, Paul, New York, N. Y. Lock. No. 1,428,915; Sept. 12.
Seymer, Ervin A. (See Gase, G. A., and Seymer.)
Shaw, Ira D., Boston, Mass. Ball-and-socket joint. No. 1,428,715; Sept. 12.
Sheaffer, Robert C., Lancaster, Pa. Composition for building blocks. No. 1,428,811; Sept. 12.
Sheehy, Leonard W. (See Sheehy, William E., assignor.)
Sheehy, William E., assignor of one-half to L. W. Sheehy, Newfields, N. H. Power hammer. No. 1,428,612; Sept. 12.
Sheer, Eugene, Lincoln, Ill. Auto luggage carrier. No. 1,429,112; Sept. 12.
Sheets, Harry A., jr., New York, N. Y. Vulcanizer igniter. No. 1,428,862; Sept. 12.
Shipman, Abraham L., Springfield, Ill. Broom brace. No. 1,429,171; Sept. 12.
Shoemaker, Lee, Portland, Oreg. Umbrella lock. No. 1,428,810; Sept. 12.
Shur On Optical Co. (See Leytham, Thomas, assignor.)
Siemens, Fred W. (See Ryon, Edward A., assignor.)
Simmons Company. (See Bayer, Matthew F., assignor.)
Simon, Meyer A., St. Louis, Mo. Combination carburetor choker and switch mechanism. No. 1,428,812; Sept. 12.
Simpson, William E. (See Bee, W. E., and Simpson.)
Simpson, William E., assignor to Palmer-Bee Company, Detroit, Mich. Trolley. No. 1,428,613; Sept. 12.
Sinclair Moliter Corporation. (See Neuteboom, Beudewijn B., assignor.)
Sisson, Vinton E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. End reenforcement for railway cars. No. 1,428,614; Sept. 12.
Slatten, William H., Chicago, Ill. Car roof. No. 1,428,989; Sept. 12.
Sloan, Robert A., Oxton, England. Objective changer or the like for microscopes. No. 1,428,990; Sept. 12.
Slough, Thomas M., New Orleans, La. Process of and apparatus for the mollification and disintegration of agglutinate elements. No. 1,428,991; Sept. 12.
Slyt Edge Company. (See Krause, Lou, assignor.)
Smalley, William W., Chicago, Ill. Draft regulator. No. 1,428,664; Sept. 12.
Smith, A. O., Corporation. (See Smith, R. S., and Burgess, assignors.)
Smith, Adam L., Youngstown, Ohio. Hot-air furnace. No. 1,428,665; Sept. 12.
Smith, Earl D., Delphi, Ind. Can-closing machine. No. 1,428,992; Sept. 12.
Smith, Herbert M., Farmington, Conn. Electrical connection. No. 1,428,863; Sept. 12.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,864; Sept. 12.
Smith, Otto R., Glen Morris, N. Y. Saw guard. No. 1,428,986; Sept. 12.

Smith, Reuben S., and E. W. Burgess, assignors to A. O. Smith Corporation, Milwaukee, Wis. Machine for pickling metal plates and blanks. No. 1,428,716; Sept. 12.

Smith, William W., Hawthorne, Calif. Incubator. No. 1,428,813; Sept. 12.

Smith, William A., Lynn, Mass. Core making. No. 1,428,993; Sept. 12.

Snideman, Clora J., assignor to Wabash Sanitary Company, Wabash, Ind. Detachable tray for high chairs. No. 1,428,916; Sept. 12.

Snyder, Frank F., Torrance, Calif. Belt splice. No. 1,428,917; Sept. 12.

Somers, Christopher C., Bend, Oreg. Headlight. No. 1,429,113; Sept. 12.

Sopenoff, Samuel L., and M. Katcher, Brooklyn, N. Y. Electrical outlet box. No. 1,429,172; Sept. 12.

Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Apparatus for and method of producing charges of molten glass. No. 1,428,994; Sept. 12.

Speer, William C., Wright, Kans. Snowplow. No. 1,428,615; Sept. 12.

Spencer, Charles, Hamilton, Ontario, Canada. Sanding device. No. 1,428,814; Sept. 12.

Spieth, Edward G., Amherst, Nebr. Mouse and rat trap. No. 1,428,918; Sept. 12.

Springefeld, Otto, and L. Czerny, Berlin, Germany. Method of and apparatus for taking and reproducing cinematographic pictures with musical accompaniment. No. 1,428,995; Sept. 12.

Stafford Company, The. (See Carlson, Carl A., assignor.)

Standard Oil Company. (See Brincker, J. E., and McNeil, assignors.)

Standard Steel Car Company. (See Anderson, Harry T., assignor.)

Stangl, Joseph, West Bend, Wis. Heater for stitching machines. No. 1,428,717; Sept. 12.

Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutator cylinder. No. 1,428,865; Sept. 12.

Starkey, Rufus K., Hennessey, Okla. Bushing remover. No. 1,428,815; Sept. 12.

Starrett, Laroy S., assignor to Athol Machine Company, Athol, Mass. Vise. No. 1,428,996; Sept. 12.

Statham, Albert E., Birmingham, England. Washing machine. No. 1,428,919; Sept. 12.

Steam Pressing Iron Company. (See Hoffman, Louis, assignor.)

Steele, William. (See Schaefer, John, assignor.)

Steiner, Gottlieb, assignor to Firm Scintilla, Solothurn, Switzerland. Short-circuit terminal for the magneto-electric ignition apparatus of internal-combustion engines. No. 1,428,666; Sept. 12.

Stern, Bernard, New York, N. Y. Automobile headlight. No. 1,429,173; Sept. 12.

Stiepel, Carl, Berlin, assignor to Persapol Gesellschaft mit beschrankter Haftung, Hanover, Germany. Conversion of fatty acids with several double linkages or of their glycerides into oleic-acidlike fatty acids or their soaps. No. 1,429,114; Sept. 12.

Stokes, William E., Rockville Center, assignor to United States Processes, Inc., New York, N. Y. Recovering vanadium. No. 1,428,616; Sept. 12.

Stroud, Lamont H., Sheridan, Wyo. Nondisplaceable grease cup and bushing anchor. No. 1,429,115; Sept. 12.

Sturtevant, B. F., Company. (See de Clamecy, Philippe, assignor.)

Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)

Sturtevant, Paul A., Chicago, Ill. Radiator. No. 1,428,718; Sept. 12.

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for manufacturing acid phosphate or superphosphate. No. 1,428,920; Sept. 12.

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for manufacturing acid phosphate or superphosphate. No. 1,428,921; Sept. 12.

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for manufacturing acid phosphate or superphosphate. No. 1,428,922; Sept. 12.

Submarine Devices Corporation. (See Ebeling, Frederick, W., assignor.)

Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Nitrocellulose composition. No. 1,429,174; Sept. 12.

Suman, John R., Houston, Tex., assignor to Lucey Manufacturing Corporation of Tennessee, Chattanooga, Tenn. Pumping apparatus. No. 1,428,866; Sept. 12.

Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Lathe. No. 1,428,816; Sept. 12.

Superior Iron Works Company. (See Zimmerman, Frank R., assignor.)

Superior Steel Castings Company. (See Gilmore, William R., assignor.)

Swan, Herbert H., Grand Rapids, Mich., assignor to Grand Rapids Tire and Rubber Corporation. Tire. No. 1,428,817; Sept. 12.

Sway, Henry. (See Liskow, Sigmund, assignor.)

Sykes, Adrian F., New Barnet, England. Manufacture of sound records. No. 1,428,819; Sept. 12.

Sykes, Adrian F., New Barnet, England. Production of sound records. No. 1,428,818; Sept. 12.

Sylvester, Seymour, Brooklyn, N. Y. Hand screw. No. 1,429,050; Sept. 12.

Taylor, Herbert C., Greensburg, Ind. Oven. No. 1,428,867; Sept. 12.

Taylor, Sidney, assignor to E. P. Monroe, Galion, Ohio. Fastener for vault closures. No. 1,429,116; Sept. 12.

Tell Machine & Tool Co., The. (See Niedermayer, George, assignor.)

Teller, Washington D., Wasepi, Mich. Cushion tire. No. 1,428,719; Sept. 12.

Terry, Merrill H., Columbus, Ohio. Lantern. No. 1,428,923; Sept. 12.

Thaw, Jack, Baltimore, Md. Shopping bag. No. 1,428,617; Sept. 12.

Thomas, Carl C., Baltimore, Md. Supercharger for internal-combustion engines. No. 1,428,924; Sept. 12.

Thomas, Carl C., Baltimore, Md. Supercharger for internal-combustion engines. No. 1,428,925; Sept. 12.

Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Bolt-retaining device. No. 1,429,117; Sept. 12.

Thomas, Horace T., Lansing, Mich. Automobile lock. No. 1,428,720; Sept. 12.

Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,428,997; Sept. 12.

Thompson, Harold E., Clendenin, W. Va., assignor to Carbide & Carbon Chemicals Corporation. Treating natural gas and product thereof. No. 1,429,175; Sept. 12.

Thomson, David, London, England. Extraction of proteids and lactose from whey. No. 1,428,820; Sept. 12.

Thurlow, Victor J. (See Wilson, Melven G., assignor.)

Timmerman, Frederic, New York, N. Y. Spring compressor. No. 1,428,566; Sept. 12.

Timmons, John S., Yonkers, N. Y. Combined telephone receiver and transmitter. No. 1,428,567; Sept. 12.

Todd Shipyards Corporation. (See McDonald, J., and Haynes, assignors.)

Toennes, Richard, Boonville, Mo. Smoke-ring blower. No. 1,429,176; Sept. 12.

Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Testing and adjusting apparatus for cord circuits. No. 1,428,667; Sept. 12.

Towne, Earle A., assignor to Union Steel Products Co., Ltd., Albion, Mich. Conveyor. No. 1,428,721; Sept. 12.

Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Trolley. No. 1,429,118; Sept. 12.

Tozier, George H., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for nitric-acid purification. No. 1,429,177; Sept. 12.

Trace, Russell A., assignor to Buckeye Iron & Brass Works, Dayton, Ohio. Valve for cake-forming presses. No. 1,428,998; Sept. 12.

Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, jr., Gloucester, Mass. Steering mechanism. No. 1,428,568; Sept. 12.

Trevoux, Laurent E. M., assignor to la Société Anonyme de Produits Chimiques Etablissements Malétra, Petit-Quevilly, France. Production of acetaldehyde from acetylene. No. 1,428,668; Sept. 12.

Trott, Frank. (See Barrett, A. M., Childress, and Trott.)

Truckenbrodt, John, and N. C. Jensen, Fort Dodge, Iowa. Distributor for spraying animals. No. 1,429,206; Sept. 12.

Turner, Albert. (See Dunbar, H. W., and Turner.)

Tygard, Elizabeth A. (See Tygard, James W. and E. A.)

Tygard, James W. and E. A., London, England. Gradually variable power-transmission gear or drive. No. 1,428,999; Sept. 12.

Tyler, W. S., Company, The. (See Dishro, Roger W., assignor.)

U. S. Electro Galvanizing Company. (See Schweinsberg, George W., assignor.)

U. S. Industrial Alcohol Co. (See Hayes, Albert, assignor.)

U. S. Industrial Alcohol Co. (See Schreiber, Walter T., assignor.)

U. S. Industries, Inc. (See Johnson, Carl E., assignor.)

Ueckert, John R., Dallas, Tex. Ring chuck. No. 1,428,868; Sept. 12.

Underwood Typewriter Company. (See Bates, Harry, assignor.)

Underwood Typewriter Company. (See Helmond, William F., assignor.)

Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)

Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)

Union Special Machine Company. (See Raynor, William E., assignor.)

Union Steel Products Co. (See Towne, Earle A., assignor.)

Union Switch & Signal Company, The. (See Howard, Lemuel F., assignor.)

Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)

United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)

United States Gypsum Company. (See Birdsey, Charles R., assignor.)

United States Gypsum Company. (See Brookby, Harry E., assignor.)

United States Processes, Inc. (See Stokes, William E., assignor.)

Upton, Frank B., and W. C. Kirk, assignors to Patten Manufacturing Company, Chattanooga, Tenn. Water circulator for water-cooled engines. No. 1,428,722; Sept. 12.

Urness, Andrew A., Alexandria, Minn. Sign with interchangeable characters. No. 1,428,723; Sept. 12.

Utz, Anthony, Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Paper-feed pressure device for typewriting machines. No. 1,428,569; Sept. 12.

Valentine, Fredrick A. and R. D., Minneapolis, Minn. Garden tractor. No. 1,429,178; Sept. 12.

Valentine, Robert D. (See Valentine, Fredrick A. and R. D.)

Van Camp Packing Company. (See Lemon, Robert L., assignor.)

Van Orman, Bert L., assignor to L. A. Young Industries, Inc., Detroit, Mich. Intermittent driving mechanism. No. 1,428,724; Sept. 12.

Varble, Paul L., Carrollton, Ill. Valve-spring compressor. No. 1,429,000; Sept. 12.

Vaughn, Patrick H., Morris, Minn. Grain separator. No. 1,428,926; Sept. 12.

Vedovelli, Edouard, assignor to La Societe La Metallurgique Electrique, Paris, France. Extra-quick-acting circuit breaker. No. 1,428,821; Sept. 12.

Vera, Edward A., Chicago, Ill. Chauffeur's identification-tag holder. No. 1,429,119; Sept. 12.

Villaret, Gustave E., New York, N. Y. Electric-light fixture. (Reissue.) No. 15,455; Sept. 12.

Vinik, Matthias J., New York, N. Y. Intermittent-feeding mechanism. No. 1,428,927; Sept. 12.

Vis, Gerhard N., Paris, France. Transforming alkali-metal monochromates into bichromates or chromic acid. No. 1,429,001; Sept. 12.

Viscose Company, The. (See Clayton, James, assignor.)

Vittles Development Corporation. (See Dieter, William, assignor.)

Vongehr, Kurt, Tilsit, Germany. Apparatus for collecting rain water for domestic and other purposes. No. 1,429,051; Sept. 12.

Wabash Sanitary Company. (See Snideman, Clora J., assignor.)

Wagner, Fred W., Pittsburgh, Pa. Purification of waste liquid. No. 1,428,618; Sept. 12.

Walker, Viola K., administratrix. (See McGahan, Frederick L.)

Walling, Archie L., Akron, Ohio. Washing-machine agitator. No. 1,428,822; Sept. 12.

Walters, Edward H., assignor to Lite Products Corporation, Chicago, Ill. Window-sash fastener. No. 1,428,725; Sept. 12.

Ward, Stephen S., San Diego, Calif. Disk-record cabinet. No. 1,429,052; Sept. 12.

Ward, William H., Ashtabula, Ohio. Wrench. No. 1,429,053; Sept. 12.

Warren, Erskine D. (See Knox, William J., assignor.)

Warren, William C., and G. L. Kier, Philadelphia, Pa., assignors to S. L. Allen & Co., Inc. Agricultural implement. No. 1,429,054; Sept. 12.

Warth, Nathaniel G., Gallipolis, Ohio. Pneumatic tire. No. 1,428,726; Sept. 12.

Wasserman, Fred C., Melrose Park, and E. Kendall, Maywood, Ill. Protective device for automobile batteries and generators. No. 1,428,727; Sept. 12.

Watson, John D., Lake City, Calif. Stadia-rod attachment. No. 1,428,669; Sept. 12.

Wayne, Herbert N., Washington, D. C. Fibrillous tire. No. 1,428,571; Sept. 12.

Wayne, Herbert N., Washington, D. C. Self-sealing inner tube for automobile tires. No. 1,428,570; Sept. 12.

Webb, William R., assignor to Eastman Kodak Company, Rochester, N. Y. Treating films. No. 1,429,179; Sept. 12.

Weber, Wilhelm, assignor to Firm Gewerkschaft Hansbach II, Wiesbaden, Germany. Flushing apparatus. No. 1,428,728; Sept. 12.

Weigel, Philip A., Riverton, N. J. Means for converting lace shoes to button shoes. No. 1,428,619; Sept. 12.

Weinberg, William, Chicago, Ill. Tester for electrical devices. No. 1,429,002; Sept. 12.

Weinstein, Bernard, Los Angeles, Calif. Vehicle direction indicator. No. 1,428,729; Sept. 12.

Wells, George W., assignor to Powow Manufacturing Company, Amesbury, Mass. Window regulator. No. 1,429,120; Sept. 12.

Wernicke-Hatcher Pump Company. (See Hatcher, William A., assignor.)

Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)

Westinghouse Electric and Manufacturing Company. (See Candee, A. H., and Hibbard, assignors.)

Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)

Westinghouse Electric and Manufacturing Company. (See Houston, Harold A., assignor.)

Westinghouse Electric and Manufacturing Company. (See Parker, Leslie O., assignor.)

Westinghouse Electric and Manufacturing Company. (See Starker, Charles W., assignor.)

Westinghouse Electric and Manufacturing Company. (See Woods, George M., assignor.)

Westinghouse Electric Products Company. (See Woodson, James C., assignor.)

Weston, Edward B., Dayton, Ohio. Display rack. No. 1,428,730; Sept. 12.

Wettengel, Charles A., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Condenser. No. 1,429,214; Sept. 12.

Whaley, William B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Automatic safety valve. No. 1,428,920; Sept. 12.

Wharton, William, jr., & Company Incorporated. (See Angerer, Victor, assignor.)

Whitaker, Norman T., New York, N. Y., assignor of one-fourth to H. F. Löwenstein, Washington, D. C. Telephone-exchange system. No. 1,429,003; Sept. 12.

Whiting Corporation. (See Townsend, John S., assignor.)

Whitley, William P., assignor to Rawlings Mfg. Co., St. Louis, Mo. Thigh guard. No. 1,428,731; Sept. 12.

Whitten, Stahl A. (See Ballman, Edwin C., assignor.)

Wick, Olaf M., Valley City, N. Dak. Dumping truck. No. 1,429,004; Sept. 12.

Wilber, Carl L., assignor to The Jefferson Forge Products Co., Detroit, Mich. Method and apparatus for balancing crank shafts and the like. No. 1,428,620; Sept. 12.

Wilcox, William K., Manhattan, Nev. Placer machinery. No. 1,429,005; Sept. 12.

Wilharm, Adolph J., Ashland, Wis. Dust collector. No. 1,429,006; Sept. 12.

Wilkinson, Joseph R., E. A. Barnard, and L. E. Booth, Anaconda, Mont., assignors of forty-two and one-half per cent to said Wilkinson, forty-two and one-half per cent to said Barnard, and fifteen per cent to said Booth. Dewatering and settling tank feeder. No. 1,428,929; Sept. 12.

Williams, Charles W., jr., Montclair, N. J. Automatic safety fender for motor vehicles. No. 1,429,055; Sept. 12.

Williams, Joseph N., Pukeatua, and H. C. Middleton, Te Awamutu, New Zealand. Vacuum-operated cow milker. No. 1,428,670; Sept. 12.

Williams, William M., assignor of one-half to W. W. Allington, Reno, Nev. Gate valve for sand and gravel dumps. No. 1,428,732; Sept. 12.

Willis, Herman R., and R. M., Chanute, Kans. Oil-well pump jack. No. 1,428,671; Sept. 12.

Willis, Reuben M. (See Willis, Herman R. and R. M.)

Wilson, Ezekiel J., East Greenbush, assignor to F. C. Huyck & Sons, Rensselaer, N. Y. Loom. No. 1,428,572; Sept. 12.

Wilson, John A., Kansas City, Kans., assignor to The Wilson Slaughtering Device Co., Kansas City, Mo. Method and apparatus for removing blood from animals in process of slaughtering. No. 1,428,672; Sept. 12.

Wilson, Lyndon F., Chicago, Ill. Apparatus for molding compound. No. 1,428,733; Sept. 12.

Wilson, Melven G., assignor of one-half to V. J. Thurlow, Seattle, Wash. Trolley. No. 1,429,007; Sept. 12.

Wilson Slaughtering Device Co., The. (See Wilson, John A., assignor.)

Winter, Wilhelm, and G. Immand, Essen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,429,056; Sept. 12.

Winther Motors, Inc. (See Neuteboom, Boudewijn B., assignor.)

Wion, George H., Melbourne, Victoria, Australia, and A. E. Hudd, Liverpool, England. Electrical point detector for railways. (Reissue.) No. 15,456; Sept. 12.

Wise-McClung Manufacturing Company, The. (See Wise, W. J., and Adams, assignors.)

Wise, Robert P., Tulsa, Okla. Heating apparatus. No. 1,429,121; Sept. 12.

Wise, William J., and T. O. Adams, assignors to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio. Vacuum cleaner. No. 1,428,734; Sept. 12.

Witherell, Earl M., assignor of one-half to F. A. Patrick & Company, Duluth, Minn. Yarn stand for knitting machines. No. 1,428,573; Sept. 12.

Woehr, Theodor, St. Louis, Mo. Coaster vehicle. No. 1,428,735; Sept. 12.

Wojcicki, Frank, Bayonne, N. J. Perambulator. No. 1,428,736; Sept. 12.

Wojnarski, John, Chicago, Ill. Window-washing apparatus. No. 1,428,823; Sept. 12.

Woodard, William E., Forest Hills, N. Y., assignor to Franklin Railway Supply Company. Truck for railway vehicles. No. 1,429,008; Sept. 12.

Woods, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective device. No. 1,428,869; Sept. 12.

Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Oven. No. 1,428,870; Sept. 12.

Woodworth, Joseph V., Camp Kearney, Calif. Nut lock. No. 1,429,180; Sept. 12.

Woolley, Ernest L., Providence, R. I. Oil-burning apparatus. No. 1,428,574; Sept. 12.

Woolley, William D. (See Jenkins, W. P., and Woolley.)

Worcester, Harold A., Troy, Ohio, assignor to Insley Manufacturing Company, Indianapolis, Ind. Multiple-section dump body. No. 1,428,930; Sept. 12.

Wright, George W., and T. J. Pension, assignors of three-eighths to said Wright, three-eighths to said T. J. Pension, and one-fourth to T. M. Pension, Philadelphia, Pa. Locking device for automobiles. No. 1,429,181; Sept. 12.

Wyckoff, Andrew D., Oak Park, Ill. Weather-protected oil-dispensing apparatus. No. 1,428,737; Sept. 12.
Wynne, Mary, administrator. (See Wynne, Valentine C.)
Wynne, Valentine C., deceased, Albany, N. Y., M. Wynne, administratrix. Electromagnetic contact device. No. 1,429,009; Sept. 12.
Yoakam, David, Liberty Township, Warren County, Iowa. Spring wheel. No. 1,428,575; Sept. 12.
Young, L. A., Industries, Inc. (See Van Orman, Bert L., assignor.)
Youngman, Maximillian R., San Diego, Calif. Muting device for tuning pianos. No. 1,428,738; Sept. 12.
Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Picker stick check for looms. No. 1,428,739; Sept. 12.
Zellstofffabrik Waldhof. (See Clemm, H., and Hunglelter, assignors.)
Zeuthen, Otto L., Bagsvaerd, Denmark. Machine for digging potatoes. No. 1,429,010; Sept. 12.
Zimmerman, Frank R., assignor to Superior Iron Works Company, Superior, Wis. Boat crane. No. 1,428,809; Sept. 12.
Zinke, Max. (See Hackman, William C., assignor.)
Zwillinger, Bernhard, deceased, New York, N. Y.; K. Zwillinger, administratrix. By-product coke oven with sole firing. No. 1,428,621; Sept. 12.
Zwillinger, Bernhard, deceased, New York, N. Y.; K. Zwillinger, administratrix. Sole-heated coke oven. No. 1,428,622; Sept. 12.
Zwillinger, Klara, administratrix. (See Zwillinger, Bernhard.)

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Ansonia Clock Co. (See Cowles, Russel A., assignor.)
Beckenstein, Barnett, Brooklyn, N. Y. Sweater. No. 61,459; Sept. 12.
Benison, John M., Camden, N. J. Finger ring. No. 61,460; Sept. 12.
Bergougnan Rubber Corporation. (See Carter, John N., assignor.)
Brunswick-Balke-Collender Company, The. (See Hine, Cicero, assignor.)
Card, Edson B., New York, N. Y. Doll. No. 61,461; Sept. 12.
Carter, John N., Trenton, N. J., assignor to Bergougnan Rubber Corporation, Wilmington, Del. Nonskid tire. No. 61,462; Sept. 12.
Cheramy, Inc. (See Miles, Frank J. M., assignor.)
Cohan-Epner Co., Inc. (See Kronburger, Stephen, assignor.)
Cowles, Russel A., New York, assignor to Ansonia Clock Co., Brooklyn, N. Y. Ash tray or the like. Nos. 61,463–4; Sept. 12.
Davis, Rees, Chicago, Ill. Doll. No. 61,465; Sept. 12.
Foltz, Stewart P., New Castle, Pa. Business card. No. 61,466; Sept. 12.
Hine, Cicero, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Phonograph cabinet. No. 61,467; Sept. 12.
Keesee, Wesley E., Los Angeles, Calif. Lubricant-dispensing apparatus. No. 61,468; Sept. 12.
Kidder, Imogene, and L. Melton, Portland, Oreg. Doll. No. 61,469; Sept. 12.
Kronenburger, Stephen, Jersey City, N. J., assignor to Cohan-Epner Co., Inc., New York, N. Y. Ash tray. No. 61,470; Sept. 12.
Lester, John E., Seattle, Wash. Manikin. No. 61,471; Sept. 12.
Levy, David, New York, N. Y. Baby-crib cover. No. 61,472; Sept. 12.
Mason, Herbert T., North Brookfield, assignor to Quabaug Rubber Company, Brookfield, Mass. Sole. No. 61,473; Sept. 12.
Mason, Herbert T., North Brookfield, assignor to Quabaug Rubber Company, Brookfield, Mass. Heel. No. 61,474; Sept. 12.
Melton, Leona. (See Kidder, I., and Melton.)
Miles, Frank J. M., assignor to Cheramy, Inc., New York, N. Y. Paper or similar article of manufacture. No. 61,475; Sept. 12.
Pajeau, Charles H., Evanston, Ill. Wheeled toy. No. 61,476; Sept. 12.
Peters, Henry W., Boston, Mass. Badge, pin, ring, emblem, or article of similar nature. No. 61,477; Sept. 12.
Quabaug Rubber Company. (See Mason, Herbert T., assignor.)
Reich, Samuel, New York, N. Y. Doll. No. 61,478; Sept. 12.
Rice, Jerome, assignor to Wimelbacher & Rice, New York, N. Y. Glove gauntlet. Nos. 61,479–82; Sept. 12.
Schnack, Martin R., Los Angeles, Calif. Doll. No. 61,483; Sept. 12.
Steacy, Frank H., York, Pa. Toy. No. 61,484; Sept. 12.
Tamo, Stephen J., Livermore, Calif. Toy animal. No. 61,485; Sept. 12.
Verber, Albert, New York, N. Y. Ring. Nos. 61,486-7; Sept. 12.
Wadsworth Watch Case Company. (See Williams, Lois M., assignor.)
Watson, George W., Boston, Mass. Rubber heel. No. 61,488; Sept. 12.
Williams, Lois M., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase bow. Nos. 61,490–1; Sept. 12.
Wimelbacher & Rice. (See Rice, Jerome, assignor.)
Witzberger, Etienne, Carnegie, Pa. Heater. No. 61,489; Sept. 12.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abrams Trunk Co., Chicago, Ill. Hand trunks, bags for travelers and others, and suitcases. No. 158,588; Sept. 12.
Admiral Co. (See Sharp, Jerleene B.)
Adolph Rosenberg & Co. Inc., New York, N. Y. Cotton linings. No. 158,791; Sept. 12.
Alcohol Fuel Corporation Limited, The, Westminster, London, England. Motor spirit. No. 158,589; Sept. 12.
Alexander Lumber Company, The, Aurora, Ill. Ready-mixed paints, colors in oil, wood stains, and varnishes. No. 158,590; Sept. 12.
Allied Factories Corporation, Kansas City, Mo. Toy wagons. No. 158,591; Sept. 12.
Allman, Walter R., Cleveland, Ohio. Pictures and cartoons published in newspapers and magazines. No. 158,592; Sept. 12.
American Enamel Company, Providence, R. I. Enamel for wood and metal. No. 158,593; Sept. 12.
American Fastener Company, The, Waterbury, Conn. Snap fasteners. No. 158,594; Sept. 12.
American Oil Company, Peoria, Ill. Gasoline and fuel oil. No. 158,595; Sept. 12.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio. Horse, mule, and pony shoes and calks. No. 158,597; Sept. 12.
American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Work shirts. No. 158,596; Sept. 12.
Amertex Mills, Inc., The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 158,598; Sept. 12.
Ammidown, Fred D., & Co. (See Ammidown, Fred D.)
Ammidown, Fred D., doing business as Fred D. Ammidown & Co., Boston, Mass. Hair nets. No. 158,599; Sept. 12.
Artcraft Leather Goods Company, Boston, Mass. Leather bags, suitcases, pocketbooks. No. 158,600; Sept. 12.
Associated Portland Cement Manufacturers Limited, The. (See Gillingham Portland Cement Company, The, assignor.)
Aunt Nellie's Farm Kitchen, Hartford, Wis. Canned peas and corn. No. 158,601; Sept. 12.
Bailey Brothers Inc., Winston-Salem, N. C. Cigarettes and smoking tobacco. No. 158,602; Sept. 12.
Baker Paint & Varnish Co., Jersey City, N. J. Putty. No. 158,603; Sept. 12.
Baker, Walter, & Company, Limited. (See Pierce, Henry L., assignor.)
Barnstead Still & Sterilizer Co., Boston, Mass. Apparatus for sterilizing surgical and dental instruments. No. 158,604; Sept. 12.
Barrett, Denton & Lynn Co., Dalton, Ga. Wheat flour. No. 158,605; Sept. 12.
Bass, Columbus E., Boonville, Mo. Polish for auto bodies and furniture and having incidental properties as auto top polish. No. 158,606; Sept. 12.
Batcheller, George C., & Co., New York, N. Y. Corsets. No. 158,607; Sept. 12.
Becker, R. A., Varnish Company, The, Cincinnati, Ohio. Stain varnish, varnishes, mixed paints, and paint enamels. No. 158,608; Sept. 12.
Behringer, Claud A., Anderson, Ind. Suitcase. No. 158,609; Sept. 12.
Beisseo Mechanics Corporation, New York, N. Y. Apparatus for playing a game in which a board or table and missiles or playing pieces are employed. No. 158,610; Sept. 12.
Bell Syndicate, Inc., The, New York, N. Y. Series of cartons. No. 158,611; Sept. 12.
Berry Brothers, Detroit, Mich. Varnishes. No. 158,612; Sept. 12.
Besson, Adolfo, Los Lunas, N. Mex. Preparation for the treatment of blood diseases. No. 158,613; Sept. 12.
Bickum, Dorothy, New York, N. Y. Women's skirt drawers and combinations. No. 158,614; Sept. 12.
Black Hawk Oil Company, The, Cedar Falls, Iowa. Gasoline. No. 158,616; Sept. 12.
Bliss, Wm. B., Jr., & Co., assignor to Wm. B. Bliss, Jr., & Co. Incorporated, New York, N. Y. Woven and braided narrow fabrics. No. 158,617; Sept. 12.
Bordeaux & New York Trading Co., New York, N. Y. Sardines. No. 158,618; Sept. 12.
Boyst, Charles H., Greensboro, N. C. Pieces of chewing candy commonly known as kisses. No. 158,619; Sept. 12.
Bradley & Vrooman Company, Chicago, Ill. Ready-mixed paints, varnishes, stains, and enamel paints. No. 158,620; Sept. 12.
Branson, Howard I., & Co., Philadelphia, Pa. Children's dresses, coats, and caps. No. 158,621; Sept. 12.
Brody, F., & Sons Co., Des Moines, Iowa. Overalls, shirts, undershirts, men's, women's, and children's underwear, hosiery, and belts, and one-piece work garments. No. 158,622; Sept. 12.
Browning, H. P., New York, N. Y. Garment bags made of paper. No. 158,623; Sept. 12.
Bunny Coffee Company, The. (See Haase, Ernest.)
Bunting Publications, Inc., The, Waukegan, Ill. Monthly publication. Nos. 158,624–6; Sept. 12.
California Packing Corporation, San Francisco, Calif. Canned peaches. No. 158,627; Sept. 12.
Capen, George H., Canton Junction, Mass. Lubricating oils. No. 158,628; Sept. 12.
Cellu-Metal Corporation, Rochester, N. Y. Cardboard toy houses and automobiles. No. 158,629; Sept. 12.
Chalmers Chemical Company, Newark, N. J. Paint and varnish removers. No. 158,630; Sept. 12.
Cherry Blossom Mfg. Co., Newton, Iowa. Nonalcoholic, noncereal, maltless beverages sold as soft drinks and sirups for making the same. Nos. 158,631–6; Sept. 12.
Chicago Glass Products Company, The, Chicago, Ill. Glass products. No. 158,637; Sept. 12.
Choc-Lo Co., Inc., The, New York, N. Y. Nonalcoholic beverage. No. 158,638; Sept. 12.
Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. No. 158,640; Sept. 12.
Consumers Service Stations, Consolidated, Rochester, N. Y. Lubricating oil. No. 158,641; Sept. 12.
Container Company, The, Toledo, Ohio. Fiber pails, drums, and cheese boxes and fiber containers for shipping commodities. No. 158,643; Sept. 12.
Cooper, James T., London, England. Socks for boots and shoes. No. 158,642; Sept. 12.
Crandall Pettee Co., The, New York, N. Y. Ice-cream powder. No. 158,644; Sept. 12.
Dampney Company of America, The, Boston, Mass. Protective paint coatings. Nos. 158,645–6; Sept. 12.
Dayton Company, The, Minneapolis, Minn. Golf balls. No. 158,647; Sept. 12.
Diamond Braiding Mills, Chicago Heights, Ill. Shoe laces. No. 158,648; Sept. 12.
Dome Oil Company, Washington, D. C. Gasoline, lubricating oils, and greases. No. 158,649; Sept. 12.
Duplan Silk Corporation, New York, N. Y. Broad silk piece goods. No. 158,650; Sept. 12.
Duran y Cia, Barcelona, Spain. Olive oil. No. 158,639; Sept. 12.
Dutton, E. P., & Company, New York, N. Y. Printed books published in series. No. 158,651–2; Sept. 12.
Eagle Rubber Co., The, Ashland, Ohio, and New York, N. Y. Bouncing balls. No. 158,653; Sept. 12.
Eastman Advertising Service. (See Eastman, Arthur A.)
Eastman, Arthur A., doing business as Eastman Advertising Service, South Bend, Ind. Monthly trade bulletin. No. 158,654; Sept. 12.
Elam, Wade H., Nashville, Tenn. Beverage sold as a soft drink and sirup for making same. No. 158,656; Sept. 12.
Elektrizitätsgesellschaft Sanitas mit beschränkter Haftung, Berlin, Germany. Electric hot-air baths, electrical massage device, and electric hot-air douches. No. 158,657; Sept. 12.
Ellis, George D., & Sons, Incorporated, Philadelphia, Pa. Tin cans and closures for cans. No. 158,655; Sept. 12.
Elwood Myers Co., The, Springfield, Ohio. Purses. No. 158,751; Sept. 12.
Embalming Burial Case Company, Burlington, Iowa. Burial cases. No. 158,658; Sept. 12.
Emery & Beers Company, Inc., New York, N. Y. Hosiery. No. 158,659; Sept. 12.
Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 158,660; Sept. 12.
Evans, David G., Coffee Co., St. Louis, Mo. Coffee, tea, spices, vinegar, and flavoring extracts for foods. No. 158,661; Sept. 12.
Fawcett, Wilford H., Robbinsdale, Minn. Monthly publication. No. 158,662; Sept. 12.
Feisberg, Alfred L., & Co., Newark, N. J. Cases and satchels for musical instruments. No. 158,663; Sept. 12.
Finkel, Abraham D., doing business as Sorg Manufacturing Company, Pittsburgh, Pa. Bungalow aprons, dresses, petticoats, and band aprons, nightgowns, and bloomers. Nos. 158,664–5; Sept. 12.
FitzGerald Mfg. Company, The, Torrington, Conn. Electric toaster, air heater, and hair drier. No. 158,666; Sept. 12.
Flagg & Mowry. (See Flagg, Andrew B.)
Flagg, Andrew B., trading as Flagg & Mowry, North Attleboro, Mass. Vanity cases. No. 158,667; Sept. 12.
Fleischer, Joseph, New York, N. Y. Hair nets. No. 158,668; Sept. 12.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 158,669–76; Sept. 12.
Fracello Remedy Co. (See Zuray, Charles.)
Frank, M., Sons & Company, Inc., New York, N. Y. Men's and young men's clothing. No. 156,677; Sept. 12.
Fruit and Produce Exchange of Great Britain, Limited, London, England. Sacks, wooden cases, boxes, crates, etc. No. 158,678; Sept. 12.
Gaiety Garment Company. (See Kaufman Manufacturing Co., assignor.)

Galena-Signal Oil Co., Franklin, Pa. Illuminating and lubricating oils and greases. No. 158,679; Sept. 12.
Gavin, Joseph A., Brooklyn, N. Y. Waterproof paper outer garments. No. 158,680; Sept. 12.
Gaylord, Albert E., New York, N. Y. Tire-sealing compound. No. 158,681; Sept. 12.
Gerbang, Samuel C., New York, N. Y. Parasols and umbrellas. No. 158,682; Sept. 12.
Gene Vail Cigar Co. Inc., New York, N. Y. Cigars. No. 158,683; Sept. 12.
Gillingham Portland Cement Company, Limited, The, London and Gillingham, assignor to The Associated Portland Cement Manufacturers, Limited, London, England. Portland cement. No. 22,244; renewed Dec. 27, 1922.
Globe Refining Company, The, Cleveland, Ohio. Lubricating oil and grease. No. 158,684; Sept. 12.
Great Lakes Cigar Mfg. Co., Detroit, Mich. Cigars. No. 158,685; Sept. 12.
Grumbacher, Max, New York, N. Y. Artists' brushes. Nos. 158,686–94; Sept. 12.
Haase, Ernest, doing business as The Bunny Coffee Company, Brooklyn, N. Y. Prepared coffee extracts. No. 158,695; Sept. 12.
Haddock, Parker & Co., Liverpool, England. Candles and oils. No. 158,696; Sept. 12.
Hall, Nathaniel L., Norfolk, Va. Nonalcoholic, maltless beverages sold as soft drinks and sirup for making same and sirup. No. 158,697; Sept. 12.
Hartmann Food Product Co. Inc., The, New York, N. Y. Almond paste. No. 158,698; Sept. 12.
Harvard Garment Company. (See Lanning, Frank W.)
Heberlein & Co. A. G. Wattwil and Rietwies, Switzerland. Cotton fabrics in pieces. No. 158,699; Sept. 12.
Herman, Fred, Mfg. Co. (See Herman, Frederick.)
Herman, Frederick, doing business as Fred Herman Mfg. Co., Seattle, Wash. Misses' outer shirts. No. 158,700; Sept. 12.
Hilton Collins Co. Incorporated, Louisville, Ky. Baseball bats. Nos. 158,701–2; Sept. 12.
Hirschl & Bendheim, Washington, Mo. Tobacco-smoking pipes. No. 158,704; Sept. 12.
Hirshfield Skirt Co., St. Louis, Mo. Certain outing and sporting apparel. No. 158,703; Sept. 12.
Hoegen, J. & J. V., & Company, New York, N. Y. Marmalade. No. 158,705; Sept. 12.
Icy-Hot Bottle Company, Cincinnati, Ohio. Coffee, sugar, tea, soap, etc. No. 158,708; Sept. 12.
Industrial Paint Company, Leetsdale Borough and Fair Oaks Borough, Pa. Dry, paste, and ready mixed paints. No. 158,709; Sept. 12.
Johnson & Johnson. (See Johnson, James W., assignor.)
Johnson, James W., New Brunswick, N. J., and New York, N. Y., assignor to Johnson & Johnson. Medicated cotton. Nos. 21,629–30; renewed Aug. 16, 1922.
Jowall Cap Works. (See Wall, Joseph.)
Jungels Candy Company. (See T. C. Jungels.)
Jungels, T. C., doing business as Jungels Candy Company, Joliet, Ill. Candy. No. 158,710; Sept. 12.
K-W Shoe Co., The, Chicago, Ill. Men's leather shoes. No. 158,724; Sept. 12.
Kalamazoo Sled Company, The, Kalamazoo, Mich. Hand sleds. No. 158,711; Sept. 12.
Kaufman Manufacturing Co., assignor to Gaiety Garment Company, Tacoma, Wash. Kitchenette dresses, house dresses, etc. No. 158,712; Sept. 12.
Kayser, Julius, & Co., New York, N. Y. Stockings. Nos. 158,713–14; Sept. 12.
Kee Lox Manufacturing Co., Rochester, N. Y. Carbon paper. Nos. 158,715–17; Sept. 12.
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper and typewriter ribbons. No. 158,718; Sept. 12.
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. No. 158,719; Sept. 12.
Klatte Coffee Company, Terre Haute, Ind. Coffee. No. 158,720; Sept. 12.
Klenzal Co. Inc., The, Washington, D. C. Paste cleanser for carpets, rugs, and other fabrics. No. 158,721; Sept. 12.
Krueger-Tobin Co. Inc., New York, N. Y. Infants', children's, women's, and men's hosiery. No. 158,722; Sept. 12.
Kuster, Madeleine, Ossining, N. Y. Infants' coats. No. 158,723; Sept. 12.
L. S. F. Co., Inc., Brooklyn, N. Y. Fancy linen. No. 158,725; Sept. 12.
La Societe des Produits Chimiques Colgnet, Paris, France. Glue. No. 158,729; Sept. 12.
La Societe des Produits Chimiques Colgnet, Paris, France. Glue and gelatine. Nos. 158,727–8; Sept. 12.
Lanning, Frank W., doing business as Harvard Garment Company, Harvard, Ill. Cloth dolls and doll dresses. No. 158,726; Sept. 12.
Lee, Gilbert C., Los Angeles, Calif. Compounds for cleaning hands. No. 158,737; Sept. 12.
Levy & Weiss Shoe Co., New York, N. Y. Leather, fabric, and rubber shoes, and combinations of same. No. 158,731; Sept. 12.
Levy, F., Shoe Co., St. Louis, Mo. Children's shoes made of leather, rubber fabrics, and combinations of materials. No. 158,730; Sept. 12.
Lindenhurst Manufacturing Co., Lindenhurst, N. Y. Horn buttons. No. 158,738; Sept. 12.
Little, A. E., Co., Lynn, Mass. Boots and shoes of leather and leather and cloth. No. 158,732; Sept. 12.
Little Goddess Dress Co., Inc., New York, N. Y. Outer clothing for girls. No. 158,733; Sept. 12.
Long Island Knitting Mills Co., Brooklyn, N. Y. Bathing suits. No. 158,734; Sept. 12.
Lucas, H. W., & Co., Cincinnati, Ohio. Fluid for patching fabrics. No. 158,735; Sept. 12.
Lustrex Products Co., Oradeel, N. J. Furniture polish. No. 158,736; Sept. 12.
Lykglas Auto Renual System, Inc., Indianapolis, Ind. Ready-mixed paint and varnish for automobiles and automobile bodies. No. 158,739; Sept. 12.
McCloskey Varnish Co., Philadelphia, Pa. Varnishes. No. 158,740; Sept. 12.
McConaghy, Anna V., Washington, D. C. Lubricating and illuminating oils and greases and gasoline. No. 158,741; Sept. 12.
McMullen-Leavens Co. Inc., New York, N. Y. Men's outer shirts. No. 158,742; Sept. 12.
McQuade, John, Brooklyn, N. Y. Ready-mixed paints. No. 158,743; Sept. 12.
MacNamara, Edward T., Gretna, La. Flower fertilizer. No. 158,744; Sept. 12.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 158,745; Sept. 12.
Marine Decking & Supply Company, Philadelphia, Pa. Paints of ready-mixed form and varnishes, fillers, paint pigments and vehicles, driers and chrome. No. 158,746; Sept. 12.
Michigan Grape Products Co. (See Smith, J. Hungerford, Grape Juice Co.)
Moore, Walton N., Dry Goods Co., San Francisco, Calif. Cotton and cotton-mixed wash dress piece goods. No. 158,747; Sept. 12.
Morse & Burt Co. Inc., Brooklyn, N. Y. Shoes of leather fabric and combinations of leather and fabric. No. 158,748; Sept. 12.
Murray, John F., New York, N. Y. Pharmaceutical preparations for stimulating action of the liver cells. No. 158,749; Sept. 12.
Mutual Hosiery Mills, Inc., Philadelphia, Pa. Full-fashioned and seamless silk hosiery. No. 158,750; Sept. 12.
Naregan, Joseph E., Los Angeles, Calif. Suspensories. No. 158,752; Sept. 12.
National Marine Engineers' Beneficial Association, Washington, D. C. Official journal of this organization. No. 158,753; Sept. 12.
Nettleton Shops, Inc., Syracuse, N. Y. Shoes made of leather. No. 158,754; Sept. 12.
New England Supplies Corporation, The, Boston, Mass. Hair nets. No. 158,755; Sept. 12.
New York Belting & Packing Company. (See New York Belting and Packing Company (Limited), assignor.)
New York Belting and Packing Company (Limited), New York, N. Y., assignor to New York Belting & Packing Company. Articles of vulcanized rubber, including mats and matting. No. 22,108; renewed Aug. 22, 1922.
New York Lubricating Oil Company, New York, N. Y. Gas-engine cylinder oil. No. 158,756; Sept. 12.
New York Merchandise Company, New York, N. Y. Safety pins. Nos. 158,757–8; Sept. 12.
Nichols Candy Company, The, Indianapolis, Ind. Candy. No. 158,759; Sept. 12.
Nicholson (Newcastle-on-Tyne) Limited, Newcastle-on-Tyne, England. Polishing preparation for floors, furniture, and other woodwork. No. 158,760; Sept. 12.
Non-Breakable Button Corporation of America, Milwaukee, Wis. Nonbreakable buttons for clothing. No. 158,761; Sept. 12.
Oklahoma City Mill & Elevator Co., Oklahoma, Okla. Wheat flour. No. 158,763; Sept. 12.
Paine, Charles W., Philadelphia, Pa. Noudrying paint of paste consistency. No. 158,764; Sept. 12.
Paramount Knitting Company, The, Chicago, Ill. Textile articles—namely, hosiery. No. 158,765; Sept. 12.
Paris, Raphael N., York, Pa. Cigars and little cigars. No. 158,766; Sept. 12.
Parke, L. H., & Co., Philadelphia, Pa., assignor to L. H. Parke Company. Blended tea. No. 21,431; renewed July 12, 1922.
Parke, L. H., & Co., Philadelphia, Pa., assignor to L. H. Parke Company. Tea. No. 21,432; renewed July 12, 1922.
Parke, L. H., Company. (See Parke, L. H., & Co., assignor.)
Paterson Knitting Mills, Inc., Paterson and Ramsey, N. J. Full-fashioned and seamless silk hosiery. No. 158,767; Sept. 12.
Peirce, George E., doing business as Thomas F. Peirce & Son, Providence, R. I. Shoes. No. 158,768; Sept. 12.
Peirce, Thomas F., & Son. (See Peirce, George E.)
Peiser Manufacturing Company, Peiser, S. C. Cotton piece goods. Nos. 158,769–70; Sept. 12.
Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' work shirts, boys' blouses and playsuits. No. 158,771; Sept. 12.
Pierce, Henry L. Boston, Mass., assignor to Walter Baker & Company, Limited. Chocolate. No. 22,356; renewed Jan. 24, 1923.
Pioneer Manufacturing Company, The, Cleveland, Ohio. Paint thinner or turpentine substitute. No. 158,772; Sept. 12.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid floor varnish coating. No. 158,773; Sept. 12.

Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers of leather, rubber, felt, etc. No. 158,774; Sept. 12.
Poldi Steel Corporation of America. (See Poldihus Hut, továrna na kelimkovou ocel.) (Crucible Steel Works, assignor.)
Poldihütte Tiegelgusstahlfabrik. (See Poldina Hut, továrna na kelimkovou ocel.) (Crucible Steel Works.)
Poldina Hut, továrna na kelimkovou ocel (Crucible Steel Works), also trading as Poldihütte Tiegelgusstahlfabrik, Prague and Kladno, Czecho-Slovakia, assignor to Poldi Steel Corporation of America, New York, N. Y. Steel in blocks and in bars and forgings for all kinds of machines, artisans' and cutting tools, and springs. No. 158,707; Sept. 12.
Popular Radio, Inc., New York, N. Y. Monthly publication. No. 158,775; Sept. 12.
Poster Advertising Association, Chicago, Ill. Monthly publication. No. 158,776; Sept. 12.
Primalt Products Co., Chicago, Ill. Malt extract for food purposes. No. 158,777; Sept. 12.
Purchasing Agents Association of Western Massachusetts, Springfield, Mass. Periodical published monthly. No. 158,778; Sept. 12.
Pure Products Syrup Corporation, New York, N. Y. Nonalcoholic, noncereal, maltless, fruit juice beverages sold as soft drinks and sirups for making same. No. 158,779; Sept. 12.
Quick, Harry O., doing business as Quick Shoe Company, Brockton, Mass. Leather boots and shoes. No. 158,780; Sept. 12.
Quick Shoe Company. (See Quick, Harry O.)
Ramp Buildings Corporation, New York, N. Y. Magazines published monthly. No. 158,781; Sept. 12.
Rauschenberger, John, Company, Milwaukee, Wis. Certain named cordage. No. 158,782; Sept. 12.
Readers' Publishing Corporation, New York, N. Y. Monthly magazine. No. 158,783; Sept. 12.
Red Dog Oil Company, Pittsburgh, Pa. Lubricating oils, gasoline, and crude oil. No. 158,784; Sept. 12.
Rees Davis Toy Company, Chicago, Ill. Dolls. No. 158,786; Sept. 12.
Rees, Fred, doing business as The Remo Mfg. Co., Meriden, Conn. Safety pins. Nos. 158,785; Sept. 12.
Reid, Murdoch & Co., Chicago, Ill. Grape juice. No. 158,787; Sept. 12.
Remo Manufacturing Co., The. (See Rees, Fred.)
Rice-Stix Dry Goods Company, St. Louis, Mo. Women's frocks and dresses. No. 158,788; Sept. 12.
Robson & Bowen, New York, N. Y. Racing games. No. 158,789; Sept. 12.
Ronzoni Macaroni Company, Inc., Long Island City, N. Y. Alimentary paste products. No. 158,790; Sept. 12.
Ro-eth Corporation, The, Brooklyn, N. Y. Garment-storage bags. No. 158,792; Sept. 12.
Ross, Benjamin, Brooklyn, N. Y. Shoes and boots of leather. No. 158,793; Sept. 12.
Rousette Company, Cincinnati, Ohio. Parlor game in the nature of roulette. No. 158,794; Sept. 12.
Rubberized Sheeting & Specialty Co., Inc., New York, N. Y. Sanitary belts. No. 158,796; Sept. 12.
Rubberized Sheeting & Specialty Co., Inc., New York, N. Y. Waterproof aprons. No. 158,795; Sept. 12.
Saab, Alexander N., New York, N. Y. Batiste lingerie. No. 158,797; Sept. 12.
Saks and Company, New York, N. Y. Men's and boys' suits and overcoats. No. 158,798; Sept. 12.
Sardeau, Hélène, New York, N. Y. Dolls. No. 158,799; Sept. 12.
Savi, Paul A., Boston, Mass. Boots and shoes of leather, rubber, fabric, etc. No. 158,800; Sept. 12.
Schmidt, Charles G., Philadelphia, Pa. Polish for automobiles, pianos, furniture, safes, etc. No. 158,801; Sept. 12.
Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 158,802; Sept. 12.
Schwartz, J. C., St. Louis, Mo. Alloy for the restoration of broken-down teeth. No. 158,803; Sept. 12.
Schwartz, J. C., St. Louis, Mo. Material for models for the construction of dental crowns and bridges. No. 158,804; Sept. 12.
Schwartz, S. Robert, & Bro., New York, N. Y. Therapeutic lamps. No. 158,805; Sept. 12.
Semet-Solvay Co., Solvay, N. Y. Protective paints. No. 158,806; Sept. 12.
Shade-O Co. (See Walsh, John.)
Sharp, Jericene B., doing business as Admiral Co., Los Angeles, Calif. Hair restorer. No. 158,807; Sept. 12.
Shaw, Max, Philadelphia, Pa. Dress and negligee shirts. No. 158,808; Sept. 12.
Shea Smith & Co., Chicago, Ill. Publications issued monthly. No. 158,813; Sept. 12.
Shell Company of California, San Francisco, Calif. Lubricating oils. No. 158,809; Sept. 12.
Shilvek Brothers Fabrics Corporation, New York, N. Y. Wool, wool and cotton, and wool and silk mixture fabrics in the piece. No. 158,810; Sept. 12.
Sidney Cigar Manufacturing Company, Sidney, Ohio. Cigars. No. 158,811; Sept. 12.
Sinclair, John, Ltd., Newcastle-on-Tyne, England. Smoking tobacco. No. 158,812; Sept. 12.
Smith, J. Hungerford, Grape Juice Co., doing business as Michigan Grape Products Co., Lawton, Mich. Grape juice. No. 158,706; Sept. 12.
Smith Shoe Co. Inc., Lynn, Mass. Leather and fabric boots, shoes, and slippers and rubbers. No. 158,814; Sept. 12.
Soiuns, J. A. and R. E., St. Paul, Minn. Ladies' aprons, house dresses, and dresses of cotton material for street and outdoor wear. No. 158,815; Sept. 12.
Sorg Manufacturing Company. (See Finkel, Abraham D.)
Southern California Supply Company, The, Los Angeles, Calif. Nonalcoholic, maltless beverage and extracts, flavors, and colors for making same. No. 158,816; Sept. 12.
Stafford, S. S., Inc., New York, N. Y. Furniture polish. Nos. 158,817–18; Sept. 12.
Standard Comb Company, Leominster, Mass. Combs, pendants, hair ornaments, and bag frames of celluloid. No. 158,819; Sept. 12.
Standard Oil Company, San Francisco, Calif. Certain oils and lubricating oils and greases. No. 158,820; Sept. 12.
Standard Oil Company of New York, New York, N. Y. Floor oilers, yarn mops, dust cloths, and yarn dust brushes. No. 158,821; Sept. 12.
Standard Playing Card Company. (See United States Playing Card Company, assignor.)
Sta-Rite Hair Pin Co., Shelbyville, Ill. Hairpins. No. 158,822; Sept. 12.
Starr, Raynor F., Chicago, Ill. Washboards. No. 158,823; Sept. 12.
Steeg, Elberta R., Kansas City, Mo. Candy. No. 158,824, Sept. 12.
Sterzelbach, A., & Sons Co., New York, N. Y. Woven, knitted, netted, and textile fabrics in the piece. No. 158,825; Sept. 12.
Story, O. K., & Company, Washburn, Me. Potatoes in their natural state. No. 158,762; Sept. 12.
Strauss & Co. (See Strauss, Max.)
Strauss, Max, doing business as Strauss & Co., New York, N. Y. Piece goods. No. 158,826; Sept. 12.
Strunge and Warner Company, St. Paul, Minn. Ladies' hats. No. 158,827; Sept. 12.
Sun Chemical & Color Company, Wilmington, Del., and Harrison, N. J. Dry paints. No. 158,828; Sept. 12.
Sundmacher, Charles T., Brooklyn, N. Y. Finger-nail buffers. No. 158,829; Sept. 12.
Super Polish Co., Detroit, Mich. Polish for furniture, automobiles, and pianos. No. 158,831; Sept. 12.
Superior Underwear Company, The, Piqua, Ohio. Men's, women's, and children's union suits, combination suits, undershirts, and underdrawers. No. 158,830; Sept. 12.
Taylor and Watson, Inc., Dover, Del., and New York, N. Y. Hosiery. No. 158,832; Sept. 12.
Texas Gulf Sulphur Company, New York, N. Y. Sulphur inoculated with bacteria. Nos. 158,833–4; Sept. 12.
Thau, Charles K., New York, N. Y. Hair nets. No. 158,835; Sept. 12.
Tisgood Products, Inc., St. Louis, Mo. Olives, fruit jelly, fruit jam, apple butter, etc. No. 158,836; Sept. 12.
Turner & Wails, New York, N. Y. Wool and artificial-silk piece goods and combinations of same. No. 158,837; Sept. 12.
Uncle Sam Chemical Co., New York, N. Y. Exterminating fluids for exterminating roaches, bedbugs, and disinfectants. No. 158,840; Sept. 12.
Union Oil Company of California, Los Angeles, Calif. Road oils. No. 158,838; Sept. 12.
Union Oil Company of California, Los Angeles, Calif. Flushing oils. No. 158,839; Sept. 12.
United Manufacturing Trimming Co. Inc., New York, N. Y. Certain buttons, buckles, girdles, beads, spangles. No. 158,841; Sept. 12.
United States Overall Manufacturing Company, The, Cincinnati, Ohio. Overalls, overall coats, trousers, etc. No. 158,842; Sept. 12.
United States Playing Card Company, The, Cincinnati, Ohio, assignor to Standard Playing Card Company, Chicago, Ill. No. 158,843; Sept. 12.
Universal Dental Company, Philadelphia, Pa. Artificial teeth. No. 158,844; Sept. 12.
Valentine & Company, New York, N. Y. Varnishes, varnish stains, paint enamels, ready-mixed and paste paints. No. 158,845; Sept. 12.
Victory Bag & Paper Co., Marinette, Wis. Paper bags. No. 158,846; Sept. 12.
Wabash Baking Powder Company, Wabash, Ind. Cornstarch, flavoring extracts, gelatine dessert, and tapioca. No. 158,847; Sept. 12.
Walker, A. R., Candy Corporation, Muskegon, Mich. Candies. No. 158,848; Sept. 12.
Walker Stetson Company, Boston, Mass. Hair nets. No. 158,849; Sept. 12.
Walker Webbing Co., Providence, R. I. Certain notions. Nos. 158,850–3; Sept. 12.
Wall, Joseph, doing business as The Jowall Cap Works, Boston, Mass. Men's and boys' hats and caps. No. 158,854; Sept. 12.
Walsh, John, doing business as Shade-O Co., Beverly Farms, Mass. Waterproof paint for coating glass. No. 158,855; Sept. 12.
Waterbury Company, Jersey City, N. J., and New York, N. Y. Fiber cable. No. 158,856; Sept. 12.
Weisenburger, Sig., & Co., New York, N. Y. Ladies' trimmed and tailored hats. No. 158,857; Sept. 12.
Western Cartridge Company, East Alton and Springfield, Ill. Powder and ammunition containing the same. No. 158,858; Sept. 12.

Western Grip & Trunk Co., Milwaukee, Wis. Grips, suitcases, trunks, etc. No. 158,859; Sept. 12.
Whitman, Ralph M., New Bedford, Mass. Garters. No. 158,860; Sept. 12.
Wilcox, M. I., Company, The, Toledo, Ohio. Dry, ready-mixed, and paste paints and varnishes and putty. No. 158,861; Sept. 12.
Williams, A. G., Homemade Candy Co., Inc., New Orleans, La. Candies. No. 158,864; Sept. 12.
Williams, C. K., & Co., Easton, Pa. Dry colors and fillers. No. 158,862; Sept. 12.
Williams-Hayward Company, Chicago, Ill. Enamel and paint preparations. No. 158,863; Sept. 12.
Wilson Brothers, Chicago, Ill. Handkerchiefs. No. 158,865; Sept. 12.
Wilson Process, Inc., New York, N. Y. Boots and shoes made wholly or in part of leather, canvas, or textile materials. No. 158,866; Sept. 12.
Winget Manufacturing Co., The, Minneapolis, Minn. Bloomers, children's coveralls, and sleeping garments. No. 158,867; Sept. 12.
Wolfeboro Mills, Wolfeboro, N. H. Cotton and wool blankets, robes, and rugs. No. 158,868; Sept. 12.
Wondernette Company, New York, N. Y. Hair nets. No. 158,869; Sept. 12.
Wornova Mfg. Co., Inc., New York, N. Y. Children's rompers, jumpers, overalls, and smocks. No. 158,870; Sept. 12.
Worth, Inc., New York, N. Y. Frocks, dresses, suits, furs, underwear, gloves, etc. No. 158,871; Sept. 12.
Wright's Underwear Company, Incorporated, New York, N. Y. Knit underwear for women and children. No. 158,872; Sept. 12.
Zimsser, William & Company, Incorporated, New York, N. Y. Varnish and stains. No. 158,873; Sept. 12.
Zuray, Charles, doing business as Fracello Remedy Co., Chicago, Ill. Certain medicinal preparations. No. 158,874; Sept. 12.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Associated Fruit Co., Fresno, Calif. "California Community." (For Fresh Grapes.) No. 25,027; Sept. 12.
Caverly-Plumer Company, Lynn, Mass. "White Mountain." (For Baking Powder.) No. 25,028; Sept. 12.
Clark Bro. & Co. Inc., Baltimore, Md. "Original Clarks Sealark Mayonnaise." (For Mayonnaise.) No. 25,029; Sept. 12.
Desapio, Toney, Devon, Conn. "Perfection Healing and Soothing Compound." (For Jars and Packages of Medicinal Salve.) No. 25,030; Sept. 12.
Douglas & Burns, Ltd., Des Moines, Iowa. "Crowned With Wealth of Vitamines." (For Containers Having Ingredients for Beverages Sold as a Soft Drink.) No. 25,031; Sept. 12.
Douvres, Peter, Chicago, Ill. "Co-Co-Con." (For a Cone Made of Pure Chocolate and Filled with Confections.) No. 25,032; Sept. 12.
Foster, Merriam & Company, Meriden, Conn. "Bear-Tite Piston Ring." (For Envelopes and Boxes for Piston Rings.) No. 25,033; Sept. 12.
Goldsmith, Joseph, jr., doing business as Goldsmith Manufacturing Co., Providence, R. I. "Sentry Hair Curler." (For Hair Curlers.) No. 25,034; Sept. 12.
Goldsmith, Joseph, jr., doing business as Goldsmith Manufacturing Co., Providence, R. I. "Wavo Hair Curler." (For Hair Curlers.) No. 25,035; Sept. 12.
Goldsmith Manufacturing Co. (See Goldsmith, Joseph, jr.)
Hay, H. H., Sons, Portland, Me. "Five Fruits." (For a Fruit Sirup.) No. 25,036; Sept. 12.
Hay's Fruit Juice Co., Portland, Me. "Club Punch." (For a Beverage.) No. 25,037; Sept. 12.
Hay's Fruit Juice Co., Portland, Me. "Panama Punch." (For a Beverage.) No. 25,038; Sept. 12.
Indian Herb & Tonic Root Combination, New Orleans, La. "Indian Root Tea." (For a Medicinal Compound—Namely, Indian Root Tea.) No. 25,039; Sept. 12.
Kretchman, L. J., & Co. (See Kretchman, L. J.)
Kretchman, L. J., doing business as L. J. Kretchman & Co., Tacoma, Wash. "Kla-Ta-Wa Kleaner." (For a Soft Soap Vegetable Compound for Cleaning Rugs, Carpets, Painted Surfaces, Shoes, Windows, Automobiles, and for Removing Stains and Spots from Clothing.) No. 25,040; Sept. 12.
Lustre Chemical Company, The, Cleveland, Ohio. "Lustre Soap." (For Soap.) No. 25,041; Sept. 12.
Macbeth-Evans Glass Company, Pittsburgh, Pa. "Crescent Nu-Type Chimney." (For Boxes Containing Chimneys.) No. 25,042; Sept. 12.
Macbeth-Evans Glass Company, Pittsburgh, Pa. "Macbeth Pearl Glass Nu-Type Chimney." (For Boxes Containing Chimneys.) No. 25,043; Sept. 12.
Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. "Superior." (For Noodles.) No. 25,044; Sept. 12.
Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. "Superior." (For Sea Shells.) No. 25,045; Sept. 12.
Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. "Superior." (For Vermicelli.) No. 25,046; Sept. 12.
Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. "Superior." (For Spaghetti.) No. 25,047; Sept. 12.
Ponce De Leon Medicine Co. (See Rivera, Guillermo H.)
Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn.; and Ilion, N. Y. "Dove Load." (For Loaded Shot Shells.) No. 25,048; Sept. 12.
Rivera, Guillermo H., doing business as Ponce De Leon Medicine Co., Tampa, Fla. "Ponce de Leon Fountain of Health." (For Medicines for the Nervous Diseases.) No. 25,049; Sept. 12.
Sage Brothers Company, Boston, Mass. "Orange Sunshine." (For a Nonalcoholic Beverage.) No. 25,050; Sept. 12.
Scoles, Arthur W., Co. (See Scoles, Arthur W.)
Scoles, Arthur W., doing business as Arthur W. Scoles Co., Tulsa, Okla. "Contrast." (For a Paint and Varnish Remover.) No. 25,051; Sept. 12.
Western Tablet & Stationery Company, St. Joseph, Mo. "Hy Tone Linen." (For Stationery.) No. 25,052; Sept. 12.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Ayer, Harriet Hubbard, New York, N. Y. Harriet Hubbard Ayer." (For Advertising Purposes for Toilet Preparations.) No. 6,305; Sept. 12.
Beautypeel Cosmetic Co. (See Newlyn, Thos. J.)
Greist Manufacturing Company, The, New Haven, Conn. "Miss Lotta Lite." (For Advertising Purposes for Portable Lamps. No. 6,306; Sept. 12.
Madder, William B., Newark, N. J. "Bob-Curl." (For Advertising Purposes for a Hair-Curling Preparation.) No. 6,307; Sept. 12.
Newlyn, Thos. J., doing business as the Beautypeel Cosmetic Co., El Paso, Tex. "Unmask Your Hidden Beauty." (For Advertising Purposes for Cosmetic Lotions for Beautifying the Skin and Eradicating Blemishes Thereof.) No. 6,308; Sept. 12.
Partridge, Josiah, & Sons, Incorporated, New York, N. Y. "Mov-Ezy Means Ease at the Movies." (For Advertising Purposes for Theater Chairs.) No. 6,309; Sept. 12.
Sta-Brite Auto Painting Co., Newark, N. J. "Sta-Brite." (For Advertising Purposes for Automobile Paints.) No. 6,310; Sept. 12.
Syracuse Basket Company Inc., Syracuse, N. Y. "Sybasco." (For Advertising Purposes for Baskets of All Descriptions.) No. 6,311; Sept. 12.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

American Machine Products Co., Detroit, Mich. Twist drills, milling cutters, and reamers. No. 160,106; Sept. 12.
American Soap Company. (See Milleman, William H.)
American Wall Paper Co., Chicago, Ill., and Pittsburgh, Pa. Dry, ready-mixed, and paste paints, putty, linseed oil, turpentine, etc. No. 160,846; Sept. 12.
Amsterdam Candy Co. (See Mahnken, Louis.)
Anuzis and Yuknis Co., Chicago, Ill. Hand lotion. No. 161,474; Sept. 12.
Aronovich, L., Havre, Mont. Medicine for rheumatism. No. 148,104; Sept. 12.
Baer Brothers, New York, N. Y. Paste and ready-mixed paints and varnishes. No. 153,535; Sept. 12.
Bafalis, Arthur J., doing business as Pearliedent Chemical Laboratories, Manchester, N. H. Medicated dentifrice. No. 158,753; Sept. 12.
Bazille & Partridge, Inc., St. Paul, Minn. Dry, ready-mixed, and paste paints, putty, linseed oil, turpentine, etc. No. 160,858; Sept. 12.
Beerman & Frank, Inc., doing business as The Novia Blouse Co., New York, N. Y. Ladies' handmade blouses and waists. No. 162,239; Sept. 12.
Bengue, Dr. (See Seltzer, Theodore.)
Beyerle, J. J., Mfg. Co., New York, N. Y. Sanitary aprons, sanitary belts, and baby pants. No. 154,300; Sept. 12.
Blum, Stanley W., Company, The, New York, N. Y. Sweaters, sweater coats, and bathing suits. No. 162,238; Sept. 12.
Brine, James W., Company, The, Boston, Mass. Footballs, inflaters, shoulder pads, thigh guards, etc. Nos. 165,177–8; Sept. 12.
Brunstaedt Co. Inc., The, Newark, N. J. Silk hosiery, silk underwear, and gloves of leather and of fabric. No. 159,841; Sept. 12.
Buffalo Dental Manufacturing Co., Buffalo, N. Y. Dental vulcanizers, dental vulcanizer heaters, and dental anvils. No. 160,043; Sept. 12.
Burnett's Incorporated, Newark, N. J. Tonic bird food. No. 152,781; Sept. 12.
Burnham, E., Inc., Chicago, Ill. Gray-hair restorer. No. 160,462; Sept. 12.
Burnham, E., Inc., Chicago, Ill. Perfumes, toilet waters, sachets. No. 160,460; Sept. 12.
Cadet Knitting Co., Philadelphia, Pa. Knitted sweaters. No. 162,800; Sept. 12.
Cadmus Products Company, Bayonne, N. J. Receptacles. No. 160,283; Sept. 12.
Cameron, Will J., Chicago, Ill. Devices and apparatus for ascertaining the physical condition of the nerves. No. 160,927; Sept. 12.
Carley, Leonard R., Watertown, Conn. Cans, containers, and cartons. No. 160,585; Sept. 12.
Cheney Brothers, South Manchester, Conn. Cravats and neckties. No. 162,287; Sept. 12.
Clax Company, The. (See Plax Company.)
Coronet Phosphate Company, New York, N. Y. Pebble phosphate. No. 158,703; Sept. 12.
Cunningham, R. G., Oils Co., Miami, Okla. Illuminating and lubricating oils and greases. No. 157,603; Sept. 12.
Debenedetti, John L., San Francisco, Calif. Fresh artichokes. Nos. 161,112–13; Sept. 12.
De Milo Perfume Co., Inc., New York, N. Y. Cold cream, almond cream, hair tonic, face powder, witch hazel, etc. No. 160,932; Sept. 12.
Dinkelwalter, Fred, doing business as Plant Marvel Laboratories, Columbus, Ohio. Plant food and tonic. No. 160,696; Sept. 12.
Detroit Range Boiler and Steel Barrel Co., Detroit, Mich. Range boilers. No. 139,349; Sept. 12.
Deutsch, Louis, doing business as Eagle Knitting Mill of New York, New York, N. Y. Sanitary napkins. No. 139,153; Sept. 12.
Deutsch, Morris, doing business as The French American Pharmacal Co., New York, N. Y. Depilatories. No. 162,670; Sept. 12.
Dietz, R. E., Company, New York, N. Y. Oil-burning motor-vehicle lamps and burners and oil pots thereof. No. 164,237; Sept. 12.
Dillon, Asahel H., doing business as General Oil Producing Company, Youngstown, Ohio. Nonabrasive polish for cleaning and polishing the varnished, lacquered, and painted surfaces of automobiles, etc. No. 160,799; Sept. 12.
Dreyfus Bros., Tulsa, Okla. Canned vegetables and fruits. No. 161,115; Sept. 12.
Dryfuss, Barney J., doing business as Imperial Pharmaceutical Company, New York, N. Y. Intestinal lubricant and exerciser. No. 162,288; Sept. 12.
Dunleavy, George W., Cambridge, Mass. Toilet waters, face creams, and hair tonics. No. 156,735; Sept. 12.
Dupont, Justin, Inc. (See Société Anonyme des Etablissements Justin Dupont, assignor.)
Durand Co., Boston, Mass. Candy. No. 161,037; Sept. 12.
Eagle Knitting Mill of New York. (See Deutsch, Louis.)
Edisto Veneer Co., The. (See Hamilton-Hill Veneer Co., assignor.)
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. Nos. 167,231–6; Sept. 12.
Fairmont Creamery Co., The, Omaha, Nebr. Ice cream. No. 161,533; Sept. 12.
Farwell, John V., Company, Chicago, Ill. Handkerchiefs. No. 166,446; Sept. 12.
Finlayson Flax Spinning Co., The. (See Linen Thread Co.)
French American Pharmacal Co., The. (See Deutsch, Morris.)
Fuerst & Kraemer, Limited, New Orleans, La. Chocolates and candies. No. 161,044; Sept. 12.
Garcia, Carl A., Portland, Me. Insecticide powder. No. 162,925; Sept. 12.
General Oil Producing Company. (See Dillon, Asahel.)
Glemby's, S., Sons Co., Inc., New York, N. Y. Hair nets. No. 167,126; Sept. 12.
Greco Canning Co., Inc., San Jose, Calif. Tomato sauce. No. 161,126; Sept. 12.
Groceriane Stores Association, The. (See Tribble, Robert A.)
Grohs, George J., Torrington, Conn. Healing salve for abrasions, ulcers, cuts, bruises, etc. No. 160,702; Sept. 12.
Haberdashers Novelty Co. Inc., The, New York, N. Y. Hosiery. No. 162,736; Sept. 12.
Hagen Drug Company. (See Hagen, Jacob P.)
Hagen, Jacob P., doing business as Hagen Drug Company, Cleveland, Ohio. Cough balsam or remedy for use in the treatment of coughs, croup, colds, etc. No. 162,739; Sept. 12.
Hall, H. S., & Co. Inc., Jersey City, N. J. Lace gloves. No. 162,339; Sept. 12.
Hamilton-Hill Veneer Co., Inc., assignor to The Edisto Veneer Co., Inc., Orangeburg, S. C. Lumber in the nature of foundation strips for veneered products, boxes, and crates. No. 153,139; Sept. 12.
Hardwood & Parquetry Floor Company, The. (See Mitchell, Harvey G.)
Hasbrouck, Ernest W., Boston, Mass. Furniture polish. No. 162,490; Sept. 12.
Herman, Joseph F., doing business as Herman Manufacturing Company, Washington, D. C. Chain connector. No. 159,262; Sept. 12.
Herman Manufacturing Company. (See Herman, Joseph F.)
Highland Manufacturing Company, Holyoke, Mass. Writing, typewriting, and printing papers, papeteries, writing, correspondence, and index cards, etc. No. 125,504; Sept. 12.
Hochschild Kohn & Co., Baltimore, Md. Hair nets. No. 167,080; Sept. 12.
Holland, Robert F., Asheville, N. C. Removable waterproof covers for wagons and rolling vehicles. No. 151,674; Sept. 12.
Horn, Charles W., Slatington, Pa. Liniment for sprains, bruises, and chilblains; cough sirup, liver pellets, corn relief, etc. No. 160,243; Sept. 12.
Imperial Pharmaceutical Company. (See Dryfuss, Barney J.)
J. H. C. Petersen's Sons Company, Davenport, Iowa. Negligee shirts, work shirts, overalls, and men's trousers. No. 154,615; Sept. 12.
Jacob, H., & Sons, Inc., Brooklyn, N. Y. Felt slippers. No. 163,934; Sept. 12.
James Shoe Mfg. Co., The, Milwaukee, Wis. Shoes made wholly or in part of leather. No. 165,383; Sept. 12.
Kauffman, Frederick A., Reading, Pa. Cough drops. No. 162,181; Sept. 12.
Kerr, John W., doing business as Sin-O'Lor Chemical Company, Inc., Los Angeles, Calif. Disinfectants and antiseptics. No. 160,950; Sept. 12.
Key Kno Company. (See White, Willard.)
Kirby, David D., doing business as The Peoria Chemical Co., Peoria, Ill. Medicinal preparation for venereal diseases. No. 162,634; Sept. 12.
Knapp Manufacturing Company, Lebanon, N. H. Receptacles for washing and cleaning solutions. No. 159,420; Sept. 12.
Kon-Stip-E-O Tablet Co., Ulster, Pa. Medicinal preparation for the treatment of constipation, prevention of appendicitis, etc. No. 162,822; Sept. 12.
Kopp, Freiden & Company, Omaha, Nebr. Ice-cream confections. No. 161,103; Sept. 12.
Lamson & Sessions Company, The, Cleveland, Ohio. Wire-rope clips. No. 166,743; Sept. 12.
Le Boeuf Fountain Pen Company, Inc., Springfield, Mass. Fountain pens. No. 163,804; Sept. 12.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Liudeke-Warner & Sons, Inc., St. Paul, Minn. Hair nets. No. 167,476; Sept. 12.
Linen Thread Co., The, doing business as The Finlayson Flax Spinning Co., Boston, Mass. Linen thread. No. 159,973; Sept. 12.
Livingston Cooperative Society, Livingston, Calif. Fresh deciduous fruits and grapes. No. 161,631; Sept. 12.
McAdam, Charles, Co., Chicago, Ill. Chemical compound for removing rust and other spots from fabrics. No. 149,018; Sept. 12.
McCarthy Bros., San Francisco, Calif. Tea. No. 161,137; Sept. 12.
Magee Furnace Company, Boston, Mass. Combination stoves or ranges heated by the burning of combustible fuel and electricity. No. 148,606; Sept. 12.
Mannken, Louis, doing business as Amsterdam Candy Co., Brooklyn, N. Y. Chocolate taffy. No. 161,787; Sept. 12.
Mars Grand Rug Co., The, Pawtucket, R. I. Rugs, carpets, and other textile floor coverings. No. 166,698; Sept. 12.
Marshall Field & Company, Chicago, Ill. Wilton rugs. No. 165,927; Sept. 12.
Marshall Field & Company, Chicago, Ill. Bedspreads and pillow shams. No. 165,935; Sept. 12.
Mattingly & Moore Distillery Co., Louisville, Ky. Whisky. No. 167,477; Sept. 12.
Mechanical Rubber Company, New York, N. Y., Chicago, Ill., and Cleveland, Ohio. Jar rings, rubber belting, hose, and packing. No. 147,036; Sept. 12.
Mendel-Drucker Company, The, Norwood, Ohio. Trunks. No. 161,693; Sept. 12.
Milleman, William H., doing business as American Soap Company, Oakland, Calif. Automobile and furniture polish. No. 137,263; Sept. 12.
Minneapolis Society for the Blind, The, Minneapolis, Minn. Woven baskets. No. 158,786; Sept. 12.
Mit-Shel Stamping Mfg. Co., Quincy, Ill. Poultry and hog equipment. No. 157,940; Sept. 12.
Mitchell, Harvey G., doing business as The Hardwood & Parquetry Floor Company, Philadelphia, Pa. Liquid polish for hardwood floor, furniture, etc. No. 156,454; Sept. 12.
Molyneux, Frank L., Painesville, Ohio. Cement for holding artificial teeth firmly in place. No. 162,234; Sept. 12.
Naamlooze Vennootschap Chemische Fabriek "Vanor" Hilversum, Netherlands. Remedy against foot-and-mouth diseases (murrain). No. 141,923; Sept. 12.
Newark Tortoise Shell Novelty Co., Newark, N. J. Clothes, hair, tooth, shoe, nail, and hat brushes. No 166,785; Sept. 12.
Nichols-Loomis Co., Los Angeles, Calif. Live stock and poultry feeds, family and bakers' wheat flour, etc. No. 154,990; Sept. 12.
North American Import Co., Chicago, Ill. Hair nets. No. 157,621; Sept. 12.
Nott, W. S., Company, Minneapolis, Minn. Pump leathers, cut lace, hose washers of leather, spiral packing of leather, etc. No. 109,299; Sept. 12.
Novia Blouse Co. Inc. (See Beerman & Frank, Inc.)
O-Jib-Wa's Indian Medicine Company. (See Shafe, Wilfred T.)
O. K. Manufacturing Company. (See Welch and Woodsum.)
Orange Crush Company, Chicago, Ill. Beverages, concentrates and compounds for making same. No. 157,531; Sept. 12.
Pacific Bone Coal & Fertilizer Co., San Francisco, Calif. Fertilizers. No. 162,565; Sept. 12.
Park Chemical Company, Detroit, Mich. Metal-hardening compounds. No. 162,766; Sept. 12.
Pearledent Chemical Laboratories. (See Bafalis, Arthur J.)
Pennsylvania Piston Ring Company, Cleveland, Ohio. Piston and packing rings. No. 146,732; Sept. 12.
Pennsylvania Range Boiler Co., Philadelphia, Pa. Range boilers. No. 162,135; Sept. 12.
Peoria Chemical Co. (See Kirby, David D.)
Pep Sand Company, Pittsburgh, Pa. Medically-treated insoluble sand for use by humans, animals, and fowl for perfecting digestion, etc. No. 162,504; Sept. 12.
Perlmann, Schal & Stern, New York, N. Y. Doilies. No. 166,953; Sept. 12.
Phillips Patents Limited, London, England. India rubber tips and pads for heels of boots and shoes. No. 162,047; Sept. 12.
Plant Marvel Laboratories. (See Denkewalter, Fred.)
Plax Company Inc., The, doing business as The Clax Company, New York, N. Y. Laxative tablets. No. 162,645; Sept. 12.
Poage-Wall Milling Company, The, Catlettsburg, Ky. Flour. No. 144,979; Sept. 12.
Primalt Products Co., Chicago, Ill. Malt sirup. No. 167,419; Sept. 12.
Reed, Howard, Marysville, Calif. Fresh pears and plums. No. 161,578; Sept. 12.
Reid, Joseph, Gas Engine Company, Oil City, Pa. Gas engines and gas-engine parts. No. 160,301; Sept. 12.
Reilly, Ellen, Spokane, Wash. Medicine for nervous diseases, epilepsy, and sleeplessness. No. 160,722; Sept. 12.
Remiller Co., The, New York, N. Y. Face rouge. No. 160,635; Sept. 12.
Richmond Lace Works, Alton, R. I. Lace in the piece. No. 145,858; Sept. 12.
Rio Grande Oil Company, El Paso, Tex. Gasoline, kerosene, distillate, gas oil, fuel oil, etc. No. 157,775; Sept. 12.
San Francisco Breweries Ltd., The, San Francisco, Calif. Nonalcoholic, maltless soft drinks. No. 167,366; Sept. 12.
Sanitary napkins. L. Deutsch. No. 139,153; Sept. 12.
Schoellkopf Co., The, Dallas, Tex. Shoe and boot linings (cut out), shoe and boot uppers, rubber and leather heels and soles, and canvas shoes. No. 151,101; Sept. 12.
Seidner & Hitzigrath Inc., New York, N. Y. Ladies' hair nets composed of human hair. No. 167,205; Sept. 12.
Seligman, N., Company. (See Seligman, Nathan.)
Seligman, Nathan, doing business as N. Seligman Company, New York, N. Y. Hair nets. No. 167,206; Sept. 12.
Seltzer, Theodore, doing business as Dr. Bengue, West Hoboken, N. J. Remedy for use in treatment of rheumatism, gout, neuralgia. No. 162,780; Sept. 12.
Shafe, Wilfred T., doing business as O-Jib-Wa's Indian Medicine Company, Flint, Mich. Medicinal bitters. No. 143,714; Sept. 12.
Sin-O'Lor Chemical Company. (See Kerr, John W.)
Sisman, Morris, Philadelphia, Pa. Medicinal and pharmaceutical preparations for use as a laxative, etc. No. 158,801; Sept. 12.
Smillie, Charles F., & Co., New York, N. Y. Carbonate of soda, caustic soda, soda ash, bichromate of soda, etc. No. 162,854; Sept. 12.
Smith, Karam, Co., Fort Wayne, Ind. Chemical remover for iron rust, mildew, fruit and medicine stains. No. 162,631; Sept. 12.
Société Anonyme des Etablissements Justin Dupont, Argenteuil, France, assignor to Justin Dupont, Inc., New York, N. Y. Synthetic oils and aromatic chemicals used in the production of perfumes. No. 152,721; Sept. 12.
Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 135,871; Sept. 12.
Sonneborn, Henry, & Co., Inc., Baltimore, Md. Shoes of leather, fabric, and combinations of leather and fabric. No. 152,725; Sept. 12.
Stack Heater Company, Boston, Mass. Water heaters heated by gas, oil, or vapor. No. 164,466; Sept. 12.
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Lubricating oils. Nos. 159,121–30; Sept. 12.
Standard Oil Company of New York, New York, N. Y. Medicinal oils for the treatment of constipation, laundry wax, petrolatum, etc. No. 162,900; Sept. 12.
Stephens, A. J., Rubber Co., Kansas City, Mo. Subcasings of fabric, rubber, and gum for tires. No. 161,944; Sept. 12.
Strevell-Paterson Hardware Co., Salt Lake City, Utah. Blow-out patches, fruit-jar rubbers, and garden hose. No. 148,766; Sept. 12.
Tarrant Company, The, New York, N. Y. Medicine for venereal diseases. No. 162,908; Sept. 12.
Theobald Flour Mills Co., The, Northfield, Minn. Wheat flour. No. 132,127; Sept. 12.
Tower Fish Company, Boston, Mass. Dried, smoked, and pickled fish. No. 161,156; Sept. 12.
Tribble, Robert A., doing business as The Groceriane Stores Association, Cedarbluff, Miss. Canned corn and peas, wheat flour, and coffee. No. 137,503; Sept. 12.
Trinity Chemical Corporation, White Plains, N. Y. Preparation for removing paint, varnish, shellac, etc., from floors, woodwork, etc., and for cleaning brushes and removing wall paper. No. 160,445; Sept. 12.
Turlington Chemical Company, The, Baltimore, Md. Remedy for tender sweaty feet, perspiration odors, callous, and corns. No. 160,373; Sept. 12.
Turner and Walls, New York, N. Y. Silk, cotton, and wool piece goods and combinations of same. No. 163,719; Sept. 12.
United Alloy Steel Corporation, New York, N. Y., and Canton, Ohio. Steel roofing, siding, and ceilings, metal lathe and lumber, etc. No. 154,897; Sept. 12.
United States Graphite Company, The, Saginaw, Mich. Paint pigment. No. 159,631; Sept. 12.
United States Gypsum Company, Chicago, Ill. Agricultural gypsum and land plaster. No. 159,446; Sept. 12.
Utility Rubber Goods Company, The, Cleveland, Ohio. Bathing suits. No. 160,374; Sept. 12.
Vanity Fair Silk Mills, Reading, Pa. Clothing. No. 162,595; Sept. 12.
Vegolene Co., The, Bellingham, Wash. Table sirup. No. 161,602; Sept. 12.
Virden Packing Co., South San Francisco, Calif. Canned fish—viz, salmon. No. 161,160; Sept. 12.
Walther, Louis, Manufacturing Company, Philadelphia, Pa. Wool fabrics in the piece. No. 167,835; Sept. 12.
Weil-Ransom Co., Chicago, Ill. Wool dusters. No. 166,018; Sept. 12.
Welch and Woodsum, doing business as O. K. Manufacturing Company, Haverhill, Mass. Toothache drops. No. 159,912; Sept. 12.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Western Bottle Manufacturing Company, Chicago, Ill. Handkerchiefs. No. 165,975; Sept. 12.
Wheeler Manufacturing Co., Berkeley, Calif. Sport caps, rooters' caps, and college hats. No. 162,276; Sept. 12.
White Tar Company, The, New York, N. Y. Mothproof garment bags. No. 159,231; Sept. 12.
White, Willard, doing business as Kee Kno Company, Boise, Idaho. Ready-mixed paints. No. 156,247; Sept. 12.
Wickwire Spencer Steel Corporation, Worcester, Mass. Barbed-wire cashier cages and stock-room inclosures, and clips for wire-rope clamps, etc. No. 145,144; Sept. 12.
Wickwire Spencer Steel Corporation, Worcester, Mass. Wire lathing and welded sheathing. No. 153,192; Sept. 12.
Winthrop Fruit Co., Yakima, Wash. Fresh apples and pears. No. 161,162; Sept. 12.
Witchell-Sheill Company, Detroit, Mich. Leather shoes. No. 154,072; Sept. 12.
Yorke Shirt Company, The, Glens Falls and New York, N. Y. Men's outer shirts. No. 162,368; Sept. 12.
Zinsser, William, & Company, Incorporated, New York, N. Y. Sponges, cotton waste, and shellac gums. No. 164,848; Sept. 12.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 12TH DAY OF SEPTEMBER, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Account sheet. W. P. Jenkins and W. D. Woolley. No. 1,428,592; Sept. 12.
Acetaldehyde from acetylene, Production of. L. E. M. Trevoux. No. 1,428,608; Sept. 12.
Acid and heat from waste gases coming from boilers for cellulose, Recuperation of the sulphurous. H. Clemm and C. Hangleiter. No. 1,429,128; Sept. 12.
Acid phosphate or superphosphate, Apparatus for manufacturing. T. J. Sturtevant. Nos. 1,428,920–2; Sept. 12.
Acid purification, Apparatus for nitric-. G. H. Tozier. No. 1,429,177; Sept. 12.
Acids with several double linkages or of their glycerides into oleic acidlike fatty acids or their soaps, Conversion of fatty. C. Stiepel. No. 1,429,114; Sept. 12.
Acids, Treating sludge. I. Hechenbleikner and T. C. Oliver. No. 1,429,140; Sept. 12.
Adding and recording machine. W. S. Gubelmann. Nos. 1,429,201–2; Sept. 12.
Adding machine. H. Landsiedel. No. 1,428,787; Sept. 12.
Adjustable jack. O. C. Dennis. No. 1,428,535; Sept. 12.
Advertising machine. R. E. Hinchey. No. 1,429,205; Sept. 12.
Aerofoil. P. Schwamb and P. Eberhardt. No. 1,428,714; Sept. 12.
Aeroplane motor fuel. W. T. Schreiber. No. 1,428,913; Sept. 12.
Agglutinate elements, Process of and apparatus for the mollification and disintegration of. T. M. Slough. No. 1,428,991; Sept. 12.
Agitator handle. C. E. Farrington. No. 1,429,071; Sept. 12.
Agricultural implement. W. C. Warren and G. L. Kier. No. 1,429,054; Sept. 12.
Air and other gases, Apparatus for cleaning. H. N. Edens. No. 1,428,950; Sept. 12.
Air cooler. R. N. Richardson. No. 1,428,661; Sept. 12.
Alkali-metal monochromates into bichromates or chromic acid, Transforming. G. N. Vis. No. 1,429,001; Sept. 12.
Alloy, Steel and iron. P. de Clamecy. No. 1,428,534; Sept. 12.
Animal trap. C. G. Anderson. No. 1,429,011; Sept. 12.
Animal traps, Jaw for. A. M. Ahern. No. 1,428,512; Sept. 12.
Animals in process of slaughtering, Method and apparatus for removing blood from. J. A. Wilson. No. 1,428,672; Sept. 12.
Arms, Clamping device for artificial. O. Semeleder. No. 1,429,111; Sept. 12.
Article retainer. H. Fulton. No. 1,429,027; Sept. 12.
Auto brake. R. P. Pesmich. No. 1,428,802; Sept. 12.
Auto luggage carrier. E. Sheer. No. 1,429,112; Sept. 12.
Automatic wrench. H. Johnston. No. 1,428,546; Sept. 12.
Automobile. W. F. Schoenhard. No. 1,428,713; Sept. 12.
Automobile batteries and generators, Protective device for. F. C. Wassman and E. Kendall. No. 1,428,727; Sept. 12.
Automobile decking, System of. G. M. Graham. No. 1,428,842; Sept. 12.
Automobile lock. H. T. Thomas. No. 1,428,720; Sept. 12.
Automobile locking device. G. W. Wright and T. J. Pension. No. 1,429,181; Sept. 12.
Automobile radiator. J. Haydusek and M. Husarcik. No. 1,428,779; Sept. 12.
Automobile radiator. T. F. Payne. No. 1,428,901; Sept. 12.
Automobile radiators, Shutter for. J. E. Messenger. No. 1,428,647; Sept. 12.
Automobile turntable, Traveling. J. R. Pillow. No. 1,428,977; Sept. 12.
Automobile wind deflector. J. P. Gray. No. 1,428,844; Sept. 12.
Automobiles, Pedal attachment for. F. C. and F. Z. Grant. No. 1,428,843; Sept. 12.
Automobiles, Steering gear for. D. W. Jones. Nos. 1,429,142–3; Sept. 12.
Bag: *See*—
Shopping bag.
Bag fastener. F. A. Fuller. No. 1,429,073; Sept. 12.
Baggage carrier. J. H. Dyett. No. 1,429,197; Sept. 12.
Bag-tying machine. L. D. Nelson. No. 1,429,160; Sept. 12.
Balance, Magnetic. T. S. Bindschedler. No. 1,428,833; Sept. 12.
Ball-and-socket joint. I. D. Shaw. No. 1,428,715; Sept. 12.
Banks, Preventing the undermining of water-washed. O. S. Schiefele. No. 1,428,808; Sept. 12.
Barium chloride, Producing. J. H. MacMahon. No. 1,428,646; Sept. 12.
Beam heads, Making. F. Mossberg. No. 1,428,970; Sept. 12.
Bearing. A. Kingsbury. No. 1,428,640; Sept. 12.
Bearings, Attachment for. J. A. Anderson. No. 1,428,513; Sept. 12.
Bed. G. R. McAllaster. No. 1,429,150; Sept. 12.
Bed and tent, Combination auto. S. A. Miller. No. 1,428,897; Sept. 12.
Bed, Hospital. A. M. Kirby. No. 1,429,080; Sept. 12.
Beds, Hinge for folding. H. U. Crain. No. 1,428,759; Sept. 12.
Belt, Conveyer. E. J Brennan. No. 1,428,878; Sept. 12.
Belt splice. F. F. Snyder. No. 1,428,917; Sept. 12.
Bicycle. G. W. Sage, jr. No. 1,429,107; Sept. 12.
Bicycle steering head. J. J. McGuckin. No. 1,428,601; Sept. 12.
Binder, Staple. B. Jahn and E. E. Kahl. No. 1,428,694; Sept. 12.
Binding clip. F. M. Ashley. No. 1,429,182; Sept. 12.
Bit: *See*—
Drilling bit. Fishtail bit.
Blank-cutting machine. W. Fuhr. No. 1,428,952; Sept. 12.
Board: *See*—
Ironing board. Plaster board.
Boilers, Stay-bolt structure for. E. I. Dodds. Nos. 1,428,536–7; Sept. 12.
Boilers, Stay-bolt structure for. J. R. Flannery. No. 1,428,541; Sept. 12.
Bolt-retaining device. G. B. Thomas. No. 1,429,117; Sept. 12.
Bookholder. W. V. Coate. No. 1,428,757; Sept. 12.
Bottle. J. J. Midson. No. 1,428,969; Sept. 12.
Bottles, Spring shield for nursing. A. J. Fawcett. No. 1,429,198; Sept. 12.
Bottle-supporting frame, Nursing-. I. B. Cowles. No. 1,428,758; Sept. 12.
Bowls, Clamping device for drinking. R. Ackerman. No. 1,428,577; Sept. 12.
Box: *See*—
Electrical outlet box. Nonresalable box.
Folding box. Safety panel box.
Box cover, Iron-bound. S. J. Gunn. No. 1,429,134; Sept. 12.
Brace: *See*—
Broom brace.
Brake: *See*—
Auto brake. Fluid-pressure brake.
Brake. W. R. Abell. No. 1,428,673; Sept. 12.
Bracket and shelf, Adjustable. S. Liakow. No. 1,429,042; Sept. 12.
Broom brace. A. L. Shipman. No. 1,429,171; Sept. 12.
Buckle. J. Heberling. No. 1,429,139; Sept. 12.
Buckle, Belt. A. H. Metcalf. No. 1,429,155; Sept. 12.
Buckle, Strap and belt tightening. W. W. Robinson. No. 1,428,560; Sept. 12.
Building blocks, Composition for. R. C. Sheaffer. No. 1,428,811; Sept. 12.
Burner: *See*—
Fuel burner. Oil burner.
Bushing remover. R. K. Starkey. No. 1,428,815; Sept. 12.
Cabinet and dressing tray, Combined wall. E. O. Hall. No. 1,428,957; Sept. 12.
Cabinet, Disk-record. S. S. Ward. No. 1,429,052; Sept. 12.
Cable beads or grommets, Manufacturing. F. H. Peyea. Nos. 1,429,123–4; Sept. 12.
Calcium arsenate, Manufacture of. C. B. Dickey. No. 1,428,946; Sept. 12.
Calculating machines, Locking device for. W. Augustin. No. 1,428,831; Sept. 12.
Calendar. P. C. Pethick. No. 1,429,066; Sept. 12.
Candle, Ornamented. J. E. Brinker and C. P. McNeil. No. 1,428,940; Sept. 12.
Candy-dipping device. I. Anderson. No. 1,428,872; Sept. 12.
Can-closing machine. E. D. Smith. No. 1,428,992; Sept. 12.
Can-feeding apparatus. K. W. Emerson. No. 1,428,883; Sept. 12.
Canned goods Shipping box for. R. L. Lemon. No. 1,428,597; Sept. 12.
Carburetor. H. G. Renner. No. 1,428,558; Sept. 12.
Carburetor choker and switch mechanism, Combination. M. A. Simon. No. 1,428,812; Sept. 12.

Car coupling. H. M. Brown. No. 1,429,186; Sept. 12.
Car door lock and opener, Combined. A. T. Kuehner. No. No. 1,428,785; Sept. 12.
Car, Mine. C. Sebbus. No. 1,428,985; Sept. 12.
Car roof. W. H. Slatten. No. 1,428,989; Sept. 12.
Car, Self-discharging. W. Winter and G. Immand. No. 1,429,056; Sept. 12.
Cars, End reenforcement for railway. V. E. Sisson. No. 1,428,614; Sept. 12.
Cars in mines, Method of and means for locomotive transportation of coal. J. F. Joy. No. 1,429,145; Sept. 12.
Cars, Pull mechanism for railway. C. V. Rote. No. 1,428,983; Sept. 12.
Carrier: *See*—
Auto luggage carrier. Luggage carrier.
Baggage carrier.
Case: *See*—
Sanitary case.
Caster. C. E. Bunker. No. 1,429,187; Sept. 12.
Caster. A. K. Nixon. No. 1,428,899; Sept. 12.
Caster lock. M. F. Bayer. No. 1,428,932; Sept. 12.
Casting. H. A. Schwartz. No. 1,428,987; Sept. 12.
Catalytic material employed for the promotion of synthetic chemical reactions, Apparatus for carrying out the preparation of. H. Lane. No. 1,428,965; Sept. 12.
Cellulose-ether solvent and composition. S. J. Carroll. No. 1,429,188; Sept. 12.
Cellulose-ether composition. P. C. Seel. No. 1,429,169; Sept. 12.
Cellulose esters and ethers, Composition and film containing mixtures of. L. J. Malone. No. 1,429,153; Sept. 12.
Chair: *See*—
Combination chair. Toilet chair.
Motor chair.
Chair and canopy therefor, Collapsible camp. A. Martin. No. 1,429,043; Sept. 12.
Chairs, Detachable tray for high. C. J. Snideman. No. 1,428,916; Sept. 12.
Cherry pitter. G. O. Lawson. No. 1,428,789; Sept. 12.
Cheese, Treating. P. Malekow. No. 1,428,602; Sept. 12.
Chlorinated products of toluene and dyestuffs therefrom, Manufacture or production of. J. Schmidlin. No. 1,428,984; Sept. 12.
Chuck, Ring. J. R. Ueckert. No. 1,428,868; Sept. 12.
Chuck, Tool. J. Carr. No. 1,428,754; Sept. 12.
Circuit breaker, Extra-quick-acting. E. Vedovelli. No. 1,428,821; Sept. 12.
Circuit controller, Fluid-actuated. G. P. McDonnell. No. 1,428,645; Sept. 12.
Circuit-interrupting mechanism. M. V. Cornica. No. 1,429,062; Sept. 12.
Circuit with instantaneous disconnect and recall, Trunk. H. D. Currier. No. 1,428,761; Sept. 12.
Circuits, Testing and adjusting apparatus for cord. W. H. Harrison. No. 1,428,631; Sept. 12.
Circuits, Testing and adjusting apparatus for cord. J. F. Toomey. No. 1,428,867; Sept. 12.
Clamp: *See*—
Newspaper clamp.
Clamp. W. B. Bowman. No. 1,428,877; Sept. 12.
Clamp. J. W. Parker. No. 1,428,608; Sept. 12.
Clarifier. O. M. Nelson. No. 1,428,798; Sept. 12.
Clasp. S. Buchsbaum. No. 1,428,678; Sept. 12.
Cleaner: *See*—
Vacuum cleaner.
Cleaning and plating apparatus. G. W. Schweinsberg. No. 1,428,563; Sept. 12.
Cleaning device. W. H. Rose. Nos. 1,428,806–7; Sept. 12.
Clip: *See*—
Binding clip.
Clip. J. W. Kessel. No. 1,429,037; Sept. 12.
Closets, Appliance for flushing. H. F. Neumeyer. No. 1,428,971; Sept. 12.
Clock, Automobile. W. E. Porter. No. 1,428,902; Sept. 12.
Cock, Gas. J. E. Bean, jr. No. 1,428,933; Sept. 12.
Coin selector, Automatic. D. Hendrickson. No. 1,428,632; Sept. 12.
Coke oven with sole firing, By-product. B. Zwillinger. No. 1,428,621; Sept. 12.
Coke oven, Sole-heated. B. Zwillinger. No. 1,428,622; Sept. 12.
Colters and the like, Yoke construction for rolling. R. J. Altgelt. No. 1,428,518; Sept. 12.
Combination chair. S. Plesec. No. 1,428,804; Sept. 12.
Commutator cylinder. C. W. Starker. No. 1,428,865; Sept. 12.
Compounds preferably of a hydrocarbon nature, Method and apparatus for treating or converting. W. J. Knox. No. 1,428,641; Sept. 12.
Compressor, Spring. F. Timmerman. No. 1,428,566; Sept. 12.
Compressor unloader. S. B. Redfield. No. 1,428,981; Sept. 12.
Concrete bodies, Anchoring means for. J. M. Fox. No. 1,428,771; Sept. 12.
Concrete-culvert form. H. B. Cox. No. 1,429,021; Sept. 12.
Concrete mixer. T. Byrne, jr. No. 1,428,941; Sept. 12.
Condenser. C. A. Wettengel. No. 1,429,214; Sept. 12.
Control system, Pneumatic. J. H. Langley. No. 1,428,643; Sept. 12.
Conveyer. E. A. Towne. No. 1,428,721; Sept. 12.
Cooker, Electric. G. H. Bindon. No. 1,428,825; Sept. 12.
Cooler: *See*—
Air cooler. Water cooler.
Copyholder. T. H. Bishop. No. 1,428,938; Sept. 12.
Copyholder, Book-holding. T. H. Bishop. No. 1,428,937; Sept. 12.
Core making. W. A. Smith. No. 1,428,993; Sept. 12.
Cot and table, Convertible. C. and F. W. Lamble. No. 1,428,642; Sept. 12.
Cotton press, Double-box. J. M. Peerson. No. 1,428,610; Sept. 12.
Cotton sampler. W. C. Pitts and R. H. Haines. No. 1,428,978; Sept. 12.
Couch roll. T. A. Cuish, jr. No. 1,428,760; Sept. 12.
Coupling: *See*—
Car coupling. Hose coupling.
Flexible coupling. Shaft coupling.
Coupling. P. Krüger. No. 1,428,596; Sept. 12.
Cradle, Self-moving. A. Hudoba. No. 1,428,961; Sept. 12.
Crane, Boat. F. R. Zimmerman. No. 1,428,809; Sept. 12.
Crane, Portable. E. N. Heacock. No. 1,428,887; Sept. 12.
Crank shaft, Built-up. F. A. Jimerson. No. 1,428,847; Sept. 12.
Crank shafts and the like, Method and apparatus for balancing. C. L. Wilber. No. 1,428,620; Sept. 12.
Cribbing. P. Kircher. No. 1,428,595; Sept. 12.
Crosshead. J. Kindervater. No. 1,428,695; Sept. 12.
Culinary implement. E. Nicolussi. No. 1,428,703; Sept. 12.
Curtain rod and rod support. W. A. Newell. No. 1,428,972; Sept. 12.
Cutter: *See*—
Pipe cutter. Stalk cutter.
Cutting device and receptacle therefor. S. Oberlander. No. 1,429,162; Sept. 12.
Damper. C. B. Coalwell. No. 1,429,190; Sept. 12.
Danger signal for mines. R. W. Lightburn. No. 1,429,211; Sept. 12.
Dilator combination. P. Nick. No. 1,428,653; Sept. 12.
Depth or liquid-level gauge. C. Abrahams. No. 1,428,576; Sept. 12.
Dextrine, Method of and apparatus for manufacturing. J. J. Merrill. No. 1,428,604; Sept. 12.
Die structure. E. J. L. Granlow. No. 1,428,777; Sept. 12.
Dishwasher. F. H. Dunn. No. 1,429,069; Sept. 12.
Disk wheel. R. P. Allison. Nos. 1,428,741–2; Sept. 12.
Display cabinet. G. Pivar. No. 1,428,857; Sept. 12.
Display card, Individual-package. L. H. Junker. No. 1,428,783; Sept. 12.
Display rack. E. R. Weston. No. 1,428,730; Sept. 12.
Doll. E. Barry. No. 1,428,677; Sept. 12.
Door. A. L. Cresci. No. 1,429,063; Sept. 12.
Door-operating mechanism, Dump-. J. O. Neikirk. No. 1,428,650; Sept. 12.
Doors, Mechanism for operating sliding. E. J. G. Phillips. No. 1,428,555; Sept. 12.
Dowel pin. P. Fotacos. No. 1,429,200; Sept. 12.
Draft regulator. W. W. Smalley. No. 1,428,664; Sept. 12.
Drilling bit. W. A. Legate. No. 1,429,041; Sept. 12.
Driving mechanism. C. F. Gilchrist. No. 1,429,028; Sept. 12.
Driving mechanism, Intermittent. B. L. Van Orman. No. 1,428,724; Sept. 12.
Drying apparatus, Portable. T. Johnsen. No. 1,428,593; Sept. 12.
Dump body, Multiple-section. H. A. Worcester. No. 1,428,930; Sept. 12.
Dust collector. A. J. Wilharm. No. 1,429,006; Sept. 12.
Edges, Method and apparatus for filling roll. D. Micon. No. 1,428,796; Sept. 12.
Egg separator. B. Kainer. No. 1,428,594; Sept. 12.
Electric furnace. I. Rennerfelt. Nos. 1,428,908–9; Sept. 12.
Electric-light fixture. G. E. Villaret. No. 15,455; Sept. 12.
Electric-machine construction, Dynamo-. C. E. Johnson. No. 1,428,889; Sept. 12.
Electric-switch casing. P. S. Grierson. No. 1,429,133; Sept. 12.
Electrical connection. H. M. Smith. No. 1,428,863; Sept. 12.
Electrical devices, Tester for. W. Weinberg. No. 1,429,002; Sept. 12.
Electrical outlet box. S. L. Sopenoff and M. Katcher. No. 1,429,172; Sept. 12.
Electrode for precipitating apparatus, Ionizing. C. L. Fortescue. No. 1,428,839; Sept. 12.
Electromagnetic contact device. V. C. Wynne. No. 1,429,009; Sept. 12.
Electroplating barrel and catcher. E. A. Severance. No. 1,429,170; Sept. 12.
Elevator cables, Suspension device for equalizing the strain on. J. E. Evans. No. 1,429,070; Sept. 12.
Elevator-car construction. R. W. Disbro. No. 1,429,194; Sept. 12.
Engine: *See*—
Internal-combustion engine.
Engine compression regulator. P. M. Freer. No. 1,428,772; Sept. 12.
Engine piston. E. Mullern. No. 1,428,552; Sept. 12.
Engine starter. J. Schaefer. No. 1,428,912; Sept. 12.
Engines, Head cover for internal-combustion. G. O. Blanchard. No. 1,429,014; Sept. 12.
Engines, Means for lubricating internal-combustion. G. Constantinesco. No. 1,428,682; Sept. 12.
Engines, Sectional piston for. H. Petersen. No. 1,428,656; Sept. 12.

Engines, Short-circuit terminal for the magneto-electric ignition apparatus of internal-combustion. G. Steiner. No. 1,428,806; Sept. 12.
Engines, Supercharger for internal-combustion. C. C. Thomas. Nos. 1,428,924–5; Sept. 12.
Engines, Water circulator for water-cooled. F. B. Upton and W. C. Kirk. No. 1,428,722; Sept. 12.
Escapement, Gas-meter, of the rotary type. L. Larsen. No. 1,428,788; Sept. 12.
Excavator and loader. W. Ferris. No. 1,428,540; Sept. 12.
Exhibiting apparatus. C. M. Farber. No. 1,428,766; Sept. 12.
Explosion motors, Efficiency indicator for. H. H. Davis. No. 1,429,192; Sept. 12.
Eyeglasses, Shell frame for. J. H. Brown. No. 1,428,749; Sept. 12.
Faucet. E. Bittel. No. 1,428,826; Sept. 12.
Faucet, Water-heating. O. F. Bruman. No. 1,429,060; Sept. 12.
Feeder, Dewatering and settling tank. J. R. Wilkinson, E. A. Barnard, and L. E. Booth. No. 1,429,929; Sept. 12.
Fence. J. E. Loeffler. No. 1,429,084; Sept. 12.
Fertilizer material, and producing same. A. F. Hoffman. No. 1,428,633; Sept. 12.
Films, Treating. W. R. Webb. No. 1,429,179; Sept. 12.
Fire pot. F. L. Lindhorst. No. 1,428,790; Sept. 12.
Fire stop. R. M. Dyar. No. 1,428,881; Sept. 12.
Fireplace. J. Beckett. No. 1,429,184; Sept. 12.
Fishtail bit. W. R. Gardner. No. 1,428,774; Sept. 12.
Flexible coupling. M. R. Karge. No. 1,429,147; Sept. 12.
Floor form. L. H. Garlinghouse. No. 1,428,953; Sept. 12.
Flour, Prepared. W. P. M. Greick. No. 1,428,628; Sept. 12.
Fluid-pressure brake. T. H. Thomas. No. 1,428,907; Sept. 12.
Flushing apparatus. W. Weber. No. 1,428,728; Sept. 12.
Flying-machine wings, Sustaining element or feather for. F. M. Rilleau. No. 1,428,559; Sept. 12.
Foghorn for motor crafts. O. Håkonsen. No. 1,428,587; Sept. 12.
Folding box. E. G. Gereke. (Reissue.) No. 15,453; Sept. 12.
Frame: *See*—
Saw frame.
Fruit conveyer. G. R. Paranteau. No. 1,429,093; Sept. 12.
Fruit-transferring device. G. R. Paranteau. No. 1,429,092; Sept. 12.
Fuel burner. H. O'Neill and E. Fandrich. No. 1,429,090; Sept. 12.
Fuel-control system. F. L. McGahan. No. 1,428,793; Sept. 12.
Furnace: *See*—
Electric furnace. Hot-air furnace.
Furnace-bridge wall construction. F. A. Hurlbut. No. 1,428,636; Sept. 12.
Furnace control mechanism. C. R. Abbott. No. 1,428,516; Sept. 12.
Furnace-door pedal. L. Schaumburger and H. H. Clark. No. 1,429,108; Sept. 12.
Furnaces, Operating electric. I. Rennerfelt. No. 1,428,910; Sept. 12.
Furniture, In-a-wall. J. P. Prost. No. 1,428,707; Sept. 12.
Fuse, Renewable. J. L. Fay. No. 1,428,768; Sept. 12.
Gas and product thereof, Treating natural. H. E. Thompson. No. 1,429,175; Sept. 12.
Gaseous mixture of $CH_4 + H$, Apparatus and method for the production of a. L. Colson. No. 1,428,879; Sept. 12.
Gauge: *See*—
Depth or liquid level gauge. Plug gauge.
Gauge. A. M. Guillet. No. 1,428,690; Sept. 12.
Gauge, more particularly for use for gauging tapered holes. B. Draper. No. 1,428,948; Sept. 12.
Gate. H. S. Rand. No. 1,428,904; Sept. 12.
Gear case for jackshafts. H. A. Houston. No. 1,428,846; Sept. 12.
Gear, Differential. D. E. Ross. No. 1,429,100; Sept. 12.
Glass, Apparatus for and method of drawing sheet. J. F. Crowley. No. 1,428,533; Sept. 12.
Glass, Apparatus for and method of producing charges of molten. L. D. Soutier. No. 1,428,994; Sept. 12.
Glass articles, Apparatus for manufacturing. W. J. Miller. No. 1,428,855; Sept. 12.
Glass-fastening device. M. Grossman. No. 1,428,955; Sept. 12.
Glass-grinding machine. E. A. Ryon. No. 1,429,106; Sept. 12.
Glass, Process and apparatus for making sheet. J. C. Crowley. (Reissue.) No. 15,452; Sept. 12.
Grain chute. H. W. Davisson. No. 1,428,763; Sept. 12.
Grain crib. G. B. Read. No. 1,428,710; Sept. 12.
Grain separator. P. H. Vaughn. No. 1,428,926; Sept. 12.
Grease cup and bushing anchor, Nondisplaceable. L. H. Stroud. No. 1,429,115; Sept. 12.
Grinder. J. A. Gutenson. No. 1,429,135; Sept. 12.
Grinding machine, Electrically-driven. H. W. Dunbar and A. Turner. No. 1,429,025; Sept. 12.
Guide. I. A. Rommer. No. 1,429,166; Sept. 12.
Gun mounted on endless tracks for varying the height of the line of fire of the gun, Trail carriage. E. Schneider. No. 1,429,109; Sept. 12.
Gun, Putty. V. W. J. Coffin. No. 1,429,019; Sept. 12.
Gun with laterally-adjustable barrel. R. Schürmann. No. 1,428,611; Sept. 12.
Hair clipper, Power-driven. J. Campbell. No. 1,428,836; Sept. 12.
Hair curler. A. Schärer. No. 1,429,167; Sept. 12.
Hair waver. G. A. Fraus. No. 1,428,585; Sept. 12.
Hammer. M. D. Davis. No. 1,429,838; Sept. 12.
Hammer, Electric. L. Paulero. No. 1,429,094; Sept. 12.
Hammer, Power. W. E. Sheehy. No. 1,428,612; Sept. 12.
Handle: *See*—
Agitator handle.
Handrail column. J. G. Blunt. No. 1,428,746; Sept. 12.
Hanger: *See*—
Radiator hanger.
Hat, Fringed. L. Krause. No. 1,428,891; Sept. 12.
Hat-machine press. J. Lake, jr. No. 1,429,083; Sept. 12.
Harvester, Bean. F. V. Scott. No. 1,429,168; Sept. 12.
Headlight. C. C. Somers. No. 1,429,113; Sept. 12.
Headlight, Automobile. B. Stern. No. 1,429,173; Sept. 12.
Headlight for motor vehicles, Dirigible. E. T. Ramsay. No. 1,428,859; Sept. 12.
Headlight screen. E. W. Lodge. No. 1,428,895; Sept. 12.
Headlight, Vehicle. W. D. Ryan. No. 1,428,662; Sept. 12.
Heater. A. R. J. Dearden. No. 1,429,193; Sept. 12.
Heat-exchanging bodies, Production of. H. F. B. Jörgensen. No. 1,428,638; Sept. 12.
Heating apparatus. A. McGary. No. 1,429,085; Sept. 12.
Heating apparatus. R. P. Wise. No. 1,429,121; Sept. 12.
Heating device. A. E. Dutton. No. 1,429,130; Sept. 12.
Heat interchanger. A. R. Lawrence. No. 1,429,149; Sept. 12.
Hemoglobinometers, Prism for. K. Fuchs. No. 1,429,072; Sept. 12.
Hitch device. R. J. Altgelt. No. 1,428,517; Sept. 12.
Hitch, Shifting. J. C. Porterfield. No. 1,428,903; Sept. 12.
Hoe. C. H. Clark. No. 1,428,680; Sept. 12.
Hoe, Wheel. C. E. Curtiss. No. 1,428,581; Sept. 12.
Hoisting and conveying device. D. S. Andrews. No. 1,429,012; Sept. 12.
Hoisting apparatus. W. H. Insley and A. C. Rasmussen. No. 1,428,888; Sept. 12.
Hoisting apparatus. A. C. Rasmussen and C. G. Schmid. No. 1,428,906; Sept. 12.
Hoist, Piano. S. B. Bilger. No. 1,428,875; Sept. 12.
Hook: *See*—
Releasable hook.
Hopper, Portable. P. Neary. No. 1,428,605; Sept. 12.
Hose coupling. J. P. Eastman. No. 1,428,949; Sept. 12.
Hot-air furnace. A. L. Smith. No. 1,428,665; Sept. 12.
Ice anchor. J. P. Lacour. No. 1,429,210; Sept. 12.
Ice cakes, Apparatus for molding. W. Latham. No. 1,428,892; Sept. 12.
Ice into snow, Device for transforming. J. Anderson. No. 1,428,829; Sept. 12.
Igniter, Vulcanizer. H. A. Sheetz, jr. No. 1,428,862; Sept. 12.
Ignition system. J. H. Hunt. No. 1,428,635; Sept. 12.
Inaccessible point, Process and apparatus for determining the position of an. E. J. A. Schuits. No. 1,428,861; Sept. 12.
Incubator. W. W. Smith. No. 1,428,813; Sept. 12.
Indicator: *See*—
Motor direction indicator. Vehicle direction indicator.
Speed indicator.
Ink distributor. H. H. Kreiling. No. 1,429,148; Sept. 12.
Insulation, Furnace-base. C. R. Kline. No. 1,428,548; Sept. 12.
Insulator. H. D. Seavey. No. 1,429,110; Sept. 12.
Insulator, Split. C. W. Kettron. No. 1,429,079; Sept. 12.
Intake and exhaust manifold, Combined. E. W. Graef. No. 1,428,841; Sept. 12.
Intermittent-feeding mechanism. M. J. Vinik. No. 1,428,927; Sept. 12.
Internal-combustion engine. G. J. Carter and L. G. McFarlane. No. 1,429,016; Sept. 12.
Internal-combustion engine. A. L. Nelson. No. 1,429,159; Sept. 12.
Internal-combustion engine. F. R. Porter. No. 1,428,858; Sept. 12.
Internal-combustion engine. J. T. Ramsey. No. 1,429,164; Sept. 12.
Internal-combustion engine, Two-cycle. J. Hutchinson. No. 1,429,078; Sept. 12.
Iron arrangement, Carry-. F. B. Ernst. No. 1,428,685; Sept. 12.
Ironing-board attachment. M. E. Koehler. No. 1,429,081; Sept. 12.
Ironing board, Cabinet. F. W. Massick. No. 1,428,967; Sept. 12.
Iron oxide and other products from spent iron sludge, Recovering. C. V. Bacon. No. 1,428,521; Sept. 12.
Jack: *See*—
Adjustable jack. Oil-well pump jack.
Lifting jack. Vehicle jack.
Joint casing, Universal. B. B. Neuteboom. No. 1,428,799; Sept. 12.
Joint or connection. A. Lysiak. No. 1,428,792; Sept. 12.
Knitted glove and making same. G. P. Bosworth. No. 1,428,939; Sept. 12.
Knitting machines, Yarn stand for. E. M. Witherell. No. 1,428,573; Sept. 12.
Lamps, Control mechanism for. E. M. Olson. No. 1,428,974; Sept. 12.
Lamp, Electric. A. E. Case. No. 1,428,755; Sept. 12.

Lamps, Electric resistance for regulating the candlepower of electric incandescent. G. J. Bjerre. No. 1,428,834; Sept. 12.
Lamps, Nonglaring device for. F. J. Dole. No. 1,429,067; Sept. 12.
Lantern. M. H. Terry. No. 1,428,923; Sept. 12.
Lantern, Railway. E. D. Griffith. No. 1,429,074; Sept. 12.
Lap. L. S. Rasmussen and H. B. Carlson. No. 1,428,658; Sept. 12.
Latex, Process and apparatus for treating. C. E. Bradley and J. G. Coffin. No. 1,428,526; Sept. 12.
Lathe. G. D. Sundstrand. No. 1,428,816; Sept. 12.
Lawn-edge trimmer. W. Lenehan. No. 1,428,696; Sept. 12.
Lever, Hand. C. Esping. No. 1,428,951; Sept. 12.
Lever, Latch. J. P. Seaholm. No. 1,428,988; Sept. 12.
Lever switch lock, Safety. J. O. Norris. No. 1,428,800; Sept. 12.
License holder. J. Oppman. No. 1,429,091; Sept. 12.
Lifting jack. J. A. Morrison. No. 1,428,702; Sept. 12.
Light, Projection and distribution of. L. Bell. No. 1,428,936; Sept. 12.
Lighting fixture. F. W. Mathieu. No. 1,428,603; Sept. 12.
Liquid dispenser. G. A. and A. L. Bobrick. (Reissue.) No. 15,450; Sept. 12.
Liquid fuel, Forming a. A. Hayes. No. 1,428,885; Sept. 12.
Liquid or granular material in predetermined measured quantities, Apparatus for delivering. F. P. Martin. No. 1,429,154; Sept. 12.
Liquid, Purification of waste. F. W. Wagner. No. 1,428,618; Sept. 12.
Liquid-testing device. C. J. Haggstrom. No. 1,429,136; Sept. 12.
Liquids, Electrical device for heating. H. J. Preston. No. 1,428,803; Sept. 12.
Lock: *See*—
Automobile lock.
Caster lock.
Lever switch lock.
Nut lock.
Steering-wheel lock.
Umbrella lock.
Lock. P. Seweryn. No. 1,428,915; Sept. 12.
Lock nut. M. Jacobs. No. 1,428,545; Sept. 12.
Locomotive cranes and the like, Jib hoist and automatic interlocking device for. W. Ferris. No. 1,428,539; Sept. 12.
Locomotive driving boxes, Lateral-motion appliance for. A. W. Bruce. No. 1,428,625; Sept. 12.
Log loading and unloading grapple. O. Newlin. No. 1,429,161; Sept. 12.
Loom. E. J. Wilson. No. 1,428,572; Sept. 12.
Loom, Plain-net. E. Cavigelli. No. 1,428,756; Sept. 12.
Looms, Picker-stick check for. H. W. Youngquist. No. 1,428,739; Sept. 12.
Looms, Weft-feeler device for. C. A. Carlson. No. 1,429,126; Sept. 12.
Lubricator. T. E. Coleman. No. 1,429,191; Sept. 12.
Luggage carrier. R. H. Pritchard. No. 1,428,706; Sept. 12.
Lye solution, Means for regulating and controlling the strength of. S. J. Dunkley. No. 1,429,129; Sept. 5.
Lynotype-bar cutting or broaching machine. A. J. Harder. No. 1,429,075; Sept. 12.
Manicure device. P. Serene. No. 1,428,564; Sept. 12.
Marker, Quick-equalizing. F. W. Deitz. No. 1,428,582; Sept. 12.
Mattress. D. Micon. No. 1,428,797; Sept. 12.
Measuring instrument, Electrical. E. C. Ballman. No. 1,428,743; Sept. 12.
Metal, Apparatus for rolling. J. R. Coe. No. 1,429,061; Sept. 12.
Metal bar of curved cross section. K. R. Schuster. No. 1,428,561; Sept. 12.
Metal plates and blanks, Machine for pickling. R. S. Smith and E. W. Burgess. No. 1,428,716; Sept. 12.
Metallic solutions, Purification of. S. Field. No. 1,429,131; Sept. 12.
Micrometer adapter. H. Johnson. No. 1,428,781; Sept. 12.
Microscopes, Objective changer or the like for. R. A. Sloan. No. 1,428,990; Sept. 12.
Milker, Vacuum-operated cow. J. N. Williams and H. C. Middleton. No. 1,428,670; Sept. 12.
Mill: *See*—
Rolling mill.
Tube mill.
Mining machine. M. P. Holmes. No. 1,428,634; Sept. 12.
Mixer: *See*—
Concrete mixer.
Mixing machine. G. H. Petri. No. 1,428,704; Sept. 12.
Moistener for stamps, envelopes, tape, etc. C. W. Beiser. No. 1,429,058; Sept. 12.
Molding compound, Apparatus for. L. F. Wilson. No. 1,428,733; Sept. 12.
Mop wringer. S. C. Lawlor. No. 1,428,893; Sept. 12.
Motor: *See*—
Turbo displacement motor.
Motor chair. H. E. Gladish. No. 1,429,213; Sept. 12.
Motor direction indicator. M. Shachtman. No. 1,428,663; Sept. 12.
Mouse and rat trap. E. G. Spieth. No. 1,428,918; Sept. 12.
Nozzle holder. M. Magnuson. No. 1,429,086; Sept. 12.
Needle, Embroidery. L. D. Hover. No. 1,428,960; Sept. 12.
Newspaper clamp. S. Oppenheimer. No. 1,428,900; Sept. 12.
Nitric oxide, Apparatus for producing. H. A. Humphrey. No. 1,429,035; Sept. 12.
Nitrocellulose composition. A. F. Sulzer. No. 1,429,174; Sept. 12.
Nitrogen, Furnace for oxidation of atmospheric. A. U. Avera. No. 1,429,013; Sept. 12.
Nonresalable box. A. J. Brown and G. I. Paulson. No. 1,429,185; Sept. 12.
Nozzle, Sprayer. G. J. Cassidy. No. 1,428,530; Sept. 12.
Nut lock. J. Cappel and C. R. Edwards. No. 1,428,753; Sept. 12.
Nut lock. J. V. Woodworth. No. 1,429,180; Sept. 12.
Oil and grease distributor, Force-feed. W. L. Klaserner. No. 1,428,547; Sept. 12.
Oil burner. N. Hale. No. 1,429,137; Sept. 12.
Oil burner, Steam-atomizing fuel-. J. McDonald and G. P. Haynes. No. 1,428,806; Sept. 12.
Oil-burning apparatus. E. L. Woolley. No. 1,428,574; Sept. 12.
Oil-dispensing apparatus, Weather-protected. A. D. Wyckoff. No. 1,428,737; Sept. 12.
Oil-well pump jack. H. R. and R. M. Willis. No. 1,428,671; Sept. 12.
Oils, Apparatus for separating. A. W. Hille. No. 1,428,590; Sept. 12.
Oiling device. M. Burke. No. 1,428,751; Sept. 12.
Ophthalmic mounting. T. Leytham. No. 1,428,697; Sept. 12.
Ophthalmic mounting. E. L. Schumacher. No. 1,428,914; Sept. 12.
Oven. H. C. Taylor. No. 1,428,867; Sept. 12.
Oven. J. C. Woodson. No. 1,428,870; Sept. 12.
Packing, Metallic. F. E. Payne. No. 1,428,976; Sept. 12.
Packing ring. E. R. Norman. No. 1,428,654; Sept. 12.
Packing ring for rotating bodies. C. A. Parsons and S. S. Cook. No. 1,428,975; Sept. 12.
Packing for fragile articles. M. Koppelman and S. Cooper. No. 1,429,207; Sept. 12.
Padlock protector. A. W. Rudy. No. 1,429,105; Sept. 12.
Pail, Scrubbing. G. Bryan. No. 1,428,528; Sept. 12.
Paper-finishing machine. W. F. McCarthy. No. 1,428,852; Sept. 12.
Paper-folding machine. H. A. Selfridge. No. 1,429,049; Sept. 12.
Patterns in molding, Vibrator for wrapping. O. S. Hammond. No. 1,428,630; Sept. 12.
Pen and pencil holder and calendar, Combination. H. J. Meilon. No. 1,428,968; Sept. 12.
Perambulator. F. Wojcicki. No. 1,428,736; Sept. 12.
Phonograph and moving-picture machine, Combined. R. D. Gray. No. 1,428,845; Sept. 12.
Phonograph and the like. R. Head. No. 1,429,204; Sept. 12.
Phonograph-needle buffer. T. Ahearn. No. 1,428,828; Sept. 12.
Pianos, Muting device for tuning. M. R. Youngman. No. 1,428,738; Sept. 12.
Picture apparatus, Motion-. J. Chambless. No. 1,428,531; Sept. 12.
Pictures with musical accompaniment, Method and apparatus for taking and reproducing cinematographic. O. Springefeld and L. Czerny. No. 1,428,995; Sept. 12.
Pin: *See*—
Dowel pin.
Pipe: *See*—
Tobacco pipe.
Pipe cutter. W. J. Sanders. No. 1,428,712; Sept. 12.
Placer machinery. W. R. Wilcox. No. 1,429,005; Sept. 12.
Planter. L. R. Brantley. No. 1,428,527; Sept. 12.
Plaster board. C. R. Birdsey. No. 1,428,624; Sept. 12.
Pliers. W. D. McCullough. No. 1,428,600; Sept. 12.
Pliers, Combination. R. B. Ferguson. No. 1,428,884; Sept. 12.
Plow, Lister. A. D. Gallagher. No. 1,428,543; Sept. 12.
Plows, Hoisting and locking mechanism for. A. M. Schlagel. No. 1,429,048; Sept. 12.
Plug gauge, Adjustable. J. Bath. No. 1,429,183; Sept. 12.
Plunger. W. C. Iftiger. No. 1,429,036; Sept. 12.
Pot: *See*—
Fire pot.
Potatoes, Machine for digging. O. L. Zeuthen. No. 1,429,010; Sept. 12.
Power application. B. L. Peebe. No. 1,429,122; Sept. 12.
Power attachment. G. R. Nelson. No. 1,428,651; Sept. 12.
Power consumption of machines, Device for measuring and recording the. M. Rockstroh. No. 1,429,165; Sept. 12.
Power-transmitting element, Universal. M. R. Karge. No. 1,429,146; Sept. 12.
Power transmission, Flexible. B. Garrison. No. 1,428,586; Sept. 12.
Power-transmission gear or drive, Gradually-variable. J. W. and E. A. Tygard. No. 1,428,909; Sept. 12.
Press: *See*—
Cotton press.
Hat-machine press.
Trousers press.
Preserves, Can for. J. A. Pickens. No. 1,428,705; Sept. 12.
Pressure gauge and valve, Combined. J. E. Graham. No. 1,428,776; Sept. 12.
Printed sheets, Means for preventing offset from freshly-. H. M. Barber. No. 1,428,931; Sept. 12.
Printing device. C. P. Messer. No. 1,428,795; Sept. 12.
Profilograph. T. K. Arteme. No. 1,428,520; Sept. 12.
Projectile. K. Dongan. No. 1,428,683; Sept. 12.

Propeller, Paddle. B. F. Baddeley. No. 1,428,873; Sept. 12.
Protective device. G. M. Woods. No. 1,428,809; Sept. 12.
Proteids and lactose from whey, Extraction of. D. Thomson. No. 1,428,820; Sept. 12.
Pulleys, clutches, hanger bearings, and the like, Hub for loose. W. F. Daggett. No. 1,429,065; Sept. 12.
Pump of variable capacity. A. Dollinckx. No. 1,428,876; Sept. 12.
Pump, Rotary. W. A. Hatcher. No. 1,428,691; Sept. 12.
Pumping apparatus. J. R. Suman. No. 1,428,866; Sept. 12.
Puncture-healing tube. P. Harder. No. 1,429,031; Sept. 12.
Rack: *See*—
Display rack.
Radiator. P. A. Sturtevant. No. 1,428,718; Sept. 12.
Radiator hanger. J. W. Farley. No. 1,428,707; Sept. 12.
Rail anchor. L. J. Berkeley. No. 1,428,578; Sept. 12.
Railway crossing. V. Angerer. No. 1,428,514; Sept. 12.
Railway-rail fastening. O. P. Harris. No. 1,429,033; Sept. 12.
Railway spike. E. Karrlo. No. 1,428,962; Sept. 12.
Railway tie. J. Neimeyer. No. 1,429,087; Sept. 12.
Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,428,894; Sept. 12.
Railways, Electrical point detector for. G. H. Wion and A. E. Hudd. (Reissue.) No. 15,456; Sept. 12.
Range, Combination gas and coal. W. V. Robinson. No. 1,429,099; Sept. 12.
Rat trap. R. Chasse. No. 1,429,189; Sept. 12.
Ratchet device. H. T. Anderson. No. 1,428,824; Sept. 12.
Ratchet wrench. F. T. Reese. No. 1,428,982; Sept. 12.
Razor, Power-operated. P. Serene. No. 1,428,565; Sept. 12.
Reamer, Expansible. G. Niedermayer. No. 1,429,045; Sept. 12.
Receptacle, Ash. H. L. Fargo. No. 1,428,686; Sept. 12.
Record holder. N. A. Helsley. No. 1,429,076; Sept. 12.
Record holder R. N. McClure. No. 1,429,151; Sept. 12.
Refrigerating apparatus. C. W. Hapgood. No. 1,428,958; Sept. 12.
Refrigerating system. G. A. Gase and E. A. Seymer. No. 1,429,132; Sept. 12.
Refrigerator. R. K. Combs. No. 1,429,020; Sept. 12.
Refrigerator. E. H. Holland. No. 1,428,591; Sept. 12.
Refrigerator F. Kober. No. 1,428,540; Sept. 12.
Refrigerator. E. H. Roy. No. 1,429,104; Sept. 12.
Registers, Transfer mechanism for. H. P. Nordmark. No. 1,428,607; Sept. 12.
Regulator: *See*—
Draft regulator.
Engine compression regulator.
Relay. A. H. Candee and L. J. Hibbard. No. 1,428,837; Sept. 12.
Releasable hook. W. Goetz. No. 1,428,775; Sept. 12.
Rim reducing and expanding implement. J. R. Abercrombie. No. 1,428,674; Sept. 12.
Ring: *See*—
Packing ring.
Road grader. C. D. Edwards. No. 1,429,026; Sept. 12.
Road leveler. J. Northob. No. 1,428,973; Sept. 12.
Road-scarifying device. H. D. Jones. No. 1,429,144; Sept. 12.
Rock drill for supplying water to bore holes during drilling, Reciprocating. W. E. Nettle, P. Selby, J. Blythe, and J. H. Holman. No. 1,428,606; Sept. 12.
Rolling machine. C. G. Grotnes. No. 1,428,778; Sept. 12.
Rolling mill, Continuous. H. J. Davis. No. 1,428,944; Sept. 12.
Rose-engine-turning machine. C. B. Oulton. No. 1,428,801; Sept. 12.
Rubber heel. H. L. Beal. No. 1,428,524; Sept. 12.
Sadiron. L. Hoffman. No. 1,428,959; Sept. 12.
Safety crank catch. F. W. Goedeke. No. 1,429,030; Sept. 12.
Safety device. W. J. Martin. No. 1,428,966; Sept. 12.
Safety panel box. H. F. Krantz. No. 1,428,849; Sept. 12.
Sailboat. C. Moraitis. No. 1,429,156; Sept. 12.
Sales apparatus, Automatic. E. H. Helt. No. 1,428,589; Sept. 12.
Sanding device. C. Spencer. No. 1,428,814; Sept. 12.
Sanitary case. S. A. Kornsweet. No. 1,429,082; Sept. 12.
Sash fastener, Window-. E. H. Walters. No. 1,428,725; Sept. 12.
Saw frame, Hack. W. Donaldson. No. 1,429,195; Sept. 12.
Saw guard. O. B. Smith. No. 1,428,986; Sept. 12.
Saw tables, Dado and miter attachment for. F. V. Phillips. No. 1,429,097; Sept. 12.
Saws with heat, Method and apparatus for treating. A. J. Harry. No. 1,429,138; Sept. 12.
Scale-beam poise. J. J. Magrady. No. 1,428,551; Sept. 12.
Scraper, Road. D. E. Burns. No. 1,429,125; Sept. 12.
Scraper, Rotary. C. R. Olberg. No. 1,429,089; Sept. 12.
Screen: *See*—
Headlight screen.
Screw, Hand. S. Sylvester. No. 1,429,050; Sept. 12.
Seal and applying the same, Jar. B. F. Roehrig. No. 1,428,711; Sept. 12.
Sealing device for rotary structures. D. P. Davies. No. 1,428,943; Sept. 12.
Sealing or labeling machine. F. M. Peters and W. H. Hungerford. No. 1,429,095; Sept. 12.
Searchlights, Mechanism for operating. L. Greenberg. No. 1,428,689; Sept. 12.
Seats, Indicating device for theater. D. R. Allen and J. Franck. No. 1,429,057; Sept. 12.
Separator: *See*—
Egg separator.
Grain separator.
Separators, Indicator of speed for centrifugal. L. Rasch. No. 1,428,905; Sept. 12.
Sewing machines, Stopping mechanism for. H. C. Miller. No. 1,428,648; Sept. 12.
Sewing machines, Trimming mechanism for. W. E. Raynor. No. 1,428,980; Sept. 12.
Sewing machines, Work-spacing mechanism in buttonhole-. B. T. Leveque. No. 1,428,598; Sept. 12.
Shaft coupling. J. Buchli. No. 1,428,750; Sept. 12.
Shears. E. N. Arnot. No. 1,428,830; Sept. 12.
Sheets edge to edge, Method of and apparatus for gluing. A. Elmendorf. No. 1,428,705; Sept. 12.
Shipbuilding, Batten mold particularly for use in. I. C. G. Cooper. No. 1,428,942; Sept. 12.
Shock loader. T. R. Harrington. No. 1,429,032; Sept. 12.
Shoes, Apparatus for relasting. H. Morin. No. 1,429,157; Sept. 12.
Shoes to button shoes, Means for converting lace. P. A. Weigel. No. 1,428,619; Sept. 12.
Shopping bag. J. Tnaw. No. 1,428,617; Sept. 12.
Sickle. W. F. Purdy. No. 1,428,657; Sept. 12.
Sign. G. C. Lowenthal. No. 1,428,698; Sept. 12.
Sign, Changeable T. Keller. (Reissue.) No. 15,454; Sept. 12.
Sign, Illuminated. J. Hotchner. No. 1,429,077; Sept. 12.
Sign with interchangeable characters. A. A. Urness. No. 1,428,723; Sept. 12.
Signal-controlling apparatus. W. M. Chapman. No. 1,428,532; Sept. 12.
Signals and advertisements on water surfaces, Producing visible. H. Junghans and F. Glogauer. No. 1,428,639; Sept. 12.
Signals, Indication means for light. L. F. Howard. No. 1,429,141; Sept. 12.
Silk, Apparatus for and method of manufacturing artificial. J. Clayton. No. 1,429,127; Sept. 12.
Siren. E. W. Erick. No. 1,428,684; Sept. 12.
Skate, Snow. P. Barlow. No. 1,428,976; Sept. 12.
Skylight construction. S. E. Cibulas. No. 1,429,018; Sept. 12.
Slot closure. A. M. Lane. No. 1,429,040; Sept. 12.
Snap fasteners, Machine for making. H. S. Normand. No. 1,429,088; Sept. 12.
Soap container, Shaving-. J. Schwantes. No. 1,428,562; Sept. 12.
Socket wrench, Combination. W. H. Gates. No. 1,428,840; Sept. 12.
Soil-working implement. B. H. DeMott. No. 1,428,880; Sept. 12.
Smoke-ring blower. R. Toennes. No. 1,429,176; Sept. 12.
Snowplow. W. C. Speer. No. 1,428,615; Sept. 12.
Sound records, Manufacture of. A. F. Sykes. No. 1,428,819; Sept. 12.
Sound records, Production of. A. F. Sykes. No. 1,428,818; Sept. 12.
Spark-gap apparatus. L. O. Parker. No. 1,428,856; Sept. 12.
Spark plug. H. Cartmill. No. 1,429,017; Sept. 12.
Speed indicator. P. Jaray. No. 1,428,780; Sept. 12.
Speed-regulating arrangement. L. A. Hawkins. No. 1,428,588; Sept. 12.
Speed transmission, Variable-. J. Reece. Nos. 1,428,059–60; Sept. 12.
Spraying animals, Distributor for. J. Truckenbrodt and N. C. Jensen. No. 1,429,206; Sept. 12.
Spring. N. W. Akimoff. No. 1,428,740; Sept. 12.
Spring compressor. H. H. Douglass. No. 1,429,024; Sept. 12.
Spring-forming machine. T. F. Buckley. No. 1,428,626; Sept. 12.
Spring wheel. D. Yoakam. No. 1,428,575; Sept. 12.
Sprinkler. B. Oakes. No. 1,428,553; Sept. 12.
Stadia-rod attachment. J. D. Watson. No. 1,428,669; Sept. 12.
Stalk cutter. O. D. Peden. No. 1,429,163; Sept. 12.
Steering gear. D. E. Ross. Nos. 1,429,101–3; Sept. 12.
Steering gear for motor-propelled vehicles. K. S. Gingerich. No. 1,429,029; Sept. 12.
Steering-gear stabilizer. G. Y. Beal. No. 1,428,515; Sept. 12.
Steering mechanism. A. D. Trenor. No. 1,428,568; Sept. 12.
Steering-wheel lock, Combination. P. Kish. No. 1,428,963; Sept. 12.
Steering wheels, Locking device for. H. C. Miller. No. 1,428,649; Sept. 12.
Stitching machines, Heater for. J. Stangl. No. 1,428,717; Sept. 12.
Stop mechanism, Nonset automatic. I. Belloch. No. 1,429,059; Sept. 12.
Stop, Nonset automatic. C. B. O'Neill. No. 1,429,046; Sept. 12.
Stove adapted to burn sawdust, shavings, and like workshop refuse. J. Jouclard. No. 1,428,762; Sept. 12.
Stove and range. S. McClure. No. 1,428,853; Sept. 12.
Stove door. E. E. Blackburn. No. 1,428,579; Sept. 12.
Support and guard, Combined. V. C. Kloepper. No. 1,429,039; Sept. 12.

Switch mechanism, Snap-. A. L. Freret. No. 1,428,542; Sept. 12.
Switch stand, Manually-operated. O. H. Bardon. No. 1,428,874; Sept. 12.
Table and bookcase, Combined. C. H. Gunn. No. 1,428,620; Sept. 12.
Tag for motor vehicles, License. B. H. Börreson. No. 1,428,747; Sept. 12.
Tag holder, Chauffeur's identification-. E. A. Vera. No. 1,429,119; Sept. 12.
Telephone-exchange system. N. T. Whitaker. No. 1,429,003; Sept. 12.
Telephone receiver and transmitter, Combined. J. S. Timmons. No. 1,428,567; Sept. 12.
Telephone system. H. D. Currier. No. 1,428,762; Sept. 12.
Telescope, Reflecting. L. Bell. No. 1,428,035; Sept. 12.
Telescope-sight mounting. R. Moske. No. 1,428,655; Sept. 12.
Thigh guard. W. P. Whitley. No. 1,428,731; Sept. 12.
Thrasher. J. M. Luna. No. 1,428,509; Sept. 12.
Thrashing machine. J. E. Sanders. No. 1,428,911; Sept. 12.
Ticket and identifying means, Combination. E. G. Pickering. No. 1,429,098; Sept. 12.
Tie: *See*—
Railway tie.
Tile, Load-supporting building. C. R. Birdsey. No. 1,428,623; Sept. 12.
Tillage implement. H. S. Dickinson. No. 1,428,947; Sept. 12.
Tire. V. Kubelka. No. 1,429,209; Sept. 12.
Tire. H. H. Swan. No. 1,428,817; Sept. 12.
Tire casings, Method and apparatus for making. J. L. Butler. No. 1,428,752; Sept. 12.
Tire cover. F. T. Bohan. No 1,428,580; Sept 12.
Tire, Cushion. W. D. Teller. No. 1,428,719; Sept. 12.
Tire, Fibrillous. H. N. Wayne. No. 1,428,571; Sept. 12.
Tire, Pneumatic. N. G. Warth. No. 1,428,726; Sept. 12.
Tire protector. H. J. Cohrs. No. 1,429,212; Sept. 12.
Tire-stripping machine. E. D. Putt. No. 1,428,979; Sept. 12.
Tire valve. M. J. Payne. No. 1,429,047; Sept. 12.
Tires, Inner tube for. G. W. Bolser. No. 1,429,015; Sept. 12.
Tires, Self-sealing inner tube for automobile. H. N. Wayne. No. 1,428,570; Sept. 12.
Tires to rims of vehicles, Means for securing. D. Maggiora. No. 1,429,152; Sept. 12.
Tobacco pipe. W. R. Dales. No. 1,429,022; Sept. 12.
Toilet chair, Collapsible. B. F. Grabfelder. No. 1,428,627; Sept. 12.
Tongs, Glass. C. F. Caswell. No. 1,428,679; Sept. 12.
Tool, Combination. A. J. Johnson. No. 1,428,848; Sept. 12.
Torch heads, Soldering-iron attachment for acetylene-. W. C. Hackman. No. 1,428,956; Sept. 12.
Torpedoes, Air flask for. W. Dieter. No. 1,429,023; Sept. 12.
Towing device. F. Reinschmidt. No. 1,428,860; Sept. 12.
Track sanders, Air nozzle for. E. E. Bradley. (Reissue.) No. 15,451; Sept. 12.
Tractor. R. J. Folse and F. L. Hecker. No. 1,428,584; Sept. 12.
Tractor, Farm. J. M. Meyers. No. 1,428,854; Sept. 12.
Tractor, Garden. F. A. and R. D. Valentine. No. 1,429,178; Sept. 12.
Tramper. J. M. Peerson. No. 1,428,609; Sept. 12.
Transmission, Friction. W. Nagle. No. 1,428,898; Sept. 12.
Transmission mechanism, Axle-driven. G. E. Hulse. No. 1,428,693; Sept. 12.
Trap: *See*—
Animal trap. Rat trap.
Mouse and rat trap.
Trimmer: *See*—
Lawn-edge trimmer.
Trolley. W. E. Bee and W. E. Simpson. No. 1,428,034; Sept. 12.
Trolley. W. E. Simpson. No. 1,428,613; Sept. 12.
Trolley. J. S. Townsend. No. 1,429,118; Sept. 12.
Trolley M. G. Wilson. No. 1,429,007; Sept. 12.
Trolley wheel. N. L. Lieberman. No. 1,428,644; Sept. 12.
Trombone. J. F. S. Alschausky. No. 1,428,675; Sept. 12.
Trousers press. C. T. Ferguson. No. 1,428,769; Sept. 12.
Truck, Automobile. R. S. Clymer. No. 1,428,681; Sept. 12.
Truck, Car. J. Demarco. No. 1,428,764; Sept. 12.
Truck, Dumping. O. M. Wick. No. 1,429,004; Sept. 12.
Truck for railway vehicles. W. E. Woodard. No. 1,429,008; Sept. 12.
Truck, Lifting. A. M. Barrett. No. 1,428,522; Sept. 12.
Truck, Lifting. A. M. Barrett. W. Childress, and F. Trott. No. 1,428,523; Sept. 12.
Trucks, Elevating mechanism for automotive. R. A. Klein, W. H. Burtis, and L. U. Eyerly. No. 1,429,038; Sept. 12.
Trunk and garment-hanger bracket therefor, Wardrobe. S. Osterwell. No. 1,428,554; Sept. 12.
Trunk. Steamer. M. H. P. Droste. No. 1,429,068; Sept. 12.
Tube: *See*—
Puncture-healing tube.
Tube mill. J. Ferencz. No. 1,428,687; Sept. 12.
Turbo displacement motor. L. H. Nash. No. 1,429,044; Sept. 12.
Typewriter keys, Removable cap for. R. S. Graham. No. 1,428,544; Sept. 12.
Typewriting machine. H. Bates. No. 1,428,832; Sept. 12.
Typewriting machine. W. F. Helmond. No. 1,428,886; Sept. 12.
Typewriting machine. A. G. F. Kurowski. Nos. 1,428,850–1; Sept. 12.
Typewriting machine. J. A. B. Smith. No. 1,428,864; Sept. 12.
Typewriting machines, Escapement device for. L. P. Diss. No. 1,429,066; Sept. 12.
Typewriting machines, Paper-feed pressure device for. A. Uta. No. 1,428,569; Sept. 12.
Umbrella lock. L. Snoemaker. No. 1,428,810; Sept. 12.
Vacuum apparatus. T. and J. R. Ray. No. 1,428,557; Sept. 12.
Vacuum cleaner. W. J. Wise and T. O. Adams. No. 1,428,734; Sept. 12.
Vacuum cleaners, Dust receptacle for. F. J. Deutsch. No. 1,428,583; Sept. 12.
Valve. J. J. Finney. No. 1,429,199; Sept. 12.
Valve, Automatic safety. W. B. S. Whaley. No. 1,428,928; Sept. 12.
Valve, Dispensing. C. L. Bastian and H. Mathisen. No. 1,428,744; Sept. 12.
Valve, Dry-pipe. J. R. Meadowcroft. No. 1,428,700; Sept. 12.
Valve for cake-forming presses. R. A. Trace. No. 1,428,998; Sept. 12.
Valve for sand and gravel dumps, Gate. W. M. Williams. No. 1,428,732; Sept. 12.
Valve, Gas and air reversing. W. G. Bergman. No. 1,428,525; Sept. 12.
Valve grinder. A. and J. Aldi. No. 1,428,871; Sept. 12.
Valve, Hydraulic. H. L. Fritts. No. 1,428,888; Sept. 12.
Vanadium, Recovering. W. E. Stokes. No. 1,428,616; Sept. 12.
Vanity cases, Partition for. W. G. Kendall. No. 1,428,890; Sept. 12.
Valve-spindle-retaining device. L. C. Bayles. No. 1,428,745; Sept. 12.
Valve-spring compressor. P. L. Varble. No. 1,429,000; Sept. 12.
Vault closures, Fastener for. S. Taylor. No. 1,429,116; Sept. 12.
Vehicle bodies, Resilient support for. C. Forth. No. 1,428,770; Sept. 12.
Vehicle, Coaster. T. Woehr. No. 1,428,735; Sept. 12.
Vehicle curtain. M. Raur, jr. No. 1,428,709; Sept. 12.
Vehicle quarter curtain. M. Raur, jr. No. 1,428,708; Sept. 12.
Vehicle direction indicator. B. Weinstein. No. 1,428,729; Sept. 12.
Vehicle jack. J. S. Andrews. No. 1,428,519; Sept. 12.
Vehicle, Motor. D. Macdonald. No. 1,428,550; Sept. 12.
Vehicle, Motor. C. J. Reigh. No. 1,428,907; Sept. 12.
Vehicle seat support. B. B. Neuteboom. No. 1,428,652; Sept. 12.
Vehicle wheel, Dual. A. L. Putnam. No. 1,428,556; Sept. 12.
Vehicles, Antiglare device for motor. W. E. Haseltine. No. 1,429,034; Sept. 12.
Vehicles, Automatic safety fender for motor. C. W. Williams, jr. No. 1,429,055; Sept. 12.
Vehicles, Spring support for. H. Lübeck. No. 1,428,639; Sept. 12.
Vehicles, Support for. H. F. Klock. No. 1,428,964; Sept. 12.
Veneering apparatus. J. Herman. No. 1,428,692; Sept. 12.
Ventilator and the like. E. M. Dyer. No. 1,428,882; Sept. 12.
Vessels, Method of and apparatus for raising submerged. F. W. Ebeling. No. 1,428,538; Sept. 12.
Vise. L. S. Starrett. No. 1,428,996; Sept. 12.
Wagon-body construction. W. Kouns. No. 1,429,208; Sept. 12.
Wagon, Farm. F. Brososky. No. 1,428,748; Sept. 12.
Wall board and making the same, Composition. H. E. Brookby. No. 1,428,827; Sept. 12.
Washer drive mechanism. A. R. Curtis. No. 1,429,064; Sept. 12.
Washing machine. A. E. Statham. No. 1,428,919; Sept. 12.
Washing-machine agitator. A. L. Wailing. No. 1,428,822; Sept. 12.
Water cooler. G. F. Denne. No. 1,428,945; Sept. 12.
Water for domestic and other purposes, Apparatus for collecting rain. K. Vongehr. No. 1,429,051; Sept. 12.
Weaner, Calf. B. W. Myer and J. Brown. No. 1,428,794; Sept. 12.
Weather strip. J. Hartstra. No. 1,429,203; Sept. 12.
Weaving, Mechanical process of. E. Lambert and R. Pernin. No. 1,428,786; Sept. 12.
Welding, Electric. F. S. Caldwell and A. M. Bennett. No. 1,428,529; Sept. 12.
Well-casing-capping device. J. W. Loy. No. 1,428,791; Sept. 12.
Well-tool grab. A. H. Kruger. No. 1,428,784; Sept. 12.
Wheel: *See*—
Disk wheel. Trolley wheel.
Spring wheel. Vehicle wheel.
Wheel and making same. W. R. Gilmore. No. 1,428,954; Sept. 12.

Wheel device, Free-. A. Dughera. No. 1,429,196; Sept. 12.
Wheel or roller, Sheet-metal. F. S. Morton. No. 1,429,158; Sept. 12.
Window regulator. G. W. Wells. No. 1,429,120; Sept. 12.
Window-washing apparatus. J. Wojnarski. No. 1,428,823; Sept. 12.
Wire loop. O. A. Michells. No. 1,428,701; Sept. 12.
Wrench: *See*—
Automatic wrench. Socket wrench.
Ratchet wrench.
Wrench. C. O. Borkman. No. 1,428,835; Sept. 12.
Wrench. L. G. Reynolds and A. L. Holman. No. 1,428,805; Sept. 12.
Wrench. W. H. Ward. No. 1,429,053; Sept. 12.
Wringer: *See*—
Mop wringer.
Yield-point detector. M. C. Hutchinson. No. 1,428,637; Sept. 12.

ALPHABETICAL LIST OF DESIGNS.

Ash tray or the like. R. A. Cowles. Nos. 61,463–4; Sept. 12.
Ash tray. S. Kronburger. No. 61,470; Sept. 12.
Badge, pin, ring, emblem, or similar article. H. W. Peters. No. 61,477; Sept. 12.
Card, Business. S. P. Foltz. No. 61,466; Sept. 12.
Crib cover, Baby-. D. Levy. No. 61,472; Sept. 12.
Doll. E. B. Card. No. 61,461; Sept. 12.
Doll. R. Davis. No. 61,465; Sept. 12.
Doll. I. Kidder and L. Melton. No. 61,469; Sept. 12.
Doll. S. Reich. No. 61,478; Sept. 12.
Doll. M. R. Schnack. No. 61,483; Sept. 12.
Glove gauntlet. J. Rice. Nos. 61,479–82; Sept. 12.
Heater. E. Witsberger. No. 61,489; Sept. 12.
Heel. H. T. Mason. No. 61,474; Sept. 12.
Lubricant-dispensing apparatus. W. E. Keesee. No. 61,468; Sept. 12.
Manikin. J. E. Lester. No. 61,471; Sept. 12.
Paper or similar article of manufacture. F. J. M. Miles. No. 61,475; Sept. 12.
Phonograph cabinet. C. Hine. No. 61,467; Sept. 12.
Ring. A. Verber. Nos. 61,486–7; Sept. 12.
Ring, Finger. J. M. Benison. No. 61,460; Sept. 12.
Rubber heel. G. W. Watson. No. 61,488; Sept. 12.
Sole. H. T. Mason. No. 61,473; Sept. 12.
Sweater. B. Beckenstein. No. 61,459; Sept. 12.
Tire, Nonskid. J. N. Carter. No. 61,462; Sept. 12.
Toy. F. H. Steacy. No. 61,484; Sept. 12.
Toy animal. S. J. Tamo. No. 61,485; Sept. 12.
Toy, Wheeled. C. H. Pajeau. No. 61,476; Sept. 12.
Watchcase bow. L. M. Williams. Nos. 61,490–1; Sept. 12

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Alimentary paste products. Ronzoni Macaroni Company. No. 158,790; Sept. 12.
Almond paste. Hartmann Food Product Co. No. 158,698; Sept. 12.
Apparel, Certain outing and sporting. Hirshfield Skirt Co. No. 158,703; Sept. 12.
Aprons, dresses, petticoats, nightgowns, etc., Bungalow. A. D. Finkel. Nos. 158,664–5; Sept. 12.
Aprons, house dresses, and dresses, Ladies'. J. A. and R. E. Solmes. No. 158,815; Sept. 12.
Bags made of paper, Garment. H. P. Browning. No. 158,623; Sept. 12.
Bags, suitcases, pocketbooks, Leather. Artcraft Leather Goods Company. No. 158,600; Sept. 12.
Balls, Bouncing. Eagle Rubber Co. No. 158,653; Sept. 12.
Balls, Golf. Dayton Company. No. 158,647; Sept. 12.
Bathing suits. Long Island Knitting Mills Co. No. 158,734; Sept. 12.
Bats, Baseball. Hilton Collins Co. Nos. 158,701–2; Sept. 12.
Beverage and extracts, flavors, and colors for making the same, Nonalcoholic. Southern California Supply Company. No. 158,816; Sept. 12.
Beverage, Nonalcoholic. Choc-Lo Co. No. 158,638; Sept. 12.
Beverage sold as a soft drink and sirup for making same. W. H. Elam. No. 158,656; Sept. 12.
Beverages and sirups for making the same, Nonalcoholic. Cherry Blossom Mfg. Co. Nos. 158,631–6; Sept. 12.
Beverages sold as soft drinks and sirup for making same and sirup, Nonalcoholic, maltless. N. L. Hall. No. 158,697; Sept. 12.
Beverages sold as soft drinks and sirups for making same. Pure Products Syrup Corporation. No. 158,779; Sept. 12.
Blankets, robes, and rugs, Cotton and wool. Wolfeboro Mills. No. 158,868; Sept. 12.
Bloomers, Children's coveralls, and sleeping garments. Winget Manufacturing Co. No. 158,867; Sept. 12.
Books published in series, Printed. E. P. Dutton & Company. Nos. 158,651–2; Sept. 12.
Boots and shoes. A. E. Little Co. No. 158,732; Sept. 12.
Boots and shoes. Wilson Process, Inc. No. 158,866; Sept. 12.
Boots and shoes, Leather. H. O. Quick. No. 158,780; Sept. 12.
Boots and shoes, Leather, rubber, fabric, etc. P. A. Savi. No. 158,800; Sept. 12.
Boots, shoes, and slippers. Thomas G. Plant Company. No. 158,774; Sept. 12.
Boots, shoes, slippers, and rubbers. Smith Shoe Co. No. 158,814; Sept. 12.
Brushes, Artists'. M. Grumbacher. Nos. 158,686–94; Sept. 12.
Bulletin, Monthly trade. A. A. Eastman. No. 158,654; Sept. 12.
Burial cases. Embalming Burial Case Company. No. 158,658; Sept. 12.
Buttons, buckles, girdles, beads, spangles, Certain. United Manufacturing Trimming Co. No. 158,841; Sept. 12.
Buttons for clothing, Nonbreakable. Non-Breakable Button Corporation of America. No. 158,761; Sept. 12.
Buttons, Horn. Lindenhurst Manufacturing Co. No. 158,738; Sept. 12.
Cable, Fiber. Waterbury Company. No. 158,856; Sept. 12.
Candies. A. R. Walker Candy Corporation. No. 158,848; Sept. 12.
Candies. A. G. Williams Homemade Candy Co. No. 158,864; Sept. 12.
Candy. Euclid Candy Company. No. 158,660; Sept. 12.
Candy. T. C. Jungels. No. 158,710; Sept. 12.
Candy. Nichols Candy Company. No. 158,759; Sept. 12.
Candy. E. R. Steeg. No. 158,824; Sept. 12.
Candies and oils. Haddock, Parker & Co. No. 158,696; Sept. 12.
Canned peaches. California Packing Corporation. No. 158,627; Sept. 12.
Canned peas and corn. Aunt Nellie's Farm Kitchen. No. 158,601; Sept. 12.
Cans and closures for cans, Tin. George D. Ellis & Sons. No. 158,655; Sept. 12.
Cars, Playing. United States Playing Card Company. No. 158,843; Sept. 12.
Cartoons, Series of. Bell Syndicate, Inc. No. 158,611; Sept. 12.
Cement, Portland. Gillingham Portland Cement Company. No. 22,244; renewed Dec. 27, 1922.
Chocolate. H. L. Pierce. No. 22,356; renewed Jan. 24, 1923.
Cigarettes and smoking tobacco. Bailey Brothers Inc. No. 158,602; Sept. 12.
Cigars. Gene Vall Cigar Co. No. 158,683; Sept. 12.
Cigars. Great Lakes Cigar Mfg. Co. No. 158,685; Sept. 12.
Cigars. Sidney Cigar Manufacturing Company. No. 158,811; Sept. 12.
Cigars and little cigars. R. N. Paris. No. 158,766; Sept. 12.
Cleaning hands, Compounds for. G. C. Lee. No. 158,737; Sept. 12.
Cleanser for carpets, rugs, etc., Paste. Klenzal Co. No. 158,721; Sept. 12.
Clothing, Certain articles of. Worth, Inc. No. 158,871; Sept. 12.
Clothing for girls, Outer. Little Goddess Dress Co. No. 158,733; Sept. 12.
Clothing, Men's and young men's. M. Frank Sons & Company. No. 158,677; Sept. 12.
Coats, Infants'. M. Kuster. No. 158,723; Sept. 12.
Coffee. Klatte Coffee Company. No. 158,720; Sept. 12.
Coffee extracts, Prepared. E. Haase. No. 158,695; Sept. 12.
Coffee, sugar, tea, soup, etc. Icy-Hot Bottle Company. No. 158,708; Sept. 12.
Coffee, tea, spices, vinegar, and flavoring extracts for foods. David G. Evans Coffee Co. No. 158,661; Sept. 12.
Colors and fillers, Dry. C. K. Williams & Co. No. 158,862; Sept. 12.
Combs, pendants, hair ornaments, and bag frames of celluloid. Standard Comb Company. No. 158,819; Sept. 12.
Cordage, Certain named. John Rauschenberger. No. 158,782; Sept. 12.
Cornstarch, flavoring extracts, gelatine dessert, and tapioca. Wabash Baking Powder Company. No. 158,847; Sept. 12.
Corsets. George C. Batcheller & Co. No. 158,607; Sept. 12;
Cotton and cotton mixed wash dress piece goods. Walton N. Moore Dry Goods Co. No. 158,747; Sept. 12.
Cotton fabrics in pieces. Heberlein & Co., A. G. No. 158,699; Sept. 12.
Cotton linings and pocketings. Adolph Rosenberg & Co. No. 158,791; Sept. 12.
Cotton, Medicated. J. W. Johnson. Nos. 21,629–30; renewed Aug. 16, 1922.
Cotton piece goods. Cohn Hall Marx Co. No. 158,640; Sept. 12.
Cotton piece goods. Pelzer Manufacturing Company. Nos. 158,769–70; Sept. 12.
Dental crowns and bridges, Material for models for the construction of. J. C. Schwartz. No. 158,804; Sept. 12.
Dolls. Rees Davis Toy Company. No. 158,786; Sept. 12.
Dolls. H. Sardeau. No. 158,799; Sept. 12.
Dolls and doll dresses, Cloth. F. W. Lanning. No. 158,726; Sept. 12.
Dresses, coats, and caps, Children's. Howard I. Branson & Co. No. 158,621; Sept. 12.
Dresses, house dresses, and aprons, Kitchenette. Kaufman Manufacturing Co. No. 158,712; Sept. 12.
Electric hot-air baths and douches and electrical massage devices. Elektrizitätsgesellschaft Sanitas mit beschrankter Haftung. No. 158,657; Sept. 12.
Enamel. American Enamel Company. No. 158,593; Sept. 12.
Enamel and paint preparations. Williams-Hayward Company. No. 158,863; Sept. 12.
Exterminating fluids and disinfectants. Uncle Sam Chemical Co. No. 158,840; Sept. 12.
Fabrics in the piece, Pile. Amertex Mills, Inc. No. 158,598; Sept. 12.
Fertilizer, Flower. E. T. MacNamara. No. 158,744; Sept. 12.
Finger-nail buffers. C. T. Sundmacher. No. 158,829; Sept. 12.
Flour, Wheat. Barrett Denton & Lynn Co. No. 158,605; Sept. 12.
Flour, Wheat. Oklahoma City Mill & Elevator Co. No. 158,763; Sept. 12.
Fluid for patching fabrics. H. W. Lucas & Co. No. 158,735; Sept. 12.
Frocks and dresses, Women's. Rice-Stix Goods Company. No. 158,788; Sept. 12.
Game in which a board or table and missiles or playing pieces are employed, Apparatus for playing a. Belasco Mechanics Corporation. No. 158,610; Sept. 12.
Game, in the nature of roulette, Parlor. Rouzette Company. No. 158,794; Sept. 12.
Games, Racing. Robson & Bowen. No. 158,789; Sept. 12.
Garment-storage bags. Roseth Corporation. No. 158,792; Sept. 12.
Garters. R. M. Whitman. No. 158,860; Sept. 12.
Gasoline. Black Hawk Oil Company. No. 158,616; Sept. 12.
Gasoline and fuel oil. American Oil Company. No. 158,595; Sept. 12.
Gasoline, lubricating oils and greases. Dome Oil Company. No. 158,649; Sept. 12.
Glass products. Chicago Glass Products Company. No. 158,637; Sept. 12.
Glue. La Societe des Produits Chimiques Coignet. No. 158,729; Sept. 12.
Glue and gelatine. La Societe des Produits Chimiques Coignet. Nos. 158,727–8; Sept. 12.

Grape juice. J. Hungerford Smith Grape Juice Co. No. 158,706; Sept. 12.
Grape juice. Reid, Murdoch & Co. No. 158,787; Sept. 12.
Greases, Certain named fuel oils and lubricating oils and. Standard Oil Company. No. 158,820; Sept. 12.
Grips, suitcases, trunks, etc. Western Grip & Trunk Co. No. 158,859; Sept. 12.
Hair nets. F. D. Ammidown. No. 158,599; Sept. 12.
Hair nets. J. Fleischer. No. 158,668; Sept. 12.
Hair nets. New England Supplies Corporation. No. 158,755; Sept. 12.
Hair nets. C. K. Thau. No. 158,835; Sept. 12.
Hair nets. Walker Stetson Company. No. 158,849; Sept. 12.
Hair nets. Wondernette Company. No. 158,869; Sept. 12.
Hair restorer. J. B. Sharp. No. 158,807; Sept. 12.
Hairpins. Sta-Rite Hair Pin Co. No. 158,822; Sept. 12.
Handkerchiefs. Wilson Brothers. No. 158,865; Sept. 12.
Hats and caps, Men's and boys'. J. Wall. No. 158,854; Sept. 12.
Hats, Ladies'. Stronge and Warner Company. No 158,827; Sept. 12.
Hats, Ladies' trimmed and tailored. Sig. Welsenburger & Co. No. 158,857; Sept. 12.
Hosiery. Emery & Beers Company. No. 158,659; Sept. 12.
Hosiery. Krueger-Tobin Co. No. 158,722; Sept. 12.
Hosiery. Taylor and Watson, Inc. No. 158,832; Sept. 12.
Hosiery, Silk. Mutual Hosiery Mills, Inc. No. 158,750; Sept. 12.
Hosiery, Silk. Paterson Knitting Mills, Inc. No. 158,767; Sept. 12.
Horse, mule, and pony shoes and calks. American Steel & Wire Company of New Jersey. No. 158,597; Sept. 12.
Ice-cream powder. Crandall Pettee Co. No. 158,644; Sept. 12.
Journal of this organization, Official. National Marine Engineers' Beneficial Association. No. 158,753; Sept. 12.
Knit underwear for women and children. Wright's Underwear Company. No. 158,872; Sept. 12.
Laces, Shoe. Diamond Braiding Mills. No. 158,648; Sept. 12.
Lamps, Therapeutic. S. Robert Schwartz & Bro. No 158,805; Sept. 12.
Linen, Fancy. L. S. E. Co. Inc. No. 158,725; Sept. 12.
Lingerie, Batiste. A. N. Saab. No. 158,797; Sept. 12.
Magazine, Monthly. Readers' Publishing Corporation. No. 158,783; Sept. 12.
Magazines published monthly. Ramp Buildings Corporation. No. 158,781; Sept. 12.
Malt extract for food purposes. Primalt Products Co. No. 158,777; Sept. 12.
Malt-extract sirup for food purposes. Schreiber Products Corporation. No. 158,802; Sept. 12.
Marmalade. J. & J. V. Hoegen & Company. No. 158,705; Sept. 12.
Medicinal preparations, Certain. C. Zuray. No. 158,874; Sept. 12.
Musical instruments, Cases and satchels for. Alfred L. Felsberg & Co. No. 158,663; Sept. 12.
Narrow fabrics, Woven and braided. Wm. B. Bliss, jr., & Co. No. 158,617; Sept. 12.
Notions, Certain. Walker Webbing Co. Nos. 158,850–3; Sept. 12.
Oil and grease, Lubricating. Globe Refining Company No. 158,684; Sept. 12.
Oil, Gas-engine cylinder. New York Lubricating Oil Company. No. 158,756; Sept. 12.
Oil, Lubricating. Consumers Service Stations, Consolidated, No. 158,641; Sept. 12.
Oil, Olive. Duran y Cia. No. 158,639; Sept. 12.
Oils and greases and gasoline, Lubricating and illuminating. A. V. McConaghy. No. 158,741; Sept. 12.
Oils and greases, Illuminating and lubricating. Galena Signal Oil Co. No. 158,679; Sept. 12.
Oils, Flushing. Union Oil Company of California. No. 158,839; Sept. 12.
Oils, gasoline and crude oil, Lubricating. Red Dog Oil Company. No. 158,784; Sept. 12.
Oils, Lubricating. G. H. Capen. No. 158,628; Sept. 12.
Oils, Lubricating. Shell Company of California. No. 158,809; Sept. 12.
Oils, Road. Union Oil Company of California. No. 158,838; Sept. 12.
Oilers, yarn mops, dust cloths, and yarn dust brushes, Floor. Standard Oil Company of New York. No. 158,821; Sept. 12.
Olives, fruit jelly, fruit jam, apple butter, etc. Tisgood Products, Inc. No. 158,836; Sept. 12.
Overalls, overall coats, trousers, and suits, coveralls, and work shirts. United States Overall Manufacturing Company. No. 158,842; Sept. 12.
Overalls, shirts; Men's, women's, and children's underwear, hosiery, and belts, and one piece work garments. F. Brody & Sons Co. No. 158,622; Sept. 12.
Pails, drums, and cheese boxes, and fiber containers for shipping commodities, Fiber. Container Company. No. 158,643; Sept. 12.
Paint and varnish for automobiles and automobile bodies. LykGlas Auto ReNuAl System, Inc. No. 158,739; Sept. 12.
Paint and varnish removers. Chalmers Chemical Company. No. 158,630; Sept. 12.
Paint coatings, Protective. Dampney Company of America. Nos. 158,645–6; Sept. 12.
Paint for coating glass, Waterproof. J. Walsh. No. 158,855; Sept. 12.
Paint of paste consistency, Nondrying. C. W. Paine. No. 158,764; Sept. 12.
Paint thinner or turpentine substitute. Pioneer Manufacturing Company. No. 158,772; Sept. 12.
Paints, Dry. Sun Chemical & Color Company. No. 158,828; Sept. 12.
Paints, Dry, paste, and ready-mixed. Industrial Paint Company. No. 158,709; Sept. 12.
Paints of ready-mixed form and varnishes, fillers, paint pigments and vehicles, etc. Marine Decking & Supply Company. No. 158,746; Sept. 12.
Paints, Protective. Semet-Solvay Co. No. 158,806; Sept. 12.
Paints, Ready-mixed. J. McQuade. No. 158,743; Sept. 12.
Paints, varnishes, and putty. M. I. Wilcox Company. No. 158,861; Sept. 12.
Paints, varnishes, stains. Bradley & Vrooman Company. No. 158,620; Sept. 12.
Paints, wood stains, etc. Alexander Lumber Company. No. 158,590; Sept. 12.
Paper and typewriter ribbons, Carbon. Kee Lox Manufacturing Company. No. 158,718; Sept. 12.
Paper bags. Victory Bag & Paper Co. No. 158,846; Sept. 12.
Paper, Carbon. Kee Lox Manufacturing Co. Nos. 158,715–7; Sept. 12.
Paper, Carbon. Kee Lox Manufacturing Company. No. 158,719; Sept. 12.
Paper outer garments, Waterproof. J. A. Gavin. No. 158,680; Sept. 12.
Parasols and umbrellas. S. C. Gelband. No. 158,682; Sept. 12.
Periodical published monthly. Purchasing Agents Association of Western Massachusetts. No. 158,778; Sept. 12.
Pharmaceutical preparations for stimulating liver-cell action. J. F. Murray. No. 158,749; Sept. 12.
Pieces of chewing candy commonly known as kisses. C. H. Boyst. No. 158,619; Sept. 12.
Pictures and cartoons. W. R. Allman. No. 158,592; Sept. 12.
Pins, Safety. New York Merchandise Company. Nos. 158,757–8; Sept. 12.
Pins, Safety. F. Rees. Nos. 158,785–8; Sept. 12.
Pipes, Tobacco-smoking. Hirschl & Bendheim. No. 158,704; Sept. 12.
Polish for auto bodies and furniture. C. E. Bass. No. 158,606; Sept. 12.
Polish for automobiles, pianos, furniture, safes, etc. C. G. Schmidt. No. 158,801; Sept. 12.
Polish for furniture, automobiles, and pianos. Super Polish Co. No. 158,831; Sept. 12.
Polish, Furniture. Lustrex Products Co. No. 158,736; Sept. 12.
Polish, Furniture. S. S. Stafford, Inc. Nos. 158,817–18; Sept. 12.
Polishing preparation for floors, furniture, etc. Nicholsons (Newcastle-on-Tyne) Limited. No. 158,760; Sept. 12.
Potatoes. O. K. Story & Company. No. 158,762; Sept. 12.
Powder and ammunition containing the same. Western Cartridge Company. No. 158,858; Sept. 12.
Preparation for the treatment of blood diseases. A. Besson. No. 158,613; Sept. 12.
Publication, Monthly. Bunting Publications, Inc. Nos. 158,624–6; Sept. 12.
Publication, Monthly. W. H. Fawcett. No. 158,662; Sept. 12.
Publication, Monthly. Popular Radio, Inc. No. 158,775; Sept. 12.
Publication, Monthly. Poster Advertising Association. No. 158,776; Sept. 12.
Publications, Monthly. Shea Smith & Co. No. 158,813; Sept. 12.
Purses. Elwood Myers Co. No. 158,751; Sept. 12.
Putty. Baker Paint & Varnish Co. No. 158,603; Sept. 12.
Rompers, jumpers, overalls, and smocks, Children's. Wornova Mfg. Co. No. 158,870; Sept. 12.
Rubber, including mats and matting, Articles of vulcanized. New York Belting and Packing Company. No. 22,108; renewed Aug. 22, 1922.
Sacks, wooden cases, boxes, crates, etc. Fruit and Produce Exchange of Great Britain, Limited. No. 158,678; Sept. 12.
Sanitary belts. Rubberized Sheeting & Specialty Co. No. 158,796; Sept. 12.
Sardines. Bordeaux & New York Trading Co. No. 158,618; Sept. 12.
Shirts, boys' blouses and playsuits, Men's and boys' work. J. C. Penney Company. No. 158,771; Sept. 12.
Shirts, Dress and negligee. M. Shaw. No. 158,808; Sept. 12.
Shirts, Men's outer. McMullen-Leavens Co. No. 158,742; Sept. 12.
Shirts, Work. American Wholesale Corporation (Baltimore Bargain House). No. 158,590; Sept. 12.
Shoes. Morse & Burt Co. No. 158,748; Sept. 12.
Shoes. G. E. Peirce. No. 158,768; Sept. 12.
Shoes and boots, Leather. B. Ross. No. 158,793; Sept. 12.
Shoes and combinations of the same, Leather, fabric, and rubber. Levy & Weiss Shoe Co. No. 158,731; Sept. 12.
Shoes, Children's. F. Levy Shoe Co. No. 158,730; Sept. 12.
Shoes, Leather. Nettleton Shops, Inc. No. 158,754; Sept. 12.
Shoes, Men's leather. K-W Shoe Co. No. 158,724; Sept. 12.
Silk fabrics in the piece, Woven, knitted, netted, and textile. A. Sterzelbach & Sons Co. No. 158,825; Sept. 12.
Silk piece goods. H. R. Mallinson & Co. No. 158,745; Sept. 12.
Silk piece goods, Broad. Duplan Silk Corporation. No. 158,650; Sept. 12.
Silk, woolen, etc., piece goods. M. Strauss. No. 158,826; Sept. 12.
Skirt drawers and combinations, Women's. D. Bickum. No. 158,614; Sept. 12.
Skirts, Misses' outer. F. Herman. No. 158,700; Sept. 12.
Sleds, Hand. Kalamazoo Sled Company. No. 158,711; Sept. 12.
Snap fasteners. American Fastener Company. No. 158,594; Sept. 12.
Socks for boots and shoes. J. T. Cooper. No. 158,642; Sept. 12.
Spirit, Motor. Alcohol Fuel Corporation Limited. No. 158,589; Sept. 12.
Stain varnish, varnishes, mixed paints, and paint enamels. R. A. Becker Varnish Company. No. 158,608; Sept. 12.
Steel in blocks, bars, and forgings. Poldina Hut, továrna na kelímkovou ocel Crucible Steel Works. No. 158,707; Sept. 12.
Stockings. Julius Kayser & Co. Nos. 158,713–14; Sept. 12.
Suitcase. C. A. Behringer. No. 158,609; Sept. 12.
Suits and overcoats, Men's and boys'. Saks and Company. No. 158,798; Sept. 12.
Sulphur inoculated with bacteria. Texas Gulf Sulphur Company. Nos. 158,833–4; Sept. 12.
Surgical and dental instruments, Apparatus for sterilizing. Barnstead Still & Sterilizer Co. No. 158,604; Sept. 12.
Suspensories. J. E. Naregan. No. 158,752; Sept. 12.
Tea. L. H. Parke & Co. No. 21,432; renewed July 12, 1922.
Tea, Blended. L. H. Parke & Co. No. 21,431; renewed July 12, 1922.
Teeth, Alloy for the restoration of broken-down. J. C. Schwartz. No. 158,803; Sept. 12.
Teeth, Artificial. Universal Dental Company. No. 158,844; Sept. 12.
Textile articles—namely, hosiery. The Paramount Knitting Co. No. 158,765; Sept. 12.
Tire-sealing compound. A. E. Gaylord. No. 158,681; Sept. 12.
Toaster, air heater, and hair drier, Electric. FitsGerald Mfg. Company. No. 158,666; Sept. 12.
Tobacco, Smoking. John Sinclair Ltd. No. 158,812; Sept. 12.
Toy houses and automobiles, Cardboard. Cellu-Metal Corporation. No. 158,629; Sept. 12.
Toy wagons. Allied Factories Corporation. No. 158,591; Sept. 12.
Trunks, bags, and suitcases, Hand. Abrams Trunk Co. No. 158,588; Sept. 12.
Union suits, combination suits, undershirts, and underdrawers, Men's, women's, and children's. Superior Underwear Company. No. 158,830; Sept. 12.
Vanity cases. A. B. Flagg. No. 158,667; Sept. 12.
Varnish and stains. William Zinsser & Company. No. 158,873; Sept. 12.
Varnish coating, Liquid floor. Pittsburgh Plate Glass Company. No. 158,773; Sept. 12.
Varnishes. Berry Brothers. No. 158,612; Sept. 12.
Varnishes. McCloskey Varnish Co. No. 158,740; Sept. 12.
Varnishes, varnish stains, paint enamels, and paints. Valentine & Company. No. 158,845; Sept. 12.
Washboards. R. F. Starr. No. 158,823; Sept. 12.
Waterproof aprons. Rubberized Sheeting & Specialty Co. No. 158,795; Sept. 12.
Wool and artificial silk piece goods and combinations of the same. Turner & Walls. No. 158,837; Sept. 12.
Wool, wool and cotton, and wool and silk mixture fabrics in the piece. Shlivek Brothers Fabrics Corporation. No. 158,810; Sept. 12.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 158,669–76; Sept. 12.

ALPHABETICAL LIST OF LABELS.

"Bear-Tite Piston Ring." (For Envelopes and Boxes for Piston Rings.) Foster, Merriam & Company. No. 25,033; Sept. 12.
"California Community." (For Fresh Grapes.) Associated Fruit Co. No. 25,027; Sept. 12.
"Club Punch." (For a Beverage.) Hay's Fruit Juice Co. No. 25,037; Sept. 12.
"Co-Co-Con." (For a Cone Made of Pure Chocolate and Filled with Confections.) P. Douvres. No. 25,032; Sept. 12.
"Contrast." (For a Paint and Varnish Remover.) A. W. Scoles. No. 25,051; Sept. 12.
"Crescent Nu-Type Chimney." (For Boxes Containing Chimneys.) Macbeth-Evans Glass Company. No. 25,042; Sept. 12.
"Crowned with Wealth of Vitamines." (For Containers Having Ingredients for Beverages Sold as a Soft Drink.) Douglas & Burns, Ltd. No. 25,031; Sept. 12.
"Dove Load." (For Loaded Shot Shells.) Remington Arms Company. No. 25,048; Sept. 12.
"Five Fruits." (For a Fruit Sirup.) H. H. Hay Sons. No. 25,036; Sept. 12.
"Hy Tone Linen." (For Stationery.) Western Tablet & Stationery Company. No. 25,052; Sept. 12.
"Indian Root Tea." (For a Medicinal Compound—Namely, Indian Root Tea.) Indian Herb & Tonic Root Combination. No. 25,039; Sept. 12.
"Kla-Ta-Wa Kleaner." (For a Soft-Soap Vegetable Compound for Cleaning Rugs, Carpets, Painted Surfaces, Shoes, Windows, Automobiles, and for Removing Stains ant Spots from Clothing.) L. J. Kretchman. No. 25,040; Sept. 12.
"Lustre Soap." (For Soap.) Lustre Chemical Company. No. 25,041; Sept. 12.
"Macbeth Pearl Glass Nu-Type Chimney." (For Boxes Containing Chimneys.) Macbeth-Evans Glass Company. No. 25,043; Sept. 12.
"Orange Sunshine." (For a Nonalcoholic Beverage.) Sage Brothers Company. No. 25,050; Sept. 12.
"Original Clarks Sealark Mayonnaise." (For Mayonnaise.) Clark Bro. & Co. Inc. No. 25,029; Sept. 12.
"Panama Punch." (For a Beverage.) Hay's Fruit Juice Co. No. 25,038; Sept. 12.
"Perfection Healing and Soothing Compound." (For Jars and Packages of Medicinal Salve.) T. Desaplo. No. 25,030; Sept. 12.
"Ponce de Leon Fountain of Health." (For Medicines for the Nervous Diseases.) G. H. Rivera. No. 25,049; Sept. 12.
"Sentry Hair Curler." (For Hair Curlers.) J. Goldsmith, jr. No. 25,034; Sept. 12.
"Superior." (For Noodles.) Pfaffmann Egg Noodle Company. No. 25,044; Sept. 12.
"Superior." (For Sea Shells.) Pfaffmann Egg Noodle Company. No. 25,045; Sept. 12.
"Superior." (For Spaghetti.) Pfaffmann Egg Noodle Company. No. 25,047; Sept. 12.
"Superior." (For Vermicelli.) Pfaffmann Egg Noodle Company. No. 25,046; Sept. 12.
"Wavo Hair Curler." (For Hair Curlers.) J. Goldsmith, jr. No. 25,035; Sept. 12.
"White Mountain." (For Baking Powder.) Caverly-Plumer Company. No. 25,028; Sept. 12.

ALPHABETICAL LIST OF PRINTS.

"Bob-Curl." (For Advertising Purposes for a Hair-Curling Preparation.) W. B. Madder. No. 6,307; Sept. 12.
"Harriet Hubbard Ayer." (For Advertising Purposes for Toilet Preparations.) Harriet Hubbard Ayer. No. 6,305; Sept. 12.
"Miss Lotta Lite." (For Advertising Purposes for Portable Lamps.) Greist Manufacturing Company. No. 6,306; Sept. 12.
"Mov-Esy Means Ease at the Movies." (For Advertising Purposes for Theater Chairs.) Josiah Partridge & Sons, Incorporated. No. 6,309; Sept. 12.
"Sta-Brite." (For Advertising Purposes for Automobile Paints.) Sta-Brite Auto Painting Co. No. 6,310; Sept. 12.
"Sybasco." (For Advertising Purposes for Baskets of All Descriptions.) Syracuse Basket Company, Inc. No. 6,311; Sept. 12.
"Unmask Your Hidden Beauty." (For Advertising Purposes for Cosmetic Lotions for Beautifying the Skin and Eradicating Blemishes Thereof.) T. J. Newlyn. No. 6,308; Sept. 12.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Apples and pears, Fresh. Winthrop Fruit Co. No. 161,162; Sept. 12.
Artichokes, Fresh. J. L. Debendetti. Nos. 161,112–13; Sept. 12.
Bags, Mothproof garment. White Tar Company. No. 159,231; Sept. 12.
Barbed-wire cashier cages and stock-room inclosures, clamps, and clips for wire rope, etc. Wickwire Spencer Steel Corporation. No. 145,144; Sept. 12.
Baskets, Woven. Minneapolis Society for the Blind. No. 158,786; Sept. 12.
Bathing suits. Utility Rubber Goods Company. No. 160,374; Sept. 12.
Bedspreads and pillow shams. Marshall Field & Company. No. 165,935; Sept. 12.
Beverages and concentrates and compounds for making same. Orange Crush Company. No. 157,531; Sept. 12.
Blouses and waists, Ladies' handmade. Beerman & Frank, Inc. No. 162,239; Sept. 12.
Boilers, Range. Detroit Range Boiler and Steel Barrel Co. No. 139,349; Sept. 12.
Boilers, Range. Pennsylvania Range Boiler Co. No. 162,135; Sept. 12.
Brushes, Newark Tortoise Shell Novelty Co. No. 166,785; Sept. 12.
Candy. Durand Co. No. 161,037; Sept. 12.
Canned corn and peas, wheat flour, and coffee. R. A. Tribble. No. 137,503; Sept. 12.
Canned salmon. Virden Packing Co. No. 161,160; Sept. 12.
Canned vegetables and fruits. Dreyfus Bros. No. 161,115; Sept. 12.
Cans, containers, and cartons. L. R. Carley. No. 160,585; Sept. 12.
Caps and college hats, Sport and rooters'. Wheeler Manufacturing Co. No. 162,276; Sept. 12.
Cement for holding artificial teeth firmly in place. F. L. Molyneux. No. 162,234; Sept. 12.
Chain connectors. J. F. Herman. No. 159,262; Sept. 12.
Chemical remover for iron rust, mildew, fruit and medicine stains. Karam Smith Co. No. 162,631; Sept. 12.
Chocolates and candies. Fuerst & Kraemer, Limited. No. 161,044; Sept. 12.
Clothing, Vanity Fair Silk Mills. No. 162,595; Sept. 12.
Colors, Coal-tar. Society of Chemical Industry in Basle. No. 135,871; Sept. 12.
Cough balsam or remedy for use in treatment of coughs, colds, croup, etc. J. P. Hagen. No. 162,739; Sept. 12.
Cough drops. F. A. Kauffman. No. 162,181; Sept. 12.
Cravats and neckties. Cheney Brothers. No. 162,287; Sept. 12.
Creams, hair tonic, face powder, witch hazel, etc., Cold, almond, and lemon. De Milo Perfume Co. No. 160,932; Sept. 12.
Dental vulcanizers, dental vulcanizer heaters, and dental anvils. Buffalo Dental Manufacturing Co. No. 160,043; Sept. 12.
Dentifrice, Medicated. A. J. Bafalis. No. 158,753; Sept. 12.
Depilatories. M. Deutsch. No. 162,670; Sept. 12.
Disinfectants and antiseptics. J. W. Kerr. No. 160,950; Sept. 12.
Doilies. Perlmann, Schal & Stern. No. 166,955; Sept. 12.
Drills, milling cutters, and reamers, Twist. American Machine Products Co. No. 160,106; Sept. 12.
Drinks, Nonalcoholic maltless soft. San Francisco Breweries Ltd. No. 167,366; Sept. 12.
Dusters, Wool. Well-Ransom Co. No. 166,918; Sept. 12.
Engines and gas-engine parts, Gas. Joseph Reid Gas Engine Company. No. 160,301; Sept. 12.
Feeds, wheat flour, Graham flour, corn meal and bran, Live-stock and poultry. Nicholls-Loomis Co. No. 154,990; Sept. 12.
Fertilizers. Pacific Bone Coal & Fertilizer Co. No. 162,565; Sept. 12.
Fish, Dried, smoked, and pickled. Tower Fish Company. No. 161,156; Sept. 12.
Flour. Ponge-Wall Milling Company. No. 144,979; Sept. 12.
Flour, Wheat. Theobald Flour Mills Co. No. 132,127; Sept. 12.
Food, Tonic bird. Burnett's Incorporated. No. 152,781; Sept. 12.
Footballs, inflaters, shoulder pads, thigh guards, etc. James W. Brine Company. Nos. 165,177–8; Sept. 12.
Fruits and grapes, Fresh deciduous. Livingston Cooperative Society. No. 161,631; Sept. 12.
Gasoline, kerosene, distillate, gas oil, fuel oil, etc. Rio Grande Oil Company. No. 157,775; Sept. 12.
Gloves, Lace. H. S. Hall & Co. No. 162,339; Sept. 12.
Gypsum and land plaster, Agricultural. United States Gypsum Company. No. 159,446; Sept. 12.
Hair nets. S. Glemby's Sons Co. No. 167,126; Sept. 12.
Hair nets. Hochschild Kohn & Co. No. 167,080; Sept. 12.
Hair nets. Lindeke-Warner & Sons, Inc. No. 167,476; Sept. 12.
Hair nets. North American Import Co. No. 157,621; Sept. 12.
Hair nets. Seidner & Hitzigrath, Inc. No. 167,205; Sept. 12.
Hair nets. N. Seligman. No. 167,206; Sept. 12.
Hair restorer, Gray-. E. Burnham, Inc. No. 160,462; Sept. 12.
Handkerchiefs. John V. Farwell Company. No. 166,446; Sept. 12.
Handkerchiefs. Western Bottle Manufacturing Company. No. 165,975; Sept. 12.
Heaters, Water. Stack Heater Company. No. 164,466; Sept. 12.
Hosiery. Haberdashers Novelty Co. No. 162,736; Sept. 12.
Hosiery, silk underwear, and gloves of leather and fabric, Silk. Brunstadt Co. No. 159,841; Sept. 12.
Ice cream. Fairmont Creamery Co. No. 161,533; Sept. 12.
Ice-cream confections. Kopp, Freiden and Company. No. 161,193; Sept. 12.
Insecticide powder. C. A. Garris. No. 162,925; Sept. 12.
Intestinal lubricant and exerciser. B. J. Dryfuss. No. 162,288; Sept. 12.
Jar rings, rubber belting, hose, and packing. Mechanical Rubber Co. No. 147,036; Sept. 12.
Knitted sweaters. Cadet Knitting Co. No. 162,800; Sept. 12.
Lace in the piece. Richmond Lace Works. No. 145,858; Sept. 12.
Lamps and burners and oil pots thereof, Oil-burning motor-vehicle. R. E. Dietz Company. No. 164,237; Sept. 12.
Leathers, cut lace, hose washers of leather, etc., Pump. W. S. Nott Company. No. 109,299; Sept. 12.
Liniment, cough sirup, liver pellets, corn relief, etc. C. W. Horn. No. 160,243; Sept. 12.
Lotion, Hand. Annais and Yukins. No. 161,474; Sept. 12.
Lumber. Hamilton-Hill Veneer Co. No. 153,139; Sept. 12.
Medicinal and pharmaceutical preparation. M. Sisman. No. 158,801; Sept. 12.
Medicinal bitters. W. T. Shafe. No. 143,714; Sept. 12.
Medicinal preparation. D. D. Kirby. No. 162,634; Sept. 12.
Medicinal preparation. Kon-Stip-E-O Tablet Co. No. 162,822; Sept. 12.
Medicine for nervous disorders, epilepsy, and sleeplessness. E. Reilly. No. 160,722; Sept. 12.
Medicine for rheumatism. L. Aronovich. No. 148,104; Sept. 12.
Medicine for venereal diseases. Tarrant Company. No. 162,908; Sept. 12.
Metal-hardening compounds. Park Chemical Company. No. 162,766; Sept. 12.
Nerves, Devices and apparatus for ascertaining the physical condition of the. W. J. Cameron. No. 160,927; Sept. 12.
Oils and aromatic chemicals used in the production of perfumes, Synthetic. Société Anonyme des Etablissements Justin Dupont. No. 152,721; Sept. 12.
Oils and greases, Illuminating and lubricating. R. G. Cunningham Oil Co. No. 157,603; Sept. 12.
Oils, Lubricating. Standard Oil Company (Incorporated in New Jersey). Nos. 159,121–30; Sept. 12.
Oils, laundry wax, petrolatum, etc., Medicinal. Standard Oil Company of New York. No. 162,900; Sept. 12.
Paint pigment. United States Graphite Company. No. 159,631; Sept. 12.
Paints and varnishes, Paste and ready-mixed. Baer Brothers. No. 153,535; Sept. 12.
Paints, putty, linseed oil, turpentine, etc. American Wall Paper Co. No. 160,846; Sept. 12.
Paints, putty, linseed oil, turpentine, etc. Bazille & Partridge, Inc. No. 160,858; Sept. 12.
Paints, Ready-mixed. W. White. No. 156,247; Sept. 12.
Papers, papeteries, cards, tablets, and pads, Writing, typewriting, etc. Highland Manufacturing Company. No. 125,504; Sept. 12.
Patches, fruit-jar rubbers, and garden hose, Blow-out. Strevell-Paterson Hardware Co. No. 148,766; Sept. 12.
Pears and plums, Fresh. H. Reed. No. 161,578. Sept. 12.
Pens, Fountain. Le Boeuf Fountain Pen Company. No. 163,804; Sept. 12.
Perfumes, toilet waters, sachets. E. Burnham, Inc. No. 160,466; Sept. 12.
Phosphate, Pebble. Coronet Phosphate Company. No. 158,703; Sept. 12.

Piston and packing rings. Pennsylvania Piston Ring Company. No. 146,732; Sept. 12.
Plant food and tonic. F. Denkewalter. No. 160,696; Sept. 12.
Polish, Automobile and furniture. W. H. Milleman. No. 137,263; Sept. 12.
Polish for hardwood floor, furniture, etc., Liquid. H. G. Mitchell. No. 156,454; Sept. 12.
Polish, Furniture. E. W. Hasbrouck. No. 162,490; Sept. 12.
Polish, Nonabrasive. I. H. Dillon. No. 160,799; Sept. 12.
Poultry and hog equipment. Mit-Shel Stamping Mfg. Co. No. 157,940; Sept. 12.
Preparation for removing paint, etc., from floors, woodwork, etc., for cleaning brushes, and removing wall paper. Trinity Chemical Corporation. No. 160,445; Sept. 12.
Receptacles. Cadmus Products Company. No. 160,283; Sept. 12.
Remedy against foot-and-mouth diseases (murrain). Naamloose Vennootschap Chemische Fabriek "Vanor." No. 141,923; Sept. 12.
Remedy for tender sweaty feet, perspiration odors, etc. Turlington Chemical Company. No. 160,373; Sept. 12.
Remedy for use in treatment of rheumatism, gout, neuralgia. T. Seltzer. No. 162,780; Sept. 12.
Rouge, Face. Remilier Co. No. 160,635; Sept. 12.
Rubber tips and pads for heels. Phillips Patents Limited. No. 162,047; Sept. 12.
Rugs, carpets, etc. Mars Grand Rug Co. No. 166,698; Sept. 12.
Rugs, Wilton. Marshall Field & Company. No. 165,927; Sept. 12.
Rust and other spots from fabrics, Chemical compound for removing. Charles McAdam Co. No. 149,018; Sept. 12.
Salve, Healing. G. J. Grohs. No. 160,702; Sept. 12.
Sand, Medically-treated insoluble. Pep Sand Company. No. 162,504; Sept. 12.
Sanitary aprons, sanitary belts, and baby pants. J. J. Beyerle Mfg. Co. No. 154,300; Sept. 12.
Shirts, Men's outer. Yorke Shirt Company. No. 162,368; Sept. 12.
Shirts, overalls, and men's trousers, Negligee and work. J. H. C. Petersen's Sons Company. No. 154,615; Sept. 12.
Shoe and boot linings (cut out), uppers, rubber and leather heels and soles, and canvas shoes. Schoellkopf Co. No. 151,101; Sept. 12.
Shoes. Henry Sonneborn & Co. No. 152,725; Sept. 12.
Shoes, Leather. James Shoe Mfg. Co. No. 165,383; Sept. 12.
Shoes, Leather. Witchell-Sheill Company. No. 154,072; Sept. 12.
Silk, cotton, and wool piece goods and combinations of same. Turner and Walls. No. 163,719; Sept. 12.
Silk piece goods. Empire Silk Company. Nos. 167,231–6; Sept. 12.
Sirup, Malt. Primalt Products Co. No. 167,419; Sept. 12.
Sirup, Table. Vegolene Co. No. 161,602; Sept. 12.
Slippers, Felt. H. Jacob & Sons, Inc. No. 163,934; Sept. 12.
Sodas, potash, glycerin, carbolic acid, etc. Charles F. Smillie & Co. No. 162,854; Sept. 12.
Sponges, cotton waste, shellac gums. William Zinsser & Company. No. 164,848; Sept. 12.
Steel roofing, siding, and ceilings, metal lath and lumber, etc. United Alloy Steel Corporation. No. 154,897; Sept. 12.
Stoves or ranges, Combination. Magee Furnace Company. No. 148,606; Sept. 12.
Sweaters, sweater coats, and bathing suits. Stanley W. Blum Company. No. 162,238; Sept. 12.
Tablets, Laxative. Flax Company. No. 162,645; Sept. 12.
Taffy, Chocolate. L. Mahnken. No. 161,787; Sept. 12.
Tea. McCarthy Bros. No. 161,137; Sept. 12.
Thread, Linen. Linen Thread Co. No. 159,973; Sept. 12.
Tires, Subcasings of fabric, rubber, and gum for. A. J. Stephens Rubber Co. No. 161,944; Sept. 12.
Toilet waters, face creams, and hair tonics. G. W. Dunleavy. No. 156,735; Sept. 12.
Tomato sauce. Greco Canning Co. No. 161,126; Sept. 12.
Toothache drops. Welch and Woodsum. No. 159,912; Sept. 12.
Trunks. Mendel-Drucker Company. No. 161,693; Sept. 12.
Washing and cleaning solutions, Receptacles for. Knapp Manufacturing Company. No. 159,420; Sept. 12.
Waterproof covers for wagons and rolling vehicles, Removable. R. F. Holland. No. 151,074; Sept. 12.
Whisky. Mattingly & Moore Distillery Co. No. 167,477; Sept. 12.
Wire lathing and welded sheathing. Wickwire Spencer Steel Corporation. No. 153,192; Sept. 12.
Wire-rope clips. Lamson & Sessions Company. No. 166,743; Sept. 12.
Wool fabrics in the piece. Louis Walther Manufacturing Company. No. 167,835; Sept. 12.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 12, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 2.3: 1,428,604
2— 110: 1,428,891
190: 1,428,731
3— 12: 1,429,111
4— 5: 1,428,971
5— 5: 1,428,897
13: 1,428,797
18: 1,429,150
29: 1,428,701
41: 1,429,080
57: 1,428,951
72: 1,428,642
12— 15: 1,429,157
15— 9: 1,428,734
103: 1,428,823
133: 1,428,806
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170: 1,429,171
262: 1,428,893
16— 19: 1,429,187
21: 1,428,899
33: 1,428,932
180: 1,428,759
17— 30: 1,428,672
18— 2: 1,428,526
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8: 1,429,127
39: 1,428,733
57: 1,429,179
20— 1.2: 1,428,605
4: 1,428,881
19: 1,429,053
69: 1,429,203
92: 1,429,200
22— 13: 1,428,993
56: 1,428,630
178: 1,428,954
212: 1,428,987
23— 1: 1,429,035
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1,429,177
3: 1,429,129
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24— 11: 1,429,037
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78: 1,429,155
191: 1,428,560
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235: 1,428,678
259: 1,429,182
265: 1,429,139
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12: 1,428,565
13: 1,428,830
31— 73: 1,428,670
33— 46: 1,428,669
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67: 1,428,861
98: 1,428,948
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178: 1,428,183
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135: R. 15,454
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43— 69: 1,428,918
81: 1,429,189
92: 1,429,011
96: 1,428,512
44— 9: 1,428,885
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30: 1,428,862
45— 13: 1,429,042
51: 1,428,707
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57: 1,428,757
70: 1,428,629
46— 37: 1,429,176
40: 1,428,677
42: 1,429,158
47— 1,428,676
128: 1,428,879
48— 17: R. 15,452
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19: 1,428,855
55: 1,428,994
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56— 130: 1,429,168
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58— 56: 1,428,902
60— 13: 1,428,924
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54: 1,428,586
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61— 35: 1,428,808
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62— 5: 1,429,132
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66— 4: 1,428,939
12: 1,428,573
68— 10: 1,428,967
26: 1,428,959
27: 1,429,081
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70— 2: 1,429,073
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46: 1,428,915
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128: 1,428,800
129: 1,428,649
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71— 1: 1,428,920
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1,428,922
71— 9: 1,428,633
72— 6: 1,428,710
73— 2: 1,428,780
21: 1,428,978
31: 1,429,192
51: 1,428,637
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74— 5: 1,428,671
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14: 1,428,810
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33: 1,429,071
34: 1,428,659
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38: 1,428,847
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54: 1,428,724
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56: 1,428,693
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58: 1,428,720
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81: 1,428,843
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109: 1,428,654
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77— 75.5: 1,429,045
78— 32: 1,428,612
79— 3: 1,429,088
80— 31.1: 1,429,061
56: 1,428,944
81— 36: 1,428,996
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79: 1,428,884
87: 1,428,848
91: 1,429,053
134: 1,428,835
142: 1,428,546
189: 1,428,712
82— 14: 1,428,801
25: 1,428,816
83— 9: 1,428,687
62: 1,428,829
86: 1,429,005
84— 395: 1,428,675
458: 1,428,738
85— 1: 1,428,955
1,429,117
1.5: 1,428,536
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1,428,541
2.4: 1,429,033
21: 1,428,962
32: 1,428,513
87— 12: 1,429,114
21: 1,428,940
88— 14: 1,429,072
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18.3: 1,428,927
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47: 1,428,749
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89— 41: 1,428,611
90— 25: 1,429,075
91— 6: 1,428,872
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55: 1,429,121
66: 1,428,528
67.9: 1,428,606
92— 2: 1,429,128
47: 1,428,760
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93— 58: 1,428,952
96— 20: 1,428,756
97— 28: 1,428,606
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28: 1,428,610
57: 1,428,769
101— 217: 1,428,795
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103— 44: 1,428,691
162: 1,428,876
104— 44: 1,428,977
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105— 75: 1,429,145
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197: 1,428,764
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410: 1,428,614
457: 1,428,746
106— 24: 1,428,811
108— 5.4: 1,428,989
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22: 1,429,090
40: 1,428,636
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123— 48: 1,429,164
53: 1,428,858
59: 1,429,078
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108: 1,428,772
122: 1,428,841
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123— 149: 1,428,666
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175: 1,428,722
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132— 39: 1,429,167
41: 1,428,585
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18: 1,429,136
21: 1,428,928
69: 1,428,933
148: 1,428,525
138— 16: 1,428,688
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23: 1,429,101
139— 22: 1,428,739
66: 1,428,786
83: 1,428,572
85: 1,429,126
140— 93: 1,429,160
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143— 159: 1,428,986
168: 1,429,097
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146— 5: 1,428,789
7: 1,428,703
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54: 1,428,580
151— 10: 1,428,753
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14: 1,428,817
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29: 1,428,575
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45.9: 1,428,624
155— 31: 1,428,627
42: 1,428,804
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156— 22: 1,428,972
157— 1: 1,428,674
158— 1.5: 1,428,574
26: 1,428,956
32: 1,428,790
36: 1,428,793
65: 1,429,137
75: 1,428,895
161— 8: 1,428,516
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106— 15: 1,428,791
169— 22: 1,428,700
171— 95: 1,428,743
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312: 1,428,588
313: 1,428,727
172— 126: 1,429,004
173— 314: 1,429,079
318: 1,429,110
324: 1,428,863
174— 89: 1,428,653
175— 183: 1,428,833
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294: 1,428,869
335: 1,428,837
179— 49: 1,428,761
58: 1,428,762
84: 1,429,003
96: 1,428,535
103: 1,428,567
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180— 1: 1,429,213
9.2: 1,428,594
17: 1,428,854
18: 1,429,178
27: 1,428,907
43: 1,428,799
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68: 1,429,039
83: 1,428,802
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7: 1,428,839
8: 1,428,950
42: 1,428,583
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184— 13: 1,428,751
27: 1,428,547
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188— 187: 1,429,204
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189— 2: 1,429,194
190— 2: 1,429,068
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192— 12: 1,428,539
64: 1,429,196
116: 1,428,966
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1,429,059
193— 31: 1,428,763
45: 1,428,732
194— 99: 1,428,632
196— 25: 1,428,641
1,429,175
197— 27: 1,428,851
82: 1,429,006
102: 1,428,544
106: 1,428,850
110: 1,428,886
126: 1,428,864
138: 1,428,509
190: 1,428,832
198— 33: 1,428,883
144: 1,429,093
158: 1,428,721
193: 1,428,878
218: 1,429,092
200— 50: 1,428,849
70: 1,428,542
81: 1,428,645
90: 1,419,009
1,429,062
109: 1,428,821
132: 1,428,768

200— 168: 1,429,133
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204— 8: 1,428,638
9: 1,428,668
11: 1,428,563
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31: 1,429,013
64: 1,428,978
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206— 56: 1,428,562
208— 45: 1,428,736
61: 1,428,652
97: 1,429,107
116: 1,428,601
210— 16: 1,428,618
211— 8: 1,428,589
14: 1,428,730
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25: 1,429,082
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17: 1,429,012
142: 1,428,887
213— 41: 1,428,983
42: 1,428,685
45: 1,429,186

214— 44: 1,428,941
95: 1,428,888
121: 1,428,906
131: 1,429,032
215— 11: 1,428,758
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37: 1,428,711
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217— 27: 1,429,207
34: 1,428,594
56: 1,429,134
219— 8: 1,428,529
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18: 1,428,686
72: 1,428,705
221— 23: 1,428,737
103: R. 15,450
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223— 31: 1,429,083
224— 29: 1,428,706
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1,429,197
225— 25: 1,428,744

226— 95: 1,428,796
229— 23: 1,428,507
34: R. 15,453
51: 1,429,185
230— 24: 1,428,981
233— 21: 1,428,590
234— 8: 1,428,520
235— 60: 1,418,787
1,429,201
1,429,202
73: 1,428,831
143: 1,428,607
236— 45: 1,429,190
238— 30: 1,429,087
324: 1,428,578
370: 1,428,771
240— 38: 1,429,074
39: 1,428,923
41: 1,428,662
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61: 1,428,974
62: 1,428,859
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78: 1,428,603
92: R. 15,455
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246— 33: 1,428,894
129: 1,428,532
135: 1,429,141
158: R. 15,456
411: 1,428,574
463: 1,428,514
247— 25: 1,429,172
248— 30: 1,428,767
249— 19: 1,429,154
250— 38: 1,428,856
251— 4: 1,428,826
135: 1,428,530
163: 1,428,745
254— 10: 1,428,522
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88: 1,428,681
97: 1,428,702
129: 1,428,519
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256— 24: 1,429,084
257— 21: 1,428,549
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126: 1,428,779
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259— 100: 1,428,822
102: 1,428,704

260— 65: 1,428,994
261— 44: 1,428,558
262— 3: 1,428,728
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266— 4: 1,429,138
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277— 69: 1,429,199
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55: 1,428,868
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33.10: 1,428,903
33.12: 1,428,517
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283— 18: 1,428,747
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285— 86: 1,428,949
287— 90: 1,428,715
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291— 13: R. 15,451
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292— 45: 1,429,116
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207: 1,428,785
293— 41: 1,429,055
294— 28: 1,428,679
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67: 1,429,210
83: 1,428,775
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14: 1,429,004
21: 1,429,038
299— 61: 1,428,553
301— 6: 1,429,122
36: 1,428,556
63: 1,428,741
1,428,742
303— 63: 1,428,997

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 19TH DAY OF SEPTEMBER, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, Daniel A., Greater Capitol Heights, Md. Spark plug. No. 1,429,321; Sept. 19.
Acer, Herbert A., Medina, N. Y. Furnace pipe. No. 1,429,322; Sept. 19.
Achtmeyer, William, Middletown, Conn. Condensation product of phenol and formaldehyde and making same. No. 1,429,265; Sept. 19.
Achtmeyer, William, Middletown, Conn. Disk clutch facing and making same. No. 1,429,266; Sept. 19.
Achtmeyer, William, Middletown, Conn. Phenolic condensation product and making same. No. 1,429,267; Sept. 19.
Adcox, Albert H., Kansas City, Kans. Oil burner. No. 1,429,215; Sept. 19.
Aktiebolaget Ljungstroms Angturbin. (See Ljungström, Fredrik, assignor.)
Albiez, John L., Pittsburgh, Pa. Blooming mill. No. 1,429,311; Sept. 19.
Albrecht, Albert W., et al. (See Coates, Clinton T., assignor.)
Allen, Charles, El Paso, Tex. Ore classifier. No. 1,429,480; Sept. 19.
Allison, Evangeline K., Miami, Ariz. Combination eyebrow pencil. No. 1,429,823; Sept. 19.
American Balsa Company. (See Lundin, Andreas P., assignor.)
American Can Company. (See Fleischer, Paul W., assignor.)
American Can Company. (See Jones, Harry W., assignor.)
American Cardex Co. (See Rand, J. H., jr., and King, assignors.)
American Hominy Company. (See Hill, George B., assignor.)
American Laundry Machinery Company, The. (See Braley, Charles L., assignor.)
American Laundry Machinery Company, The. (See Couch, Forrest J., assignor.)
American Optical Company. (See Worth, Edmund W., assignor.)
American Radio & Research Corporation. (See Power, Harold J., assignor.)
American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)
American Telephone and Telegraph Company. (See Wright, John W., assignor.)
Anagnost, Apostle, New York, N. Y. String-instrument key. No. 1,429,391; Sept. 19.
Anderson, John F., Oakland, Calif. Exhausting food containers. No. 1,429,392; Sept. 19.
Anderson, Nils H., Trumbull, Conn. Sensitive spindle bearing. No. 1,429,393; Sept. 19.
Anderson, Vincent G., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Walking-motion propelling apparatus. No. 1,429,551; Sept. 19.
Arkin, Jesse, New York, N. Y. Artificial-tooth anchorage. No. 1,429,552; Sept. 19.
Armstrong, Evan A. (See Harris, Archer H., assignor.)
Art Mosaic Tile Company. (See Borkenstein, Frank J., assignor.)
Arwine, Arthur J., assignor to Gillis & Geoghegan, New York, N. Y. Portable hoisting apparatus. No. 1,429,216; Sept. 19.
Ash, Charles S., Hagerstown, Md. Quick-detachable vehicle wheel. No. 1,429,394; Sept. 19.
Atwater, William B., Charleston, S. C., assignor to Crystalon Chemical Company. Preparation for preventing accumulation of moisture on transparent surfaces. No. 1,429,824; Sept. 19.
Auñero, Emanuel, Brooklyn, N. Y. Warning signal. No. 1,429,217; Sept. 19.
Augenstein, Cecil V., Macksburg, Ohio. Wire-line socket. No. 1,429,312; Sept. 19.
Austin, Frederick C. (See Anderson, Vincent G., assignor.)
Averill, Earl A., Mount Vernon, N. Y., assignor to Locomotive Feed Water Heater Company. Locomotive feed-water-heater system. No. 1,429,553; Sept. 19.
Ayers, Joseph G., jr., Montclair, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Hardness-testing machine. No. 1,429,481; Sept. 19.
B. & B. Photographic Co. (See Barber, Anthony A., assignor.)
B. O. T. Mfg. Co. (See Tilden, Bert O., assignor.)
B R E Manufacturing Company. (See Leslie, Freeland D., assignor.)
Bachman, Franklin H. (See Bachman, Reuben H. and F. H.)
Bachman, Reuben H. and F. H., Allentown, Pa. Nonskid device for automobile tires. No. 1,429,825; Sept. 19.
Badische Anilin & Soda Fabrik. (See Bosch, C., and Meiser, assignors.)
Badische Anilin & Soda-Fabrik. (See Mittasch, A., and Winkler, assignors.)
Badowski, Alfred, assignor to Tirometer Valve Corporation of America, Charleston, W. Va. Transparent cap for tire-stem pressure gauges. No. 1,429,313; Sept. 19.
Badowski, Alfred, assignor to Tirometer Valve Corporation of America, Charleston, W. Va. Transparent cap for tire-stem pressure gauges. No. 1,429,314; Sept. 19.
Badowski, Alfred, assignor to Tirometer Valve Corporation of America, Charleston, W. Va. Transparent cap for tire-stem pressure gauges. No. 1,429,315; Sept. 19.
Baecker, Inez W., Chicago, Ill. Gas-burner attachment. No. 1,429,826; Sept. 19.
Bagi, Louis, assignor of one-half to J. Makay, Granite City, Ill. Roller surfacing or polishing machine. No. 1,429,316; Sept. 19.
Bagi, Louis, assignor of one-half to J. Makay, Granite City, Ill. Roller surfacing or polishing machine. No. 1,429,317; Sept. 19.
Balle, Charles F., Sykesville, Md. Beekeeper's appliance. No. 1,429,827; Sept. 19.
Baker & Company. (See Maculen, F., and Van Allen, assignors.)
Baker & Company. (See Van Allen, George L., assignor.)
Baker, Charles L., Lancaster, Pa. Top notch and runner. No. 1,429,828; Sept. 19.
Baker, Dexter C., assignor to Baker-Hansen Manufacturing Company, Oakland, Calif. Compressor. No. 1,429,829; Sept. 19.
Baker-Hansen Manufacturing Company. (See Baker, Dexter C., assignor.)
Baker, Harold T., and J. D. Haskell, Dayton, Ohio. Paper pulp-screen machine. No. 1,429,707; Sept. 19.
Baldwin, Oscar C., assignor of one-half to W. H. Meeker, Winfield, Iowa. Lubricating system. No. 1,429,268; Sept. 19.
Ballard, Arthur H., San Francisco, Calif., assignor to Ballard Oil Burning Equipment Company, Boston, Mass. Rotary oil burner. No. 1,429,554; Sept. 19.
Ballard Oil Burning Equipment Company. (See Ballard, Arthur H., assignor.)
Balsam, James. (See Liebowitz, B., and Balsam.)
Banks, Arthur J., St. Lambert, Quebec, Canada. Fermentation meter. No. 1,429,269; Sept. 19.
Banks, Richard E., Washington, D. C. Storage-battery electrolyte. No. 1,429,830; Sept. 19.
Baptista, Ignacio V., Rio de Janeiro, Brazil. Theodolite and similar angle-measuring instrument. No. 1,429,555; Sept. 19.
Barber, Anthony A., Arlington, assignor to B. & B. Photographic Co., Newark, N. J. Photographic-film carrier. No. 1,429,270; Sept. 19.
Barber Asphalt Company, The. (See Forrest, Charles N., assignor.)
Barker, Gerald, London, England. Universal shaft coupling. No. 1,429,271; Sept. 19.
Barker, Wendell A., deceased, by R. B. Ferreby, administrator, Elkhart, Ind. Chuck. No. 1,429,395; Sept. 19.
Barker, Wendell A., deceased, by R. B. Ferreby, administrator, Elkhart, Ind. Chuck. No. 1,429,396; Sept. 19.
Barney, Michael T., Los Angeles, Calif. Tire mold. No. 1,429,831; Sept. 19.
Barrow, John C., Philadelphia, Pa. Hand warmer. No. 1,429,397; Sept. 19.
Barth, Curt, Hamburg, Germany. Machine-cutting spur and helical wheels. No. 1,429,398; Sept. 19.
Bartholdy, Max, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Inside gauge. No. 1,429,556; Sept. 19.
Bauer, August, Wetzlar, Germany. Microscope. No. 1,429,557; Sept. 19.
Bauer, Fred, Red Wing, Minn. Floating decoy. No. 1,429,558; Sept. 19.
Bauer, John H., and W. F. Kennell, Stanberry, Mo. Liquid-level gauge. No. 1,429,832; Sept. 19.
Beall, Warren H., Washington, D. C. Building door. No. 1,429,833; Sept. 19.
Becker, Allen J., Essex Fells, N. J. Carboy carrier. No. 1,429,218; Sept. 19.

Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Straw-braid-sewing machine. No. 1,429,399; Sept. 19.
Becket, Frederick M., Niagara Falls, N. Y. Purifying tin-bearing ferrotungsten. No. 1,429,272; Sept. 19.
Beckett, Aden, Long Island City, N. Y. Oven-loading device. No. 1,429,559; Sept. 19.
Beebe, Engene F., Minneapolis, Minn. Clothes wringer. No. 1,429,318; Sept. 19.
Beiser, George W. (See Maurer, J. F., and Beiser.)
Beiger, Otto A. (See Böhmer, Max, assignor.)
Belgian American Coke Ovens Corporation. (See Goffart, Paul, assignor.)
Belgian American Coke Ovens Corporation. (See Piette, Ollivier, assignor.)
Bell, John C., Toccoa, Ga. Sign. No. 1,429,273; Sept. 19.
Bellon, Henry, Chicago, Ill. Die. No. 1,429,219; Sept. 19.
Berger, Matthew R., Philadelphia, Pa. Shank for eaves-trough supports. No. 1,429,482; Sept. 19.
Bergeron, Joseph, A. C., assignor to J. W. Genest, Sherbrooke, Quebec, Canada. Advertising device. No. 1,429,274; Sept. 19.
Bergman, Louis W., New York, N. Y. Loose-leaf binder. No. 1,429,708; Sept. 19.
Bernard Company of N. J. (See Flavell, Dennis A., assignor.)
Bernstein, Isaac, San Francisco, Calif. Tie holder. No. 1,429,560; Sept. 19.
Berry, Edgar H., New York, N. Y. Dispensing device for containers. No. 1,429,561; Sept. 19.
Berry, Grant G., Bessemer, Ala. Core for casting iron pipes and means for producing the same. No. 1,429,562; Sept. 19.
Berry, Harold R., Brooklyn, N. Y. Constructive conversion of hydrocarbons. No. 1,429,910; Sept. 19.
Bertram, John F., St. Louis, Mo. Churn. No. 1,429,319; Sept. 19.
Beuning, Henry, Freeport, Minn. Quack-grass destroyer. No. 1,429,563; Sept. 19.
Bezzenberger, Edward N. (See Cox, Edward, assignor.)
Bielmann, Otto, Magdeburg, Germany. Making juices, jellies, and jams from vegetable substances such as fruits and vegetables. No. 1,429,834; Sept. 19.
Biener, Herman L., Brooklyn, N. Y. Garment hanger. No. 1,429,835; Sept. 19.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Starting apparatus for airplane engines and the like. No. 1,429,670; Sept. 19.
Bijur, Joseph, New York, N. Y., assignor to Bijur Motor Appliance Company. Starting apparatus for airplane Engines and the like. No. 1,429,671; Sept. 19.
Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)
Bing-Werke, vorm. Gebr. Bing A.-G. (See Grützmann, Heinrich, assignor.)
Bird, Charles S., Walpole, Mass. Cover board for shingle bundles and the like. No. 1,429,836; Sept. 19.
Blanton, Robert W., Ironton, Ohio. Metallic keg. No. 1,429,220; Sept. 19.
Bloedow, Henry, and J. Schaffner, assignors to Standard Sheet Metal Works, Milwaukee, Wis. Sheet-metal building. No. 1,429,400; Sept. 19.
Bode, Charles O., New York, N. Y. Antiskid device for vehicle tires. No. 1,429,837; Sept. 19.
Bölile, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Swaging press. No. 1,429,838; Sept. 19.
Bohlin, Nels and S. Forner, Chicago, Ill. Renewable fuse plug. No. 1,429,672; Sept. 19.
Böhmer, Max, Chemnitz, Germany, assignor to O. A. Belger, Newtonville, Mass. Wool-combing machine. No. 1,429,911; Sept. 19.
Borkenstein, Frank J., Fort Wayne, Ind., assignor to Art Mosaic and Tile Company, Toledo, Ohio. Joint strip for concrete floors. No. 1,429,564; Sept. 19.
Bormann, Gustav, Hanover, Germany. Rubber heel. No. 1,429,673; Sept. 19.
Bosch, Carl, and W. Meiser, assignors, by mesne assignments, to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany. Manufacturing urea. No. 1,429,483; Sept. 19.
Boswell, Robert A., Washington, D. C. Cabinet talking machine. No. 1,429,839; Sept. 19.
Bouillon, Charles, Paris, France. Apparatus for separating solids from liquids. No. 1,429,320; Sept. 19.
Bowen, Eugene F., and E. J. Scott, Providence, R. I. Stamp-affixing machine. No. 1,429,321; Sept. 19.
Bowman, Elva, Fort Wayne, Ind. Chiropractic table. No. 1,429,709; Sept. 19.
Boyle, Elizabeth F. (See Ferris, Munez C., assignor.)
Bradley, Francis B., et al. (See Samuels, Daniel R., assignor.)
Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing shirts. No. 1,429,401; Sept. 19.
Brayshaw, Bertie, Fort Atkinson, assignor, by mesne assignments, to The General Tool & Manufacturing Company, Milwaukee, Wis. Sample taker. No. 1,429,710; Sept. 19.
Breguet, Louis, Velizy-Villacoublay, assignor to Société Anonyme des Ateliers D'Aviation Louis Bréguet, Paris, France. Aircraft. No. 1,429,484; Sept. 19.
Brennan, William J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. No. 1,429,221; Sept. 19.
Brewer & Company. (See Davis, Lewis, assignor.)
Brewer, Johnson, Rice, Tex. Flour sifter. No. 1,429,565; Sept. 19.
Bricker, John W., administrator. (See Hanner, Thomas.)
Briggs, Lyman J. (See Hayford, J. F., and Briggs.)
Briggs, Robert, Salida, Colo. Antiskid chain. No. 1,429,674; Sept. 19.
Briggs, Thomas L., Flushing, assignor to General Chemical Company, New York, N. Y. Cleaning contact material. No. 1,429,222; Sept. 19.
Brittain, Charles A., St. Louis, Mo. Ruled sheet. No. 1,429,485; Sept. 19.
Brophy, Allen O., Oak Park, Ill. Dental casting ring. No. 1,429,322; Sept. 19.
Brown, Henry B., assignor to Taylor Instrument Companies, Rochester, N. Y. Damping device for electrical instruments. No. 1,429,840; Sept. 19.
Brown, Merton V., Detroit, Mich. Transmission mechanism. No. 1,429,323; Sept. 19.
Brown, Oakley T., Adubon, assignor, by mesne assignments, to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Coal feed for gas producers or furnaces. No. 1,429,711; Sept. 10.
Bruening, Joseph G., Cleveland, Ohio. Windshield. No. 1,429,223; Sept. 19.
Bryant, Thomas W., Torrington, Conn. Roller bearing. No. 1,429,224; Sept. 19.
Buchanan, Cyrus B. (See Randlett, Willie O., assignor.)
Buck, Abton A., Zurich, Switzerland. Electric heater. No. 1,429,402; Sept. 19.
Buckman, Henry H., Jacksonville, Fla. Titanium complex and producing same. No. 1,429,841; Sept. 19.
Budd, Horace, Philadelphia, Pa. Grate bar. No. 1,429,486; Sept. 19.
Budlong, Emma I., executrix. (See Budlong, Wilbur F.)
Budlong, Wilbur F., deceased, by I. Budlong, executrix, assignor to Campbell & Budlong Machine Works, San Jose, Calif. Deep-well pump. No. 1,429,487; Sept. 19.
Burlingame, Albert C., assignor of one-third to D. A. Frerichs and one-third to A. Larson, Minneapolis, Minn. Collapsible fruit-jar holder. No. 1,429,675; Sept. 19.
Burnham, George A., Sangus, assignor to S. B. Condit, Brookline, Mass. Electric service switch. No. 1,429,275; Sept. 19.
Burrell, D. H., & Co. (See Feldmeier, Harvey, assignor.)
Burrowes, E. T., Company, The. (See Gowell, Ernest E., assignor.)
Burt, F. N., Company. (See Carle, Harold, assignor.)
Busby, Robert S., Jacksonville, Fla. Hairpin. No. 1,429,712; Sept. 19.
Callebert, Alfonse, assignor to Rex Machine Tool Company, Jackson, Mich. Burnishing tool. No. 1,429,403; Sept. 19.
Cameron, Donald H. (See Holmes, H. N., and Cameron.)
Campbell & Budlong Machine Works. (See Budlong, Wilbur F., assignor.)
Campbell Baking Company, The. (See Harrel, Chastain G., assignor.)
Campbell Baking Company, The. (See Patterson, Curtis J., assignor.)
Campbell, Mark, Cincinnati, Ohio. Table pad. No. 1,429,225; Sept. 19.
Capro, Angelo M., Philadelphia, Pa. Filter. No. 1,429,488; Sept. 19.
Card, Frederic M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Clutch and stop mechanism. No. 1,429,404; Sept. 19.
Carle, Harold, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Drum machine. No. 1,429,324; Sept. 19.
Carlile, Benner H., Independence, Kans. Valve or plug for oil containers. No. 1,429,566; Sept. 19.
Carlisle, Fred, Tulsa, Okla. Bearing-cup puller. No. 1,429,567; Sept. 19.
Carmichael, Drewey A., Americus, Ga. Water motor. No. 1,429,842; Sept. 19.
Carson, Pirie, Scott and Company. (See Hartrick, George, assignor.)
Carter, Floyd R., O. A. Otten, and J. C. Willard, Fairbury, Nebr. Ice-cream-brick center punch. No. 1,429,405; Sept. 19.
Case, Rolland T., La Crosse, Wis. Method of and apparatus for metal casting. No. 1,429,568; Sept. 19.
Cazier, Perry H., and W. H. Hecker, Nashville, Mich. Compressed-air filtering apparatus. No. 1,429,713; Sept. 19.
Chamney, Ronald M. (See Robinson, C. B., and Chamney.)
Chase Companies, The. (See Wellington, Arthur W., assignor.)
Chatfield, Charles B., Orange, N. J. Making substituted amines. No. 1,429,714; Sept. 19.
Cheney, Charles C., Charlestown, Mass. Automatic control for compressed-air-actuated machines. No. 1,429,325; Sept. 19.
Christensen, Louis L., Springfield, Mass. Card holder. No. 1,429,406; Sept. 19.
Christian, William, Bridgeport, Conn. Drum and making the same. No. 1,429,843; Sept. 19.
Christie, Frank D. (See De Nisson, A. C., and Christie.)
Clark, Edwin W., Chicago, Ill. Photography. No. 1,429,715; Sept. 19.
Clark, John G., Los Angeles, Calif. Footlift to raise the assembling elevator of type-casting machines. No. 1,429,844; Sept. 19.

Clark, John T., Provo, Utah. Demountable rim. No. 1,429,901; Sept. 19.
Clawson, Monroe S., Upper Montclair, N. J. Electric furnace. No. 1,429,489; Sept. 19.
Cloud, Charles A., et al. (See Coates, Clinton T., assignor.)
Coates, Clinton T., assignor of one-third to A. W. Albrecht and one-third to C. A. Cloud, St. Louis, Mo. Metal-ball-rolling machine. No. 1,429,676; Sept. 19.
Coddington, Earl L., Middletown, assignor of one-half to G. D. C. Coddington, West Middletown, Ohio. Sealing composition. No. 1,429,407; Sept. 19.
Coddington, Georgie D. C. (See Coddington, Earl L., assignor.)
Cole, Malcolm, Chicago, Ill. Display sign. No. 1,429,408; Sept. 19.
Condit, Sears B. (See Burnham, George A., assignor.)
Cooke, Franke V., assignor to K. B. Goddard, Detroit, Mich. Vehicle spring construction. No. 1,429,902; Sept. 19.
Cooley, George T., Joplin, Mo. Concentrator. No. 1,429,845; Sept. 19.
Cothran, George F. (See Vaughan, Henry A., assignor.)
Cotton, Alfred, assignor to Heine Boiler Company, St. Louis, Mo. Water-tube boiler. No. 1,429,716; Sept. 19.
Cotton, Alfred, assignor to Heine Boiler Company, St. Louis, Mo. Superheater boiler. No. 1,429,717; Sept. 19.
Couch, Forrest J., Rochester, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing machine. No. 1,429,409; Sept. 19.
Coutts, Cornelius M., Issaquah, Wash. Shelving. No. 1,429,846; Sept. 19.
Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
Cox, Edward, assignor of one-fourth to E. N. Bezzenberger, Bloomfield, Iowa. Poultry crate. No. 1,429,718; Sept. 19.
Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile bumper bracket. No. 1,429,410; Sept. 19.
Crabill, Pearl P. (See Turner, J., and Crabill.)
Craig, Alexander, Coventry, England. Golf club. No. 1,429,569; Sept. 19.
Crayton, Hadley S., Towanda, Ill. Sanitary toilet seat. No. 1,429,490; Sept. 19.
Crystal-on Chemical Company. (See Atwater, William B., assignor.)
Cumfer, Harry A., Chicago, Ill., and A. D. Stewart, Dayton, Ohio. Plaster-receiving board. No. 1,429,226; Sept. 19.
Cuno, Charles F., Meriden, Conn. Switch. No. 1,429,326; Sept. 19.
Dake, Charles W., assignor to The Pyle National Company, Chicago, Ill. Turbine. No. 1,429,570; Sept. 19.
Daniell, George J., Brooklyn, assignor of one-half to J. F. Stewart, New York, N. Y. Turnover mechanism. No. 1,429,327; Sept. 19.
Davids, Charles A., New York, N. Y. Side-dumping vehicle. No. 1,429,847; Sept. 19.
Davidson, Archer, Brookline, Mass. Vehicle suspension. No. 1,429,411; Sept. 19.
Davidson, Arthur, Renfrew, Scotland. Pulley. No. 1,429,491; Sept. 19.
Davidson, Harry O., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Support for concrete forms. No. 1,429,412; Sept. 19.
Davis, Lewis Worcester, Mass., assignor to Brewer & Company, Incorporated. Tablet for producing iodine. No. 1,429,276; Sept. 19.
Davis, William T., Mineral Wells, Tex. Toy. No. 1,429,571; Sept. 10.
Day, Alfred L., Brookline, Mass., assignor to Day Perforator Company. Perforating machine. No. 1,429,719; Sept. 19.
Day Perforator Company. (See Day, Alfred L., assignor.)
De Armond, Elroy, Grand Rapids, Mich. Culinary utensil. No. 1,429,492; Sept. 19.
De Coster, Charles J., Philadelphia, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding mechanism for stranda. No. 1,429,493; Sept. 19.
De Nisson, Alfred C. and F. D. Christie, Seattle, Wash. Attachment for monotype machines for making border rules and dotted rules. No. 1,429,720; Sept. 19.
De Regnauld de Bellescize, Henri J. J. M., Toulon, France. Circuit receiver. No. 1,429,572; Sept. 19.
Denizot, Paul, administrator. (See Lentz, Georges.)
Dickens, Carl S., T. E. Schley, and J. W. Newton, Beaumont, assignors to Magnolia Petroleum Company, Dallas, Tex. Wax-sweating apparatus. No. 1,429,721; Sept. 19.
Dickson, Robert C., Medan, Sumatra, Dutch East Indies. Lead compass. No. 1,429,848; Sept. 19.
Diehl, Charles, Peru, Ind. Valve-grinding machine. No. 1,429,494; Sept. 19.
Dodge, Gordon F., Brookline, Mass. Radiator with adjustable control. No. 1,429,413; Sept. 19.
Dolge, Arthur H., Westport, Conn. Lock for church trucks. No. 1,429,849; Sept. 19.
Domisi, David F., Cleveland, Ohio. Tubing machine. No. 1,429,328; Sept. 19.
Donahue, Maurice H., Columbus, Ohio. Deflector shield. No. 1,429,722; Sept. 19.
Donaldson, Stuart, Carnegie, Pa. Attachment for spark plugs. No. 1,429,329; Sept. 19.
Douglass, Leon F., San Rafael, Calif. Method of and apparatus for producing stereoscopic photographic films. No. 1,429,495; Sept. 19.
Dowd, Thomas J., New York, N. Y. Adjustable tap and die. No. 1,429,850; Sept. 19.
Dubilier Condenser & Radio Corporation. (See Dubilier, William, assignor.)
Dubilier, William, New York, N. Y., assignor to Dubilier Condenser & Radio Corporation. Variable condenser. No. 1,429,227; Sept. 19.
Dudek, Frank, Omaha, Nebr. Ticket holder and dispenser. No. 1,429,277; Sept. 19.
Dufour, Gustavo. (See Dufour, Lorenzo and G.)
Dufour, Lorenzo and G., Genoa, Italy. Tanning process. No. 1,429,851; Sept. 19.
Dunning, William. (See Fromm, Edward F., assignor.)
Duval d'Adrian, Alexander L., Washington, Pa. Making green chrome oxide. No. 1,429,912; Sept. 19.
Dwyer, Patrick J. (See Hurst, W. C., and Dwyer.)
Dyer, John L., Balboa, and H. T. Macnell, Ancon, Canal Zone, Panama. Tool. No. 1,429,852; Sept. 19.
Eason, Henry R., London, England. Photographic-printing apparatus. No. 1,429,723; Sept. 19.
Eckerlein, Eugène L., Paris, France. Cover for the seats of sanitary apparatus. No. 1,429,724; Sept. 19.
Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)
Edmunds & Jones Corporation. (See Kerwin, Thomas J., assignor.)
Edwards, John C., Moundsville, W. Va. Automobile chain. No. 1,429,853; Sept. 19.
Edwards, William E., Irvington, N. J. Stand for cigarettes and the like. No. 1,429,229; Sept. 19.
Edwards, William E., Irvington, N. J. Tobacco-pipe stand. No. 1,429,228; Sept. 19.
Electric Heating Corporation. (See Macy, Barnett W., assignor.)
Ellis, Carleton, Montclair, N. J. Shortening agent. No. 1,429,573; Sept. 19.
Ellsworth, John T., Park City, Utah. Recovering zinc from complex ores. No. 1,429,330; Sept. 19.
Elmore, Richard P., Sulphur, Okla. Attachment for spectacles. No. 1,429,854; Sept. 19.
Eng-Skell Company. (See England, W. A., and Mattingly, assignors.)
England, William A., San Francisco, and J. L. Mattingly, Berkeley, assignors to Eng-Skell Company, Inc., San Francisco, Calif. Mixing faucet. No. 1,429,574; Sept. 19.
Engstrom, Lars, Seattle, Wash. Sanding device for automobiles. No. 1,429,855; Sept. 19.
Enalin, Herbert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lacing machine. No. 1,429,414; Sept. 19.
Etter, Rolland R., East Cleveland, Ohio, assignor to General Electric Company. Adsorption apparatus for solvent recovery, etc. No. 1,429,856; Sept. 19.
Evans, George C., Tulsa, Okla. Burner. No. 1,429,415; Sept. 19.
Eyer, Charles B., Cleveland, Ohio. Crude-oil burner. No. 1,429,857; Sept. 19.
Fabriques de Produits Chimiques de Thann et de Mulhouse. (See Haller, Albin, assignor.)
Fade, Thomas W., London, England. Combined hinge and door holder. No. 1,429,416; Sept. 19.
Fagerström, Ernst E. F. Skarsatra, near Stockholm, Sweden. Self-centering centrifuge. No. 1,429,725; Sept. 19.
Fairclough, William, Wigan, England. Mud or splash guard for vehicles. No. 1,429,496; Sept. 19.
Farbenfabriken vorm. Friedr. Bayer and Co. (See Schweitzer, Hugo, assignor.)
Fasoldt, Ernest C., assignor of two-thirds to L. R. Krug, Albany, N. Y. Rheostat. No. 1,429,858; Sept. 19.
Fassett, Charles, St. Johnsbury, Vt. Bolt. No. 1,429,859; Sept. 19.
Feder, Joseph B., East Orange, N. J. Electric heater for railway switches. No. 1,429,726; Sept. 19.
Feinen, Nicholas, Buffalo, N. Y. Snap switch. No. 1,429,860; Sept. 19.
Feldmeier, Harvey, assignor to D. H. Burrell & Co., Inc., Little Falls, N. Y. Regulator for centrifugal separators. No. 1,429,331; Sept. 19.
Ferreby, Rolla B., administrator. (See Barker, Wendell A.)
Ferris, Munez C., assignor to E. F. Boyle, Brooklyn, N. Y. Apparatus for treating music sheets. No. 1,429,727; Sept. 19.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for detecting, measuring, and utilizing low-frequency impulses. No. 1,429,497; Sept. 19.
Fibre Corporation Limited, The. (See Michot, Georges, assignor.)
Fingerprint Machine Corporation. (See Glass, Charles F., assignor.)
Firestone Tire and Rubber Company, The. (See Maranville, Harvey F., assignor.)
Fiscus, Jesse L., assignor of one-half to A. Idso, Audubon, Iowa. Radiator holder. No. 1,429,575; Sept. 19.
Fitz-Empire Double Pivot Last Company. (See Whipple, Leland B., assignor.)

Flammang, John, University City, assignor to O. G. Stark, St. Louis, Mo. Machine for manufacturing piston rings. No. 1,429,417; Sept. 19.
Flavell, Denis A., assignor to Bernard Company of N. J., Jersey City, N. J. Feeding mechanism for wire stitching or stapling machines. No. 1,429,230; Sept. 19.
Fleischer, Jerome. (See Miller, Max C., assignor.)
Fleischer, Paul W., New York, N. Y., assignor to American Can Company. Can-closing machine. No. 1,429,231; Sept. 19.
Fletcher, Theodore, San Antonio, assignor of one-half to J. M. Nix, Bexar County, Tex. Speed-regulating means. No. 1,429,576; Sept. 19.
Flexo Motive Corporation. (See Hupp, Irvin, assignor.)
Flint, James A., Denver, Colo., assignor to Government of the United States. Gyroscope. No. 1,429,577; Sept. 19.
Flodin, Carl M., East Boston, Mass. Screw driver. No. 1,429,861; Sept. 19.
Flugel, Clifford, Cincinnati, Ohio. Antiskid-chain-applying device. No. 1,429,677; Sept. 19.
Folsom, Ernest B., assignor to Pacific Mill & Mine Supply Company, San Francisco, Calif. Belt dressing. No. 1,429,498; Sept. 19.
Forner, Sven. (See Bohlin, N., and Forner.)
Forrest, Charles N., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Bituminous sheet roofing and weatherproofing material. No. 1,429,728; Sept. 19.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,429,278; Sept. 19.
Fortoni, Luigi, London, England. Typewriting machine for music. No. 1,429,862; Sept. 19.
Fowles, Alfred T., Dallas, Tex. Water-heating drum. No. 1,429,863; Sept. 19.
Francisco, Joseph B., Columbus, Ohio. Automobile heater. No. 1,429,332; Sept. 19.
Frank, John J., Spokane, assignor to A. A. Proulx, Almira, Wash. Thurst bearing for crank shafts. No. 1,429,499; Sept. 19.
Fraser, Robert H., Battle Creek, Mich. Record binder. No. 1,429,864; Sept. 19.
Frease, Phineas N., Bothell, Wash. Tool holder. No. 1,429,500; Sept. 19.
Frerichs, D. A., et al. (See Burlingame, Albert C., assignor.)
Fried. Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
Fried. Krupp Aktiengesellschaft. (See Böhle, Karl, assignor.)
Fried. Krupp Aktiengesellschaft. (See Heyn, H., and Zimmermann, assignors.)
Fried. Krupp Aktiengesellschaft. (See Thun, Hermann, assignor.)
Friedman, Sam, Atlanta, Ga. Pressing machine. No. 1,429,865; Sept. 19.
Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Oil cup. No. 1,429,418; Sept. 19.
Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-producing mechanism. No. 1,429,419; Sept. 19.
Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-producing mechanism. No. 1,429,420; Sept. 19.
Fritsch, Edward J., and R. W. Nazel, Philadelphia, Pa.; said Fritsch assignor to said Nazel. Fluid-power hammer. No. 1,420,421; Sept. 19.
Fromm, Edward F., assignor of one-half to W. Dunning, Iowa Falls, Iowa. Spring structure. No. 1,429,279; Sept. 19.
Fulcher, William H., Oakland, Calif. Rotary pulverizer. No. 1,429,333; Sept. 19.
Furber, Frederick M., Revere, Mass. Automobile lock. No. 1,429,334; Sept. 19.
Gabriel, John, Randolph, Mass. Child's coop. No. 1,429,335; Sept. 19.
Gale, Francis G., Waterville, Quebec, Canada. Bedstead. No. 1,429,422; Sept. 19.
Galusha, Albert L., Sharon, Mass. Gas producer. No. 1,429,578; Sept. 19.
Garbell, Max, Chicago, Ill. Multicolored-ribbon shift for typewriters. No. 1,429,678; Sept. 19.
Gardiner, Norman B., Staten Island, N. Y. Fluid-measuring apparatus. No. 1,429,232; Sept. 19.
Gaskins, Palemon H., Jacksonville, Fla. Lubricating system. No. 1,429,233; Sept. 19.
Gaskins, Palemon H., Jacksonville, Fla. Lubricating system. No. 1,429,234; Sept. 19.
Gaughan, William P., Stockton, Calif. Lawn broom. No. 1,429,579; Sept. 19.
Gehrett, Walter P., San Francisco, Calif., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,429,336; Sept. 19.
Geiger, Paul N., Massillon, Ohio. Shaft coupling. No. 1,429,580; Sept. 19.
Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Coupling-release mechanism. No. 1,429,235; Sept. 19.
Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,429,581; Sept. 19.
General American Tank Car Corporation. (See Nelson, Axel M., assignor.)
General Chemical Company. (See Briggs, Thomas L., assignor.)
General Electric Company. (See Etter, Rolland R., assignor.)
General Electric Company. (See Unger, Magnus, assignor.)
General Tool & Manufacturing Company. (See Brayshaw, Bertie, assignor.)
Genest, Joseph W. (See Bergeron, J. A. C., and Genest.)
Gentry, Jesse T., Lebanon Junction, Ky. Car-axle anchor. No. 1,429,582; Sept. 19.
George, William C., Clatonia, and F. N. Nofziger, Humboldt, Nebr. Wheel hub. No. 1,429,501; Sept. 19.
Gerdeman, Frank H., Findlay, Ohio. Adjustable draft means. No. 1,429,729; Sept. 19.
German, Elmer J. (See Peiffer, John M., assignor.)
Getsinger, George W., Savannah, Ga. Window-screen mounting. No. 1,429,337; Sept. 19.
Gewerkschaft Hausbach II. (See Weber, Wilhelm, assignor.)
Gibbs, James D., Louisville, Ky. Drill press. No. 1,429,866; Sept. 19.
Gill, Frank, Chicago, Ill. Aeroplane. No. 1,429,730; Sept. 19.
Gillies, John B., Thornhill, Ontario, Canada. Horseshoe. No. 1,429,583; Sept. 19.
Gillis & Geoghegan. (See Arwine, Arthur J., assignor.)
Glass, Charles F., Brooklyn, N. Y., assignor to Fingerprint Machine Corporation. Finger-print composition. No. 1,429,338; Sept. 19.
Glass, Joseph J. (See Keehan, M. E., and Glass.)
Glidden, Raymond B., assignor to Kewanee Implement Company, Kewanee, Ill. Watering appliance. No. 1,429,584; Sept. 19.
Goddard, Karl B. (See Cooke, Frank V., assignor.)
Godfrey Conveyor Company, The. (See Godfrey, John F., assignor.)
Godfrey, John F., assignor to The Godfrey Conveyor Company, Elkhart, Ind. Clutch mechanism. No. 1,429,280; Sept. 19.
Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Headlight. No. 1,429,236; Sept. 19.
Goffart, Paul, Brussels, Belgium, assignor, by mesne assignments, to Belgian American Coke Ovens Corporation, Wilmington, Del. Coke oven. No. 1,429,281; Sept. 19.
Goheen, Leonard L., Sherwood, N. Dak. Material-saving device. No. 1,429,282; Sept. 19.
Goldberg, Elias T., assignor to R. Goldberg, New York, N. Y. Machine for enlarging rings. No. 1,429,502; Sept. 19.
Goldberg, Rose. (See Goldberg, Elias T., assignor.)
Goldsmith, Amy R., Portland, Oreg. Removable chair attachment. No. 1,429,867; Sept. 19.
Gordon, Clarke L., Stavely, Alberta, Canada. Draft equalizer. No. 1,429,868; Sept. 19.
Gordon, Harry S. (See Owler, T. D., and Gordon.)
Gould Coupler Company. (See Savage, William H., assignor.)
Government of the United States. (See Flint, James A., assignor.)
Government of the United States. (See Hayford, J. F., and Briggs, assignors.)
Gowell, Ernest E., South Portland, assignor to The E. T. Burrowes Company, Portland, Me. Folding crib. No. 1,429,869; Sept. 19.
Graeffe, Rudolf, Brand-Erbisdorf, near Freiberg, Germany. Treating peat for manufacturing an insulating material. No. 1,429,503; Sept. 19.
Grant, Alexander H., Chicago, Ill. Chain tool. No. 1,429,731; Sept. 19.
Green, Joshua, Hove, England. Cabinet for containing talking-machine records. No. 1,429,339; Sept. 19.
Green, Joshua, Hove, England. Collapsible gramophone. No. 1,429,340; Sept. 19.
Grodi, Fladget, Curtis, Ohio. Headlight control for automobiles. No. 1,429,283; Sept. 19.
Grützmann, Heinrich, assignor to Firm Bing-Werke, vorm. Gebr. Bing A.-G., Nuremberg, Germany. Column-adjusting device for typewriting machines. No. 1,429,341; Sept. 19.
Gusse, Arvin, Roswell, N. Mex. Oven. No. 1,429,870; Sept. 19.
Gustafson, Adolph P., Chicago, Ill., assignor to M. Schulz Company. Sheet-controlling mechanism. No. 1,429,905; Sept. 19.
Gustafson, Adolph P., Chicago, Ill., assignor to M. Schulz Co. Sheet-controlling mechanism. No. 1,429,906; Sept. 19.
Haas, Reed. (See Proffitt, John H., assignor.)
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Protecting shoes during toe softening. No. 1,429,237; Sept. 19.
Hagerty, Robert J., assignor of one-half to F. H. Hebron and one-half to T. C. Kelly, Philadelphia, Pa. Nursing bottle. No. 1,429,585; Sept. 19.
Haller, Albin, Paris, assignor to Fabriques de Produits Chimiques de Thann et de Mulhouse, Thann (Haut-Rhin), France. Manufacturing borneol. No. 1,429,342; Sept. 19.
Hamilton, Francis E., New York, N. Y. Certificate. No. 1,429,423; Sept. 19.
Hammond, John H., jr., Gloucester, Mass. Smoke-screen producer. No. 1,429,238; Sept. 19.

Handel, Emilie B., Baltimore, Md. Convertible bed. No. 1,429,239; Sept. 19.
Hanna, Abe M. (See Hanna, Thomas.)
Hanna, Luella H., executrix. (See Hanna, Thomas.)
Hanna, Thomas, deceased, by J. W. Bricker, administrator, and A. M. Hanna, deceased, by L. H. Hanna, executrix, Columbus, Ohio. Molding mixture. No. 1,429,586; Sept. 19.
Hansen, George, and E. Schmit, Chicago, Ill. Aeroplane. No. 1,429,284; Sept. 19.
Hanson, Earl C., Washington, D. C., and E. T. Jones, New Orleans, La. Radiosignaling system. No. 1,429,240; Sept. 19.
Hanson, Gunil J., Minneapolis, Minn. Collapsible toy house. No. 1,429,871; Sept. 19.
Hanson, Hans P., Cambridge, Minn. Window silencer. No. 1,429,872; Sept. 19.
Hanson, Oscar B., Tiffin, Ohio. Belt-conveyer tripper. No. 1,429,732; Sept. 19.
Hardt, Harry C. (See Netherton, John W., assignor.)
Harrel, Chastain G., Liberty, Mo., assignor to The Campbell Baking Company, Wilmington, Del. Blending wheaten. No. 1,429,504; Sept. 19.
Harriman, George W. R., Malden, Mass. Waterway chart. No. 1,429,285; Sept. 19.
Harris, Archer H., Barberton, assignor of one-half to E. A. Armstrong, Akron, Ohio. Tire-rimming apparatus. No. 1,429,733; Sept. 19.
Harris, Hugh H., Alexandria, Va. Collapsible mechanic bench. No. 1,429,587; Sept. 19.
Hartman, Elles E., East Jordan, Mich. Vending machine. No. 1,429,505; Sept. 19.
Hartrick, George, Oak Park, assignor to Carson, Pirie, Scott and Company, Chicago, Ill. Cash-sales book. No. 1,429,873; Sept. 19.
Haskell, John D. (See Baker, H. T., and Haskell.)
Haskell, William E., Los Angeles, Calif. Map holder. No. 1,429,874; Sept. 19.
Hayden, Jesse, F., High Point, N. C., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,429,241; Sept. 19.
Hayes, Carl I., Edgewood, R. I. Electric furnace. No. 1,429,286; Sept. 19.
Hayford, John F., Evanston, Ill., and L. J. Briggs, Battle Creek, Mich., assignors to the Government of the United States. Gyroscopic apparatus. No. 1,429,588; Sept. 19.
Haynes, Pierre E., Buffalo, assignor to The Linde Air Products Company, New York, N. Y. Separation of gaseous mixtures. No. 1,429,242; Sept. 19.
Haynes, Pierre E., Buffalo, assignor to The Linde Air Products Company, New York, N. Y. Apparatus for the separation of gaseous mixtures. No. 1,429,903; Sept. 19.
Hearn, Ira K. (See Maxwell, E. M., and Hearn.)
Heberling, Ralph H., New York, N. Y., assignor to Richmond Radiator Company. Detachable bathtub legs. No. 1,429,424; Sept. 19.
Hebron, Frank H., et al. (See Hagerty, Robert J., assignor.)
Hecker, William H. (See Cazier, P. H., and Hecker.)
Heer, Otto F., Narod, Calif. Cultivator attachment for tractors. No. 1,429,875; Sept. 19.
Heine Boiler Company. (See Cotton, Alfred, assignor.)
Heller, Perry O., Prophetstown, Ill. Draft equalizer. No. 1,429,425; Sept. 19.
Helm, Emil, Kitchener, Ontario, Canada. Traction device for vehicles. No. 1,429,589; Sept. 19.
Hemelmann, Hugo, Hanover, Germany. Colloidal solution and preparing same. No. 1,429,876; Sept. 19.
Henker, Otto, Jena, Germany. Medical appliance. No. 1,429,426; Sept. 19.
Herr, Frederick E., Barberton, Ohio. Door-mat-operated animated figure. No. 1,429,506; Sept. 19.
Herstein, Bernard, Brooklyn, N. Y. Parchment paper or vulcanized fiber and making same. No. 1,429,427; Sept. 19.
Hess, Alexander M., New York, N. Y. Hook and eye tape. No. 1,429,343; Sept. 19.
Hess, Simon B., Jamaica, N. Y. Electric signaling system. No. 1,429,243; Sept. 19.
Heuser, John H., assignor of one-half to E. E. Wolf, Morse Bluff, Nebr. High-powered multicylinder internal-combustion engine. No. 1,429,877; Sept. 19.
Heyn, Heinrich, Datteln, and F. Zimmermann, Essen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Recording device for railways. No. 1,429,878; Sept. 19.
Heywood-Wakefield Company. (See Owler, T. D., and Gordon, assignors.)
Hieber, John G. F., Spokane, Wash. Treating fruit juices. No. 1,429,679; Sept. 19.
Hill, George B., assignor to American Hominy Company, Indianapolis, Ind. Core binder. No. 1,429,879; Sept. 19.
Hippolitus, Joseph D., New Haven, Conn. Window screen. No. 1,429,344; Sept. 19.
Hipwood, George, New York, N. Y. Crutch tip. No. 1,429,428; Sept. 19.
Hipwood, George, New York, N. Y. Crutch tip. No. 1,429,429; Sept. 19.
Hitt, Samuel E. (See Peyton, J. I., and Hitt.)
Hoffman, Charles S., San Francisco, Calif. Trailer. No. 1,429,784; Sept. 19.
Hoffmann, William J., New York, N. Y. Figure wheeled toy. No. 1,429,345; Sept. 19.
Hofmann, Fred G., New York, N. Y. Creasing iron. No. 1,429,880; Sept. 19.
Holmes, Harry N., and D. H. Cameron, Oberlin, Ohio. Emulsion. No. 1,429,430; Sept. 19.
Holt Manufacturing Company, The. (See Norelius, Emil F., assignor.)
Holt Manufacturing Company, The. (See Squyer, Albert R., assignor.)
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
Hoosier Clutch Company. (See Wood, Clarence G., assignor.)
Horn, Elisabeth, née Beling, legal heiress. (See Horn, Gustav.)
Horn, Gustav, deceased, Braunschweig, Germany; E. Horn, née Beling, legal heiress. Retort for gas furnaces. No. 1,429,346; Sept. 19.
Hornsby, Moses W., New York, N. Y., assignor to Southern Electrolyte Battery Company, Inc., New Orleans, La. Electric water heater. No. 1,429,735; Sept. 19.
Hough, Frank W., Washington, D. C. System for the identification of vehicles of the motor-driven type. No. 1,429,347; Sept. 19.
Howe, Charles J., Detroit, Mich. Pivot. No. 1,429,881; Sept. 19.
Howland, Casca T. (See Robinson, Frank T., assignor.)
Hruska, Joseph, Milwaukee, Wis. Rail joint. No. 1,429,431; Sept. 19.
Huggins, Benjamin H. (See Huggins, Charles G., assignor.)
Huggins, Charles G., assignor of one-half to B. H. Huggins, Adrian, Mo. Stock feeder. No. 1,429,287; Sept. 19.
Human, Edwin, Milwaukee, Wis. Vegetable cutter. No. 1,429,348; Sept. 19.
Humidity Control Company, The. (See Krick, Arthur E., assignor.)
Hupp, Irvin, Chicago, Ill., assignor to Flexo Motive Corporation. Transmission mechanism. No. 1,429,349; Sept. 19.
Hurst, William C., and P. J. Dwyer, New York, N. Y. Detachable-rim clip. No. 1,429,736; Sept. 19.
Hyatt Roller Bearing Company. (See Ayers, Joseph G., jr., assignor.)
Hydraulic Pressed Steel Company, The. (See Davidson, Harry O., assignor.)
Hydraulic Pressed Steel Company, The. (See Klaus, F. R., and Kranz, assignors.)
Hyndes, George M., Dallas, Tex. Automatic ball-bearing side bearing for railway trucks. No. 1,429,737; Sept. 19.
Idso, Albert. (See Fiscus, Jesse L., assignor.)
Ihrig, Justus K. (See Ihrig, Peter J., assignor.)
Ihrig, Peter J., assignor of one-half to J. K. Ihrig, Springfield, Ohio. Curb box or pipe. No. 1,429,350; Sept. 19.
Ingersoll-Rand Company. (See Smith, William A., assignor.)
Ingersoll-Rand Company. (See Tuttle, Grover G., assignor.)
Interchangeable Lock Sign Co. et al. (See Samuels, Daniel B., assignor.)
International Harvester Company. (See Sharp, Charles S., assignor.)
International Harvester Company. (See Webber, William, assignor.)
Irenius, Joseph V., Newark, N. J., assignor to Ferdinand Strauss, Inc., New York, N. Y. Mechanical toy. No. 1,429,738; Sept. 19.
Irrgang, William F., Springfield, Mass. Hand truck. No. 1,429,432; Sept. 19.
Isbills, William L., Elizabeth, N. J. Projector lantern. No. 1,429,244; Sept. 19.
Izzo, Joseph A., et al. (See MacAskill, Daniel A., assignor.)
Jackson, Frank J., Waterloo, Iowa. Means for limiting capillary attraction between structural elements. No. 1,429,361; Sept. 19.
Jacobs, William C., Clinton, Iowa. Handhole plate. No. 1,429,739; Sept. 19.
Janke, Henry P., Toledo, Ohio, assignor, by mesne assignments, to The Toledo Standard Commutator Company. Commutator-segments manufacture. No. 1,429,352; Sept. 19.
Johnson, John E., De Kalb, Ill. Transmission for automobiles. No. 1,429,882; Sept. 19.
Johnston, William R., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill. Windshield wing for automobiles. No. 1,429,433; Sept. 19.
Johnston, Wm. R., Mfg. Co. (See Johnston, William R., assignor.)
Jones, Adolph W., Oakland, Calif. Oil burner. No. 1,429,434; Sept. 19.
Jones, Alexander H., Glendale, Calif. Revolving storage device. No. 1,429,435; Sept. 19.
Jones, Clyde M. (See Shadinger, M. H., and Jones.)
Jones, Edward T. (See Hanson, E. C., and Jones.)
Jones, Fred H., Globe, Ariz. Can cover. No. 1,429,507; Sept. 19.
Jones, Harry W., assignor to American Can Company, New York, N. Y. Sifter top. No. 1,429,590; Sept. 19.
Jones, Harry W., assignor to American Can Company, New York, N. Y. Disintegrator sifter top. No. 1,429,591; Sept. 19.

Jordan, Frederick G., Cement, Wash. Damp-proofing concrete body. No. 1,429,740; Sept. 19.
Joseph, Orrville E. (See Smulski, Theodore J., assignor.)
Judson, John N., Oakland, Calif. Doughnut-cooking machine. No. 1,429,904; Sept. 19.
Jung, Karl T. F., Kalmar, Sweden. Metal planer. No. 1,429,741; Sept. 19.
Justrite Manufacturing Company. (See Frisbie, William J., assignor.)
Kaczanowski, John, New York, N. Y. Padlock. No. 1,429,883; Sept. 19.
Kahn, Charles, London, England. Acoustic instrument. No. 1,429,502; Sept. 19.
Karrer, Josef, assignor to Maschinenfabrik Oerlikon, Oerlikon, near Zurich, Switzerland. Multiple-stage pressure-stage turbine. No. 1,429,508; Sept. 19.
Karsky, Joseph S., Owen, Wis. Cotter pin. No. 1,429,353; Sept. 19.
Kee, Robert H., assignor to Mun-Kee Products Corporation, Los Angeles, Calif. Ink pad and making the same. No. 1,429,354; Sept. 19.
Keehan, Michael E., and J. J. Glass, Chicago, Ill. Coupling for train-pipe-connection hose. No. 1,429,593; Sept. 19.
Keene, Edward W. W., Bristol, England. Filtering apparatus. No. 1,429,913; Sept. 19.
Kehm, August, Chicago, Ill. Radiator support. No. 1,429,742; Sept. 19.
Keister, Perry A., Cedar Rapids, Iowa. Railway weeder and reshouldering machine. No. 1,429,680; Sept. 19.
Kellogg Switchboard and Supply Company. (See Hayden, Jesse F., assignor.)
Kelly, Thomas C., et al. (See Hagerty, Robert J., assignor.)
Kelly, William A., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Invoice sheet. No. 1,429,436; Sept. 19.
Kelvinator Corporation. (See Wicks, Maurice A., assignor.)
Kennell, William F. (See Bauer, J. H., and Kennell.)
Kercher, John, Chicago, Ill. Massage device. No. 1,429,594; Sept. 19.
Kerwin, Thomas J., Chicago, Ill., assignor to Edmunds & Jones Corporation. Instrument-board lamp. No. 1,429,884; Sept. 19.
Kewanee Implement Company. (See Glidden, Raymond B., assignor.)
Kiefer, William F., Philadelphia, and J. H. Warren, Jenkintown, Pa. Convertible builder's level and transit. No. 1,429,437; Sept. 19.
Kimbel, Wilhelm, Berlin, Germany. Wooden cigarette case. No. 1,429,743; Sept. 19.
King, Vernon F. (See Rand, J. H., jr., and King.)
Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,429,744; Sept. 19.
Kissel, Clarence A., Detroit, Mich. Automatic train stop. No. 1,429,885; Sept. 19.
Klaus, Fred R., and H. W. Krans, assignors to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Electroplating apparatus. No. 1,429,438; Sept. 19.
Klein, Henry and P. J., Detroit, Mich. Building construction. No. 1,429,355; Sept. 19.
Klein, Paul J. (See Klein, Henry and P. J.)
Klein, Rudolph, Fults, and G. R. Ritzel, Valmeyer, Ill. Machine wrench. No. 1,429,886; Sept. 19.
Knepper, George E., Altoona, Pa. Railway car. No. 1,429,745; Sept. 19.
Koehler, Rudolph, St. Louis, Mo. Burglar alarm. No. 1,429,595; Sept. 19.
Koher, John D., Wichita, Kans. Door. No. 1,429,509; Sept. 19.
Kohler, Conrad, Zurich, Switzerland. Steam-driven locomotive. No. 1,429,596; Sept. 19.
Krantz, Carl A. (See Krantz, Gust E., and C. A.)
Krantz, Gust E. and C. A., Chicago, Ill. Variable-speed gearing. No. 1,429,439; Sept. 19.
Krans, Harry W. (See Klaus, F. R., and Krans.)
Krick, Arthur E., assignor to The Humidity Control Company, Indianapolis, Ind. Calculating balance. No. 1,429,907; Sept. 19.
Krug, Louis R. (See Fasoldt, Ernest C., assignor.)
Kuenz, Joseph A., Jackson, Mich. Radiator core. No. 1,429,440; Sept. 19.
Kufta, Andrew. (See Laufer, W. A., and Kufta.)
Kulenkampff, Carl A., New York, N. Y. Ice-cream-storage apparatus. No. 1,429,887; Sept. 19.
La Maida, Thomas, New York, N. Y. Jock strap. No. 1,429,510; Sept. 19.
Lamb, Henry H., Fountain City, Tenn. Dispensing-machine supply. No. 1,429,511; Sept. 19.
Lamb, James, Canton, Ill. Telpherage system. No. 1,429,888; Sept. 19.
Lambert, George R., Huntingdon, Tenn. Developing basket. No. 1,429,889; Sept. 19.
Lambert, Henry M., assignor to Lambert Tire and Rubber Company, Portland, Oreg. Manufacturing cushion tires. No. 1,429,512; Sept. 19.
Lambert Tire and Rubber Company. (See Lambert, Henry M., assignor.)
Lander, Wintworth V., Newton, Mass. Treating wood and other porous material. No. 1,429,288; Sept. 19.
Landers, Frary & Clark. (See Warner, Alonzo A., assignor.)
Lange, Henry, Quincy, Ill. Combination coal and gas oven. No. 1,429,890; Sept. 19.
Larson, Anton, et al. (See Burlingame, Albert C., assignor.)
Latimer, John W. (See Pease, George S., assignor.)
Laufer, William A., and A. Kufta, Paterson, N. J. Sash lock. No. 1,429,891; Sept. 19.
Lawrence Carrier Corporation. (See Woodward, Alva W., assignor.)
Lechner, Matthew, New York, N. Y. Electric storage battery. (Reissue.) No. 15,457; Sept. 19.
Leech, Frank J., Ottawa, and W. H. Meyers, Utica, Ill. Combined wagon and automobile dump. No. 1,429,892; Sept. 19.
Lehmann, Gustav O., Berlin, Germany. Vacuum cleaning and dusting apparatus. No. 1,429,893; Sept. 19.
Lentz, George, deceased, by P. Denizot, administrator, Pontoise, France. Pneumatic wheel for vehicles. No. 1,429,894; Sept. 19.
Lentz, Onis J., Oakland, Calif. Frictionless rail joint. No. 1,429,895; Sept. 19.
Lesjak, Julius, Sygan, Pa. Gate releasing device. No. 1,429,597; Sept. 19.
Leslie, Freeland D., Milton, assignor to B R E Manufacturing Company, Hyde Park, Mass. Hinge. No. 1,429,518; Sept. 19.
Lewers, George E., Brooklyn, assignor to Research Corporation, New York, N. Y. Oil-seal insulator. No. 1,429,914; Sept. 19.
Lewis, Charles H., Syracuse, N. Y. Oil burner. No. 1,429,598; Sept. 19.
Lewis, Harry F., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Purification of anthraquinone. No. 1,429,514; Sept. 19.
Liebowitz, Benjamin, New Rochelle, and J. Balsam, New York, N. Y.; said Liebowitz assignor to said Balsam. Automobile lock. No. 1,429,599; Sept. 19.
Light, Bolivar L., Rogers, Ark. Marker for planter. No. 1,429,245; Sept. 19.
Lind, Jacob, Kansas City, Mo. Making electric conductors. No. 1,429,441; Sept. 19.
Linde Air Products Company, The. (See Haynes, Pierre E., assignor.)
List, Frank X., assignor to National Card Mounting Company, New York, N. Y. Display box. No. 1,429,442; Sept. 19.
Ljungström, Fredrik, Brevik, Lidingon, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Locomotive and the like provided with air cooler for condensing purposes. No. 1,429,356; Sept. 19.
Ljungström, Fredrik, Brevik, Lidingon, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Locomotive and the like provided with condensers. No. 1,429,357; Sept. 19.
Ljungström, Fredrik, Brevik, Lidingon, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Locomotive. No. 1,429,746; Sept. 19.
Locomotive Feed Water Heater Company. (See Averill, Earl A., assignor.)
Lo Monaco, Vincenzo. (See Zardimoni, Faust, assignor.)
Lucas, Walker B., Harlowton, Mont. Tire-mounting rim. No. 1,429,515; Sept. 19.
Lundin, Andreas P., Flushing, N. Y., assignor to American Balsa Company Inc. Beam structure. No. 1,429,600; Sept. 19.
Luzy, Antoine, Paris, France. Electric pocket lamp with mechanical electric generators. No. 1,429,601; Sept. 19.
Lyle, Frederick W., Toronto, Ontario, Canada. Base for incandescent lamps. No. 1,429,602; Sept. 19.
Lyngar Specialty Co. (See Lyngar, Willard, assignor.)
Lyngar, Willard, assignor to Lyngar Specialty Co., Chicago, Ill. Drink mixer. No. 1,429,747; Sept. 19.
Lytle, Harry R., Sacramento, Calif. Land leveler. No. 1,429,516; Sept. 19.
McCann, Frank, North Battleford, Saskatchewan, Canada. Shock-forming machine. No. 1,429,603; Sept. 19.
McClure, William R., Chicago, Ill. Vegetable slicer. No. 1,429,896; Sept. 19.
McCutchen, Brunson S., North Plainfield, N. J. Wringer. No. 1,429,246; Sept. 19.
McDonald, Martin A., Oakland, Calif. Playing hoop. No. 1,429,681; Sept. 19.
McFaddin, Harrison D., East Orange, N. J. Therapeutic device. No. 1,429,443; Sept. 19.
McGhee, John, Glasgow, Scotland. Combined nut and pipe wrench. No. 1,429,517; Sept. 19.
McIntyre, Guy L., Pittsburgh, Pa. Filling composition for brake shoes. No. 1,429,358; Sept. 19.
McMahon, Arthur, Scotia, Calif. Link pin for dredger-bucket chains. No. 1,429,518; Sept. 19.
McMillen, Harry. (See Rowe, Ernest N., assignor.)
MacAskill, Daniel A., assignor of one-third to J. A. Isso and one-third to A. Pacelli, Brooklyn, N. Y. Window. No. 1,429,897; Sept. 19.
Macneil, Henry T. (See Dyer, J. L., and Macneil.)
Macy, Barnett W., Jacksonville, Fla., assignor, by mesne assignments, to Electric Heating Corporation. Electric heater. No. 1,429,898; Sept. 19.
Madinger, Gottlieb F., St. Joseph, Mo. Automatic foot, toe, and ankle brace. No. 1,429,604; Sept. 19.
Maeulen, Frederick, Rahway, and G. L. Van Allen, Newark, N. J., assignors to Baker & Company, Inc. Facing pin for artificial teeth. No. 1,429,748; Sept. 19.
Maeulen, Frederick, Rahway, and G. L. Van Allen, Newark, N. J., assignors to Baker & Company, Inc. Lock for orthodontic appliances. No. 1,429,749; Sept. 19.
Maggiora, Demetrio, Florence, Italy. Process and apparatus for producing bodies under tension to be used as tires for vehicle wheels and the like. No. 1,429,605; Sept. 19.

Magnolia Petroleum Company. (See Dickens, C. S., Schley, and Newton, assignors.)
Makay, John. (See Bagi, Louis, assignor.)
Mallory, Bonnie L., Cleveland, Ohio. Nut bowl and cracker. No. 1,429,444; Sept. 19.
Mallory, William D., Memphis, Tenn. Method of and apparatus for sampling cotton. No. 1,429,899; Sept. 19.
Maranville, Harvey F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for placing washers in rubber-heel molds. No. 1,429,359; Sept. 19.
Marsh, Samuel J., Quesnel, British Columbia, Canada. Device for saving gold and other precious metals. No. 1,429,750; Sept. 19.
Marsland, Roland, Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Supporting bearing. No. 1,429,606; Sept. 19.
Martin, Goldie, Winchester, Ind. Inflammable composition for tableware. No. 1,429,360; Sept. 19.
Maschinenfabrik Oerlikon. (See Karrer, Josef, assignor.)
Matalavage, Victor, Columbus, Ohio. Combined drill and valve grinder. No. 1,429,361; Sept. 19.
Matches, William. (See Van Fleet, Irwin J., assignor.)
Mathews, Sadie L., St. Louis, Mo. Electric lock and alarm for automobiles. No. 1,429,247; Sept. 19.
Mattingly, Joseph L. (See England, W. A., and Mattingly.)
Matzet, George M., now by judicial change of name George M. Malton). (See Smith, Cloyde H., assignor.)
Maurer, Joseph F., and G. W. Beiser, Peru, Ill. Drop step for passenger coaches. No. 1,429,607; Sept. 19.
Maurer, Martin, Pueblo, Colo. Quick-weighing attachment for scales. No. 1,429,362; Sept. 19.
Maxwell, Erastus M., and I. K. Hearn, Cardinal, Va. Seesaw. No. 1,429,289; Sept. 19.
May, Joseph M., East Milton, assignor to Ryan-Cushing Co., Boston, Mass. Collar case. No. 1,429,608; Sept. 19.
Mazzullo, Edward E., Washington, D. C. Radiator cap. No. 1,429,751; Sept. 19.
Medvec, John J., Minneapolis, Minn. Billiard cue, ferrule, and tip. No. 1,429,752; Sept. 19.
Meeker, William H. (See Baldwin, Oscar C., assignor.)
Megenity, Ralph A., Kansas City, Mo. Securing facings and the like to walls and the like. No. 1,429,682; Sept. 19.
Megenity, Ralph A., Kansas City Mo. Stud for concrete construction. No. 1,429,683; Sept. 19.
Meiser, Wilhelm. (See Busch, C., and Meiser.)
Meredith, Wynn, Alameda, assignor to Petroleum Rectifying Company, San Francisco, Calif. Automatic discharge means for dehydrators. No. 1,429,363; Sept. 19.
Merritt, Edward L., Oakland, Calif. Lettering. No. 1,429,445; Sept. 19.
Meyer, Aubrey E., White Plains, N. Y. Combing device for textile fibers. No. 1,429,519; Sept. 19.
Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. No. 1,429,520; Sept. 19.
Meyers, William H. (See Leech, F. J., and Meyers.)
Michael, Willis R., York, Pa. Lock. No. 1,429,609; Sept. 19.
Michot, Georges, Dromara, Ireland, assignor to The Fibre Corporation Limited, London, England. Scutching machine for flax and other fibrous materials. No. 1,429,753; Sept. 19.
Miller, Francis, Cincinnati, Ohio. Awning bracket. No. 1,429,754; Sept. 19.
Miller, Frederick F., Napanee, Ontario, Canada. Oil burner. No. 1,429,521; Sept. 19.
Miller, Max C., Cumberland Hill, assignor to J. Fleischer, Providence, R. I. Cuff button. No. 1,429,290; Sept. 19.
Milwaukee Gas Specialty Company. (See Ruts, Arnold O., assignor.)
Miner, William H. (See Geiger, William A., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Mitchell, Andrew W., assignor to Ran W. Hat Shop Inc., Norwalk, Conn. Forming lining surfaces in hats. No. 1,429,364; Sept. 19.
Mitchell, Frank B., Hove, England. Repeating and stopping device for talking machines and the like. No. 1,429,755; Sept. 19.
Mitchell, John C., Sterling, Kans. Irrigating machine. No. 1,429,756; Sept. 19.
Mittasch, Alwin, and F. Winkler, assignors to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Manufacture of finely-divided sulphur. No. 1,429,522; Sept. 19.
Moore, Herbert L. G., Hohokus, N. J. Egg holder and carrier. No. 1,429,610; Sept. 19.
Moore, Fred, Aurora, Ill. Trunk bed. No. 1,429,523; Sept. 19.
Morgan, Fred A., Selma, Calif. Handle. No. 1,429,446; Sept. 19.
Morris, Charles F., Earlysville, Va. Plow. No. 1,429,365; Sept. 19.
Morrison Bros. (See Werts, Austin L., assignor.)
Motor Protector Manufacturing Company. (See Warner, Lawrence E., assignor.)
Mott, Samuel B., Noblesville, Ind. Furnace grate. No. 1,429,757; Sept. 19.
Moyer, David A., Birdsboro, Pa., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. No. 1,429,291; Sept. 19.
Muldner, Carl C., jr., Maplewood, Mo. Sand toy. No. 1,429,684; Sept. 19.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-cutting machine. No. 1,429,611; Sept. 19.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Mechanical movement. No. 1,429,612; Sept. 19.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling cutters. No. 1,429,613; Sept. 19.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling cutter for gears. No. 1,429,614; Sept. 19.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-cutting machine. No. 1,429,615; Sept. 19.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling cutters. No. 1,429,616; Sept. 19.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-cutting machine. No. 1,429,617; Sept. 19.
Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling cutter. No. 1,429,618; Sept. 19.
Mulvey, Robert J., Chicago, Ill. Garment fastener. No. 1,429,292; Sept. 19.
Mun-Kee Products Corporation. (See Kee, Robert H., assignor.)
Murk, Olof, Warren, Minn. Thistle eradicator. No. 1,429,293; Sept. 19.
Myers, Harry A., assignor to G. A. Beach, Philadelphia, Pa. Caddy bag. No. 1,429,524; Sept. 19.
National Aniline & Chemical Company, Inc. (See Lewis, Harry F., assignor.)
National Card Mounting Company. (See List, Frank X., assignor.)
National Safety Device Company. (See Woodring, Alberto I., assignor.)
Nasel, Ralph W. (See Fritsch, E. J., and Nasel.)
Needham, George H., assignor of one-half to G. J. Needham, Newark, N. J. Illuminated number plate. No. 1,429,758; Sept. 19.
Needham, George J. (See Needham, George H., assignor.)
Nelson, Axel M., assignor to General American Tank Car Corporation, Chicago, Ill. Tank car. No. 1,429,685; Sept. 19.
Nelson, Charles A., Utica, N. Y., assignor to Savage Arms Corporation. Recoil check. No. 1,429,619; Sept. 19.
Netherton, John W., assignor of one-half to H. C. Hardt, South Bend, Ind. Antisplashing device for automobiles. No. 1,429,366; Sept. 19.
Newberry, George I., Fulton, Ky. Seed-collector device for mowers. No. 1,429,294; Sept. 19.
Newhall, Henry B. (See Fleister, Henry W., assignor.)
Newton, John W. (See Dickens, C. S., Schley, and Newton.)
Nielsen, Elius, Vejle, Denmark. Bed or the like. No. 1,429,759; Sept. 19.
Nikolas, George J., Chicago, Ill. Protected fabric. No. 1,429,295; Sept. 19.
Nishisawa, Yushichi. (See Shibata, Y., and Nishisawa.)
Nix, J. M. (See Fletcher, Theodore, assignor.)
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Stop motion for perforating machines. No. 1,429,447; Sept. 19.
Noble, Harry G., Toledo, Ohio. Oil cup. No. 1,429,448; Sept. 19.
Nofsger, Fred N. (See George, W. C., and Nofsger.)
Nordiska Kullager Aktiebolaget. (See Svenning, Robert W., assignor.)
Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Gun-mount brake. No. 1,429,40; Sept. 19.
Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Main frame and suspension for tractors. No. 1,429,449; Sept. 19.
Norquist, Lester E., Denver, Colo. Face-illuminating razor. No. 1,429,760; Sept. 19.
Obert, Casin W., Mount Vernon, N. Y. Auxiliary pressure-relief device for steam boilers. No. 1,429,296; Sept. 19.
O'Brien, Chester J., Chicago, Ill. Concrete insert. No. 1,429,686; Sept. 19.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Coupling-release mechanism. No. 1,429,589; Sept. 19.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,429,687; Sept. 19.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,429,688; Sept. 19.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner. Making multiple-piece springs. No. 1,429,690; Sept. 19.
Odarka, Teijin, West Orange, N. J. Toy. No. 1,429,761; Sept. 19.
Olden, Frank H., Chester, Pa. Controlling means for mercerising machines. No. 1,429,525; Sept. 19.
Oliver, Nathan A., Mattapoisett, Mass. Headlight dimmer. No. 1,429,762; Sept. 19.
Oltsch, George J., South Bend, Ind. Combined shock absorber and rebound snubber for vehicle springs. No. 1,429,367; Sept. 19.

O'Marn, John J., Brooklyn, N. Y. Casserole frame. No. 1,429,763; Sept. 19.
O'Neill, Emmett J., and H. T. White, Fairmont, W. Va. Automatic stock-feeding device. No. 1,429,297; Sept. 19.
O'Quinn, Arthur M., Miami, Fla. Sizer and grader. No. 1,429,764; Sept. 19.
Oreck, Louis. (See Scheckman, Louis, assignor.)
Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Multiplex signaling system. No. 1,429,248; Sept. 19.
Otten, Oscar A. (See Carter, F. R., Otten, and Willard.)
Owler, Thomas D., and H. S. Gordon, assignors to Heywood-Wakefield Company, Wakefield, Mass. Car seat. No. 1,429,368; Sept. 19.
Pabst, Frances M., administratrix. (See Tynan, Daniel F.)
Pacelli, Angelo, et al. (See MacAskill, Daniel A., assignor.)
Pacific Mill & Mine Supply Company. (See Folsom, Ernest B., assignor.)
Pafford, Roscoe R., Wichita Falls, Tex. Adjustable square and miter. No. 1,429,765; Sept. 19.
Palmer, Richard. (See Stokes, Alfred P., assignor.)
Pandolfo, Camelo, Montevideo, Uruguay. Electrical fly-killing device. No. 1,429,691; Sept. 19.
Parker, Fred G., Paterson, N. J. Seating appliance. No. 1,429,249; Sept. 19.
Parker, J. H., & Son, Incorporated. (See Parker, William M., assignor.)
Parker, William M., assignor to J. H. Parker & Son, Incorporated, Parkersburg, W. Va. Attaching device. No. 1,429,369; Sept. 19.
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Track for sliding doors. No. 1,429,620; Sept. 19.
Passavanti, Gerardo, New York, N. Y. Film reel. No. 1,429,692; Sept. 19.
Patterson, Curtis J., Kansas City, Mo., assignor to The Campbell Baking Company, Wilmington, Del. Determining condition of dough for bakery products during fermentation process. No. 1,429,526; Sept. 19.
Patterson, John W., assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Hose connection. No. 1,429,766; Sept. 19.
Paul, Henry A., Muskogee, Okla. Hinge. No. 1,429,527; Sept. 19.
Paylor, Lonnie J., Danville, Va. Tobacco-hanging machine. No. 1,429,250; Sept. 19.
Payne, Pearson M., Pittsburgh, Pa. Throttle-control mechanism. No. 1,429,528; Sept. 19.
Pearson, August E., Toronto, Ontario, Canada. Babbitting machine. No. 1,429,767; Sept. 19.
Pease, George S., West Carrollton, assignor to John W. Latimer, Lakewood, Ohio. Fire-resistant composition. No. 1,429,451; Sept. 19.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,429,621; Sept. 19.
Peiffer, John M., Bloomington, assignor of one-half to E. J. German, Normal, Ill. Cleaner for the casting pots or pot wells of linotype and intertype machines. No. 1,429,900; Sept. 19.
Penniman, William B. D., Baltimore, Md. Apparatus for cracking oils. No. 1,429,622; Sept. 19.
Penniman, William B. D., Baltimore, Md. Apparatus for cracking oils. No. 1,429,623; Sept. 19.
Perkins, Bert B., Monticello, Minn. Silage cover. No. 1,429,624; Sept. 19.
Perrot, Heinrich, Calw, Germany. Compasses. No. 1,429,625; Sept. 19.
Petroleum Rectifying Company. (See Meredith, Wynn, assignor.)
Peyton, Joseph I., Chicago, Ill., and S. E. Hitt, Elyria, Ohio. Hot-top ingot mold. No. 1,429,251; Sept. 19.
Phillips, Edgar V., Jamestown, N. Y. Combination fruit-jar opener and sealer. No. 1,429,452; Sept. 19.
Piette, Olivier, Brussels, Belgium, assignor, by mesne assignments, to Belgian American Coke Ovens Corporation, Wilmington, Del. Coke-oven wall. No. 1,429,252; Sept. 19.
Pillion, Louis, Dijon, France. Electric clock. No. 1,429,693; Sept. 19.
Pleister, Henry W., Westfield, N. J., assignor to H. B. Newball. Bolt anchor. No. 1,429,298; Sept. 19.
Pleister, Henry W., Westfield, N. J., assignor to H. B. Newball. Bolt anchor. No. 1,429,299; Sept. 19.
Plochocki, Antony, assignor to himself and A. Weisman, Brooklyn, N. Y. Soldering iron. No. 1,429,626; Sept. 19.
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Counter and shank fastening machine. No. 1,429,694; Sept. 19.
Porter, J. E., Corporation. (See Weintz, William L., assignor.)
Pouchain, Adolfo, Turin, Italy. Negative plate for electric accumulators and the manufacture thereof. No. 1,429,300; Sept. 19.
Power, Harold J., Somerville, assignor to American Radio & Research Corporation, Medford, Mass. Inductance device. No. 1,429,453; Sept. 19.
Pratt & Whitney Company. (See Müller, Friederich assignor.)
Price, James B., Cross Keys, assignor of one-half to L. Silverthorne, Newport, England. Double-acting internal-combustion engine. No. 1,429,695; Sept. 19.
Primus, Charles C., Ewing, Nebr. Wagon-pole extension. No. 1,429,769; Sept. 19.
Proffitt, John H., Fresno, assignor of one-half to R. Haass, Los Angeles, Calif. Auxiliary air intake for internal-combustion engines. No. 1,429,770; Sept. 19.
Proulx, Arthur A. (See Frank, John J., assignor.)
Putnam, Burleigh, Pasadena, Calif. Machine gun. No. 1,429,370; Sept. 19.
Pyburn, George, Airdrie, Scotland. Compound wire rope. No. 1,429,529; Sept. 19.
Pyle National Company, The. (See Dake, Charles W., assignor.)
Ran W Hat Shop Inc. (See Mitchell, Andrew W., assignor.)
Rand, James H., jr., Tonawanda, N. Y. Record cabinet. No. 1,429,628; Sept. 19.
Rand, James H., jr., and V. F. King, assignors to American Cardex Co. Inc., Tonawanda, N. Y. Cabinet. No. 1,429,627; Sept. 19.
Randlett, Willie O., Richmond, Va. assignor of one-half to C. B. Buchanan. Device for cleaning flume gratings. No. 1,429,629; Sept. 19.
Ransdell, Robert W., San Diego, Calif. Combination magneto contact and oil conductor for engine crank cases. No. 1,429,454; Sept. 19.
Raymond, William M., Stamford, Conn. Vehicle brake. No. 1,429,771; Sept. 19.
Reach, George A. (See Myer, Harry A., assignor.)
Reardon, Daniel B., Council Bluffs, Iowa. Road maintainer. No. 1,429,768; Sept. 19.
Rebideau, Louis N., Basin, Wyo. Lid holder. No. 1,429,630; Sept. 19.
Reeves, Edwin A., Milford, Conn. Vacuum cleaner. No. 1,429,530; Sept. 19.
Reeves, Edwin A., Milford, Conn. Vacuum cleaner. No. 1,429,531; Sept. 19.
Reeves, Edwin A., Milford, Conn. Vacuum cleaner. No. 1,429,532; Sept. 19.
Reeves, Edwin A., Milford, Conn. Vacuum cleaner. No. 1,429,533; Sept. 19.
Reichard, Louis, Easton, Pa. Motor. No. 1,429,772; Sept. 19.
Reilly, James F., Philadelphia, Pa. Cable carrier. No. 1,429,631; Sept. 19.
Reilly, James F., Philadelphia, Pa. Cable carrier. No. 1,429,632; Sept. 19.
Reiter, Joseph, New York, N. Y. Life-saving and swimming apparatus. No. 1,429,773; Sept. 19.
Remington Typewriter Company. (See Gehrett, Walter P., assignor.)
Renner, Harold G., Gisborne, New Zealand. Carburetor. No. 1,429,534; Sept. 19.
Research Corporation, (See Lewers, George B., assignor.)
Rex Machine Tool Company. (See Callebert, Alfonse, assignor.)
Rhenstrom, Anthony, Kenosha, Wis. Wire bending and knotting machine. No. 1,429,253; Sept. 19.
Rhoades, Mayham W., Highland, N. Y. Portable fence. No. 1,429,774; Sept. 19.
Rice Gas Engine Company. (See Rice, John V., jr., assignor.
Rice Improved Valve & Manufacturing Company. (See Rice, Reece, assignor.)
Rice, John V., jr., assignor to Rice Gas Engine Company, Bordentown, N. J. Oscillating internal-combustion engine. No. 1,429,254; Sept. 19.
Rice, Reece, assignor, by mesne assignments, to Rice Improved Valve & Manufacturing Company, Indianapolis, Ind. Filling composition. No. 1,429,455; Sept. 19.
Richards, Charles E. (See Richards, James E. W. and C. E.)
Richards, James E. W. and C. E., Arapahoe, Nebr. Stock waterer. No. 1,429,535; Sept. 19.
Richmond, Henry E., Bennington, Vt. Knockdown wardrobe. No. 1,429,456; Sept. 19.
Richmond Radiator Company. (See Heberling, Ralph H., assignor.)
Riedmueller, Jacob, New York, N. Y. Coin-controlled vending machine. No. 1,429,633; Sept. 19.
Righter, James B., East Ellsworth, Wis. Grain-milling machine. No. 1,429,906; Sept. 19.
Ring, John F., jr., Auburn, N. Y. Grease pump. No. 1,429,255; Sept. 19.
Ritchie, Harry R., Springfield, Mass. Window-sash-latching device. No. 1,429,256; Sept. 19.
Ritzel, George B. (See Klein, R., and Ritzel.)
Roberts, Arthur S., Greenville, S. C., assignor, by mesne assignments, to Surpass Chemical Co., Inc. Bleaching and dyeing vegetable and animal fibers. No. 1,429,775; Sept. 19.
Robinson, Charles, Reigate, and R. M. Chamney, London, England. Telephonic repeater. No. 1,429,634; Sept. 19.
Robinson, Frank T., Louisville, Ky., assignor of one-half to C. T. Howland, Petersburg, Va. Door fastener. No. 1,429,536; Sept. 19.
Robinson, William J., Harrisburg, Pa. Support and making same. No. 1,429,776; Sept. 19.
Roller, Conrad C., Buffalo, N. Y. Metallurgical furnace. No. 1,429,777; Sept. 19.
Ronca, Louis, Jersey City, N. J. Steering-wheel lock. No. 1,429,696; Sept. 19.
Ross, Emmett H., Jamestown, N. Y. Comb. No. 1,429,635; Sept. 19.
Rothermund, Werner F. Brooklyn, N. Y. Air brush. No. 1,429,537; Sept. 19.

Rowe, Ernest N., assignor of one-half to H. McMillen, Glenwood Springs, Colo. Snow vehicle. No. 1,429,636; Sept. 19.
Russell, Mitchell W., Springfield, Mass. Faucet. No. 1,429,637; Sept. 19.
Rutz, Arnold O., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Belt. No. 1,429,638; Sept. 19.
Ryan-Cushing Co. (See May, Joseph M., assignor.)
Safety Car Heating & Lighting Company. (See Varley, Thomas W., assignor.)
Sallmann, Frank, Lyndhurst, N. J. Amusement-park device. No. 1,429,457; Sept. 19.
Saloun, Martin, assignor of thirty per cent to C. Stepanek, Milwaukee, Wis. Wrench. No. 1,429,639; Sept. 19.
Samuels, Daniel B., New York, N. Y., assignor of one-fourth to F. H. Bradley, Short Hills, N. J., and three-fourths to Interchangeable Lock Sign Co., Inc. Display device. No. 1,429,458; Sept. 19.
Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. No. 1,429,640; Sept. 19.
Savage Arms Corporation. (See Nelson, Charles A., assignor.)
Savage, Orville A., Paso Robles, Calif. Support. No. 1,429,778; Sept. 19.
Sayko, Louis, Boise, Idaho. Buckle. No. 1,429,641; Sept. 19.
Schaffner, Jacob. (See Bloedow, H., and Schaffner.)
Scheckman, Louis, assignor of one-half to L. Oreck, Duluth, Minn. Canning device. No. 1,429,779; Sept. 19.
Schetzel, Marx P., Oakland, Calif. Transmitting fan. No. 1,429,538; Sept. 19.
Schley, Thomas E. (See Dickens, C. S., Schley, Newton.)
Schlottmann, Frederick H., Brooklyn, N. Y. Shoe-polishing device. No. 1,429,642; Sept. 19.
Schmit, Emil. (See Hansen, G., and Schmit.)
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Edward J., St. Louis, Mo. Flushing receptacle. No. 1,429,643; Sept. 19.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for producing hooping effects in metal tubes. No. 1,429,539; Sept. 19.
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Two-axled vehicle for transporting heavy gun barrels and in the adaption of guns for the use of such vehicles. No. 1,429,540; Sept. 19.
Schneider, Herman D., Brunner, Ontario, Canada. Elevating loader. No. 1,429,780; Sept. 19.
Schnug, Louis J. B., San Diego, Calif. Water still. No. 1,429,541; Sept. 19.
Schol, Carl H., Allendorf, Dillkreis, Germany. Press for the manufacture of stones. No. 1,429,459; Sept. 19.
Schreiner, Vincent, Toledo, Ohio. Radiator core. No. 1,429,644; Sept. 19.
Schroeder Brothers Manufacturing Company. (See Schroeder, Hugo F., assignor.)
Schroeder, Hugo F., assignor to Schroeder Brothers Manufacturing Company, Torrington, Conn. Making nuts and article made thereby. No. 1,429,645; Sept. 19.
Schultz, Max M., Detroit, Mich. Kitchen cabinet. No. 1,429,697; Sept. 19.
Schulz, Carl F., Brooklyn, N. Y. Carburetor. No. 1,429,257; Sept. 19.
Schulz, M., Company. (See Gustafson, Adolph P., assignor.)
Schutte, Charles C., Indianapolis, Ind. Pneumatic paper control for printing presses. No. 1,429,301; Sept. 19.
Schweitzer, Hugo, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Blue wool dyestuff. No. 1,429,781; Sept. 19.
Schweitzer, Hugo, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Reddish-violet monoazo dye for wool. No. 1,429,782; Sept. 19.
Scott, Ephriam J. (See Bowen, E. F., and Scott.)
Scott, John L., London, England. Plate heater. No. 1,429,783; Sept. 19.
Seamless Rubber Company, The. (See Patterson, John W., assignor.)
Se'rod, Alf, Chicago, Ill. Combined compressor and condenser. No. 1,429,460; Sept. 19.
Shadinger, Mark H., and C. M. Jones, Sacramento, Calif. Pawk savings system. No. 1,429,461; Sept. 19.
Shaeffer, Charles A., assignor of one-third to H. E. Sherman and one-third to L. A. Sherman, Kansas City, Mo. Shotgun shell. No. 1,429,646; Sept. 19.
Shaffer, William D., Santa Paula, Calif. Rope socket. No. 1,429,371; Sept. 19.
Shamp, Jesse M., Wooster, Ohio. Sand and gravel loader. No. 1,429,372; Sept. 19.
Sharp, Charles S., Auburn, N. Y., assignor to International Harvester Company. Tandem disk harrow. No. 1,429,462; Sept. 19.
Shawinigan Laboratories, Limited. (See Skirrow, Frederick W., assignor.)
Sheen, Milton R., assignor to Tunnel Machine Manufacturing and Engineering Company, Philadelphia, Pa. Machine for building tunnels and the like. No. 1,429,647; Sept. 19.
Sherman, Harry E., et al. (See Shaeffer, Charles A., assignor.)
Sherman, Louie A., et al. (See Shaeffer, Charles A., assignor.)
Shibata, Yuji, Tokyo Fu, and Yushichi Nishizawa, Tokyo, Japan. Drying Japanese lacquer. No. 1,429,542; Sept. 19.
Shiffer, William S., and V. L. Zwally, Lancaster, Pa. Sled brake. No. 1,429,648; Sept. 19.
Sievert, Christ. Calio, N. Dak. Harness hanger. No. 1,429,784; Sept. 19.
Silverthorne, Luther. (See Price, James B., assignor.)
Simons, Andrew, Grand Haven, Mich. Refrigerator. No. 1,429,649; Sept. 19.
Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)
Singer Manufacturing Company, The. (See Card, Frederic M., assignor.)
Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
Skirrow, Frederick W., Shawinigan Falls, assignor to Shawinigan Laboratories, Limited, Montreal, Quebec, Canada. Manufacturing aldehydes and anhydrides from diesters. No. 1,429,650; Sept. 19.
Slaght, Anna W., Evanston, Ill. Baggage stand for hotel guest rooms. No. 1,429,651; Sept. 19.
Small, James W., Chicago, Ill. Liquid aerator. No. 1,429,652; Sept. 19.
Smith, Cloyde H., North Adams, Mass., assignor of one-half to G. M. Matzet (now by judicial change of name G. M. Malton), Brooklyn, N. Y. Self-adjustable line gauge. No. 1,429,785; Sept. 19.
Smith, Dan, Esto, La. Rail joint. No. 1,429,543; Sept. 19.
Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Metallic receptacle and making the same. No. 1,429,698; Sept. 19.
Smith, James, Glasgow, Scotland. Liquid-fuel burner. No. 1,429,373; Sept. 19.
Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. No. 1,429,786; Sept. 19.
Smulski, Theodore J., Chicago, Ill., assignor to O. E. Joseph, Detroit, Mich. Road recorder and indicator. No. 1,429,374; Sept. 19.
Snow, Barton S., Batavia, assignor to T. W. Snow Construction Co., Chicago, Ill. Hoisting mechanism. No. 1,429,653; Sept. 19.
Snow, T. W., Construction Co. (See Snow, Barton S., assignor.)
Snyder, Frank B., Altoona, Pa. Resilient vehicle wheel. No. 1,429,787; Sept. 19.
Snyder, George C., New York, N. Y. Mechanical movement. No. 1,429,654; Sept. 19.
Société Anonyme des Ateliers d'Aviation Louis Bréguet. (See Breguet, Louis, assignor.)
Solish, Edward M., Hatton, N. Dak. Door-supporting clamp. No. 1,429,788; Sept. 19.
Southern Electrolyte Battery Company. (See Hornsby, Moses W., assignor.)
Spring, Frederick L., Indianapolis, Ind. Shock absorber. No. 1,429,699; Sept. 19.
Squyer, Albert R., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Calculator for tractor performance. No. 1,429,463; Sept. 19.
Stahl, Allen A., Sheridan, Ind. Attachment for corn planter. No. 1,429,700; Sept. 19.
Standard Chemical Company. (See Vogt, Louis F., assignor.)
Standard Sheet Metal Works. (See Bloedow, H., and Schaffner, assignors.)
Stanke, William C., Hoboken, N. J. Toy. No. 1,429,789; Sept. 19.
Stanley Insulating Company. (See Smith, Herbert M., assignor.)
Stanley Works, The. (See Parsons, Stuart W., assignor.)
Stark, Ottmar G. (See Flammang, John, assignor.)
Steele, John G., Amarillo, Tex. Feed mixer. No. 1,429,790; Sept. 19.
Steinmetz, Stefan, Berlin, Germany. Disk mill. No. 1,429,258; Sept. 19.
Stell, Alfred, Steeton, and J. Stell, Keighley, England. Doffing apparatus for spinning, doubling, twisting, and like machines. No. 1,429,375; Sept. 19.
Stell, John. (See Stell, Alfred and J.)
Stanzel, John, jr., Windsor, Colo. Safety device for motors. No. 1,429,655; Sept. 19.
Stepanek, Charles. (See Saloun, Martin, assignor.)
Stephens, Jay Q., Kansas City, Mo. Combined shipping and dispensing package. No. 1,429,701; Sept. 19.
Stephenson, George S., Los Angeles, Calif. Farm implement. No. 1,429,376; Sept. 19.
Stevens, Blamey, Triunfo, Baja California, Mexico. Differential flotation process. No. 1,429,544; Sept. 19.
Stewart, Albert D. (See Cumfer, H. A., and Stewart.)
Stewart, Joseph F. (See Daniell, George J., assignor.)
Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Starting and stopping mechanism for presses. No. 1,429,302; Sept. 19.
Still, Carl. (See Still, Carl, assignor.)
Still, Carl, assignor to Firm Carl Still, Recklinghausen, Germany. Apparatus for quenching, loading, and screening coke. No. 1,429,791; Sept. 19.
Stirlss, Jacob, New York, N. Y. Envelope-closure tool. No. 1,429,792; Sept. 19.
Stokes, Alfred P., St. Heliers, Jersey, Channel Islands. Producing suspensory bandages. No. 1,429,545; Sept. 19.

Stokes, Alfred P., St. Heliers, Jersey, Channel Islands, assignor to Richard Palmer, New York, N. Y. Inhaling device for use in the treatment of asthmatic, catarrhal, and other affections. No. 1,429,546; Sept. 19.

Stonebridge, William E., New York, N. Y. Impelling device for games. No. 1,429,656; Sept. 19.

Strauss, Edwin T., La Crosse, Wis. Center-finding instrument. No. 1,429,793; Sept. 19.

Strauss, Ferdinand, Inc. (See Irenius, Joseph V., assignor.)

Strier, Charles, assignor to J. Strier, Brooklyn, N. Y. Hair comb. No. 1,429,794; Sept. 19.

Strier, Jennie. (See Strier, Charles, assignor.)

Strom, Gustav A., Minneapolis, Minn. Motor governor. No. 1,429,795; Sept. 19.

Stüttgen, Otto, Futerbog, Germany. Device for stretching wire and wire ropes. No. 1,429,796; Sept. 19.

Subers, Lawrence A., Lakewood, Ohio. Mold for transverse and annular pneumatic tires. No. 1,429,377; Sept. 19.

Submarine Signal Company. (See Fessenden, Reginald A., assignor.)

Submarine Signal Company. (See Wood, Edward C., assignor.)

Sulek, Kazimiez. (See Zukrzewski, R., and Sulek.)

Sumbling Machinery Company. (See Sumbling, William H., assignor.)

Sumbling, William H., assignor to Sumbling Machinery Company, Limited, Toronto, Ontario, Canada. Fluid-tight joint. No. 1,429,303; Sept. 19.

Surpass Chemical Co. (See Roberts, Arthur S., assignor.)

Svenning, Robert W., Gottenborg, assignor to Nordiska Kullager Aktiebolaget, Reguliusgatan, Lundby, Gottenborg, Sweden. Apparatus for the revision of balls. No. 1,429,797; Sept. 19.

Sweeden, Alexander F., Long Island City, N. Y. Feeding, sorting, and collecting mechanism. No. 1,429,547; Sept. 19.

Tagliaferry, Orestes, Cincinnati, Ohio. Nonskidding device for shoes. No. 1,429,259; Sept. 19.

Taylor Instrument Companies. (See Brown, Henry B., assignor.)

Taylor, Willie, Farsley, near Leeds, England. Fire-extinguishing apparatus for cinematographs. No. 1,429,548; Sept. 19.

Tempest, William W., Oakland, Calif. Valve-operating mechanism for flush tanks. No. 1,429,798; Sept. 19.

Tesdell, Edward S., Des Moines, Iowa. Electric heater for steering wheels. No. 1,429,799; Sept. 19.

Thayer, Russell, Philadelphia, Pa. Extraction of platinum and similar metals from their sands and ores. No. 1,429,378; Sept. 19.

Thero, Charlie, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Waistband for trousers. No. 1,429,800; Sept. 19.

Thomas, James, Los Angeles, Calif. Ignition-point-grinding device. No. 1,429,801; Sept. 19.

Thompson, Charles F., Los Angeles, Calif. Advertising curtain for theaters. No. 1,429,802; Sept. 19.

Thompson, Peter H., Rome Township, Faribault County, Minn. Tandem two-belt fan drive for tractor engines. No. 1,429,464; Sept. 19.

Thun, Hermann, Essen, assignor to Fried. Krupp, Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Surface-measuring device especially for leather. No. 1,429,803; Sept. 19.

Tilden, Bert O., assignor to B. O. T. Mfg. Co., Trenton, N. J. Flush tank. No. 1,429,304; Sept. 19.

Tirometer Valve Corporation of America. (See Badowski, Alfred, assignor.)

Tjenall, Erick, Omaha, Nebr. Saw. No. 1,429,549; Sept. 19.

Toledo Scale Company. (See Wetzel, Lewis C., assignor.)

Toledo Standard Commutator Company, The. (See Janke, Henry P., assignor.)

Tolg, Clarence C., Minneapolis, Minn. Tag. No. 1,429,465; Sept. 19.

Tooker, Harry L., Taunton, Mass. Soft-collar clasp. No. 1,429,804; Sept. 19.

Traub, Edward. (See Traub, George, W., and E.)

Traub, George, W., and E., Waco, Tex. Roadside sign. No. 1,429,805; Sept. 19.

Traub, William. (See Traub, George, W., and E.)

Trawinski, Stephen, Chicago, Ill. Shoe-lacing means. No. 1,429,657; Sept. 19.

Trent, Harry E., Rochester, N. Y. Shoemaker's last. No. 1,429,702; Sept. 19.

Tunnel Machine Manufacturing and Engineering Company. (See Sheen, Milton R., assignor.)

Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Oiling system for transmissions. No. 1,429,466; Sept. 19.

Turner, James, and P. P. Crabill, Springfield, Ohio. Bumper for automobiles. No. 1,429,806; Sept. 19.

Turner, Joseph V., Wilson, N. C. Centrifugal casting machine. No. 1,429,807; Sept. 19.

Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel retainer. No. 1,429,808; Sept. 19.

Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel retainer. No. 1,429,809; Sept. 19.

Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel retainer. No. 1,429,810; Sept. 19.

Tynan, Daniel E., deceased, Cincinnati; F. M. Pabst, administratrix, South Norwood, Ohio. Register attachment. No. 1,429,811; Sept. 19.

Ulrich, Pearl E., Chicago, Ill. Belt dressing. No. 1,429,467; Sept. 19.

Underwood Typewriter Company. (See Kelly, William A., assignor.)

Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Preparing furnace linings. No. 1,429,909; Sept. 19.

Union Special Machine Company. (See Thero, Charlie, assignor.)

United Shoe Machinery Corporation. (See Brennan, William J., assignor.)

United Shoe Machinery Corporation. (See Enslin, Herbert E., assignor.)

United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)

United Shoe Machinery Corporation. (See Meyer, William C., assignor.)

United Shoe Machinery Corporation. (See Moyer, David A., assignor.)

United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)

United Shoe Machinery Corporation. (See Stewart, William C., assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United States Cast Iron Pipe & Foundry Company. (See Brown, Oakley T., assignor.)

Urevig, Iver, Williston, N. Dak. Automobile sled. No. 1,429,658; Sept. 19.

Utley, Thomas, Liverpool, England. Ship's light. No. 1,429,379; Sept. 19.

Van Allen, George L. (See Maenlen, F., and Van Allen.)

Van Allen, George L., Prince Bay, N. Y., assignor to Baker & Company, Inc. Fluxed solder. No. 1,429,703; Sept. 19.

Vanderbeck, Isadore, Huntsville, Mo. Chicken coop. No. 1,429,704; Sept. 19.

Van Fleet, Irwin J., assignor to W. Matches, Hamilton, Ontario, Canada. Food dispenser. No. 1,429,260; Sept. 19.

Van Horn, John, San Francisco, Calif. Wrench. No. 1,429,812; Sept. 19.

Van Leeuwen, Adrian, Worcester, Mass. Automobile extricating attachment. No. 1,429,305; Sept. 19.

Van Marle, Martin, Dudley, England. Continuous annealing furnace. No. 1,429,380; Sept. 19.

Varley, Thomas W., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Electrical apparatus. No. 1,429,381; Sept. 19.

Vaughan, Henry A., assignor of one-half to G. F. Cothran, Selma, Ala. Toy circus. No. 1,429,382; Sept. 19.

Verdin, Innes T., assignor to The Verdin Kappes & Verdin Company, Cincinnati, Ohio. Power-mechanism trip device. No. 1,429,468; Sept. 19.

Verdin Kappes & Verdin Company, The. (See Verdin, Innes T., assignor.)

Vining, Leonard E., Lucknow, India. Apparatus for preventing theft from closed compartments. No. 1,429,306; Sept. 19.

Vogt, Louis F., Washington, assignor to Standard Chemical Company, Pittsburgh, Pa. Ore concentration. No. 1,429,550; Sept. 19.

Votaw, Ernest D., Kansas City, Mo. Change making and registering machine. No. 1,429,307; Sept. 19.

Wächtler, Franz L., Grossenhain, Germany. Tool-grinding machine. No. 1,429,308; Sept. 19.

Walker, Lewes D., Sacramento, Calif. Overtire. No. 1,429,659; Sept. 19.

Warner, Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Means for adjusting vacuum-cleaner nozzles. No. 1,429,383; Sept. 19.

Warner, George F., Ennis, Tex. Cultivator. No. 1,429,384; Sept. 19.

Warner, Lawrence E., Berkeley, assignor to Motor Protector Manufacturing Company, San Francisco, Calif. Thermal relay. No. 1,429,660; Sept. 19.

Warren, John H. (See Kiefer, W. F., and Warren.)

Warth, Nathaniel G., Columbus, Ohio. Inner tube for pneumatic tires. No. 1,429,385; Sept. 19.

Waters, Henry, Bisbee, Ariz. Shoe stretcher. No. 1,429,661; Sept. 19.

Watson, Harry W., Memphis, Tenn. Wrench. No. 1,429,386; Sept. 19.

Watts, Zena, Chicago, Ill. Tongs. No. 1,429,813; Sept. 19.

Way, Edward J., Johannesburg, Transvaal, South Africa. Delivering cinematograph film for exhibition. No. 1,429,469; Sept. 19.

Webber, William, La Grange, Ill., assignor to International Harvester Company. Endless apron for harvesters. No. 1,429,470; Sept. 19.

Weber, Wilhelm, assignor to Firm Gewerkschaft Hausbach II, Wiesbaden, Germany. Flushing hopper for shallow and deep dredgers. No. 1,429,387; Sept. 19.

Wedemann, Richard, Brunswick, Germany. Folding seat convertible into bed. No. 1,429,388; Sept. 19.

Weintz, William L., assignor to J. E. Porter Corporation, Ottawa, Ill. Gate latch. No. 1,429,389; Sept. 19.

Weisman, Adam. (See Plochocki, Antony, assignor.)

Weiss, Albert T., Rochester, N. Y. Wire-bending machine. No. 1,429,814; Sept. 19.

Wellington, Arthur W., assignor to The Chase Companies, Inc., Waterbury, Conn. Flash light or battery hand lamp. No. 1,429,261; Sept. 19.

Weis, Franz, Vienna, Austria. Power-transmission mechanism. No. 1,429,815; Sept. 19.

Wenger, Aaron, Bayonne, N. J. Hairpin. No. 1,429,816; Sept. 19.

Wertz, Austin L., Dubuque, Iowa, assignor to Morrison Bros. Unloading rack. No. 1,429,262; Sept. 19.

West, Andrew J., Andrews, S. C. Tire changer and carrier. No. 1,429,817; Sept. 19.

Western Electric Company. (See De Coster, Charles J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)

Westinghouse Electric and Manufacturing Company. (See Marsland, Roland, assignor.)

Wetzel, Lewis C., Windsor, Ontario, Canada, assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. No. 1,429,662; Sept. 19.

Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Wood-heel-seating machine. No. 1,429,309; Sept. 19.

Whitcomb, Frederick L., Clyde, Ohio. Can opener. No. 1,429,471; Sept. 19.

White, Hubert T. (See O'Neill, E. J., and White.)

Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Construction for traction engines. No. 1,429,472; Sept. 19.

Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. No. 1,429,473; Sept. 19.

Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. No. 1,429,474; Sept. 19.

Wickersham, Elmer E., Oakland, assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor main frame and suspension. No. 1,429,475; Sept. 19.

Wicks, Maurice A., assignor to Kelvinator Corporation, Detroit, Mich. Thermostat. No. 1,429,476; Sept. 19.

Willard, John C. (See Carter, F. R., Otten, and Willard.)

Williams, Frank C., Salt Lake City, Utah. Combined seat and bed. No. 1,429,390; Sept. 19.

Williams, Frank P., Detroit, Mich. Drag link. No. 1,429,705; Sept. 19.

Williams, Jessie B., Graniteville, S. C. Bearing. No. 1,429,663; Sept. 19.

Williamson, James E., South Orange, N. J. Filter-bottom construction. No. 1,429,477; Sept. 19.

Wilson, Lawrence J., Coleman, Tex. Wheel-spoke tightener. No. 1,429,706; Sept. 19.

Winkler, Fritz. (See Mittasch, A., and Winkler.)

Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,429,310; Sept. 19.

Witt, Martin F., Los Angeles, Calif. Means for burning crude oil. No. 1,429,478; Sept. 19.

Wolf, Emil E. (See Henser, John H., assignor.)

Wolfe, John A., Tulsa, Okla. Deep-well fishing tool. No. 1,429,263; Sept. 19.

Wood, Clarence G., assignor to Hoosier Clutch Company, Muncie, Ind. Clutch-lever collar. No. 1,429,479; Sept. 19.

Wood, Edward C., Somerville, Mass., assignor to Submarine Signal Company, Portland, Me. Diaphragm tuning. No. 1,429,664; Sept. 19.

Wood, James N., Washington, D. C. Hydraulic press. No. 1,429,665; Sept. 19.

Woodring, Alberto L., assignor, by mesne assignments, to National Safety Device Company, Waterloo, Iowa. Automatic bell-ringing device. No. 1,429,666; Sept. 19.

Woodward, Alva W., Akron, Ohio, assignor, by mesne assignments, to Lawrence Carrier Corporation, Wilmington, Del. Tire carrier. No. 1,429,667; Sept. 19.

Woolf Cycle Motor Company, The. (See Woolf, Ellis J. and J. F., assignors.)

Woolf, Ellis J. and J. F., assignors to The Woolf Cycle Motor Company, Minneapolis, Minn. Gas engine. No. 1,429,818; Sept. 19.

Woolf, Jay F. (See Woolf, Ellis J. and J. F.)

Worth, Edmund W., assignor to American Optical Company, Southbridge, Mass. Grinding machine. No. 1,429,819; Sept. 19.

Wright, John W., Philadelphia, Pa., assignor to American Telephone and Telegraph Company. Calculating guy rule. No. 1,429,264; Sept. 19.

Zakrzewski, Rudolph and K. Sulek, Thorpe, W. Va. Fire-alarm box. No. 1,429,668; Sept. 19.

Zardinoni, Faust, assignor of one-half to V. Lo Monaco, Chicago, Ill. Dumping truck. No. 1,429,820; Sept. 19.

Zimmermann, Friedrich. (See Heyn, H., and Zimmermann.)

Zimmerman, George O., Mason City, Ill. Holder for spark plugs. No. 1,429,669; Sept. 19.

Zwally, Victor L. (See Shiffer, W. S., and Zwally.)

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Anthony, Thomas C., Brooklyn, N. Y. Direction indicator for vehicles. No. 61,492; Sept. 19.

Brunswick-Balke-Collender Company, The. (See Hine, Cicero, assignor.)

Carnal, William D., Akron, Ohio, assignor to Ray Puncture Proof Tire Company, Chicago, Ill. Tire. No. 61,493; Sept. 19.

Carr-Lowrey Glass Co. (See Newell, Louis B., assignor.)

Clow, James B., & Sons. (See Zettler, Emil, assignor)

Erasmic Company, The. (See Maier, John A., assignor.)

Fisk Rubber Company, The. (See Githens, Herbert A., assignor.)

Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Candlestick. Nos. 61,494–7; Sept. 19.

Githens, Herbert A., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 61,498; Sept. 19.

Grossman, Herman W., New York, N. Y. Lighting fixture. No. 61,500; Sept. 19.

Grossman, Herman W., New York, N. Y. Lighting-fixture arm. No. 61,499; Sept. 19.

Hine, Cicero, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Phonograph cabinet. No. 61,501; Sept. 19.

Lipscomb, Junious A., Baltimore, Md. Lamp. No. 61,502; Sept. 19.

Maier, John A., London, assignor to The Erasmic Company, Limited, Warrington, England. Bottle. No. 61,503; Sept. 19.

Morris, Harry, Chicago, Ill. Display cabinet. No. 61,504; Sept. 19.

Newell, Louis B., assignor to Carr-Lowery Glass Co., Baltimore, Md. Jar. No. 61,505; Sept. 19.

Newell, Louis B., assignor to Carr-Lowery Glass Co., Baltimore, Md. Bottle. No. 61,506; Sept. 19.

Noe, William R., & Sons. (See Roettges, Frederick, assignor.)

Phoenix Light Company. (See Pike, Edwin B., assignor.)

Pike, Edwin B., assignor to Phoenix Light Company, Milwaukee, Wis. Lamp standard. Nos. 61,507–8; Sept. 19.

Poritz, Frederick M., New York, N. Y., assignor to Scott-Ullman Company, Cleveland, Ohio. Arm for lighting fixtures. No. 61,509; Sept. 19.

Ray Puncture Proof Tire Company. (See Carnal, William D., assignor.)

Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Pedestal for lighting fixtures. Nos. 61,510–11; Sept. 19.

Scott-Ullman Company. (See Poritz, Frederick M., assignor.)

Wadsworth Watch Case Company, The. (See Williams, Lois M., assignor.)

Weidlich Bros. Mfg. Co., The. (See Flauder, Alfred J., assignor.)

West, Clifton, London, England. Container for gramophone needles. No. 61,512; Sept. 19.

Williams, Lois M., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase pendant. No. 61,513; Sept. 19.

Zettler, Emil, assignor to James B. Clow & Sons, Chicago, Ill. Gas heater. No. 61,514; Sept. 19.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abell, Walter, El Campo, Tex. Medicinal preparation for treatment of loin disease in cattle. No. 158,875; Sept. 19.

Akron Mattress Manufacturing Company, The, Akron, Ohio. Mattresses, springs, pillows. Nos. 158,876–7; Sept. 19.

Alma Manufacturing Co. of Baltimore City, Baltimore, Md. Suspender buckles, buckles for men's and boys' clothing. No. 158,878; Sept. 19.

American Chair Company, Sheboygan, Wis. Household chairs, rockers, tables, beds, dressers, desks, and fiber office furniture. No. 158,879; Sept. 19.

American Garment Co., Indianapolis, Ind. Women's and children's aprons, dresses, night gowns, and children's play suits. No. 158,880; Sept. 19.

American Oil Co. (See Blaustein, Louis.)

American Tripoli Company, Seneca, Mo. Buffing Compounds. No. 158,881; Sept. 19.

Angel International Corporation, New York, N. Y. Paper containers, cans, and shipping tubs for butter, lard, etc. No. 158,882; Sept. 19.

Anthony Nutype Company Inc., assignor, by mesne assignments, to L. R. Meekins, Baltimore, Md. Type cleanser. No. 158,883; Sept. 19.

Apparel Products Co. Inc., New York, N. Y. Ladies', men's, and boys' coats and suits, women's dresses, men's trousers and shirts. No. 158,884; Sept. 19.

Armstrong Cork Company, Pittsburgh, Pa. Cork tile or tile containing cork or wood pulp as an ingredient thereof. No. 159,162; Sept. 19.

Armstrong Cork Company, Pittsburgh, Pa. Rubber heels. No. 159,163; Sept. 19.

Arrow Knitting Company, The. (See Cohen, Jacob H.)

Associated Editors, Chicago, Ill. Section of a daily, weekly, or monthly periodical devoted to games. No. 158,885; Sept. 19.

A/S United Sardine Factories, Bergen, Norway. Canned foods of smoked or salted fish or herring. No. 159,135; Sept. 19.

Atlantic Stamping Company, Rochester, N. Y. Metal (galvanized iron or tin) pails, coal hods, sprinkling pots, buckets, cans, and radiator fillers, etc. No. 158,886; Sept. 19.

Bacheller, Melville C., Grand Forks, N. Dak. Benches, other than work benches. No. 158,887; Sept. 19.

Barker Bros. Inc., Los Angeles, Calif. Reed furniture. No. 159,164; Sept. 19.

Barshal Company, The, Cleveland, Ohio. Waste receptacles. No. 158,889; Sept. 19.

Bartola Musical Instrument Co., Oshkosh, Wis. Organs. No. 159,165; Sept. 19.

Batcheller, George C., & Co., New York, N. Y. Corsets. No. 158,890; Sept. 19.

Banner Silk Knitting Mills, Inc., The, New York, N. Y. Silk knitted cloth. No. 158,888; Sept. 19.

Beatty Coal Co., Kansas City, Mo. Coal. No. 159,166; Sept. 19.

Bell Cap Company, The, Philadelphia, Pa. Hats and caps. No. 158,891; Sept. 19.

Bender, Matthew, & Company, Incorporated, Albany and New York, N. Y. Printed books. No. 158,892; Sept. 19.

Berman, Charles D., doing business as C. D. Berman Chemical Co., Wheeling, W. Va. Rat poison. No. 158,893; Sept. 19.

Berman, C. D., Chemical Co. (See Berman, Charles D.)

Berry-Beall Dry Goods Company, Fort Smith, Ark. Men's overalls and work shirts. No. 158,894; Sept. 19.

Bestex Hosiery Co., Inc., New York, N. Y. Hosiery. No. 158,895; Sept. 19.

Billstein-Federman Co., Cleveland, Ohio. Certain notions. No. 158,896; Sept. 19.

Biltwell Glove Company, Toledo, Ohio. Work shirts, mittens, leather, and fabric gloves. No. 159,167; Sept. 19.

Black, Samuel L., doing business as Green Label Stove Polish Co., Boston, Mass. Stove polish. No. 158,897; Sept. 19.

Blakely Milling Co., Atlanta, Ga. Corn meal. No. 158,898; Sept. 19.

Blaustein, Louis, trading as American Oil Co., Baltimore, Md. Oil and greases. No. 159,168; Sept. 19.

Blechman, S., & Sons, Inc., New York, N. Y. Children's pants made of leather. No. 159,169; Sept. 19.

Bob & Baskind, New York, N. Y. Men's shirts and boys' outer shirts and blouses. No. 158,899; Sept. 19.

Bonwit, John, Skirt Co., Inc., New York, N. Y. Ladies' and misses' outer skirts. No. 158,900; Sept. 19.

Borden Company, The, New York, N. Y. Evaporated milk. No. 158,901; Sept. 19.

Boss Manufacturing Company, Kewanee, Ill., and Brooklyn, N. Y. Fabric gloves and mittens. Nos. 158,902–3; Sept. 19.

Brewster Publications, Inc., Brooklyn, N. Y. Monthly publication. No. 158,904; Sept. 19.

Brewster Sons Company, Newark, N. J. Chocolate, cocoa, and candies. No. 158,905; Sept. 19.

Brooks, Elmer A., doing business as The Brooks Piano Company, Minneapolis, Minn. Upright pianos, grand, player, and reproducing pianos. No. 159,170; Sept. 19.

Brooks Piano Company, The. (See Brooks, Elmer A.)

Brown, R. J., Petroleum Company, St. Louis, Mo. Naphtha and lubricating oils and greases. No. 158,906; Sept. 19.

Brownscombe, Victor H., doing business as Bankers Service Company of Pennsylvania, Pittsburgh, Pa. Annual publication. No. 158,907; Sept. 19.

Bryant, Lane. (See Leopold, Louis A.)

Burton-Dixie Corporation, Chicago, Ill. Mattresses, cushions, pads, beds, etc. No. 158,908; Sept. 19.

Butterick Publishing Company, The, New York, N. Y. Monthly periodical. No. 158,909; Sept. 19.

Buzza Company, The, Minneapolis, Minn. Monthly publication. No. 158,910; Sept. 19.

B. V. D. Company, The, New York, N. Y. Underwear. No. 159,171; Sept. 19.

Cadillac Oil Company, Inc., New York, N. Y. Lubricating oils and greases. No. 159,172; Sept. 19.

Cafco Chemical Company, Inc., The, Pittsburgh, Pa. Soaps and soap powders. No. 159,911; Sept. 19.

California Cotton Oil Company, Los Angeles, Calif. Cottonseed meal for use as a fertilizer. No. 158,912; Sept. 19.

Calton Manufacturing Company, Spartanburg, S. C. Hosiery. No. 158,913; Sept. 19.

Cane, Mark P., Los Angeles, Calif. Certain named paints, varnishes, and shellacs. No. 158,914; Sept. 19.

Carson Pirie Scott & Co., Chicago, Ill. Men's woven athletic underwear. No. 159,173; Sept. 19.

Carter Dry Goods Co., Louisville, Ky. Sheeting, sheets, and pillowcases. No. 158,915; Sept. 19.

Carter, J. W., & Co., Nashville, Tenn. Boots and shoes made wholly or in part of leather. No. 159,174; Sept. 19.

Chlorente Company, The, Chicago, Ill. Toilet powder. No. 158,916; Sept. 19.

Citrus Products Co., Chicago, Ill. Beverages sold as soft drinks and syrups and concentrates for making same. No. 158,917; Sept. 19.

Clark Bros. Mfg. Co., Camden, N. J., and Philadelphia, Pa. Rope, rovings, cords, and twines made from vegetable and animal fibers. No. 158,918; Sept. 19.

Clayburgh Brothers, San Francisco, Calif. Tubular knit fabric made of artificial silk. No. 158,919; Sept. 19.

Cleveland Fruit Juice Company, The, Cleveland, Ohio. Fruit syrups for the preparation of soft drinks and beverages. No. 158,920; Sept. 19.

Clinton Chemical Company, Irvington, N. J. Gasoline intensifier. No. 158,921; Sept. 19.

Cochran, John P., Co., The, Cleveland, Ohio. Flat oil paint. No. 158,922; Sept. 19.

Colgate & Co., Jersey City, N. J., and New York, N. Y. Perfumes, perfumed powders, and toilet waters. No. 158,923; Sept. 19.

Cohen, Jacob H., doing business as The Arrow Knitting Company, New York, N. Y. Men's hosiery made of cotton, silk, and wool. No. 159,176; Sept. 19.

Condé, Frederick, New York, N. Y. Knitted underwear, shirts, drawers, union suits, and bloomers for men and women. No. 159,177; Sept. 19.

Clark Car Company of Pittsburgh and Johnstown, Pa. Dump cart. No. 159,175; Sept. 19.

Climax Polish Company, The. (See Ziegler, Gustav F.)

Craddock Terry Company, Lynchburg, Va. Women's leather shoes. No. 158,924; Sept. 19.

Crandall, Bruce V., Chicago, Ill. Magazine published monthly. No. 158,925; Sept. 19.

Creamery Package Mfg. Company, The, Chicago, Ill. Egg-case fillers. No. 158,926; Sept. 19.

Crosbie, James. (See Crosbie, Matthew.)

Crosbie, Matthew, doing business as James Crosbie & Son, New York, N. Y. Linen and cotton goods. No. 158,927; Sept. 19.

Daisy Whitehead Knitting Co., New York, N. Y. Hosiery. No. 158,928; Sept. 19.

Darnellle, Benjamin F., doing business as Le Pinx Laboratories, Springfield, Ill. Skin-cleansing and toilet creams, toilet powders, shampoos, etc. No. 158,929; Sept. 19.

Day, James B., & Co., Chicago, Ill. Paint enamels, prepared shellacs, varnishes, engine enamels, etc. No. 158,930; Sept. 19.

Day, Son & Hewitt, Limited, London, England. Blood purifiers, tonics, and conditioners for horses, cows, sheep, etc. No. 158,931; Sept. 19.

De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, hook and eye tape, and safety pins. No. 158,932; Sept. 19.

Delta Tours. (See James, Otho F.)

Dewsbury, John, & Son, Limited, Walsall, England. Harness hardware. No. 158,933; Sept. 19.

Dexter Manufacturing Co., Boston, Mass. Hand bags. No. 158,934; Sept. 19.

Diederich, Marcellus, doing business as Standard Products Company, Lorain, Ohio. Insecticides. No. 158,935; Sept. 19.

Dilator Syringe Corporation, New York, N. Y. Douche syringes. No. 159,178; Sept. 19.
Di Salvo, G., & A. Patera, Brooklyn, N. Y. Canned fruits and vegetables. No. 158,936; Sept. 19.
Divir, N. (See Divir, Neil.)
Divir, Neil, doing business as N. Divir, New York, N. Y. Periodical publications. No. 158,937; Sept. 19.
Doble, William H., Norfolk Downs, Mass. Shipping cases. Nos. 158,938–9; Sept. 19.
Dorros Bros. Incorporated, New York, N. Y. Artificial wreaths and bouquets and floral ornamental trimmings. No. 159,179; Sept. 19.
Duplan Silk Corporation, New York, N. Y. Broad silk piece goods. No. 158,940; Sept. 19.
Dusco Co., The, Buffalo, N. Y. Salves containing camphor ingredients. No. 158,941; Sept. 19.
Eavenson, J., & Sons, Incorporated, Philadelphia, Pa., and Camden, N. J. Toilet soaps. No. 158,942; Sept. 19.
Elstein, Joseph, & Sons, New York, N. Y. Men's topcoats. No. 158,943; Sept. 19.
Esmond Mills, The, New York, N. Y. Certain textile fabrics. No. 158,944; Sept. 19.
Ever Ready Garment Bag Co., The, New York, N. Y. Moth and dust proof garment bags. No. 158,945; Sept. 19.
Fain, Irving, Brooklyn, N. Y. Certain articles of clothing. No. 159,180; Sept. 19.
Fair, The, Chicago, Ill. Cigars. No. 158,946; Sept. 19.
Farmers Terminal Packing Company, Newport, St. Paul, and Minneapolis, Minn. Cured meats, sausage, and lard. No. 159,181; Sept. 19.
Feeler, William H., doing business as National Laboratories, Monrovia, Calif. Liquid for polishing automobiles and furniture. No. 158,947; Sept. 19.
Feldman & Weinman, Baltimore, Md. Work shirts. No. 158,948; Sept. 19.
Feldstein, Abraham D., New York, N. Y. Men's caps. No. 159,182; Sept. 19.
Ferguson, C. W., Collar Co., Troy, N. Y. Men's collars. No. 159,183; Sept. 19.
Ferrera, Giuseppe, Corona, N. Y. Liniment for rheumatism. No. 158,949; Sept. 19.
Filene's, Wm., Sons Company, Boston, Mass. Leather boots and shoes. No. 158,950; Sept. 19.
Fimmel, Elisabeth, North Branch, N. J. Salve or ointment. No. 158,951; Sept. 19.
Finger Cahn Co. Inc., New York, N. Y. Certain articles of clothing. No. 158,952; Sept. 19.
Fitzgerald Mfg. Company, The, Torrington, Conn. Electric massage vibrators, etc. No. 158,953; Sept. 19.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 158,954–6; Sept. 19.
Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Deep-well pumps. No. 159,184; Sept. 19.
Freedman, Louis A., New York, N. Y. Combined bell and electric-lamp socket used as a signal device. No. 159,185; Sept. 19.
G. & H. Products Co., Inc., Buffalo, N. Y. Malt. No. 158,958; Sept. 19.
Gadomski Bros., Jersey City, N. J. Healing compound for sores and wounds. No. 158,959; Sept. 19.
Garrity, L. M., & Co. Inc., Boston, Mass. Hair wavers, curlers, and crimpers. No. 158,960; Sept. 19.
General Electric Company, Schenectady, N. Y. Paints for glass or other surfaces. No. 158,961; Sept. 19.
George Matthew Adams Service, The, New York, N. Y. Series of cartoons. No. 158,962; Sept. 19.
Giant Grip Mfg. Co., Oshkosh, Wis. Horseshoes. No. 158,963; Sept. 19.
Goldberg, I., and Sons, Boston, Mass. Tennis shoes. No. 158,964; Sept. 19.
Goldenberg's, Washington, D. C. Fabric gloves. No. 159,186; Sept. 19.
Goldenberg's, Washington, D. C. Fabric gloves. No. 159,965; Sept. 19.
Gosselin, Etienne, Biddeford, Me. Salve for the treatment of sores, burns, boils, eczema, and the like. No. 158,966; Sept. 19.
Graf-Rosen Co., New York, N. Y. Men's hats and caps. No. 158,967; Sept. 19.
Grant, W. T., Company, New York, N. Y. Infant's hosiery. No. 158,968; Sept. 19.
Green Label Stove Polish Co. (See Black, Samuel L.)
Greene, William E., New York, N. Y. Paints, varnishes, and waterproofing compounds in the nature of paints. No. 159,187; Sept. 19.
Gregory & Read Company, Lynn, Mass. Women's boots and shoes. No. 158,969; Sept. 19.
Grenoble, Arthur G., Baltimore, Md. Serum for the treatment of cancer. No. 158,970; Sept. 19.
H & W Company, The, Newark, N. J. Corsets, corset waists, brassières, etc. No. 158,971; Sept. 19.
Hadley, Idale L., Hartford, Conn. Bed wardrobes and bedsteads. No. 158,972; Sept. 19.
Hamilton Manufacturing Company, The, Two Rivers, Wis. Printers' furniture. No. 158,973; Sept. 19.
Hannaford Company, The, Los Angeles, Calif. Women's house and street dresses. No. 158,974; Sept. 19.
Hately Brothers Company, Chicago, Ill. Hams, bacon, and lard. No. 158,975; Sept. 19.
Hauser & Well, New York, N. Y. Toilet cases and rolls, week-end and overnight bags, etc. No. 158,976; Sept. 19.
Hawkins Mortgage Co., Portland, Ind. Monthly publication. No. 158,977; Sept. 19.
Hayes Shock Absorber Co., Minneapolis, Minn. Shock absorbers (automobile). No. 159,188; Sept. 19.
Heerling, William, New York, N. Y. Chairs and tables for general use. No. 158,978; Sept. 19.
Heppes-Nelson Roofing Company, The, Chicago, Ill. Weather and water proof coatings in liquid and paintlike form. No. 158,979; Sept. 19.
Herzog & Kramer, New York, N. Y. Bath robes. No. 158,981; Sept. 19.
Hess and Hopkins Leather Company, The, Rockford, Ill. Harness, saddles, and horse collars. No. 159,189; Sept. 19.
Hoch, Benjamin L., Brooklyn, N. Y. Antiseptic toothbrush containers of cabinet form. No. 158,982; Sept. 19.
Hoey, John, & Co., San Francisco, Calif. Mattresses. No. 158,983; Sept. 19.
Hoosier Desk Company, Jasper, Ind. Desks and office tables. No. 158,984; Sept. 19.
Hornsey, John W., Jamaica Plain, Boston, Mass. Hair restorers. No. 158,985; Sept. 19.
Hoy, F. P., Incorporated, New York, N. Y. Corsets. Nos. 158,987–8; Sept. 19.
Hudson Bay Fur Company. (See Silbert, Harry.)
Illinois Watch Case Company, Elgin, Ill. Watch movements. No. 159,190; Sept. 19.
Improved Reversible Glove Co., Inc., New York, N. Y. Gloves. No. 158,989; Sept. 19.
Indiana Indestructible Paint Co., Chicago, Ill. Combined stain and floor varnish. No. 159,193; Sept. 19.
Injun Washing Powder Co. (See Kihn, August E.)
International Corn Products Corporation, Detroit, Mich. Candy, consisting of pop corn, fruit, and nuts. No. 159,191; Sept. 19.
Interpreter Publishing Corporation, New York, N. Y. Weekly periodical. No. 158,991; Sept. 19.
Jackie-Klothes, Inc., Brooklyn, N. Y. Boys' and girls' middy suits. No. 159,192; Sept. 19.
Jacobson, Albert E., New York, N. Y. Photographic prints. No. 158,992; Sept. 19.
James, Otho F., doing business as Delta Tours, Washington, D. C. Travel pamphlets, maps, and guidebooks. No. 158,993; Sept. 19.
Jenner, H. S., Rochester and Honeoye Falls, N. Y. Mineral-spring water. No. 158,994; Sept. 19.
Jennings & Company, Inc., Boston, Mass. Dyestuffs. No. 158,995; Sept. 19.
John, Robert, New York, N. Y. Prints, pictures, and illustrations. No. 158,996; Sept. 19.
Kahlenberg, Louis, Two Rivers, Wis. Suture material used for sewing up wounds. No. 158,998; Sept. 19.
Kaplan, Scheuerle & Doyne, New York, N. Y. Hats and caps. No. 158,999; Sept. 19.
Kaufman, Chas., & Bros., Chicago, Ill. Men's suits. No. 159,000; Sept. 19.
Kendall Products Corporation, New York, N. Y. Soap powders. No. 159,001; Sept. 19.
Kenilworth Manufacturing Co. Inc., New York, N. Y. Blouses, bloomers, skirts, knickers, underbloomers, overalls, etc., for females. No. 159,002; Sept. 19.
Kennedy, Robert S., New York, N. Y. Trade journal published quarterly. No. 159,003; Sept. 19.
Keystone Varnish Company, Brooklyn, N. Y. Enamel paints and varnish. No. 159,004; Sept. 19.
Khoury, Abraham, Manchester, N. H. Medicine for menorrhagia, metrorrhagia, backache, and menstrual fever. No. 159,005; Sept. 19.
Kihn, August E., doing business as Injun Washing Powder Co., Philadelphia, Pa. Washing powder. No. 159,006; Sept. 19.
Knickerbocker Chocolate Co., New York, N. Y. Prepared edible chocolate. No. 159,194; Sept. 19.
Knight, Maurice A., East Akron, Ohio. Acid-proof chemical stoneware. No. 159,195; Sept. 19.
Knipe Bros., Inc., Haverhill, Mass. Leather boots and shoes. No. 159,007; Sept. 19.
Koenig, Harry D., New York, N. Y. Manicuring implements and accessories. No. 159,008; Sept. 19.
Kohnstamm, H., & Co., Inc., New York, N. Y. Launderer's materials. No. 159,196; Sept. 19.
Komfy Products Company, Chicago, Ill. High chairs for children. No. 159,009; Sept. 19.
Krag, Leona A., Chicago, Ill. Nom de plume on newspaper and magazine articles. No. 159,010; Sept. 19.
Labbee, Mitchell G., Chicago, Ill. Medicated dental toothpicks. No. 159,011; Sept. 19.
La Crosse Rubber Mills Co., La Crosse, Wis. Rubber boots and shoes. No. 159,012; Sept. 19.
La Grace Dress Panel Manufacturing Co., Penns Grove, N. J. Dress panels. No. 159,013; Sept. 19.
Largman, Gray Company, Philadelphia, Pa. Silk hose. No. 159,014; Sept. 19.
Lay & Way Co., The, New York, N. Y. Underwaists, body waists, corset waists, corsets, etc. No. 159,015; Sept. 19.
Lees, James, and Sons Company, Bridgeport, Pa. Certain articles of clothing. No. 159,016; Sept. 19.
Lehigh Silk Hosiery Mills, Inc., New York, N. Y. Hosiery. Nos. 159,197–8; Sept. 19.
Leopold, Louis A., trading as Lane Bryant, New York, N. Y. Shoes of leather, rubber, fabric, etc. No. 159,017; Sept. 19.
Le Pinx Laboratories. (See Darneille, Benjamin F.)

Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. Nos. 159,199–201; Sept. 19.
Levan, Harry D., Lebanon, Pa. Fertilizers. No. 159,018; Sept. 19.
Levy & Marcus, New York, N. Y. Neckties and scarfs. No. 159,019; Sept. 19.
Little Duchess Dress Co. Inc., The, assignors to Rotary Frocks, Inc., New York, N. Y. Women's, misses', children's, and infants' clothing. No. 159,020; Sept. 19.
Logar, Bertha, New York, N. Y. Hair restorer for restoring hair and removing dandruff. No. 159,021; Sept. 19.
Lonz Sons, Philadelphia, Pa. Household, office, and porch furniture. No. 159,022; Sept. 19.
Lowenstein, M. W., & Co. Inc., New York, N. Y. Neckwear. No. 159,023; Sept. 19.
Lunn & Sweet Company, Auburn, Me. Leather shoes. No. 159,024; Sept. 19.
McCreery, James, & Company, New York, N. Y. Floor brushes and brooms, whisk brooms, toothbrushes, hairbrushes, etc. No. 159,025; Sept. 19.
McCreery, James, & Company, New York, N. Y. Nail files and buffers, manicuring scissors, cuticle knives. No. 159,026; Sept. 19.
McCreery, James, & Company, New York, N. Y. Certain notions. No. 159,027; Sept. 19.
McDougall-Butler Co., Inc., Buffalo, N. Y. Certain paints, colors, stains, etc. No. 159,028; Sept. 19.
McEvoy, Joseph P., Chicago, Ill. Series of separate illustrated stories or playlets in verse and prose. No. 159,029; Sept. 19.
Macy, R. H., & Co., Inc., New York, N. Y. Sheets and pillowcases. No. 159,030; Sept. 19.
Majestic Manufacturing Company, St. Louis, Mo. Certain store furniture. No. 159,031; Sept. 19.
Malimson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Nos. 159,032–3; Sept. 19.
Marshall Field & Company, Chicago, Ill. Toilet soap. No. 159,202; Sept. 19.
Martin's, John, House, Inc., New York, N. Y. Magazines published monthly. No. 158,986; Sept. 19.
Matchless Metal Polish Co., The, Chicago, Ill., and Glen Ridge, N. J. Buffing and polishing compositions. No. 159,034; Sept. 19.
Meekins, Lawrence R. (See Anthony Nutype Company, assignor.)
Menthol Products Company, East Orange, N. J. Ointment for certain purposes. No. 159,035; Sept. 19.
Meyer, Adolph, Chicago, Ill. Ladies' and children's dresses and cloaks. No. 159,203; Sept. 19.
Meyer & Strompen, San Francisco, Calif. Hair nets. No. 159,036; Sept. 19.
Mid-West Box Company, Anderson, Ind., and Chicago, Ill. Garment-storage receptacles and wrappers for bottles and lamp chimneys. No. 159,204; Sept. 19.
Migel, J. A., Inc., New York, N. Y. Certain articles of clothing. No. 159,037; Sept. 19.
Milgrin, H., & Bros. Inc., New York, N. Y. Gowns, frocks, tailored suits, and furs for women. No. 159,205; Sept. 19.
Miller, Joseph B., Indianapolis, Ind. Fire-extinguishing composition. No. 159,038; Sept. 19.
Minot, Hooper & Co., New York, N. Y. Cotton piece goods. No. 159,039; Sept. 19.
Monger, Roy S., New York, N. Y. Monthly periodical. No. 159,040; Sept. 19.
Moore, Benjamin & Co., Jersey City, N. J., and Brooklyn, N. Y. Mixed paints, stains, paint enamels, etc. No. 159,041; Sept. 19.
Moore, Walton N., Dry Goods Co., San Francisco, Calif. Knitted hosiery and underwear. No. 159,044; Sept. 19.
Morgan Company, The, Vincennes, Ind., and Peoria, Ill. Varnishes, finishes, lacquers, etc. Nos. 159,042–3; Sept. 19.
National Exchange Club, The, Toledo, Ohio. Monthly publication. No. 159,045; Sept. 19.
National Laboratories. (See Feeler, William H.)
National Mattress Co. Inc., Lynchburg, Va. Iron beds, bed springs, cots, mattresses, pillows, etc. No. 159,046; Sept. 19.
Nettleton, A. E., Company, Syracuse, N. Y. Shoes made of leather. No. 159,206; Sept. 19.
Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 159,047; Sept. 19.
New England Confectionery Company, Boston, Mass. Candy. No. 159,048; Sept. 19.
New York Tribune Inc., New York, N. Y. Newspaper column. No. 159,040; Sept. 19.
Nice, Eugene E., Philadelphia, Pa. Paints, varnishes, paint enamels, and driers. No. 159,050; Sept. 19.
Nichols & Stone Company, Gardner, Mass. Household, office, and factory chairs. No. 159,051; Sept. 19.
Northwest Fruit Products Co., Salem, Oreg. Loganberry juice. No. 159,052; Sept. 19.
Nourse Company, Inc., The, New York, N. Y. Books, booklets, pamphlets, catalogues, and similar publications. No. 159,053; Sept. 19.
Nunner and Ashton Company, The, Cincinnati, Ohio. Certain household and office furniture. No. 159,054; Sept. 19.
Odiorne, Geo. B., Philadelphia, Pa. Solution for cleaning type. No. 159,207; Sept. 19.
Ohio Chemical & Manufacturing Co., The, Cleveland, Ohio. Nitrous oxid, oxygen. No. 159,208; Sept. 19.
Ohio Rubber Co., The, Cleveland, Ohio. Felt slippers. Nos. 159,055–6; Sept. 19.
1 in 5 Manufacturing Co., Detroit, Mich. Liquid preparation for energizing gasoline. No. 158,990; Sept. 19.
Orbea Hermanos, Eibar, Spain. Firearms. No. 158,980; Sept. 19.
Oshkosh Trunk Company, The, Oshkosh, Wis. Wardrobe trunks. No. 159,209; Sept. 19.
Owl Drug Company, The, San Francisco, Calif. Cleaning fluid for shoes and leather goods. No. 159,057; Sept. 19.
Parfumerie Roger & Gallet, Paris, France. Soaps, soap pastes, and soap powders. No. 159,058; Sept. 19.
Parlstyle Novelty Co. Inc., New York, N. Y. Hair nets. No. 159,059; Sept. 19.
Passaic Print Works, Passaic, N. J. Cotton piece goods. Nos. 159,210; Sept. 19.
Patton, Daniel T., and Company, Grand Rapids, Mich. Dress shirts. No. 159,060; Sept. 19.
Patton, Daniel T., and Company, Grand Rapids, Mich. Work shirts. No. 159,061; Sept. 19.
Pettis, T. A., Company, Providence, R. I. Neckties and scarfs. No. 159,211; Sept. 19.
Poole, John W., doing business as Victory Bottling Co., Terra Alta, W. Va. Beverages sold as soft drinks and sirup for making same. No. 159,062; Sept. 19.
Porteous, Percy A., Cleveland, Ohio. Compound for patching tubes and rubber goods. No. 159,212; Sept. 19.
Porter Chemical Company, The, Hagerstown, Md. Chemicals. No. 159,063; Sept. 19.
Prophylactic Tooth Powder, Inc., New York, N. Y. Tooth powder. No. 159,064; Sept. 19.
Py-Re-Gon Company, Chicago, Ill. Medicinal compound for the treatment of pyorrhea. No. 159,065; Sept. 19.
Rambo & Regar, Incorporated, Norristown, Pa. Hosiery. No. 159,066; Sept. 19.
Reco-Rap Company, The, St. Louis, Mo. Transportation packages for talking-machine records. No. 159,067; Sept. 19.
Rees, Fred, doing business as The Remo Manufacturing Co., Meriden, Conn. Safety pins. No. 159,068; Sept. 19.
Remo Manufacturing Co., The. (See Rees, Fred.)
Rhodes-Marden Corporation, The, New York, N. Y. Booklets and small text cards issued from time to time. No. 159,069; Sept. 19.
Rhymer, Hiram B., Elmira, N. Y. Washing powder. No. 159,070; Sept. 19.
Rice Stix Dry Goods Company, St. Louis, Mo. Hosiery. No. 159,071; Sept. 19.
Rieser Company, The, New York, N. Y. Soaps. No. 159,072; Sept. 19.
Rite Form Corset Co., Inc., The, New York, N. Y. Corsets. No. 159,073; Sept. 19.
Rivalac Paint Company Inc., New York, N. Y. Ready-mixed coal-tar paints and coal-tar thinners, varnishers. No. 159,074; Sept. 19.
Robeson, William A., doing business as Victory Coal Save Company, Saratoga Springs, N. Y. Composition for the treatment of fuel coal. No. 159,075; Sept. 19.
Rogers Trunk Corporation, Petersburg, Va. Dress and wardrobe trunks. No. 159,080; Sept. 19.
Rogers, W. H., Co., Chicago, Ill. Ladies' ready-to-wear clothing, petticoats, skirts, and bloomers. No. 159,076; Sept. 19.
Rosenau Bros. Inc., Philadelphia, Pa. Children's dresses, rompers, creepers, and suits. No. 159,077; Sept. 9.
Rosslyn Packing Co., The, Rosslyn, Va. Hams, bacon, lard, frankfurters, etc. No. 159,213; Sept. 19.
Rotary Frocks, Inc. (See Little Duchess Dress Co., assignor.)
Royal Easy Chair Corporation, Sturgis, Mich. Davenports. No. 159,078; Sept. 19.
Royal Worcester Corset Company, Worcester, Mass. Flap attachments for corsets. No. 159,214; Sept. 19.
Rutland Fire Clay Co., Rutland, Vt. Crack filler, stove pipe enamel, asphalt roof paint, etc. No. 159,079; Sept. 19.
Salomon Stern Ltd., of America, New York, N. Y. Hosiery. No. 159,215; Sept. 19.
Samuels, Albert S., Co., The, San Francisco, Calif. Finger rings and precious-metal ware. Nos. 159,081–2; Sept. 19.
Santalucia, Samuel, Waterbury, Conn. Rubber heels. No. 159,083; Sept. 19.
Santerba Perfumery Manufacturer Inc., New York, N. Y. Certain medicinal preparation. No. 159,084; Sept. 19.
Sargent Shoe Company, Lynn, Mass. Shoes. No. 159,216; Sept. 19.
Scheinzeit Goldman Co., New York, N. Y. Underwear for women, of knit and woven fabric. No. 159,085; Sept. 19.
Schieren, Chas. A., Company, New York, N. Y. Leather belting. No. 159,218; Sept. 19.
Scherer, Burnell & Scherer, Inc., New York, N. Y. Laundry blue or bluing. No. 159,086; Sept. 19.
Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. Nos. 159,087–9; Sept. 19.
Schumann, Reinhold, Inc., Newark, N. J. Certain surgical appliances. No. 159,090; Sept. 19.
Schwab, Leopold B., New York, N. Y. Hosiery and knit underwear for men. No. 159,091; Sept. 19.
Schwarz & Son, Newark, N. J. Candy. No. 159,092; Sept. 19.

Scribner's, Charles, Sons, New York, N. Y. Monthly publications. No. 159,093; Sept. 19.
Seattle Cap Manufacturing Co., Seattle, Wash. Caps and hats for men, women, and children. No. 159,094; Sept. 19.
Seneca Knitting Company. (See Smith, Caleb.)
Seven Oils Co., Inc., The, Boston, Mass. Soaps. No. 159,095; Sept. 19.
Sexton, John, and Company, Chicago, Ill. Paints, ready-mixed paint enamels, varnishes, wood filler, etc. No. 159,096; Sept. 19.
Shasteen, Charles, Toledo, Ohio. Potato chips. No. 159,097; Sept. 19.
Sherwin-Spinner Company, New York, N. Y. Cuffs and shirts. No. 159,098; Sept. 19.
Sherwin-Williams Company, The, Cleveland, Ohio. Certain paints, paint enamels, primers, and fillers. Nos. 159,219–22; Sept. 19.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints (ready mixed and paste) drying with a semigloss finish No. 159,223; Sept. 19.
Shifman Brothers, Newark, N. J. Mattresses. No. 159,099; Sept. 19.
Shoe and Leather Reporter Co., Boston, Mass. Periodical published monthly. No. 159,100; Sept. 19.
Short & Son Co., Reading, Pa. Chewing gum. No. 159,101; Sept. 19.
Silbert, Harry, doing business as Hudson Bay Fur Company, New York, N. Y. Prepared furs. No. 159,102; Sept. 19.
Simon, Franklin, & Co. Inc., New York, N. Y. Certain articles of clothing. No. 158,957; Sept. 19.
Simon, Franklin, & Co. Inc., New York, N. Y. Certain articles of clothing. No. 159,103; Sept. 19.
Smith, Caleb, doing business as Seneca Knitting Company, Seneca Falls, N. Y. Hosiery. No. 159,104; Sept. 19.
Smith Mfg. Co., Utica, N. Y. Spraying solution. No. 159,224; Sept. 19.
Societe des Plaques et Poudres à Souder J. Lafitte, Paris, France. Welding plates and powders, brazing and tempering powders. No. 159,105; Sept. 19.
Sonny Blouse Co. Inc., The, New York, N. Y. Certain articles of clothing. No. 159,106; Sept. 19.
Spokesman Publishing Company, The, Cincinnati, Ohio. Journal published monthly. No. 159,107; Sept. 19.
Stahl, Francis X., Cincinnati, Ohio. Phonograph cabinets. No. 159,108; Sept. 19.
Standard Felt Company, West Alhambra, Calif. Shoes, boots, and slippers made of felt. No. 159,225; Sept. 19.
Standard Oil Company, San Francisco, Calif. Certain heating and illuminating oils. No. 159,109; Sept. 19.
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Greases, oils, etc. No. 159,110; Sept. 19.
Standard Products Company. (See Diederich, Marcellus.)
Standard School Equipment Co., Louisville, Ky. Certain school furniture and equipment. No. 159,111; Sept. 19.
Stanislawski, Joseph, Hammond, Ind. Healing oil for rheumatism, swelling, boils, etc. No. 159,112; Sept. 19.
Stanley & Aylward, Limited, Toronto, Ontario, Canada. Certain articles plated with precious metal. No. 159,226; Sept. 19.
Starbird, John H., Seattle, Wash. Beverages sold as soft drinks and syrups therefor. No. 159,217; Sept. 19.
Star Company, New York, N. Y. Newspaper section. Nos. 159,113–14; Sept. 19.
Stearns & Foster Company, The, Lockland, Ohio. Mattresses. Nos. 159,115–16; Sept. 19.
Stein, A., & Company, Chicago, Ill. Elastic webbing and shirred elastic ribbon. No. 159,120; Sept. 19.
Stein, A., & Company, Chicago, Ill. Sanitary aprons and belts. No. 159,121; Sept. 19.
Steiner & Son, Inc., Asbury Park, N. J. Sleeping garments. No. 159,227; Sept. 19.
Steinberger Bros. Lobl Co., New York, N. Y. Leather and fabric gloves. Nos. 159,122–3; Sept. 19.
Stewart & Holmes Drug Co., Seattle, Wash. Combs. No. 159,124; Sept. 19.
Straus Mfg. Co., Erie, Pa. Knee pants. No. 159,229; Sept. 19.
Straus Mfg. Co., Erie, Pa. Overalls. No. 159,228; Sept. 19.
Street & Smith Corporation, New York, N. Y. Magazines issued monthly. No. 159,125; Sept. 19.
Street & Smith Corporation, New York, N. Y. Magazines issued weekly. No. 159,126; Sept. 19.
Success Heater and Manufacturing Company, Des Moines, Iowa. Warm-air heaters and furnaces. No. 159,230–1; Sept. 19.
Suffern, Robert A., New York, N. Y. Cotton piece goods. No. 159,127; Sept. 19.
Symonds, Frank P., Salem, Mass. Insecticides. No. 159,128; Sept. 19.
Taylor Bramley Company, The, Chicopee, Mass. Infants' and children's clothing. No. 159,232; Sept. 19.
Texas Star Flour Mills, Galveston, Tex. Wheat flour. No. 159,129; Sept. 19.
Town Talk Manufacturing Co., Louisville, Ky. Men's and boys' caps. No. 159,130; Sept. 19.
Trinity Chemical Corporation, White Plains, N. Y. Washing compound for general household, kitchen, and laundry purposes. No. 159,131; Sept. 19.
Trinity Chemical Corporation, White Plains, N. Y. Cleanser for industrial, household, and all general cleaning. No. 159,132; Sept. 19.
Tuttle, W. E., Company, The, Rochester, N. Y. Leather shoes, particularly men's shoes. No. 159,133; Sept. 19.
Union Bed and Spring Company, Chicago, Ill. Bed springs. No. 159,134; Sept. 19.
Utica Bedding Factory, Inc., Utica, N. Y. Mattresses. Nos. 159,136–7; Sept. 19.
Utica-Union Corporation, Utica, N. Y. Certain articles of clothing. No. 159,233; Sept. 19.
Valcour, Frank, Cutbank and Forsyth, Mont. Liquid cleaning compound. No. 159,138; Sept. 19.
Van Buskirk, Herbert C., doing business as The Van Co., Saugerties, N. Y. Indigestion tablets. No. 159,139; Sept. 19.
Van Co., The. (See Van Buskirk, Herbert C.)
Veivotone Chemical Co., The, Jacksonville, Fla. Preparation to promote the growth of the hair and for the treatment of dandruff, etc. No. 159,140; Sept. 19.
Venus Arch-Support Company, Chicago, Ill. Dressings and dry cleaners used on fabrics, leathers, etc. No. 159,141; Sept. 19.
Victory Bottling Co. (See Poole, John W.)
Victory Coal Save Company. (See Robeson, William A.)
Victoria Undergarment Co. Inc., New York, N. Y. Ladies' muslin and silk underwear. No. 159,142; Sept. 19.
Vienna Medical Company, Detroit, Mich. Cough lozenges and sirup and compound for treatment of coughs. No. 159,143; Sept. 19.
Vigo-American Clay Company, Terre Haute, Ind. Hollow building tile. No. 159,234; Sept. 19.
Viscardi, Henry, New York, N. Y. Shaving cream. No. 159,235; Sept. 19.
Vivandou, V., Inc., New York, N. Y. Preparation for producing a glossy effect upon the hair. No. 159,236; Sept. 19.
Wadsworth-Howland Company, Chicago, Ill. Nickel polish. No. 159,144; Sept. 19.
Waldes & Co., Inc., Long Island City, N. Y. Snap fasteners. No. 159,145; Sept. 19.
Wallace, Leon, & Sons, New York, N. Y. Men's and boys' caps. No. 159,237; Sept. 19.
Wallin Mfg. Co., St. Paul, Minn. Shoe-shining stools and cabinets. No. 159,146; Sept. 19.
Wampole, Henry S., Company, The, Baltimore, Md. Antiseptic solution. No. 159,147; Sept. 19.
Warschauer, Isidor, New York, N. Y. Ladies' hand bags. No. 159,148; Sept. 19.
Wear Well Brassière Co., New York, N. Y. Brassières. No. 159,238; Sept. 19.
Webb Publishing Company, St. Paul, Minn. Periodicals. No. 159,149; Sept. 19.
Webb Publishing Company, St. Paul, Minn. Monthly periodicals. No. 159,150; Sept. 19.
Weiss, Herman Co., The, Cincinnati, Ohio. Dresses for ladies and girls. No. 159,151; Sept. 19.
Welmayde Muslin Underwear Co., Yonkers, N. Y. Children's and misses' muslin underwear. No. 159,239; Sept. 19.
Wertheimer Bag Co., Birmingham, Ala. Burlap and cotton bags. No. 159,240; Sept. 19.
Western Bottle Manufacturing Company, Chicago, Ill. Certain surgical and medical supplies. No. 159,241; Sept. 19.
Westinghouse Union Battery Co., Swissvale, Pa. Periodicals issued bimonthly. No. 159,152; Sept. 19.
W. H. & F. Jordan, Jr. Mfg. Co., Philadelphia, Pa. Improved sanitary wax dressing. No. 158,997; Sept. 19.
White, L. Q., Shoe Co., Bridgewater, Mass. Rubber heels. No. 159,153; Sept. 19.
White Tar Company, The, New York, N. Y. Candles. No. 159,242; Sept. 19.
Whiting & Davis Company, Plainville, Mass. Metal mesh bags. No. 159,154; Sept. 19.
Whitman, Clarence, & Son, Inc., Katonah, and New York, N. Y. White and colored silk and cotton piece goods. No. 159,155; Sept. 19.
Wilson Process, Inc., New York, N. Y. Boots and shoes. No. 159,156; Sept. 19.
Wimelbacher & Rice, New York, N. Y. Fabric gloves. No. 159,243; Sept. 19.
Winchester Repeating Arms Co., New Haven, Conn. Certain fishing tackle. No. 159,157; Sept. 19.
Wollensak Optical Company, Rochester, N. Y. Monthly periodical. No. 159,158; Sept. 19.
Woolf, Jesse, & Co. Inc., New York, N. Y. Dresses. No. 159,159; Sept. 19.
Wright Manufacturing Company, Minneapolis, Minn. Pistons used for truck, tractor, automobile, and stationary engines. No. 159,244; Sept. 19.
Yale University Press, New York, N. Y. Series of volumes of epochal history of the United States. No. 159,160; Sept. 19.
Ziegler, Gustav E., trading as The Climax Polish Company, St. Louis, Mo. Liquid cleanser and polish for pianos, automobiles, etc. No. 159,161; Sept. 19.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Allen-Qualley Company, St. Paul, Minn. Candy. No. 160,688; Sept. 19.
Alpa Preserve Co., San Jose, Calif. Macaroni sauce and spaghetti. No. 160,177; Sept. 19.
American Bleached Goods Company, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Cotton cloths, fabrics, cloths dyed in the piece, and printed cloths. No. 166,161; Sept. 19.
American Zinc Sales Company, Boston, Mass. Lithophone. No. 159,335; Sept. 19.
Anti-Hydro Waterproofing Company, Newark, N. J. Liquid hardener for cement masonry. No. 150,051; Sept. 19.
Arcadia, The. (See Dilas, Harry.)
Automatic Siphon Filler Co. (See Gavaza, George V.)
Barber Asphalt Paving Company, The, Philadelphia, Pa. Waterproof roofing sheets and shingles. No. 163,378; Sept. 19.
Bartlett & Bickley. (See Jonas, Charles D.)
Becker, Edw. M., Co., The, Cleveland, Ohio. Candy. No. 157,751; Sept. 19.
Berdan Company, The, Toledo, Ohio. Comfits and candies. No. 160,459; Sept. 19.
Berndorfer Metallwarenfabrik Arthur Krupp A.-G., Berndorf, Austria. Sheet-metal bands and wire manufactured for electrotechnical purposes. No. 161,345; Sept. 19.
Booth, Wilfrid I., Elmira, N. Y. Candy. No. 159,403; Sept. 19.
Borsch, Jean L., Paris, France. Optical lenses and lens blanks used in correcting eyesight. Nos. 157,131–2; Sept. 19.
Borsch, Jean L., Paris, France. Optical lenses and lens blanks used in correcting eyesight. No. 157,549; Sept. 19.
Bradt, Charles C., assignor to U. S. Oil Works, Omaha, Nebr. Internal-combustion engine. No. 161,523; Sept. 19.
Branfman, Jacob, New York, N. Y. Meat products—viz, smoked beef, bologna, and salami. No. 157,207; Sept. 19.
Brannon, Mary, Company, Atlanta, Ga. Curative ointment for the treatment of utero-ovarian diseases. No. 162,664; Sept. 19.
Brine, James W., Company, The, Boston, Mass. Footballs, football bladders, inflaters, hip pads, etc. No. 165,175; Sept. 19.
California Peanut Company, Oakland, Calif. Peanut butter. No. 159,009; Sept. 19.
Cameron's Surgical Specialty Co. (See Cameron, Will J.)
Cameron, Will J., doing business as Cameron's Surgical Specialty Co., Chicago, Ill. Lamps for use by physicians and surgeons in making examinations, etc. No. 160,926; Sept. 19.
Carley, Leonard R., Watertown, Conn. Talcum, face powder, foot powder, cold cream, vanishing cream, etc. No. 160,580; Sept. 19.
Cartier, Inc., New York, N. Y. Opera glasses and lorgnettes. No. 163,127; Sept. 19.
Caudal, Anna C., Haverhill, Mass. Candies and chocolate. No. 160,925; Sept. 19.
Cecil Manufacturing Company, Camden, N. J. Candy. No. 147,797; Sept. 19.
Chalmers Chemical Company, Newark, N. J. Removers for paints and varnishes. No. 157,755; Sept. 19.
Chambers Home Made Candies, Chicago, Ill. Chocolate nut bars. No. 159,692; Sept. 19.
Chicago Ferrule & Nut Company, Chicago, Ill. Tobacco moistener. No. 163,778; Sept. 19.
Commercial Laboratories, Inc., Newark, N. Y. Face powders and creams, perfumes, rouges, etc. No. 162,802; Sept. 19.
Condé Perfumer, New York, N. Y. Face powders and creams, perfumes, rouges, etc. No. 162,801; Sept. 19.
Consolidated Companies, Inc., Plaquemine, Morgan City, St. Martinsville, New Roads, and White Castle, La. Canned goods, cottonseed oil, tomato catsup, etc. No. 145,994; Sept. 19.
Cook, John, & Sons, Inc., Chicago, Ill. Canned meats and vegetables, and canned combinations of meat and vegetables. No. 153,047; Sept. 19.
Cosmos Trading Company. (See Klemperer, Gustav.)
Criburi, R., & Sons, San Jose, Calif. Fresh grapes and vegetables. No. 154,861; Sept. 19.
De Maria & Sparacin, New York, N. Y. Files, razors, razor blades, pocketknives, scissors, kitchen knives, and blade grinders. No. 159,853; Sept. 19.
Dilas, Harry, doing business as The Arcadia, Bay City, Mich. Candy. No. 160,750; Sept. 19.
Dold, Jacob, Packing Co., Buffalo, N. Y. Dry salt pork products. No. 152,067; Sept. 19.
Dottie-May Co., Independence, Mo. Garments. No. 151,614; Sept. 19.
Doverspike, Anna J., Raymond, Wash. Croup and cough sirups. No. 160,120; Sept. 19.
Dreyfus Bros., Tulsa, Okla. Canned fruits, vegetables, and fish, and coffee. No. 161,116; Sept. 19.
Duncan Oil Company, The, Youngstown, Ohio. Motor oils and gasoline. No. 159,956; Sept. 19.
Du Pont, E. I., de Nemours & Company, Wilmington, Del. Intermediate for dyeing processes. No. 158,078; Sept. 19.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polishes acting as grease removers and cleaning materials, metal polish, etc. No. 150,440; Sept. 19.
Durante, Marie R., doing business as The Froglett Tablet Co., Utica, N. Y. Cough tablets. No. 158,565; Sept. 19.
Eckert Packing Company, Henderson, Ky. Ham. No. 140,933; Sept. 19.
Elmira Cotton Mills Co., Burlington, N. C. Dress ginghams in the piece. No. 166,438; Sept. 19.
Ephraim Sanitary Canning Company, Ephraim, Utah. Canned vegetables. No. 161,121; Sept. 19.
Everett Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 163,507; Sept. 19.
Farwell, John V., Company, Chicago, Ill. Handkerchiefs. No. 160,447; Sept. 19.
Fisher, John A., Dallas, Tex. Wrapping paper and tissue and crepe napkins, writing tablets. No. 163,148; Sept. 19.
Fisk, George F. (See Prophylacto Mfg. Co., assignor.)
Fisk, George F., jr., doing business as Prophylacto Mfg. Co., Chicago, Ill., assignor to George F. Fisk, doing business as Prophylacto Mfg. Co. Nasal spray compound. No. 162,619; Sept. 19.
Fortune Products Company, Chicago, Ill. Sweet milk chocolate. No. 160,491; Sept. 19.
Fox, Walter R., Leicester, England. Candy. No. 157,562; Sept. 19.
French, Harry C., Cleveland, Ohio. Oilproof fabric gloves, jumpers, and aprons. No. 162,618; Sept. 19.
Frenkel, L. & E., Inc., New York, N. Y. Cotton piece goods. No. 166,738; Sept. 19.
Friedman, Hugo, doing business as The Hugo Friedman Mfg. Co., Chicago, Ill. Extracting elevators, dental surgical curettes, operating knives, etc. No. 161,245; Sept. 19.
Froglett Tablet Co., The. (See Durante, Marie R.)
Fulghum & Company, Los Angeles, Calif. Hair nets. Nos. 168,030–1; Sept. 19.
Gattis Chemical Co., Nashville, Tenn. Remedy for disorders of stomach and liver. No. 149,745; Sept. 19.
Gavaza, George V., doing business as Automatic Siphon Filler Co., Beverly and Boston, Mass. Automatic siphons, bath sprays, faucet adapters, etc. No. 162,398; Sept. 19.
Giessner, Otto A., doing business as Pest-Tid Chemical Company, Chicago, Ill. Preparation for the alleviation of roup, diarrhea, bowel complaint, sorehead, etc. No. 162,406; Sept. 19.
Go-Ite Manufacturing Company, Kokomo, Ind. Filling attachments for tanks placed under the seats of automobiles. No. 148,381; Sept. 19.
Golber, H. E., and Company. (See Golber, Hyman E.)
Golber, Hyman E., doing business as H. E. Golber and Company, Chicago, Ill. Pencil leads and mechanical pencils holding such leads. No. 165,949; Sept. 9.
Guillon, Henri, Montrouge, France. Transmission or driving belts. No. 148,223; Sept. 19.
Hallian, Joseph, Co. (See Hallian, Joseph.)
Hallian, Joseph, doing business as Joseph Hallian Co., Boston, Mass. Transmission and differential grease and oils. No. 161,999; Sept. 19.
Hamberger-Polhemus Company, San Francisco, Calif. Kerosene. No. 163,631; Sept. 19.
Hardy, F. A., & Company, Chicago, Ill. Eyeglass bridges, temple frames, and mountings. No. 154,976; Sept. 19.
Hay, H. H., Sons, Portland, Me. Fruit sirup used as a food drink or food flavor. Nos. 160,132–3; Sept. 19.
Herbert Packing Co., Inc., San Jose, Calif. Canned fruits and vegetables. No. 160,189; Sept. 19.
Hockmeyer Bros., New York, N. Y. Cotton piece goods. No. 159,703; Sept. 19.
Hockmeyer Bros., New York, N. Y. Cotton piece goods. No. 165,792; Sept. 19.
Huyler's, New York, N. Y. Ice cream. No. 160,706; Sept. 19.
Jonas, Charles D., doing business as Bartlett & Bickley, London, England. Tobacco pipes. No. 167,469; Sept. 19.
Jones, Vess, New York, N. Y. Candy. No. 160,139; Sept. 19.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Jones, Voss, New York, N. Y. Chewing gum. No. 160,138; Sept. 19.
Judd, H. L., Company, New York, N. Y. Metal curtain rods. No. 165,235; Sept. 19.
Kandex Products, Incorporated, New York, N. Y., assignor to The Nucoa Butter Company. Neutral, somewhat acid, or somewhat alkaline pulverulent dry products of low specific gravity. No. 158,932; Sept. 19.
Kimble Glass Company, Chicago, Ill., and Vineland, N. J. Graduated chemical and laboratory glassware. Nos. 147,429–30; Sept. 19.
Klemperer, Gustav, doing business as Cosmos Trading Company, New York, N. Y. Hair nets. No. 155,503; Sept. 19.
Keystone Lubricating Company, Philadelphia, Pa. Lubricants. No. 163,045; Sept. 19.
Lauterjung & Sohn, Solingen-Sud, Germany. Swords, sabers, cutlasses, rapiers, etc. No. 125,390; Sept. 19.
Lechner, George S., doing business as Radina Remedy Co., Brooklyn, N. Y. Medicinal preparation used in the treatment of rheumatism, neuralgia, gout, sciatica, etc. No. 162,425; Sept. 19.
Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 164,326; Sept. 19.
Levine Brothers, Cincinnati, Ohio. Boys' suits. Nos. 162,682–3; Sept. 19.
Levine Brothers, Cincinnati, Ohio. Men's suits. Nos. 162,684–5; Sept. 19.
Levy, Lorna, New York, N. Y. Hair salve. No. 141,725; Sept. 19.
L'Heureux, Gustave, doing business as Liberty Chemical Company, Pawtucket, R. I. Chemical compound to remedy defective insulation in electrical conductors. No. 158,238; Sept. 19.
Liberty Chemical Company. (See L'Heureux, Gustave.)
Liberty Paper Co., New York, N. Y. Sealing tape. No. 166,696; Sept. 19.
Link Belt Co., Chicago, Ill. Mixers and preparing machines for molding sand. No. 160,244; Sept. 19.
Lion Specialty Co., Chicago, Ill. Chocolate-coated nuts. No. 160,764; Sept. 19.
Lubbers & Bell Mfg. Co., Clinton, Iowa. Fly swatters. No. 162,690; Sept. 19.
Macco Co., Inc., Milwaukee, Wis. Parting compound or composition. No. 162,429; Sept. 19.
Marshall Field & Company, Chicago, Ill. Shampoo. No. 161,538; Sept. 19.
Marshall Field & Company, Chicago, Ill. Writing paper and envelopes. No. 166,670; Sept. 19.
Maurice, R., & Co., Ltd., doing business as Therapeutic Foods Company, Willesden, London, England. Bread. No. 144,830; Sept. 19.
McAvity, T., and Sons Limited, St. John, New Brunswick, Canada. Metal valves. No. 160,954; Sept. 19.
McCabe, J. J., Lathe & Machinery Corporation, New York, N. Y. Lathes for cutting, chasing, filing, polishing, etc., iron or steel or other metals. No. 160,824; Sept. 19.
McIntosh Company, Springfield, Mass. Leather boots and shoes. No. 164,442; Sept. 19.
Menley & James Limited, New York, N. Y. Beef extract. No. 125,394; Sept. 19.
Mid-States Gummed Paper Co., Chicago, Ill. Gummed labels, paper, and tape. No. 166,842; Sept. 19.
Mifflin Chemical Corporation, Philadelphia, Pa. Antiseptic preparation. No. 149,471; Sept. 19.
Minnesota Valley Canning Co., Le Sueur, Minn. Canned vegetables. Nos. 161,575–6; Sept. 19.
Morris, Mann, & Reilly, Inc., Chicago, Ill. Hair nets. No. 167,646; Sept. 19.
Mueller Metals Company, Port Huron, Mich. Metal castings and forgings. No. 159,164; Sept. 19.
Naamlooze Vennootschap Vernis-en Verffabriek voorheen H. Vettewinkel & Zonen. (See Vettewinkel, Dirk H., assignor.)
National Paper Products Company, San Francisco, Calif. Toilet paper. No. 166,200; Sept. 19.
National Ring Traveler Co., Providence, R. I. Ring and twister travelers. No. 159,171; Sept. 19.
National Utilities Corporation, Milwaukee, Wis. Freshwater systems. No. 146,028; Sept. 19.
New Zealand Refrigerating Company Limited, The, Christchurch, New Zealand. Sheep and lambs' pelts. No. 161,374; Sept. 19.
New Zealand Refrigerating Company Limited, The, Christchurch, New Zealand. Sheep and lambs' pelts. No. 161,376; Sept. 19.
Nieman, Louis, Philadelphia, Pa. Leathers. No. 134,843; Sept. 19.
North American Honey Distributors. (See von Schuetz, Samuel F.)
Nucoa Butter Company, The. (See Kandex Products Incorporated, assignor.)
Octagon Top Co., Chicago, Ill. Candy. No. 157,899; Sept. 19.
Oklahoma Trading Corporation, New York, N. Y. Illuminating and lubricating oils and greases. No. 159,428; Sept. 19.
Oppenheimer, M. H., & Co., New York, N. Y. Cotton piece goods. No. 165,883; Sept. 19.
Orlik, Alfred, New York, N. Y. Pipes. Nos. 157,682–3; Sept. 19.
Ostra Corporation, The, New York, N. Y. Mechanical pencils. No. 167,362; Sept. 19.
Pabst Brewing Company, Milwaukee, Wis. Near beer or malt cereal beverages. No. 142,940; Sept. 19.
Palmer Candy Co., Sioux City, Iowa. Candy. No. 160,900; Sept. 19.
Pennsylvania Lubricating Company, Pittsburgh, Pa. Lubricating oils and greases. No. 160,205; Sept. 19.
Pest-U-Id Chemical Company. (See Glassner, Otto A.)
Petroleum Products Company, San Francisco, Calif. Gasoline, kerosene, distillate, lubricating oils and greases. No. 161,699; Sept. 19.
Phillips, Josiah G., doing business as World Refining Company, Easton, Pa. Lubricating oils and greases. No. 160,080; Sept. 19.
Phillips, Anna, doing business as A. Phillips, New York, N. Y. Ladies' neckwear. No. 162,894; Sept. 19.
Pierce, C. A., Oil Company. (See Pierce, Chester A.)
Pierce, Chester A., doing business as C. A. Pierce Oil Company, Akron, Ohio. Petroleum products consisting of gasoline, kerosene, lubricating oils, etc. No. 163,468; Sept. 19.
Pittsburgh Oil Refining Corporation, Baltimore, Md. Lubricant or grease for gear cases of automobiles. No. 144,423; Sept. 19.
Plumbridge, Sophie, New York, N. Y. Candy, fruit, and berry sirups, honey, etc. Nos. 151,017–18; Sept. 19.
Power Supply Company, Terre Haute, Ind. Hardware and plumbing and steam-fitting supplies. No. 145,646; Sept. 19.
Prophylacto Mfg. Co. (See Fisk, George F., jr.)
Pursell, Harley R., Kensington, Kans. Medicinal preparation for use in lung diseases, pneumonia, bronchitis, sore throat, etc. No. 156,657; Sept. 19.
Radina Remedy Co. (See Lechner, George S.)
Record Electrical Company Limited, The, Broadheath, Altrinchain, England. Ammeters, voltmeters, ohmmeters, wattmeters, etc. No. 142,237; Sept. 19.
Repp Orchard Products Co., Glassboro, N. J. Vinegar. No. 147,639; Sept. 19.
Rockwood Manufacturing Company, The, Indianapolis, Ind. Power-transmission pulleys. No. 163,114; Sept. 19.
Rytex Company, The, Indianapolis, Ind. Boxed stationery. No. 166,853; Sept. 19.
Samoset Cotton Mills, Talladega, Ala. Cotton denims in the piece. No. 165,611; Sept. 19.
S. & G. Manufacturing Company, Stockton, Calif. Fuel vaporizers. No. 161,804; Sept. 19.
Sauquoit Toilet Paper Co. Inc., New Hartford, N. Y. Toilet paper. No. 166,858; Sept. 19.
Savage, Henry W., Jensen, Fla. Citrus fruits and pineapples. No. 161,458; Sept. 19.
Shepardson Extract Co. (See Shepardson, Merton A.)
Shepardson, Merton A., doing business as Shepardson Extract Co., Springfield, Mass. Natural and artificial concentrated vanillas. No. 159,622; Sept. 19.
Silkwood-Pharis Wholesale Grocery Company, West Frankfort, Ill. Canned vegetables. No. 160,515; Sept. 19.
Silz, A., Inc., New York, N. Y. Dressed, packed, and prepared poultry and game birds, etc. No. 150,982; Sept. 19.
Societe Rodier, Paris, France. Woolen piece goods. No. 167,022; Sept. 19.
Springdale Vinegar Company, Springdale, Ark. Pure apple-cider vinegar. No. 160,639; Sept. 19.
Stahl, Eldman & Company, Inc., Baltimore, Md. Coffee. No. 159,770; Sept. 19.
Standard Oil Company of New York, New York, N. Y. Candles. No. 162,147; Sept. 19.
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Crank-case-flushing oil. No. 161,280; Sept. 19.
Stern, Joseph, & Sons, New York, N. Y. Packaged bacon. No. 151,024; Sept. 19.
Stokes & Wells, St. Louis, Mo. Pastry ice-cream cones. No. 160,638; Sept. 19.
Strauss, Howard G., New York, N. Y. Razor blades. No. 162,791; Sept. 19.
Sussman, M., & Sons, Philadelphia, Pa. Men's coats, vests, and trousers. No. 162,778; Sept. 19.
Swanell Brokerage Co., Cedar Rapids, Iowa. Malt sirup for table use as a food. No. 160,032; Sept. 19.
Symons-Moffett Co., Flint, Mich. Coffee, tea, canned vegetables and fruits, and evaporated milk. No. 157,449; Sept. 19.
Takis, Costis, New York, N. Y. Choice chocolates and bonbons packed in boxes and containers. No. 137,504; Sept. 19.
Therapeutic Foods Company. (See Maurice, R., & Co.)
Thompson, G. H., Inc., Seattle, Wash. Candies. No. 159,541; Sept. 19.
Twentieth Century Laboratories, Chicago, Ill. Tissue-building tonic, liniment for sprains, bruises, nerve tonic, bronchial sirup, etc. No. 161,509; Sept. 19.
Tyree, J. S., Chemist, Inc., Washington, D. C. Antiseptic powders. No. 161,459; Sept. 19.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tyree, Josiah S., Washington, D. C. Medicinal preparations for use in cases of chronic pyelitis, inflammation of the kidneys, etc. No. 161,461; Sept. 19.
Union Candy Company, The, St. Louis, Mo. Candies. No. 160,729; Sept. 19.
United Hosiery Mills Corporation, East Chattanooga, Tenn. Hosiery. No. 162,782; Sept. 19.
U. S. Oil Works. (See Bradt, Charles C.)
Vettewinkel, Dirk H., doing business as H. Vettewinkel & Zonen, assignor to Naamlooze Vennootschap Vernis-en Verffabriek voorheen H. Vettewinkel & Zonen, Amsterdam, Netherlands. Varnishes, lacquers, paints, paint removers, etc. No. 142,183; Sept. 19.
Vettewinkel, H., & Zonen. (See Vettewinkel, Dirk H.)
Vogt Brothers Mfg. Co., Louisville, Ky. Pumps used in handling acids, feeding boilers, etc. No. 160,217; Sept. 19.
Von Schuetz, Samuel F., doing business as North American Honey Distributors, Council Bluffs, Iowa. Honey and beeswax. No. 161,600; Sept. 19.
Warner Sugar Refining Company, New York, N. Y. Sugar in granulated, lump, block, and powdered form. No. 159,824; Sept. 19.
Weidman, Ward & Co., Albany, N. Y. Coffee. No. 159,988; Sept. 19.
White, Luella A., Buffalo, N. Y. Medicinal preparations for nervousness, anemia, etc. No. 161,215; Sept. 19.
Wilhelmann, Gustav, Gesellschaft mit beschränkter Haftung, Altenburg, Germany. Sewing machines and parts thereof, sewing-machine tables, etc. No. 155,881; Sept. 19.
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. Nos. 160,170–4; Sept. 19.
Will & Baumer Candle Co. Inc., Syracuse, N. Y. Candles. No. 160,176; Sept. 19.
Will & Baumer Candle Co. Inc., Syracuse, N. Y. Candles. Nos. 160,574–6; Sept. 19.
Willson Goggles, Inc., Reading, Pa. Lenses for goggles and protection glasses. No. 160,734; Sept. 19.
Wisconsin Cheese Producers Federation, Plymouth, Wis. Cheese. No. 153,119; Sept. 19.
World Refining Company. (See Phillips, Josiah G.)
Wright, Albertis E., Evanston, Ill. Salad dressing. No. 158,500; Sept. 19.
Yorba Linda Citrus Association, The, Yorba Linda, Calif. Fresh citrus fruits. No. 160,649; Sept. 19.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 19TH DAY OF SEPTEMBER, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acoustic instrument. C. Kahn. No. 1,429,592; Sept. 19.
Advertising device. J. A. C. Bergeron. No. 1,429,274; Sept. 19.
Aeroplane. F. Gill. No. 1,429,730; Sept. 19.
Aeroplane. G. Hansen and E. Schmit. No. 1,429,284; Sept 19.
Air-actuated machines, Automatic control for compressed-. C. C. Cheney. No. 1,429,325; Sept. 19.
Air-filtering apparatus, Compressed-. P. H. Cazier and W. H. Hecker. No. 1,429,713; Sept. 19.
Aircraft. L. Breguet. No. 1,429,484; Sept. 19.
Alarm: *See*—
  Burglar alarm.
Aldehydes and anhydrides from diesters, Manufacturing. F. W. Skirrow. No. 1,429,650; Sept. 19.
Amines, Making substituted. C. B. Chatfield. No. 1,429,714; Sept. 19.
Amusement-park device. F. Sallmann. No. 1,429,457; Sept. 19.
Annealing furnace, Continuous. M. Van Marle. No. 1,429,380; Sept. 19.
Anthraquinone, Purification of. H. F. Lewis. No. 1,429,514; Sept. 19.
Antiskid chain. R. Briggs. No. 1,429,674; Sept. 19.
Antiskid-chain-applying device. C. Flugel. No. 1,429,677; Sept. 19.
Attaching device. W. M. Parker. No. 1,429,369; Sept. 19.
Automobile bumper bracket. W. G. Cox. No. 1,429,410; Sept. 19.
Automobile chain. J. C. Edwards. No. 1,429,853; Sept 19.
Automobile exrtenting attachment. A. van Leeuwen. No. 1,429,305; Sept. 19.
Automobile heater. J. B. Francisco. No. 1,429,332; Sept. 19.
Automobile lock. F. M. Furber. No. 1,429,334; Sept. 19.
Automobile lock. B. Liebowitz and J. Balsam. No. 1,429,599; Sept. 19.
Automobile sanding device. L. Engstrom. No. 1,429,855; Sept. 19.
Automobile sled. I. Urevig. No. 1,429,658; Sept. 19.
Automobile transmission. J. E. Johnson. No. 1,429,882; Sept. 19.
Automobiles, Antisplashing device for. J. W. Netherton. No. 1,429,366; Sept. 19.
Automobiles, Bumper for. J. Turner and P. P. Crabill. No. 1,429,806; Sept. 19.
Automobiles, Electric lock and alarm for. S. L. Mathews. No. 1,429,247; Sept. 19.
Automobiles, Windshield wing for. W. R. Johnston. No. 1,429,433; Sept. 19.
Awning bracket. F. Miller. No. 1,429,754; Sept. 19.
Babbitting machine. A. E. Pearson. No. 1,429,767; Sept. 19.
Bag: *See*—
  Caddy bag.
Baggage stand for hotel guest rooms. A. W. Slagbt. No. 1,429,651; Sept. 19.
Balance, Calculating. A. E. Krick. No. 1,429,907; Sept. 19.
Ball-rolling machine, Metal-. C. T. Coates. No. 1,429,676; Sept. 19.
Balls, Apparatus for the revision of. R. W. Svenning. No. 1,429,797; Sept. 19.
Bandages, Producing suspensory. A. P. Stokes. No. 1,429,545; Sept. 19.
Bank savings system. M. H. Shadinger and C. M. Jones. No. 1,429,461; Sept. 19.
Bar: *See*—
  Grate bar.
Basket, Developing. G. B. Lambert. No. 1,429,889; Sept. 19.
Bathtub leg, Detachable. R. H. Heberling. No. 1,429,424; Sept. 19.
Battery: *See*—
  Storage battery.
Bearing. A. Kingsbury. No. 1,429,744; Sept. 19.
Bearing. J. B. Williams. No. 1,429,663; Sept. 19.
Bearing-cup puller. F. Carlisle. No. 1,429,507; Sept. 19.
Bearing for crank shafts, Thrust. J. J. Frank. No. 1,429,409; Sept. 19.
Bearing, Roller. T. W. Bryant. No. 1,429,224; Sept. 19.
Bearing, Sensitive spindle. N. H. Anderson. No. 1,429,393; Sept. 19.
Beam structure. A. P. Lundin. No. 1,429,600; Sept. 19.
Bearing, Supporting. R. Marsland. No. 1,429,606; Sept. 19.
Bed, Convertible. E. B. Handel. No. 1,429,239; Sept. 19.
Bed or the like. E. Nielsen. No. 1,429,759; Sept. 19.
Bedstead. F. G. Gale. No. 1,429,422; Sept. 19.
Bed, Trunk. F. Moore. No. 1,429,523; Sept. 19.
Beekeeper's appliance. C. F. Balle. No. 1,429,827; Sept. 19.
Belt. A. O. Rutz. No. 1,429,638; Sept. 19.
Belt-conveyer tripper. O. B. Hanson. No. 1,429,732; Sept. 19.
Belt dressing. E. B. Folsom. No. 1,429,498; Sept. 19.
Belt dressing. P. E. Ulrich. No. 1,429,467; Sept. 19.
Bell-ringing device, Automatic. A. I. Woodring. No. 1,429,666; Sept. 19.
Billiard cue, ferrule, and tip. J. J. Medvec. No. 1,429,752; Sept. 19.
Binder, Core. G. B. Hill. No. 1,429,879; Sept. 19.
Binder, Loose-leaf. L. W. Bergman. No. 1,429,708; Sept. 19.
Binder, Record. R. H. Fraser. No. 1,429,864; Sept. 19.
Bleaching and dyeing vegetable and animal fibers. A. S. Roberts. No. 1,429,775; Sept. 19.
Blooming mill. J. L. Albez. No. 1,429,311; Sept. 19.
Board: *See*—
  Plaster-receiving board.
Boiler: *See*—
  Superheater boiler. Water-tube boiler.
Boilers, Auxiliary pressure-relief device for steam. C. W. Obert. No. 1,429,296; Sept. 19.
Bolt. C. Fassett. No. 1,429,859; Sept. 19.
Bolt anchor. H. W. Pleister. Nos. 1,429,298–9; Sept. 19.
Book, Cash-sales. G. Hartrick. No. 1,429,873; Sept. 19.
Borneol, Manufacturing. A. Haller. No. 1,429,342; Sept. 19.
Bottle, Nursing. R. J. Hagerty. No. 1,429,585; Sept. 19.
Box: *See*—
  Display box. Fire-alarm box.
Brace: *See*—
  Foot, toe, and ankle brace.
Bracket: *See*—
  Automobile bumper bracket. Awning bracket.
Brake: *See*—
  Gun-mount brake. Vehicle brake.
  Sled brake.
Brake shoes, Filling composition for. G. L. McIntyre. No. 1,429,358; Sept. 19.
Broom, Lawn. W. P. Ganghan. No. 1,429,579; Sept. 19.
Brush, Air. W. F. Rothermund. No. 1,429,537; Sept. 19.
Buckle, L. Sayko. No. 1,429,641; Sept. 19.
Building construction. H. and P. J. Klein. No. 1,429,355; Sept. 19.
Burglar alarm. R. Kochler. No. 1,429,595; Sept. 19.
Burner: *See*—
  Liquid-fuel burner. Oil burner.
Burner, G. C. Evans. No. 1,429,415; Sept. 19.
Burnishing tool. A. Callebert. No. 1,429,403; Sept. 19.
Button, Cuff. M. C. Miller. No. 1,429,290; Sept. 19.
Cabinet. J. H. Rand, jr., and V. F. King. No. 1,429,627; Sept. 19.
Cabinet, Kitchen. M. M. Schultz. No. 1,429,697; Sept. 19.
Cable carrier. J. F. Reilly. Nos. 1,429,631–2; Sept. 19.
Caddy bag. H. A. Myers. No. 1,429,524; Sept. 19.
Can cover. F. H. Jones. No. 1,429,507; Sept. 19.
Can-closing machine. P. W. Fleischer. No. 1,429,231; Sept. 19.
Can opener. F. L. Whitcomb. No. 1,429,471; Sept. 19.
Canning device. L. Scheekman. No. 1,429,779; Sept. 19.
Capillary attraction between structural elements, Means for limiting. F. J. Jackson. No. 1,429,351; Sept. 19.
Car-anchor. J. T. Gentry. No. 1,429,582; Sept. 19.
Carboy carrier. A. J. Becker. No. 1,429,218; Sept. 19.
Carburetor. H. G. Renner. No. 1,429,534; Sept. 19.
Carburetor. C. T. Schulz. No. 1,429,257; Sept. 19.
Card holder. L. L. Christensen. No. 1,429,406; Sept. 19.
Car, Railway. G. E. Knepper. No. 1,429,745; Sept. 19.
Car seat. T. D. Owler and H. S. Gordon. No. 1,429,368; Sept. 19.
Car, Tank. A. M. Nelson. No. 1,429,685; Sept. 19.
Carrier: *See*—
  Cable carrier. Photographic film carrier.
  Carboy carrier. Tire carrier.
  Egg holder and carrier.
Case: *See*—
  Cigarette case. Collar case.

Casserole frame. J. J. O'Mara. No. 1,429,763; Sept. 19.
Casting iron pipes and means for producing the same. Core for. G. G. Berry. No. 1,429,562; Sept. 19.
Casting machine. Centrifugal. J. V. Turner. No. 1,429,807; Sept. 19.
Casting, Method of and apparatus for metal. H. T. Case. No. 1,429,568; Sept. 19.
Center-finding instrument. E. T. Strauss. No. 1,429,793; Sept. 19.
Centrifuge, Self-centering. E. E. F. Fagerström. No. 1,429,725; Sept. 19.
Certificate. F. E. Hamilton. No. 1,429,423; Sept. 19.
Chain tool. A. H. Grant. No. 1,429,731; Sept. 19.
Chains, Link pin for dredger-bucket. A. McMahon. No. 1,429,518; Sept. 19.
Chair attachment, Removable. A. R. Goldsmith. No. 1,429,867; Sept. 19.
Change making and registering machine. E. D. Votaw. No. 1,429,307; Sept. 19.
Chart, Waterway. G. W. R. Harriman. No. 1,429,285; Sept. 19.
Chiropractic table. E. Bowman. No. 1,429,709; Sept. 19.
Chuck. W. A. Barker. Nos. 1,429,395–6; Sept. 19.
Churn. J. F. Bertram. No. 1,429,319; Sept. 19.
Cigarette case, Wooden. W. Kimbel. No. 1,429,743; Sept. 19.
Cigarette stand. W. E. Edwards. No. 1,429,229; Sept. 19.
Cinematograph films for exhibition, Delivering. E. J. Way. No. 1,429,469; Sept. 19.
Cinematographs, Fire-extinguishing apparatus for. W. Taylor. No. 1,429,548; Sept. 19.
Circuit interrupter. C. L. Fortescue. No. 1,429,278; Sept. 19.
Circuit receiver. H. J. J. M. de Regnauld de Bellescize. No. 1,429,572; Sept. 19.
Clamp: *See*—
Door-supporting clamp.
Clasp: *See*—
Collar clasp.
Cleaner: *See*—
Vacuum cleaner.
Clock, Electric. L. Pillion. No. 1,429,693; Sept. 19.
Clothes wringer. E. F. Beebe. No. 1,429,318; Sept. 19.
Clutch and stop mechanism. F. M. Card. No. 1,429,404; Sept. 29.
Clutch facing and making same, Disk. W. Achtmeyer. No. 1,429,266; Sept. 19.
Clutch-lever collar. C. G. Wood. No. 1,429,479; Sept. 19.
Clutch mechanism. J. F. Godfrey. No. 1,429,280; Sept. 19.
Coaches, Drop step for passenger. J. F. Maurer and G. W. Beiser. No. 1,429,607; Sept. 19.
Coke, Apparatus for quenching, loading, and screening. C. Still. No. 1,429,791; Sept. 19.
Coke oven. P. Goffart. No. 1,429,281; Sept. 19.
Coke-oven wall. O. Piette. No. 1,429,252; Sept. 19.
Collar case. J. M. May. No. 1,429,608; Sept. 19.
Collar clasp, Soft-. H. L. Tooker. No. 1,429,804; Sept. 19.
Colloidal solution and preparing same. H. Hemelmann. No. 1,429,876; Sept. 19.
Comb. E. H. Ross. No. 1,429,635; Sept. 19.
Comb, Hair. C. Strier. No. 1,429,794; Sept. 19.
Combing machine, Wool-. M. Böhmer. No. 1,429,911; Sept. 19.
Commutator-segments manufacture. H. P. Janke. No. 1,429,352; Sept. 19.
Compass, Lead. R. C. Dickson. No. 1,429,848; Sept. 19.
Compasses. H. Perrot. No. 1,429,625; Sept. 19.
Composition, Filling. R. Rice. No. 1,429,455; Sept. 19.
Compressor. D. C. Baker. No. 1,429,829; Sept. 19.
Compressor and condenser, Combined. A. Selrod. No. 1,429,460; Sept. 19.
Concentrator. G. T. Cooley. No. 1,429,845; Sept. 19.
Concrete body, Dampproofing. F. G. Jordan. No. 1,429,740; Sept. 19.
Concrete construction, Stud for R. A. Megenity. No. 1,429,683; Sept. 19.
Concrete-form support. H. O. Davidson. No. 1,429,412; Sept. 19.
Concrete floors, Joint strip for. F. J. Borkenstein. No. 1,429,564; Sept. 19.
Concrete insert. C. J. O'Brien. No. 1,429,686; Sept. 19.
Condenser, Variable. W. Dubilier. No. 1,429,227; Sept. 19.
Contact material, Cleaning. T. L. Briggs. No. 1,429,222; Sept. 19.
Coop, Chicken. I. Vanderbeck. No. 1,429,704; Sept. 19.
Coop, Child's. J. Gabriel. No. 1,429,335; Sept. 19.
Counter and shank fastening machine. J. H. Pope. No. 1,429,694; Sept. 19.
Coupling: *See*—
Shaft coupling.
Coupling-release mechanism. J. F. O'Connor. No. 1,429,689; Sept. 19.
Coupling-release mechanism. W. A. Geiger. No. 1,429,235; Sept. 19.
Cotter pin. J. S. Karsky. No. 1,429,353; Sept. 19.
Cotton, Method of and apparatus for sampling. W. D. Mallory. No. 1,429,899; Sept. 19.
Crank cases, Combination magneto contact and oil conductor for engine. R. W. Ransdell. No. 1,429,454; Sept. 19.
Crate, Poultry. E. Cox. No. 1,429,718; Sept. 19.
Creasing iron. F. G. Hofmann. No. 1,429,880; Sept. 19.
Crib, Folding. E. E. Gowell. No. 1,429,869; Sept. 19.
Crutch tip. G. Hipwood. Nos. 1,429,428–9; Sept. 19.
Culinary utensil. E. De Armond. No. 1,429,492; Sept. 19.
Cultivator. G. F. Warner. No. 1,429,384; Sept. 19.
Cup: *See*—
Oil cup.
Curb box or pipe. P. J. Ihrig. No. 1,429,350; Sept. 19.
Cutter: *See*—
Milling cutter. Vegetable cutter.
Decoy, Floating. F. Bauer. No. 1,429,558; Sept. 19.
Deflector shield. M. H. Donahue. No. 1,429,722; Sept. 19.
Dehydrators, Automatic discharge means for. W. Meredith. No. 1,429,363; Sept. 19.
Dental casting ring. A. O. Brophy. No. 1,429,322; Sept. 19.
Diaphragm tuning. E. C. Wood. No. 1,429,664; Sept. 19.
Die. H. Bellon. No. 1,429,219; Sept. 19.
Differential flotation process. B. Stevens. No. 1,429,544; Sept. 19.
Disk mill. S. Steinmetz. No. 1,429,258; Sept. 19.
Dispensing device for containers. E. H. Berry. No. 1,429,561; Sept. 19.
Dispensing-machine supply. H. H. Lamb. No. 1,429,511; Sept. 19.
Display box. F. X. List. No. 1,429,442; Sept. 19.
Display device. D. B. Samuels. No. 1,429,458; Sept. 19.
Door. J. D. Kober. No. 1,429,509; Sept. 19.
Door, Building. W. H. Beall. No. 1,429,833; Sept. 19.
Door fastener. F. T. Robinson. No. 1,429,536; Sept. 19.
Door-mat-operated animated figure. F. E. Herr. No. 1,429,506; Sept. 19.
Door-supporting clamp. E. M. Solinh. No. 1,429,788; Sept. 19.
Doors, Track for sliding. S. W. Parsons. No. 1,429,620; Sept. 19.
Dough for bakery products during fermentation process, Determining condition of. C. J. Patterson. No. 1,429,526; Sept. 19.
Doughnut-cooking machine. J. N. Judson. No. 1,429,904; Sept. 19.
Draft equalizer. C. L. Gordon. No. 1,429,868; Sept. 19.
Draft equalizer. P. O. Heller. No. 1,429,425; Sept. 19.
Draftmeans, Adjustable. F. H. Gerdeman. No. 1,429,729; Sept. 19.
Drag link. F. P. Williams. No. 1,429,705; Sept. 19.
Dredgers, Flushing hopper for shallow and deep. W. Weber. No. 1,429,387; Sept. 19.
Drill: *See*—
Rock drill.
Drill press. J. D. Gibbs. No. 1,429,866; Sept. 19.
Drill-steel retainer. G. G. Tuttle. Nos. 1,429,808–10; Sept. 19.
Drink mixer. W. Lyngar. No. 1,429,747; Sept. 19.
Drum and making the same. W. Christlan. No. 1,429,843; Sept. 19.
Drum machine. H. Carle. No. 1,429,324; Sept. 19.
Dyestuff, Blue wool. H. Schweitzer. No. 1,429,781; Sept. 19.
Egg holder and carrier. H. L. G. Moore. No. 1,429,610; Sept. 19.
Electrical apparatus. T. W. Varley. No. 1,429,381; Sept. 19.
Electrical instruments, Damping device for. H. B. Brown. No. 1,429,840; Sept. 19.
Electric accumulators, and the manufacture thereof, Negative plate for. A. Pouchain. No. 1,429,360; Sept. 19.
Electric conductors, Making. J. Lind. No. 1,429,441; Sept. 19.
Electric furnace. M. S. Clawson. No. 1,429,489; Sept. 19.
Electric furnace. C. I. Hayes. No. 1,429,286; Sept. 19.
Electric heater. A. A. Buck. No. 1,429,402; Sept. 19.
Electric heater. B. W. Macy. No. 1,429,898; Sept. 19.
Electric service switch. G. A. Burnham. No. 1,429,275; Sept. 19.
Electroplating apparatus. F. R. Klaus and H. W. Kranz. No. 1,429,438; Sept. 19.
Elevating loader. H. D. Schneider. No. 1,429,780; Sept. 19.
Emulsion. H. N. Holmes and D. H. Cameron. No. 1,429,430; Sept. 19.
Engine: *See*—
Gas engine. Internal-combustion engine.
Engines and the like, Starting apparatus for airplanes. J. Bijur. Nos. 1,429,670–1; Sept. 19.
Engines, Auxiliary air intake for internal-combustion. J. H. Prewitt. No. 1,429,770; Sept. 19.
Engines, Construction for traction. E. E. Wickersham. No. 1,429,472; Sept. 19.
Engines, Tandem two-belt fan drive for tractor. P. H. Thompson. No. 1,429,464; Sept. 19.
Envelope-closure tool. J. Stiriss. No. 1,429,792; Sept. 19.
Fabric, Protected. G. J. Nikolas. No. 1,429,295; Sept. 19.
Facings and the like to walls and the like, Securing. R. A. Mecenity. No. 1,429,682; Sept. 19.
Fan, Transmitting. M. P. Schetzel. No. 1,429,538; Sept. 19.
Farm implement. G. S. Stephenson. No. 1,429,376; Sept. 19.
Faucet. M. W. Russell. No. 1,429,637; Sept. 19.
Faucet, Mixing. W. A. England and J. L. Mattingly. No. 1,429,574; Sept. 19.
Feeder, Stock. C. G. Huggins. No. 1,429,287; Sept. 19.
Feeding device, Automatic stock-. E. J. O'Neill and H. T. White. No. 1,429,297; Sept. 19.

Feeding, sorting, and collecting mechanism. A. F. Sweeden. No. 1,429,547; Sept. 19.
Feed mixer. J. G. Steele. No. 1,429,790; Sept. 19.
Feed-water-heater system, Locomotive. E. A. Averill. No. 1,429,553; Sept. 19.
Fence, Portable. M. W. Rhoades. No. 1,429,774; Sept. 19.
Fermentation meter. A. J. Banks. No. 1,429,260; Sept. 19.
Ferrotungsten, Purifying tin-bearing. F. M. Becket. No. 1,429,272; Sept. 19.
Film reel. G. Passavanti. No. 1,429,692; Sept. 19.
Filter. A. M. Capro. No. 1,429,488; Sept. 19.
Filter-bottom construction. J. E. Williamson. No. 1,429,477; Sept. 19.
Filtering apparatus. E. W. W. Keene. No. 1,429,913; Sept. 19.
Finger-print composition. C. F. Glass. No. 1,429,338; Sept. 19.
Fire-alarm box. R. Zakrzewski and K. Sulek. No. 1,429,668; Sept. 19.
Firearm. J. D. Pedersen. No. 1,429,621; Sept. 19.
Fire-resistant composition. G. S. Pease. No. 1,429,451; Sept. 19.
Flash-light or battery hand lamp. A. W. Wellington. No. 1,429,261; Sept. 19.
Fluid-measuring apparatus. N. B. Gardiner. No. 1,429,232; Sept. 19.
Fluid-tight joint. W. H. Sumbling. No. 1,429,303; Sept. 19.
Flume gratings, Device for cleaning. W. O. Randlett. No. 1,429,629; Sept. 19.
Flushing receptacle. E. J. Schneider. No. 1,429,643; Sept. 19.
Flush tank. R. O. Tilden. No. 1,429,304; Sept. 19.
Fly-killing device, Electrical. C. Pandolfo. No. 1,429,691; Sept. 19.
Food containers, Exhausting. J. F. Anderson. No. 1,429,392; Sept. 19.
Food dispenser. L. J. Van Fleet. No. 1,429,260; Sept. 19.
Foot, toe, and ankle brace, Automatic. G. F. Madinger. No. 1,429,604; Sept. 19.
Frame: *See*—
Casserole frame.
Frequency impulses, Method of and apparatus for detecting, measuring, and utilizing low-. R. A. Fessenden. No. 1,429,497; Sept. 19.
Fruit juices, Treating. J. G. F. Hieber. No. 1,429,679; Sept. 19.
Furnace: *See*—
Annealing furnace. Metallurgical furnace.
Electric furnace.
Furnace linings, Preparing. M. Unger. No. 1,429,909; Sept. 19.
Furnace pipe. H. A. Acer. No. 1,429,822; Sept. 19.
Fuse plug, Renewable. N. Bohlin and S. Forner. No. 1,429,672; Sept. 19.
Games, Imoelling device for. W. E. Stonebridge. No. 1,429,656; Sept. 19.
Garment fastener. R. J. Mulvey. No. 1,429,292; Sept. 19.
Garment hanger. H. L. Blener. No. 1,429,835; Sept. 19.
Gas-burner attachment. L. W. Baecker. No. 1,429,826; Sept. 19.
Gas engine. E. J. and J. F. Woolf. No. 1,429,818; Sept. 19.
Gas furnaces, Retort for. G. Horn. No. 1,429,340; Sept. 19.
Gas producer. A. L. Galusha. No. 1,429,578; Sept. 19.
Gas producers or furnaces, Coal feed for. O. T. Brown. No. 1,429,711; Sept. 19.
Gaseous mixtures, Apparatus for the separation of. P. E. Haynes. No. 1,429,903; Sept. 19.
Gaseous mixtures, Separation of. P. E. Haynes. No. 1,429,242; Sept. 19.
Gate-releasing device. J. Lesjak. No. 1,429,597; Sept. 19.
Gauge: *See*—
Inside gauge. Liquid-level gauge.
Line gauge.
Gearing, Variable-speed. G. E. and C. A. Krantz. No. 1,429,439; Sept. 19.
Gold and other precious metals, Device for saving. S. J. Marsh. No. 1,429,750; Sept. 19.
Golf club. A. Craig. No. 1,429,569; Sept. 19.
Governor, Motor. G. A. Strom. No. 1,429,795; Sept. 19.
Grain-milling machine. J. B. Righter. No. 1,429,908; Sept. 19.
Gramophone, Collapsible. J. Green. No. 1,429,340; Sept. 19.
Grass destroyer, Quack-. H. Beuning. No. 1,429,563; Sept. 19.
Grate bar. H. Budd. No. 1,429,486; Sept. 19.
Grate, Furnace. S. B. Mott. No. 1,429,757; Sept. 19.
Grinder, Combined drill and valve. V. Matalavage. No. 1,429,361; Sept. 19.
Grinding machine. E. W. Worth. No. 1,429,819; Sept. 19.
Gun, Machine. B. Putnam. No. 1,429,370; Sept. 19.
Gun-mount brake. E. F. Norelius. No. 1,429,450; Sept. 19.
Gyroscope. J. A. Flint. No. 1,429,577; Sept. 19.
Gyroscopic apparatus. J. F. Hayford and L. J. Briggs. No. 1,429,588; Sept. 19.
Hairpin. R. S. Busby. No. 1,429,712; Sept. 19.
Hairpin. A. Wenger. No. 1,429,816; Sept. 19.
Hammer, Fluid-power. E. J. Fritsch and R. W. Nazel. No. 1,429,421; Sept. 19.
Handle. F. A. Morgan. No. 1,429,446; Sept. 19.
Handhole plate. W. C. Jacobs. No. 1,429,739; Sept. 19.
Hanger: *See*—
Garment hanger. Harness hanger.
Hardness-testing machine. J. G. Ayers, jr. No. 1,429,481; Sept. 19.
Harness hanger. C. Sievert. No. 1,429,784; Sept. 19.
Harrow, Tandem disk. C. S. Sharp. No. 1,429,462; Sept. 19.
Harvester, Endless apron for. W. Webber. No. 1,429,470; Sept. 19.
Hats, Forming lining surfaces in. A. W. Mitchell. No. 1,429,364; Sept. 19.
Headlight. C. E. Godley. No. 1,429,236; Sept. 19.
Headlight control for automobiles. F. Grodi. No. 1,429,283; Sept. 19.
Headlight dimmer. N. A. Oliver. No. 1,429,762; Sept. 19.
Heater: *See*—
Automobile heater. Plate heater.
Electric heater. Water heater.
Heel-seating machine, Wood-. L. B. Whipple. No. 1,429,309; Sept. 19.
Hinge. F. D. Leslie. No. 1,429,513; Sept. 19.
Hinge. H. A. Paul. No. 1,429,527; Sept. 19.
Hinge and door holder, Combined. T. W. Fade. No. 1,429,416; Sept. 19.
Hoisting apparatus, Portable. A. J. Arwine. No. 1,429,216; Sept. 19.
Hoisting mechanism. B. S. Snow. No. 1,429,653; Sept. 19.
Hook and eye tape. A. M. Hess. No. 1,429,343; Sept. 19.
Hoop: *See*—
Playing hoop.
Horseshoe. J. R. Gillies. No. 1,429,583; Sept. 19.
Hose connection. J. W. Patterson. No. 1,429,766; Sept. 19.
Hose, Coupling for train-pipe-connection. M. E. Keehan and J. J. Glass. No. 1,429,593; Sept. 19.
Hub, Wheel. W. C. George and F. N. Nofsger. No. 1,429,501; Sept. 19.
Hydraulic press. J. N. Wood. No. 1,429,665; Sept. 19.
Hydrocarbons, Constructive conversion of. H. R. Berry. No. 1,429,910; Sept. 19.
Ice-cream-brick center punch. F. R. Carter, O. A. Otten, and J. C. Willard. No. 1,429,405; Sept. 19.
Ice-cream-storage apparatus. C. A. Kulenkampff. No. 1,429,887; Sept. 19.
Ignition-point-grinding device. J. Thomas. No. 1,429,801; Sept. 19.
Inductance device. H. J. Power. No. 1,429,453; Sept. 19.
Ingot mold, Hot-top. J. I. Peyton and S. E. Hitt. No. 1,429,251; Sept. 19.
Inhaling device for use in the treatment of asthmatic, catarrhal, and other affections. A. P. Stokes. No. 1,429,545; Sept. 19.
Ink pad and making the same. R. H. Kee. No. 1,429,354; Sept. 19.
Inside gauge. M. Bartholdy. No. 1,429,556; Sept. 19.
Insulating material, Treating peat for manufacturing an. R. Graeffe. No. 1,429,503; Sept. 19.
Insulator, Oil-seal. G. R. Lewers. No. 1,429,914; Sept. 19.
Internal-combustion engine, Double-acting. J. B. Price. No. 1,429,695; Sept. 19.
Internal-combustion engine, High-powered multicylinder. J. H. Houser. No. 1,429,877; Sept. 19.
Internal-combustion engine, Oscillating. J. V. Rice, jr. No. 1,429,254; Sept. 19.
Invoice sheet. W. A. Kelly. No. 1,429,436; Sept. 19.
Iodine, Tablet for producing. L. Davis. No. 1,429,276; Sept. 19.
Iron: *See*—
Creasing iron. Soldering iron.
Irrigating machine. J. C. Mitchell. No. 1,429,756; Sept. 19.
Jar holder, Collapsible fruit-. A. C. Burlingame. No. 1,429,675; Sept. 19.
Jar opener and sealer, Combination fruit-. E. V. Phillips. No. 1,429,452; Sept. 19.
Jock strap. T. La Maida. No. 1,429,510; Sept. 19.
Joint: *See*—
Fluid-tight joint. Rail joint.
Juices, jellies, and jams from vegetable substances such as fruits and vegetables, Making. O. Bielmann. No. 1,429,834; Sept. 19.
Keg, Metallic. R. W. Blanton. No. 1,429,220; Sept. 19.
Key: *See*—
String-instrument key.
Lacing machine. H. E. Enslin. No. 1,429,414; Sept. 19.
Lacquer, Drying Japanese. Y. Shibata and Y. Nishizawa. No. 1,429,542; Sept. 19.
Lamp Base for incandescent. F. W. Lyle. No. 1,429,602; Sept. 19.
Lamp, Instrument-board. T. J. Kerwin. No. 1,429,884; Sept. 19.
Lamp with mechanical electric generator, Electric pocket. A. Luzy. No. 1,429,601; Sept. 19.
Land leveler. H. R. Lytle. No. 1,429,516; Sept. 19.
Lantern, Projector. W. L. Isbills. No. 1,429,244; Sept. 19.
Last, Shoemaker's. H. E. Trent. No. 1,429,702; Sept. 19.
Latch, Gate-. W. L. Weintz. No. 1,429,389; Sept. 19.
Lettering process. E. L. Merritt. No. 1,429,445; Sept. 19.
Level and transit, Convertible builder's. W. F. Klefer and J. H. Warren. No. 1,429,437; Sept. 19.
Lid holder. L. N. Rebideau. No. 1,429,630; Sept. 19.
Life-saving and swimming apparatus. J. Reiter. No. 1,429,773; Sept. 19.

Light: *See*—
Ship's light.
Line gauge, Self-adjustable. C. H. Smith. No. 1,429,785; Sept. 19.
Linotype and intertype machines, Cleaner for the casting pots or pot wells of. J. M. Peiffer. No. 1,429,900; Sept. 19.
Liquid aerator. J. W. Small. No. 1,429,652; Sept. 19.
Liquid-fuel burner. J. Smith. No. 1,429,373; Sept. 19.
Liquid-level gauge. J. H. Bauer and W. F. Kennell. No. 1,429,832; Sept. 19.
Lock: *See*—
Automobile lock. Sash lock.
Steering-wheel lock.
Lock. W. R. Michael. No. 1,429,609; Sept. 19.
Locomotive. F. Ljungström. No. 1,429,746; Sept. 19.
Locomotive provided with air cooler for condensing purposes. F. Ljungström. No. 1,429,356; Sept. 19.
Locomotive provided with condenser. F. Ljungström. No. 1,429,357; Sept. 19.
Locomotive, Steam-driven. C. Kohler. No. 1,429,596; Sept. 19.
Lubricating system. O. C. Baldwin. No. 1,429,268; Sept. 19.
Lubricating system. P. H. Gaskins. Nos. 1,429,233–4; Sept. 19.
Machine wrench. R. Klein and G. B. Ritzel. No. 1,429,886; Sept. 19.
Map holder. W. E. Haskell. No. 1,429,874; Sept. 19.
Massage device. J. Kercher. No. 1,429,594; Sept. 19.
Material-saving device. L. L. Goheen. No. 1,429,282; Sept. 19.
Measuring device especially for leather, Surface-. H. Thun. No. 1,429,803; Sept. 19.
Measuring instrument, Theodolite and similar angle-. I. V. Baptista. No. 1,429,555; Sept. 19.
Mechanic bench, Collapsible. H. H. Harris. No. 1,429,587; Sept. 19.
Mechanical movement. F. Müller. No. 1,429,612; Sept. 19.
Mechanical movement. G. C. Snyder. No. 1,429,654; Sept. 19.
Medical appliance. O. Henker. No. 1,429,426; Sept. 19.
Mercerizing machines, Controlling means for. F. H. Olden. No. 1,429,525; Sept. 19.
Metal-cutting machine. F. Müller. No. 1,429,611; Sept. 19.
Metal-cutting machine. F. Müller. No. 1,429,615; Sept. 19.
Metal-cutting machine. F. Müller. No. 1,429,617; Sept. 19.
Metallurgical furnace. C. C. Roller. No. 1,429,777; Sept. 19.
Meter: *See*—
Fermentation meter.
Microscope. A. Bauer. No. 1,429,557; Sept. 19.
Mill: *See*—
Blooming mill. Disk mill.
Milling cutter. F. Müller. No. 1,429,618; Sept. 19.
Milling cutter for gears. F. Müller. No. 1,429,614; Sept. 19.
Milling cutters, Making. F. Müller. No. 1,429,613; Sept. 19.
Milling cutters, Making. F. Müller. No. 1,429,616; Sept. 19.
Mixer: *See*—
Drink mixer. Feed mixer.
Moisture on transparent surfaces, Preparation for preventing accumulation of. W. B. Atwater. No. 1,429,824; Sept. 19.
Mold: *See*—
Ingot mold. Tire mold.
Molding mixture. T. Hanna. No. 1,429,586; Sept. 19.
Monotype machines for making border rules and dotted rules, Attachment for. A. C. De Nisson and F. D. Christie. No. 1,429,720; Sept. 19.
Motor: *See*—
Water motor.
Motor. L. Reichard. No. 1,429,772; Sept. 19.
Motors, Safety device for. J. Stenzel, jr. No. 1,429,655; Sept. 19.
Mowers, Seed-collector device for. G. I. Newberry. No. 1,429,294; Sept. 19.
Music sheets, Apparatus for treating. N. C. Ferris. No. 1,429,727; Sept. 19.
Nonskidding device for shoes. O. Tagliaferry. No. 1,429,259; Sept. 19.
Number plate, Illuminated. G. H. Needham. No. 1,429,758; Sept. 19.
Nut and pipe wrench, Combined. J. McGhee. No. 1,429,517; Sept. 19.
Nut bowl and cracker. B. L. Mallory. No. 1,429,444; Sept. 19.
Nuts and article made thereby, Making. H. F. Schroeder. No. 1,429,645; Sept. 19.
Oil burner. A. H. Adox. No. 1,429,215; Sept. 19.
Oil burner. A. W. Jones. No. 1,429,434; Sept. 19.
Oil burner. C. H. Lewis. No. 1,429,598; Sept. 19.
Oil burner. F. F. Miller. No. 1,429,521; Sept. 19.
Oil burner, Crude-. C. B. Ever. No. 1,429,857; Sept. 19.
Oil burner, Rotary. A. H. Ballard. No. 1,429,551; Sept. 19.
Oil cup. W. J. Frisbie. No. 1,429,418; Sept. 19.
Oil cup. H. G. Noble. No. 1,429,448; Sept. 19.
Oil, Means for burning crude. M. F. Witt. No. 1,429,478; Sept. 19.
Oils, Apparatus for cracking. W. B. D. Penniman. Nos. 1,429,622–3; Sept. 19.
Ore classifier. C. Allen. No. 1,429,480; Sept. 19.
Ore concentration. L. F. Vogt. No. 1,429,550; Sept. 19.
Orthodontic appliances, Lock for. F. Maculen and G. L. Van Allen. No. 1,429,749; Sept. 19.
Oven. A. Gussa. No. 1,429,870; Sept. 19.
Oven, Combination coal and gas. H. Lange. No. 1,429,890; Sept. 19.
Oven-loading device. A. Beckett. No. 1,429,559; Sept. 19.
Overtire. L. D. Walker. No. 1,429,659; Sept. 19.
Oxide, Making green chrome. A. L. Duval d'Adrian. No. 1,429,912; Sept. 19.
Package, Combined shipping and dispensing. J. Q. Stephens. No. 1,429,701; Sept. 19.
Pad: *See*—
Table pad.
Padlock. J. Kaczanowski. No. 1,429,883; Sept. 19.
Paper-pulp screen machine. H. T. Baker and J. D. Haskell. No. 1,429,707; Sept. 19.
Parchment paper or vulcanized fiber and making same, B. Herstein. No. 1,429,427; Sept. 19.
Pencil, Combination eyebrow. E. K. Allison. No. 1,429,823; Sept. 19.
Perforating machine. A. L. Day. No. 1,429,719; Sept. 19.
Perforating machines, Stop motion for. D. Noble. No. 1,429,447; Sept. 19.
Phenol and formaldehyde and making same, Condensation product of. W. Achtmeyer. No. 1,429,265; Sept. 19.
Phenolic condensation product and making same. W. Achtmeyer. No. 1,429,267; Sept. 19.
Photographic-film carrier. A. A. Barber. No. 1,429,270; Sept. 19.
Photographic films, Method of and apparatus for producing stereoscopic. L. F. Douglass. No. 1,429,495; Sept. 19.
Photographic-printing apparatus. H. R. Eason. No. 1,429,723; Sept. 19.
Photography. E. W. Clark. No. 1,429,715; Sept. 19.
Pin: *See*—
Cotter pin. Hairpin.
Pipe: *See*—
Furnace pipe.
Piston rings, Machine for manufacturing. J. Flammang. No. 1,429,417; Sept. 19.
Pivot. C. J. Howe. No. 1,429,881; Sept. 19.
Planer, Metal. K. T. F. Jung. No. 1,429,741; Sept. 19.
Planters, Attachment for corn. A. A. Stahl. No. 1,429,700; Sept. 19.
Planters, Marker for. B. L. Light. No. 1,429,245; Sept. 19.
Plaster receiving board. H. A. Cumfer and A. D. Stewart. No. 1,429,226; Sept. 19.
Plate heater. J. L. Scott. No. 1,429,783; Sept. 19.
Platinum and similar metals from their sands and ores, Extraction of. R. Thayer. No. 1,429,378; Sept. 19.
Playing hoop. M. A. McDonald. No. 1,429,681; Sept. 19.
Plow. C. F. Morris. No. 1,429,365; Sept. 19.
Power-mechanism trip device. I. T. Verdin. No. 1,429,468; Sept. 19.
Power-transmission mechanism. F. Wels. No. 1,429,815; Sept. 19.
Press: *See*—
Drill press. Swaging press.
Hydraulic press.
Press. W. J. Brennan. No. 1,429,221; Sept. 19.
Presses, Starting and stopping mechanism for. W. C. Stewart. No. 1,429,302; Sept. 19.
Pressing machine. F. J. Couch. No. 1,429,409; Sept. 19.
Pressing machine. S. Friedman. No. 1,429,865; Sept. 19.
Printing presses, Pneumatic paper control for. C. C. Schutte. No. 1,429,301; Sept. 19.
Propelling apparatus, Walking-motion. V. G. Anderson. No. 1,429,551; Sept. 19.
Puller: *See*—
Bearing-cup puller.
Pulley. A. Davidson. No. 1,429,491; Sept. 19.
Pulverizer, Rotary. W. H. Fulcher. No. 1,429,333; Sept. 19.
Pump, Deep-well. W. F. Budlong. No. 1,429,487; Sept. 19.
Pump, Grease. J. F. Ring, Jr. No. 1,429,255; Sept. 19.
Rack: *See*—
Unloading rack.
Radiator cap. E. E. Mazzullo. No. 1,429,751; Sept. 19.
Radiator core. J. A. Kuenz. No. 1,429,440; Sept. 19.
Radiator core. V. Schreiner. No. 1,429,644; Sept. 19.
Radiator holder. J. L. Fiscus. No. 1,429,575; Sept. 19.
Radiator support. A. Kehm. No. 1,429,742; Sept. 19.
Radiator with adjustable control. G. F. Dodge. No. 1,429,413; Sept. 19.
Radiosignaling system. E. C. Hanson and E. T. Jones. No. 1,429,240; Sept. 19.
Rail joint. J. Hruska. No. 1,429,431; Sept. 19.
Rail joint. D. Smith. No. 1,429,543; Sept. 19.
Rail joint, Frictionless. O. J. Lentz. No. 1,429,895; Sept. 19.
Railway switches, Electric heater for. J. B. Feder. No. 1,429,726; Sept. 19.
Railway weeder and reshouldering machine. P. A. Kelster. No. 1,429,680; Sept. 19.
Railways, Recording device for. H. Heyn and F. Zimmermann. No. 1,429,878; Sept. 19.
Razor, Face-illuminating. L. E. Norquist. No. 1,429,760; Sept. 19.
Receptacle and making same, Metallic. H. M. Smith. No. 1,429,698; Sept. 19.

Recoil check. C. A. Nelson. No. 1,429,619; Sept. 19.
Record cabinet. J. H. Rand, jr. No. 1,429,628; Sept. 19.
Reel: *See*—
Film reel.
Refrigerator. A. Simons. No. 1,429,649; Sept. 19.
Register attachment. D. F. Tynan. No. 1,429,811; Sept. 19.
Rheostat. E. C. Fasoldt. No. 1,429,858; Sept. 19.
Rim clip, Detachable-. W. C. Hurst and P. J. Dwyer. No. 1,429,736; Sept. 19.
Rim, Demountable. J. T. Clark. No. 1,429,901; Sept. 19.
Ring: *See*—
Dental casting ring.
Rings, Machine for enlarging. E. T. Goldberg. No. 1,429,502; Sept. 19.
Road maintainer. D. B. Reardon. No. 1,429,768; Sept. 19.
Road recorder and indicator. T. J. Smulski. No. 1,429,374; Sept. 19.
Rock drill. W. A. Smith. No. 1,429,786; Sept. 19.
Roller surfacing or polishing machine. L. Bogi. Nos. 1,429,316–17; Sept. 19.
Roofing and weatherproofing material, Bituminous sheet. C. N. Forrest. No. 1,429,728; Sept. 19.
Rope socket. W. D. Shaffer. No. 1,429,371; Sept. 19.
Rubber heel. G. Bormann. No. 1,429,673; Sept. 19.
Rubber-heel molds, Apparatus for placing washers in. H. F. Maranville. No. 1,429,859; Sept. 19.
Rule, Calculating guy. J. W. Wright. No. 1,429,264; Sept. 19.
Sample taker. B. Brayshaw. No. 1,429,710; Sept. 19.
Sanitary apparatus, Cover for the seats of. E. L. Eckerlein. No. 1,429,724; Sept. 19.
Sand and gravel loader. J. M. Shamp. No. 1,429,372; Sept. 19.
Sash-latching device, Window-. H. R. Ritchie. No. 1,429,256; Sept. 19.
Sash lock. W. A. Laufer and A. Kufta. No. 1,429,891; Sept. 19.
Saw. E. Tjenall. No. 1,429,549; Sept. 19.
Scale, Weighing. L. C. Wetzel. No. 1,429,662; Sept. 19.
Scales, Quick-weighing attachment for. M. Maurer. No. 1,429,362; Sept. 19.
Screen: *See*—
Window screen.
Screw driver. C. M. Flodin. No. 1,429,861; Sept. 19.
Scutching machine for flax and other fibrous materials. G. Michot. No. 1,429,753; Sept. 19.
Seesaw. E. M. Maxwell and I. K. Hearn. No. 1,429,289; Sept. 19.
Sealing composition. E. L. Coddington. No. 1,429,407; Sept. 19.
Seat: *See*—
Car seat. Toilet seat.
Seat and bed, Combined. F. C. Williams. No. 1,429,390; Sept. 19.
Seat convertible into bed, Folding. R. Wedemann. No. 1,429,388; Sept. 19.
Seating appliance. F. G. Parker. No. 1,429,249; Sept. 19.
Separators, Regulator for centrifugal. H. Feldmeier. No. 1,429,331; Sept. 19.
Sewing machine. W. C. Meyer. No. 1,429,520; Sept. 19.
Sewing machine, Straw-braid-. R. Becker. No. 1,429,399; Sept. 19.
Shaft coupling. P. N. Geiger. No. 1,429,580; Sept. 19.
Shaft coupling, Universal. G. Barker. No. 1,429,271; Sept. 19.
Sheet-controlling mechanism. A. P. Gustafson. Nos. 1,429,905–6; Sept. 19.
Sheet-metal building. H. Bloedow and J. Schaffner. No. 1,429,400; Sept. 19.
Sheet, Ruled. C. A. Brittain. No. 1,429,485; Sept. 19.
Shell, Shotgun. C. A. Shaeffer. No. 1,429,646; Sept. 19.
Shelving. C. M. Coutts. No. 1,429,846; Sept. 19.
Shingle bundles, Cover board for. C. S. Bird. No. 1,429,836; Sept. 19.
Ship's light. T. Utley. No. 1,429,879; Sept. 19.
Shirts, Pressing. C. L. Braley. No. 1,429,401; Sept. 19.
Shock absorber. F. L. Spring. No. 1,429,699; Sept. 19.
Shock absorber and rebound snubber for vehicle springs, Combined. G. J. Oltsch. No. 1,429,867; Sept. 19.
Shock-absorbing mechanism, Friction. W. A. Geiger. No. 1,429,581; Sept. 19.
Shock-absorbing mechanism, Friction. J. F. O'Connor. Nos. 1,429,687–8; Sept. 19.
Shock-forming machine. F. McCann. No. 1,429,608; Sept. 19.
Shoe-lacing means. S. Trawinski. No. 1,429,657; Sept. 19.
Shoe-polishing device. F. H. Schlottmann. No. 1,429,642; Sept. 19.
Shoe stretcher. H. Waters. No. 1,429,661; Sept. 19.
Shoes during toe softening, Protecting. J. B. Hadaway. No. 1,429,237; Sept. 19.
Shortening agent. C. Ellis. No. 1,429,573; Sept. 19.
Sifter, Flour. J. Brewer. No. 1,429,565; Sept. 19.
Sifter top. H. W. Jones. No. 1,429,590; Sept. 19.
Sifter top, Disintegrator. H. W. Jones. No. 1,429,591; Sept. 19.
Sign. J. C. Bell. No. 1,429,273; Sept. 19.
Sign, Display. M. Cole. No. 1,429,408; Sept. 19.
Sign, Roadside. G. W. and E. Traub. No. 1,429,805; Sept. 19.
Signal: *See*—
Warning signal.
Signaling system, Electric. S. B. Hess. No. 1,429,243; Sept. 19.
Signaling system, Multiplex. H. S. Osborne. No. 1,429,248; Sept. 19.
Silage cover. B. B. Perkins. No. 1,429,624; Sept. 19.
Siser and grader. A. M. O'Quinn. No. 1,429,764; Sept. 19.
Slack adjuster. W. H. Sauvage. No. 1,429,640; Sept. 19.
Sled brake. W. S. Shiffer and V. L. Zwally. No. 1,429,648; Sept. 19.
Slicer, Vegetable. W. R. McClure. No. 1,429,896; Sept. 19.
Smoke-screen producer. J. H. Hammond, jr. No. 1,429,238; Sept. 19.
Snap switch. N. Feinen. No. 1,429,860; Sept. 19.
Snow vehicle. E. N. Rowe. No. 1,429,636; Sept. 19.
Solder, Fluxed. G. L. Van Allen. No. 1,429,703; Sept. 19.
Soldering iron. A. Plochocki. No. 1,429,626; Sept. 19.
Solids from liquids, Apparatus for separating. C. Bouillon. No. 1,429,320; Sept. 19.
Solvent recovery, etc., Adsorption apparatus for. R. B. Etter. No. 1,429,856; Sept. 19.
Spark plug. D. A. Abbott. No. 1,429,821; Sept. 19.
Spark-plug attachment. S. Donaldson. No. 1,429,329; Sept. 19.
Spark-plug holder. G. O. Zimmerman. No. 1,429,669; Sept. 19.
Spark-producing mechanism. W. J. Frisbie. Nos. 1,429,419–20; Sept. 19.
Spectacles, Attachment for. R. P. Elmore. No. 1,429,854; Sept. 19.
Speed-regulating means. T. Fletcher. No. 1,429,576; Sept. 19.
Spinning, doubling, twisting and like machines, Doffing apparatus for. A. and J. Stell. No. 1,429,375; Sept. 19.
Springs, Making multiple-piece. J. F. O'Connor. No. 1,429,690; Sept. 19.
Spring structure. E. F. Fromm. No. 1,429,279; Sept. 19.
Spur and helical wheels, Machine-cutting. C. Barth. No. 1,429,398; Sept. 19.
Square and miter, Adjustable. R. R. Pafford. No. 1,429,765; Sept. 19.
Stamp-affixing machine. E. F. Bowen and E. J. Scott. No. 1,429,321; Sept. 19.
Stand: *See*—
Cigarette stand. Tobacco-pipe stand.
Steering wheels, Electric heater for. E. S. Teadell. No. 1,429,799; Sept. 19.
Steering-wheel lock. L. Ronca. No. 1,429,696; Sept. 19.
Still, Water. L. J. B. Schnug. No. 1,429,541; Sept. 19.
Stock cutting machine. E. E. Winkley. No. 1,429,310; Sept. 19.
Stock waterer. J. E. W. and C. E. Richards. No. 1,429,535; Sept. 19.
Stones, Press for the manufacture of. C. H. Schol. No. 1,429,459; Sept. 19.
Storage battery, Electric. M. Lechner. (Reissue.) No. 15,457; Sept. 19.
Storage-battery electrolyte. R. E. Banks. No. 1,429,830; Sept. 19.
Storage device, Revolving. A. H. Jones. No. 1,429,435; Sept. 19.
Strands, Winding mechanism for. C. J. De Coster. No. 1,429,493; Sept. 19.
Strap: *See*—
Jock strap.
String-instrument key. A. Anagnost. No. 1,429,391; Sept. 19.
Sulphur, Manufacture of finely-divided. A. Mittasch and F. Winkler. No. 1,429,522; Sept. 19.
Superheater boiler. A. Cotton. No. 1,429,717; Sept. 19.
Support. O. A. Savage. No. 1,429,778; Sept. 19.
Support and marking same. W. J. Robinson. No. 1,429,776; Sept. 19.
Swaging press. K. Böhle. No. 1,429,838; Sept. 19.
Switch: *See*—
Electric service switch. Snap switch.
Switch. C. F. Cuno. No. 1,429,326; Sept. 19.
Table: *See*—
Chiropractic table.
Table pad. M. Campbell. No. 1,429,225; Sept. 19.
Tableware, Inflammable composition for. G. Martin. No. 1,429,360; Sept. 19.
Tag. C. C. Tolg. No. 1,429,465; Sept. 19.
Talking-machine cabinet. R. A. Boswell. No. 1,429,839; Sept. 19.
Talking-machine records, Cabinet for containing. J. Green. No. 1,429,839; Sept. 19.
Talking machines, Repeating and stopping device for. F. B. Mitchell. No. 1,429,755; Sept. 19.
Tank: *See*—
Flush tank.
Tanning process. L. and G. Dufour. No. 1,429,851; Sept. 19.
Tap and die, Adjustable. T. J. Dowd. No. 1,429,850; Sept. 19.
Teeth, Facing pin for artificial. F. Maculen and G. L. Van Allen. No. 1,429,748; Sept. 19.
Telephone system. J. F. Hayden. No. 1,429,241; Sept. 19.
Telephonic repeater. C. Robinson and R. M. Chamney. No. 1,429,634; Sept. 19.
Telpherage system. J. Lamb. No. 1,429,888; Sept. 19.

Textile fibers, Combing device for. A. E. Meyer. No. 1,429,519; Apr. 19.
Theaters, Advertising curtain for. C. F. Thompson. No. 1,429,802; Sept. 19.
Theft from closed compartments, Apparatus for preventing. L. E. Vining. No. 1,429,306; Sept. 19.
Therapeutic device. H. D. McFadden. No. 1,429,443; Sept. 19.
Thermal relay. L. E. Warner. No. 1,429,660; Sept. 19.
Thermostat. M. A. Wicks. No. 1,429,476; Sept. 19.
Thistle eradicator. O. Murk. No. 1,429,293; Sept. 19.
Throttle-control mechanism. P. M. Payne. No. 1,429,528; Sept. 19.
Ticket holder and dispenser. F. Dudek. No. 1,429,277; Sept. 19.
Tie holder. I. Bernstein. No. 1,429,560; Sept. 19.
Tie carrier. A. W. Woodward. No. 1,429,667; Sept. 19.
Tire changer and carrier. A. J. West. No. 1,429,817; Sept. 19.
Tire mold. M. T. Barney. No. 1,429,831; Sept. 19.
Tire-mounting rim. W. B. Lucas. No. 1,429,515; Sept. 19.
Tire-rimming apparatus. A. H. Harris. No. 1,429,733; Sept. 19.
Tire-stem pressure gages, Transparent cap for. A. Badowski. Nos. 1,429,313–15; Sept. 19.
Tires, Antiskid device for vehicle. C. O. Bode. No. 1,429,837; Sept. 19.
Tires for vehicle wheels and the like, Process and apparatus for producing bodies under tension to be used as. D. Maggiora. No. 1,429,605; Sept. 19.
Tires, Inner tube for pneumatic. N. G. Warth. No. 1,429,385; Sept. 19.
Tires, Manufacturing cushion. H. M. Lambert. No. 1,429,512; Sept. 19.
Tires, Mold for transverse and annular pneumatic. L. A. Subers. No. 1,429,377; Sept. 19.
Tires, Nonskid device for automobile. R. H. and F. H. Bachman. No. 1,429,825; Sept. 19.
Titanium complex and producing same. H. H. Buckman. No. 1,429,841; Sept. 19.
Tobacco-hanging machine. L. J. Paylor. No. 1,429,250; Sept. 19.
Tobacco-pipe stand. W. E. Edwards. No. 1,429,228; Sept. 19.
Toilet seat, Sanitary. H. S. Crayton. No. 1,429,490; Sept. 19.
Tongs. Z. Watts. No. 1,429,813; Sept. 19.
Tool. J. L. Dyer and H. T. Macneil. No. 1,429,852; Sept. 19.
Tool-grinding machine. F. L. Wächtler. No. 1,429,308; Sept. 19.
Tool holder. P. N. Frease. No. 1,429,500; Sept. 19.
Tooth anchorage, Artificial-. J. Arkin. No. 1,429,552; Sept. 19.
Top notch and runner. C. L. Baker. No. 1,429,828; Sept. 19.
Toy. W. T. Davis. No. 1,429,571; Sept. 19.
Toy. T. Odarka. No. 1,429,761; Sept. 19.
Toy. W. C. Stanke. No. 1,429,789; Sept. 19.
Toy circus. H. A. Vaughan. No. 1,429,382; Sept. 19.
Toy, Figure wheeled. W. J. Hoffmann. No. 1,429,345; Sept. 19.
Toy house, Collapsible. G. J. Hanson. No. 1,429,871; Sept. 19.
Toy, Mechanical. J. V. Irenius. No. 1,429,738; Sept. 19.
Toy, Sand. C. C. Muldner, jr. No. 1,429,684; Sept. 19.
Tractor-frame suspension. E. E. Wickersham. Nos. 1,429,473–4; Sept. 19.
Tractor main frame and suspension. E. E. Wickersham. No. 1,429,475; Sept. 19.
Tractor performance, Calculator for. A. R. Squyer. No. 1,429,463; Sept. 19.
Tractors, Cultivator attachment for. O. F. Heer. No. 1,429,875; Sept. 19.
Tractors, Main frame and suspension for. E. F. Norelius. No. 1,429,449; Sept. 19.
Trailer. C. S. Hoffman. No. 1,429,734; Sept. 19.
Train stop, Automatic. C. A. Kissel. No. 1,429,885; Sept. 19.
Transmission mechanism. M. V. Brown. No. 1,429,323; Sept. 19.
Transmission mechanism. I. Hupp. No. 1,429,349; Sept. 19.
Transmissions, Oiling system for. W. Turnbull. No. 1,429,466; Sept. 19.
Trough supports, Shank for eaves-. M. R. Berger. No. 1,429,482; Sept. 19.
Trousers, Waistband for. C. Thero. No. 1,429,800; Sept. 19.
Truck, Dumping. F. Zardinoni. No. 1,429,820; Sept. 19.
Truck, Hand. W. F. Irrgang. No. 1,429,432; Sept. 19.
Trucks, Automatic ball-bearing side bearing for railway. G. M. Hyndes. No. 1,429,737; Sept. 19.
Trucks, Lock for church. A. H. Dolge. No. 1,429,849; Sept. 19.
Tubes, Apparatus for producing hooping effects in metal. E. Schneider. No. 1,429,539; Sept. 19.
Tubing machine. D. F. Domizi. No. 1,429,328; Sept. 19.
Tunnels and the like, Machine for building. M. R. Sheen. No. 1,429,647; Sept. 19.
Turbine. C. W. Dake. No. 1,429,570; Sept. 19.
Turbine, Multiple-stage pressure-stage. J. Kerrer. No. 1,429,508; Sept. 19.
Turnover mechanism. G. J. Daniell. No. 1,429,327; Sept. 19.
Type-casting machines, Footlift to raise the assembling elevators of. J. G. Clark. No. 1,429,844; Sept. 19.
Typewriting machine. W. P. Gebrett. No. 1,429,386; Sept. 19.
Typewriting machine for music. L. Fortoni. No. 1,429,862; Sept. 19.
Typewriting machines, Column-adjusting device for. H. Grützmann. No. 1,429,341; Sept. 19.
Typewriters, Multi-colored-ribbon shift for. M. Garbell. No. 1,429,678; Sept. 19.
Unloading rack. A. L. Werts. No. 1,429,262; Sept. 19.
Uppers over lasts, Machine for shaping. D. A. Moyer. No. 1,429,291; Sept. 19.
Urea, Manufacturing. C. Bosch and W. Meiser. No. 1,429,483; Sept. 19.
Vacuum cleaner. E. A. Reeves. Nos. 1,429,530–3; Sept. 19.
Vacuum-cleaner nozzles, Means for adjusting. A. A. Warner. No. 1,429,383; Sept. 19.
Vacuum cleaning and dusting apparatus. G. O. Lehmann. No. 1,429,893; Sept. 19.
Valve-grinding machine. C. Diehl. No. 1,429,494; Sept. 19.
Valve-operating mechanism for flush tanks. W. W. Templet. No. 1,429,798; Sept. 19.
Valve or plug for oil containers. B. H. Carlile. No. 1,429,566; Sept. 19.
Vegetable cutter. E. Human. No. 1,429,348; Sept. 19.
Vehicle brake. W. M. Raymond. No. 1,429,771; Sept. 19.
Vehicle for transporting heavy gun barrels and in the adaptation of guns for the use of such vehicle, Two axled. E. Schneider. No. 1,429,540; Sept. 19.
Vehicle, Side-dumping. C. A. Davids. No. 1,429,847; Sept. 19.
Vehicle spring construction. F. V. Cooke. No. 1,429,902; Sept. 19.
Vehicle suspension. A. Davidson. No. 1,429,411; Sept. 19.
Vehicle wheel, Quick-detachable. C. S. Ash. No. 1,429,394; Sept. 19.
Vehicle wheel, Pneumatic. G. Lentz. No. 1,429,894; Sept. 19.
Vehicle wheel, Resilient. F. B. Snyder. No. 1,429,787; Sept. 19.
Vehicles of the motor-driven type, System of identification of. F. W. Hough. No. 1,429,847; Sept. 19.
Vehicles, Mud or splash guard for. W. Fairclough. No. 1,429,496; Sept. 19.
Vehicles, Traction device for. E. Helm. No. 1,429,589; Sept. 19.
Vending machine. E. E. Hartman. No. 1,429,505; Sept. 19.
Vending machine, Coin-controlled. J. Riedmueller. No. 1,429,633; Sept. 19.
Wagon and automobile dump, Combined. F. J. Leech and W. H. Myers. No. 1,429,892; Sept. 19.
Wagon-pole extension. C. C. Primus. No. 1,429,769; Sept. 19.
Wardrobe, Knockdown. H. E. Richmond. No. 1,429,456; Sept. 19.
Warmer, Hand. J. C. Barrow. No. 1,429,897; Sept. 19.
Warning signal. E. Auñero. No. 1,429,217; Sept. 19.
Water heater, Electric. M. W. Hornsby. No. 1,429,735; Sept. 19.
Water-heating drum. A. T. Fowles. No. 1,429,863; Sept. 19.
Water motor. D. A. Carmichael. No. 1,429,842; Sept. 19.
Water-tube boiler. A. Cotton. No. 1,429,716; Sept. 19.
Watering appliance. R. B. Glidden. No. 1,429,584; Sept. 19.
Wax-sweating apparatus. C. S. Dickens, T. E. Schley, and J. W. Newton. No. 1,429,721; Sept. 19.
Well fishing tool, Deep-. J. A. Wolfe. No. 1,429,263; Sept. 19.
Wheaten, Blending. C. G. Harrel. No. 1,429,504; Sept. 19.
Wheel: *See*—
Resilient wheel.
Vehicle wheel.
Wheel-spoke tightener. L. J. Wilson. No. 1,429,706; Sept. 19.
Window. D. A. MacAskill. No. 1,429,897; Sept. 19.
Window screen. J. D. Hippolitus. No. 1,429,344; Sept. 19.
Window-screen mounting. G. W. Getsinger. No. 1,429,337; Sept. 19.
Window silencer. H. P. Hanson. No. 1,429,872; Sept. 19.
Windshield. J. G. Bruening. No. 1,429,223; Sept. 19.
Wire and wire ropes, Device for stretching. O. Stüttgen. No. 1,429,796; Sept. 19.
Wire bending and knotting machine. A. Rhenstrom. No. 1,429,253; Sept. 19.
Wire-bending machine. A. T. Weiss. No. 1,429,814; Sept. 19.
Wire-line socket. C. V. Angenstein. No. 1,429,312; Sept. 19.
Wire rope, Compound. G. Pyburn. No. 1,429,529; Sept. 19.
Wire stitching or stapling machines, Feeding mechanism for. D. A. Flavell. No. 1,429,230; Sept. 19.
Wood and other porous material, Treating. W. V. Lander. No. 1,429,288; Sept. 19.
Wool, Reddish-violet monoazo dye for. H. Schweitzer. No. 1,429,782; Sept. 19.
Wrench: *See*—
Machine wrench.
Wrench. M. Saloun. No. 1,429,639; Sept. 19.
Wrench. J. Van Horn. No. 1,429,812; Sept. 19.
Wrench. H. W. Watson. No. 1,429,386; Sept. 19.
Wringer: *See*—
Clothes wringer.
Wringer. B. S. McCutchen. No. 1,429,246; Sept. 19.
Zinc from complex ores, Recovering. J. T. Ellsworth. No. 1,429,330; Sept. 19.

ALPHABETICAL LIST OF DESIGNS.

Bottle. J. A. Maier. No. 61,503; Sept. 19.
Bottle. L. B. Newell. No. 61,506; Sept. 19.
Candlestick. A. J. Flauder. Nos. 61,494–7; Sept. 19.
Display cabinet. H. Morris. No. 61,504; Sept. 19.
Gas heater. E. Zettler. No. 61,514; Sept. 19.
Gramophone needles, Container for. C. West. No. 61,512; Sept. 19.
Jar. L. B. Newell. No. 61,505; Sept. 19.
Lamp. J. A. Lipscomb. No. 61,502; Sept. 19.
Lamp standard. E. B. Pike. Nos. 61,507–8; Sept. 19.
Lighting fixture. H. W. Grossman. No. 61,500; Sept. 19.
Lighting-fixture arm. H. W. Grossman. No. 61,499; Sept. 19.
Lighting-fixture arm. F. M. Poritz. No. 61,509; Sept. 19.
Lighting-fixture pedestal. F. Roettges. Nos. 61,510–11; Sept. 19.
Phonograph cabinet. C. Hine. No. 61,501; Sept. 19.
Tire. W. D. Carnal. No. 61,493; Sept. 19.
Tire. H. A. Githens. No. 61,498; Sept. 19.
Vehicles, Direction indicator for. T. C. Anthony. No. 61,492; Sept. 19.
Watchcase pendant. L. M. Williams. No. 61,513; Sept. 19.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Antiseptic solution. Henry S. Wampole Company. No. 159,147; Sept. 19.
Aprons, dresses, and nightgowns and children's play suits, Women's and children's. American Garment Co. No. 158,880; Sept. 19.
Bags, Burlap and cotton. Wertheimer Bag Company. No. 159,240; Sept. 19.
Bags, Hand. Dexter Manufacturing Co. No. 158,984; Sept. 19.
Bags, Ladies' hand. I. Warschauer. No. 159,148; Sept. 19.
Bags, Metal mesh. Whiting & Davis Company. No. 159,154; Sept. 19.
Bath robes. Herzog & Kramer. No. 158,981; Sept. 19.
Bed springs. Union Bed and Spring Company. No. 159,134; Sept. 19.
Beds, bed springs, cots, mattresses, pillows, etc., Iron. National Mattress Co. No. 159,046; Sept. 19.
Bell and electric-lamp socket used as a signal device, Combined. L. A. Freedman. No. 159,185; Sept. 19.
Belting, Leather. Chas. A. Schieren Company. No. 159,218; Sept. 19.
Benches. M. C. Bachelier. No. 158,887; Sept. 19.
Beverages sold as soft drinks and sirups and concentrates for making same. Citrus Products Co. No. 158,917; Sept. 19.
Beverages sold as soft drinks and sirups for making same. J. W. Poole. No. 159,062; Sept. 19.
Beverages sold as soft drinks and sirups therefor. J. H. Starbird. No. 159,217; Sept. 19.
Blood purifiers, tonics, and conditioners for horses, cows, etc. Day, Son & Hewitt, Limited. No. 158,931; Sept. 19.
Blouses, bloomers, skirts, knickers, etc., for females. Kenilworth Manufacturing Co. No. 159,002; Sept. 19.
Blue or bluing. Laundry. Scherer, Burnell & Scherer, Inc. No. 159,086; Sept. 19.
Booklets and small text cards. Rhodes-Marden Corporation. No. 159,069; Sept. 19.
Books, booklets, pamphlets, catalogues, and similar publications. Nourse Company. No. 150,058; Sept. 19.
Books, Printed. Matthew Bender & Company. No. 158,892; Sept. 19.
Boots and shoes. J. W. Carter & Co. No. 159,174; Sept. 19.
Boots and shoes, Leather. Wm. Filene's Sons Company. No. 158,950; Sept. 19.
Boots and shoes, Leather. Knipe Bros., Inc. No. 159,007; Sept. 19.
Boots and shoes. Wilson Process, Inc. No. 159,156; Sept. 19.
Boots and shoes, Women's. Gregory & Read Company. No. 158,969; Sept. 19.
Brassières. Wear Well Brassiere Co. No. 159,238; Sept. 19.
Brushes and brooms, whisk brooms, toothbrushes, hairbrushes, etc., Floor. James McCreery & Company. No. 159,025; Sept. 19.
Buckles and buckles for men's and boys' clothing, Suspender. Alma Manufacturing Co. of Baltimore City. No. 158,878; Sept. 19.
Buffing and polishing compositions. Matchless Metal Polish Co. No. 159,034; Sept. 19.
Buffing compounds. American Tripoli Company. No. 158,881; Sept. 19.
Candles. White Tar Company. No. 159,242; Sept. 19.
Candy. International Corn Products Corporation. No. 159,191; Sept. 19.
Candy. New England Confectionery Company. No. 159,048; Sept. 19.
Candy. Schwarz & Son. No. 159,092; Sept. 19.
Canned foods of smoked or salted fish or herring. A/S United Sardine Factories. No. 159,135; Sept. 19.
Canned fruits and vegetables. G. Di Salvo & A. Patera. No. 158,936; Sept. 19.
Caps, Men's. A. D. Feldstein. No. 159,182; Sept. 19.
Caps, Men's and boys'. Leon Wallace & Sons. No. 159,237; Sept. 19.
Caps, Men's and boys'. Town Talk Manufacturing Co. No. 159,130; Sept. 19.
Cars, Dump. Clark Car Company. No. 159,175; Sept. 19.
Cartoons, Series of. George Matthews Adams Service. No. 158,962; Sept. 19.
Chairs and tables for general use. W. Heerling. No. 158,978; Sept. 19.
Chairs for children, High. Komfy Products Company, No. 159,009; Sept. 19.
Chairs, Household, office, and factory. Nichols & Stone Company. No. 159,051; Sept. 19.
Chairs, rockers, tables, beds, dressers, desks, and fiber office furniture, Household. American Chair Company. No. 158,879; Sept. 19.
Chemicals. Porter Chemical Company. No. 159,063; Sept. 19.
Chocolate, cocoa, and candies. Brewster Sons Company. No. 158,905; Sept. 19.
Chocolate, Prepared edible. Knickerbocker Chocolate Co. No. 159,194; Sept. 19.
Cigars. The Fair. No. 158,946; Sept. 19.
Cleaning compound, Liquid. F. Valcour. No. 159,168; Sept. 19.
Cleanser and polish for pianos, automobiles, etc., Liquid. G. F. Ziegler. No. 159,161; Sept. 19.
Cleanser for industrial, household, and all general cleaning. Trinity Chemical Corporation. No. 159,132; Sept. 19.
Clothing. I. Fain. No. 159,180; Sept. 19.
Clothing, etc., Ladies' ready-to-wear. W. H. Rogers Co. No. 159,076; Sept. 19.
Clothing, Certain articles of. Finger Cahn Co. No. 158,952; Sept. 19.
Clothing, Certain articles of. Franklin Simon & Co. No. 158,967; Sept. 19.
Clothing, Certain articles of. Franklin Simon & Co. No. 159,103; Sept. 19.
Clothing, Certain articles of. James Lees and Sons Company. No. 159,016; Sept. 19.
Clothing, Certain articles of. J. A. Migel Inc. No. 159,037; Sept. 19.
Clothing, Certain articles of. Sonny Blouse Co. No. 159,106; Sept. 19.
Clothing, Certain articles of. Utica-Duxbak Corporation. No. 159,233; Sept. 19.
Clothing, Infants' and children's. Taylor Bramley Company. No. 159,232; Sept. 19.
Clothing, Women's, misses', children's, and infants'. Little Duchess Dress Co. No. 159,020; Sept. 19.
Coal. Beatty Coal Co. No. 159,166; Sept. 19.
Coal, Composition for the treatment of fuel. W. A. Robeson. No. 159,075; Sept. 19.
Coats and suits, women's dresses, men's trousers and work shirts, Ladies', men's, and boys'. Apparel Products Co. No. 158,884; Sept. 19.
Collars, Men's. C. W. Ferguson Collar Co. No. 159,183; Sept. 19.
Combs. Stewart & Holmes Drug Co. No. 159,124; Sept. 19.
Corn meal. Blakely Milling Co. No. 158,898; Sept. 19.
Corsets. George C. Batcheller & Co. No. 158,890; Sept. 19.
Corsets. F. P. Hoy, Incorporated. Nos. 158,987-8; Sept. 19.
Corsets. Rite Form Corset Co. No. 159,078; Sept. 19.
Corsets, corset waists, brassières, etc. H & W Company. No. 158,971; Sept. 19.
Corsets, Flap attachments for. Royal Worcester Corset Company. No. 159,214; Sept. 19.
Cotton piece goods. Minot, Hooper & Co. No. 159,039; Sept. 19.
Cotton piece goods. Passaic Print Works. No. 159,210; Sept. 19.
Cotton piece goods. R. A. Suffern. No. 159,127; Sept. 19.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 159,047; Sept. 19.
Cottonseed meal for use as a fertilizer. California Cotton Oil Company. No. 158,912; Sept. 19.
Cough lozenges and sirup and compound for treatment of coughs. Vienna Medical Company. No. 159,143; Sept. 19.
Cream, Shaving. H. Viscardi. No. 159,235; Sept. 19.
Creams, toilet powders, shampoos, etc., Skin-cleansing and toilet. B. F. Darneille. No. 158,929; Sept. 19.
Caps and hats for men, women, and children. Seattle Cap Manufacturing Co. No. 159,094; Sept. 19.
Cuffs and shirts. Sherwin-Spinner Company. No. 159,098; Sept. 19.
Davenports. Royal Easy Chair Corporation. No. 159,078; Sept. 19.
Dental toothpicks, Medicated. M. G. Labbee. No. 159,011; Sept. 19.
Desks and office tables. Hoosier Desk Company. No. 158,984; Sept. 19.
Dresses. Jesse Woolf & Co. No. 159,159; Sept. 19.
Dresses and cloaks, Ladies' and children's. A. Meyer. No. 159,203; Sept. 19.
Dresses for ladies and girls. Herman Weiss Co. No. 159,151; Sept. 19.
Dress panels. La Grace Dress Panel Manufacturing Co. No. 159,013; Sept. 19.
Dresses, rompers, creepers, and suits, Children's. Rosenau Bros. Inc. No. 159,077; Sept. 19.
Dresses, Women's house and street. Hannaford Company. No. 158,974; Sept. 19.
Dressings and dry cleaners used on fabrics, leathers, etc. Venus Arch-Support Company. No. 159,141; Sept. 19.
Dyestuffs. Jennings & Company. No. 158,995; Sept. 19.
Egg-case fillers. Creamery Package Mfg. Company. No. 158,926; Sept. 19.
Fertilizers. H. D. Levan. No. 159,018; Sept. 19.
Filler, stovepipe enamel, asphalt roof paint, and tinners' red roof paint, Crack. Rutland Fire Clay Co. No. 159,079; Sept. 19.
Firearms. Orbea Hermanos. No. 158,980; Sept. 19.

Fire-extinguishing composition. J. B. Miller. No. 159,038; Sept. 19.
Fishing tackle, Certain. Winchester Repeating Arms Co. No. 159,157; Sept. 19.
Flour, Wheat. Texas Star Flour Mills. No. 159,129; Sept. 19.
Furniture and equipment, Certain school. Standard School Equipment Co. No. 159,111; Sept. 19.
Furniture, Certain household and office. Nunner and Ashton Company. No. 159,054; Sept. 19.
Furniture, Certain store. Majestic Manufacturing Company. No. 159,031; Sept. 19.
Furniture, Household, office, and porch. Loux Sons. No. 159,022; Sept. 19.
Furniture, Printers'. Hamilton Manufacturing Company. No. 158,973; Sept. 19.
Furniture, Reed. Barker Bros. Inc. No. 159,164; Sept. 19.
Furs, Prepared. H. Silbert. No. 159,102; Sept. 19.
Garment bags, Moth and dust proof. Ever Ready Garment Bag Co. No. 158,945; Sept. 19.
Garments, Sleeping. Steiner & Son, Inc. No. 159,227; Sept. 19.
Gasoline intensifier. Clinton Chemical Company. No. 158,921; Sept. 19.
Gloves and mittens, Fabric. Boss Manufacturing Company. Nos. 158,902–3; Sept. 19.
Gloves. Improved Reversible Glove Co. No. 158,989; Sept. 19.
Gloves, Fabric. Goldenberg's. No. 158,965; Sept. 19.
Gloves, Fabric. Goldenberg's. No. 159,186; Sept. 19.
Gloves, Fabric. Wimelbacher & Rice. No. 159,243; Sept. 19.
Gloves, Leather and fabric. Steinberger Bros. Lobl Co. Nos. 159,122–3; Sept. 19.
Gowns, frocks, tailored suits, and furs for women. H. Milgrim & Bros. Inc. No. 159,205; Sept. 19.
Greases, oils, etc. Standard Oil Company (Incorporated in New Jersey). No. 159,110; Sept. 19.
Gum, Chewing. Short & Son Co. No. 159,101; Sept. 19.
Hair nets. Meyer & Strompen. No. 159,036; Sept. 19.
Hair nets. Parisfyle Novelty Co. No. 159,059; Sept. 19.
Hair restorer. B. Logar. No. 159,021; Sept. 19.
Hair restorers. J. W. Hornsey. No. 158,985; Sept. 19.
Hair wavers, curlers, and crimpers. L. M. Garrity & Co. No. 158,960; Sept. 19.
Hams, bacon, and lard. Hately Brothers Company. No. 158,975; Sept. 19.
Hams, bacon, lard, frankfurters, etc. Roselyn Packing Co. No. 159,213; Sept. 19.
Harness hardware. John Dewsbury & Son, Limited. No. 158,933; Sept. 19.
Harness, saddles, and horse collars. Hess and Hopkins Leather Company. No. 159,189; Sept. 19.
Hats and caps. Bell Cap Company. No. 158,891; Sept. 19.
Hats and caps. Kaplan, Scheuerle & Doyne. No. 158,999; Sept. 19.
Hats and caps, Men's. Graf-Rosen Co. No. 158,967; Sept. 19.
Healing compound for sores and wounds. Gadomoski Bros. No. 158,959; Sept. 19.
Heaters and furnaces, Warm-air. Success Heater and Manufacturing Company. Nos. 159,230–1; Sept. 19.
History of the United States, Series of volumes of epochal. Yale University Press. No. 159,160; Sept. 19.
Hooks and eyes, hook and eye tape, and safety pins. De Long Hook and Eye Company. No. 158,932; Sept. 19.
Horseshoes. Giant Grip Mfg. Co. No. 158,963; Sept. 19.
Hose, Silk. Largman, Gray Company. No. 159,014; Sept. 19.
Hosiery and knit underwear for men. L. B. Schwab. No. 159,091; Sept. 19.
Hosiery. Bestex Hosiery Co. No. 158,895; Sept. 19.
Hosiery. Calton Manufacturing Company. No. 158,913; Sept. 19.
Hosiery. Daisy Whitehead Knitting Co. No. 158,928; Sept. 19.
Hosiery. Lehigh Silk Hosiery Mills, Inc. Nos. 159,197–8; Sept. 19.
Hosiery. Rambo & Regar, Incorporated. No. 159,066; Sept. 19.
Hosiery. Rice-Stix Dry Goods Company. No. 159,071; Sept. 19.
Hosiery. Salomon Stern Ltd., of America. No. 159,215; Sept. 19.
Hosiery. C. Smith. No. 159,104; Sept. 19.
Hosiery, Infants'. W. T. Grant Company. No. 158,968; Sept. 19.
Hosiery, Men's. J. H. Cohen. No. 159,176; Sept. 19.
Insecticides. M. Diederich. No. 158,935; Sept. 19.
Insecticides. F. P. Symonds. No. 159,128; Sept. 19.
Journal, Monthly. Spokesman Publishing Company. No. 159,107; Sept. 19.
Journal published quarterly, Trade. R. S. Kennedy. No. 159,008; Sept. 19.
Knit fabric made of artificial silk, Tubular. Clayburgh Brothers. No. 158,919; Sept. 19.
Knitted hosiery and underwear. Walton N. Moore Dry Goods Co. No. 159,044; Sept. 19.
Knitted underwear, shirts, drawers, union suits, and bloomers. F. Condé. No. 159,177; Sept. 19.
Launderers' materials. H. Kohnstamm & Co. No. 159,196; Sept. 19.
Linen and cotton goods. M. Crosble. No. 158,927; Sept. 19.
Liniment for rheumatism. G. Ferrera. No. 158,949; Sept. 19.
Loganberry juice. Northwest Fruit Products Co. No. 159,052; Sept. 19.
Magazine published monthly. B. V. Crandall. No. 158,925; Sept. 19.
Magazines, Monthly. Street & Smith Corporation. No. 159,125; Sept. 19.
Magazines published monthly. John Martin's House, Inc. No. 158,996; Sept. 19.
Magazines, Weekly. Street & Smith Corporation. No. 159,126; Sept. 19.
Malt. G. & H. Products Co. No. 158,958; Sept. 19.
Malt-extract sirup for food purposes. Schreiber Products Corporation. Nos. 159,087–9; Sept. 19.
Manicuring implements and accessories. H. D. Koenig. No. 159,008; Sept. 19.
Mattresses. John Hoey & Co. No. 158,983; Sept. 19.
Mattresses. Shifman Brothers. No. 159,099; Sept. 19.
Mattresses. Stearns & Foster Company. Nos. 159,115–19; Sept. 19.
Mattresses. Utica Bedding Factory, Inc. Nos. 159,136–7; Sept. 19.
Mattresses, box springs, bed springs, and pillows. Akron Mattress Manufacturing Company. Nos. 158,876–7; Sept. 19.
Mattresses, cushions, beds, etc. Burton-Dixie Corporation. No. 158,908; Sept. 19.
Medicine for menorrhagia, metrorrhagia, backache and menstrual fever. A. Khoury. No. 159,005; Sept. 19.
Medicinal compound. Py-Re-Gon Company. No. 159,065; Sept. 19.
Medicinal preparation, Certain. Santerba Perfumery Manufacturer Inc. No. 159,084; Sept. 19.
Meats, sausage, and lard, Cured. Farmers Terminal Packing Company. No. 159,181; Sept. 19.
Medicinal preparation for treatment of loin disease in cattle. W. Abell. No. 158,875; Sept. 19.
Milk, Evaporated. Borden Company. No. 158,901; Sept. 19.
Nail files and buffers, manicuring scissors, cuticle knives. James McCreery & Company. No. 159,026; Sept. 19.
Naphtha, lubricating oils and greases. R. J. Brown Petroleum Company. No. 158,906; Sept. 19.
Neckties and scarfs. Levy & Marcus. No. 159,019; Sept. 19.
Neckties and scarfs. T. A. Pettis Company. No. 159,211; Sept. 19.
Neckwear. M. W. Lowenstein & Co. No. 159,023; Sept. 19.
Newspaper and magazine articles, Nom de plume on. L. A. Krag. No. 159,010; Sept. 19.
Newspaper column. New York Tribune Inc. No. 159,049; Sept. 19.
Newspaper section. Star Company. Nos. 159,113–14; Sept. 19.
Nickel polish. Wadsworth-Howland Company. No. 159,144; Sept. 19.
Notions, Certain. Bilistein-Felerman Co. No. 158,896; Sept. 19.
Notions, Certain. James McCreery & Company. No. 159,027; Sept. 19.
Oils and greases. L. Blaustein. No. 159,168; Sept. 19.
Oils and greases, lubricating. Cadillac Oil Company Inc. No. 159,172; Sept. 19.
Oils, Certain heating and illuminating. Standard Oil Company. No. 159,109; Sept. 19.
Oil for rheumatism, boils, etc., Healing. J. Stanislawski. No. 159,112; Sept. 19.
Ointment. Menthol Products Company. No. 159,085; Sept. 19.
Organs. Bartola Musical Instrument Co. No. 159,165; Sept. 19.
Overalls. Straus Mfg. Co. No. 159,228; Sept. 19.
Overalls and work shirts, Men's. Berry-Beall Dry Goods Company. No. 158,894; Sept. 19.
Oxid, oxygen, Nitrous. Ohio Chemical & Manufacturing Co. No. 159,208; Sept. 19.
Paint enamels, prepared shellacs, varnishes, engine enamels, etc. James B. Day & Co. No. 158,890; Sept. 19.
Paint, Flat oil. John P. Cochran Co. No. 158,922; Sept. 19.
Paints and thinners, varnishes, Ready-mixed coal-tar. Rivalac Paint Company. No. 159,074; Sept. 19.
Paints and varnish, Enamel. Keystone Varnish Company. No. 159,004; Sept. 19.
Pails, coal hods, dinner pails, etc., Metal (galvanized iron or tin). Atlantic Stamping Company. No. 158,886; Sept. 19.
Paints, colors, stains, etc., Certain. McDougall-Butler Co. No. 159,028; Sept. 19.
Paints drying with a semigloss finish. Sherwin-Williams Company. No. 159,232; Sept. 19.
Paints for glass, etc. General Electric Company. No. 158,961 - Sept. 19.
Paints, paint enamels, primers, and fillers, Certain. Sherwin-Williams Company. Nos. 159,219–22; Sept. 19.
Paints, ready-mixed paint, enamels, varnishes, etc. John Sexton and Company. No. 159,006; Sept. 19.
Paints, stains, paint enamels, etc. Mixed. Benjamin Moore & Co. No. 159,041; Sept. 19.
Paints, varnishes, and shellacs, Certain. M. P. Case. No. 158,914; Sept. 19.

Paints, varnishes, and waterproofing compounds. W. H. Greene. No. 159,187; Sept. 19.
Paints, varnishes, paint enamels, driers. E. E. Nice. No. 159,050; Sept. 19.
Pamphlets, maps, and guidebooks, Travel. O. F. James. No. 158,998; Sept. 19.
Pants, Knee. Straus Mfg. Co. No. 159,229; Sept. 19.
Pants made of rubber, Children's. S. Blechman & Sons, Inc. No. 159,169; Sept. 19.
Paper containers, cans, and shipping tubs. Angel International Corporation. No. 158,882; Sept. 19.
Paper, Writing, printing, and book. C. P. Leah Paper Company. Nos. 159,199–201; Sept. 19.
Perfumes, perfumed powders, and toilet waters. Colgate & Co. No. 158,923; Sept. 19.
Periodical, Monthly. Butterick Publishing Company. No. 158,909; Sept. 19.
Periodical, Monthly. R. S. Monger. No. 159,040; Sept. 19.
Periodical, Monthly. Shoe and Leather Reporter Co. No. 159,100; Sept. 19.
Periodical, Weekly. Interpreter Publishing Corporation. No. 158,991; Sept. 19.
Periodical devoted to games, Section of a daily, weekly, or monthly. Associated Editors. No. 158,885; Sept. 19.
Periodicals. Webb Publishing Company. No. 159,149; Sept. 19.
Periodicals issued bimonthly. Westinghouse Union Battery Co. No. 159,152; Sept. 19.
Periodicals, Monthly. Webb Publishing Company. No. 159,150; Sept. 19.
Periodical, Monthly. Wollensak Optical Company. No. 159,158; Sept. 19.
Phonograph cabinets. F. X. Stahl. No. 159,108; Sept. 19.
Phonographic prints. A. E. Jacobson. No. 158,992; Sept. 19.
Pianos, Upright, grand, player, and reproducing. E. A. Brooks. No. 159,170; Sept. 19.
Pins, Safety. F. Rees. No. 159,068; Sept. 19.
Pistons. Wright Manufacturing Company. No. 159,244; Sept. 19.
Potato chips. C. Shasteen. No. 159,097; Sept. 19.
Polishing liquid for automobiles and furniture. W. H. Feeler. No. 158,947; Sept. 19.
Polish, Stove. S. L. Black. No. 158,897; Sept. 19.
Powder, Toilet. Chloreate Company. No. 158,916; Sept. 19.
Powder, Tooth. Prophylactic Tooth Powder, Inc. No. 159,064; Sept. 19.
Precious metal, Certain articles plated with. Stanley & Aylward, Limited. No. 159,226; Sept. 19.
Preparation for energising gasoline, Liquid. 1 in 5 Manufacturing Co. No. 158,990; Sept. 19.
Preparation for producing a glossy effect upon the hair. V. Vivaudou, Inc. No. 159,236; Sept. 19.
Preparation to promote the growth of hair and for the treatment of dandruff, etc. Velvotone Chemical Co. No. 159,140; Sept. 19.
Prints, pictures, and illustrations. R. John. No. 158,996; Sept. 19.
Publication, Annual. V. H. Brownscombe. No. 158,907; Sept. 19.
Publication, Monthly. Brewster Publications, Inc. No. 158,904; Sept. 19.
Publication, Monthly. Buzza Company. No. 158,910; Sept. 19.
Publication, Monthly. Hawkins Mortgage Co. No. 158,977; Sept. 19.
Publication, Monthly. National Exchange Club. No. 159,045; Sept. 19.
Publications, Monthly. Charles Scribner's Sons. No. 159,093; Sept. 19.
Publications, Periodical. N. Divir. No. 158,937; Sept. 19.
Pumps, Deep-well. Fort Wayne Engineering & Manufacturing Co. No. 159,184; Sept. 19.
Rat poison. C. D. Berman. No. 158,893; Sept. 19.
Receptacles, Waste. Barshal Company. No. 158,889; Sept. 19.
Rings, other jewelry, and precious-metal ware. Albert S. Samuels Co. Nos. 159,081–2; Sept. 19.
Rope, rovings, cords, and twines. Clark Bros. Mfg. Co. No. 158,918; Sept. 19.
Rubber boots and shoes. La Crosse Rubber Mills Co. No. 159,012; Sept. 19.
Rubber heels. Armstrong Cork Company. No. 159,163; Sept. 19.
Rubber heels. S. Santaiucia. No. 159,083; Sept. 19.
Rubber heels. L. Q. White Shoe Co. No. 159,158; Sept. 19.
Salve for the treatment of sores, burns, boils, eczema, and the like. E. Gosselin. No. 158,966; Sept. 19.
Salve or ointment. E. Fimmel. No. 158,951; Sept. 19.
Salves containing camphor ingredients. Dusco Co. No. 158,941; Sept. 19.
Sanitary aprons and belts. A. Stein & Company. No. 159,121; Sept. 19.
Serum for the treatment of cancer. A. G. Grenoble. No. 158,970; Sept. 19.
Sheeting, sheets, and pillowcases. Carter Dry Goods Co. No. 158,915; Sept. 19.
Sheets and pillowcases. R. H. Macy & Co. No. 159,030; Sept. 19.
Shipping cases. W. H. Doble. Nos. 158,938–9; Sept. 19.
Shirts and boys' outer shirts and blouses, Men's. Bob & Baskind. No. 158,899; Sept. 19.
Shirts, Dress. Daniel T. Patton and Company. No. 159,060; Sept. 19.
Shirts, mittens, and gloves. Biltwell Glove Company. No. 159,167; Sept. 19.
Shirts, Work. Daniel T. Patton and Company. No. 159,061; Sept. 19.
Shirts, Work. Feidman & Weinman. No. 158,948; Sept. 19.
Shock absorbers (automobile). Hayes Shock Absorber Co. No. 159,188; Sept. 19.
Shoes. Sargent Shoe Company. No. 159,216; Sept. 19.
Shoes and leather goods, Cleaning fluid for. Owl Drug Company. No. 159,057; Sept. 19.
Shoes, boots, and slippers, Felt. Standard Felt Company. No. 159,225; Sept. 19.
Shoes, Leather. Lunn & Sweet Company. No. 159,024; Sept. 19.
Shoes, Leather. A. E. Nettleton Company. No. 159,206; Sept. 19.
Shoes, Leather, rubber, fabric, etc. L. A. Leopold. No. 159,017; Sept. 19.
Shoes, Men's leather. W. E. Tuttle Company. No. 159,183; Sept. 19.
Shoes, Tennis. I. Goldberg and Sons. No. 158,964; Sept. 19.
Shoes, Women's leather. Craddock Terry Company. No. 158,924; Sept. 19.
Silk and cotton piece goods. Clarence Whitman & Son, Inc. No. 159,155; Sept. 19.
Silk knitted cloth. Banner Silk Knitting Mills. No. 158,888; Sept. 19.
Silk piece goods. H. R. Mallinson & Co. Nos. 159,032–3; Sept. 19.
Silk piece goods, Broad. Duplan Silk Corporation. No. 158,940; Sept. 19.
Sirups and beverages, Fruit. Cleveland Fruit Juice Company. No. 158,920; Sept. 19.
Skirts, Ladies' and misses' outer. J. Bonwit Skirt Co. No. 158,900; Sept. 19.
Slippers, Felt. Ohio Rubber Co. Nos. 159,055–6; Sept. 19.
Snap fasteners. Waldes & Co. No. 159,145; Sept. 19.
Soap powders. Kendall Products Corporation. No. 159,001; Sept. 19.
Soap, Toilet. Marshall Field & Company. No. 159,202; Sept. 19.
Soaps. Rieser Company. No. 159,072; Sept. 19.
Soaps. Seven Oils Co. No. 159,095; Sept. 19.
Soaps and soap powders. Cafico Chemical Company Inc. No. 158,911; Sept. 19.
Soaps, soap pastes and powders. Parfumerie Roger & Gallet. No. 159,058; Sept. 19.
Soaps, Toilet. J. Eavenson & Sons Incorporated. No. 158,942; Sept. 19.
Spraying solution. Smith Mfg. Co. No. 159,224; Sept. 19.
Stain and floor varnish, Combined. Indiana Indestructible Paint Co. No. 159,193; Sept. 19.
Stoneware, Acid-proof chemical. M. A. Knight. No. 159,195; Sept. 19.
Stools and cabinets, Shoe-shining. Wallin Mfg. Co. No. 159,146; Sept. 19.
Storage receptacles and wrappers for bottles and lamp chimneys, Garment. Mid-West Box Company. No. 159,204; Sept. 19.
Stories or playlets in verse and prose, Series of separate illustrated. J. P. McEvoy. No. 159,029; Sept. 19.
Suits, Boys' and girls' middy. Jackie-Klothes, Inc. No. 159,192; Sept. 19.
Suits, Men's. Chas. Kaufman & Bros. No. 159,000; Sept. 19.
Surgical and medical supplies, Certain. Western Bottle Manufacturing Company. No. 159,241; Sept. 19.
Surgical appliances, Certain. Reinhold Schumann, Inc. No. 159,090; Sept. 19.
Suture material used for sewing up wounds. L. Kahlenberg. No. 158,998; Sept. 19.
Syringes, Douche. Dilator Syringe Corporation. No. 159,178; Sept. 19.
Tablets, Indigestion. H. C. Van Buskirk. No. 159,139; Sept. 19.
Talking-machine records, Transportation package for. Reco-Rap Company. No. 159,067; Sept. 19.
Textile fabrics, Certain. Esmond Mills. No. 158,944; Sept. 19.
Tile, Hollow building. Vigo-American Clay Company. No. 159,234; Sept. 19.
Tile or tile containing cork or wood pulp, Cork. Armstrong Cork Company. No. 159,162; Sept. 19.
Toilet cases and rolls, week-end and overnight bags, etc. Hauser & Weil. No. 158,976; Sept. 19.
Toothbrush containers, Antiseptic. B. L. Hoch. No. 158,982; Sept. 19.
Topcoats. Joseph Elstein & Sons. No. 158,943; Sept. 19.
Trunks, Dress and wardrobe. Rogers Trunk Corporation. No. 159,080; Sept. 19.
Trunks, Wardrobe. Oshkosh Trunk Company. No. 159,209; Sept. 19.
Tubes and rubber goods, Compound for patching. P. A. Porteous. No. 159,212; Sept. 19.
Type cleanser. Anthony Nutype Company. No. 158,883; Sept. 19.
Type, Solution for cleaning. G. B. Odiorne. No. 169,207; Sept. 19.
Underwaists, body waists, corsetwaists, corsets, etc. Lay & Way Co. No. 159,015; Sept. 19.

Underwear. B. V. D. Company. No. 159,171; Sept. 19.
Underwear, Children's and misses' muslin. Welmayde Muslin U'Wear Co. No. 159,289; Sept. 19.
Underwear for women. Scheinzeit-Goldman Co. No. 159,085; Sept. 19.
Underwear, Ladies' muslin and silk. Victoria Undergarment Co. No. 159,142; Sept. 19.
Underwear, Men's woven athletic. Carson Pirie Scott & Co. No. 159,173; Sept. 19.
Varnishes, finishes, lacquers, etc. Morgan Company. Nos. 159,042–3; Sept. 19.
Vibrators and shower sprays, and electric violet-ray appliances, Electric massage. Fitzgerald Mfg. Company. No. 158,953; Sept. 19.
Wardrobes and bedsteads, Bed. I. L. Hadley. No. 158,972; Sept. 19.
Washing compound. Trinity Chemical Corporation. No. 159,131; Sept. 19.
Washing powder. A. E. Kihn. No. 159,006; Sept. 19.
Washing powder. H. B. Rhymer. No. 159,070; Sept. 19.
Watch movements. Illinois Watch Case Company. No. 159,190; Sept. 19.
Water, Mineral-spring. H. S. Jenner. No. 158,994; Sept. 19.
Wax dressing, Improved sanitary. W. H. & F. Jordan, Jr. Mfg. Co. No. 158,997; Sept. 19.
Weather and water proof coatings in liquid and paint-like form. Heppes-Nelson Roofing Company. No. 158,979; Sept. 19.
Webbing and shirred elastic ribbon, Elastic. A. Stein & Company. No. 159,120; Sept. 19.
Welding plates and powders, brazing and tempering powders. Societe des Plaques et Powders à Souder J. Lafitte. No. 159,105; Sept. 19.
Wreaths, bouquets, and floral ornamental trimmings. Dorros Bros. Incorporated. No. 159,179; Sept. 19.
Woolen piece goods. Forstmann & Huffmann. Nos. 158,954–6; Sept. 19.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Ammeters, voltmeters, ohmmeters, etc. Record Electrical Company. No. 142,237; Sept. 19.
Antiseptic powders. J. S. Tyree, Chemist, Inc. No. 161,459; Sept. 19.
Antiseptic preparation. Mifflin Chemical Corporation. No. 149,471; Sept. 19.
Automobiles, Filling attachments for tanks placed under the seats of. Go-lte Manufacturing Company. No. 148,381; Sept. 19.
Bacon, Packaged. Joseph Stern & Sons, Inc. No. 151,024; Sept. 19.
Beef extract. Menley & James Limited. No. 125,394; Sept. 19.
Beer or malt cereal beverages, Near. Pabst Brewing Company. No. 142,940; Sept. 19.
Belts, Transmission or driving. H. Guillou. No. 148,223; Sept. 19.
Boots and shoes, Leather. McIntosh Company. No. 164,442; Sept. 19.
Bread. R. Maurice & Co. No. 144,830; Sept. 19.
Candies. G. H. Thompson, Inc. No. 159,541; Sept. 19.
Candies. Union Candy Company. No. 160,729; Sept. 19.
Candies and chocolate. A. C. Catudal. No. 160,925; Sept. 19.
Candles. Standard Oil Company of New York. No. 162,147; Sept. 19.
Candles. Will & Baumer Candle Co. Nos. 160,170–4; Sept. 19.
Candles. Will & Baumer Candle Co. No. 160,176; Sept. 19.
Candles. Will & Baumer Candle Co. Nos. 160,574–6; Sept. 19.
Candy. Allen-Qualley Company. No. 160,688; Sept. 19.
Candy. Edw. M Becker Co. No 157,751; Sept. 19.
Candy. W. I. Booth. No. 159,403; Sept. 19.
Candy. Cecil Manufacturing Company. No. 147,707; Sept. 19.
Candy. H. Dilas. No. 160,750; Sept. 19.
Candy. W. R. Fox. No. 157,562; Sept. 19.
Candy. V. Jones. No. 160,136; Sept. 19.
Candy. Octagon Top Co. No. 157,899; Sept. 19.
Candy. Palmer Candy Co. No. 160,900; Sept. 19.
Candy, cakes, fruit and berry sirups and juices, maple sirup, honey, etc. S. Plumbridge. No. 151,017; Sept. 19.
Candy, fruit and berry sirups and juices, honey, nuts, etc. S. Plumbridge. No. 151,018; Sept. 19.
Canned fruits and vegetables. Herbert Packing Co. Herbert Packing Co. No. 160,189; Sept. 19.
Canned fruits, vegetables, and fish, and coffee. Dreyfus Bros. No. 161,116; Sept. 19.
Canned goods, cotton-seed oil, catchup, etc. Consolidated Companies, Inc. No. 145,994; Sept. 19.
Canned meats and vegetables, and canned combinations of same. John Cook & Sons, Inc. No. 153,647; Sept. 19.
Canned vegetables. Ephraim Sanitary Canning Company. No. 161,121; Sept. 19.
Canned vegetables. Minnesota Valley Canning Co. Nos. 161,575–6; Sept. 19.
Canned vegetables. Silkwood-Pharis Wholesale Grocery Company. No. 160,515; Sept. 19.
Castings and forgings, Metal. Mueller Metals Company. No. 159,164; Sept. 19.
Cement masonry, Liquid hardner for. Anti-Hydro Waterproofing Company. No 150 051; Sept.19.
Cheese. Wisconsin Cheese Producers Federation. No. 153,119; Sept. 19.
Chocolate nut bars. Chambers Home Made Candies. No. 159,092; Sept. 19.
Chocolate, Sweet milk. Fortune Products Company. No. 160,491; Sept. 19.
Chocolates and bonbons. C. Takis. No. 137,504; Sept. 19.
Coats, vests, and trousers, Men's. M. Sussman & Sons. No. 162,778; Sept. 19.
Coffee. Stahl, Eldman & Company. No. 159,770; Sept. 19.
Coffee. Weidman, Ward & Co. No. 159,988; Sept. 19.
Coffee, tea, canned vegetables, and fruits, and evaporated milk. Symons-Moffett Co. No. 157,449; Sept. 19.
Comfits and candies. Berdan Company. No. 160,459; Sept. 19.
Cotton cloths, fabrics, cloths dyed in the piece, and printed cloths. American Bleached Goods Company. No. 166,161; Sept. 19.
Cotton piece goods. Everett Mills. No. 163,507; Sept. 19.
Cotton piece goods. L. & E. Frenkel, Inc. No. 166,738; Sept. 19.
Cotton piece goods. Hockmeyer Bros. No. 159,703; Sept. 19.
Cotton piece goods. Hockmeyer Bros. No. 165,792; Sept. 19.
Cotton piece goods. M. H. Oppenheimer & Co. No. 165,883; Sept. 19.
Croup and cough sirups. A. J. Doverspike. No. 160,120; Sept. 19.
Curtain rods, Metal. H. L. Judd Company. No. 165,235; Sept. 19.
Denims in the piece, Cotton. Samoset Cotton Mills. No. 165,611; Sept. 19.
Dyeing processes, Intermediate for. E. I. du Pont de Nemours & Company. No. 158,078; Sept. 19.
Electrical conductors, Chemical compound to remedy defective insulation in. G. L'Heureux. No. 158,238; Sept. 19.
Extracting elevators, dental surgical curettes, etc. H. Friedman. No. 161,245; Sept. 19.
Eyeglass bridges, temple frames, and mountings. F. A. Hardy & Company. No. 154,976; Sept. 19.
Files, rasors, razor blades, pocketknives, scissors, kitchen knives, and blade grinders. De Maria & Sparacia. No. 159,853; Sept. 19.
Fly swatters. Lubbers & Bell Mfg. Co. No. 162,690; Sept. 19.
Footballs, football bladders, inflaters, hip pads, etc. James W. Brine Company. No. 165,175; Sept. 19.
Fruits and pineapples, Citrus. H. W. Savage. No. 161,458; Sept. 19.
Fruits, Fresh citrus. Yorba Linda Citrus Association. No. 160,649; Sept. 19.
Fuel vaporizers. S. & G. Mfg. Company. No. 161,804; Sept. 19.
Garments. Dottie-May Co. No. 151,614; Sept. 19.
Gasoline, kerosene, distillate, lubricating oils and greases. Petroleum Products Company. No. 161,699; Sept. 19.
Ginghams in the piece, Dress. Elmira Cotton Mills Co. No. 166,438; Sept. 19.
Glasses and lorgnettes, Opera. Cartier, Inc. No. 163,127; Sept. 19.
Glassware, Graduated chemical and laboratory. Kimble Glass Company. Nos. 147,429–30; Sept. 19.
Gloves, jumpers, and aprons, Oil proof fabric. H. C. French. No. 162,618; Sept. 19.
Grapes and vegetables, Fresh. B. Cribari & Sons. No. 154,861; Sept. 19.
Grease and oils, Transmission and differential. J. Hallian. No. 161,999; Sept. 19.
Gum, Chewing. V. Jones. No. 160,138; Sept. 19.
Hair nets. Fulghum & Company. Nos. 168,030–1; Sept. 19.
Hair nets. G. Klemperer. No. 155,508; Sept. 19.
Hair nets. Morris, Mann & Reilly, Inc. No. 167,646; Sept. 19.
Ham. Eckert Packing Company. No. 140,933; Sept. 19.
Handkerchiefs. John V. Farwell Company. No. 166,447; Sept. 19.
Hardware and plumbing and steam-fitting supplies. Power Supply Company. No. 145,646; Sept. 19.
Honey and beeswax. S. F. von Schuetz. No. 161,600; Sept. 19.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Hosiery. United Hosiery Mills Corporation. No. 162,782; Sept. 19.
Ice cream. Huyler's. No. 160,706. Sept. 19.
Ice-cream cones, Pastry. Stokes & Wells. No. 160,638; Sept. 19.
Internal-combustion engine. C. C. Bradt. No. 161,523; Sept. 19.
Kerosene. Hamberger-Polhemus Company. No. 163,031; Sept. 19.
Labels, paper, and tape, Gummed. Mid-States Gummed Paper Co. No. 166,842; Sept. 19.
Lamps, Physicians' and surgeons'. W. J. Cameron. No. 160,926; Sep. 19.
Lathes. J. J. McCabe Lathe & Machinery Corporation. No. 160,824; Sept. 19.
Leathers. L. Nieman. No. 134,843; Sept. 19.
Lenses and lens blanks used in correcting eyesight, Optical. J. L. Borsch. Nos. 157,131–2; Sept. 19.
Lenses and lens blanks used in correcting eyesight, Optical. J. L. Borsch. No. 157,549; Sept. 19.
Lenses for goggles and protection glasses. Willson Goggles, Inc. No. 160,734; Sept. 19.
Lithopone. American Zinc Sales Company. No. 159,385; Sept. 19.
Lubricant or grease. Pittsburgh Oil Refining Corporation. No. 144,423; Sep. 19.
Lubricants. Keystone Lubricating Company. No. 163,045; Sept. 19.
Macaroni sauce and spaghetti. Alpa Preserve Co. No. 160,177; Sept. 19.
Meat products. J. Branfman. No. 157,207; Sept. 19.
Medicinal preparation for use in lung diseases, pneumonia, bronchitis, sore throat, etc. H. R. Pursell. No. 156,657; Sept. 19.
Medicinal preparation used in the treatment of rheumatism, neuralgia, gout, sciatica, etc. G. S. Lechner. No. 162,425; Sept. 19.
Medicinal preparations. J. S. Tyree. No. 161,401; Sept. 19.
Medicinal preparations for nervousness, anæmia, etc. L. A. White. No. 161,215; Sept. 19.
Neckwear, Ladies'. A. Phillips. No. 162,894; Sept 19.
Nuts, Chocolate-coated. Lion Specialty Co. No. 160,764; Sept. 19.
Oil, Crank-case-flushing. Standard Oil Company (Incorporated in New Jersey). No. 161,280; Sept. 19.
Oils and gasoline, Motor. Duncan Oil Company. No. 159,956; Sept. 19.
Oils and greases, Illuminating and lubricating. Oklahoma Trading Corporation. No. 159,428; Sept. 19.
Oils and greases, Lubricating. Pennsylvania Lubricating Company. No. 160,205; Sept. 19.
Oils and greases, Lubricating. J. G. Philips. No. 160,080; Sept. 19.
Ointment for utero-ovarian diseases, Curative. Mary Brannon Company. No. 162,664; Sept. 19.
Paints and varnishes, Removers for. Chalmers Chemical Company. No. 157,755; Sept. 19.
Paper and envelopes, Writing. Marshall Field & Company. No. 166,670; Sept. 19.
Paper, tissue and crêpe napkins, writing tablets, Wrapping. J. A. Fisher. No. 163,148; Sept. 19.
Paper, Toilet. National Paper Products Company. No. 166,200; Sept. 19.
Paper, Toilet. Sauquoit Toilet Paper Co. No. 166,858; Sept. 19.
Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 164,326; Sept. 19.
Parting compound or composition. Macco Co., Inc. No. 162,429; Sept. 19.
Peanut Butter. California Peanut Company. No. 159,009; Sept. 19.
Pencil leads and mechanical pencils holding such leads. H. E. Golber. No. 165,949; Sept. 19.
Pencils, Mechanical. Ostra Corporation. No. 167,362; Sept. 19.
Petroleum products. C. A. Pierce. No. 163,468; Sept. 19.
Pipes. A. Orlik. Nos. 157,682–3; Sept. 19.
Pipes, Tobacco. C. D. Jonas. No. 167,469; Sept. 19.
Polishes acting as grease removers and cleaning materials, metal polish, etc. E. I. du Pont de Nemours and Company. No. 150,440; Sept. 19.
Pork products, Dry salt. Jacob Dold Packing Co. No. 152,067; Sept 19
Poultry and game birds, prepared or cooked spaghetti, Welsh rabbit, etc., Dressed, packed, and prepared. A. Silz, Inc. No. 150,982; Sept. 19.
Powders and creams, perfumes, rouges, etc., Face. Commercial Laboratories, Inc. No. 162,862; Sept. 19.
Powders and creams, perfumes, rouges, etc., Face. Condé Perfumer. No. 162,801; Sept. 19.
Preparation for the alleviation of roup, diarrhea, bowel complaint, sore head, etc. O. A. Glessner. No. 162,400; Sept. 19.
Pulleys, Power-transmission. Rockwood Manufacturing Company. No. 163,114; Sept. 19.
Pulverulent dry products of low specific gravity containing albuminous material, etc., Neutral, somewhat acid, somewhat alkaline. Kandex Products, Incorporated. No. 158,932; Sept. 19.
Pumps used in handling acids, feeding boilers, etc. Vogt Brothers Mfg. Co. No. 160,217; Sept. 19.
Razor blades. H. G. Strauss. No. 162,791; Sept. 19.
Remedy for disorders of the stomach and liver. Gattis Chemical Co. No. 149,745; Sept. 19.
Roofing sheets, and shingles, Waterproof. Barber Asphalt Paving Company. No. 163,378; Sept. 19.
Salad dressing. A. E. Wright. No. 158,500; Sept. 19.
Salve, Hair. L. Levy. No. 141,725; Sept. 19.
Sand, Mixers and preparing machines for molding. Link-Belt Co. No. 160,244; Sept. 19.
Sewing machines and parts thereof, etc. Gustav Winselmann, Gesellschaft mit beschränkter Haftung. No. 155,881; Sept. 19.
Shampoo. Marshall Field & Company. No. 161,538; Sept. 19.
Sheep and lambs' pelts. New Zealand Refrigerating Company. No. 161,374; Sept. 19.
Sheep and lambs' pelts. New Zealand Refrigerating Company. No. 161,376; Sept. 19.
Sheet-metal bands and wire manufactured for electrotechnical purposes. Berndorfer Metallwarenfabrik Arthur Krupp A.-G. No. 161,345; Sept. 19.
Siphons, bath sprays, faucet adapters, etc., Automatic. G. V. Gavaza. No. 162,398; Sept. 19.
Sirup for table use as a food, Malt. Swanell Brokerage Co. No. 160,032; Sept. 19.
Sirup used as a food drink or food flavor, Fruit. H. H. Hay Sons. Nos. 160,132–3; Sept. 19.
Spray compound, Nasal. G. F. Fisk, jr. No. 162,619; Sept. 19.
Stationery, Boxed. Rytex Company. No. 166,853; Sept. 19.
Sugar. Warner Sugar Refining Company. No. 159,824; Sept. 19.
Suits, Boys'. Levine Brothers. Nos. 162,682–3; Sept. 19.
Suits, Men's. Levine Brothers. Nos. 162,684–5; Sept. 19.
Swords, sabers, cutlasses, rapiers, etc. Lauterjung & Sohn. No. 125,390; Sept. 19.
Tablets, Cough. M. R. Durante. No. 158,565; Sept. 19.
Talcum, face powder, foot powder, cold cream, vanishing cream, etc. L. R. Carley. No. 160,586; Sept. 19.
Tape, Sealing. Liberty Paper Co. No. 166,696; Sept. 19.
Tobacco moistener. Chicago Ferrule & Nut Company. No. 163,778; Sept. 19.
Tonic, Liniment, nerve tonic, bronchial sirup, etc. Twentieth Century Laboratories. No. 161,589; Sept. 19.
Travelers, Ring and twister. National Ring Traveler Co. No. 159,171; Sept. 19.
Valves, Metal. T. McAvity and Sons Limited. No. 160,954; Sept. 19.
Vanillas, Natural and artificial concentrated. M. A. Shepardson. No. 159,622; Sept. 19.
Varnishes, lacquers, paints; etc. D. H. Vettewinkel. No. 142,183; Sept. 19.
Vinegar. Repp Orchard Products Co. No. 147,639; Sept. 19.
Vinegar, Pure apple-cider. Springdale Vinegar Company. No. 160,639; Sept. 19.
Water systems, Fresh. National Utilities Corporation. No. 146,028; Sept. 19.
Woolen piece goods. Societe Rodier. No. 167,022; Sept. 19.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 19, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

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187— 61: 1,429,597
188— 8: 1,429,648
30: 1,429,771
45: 1,429,582
97: 1,429,528
199: 1,429,640
189— 34: 1,429,400
190— 2: 1,429,523
192— 21: 1,429,280
52: 1,429,882
68: 1,429,479
116: 1,429,302
1,429,404
1,429,468
1,429,665
193— 34: 1,429,282
194— 9: 1,429,633
75: 1,429,505
196— 3: 1,429,623
13: 1,429,622
24: 1,429,721
25: 1,429,910
197— 8: 1,429,862
154: 1,429,678
179: 1,429,341
198— 20: 1,429,559
186: 1,429,732
199— 1: 1,429,720
200— 96: 1,429,278
114: 1,429,275
130: 1,429,672
140: 1,429,476
159: 1,429,326
167: 1,429,860
202— 9: 1,429,281
203— 5: 1,429,541
204— 5: 1,429,438
15: 1,429,330
24: 1,429,363
29: R.15,457
1,429,300
1,429,830
64: 1,429,286
1,429,489
1,429,909
206— 29: 1,429,511
41: 1,429,743
44: 1,429,442
56: 1,429,701
60: 1,429,836
210— 103: 1,429,488
124: 1,429,477

210—	178:	1,429,639	219—	19:	1,429,865	235—	61:	1,429,785	251—	132:	1,429,637	265—	62:	1,429,662	291—	28:	1,429,855
	200:	1,429,913		21:	1,429,890		84:	1,429,264	252—		1,429,856	266—	123:	1,429,650	292—	202:	1,429,872
211—	6:	1,429,260		39:	1,429,735		88:	1,429,463			1,429,876	267—	17:	1,429,990		216:	1,429,389
	13:	1,429,835		44:	1,429,898	236—	12:	1,429,257	253—	50:	1,429,570		19:	1,429,367		224:	1,429,256
	14:	1,429,846		46:	1,429,402	237—	12.3:	1,429,332		69:	1,429,508		28:	1,429,279		241:	1,429,991
	16:	1,429,339		56:	1,429,858	238—	14:	1,429,305		195:	1,429,538		36:	1,429,411		291:	1,429,536
	29:	1,429,277	220—	5:	1,429,220		200:	1,429,895	254—	70:	1,429,796			1,429,902	293—	55:	1,429,410
	30:	1,429,742		7:	1,429,718		218:	1,429,431		173:	1,429,553		37:	1,429,234			1,429,806
212—	140:	1,429,216		9:	1,429,887		237:	1,429,543	256—	73:	1,429,774	271—	74:	1,429,301	294—	15:	1,429,218
213—	59:	1,429,235		23:	1,429,507	240—	2:	1,429,760	257—	130:	1,429,440	274—	2:	1,429,340		102:	1,429,263
		1,429,689		24:	1,429,630		7:	1,429,884			1,429,644			1,429,839		118:	1,429,813
	64:	1,429,581		25:	1,429,739		8.5:	1,429,261		134:	1,429,413		15:	1,429,755	296—	84:	1,429,433
		1,429,687		44:	1,429,566		41:	1,429,236	259—	78:	1,429,731	278—	12:	1,429,425		92:	1,429,891
		1,429,688		55:	1,429,303		45.6:	1,429,722		81:	1,429,652		50:	1,429,760		93:	1,429,223
214—	17:	1,429,387			1,429,754		48.4:	1,429,762		104:	1,429,319	279—	114:	1,429,395	298—	9:	1,429,847
	35:	1,429,711		89:	1,429,296		62:	1,429,283		135:	1,429,747			1,429,396		19:	1,429,820
	38:	1,429,791		94:	1,429,446	242—	18:	1,429,493	260—	4:	1,429,265	280—	16:	1,429,636	299—	47:	1,429,756
	49:	1,429,892	221—	22:	1,429,561		70:	1,429,692			1,429,267		33.2:	1,429,720	301—	9:	1,429,304
	66:	1,429,432		61:	1,429,500		117:	1,429,491		57:	1,429,514		33.5:	1,429,734			1,429,501
	110:	1,429,372			1,429,501	244—	15:	1,429,284		90:	1,429,782		35:	1,429,849		11:	1,429,515
	130:	1,429,327		79:	1,429,255		25:	1,429,730		92:	1,429,781		153:	1,429,496		20:	1,429,736
215—	11:	1,429,585		106:	1,429,232		31:	1,429,494		99:	1,429,342		157:	1,429,366		30:	1,429,901
	12:	1,429,779	224—	29:	1,429,667			1,429,600		125:	1,429,483	281—	43:	1,429,436		41:	1,429,658
	13:	1,429,698			1,429,817	246—	186:	1,429,885		128:	1,429,714	282—	23:	1,429,873		81:	1,429,706
216—	28:	1,429,321	225—	26:	1,429,574		428:	1,429,726	261—	50:	1,429,534	283—	1:	1,429,423	302—	2:	1,429,461
217—	33:	1,429,610	230—	27:	1,429,829	248—	3:	1,429,784	263—	8:	1,429,380			1,429,485	305—	8:	1,429,589
	62:	1,429,704	233—	4:	1,429,331		31:	1,429,776		45:	1,429,777		34:	1,429,285		9:	1,429,473
	78:	1,429,624		14:	1,429,320	250—	20:	1,429,572	265—	13:	1,429,481	285—	62:	1,429,593			1,429,475
219—	19:	1,429,397	234—	1:	1,429,269		33:	1,429,240		30:	1,429,907		82:	1,429,766	306—	33:	1,429,500
		1,429,799		125:	1,429,878		41:	1,429,227		59:	1,429,362	287—	90:	1,429,705			

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 26TH DAY OF SEPTEMBER, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abendroth, Elmer T., De Pere, Wis., assignor to Hudson Manufacturing Company, Minneapolis, Minn. Pail holder. No. 1,429,917; Sept. 26.

Abramchuk, Joseph A., Rossburn, Manitoba, Canada. Sleigh brake. No. 1,429,995; Sept. 26.

Adams, Francis S., Anaconda, Mont. Process of and apparatus for precipitating copper from solutions. No. 1,430,140; Sept. 26.

Adams, Robert J. (See Crompton, R., Woodman, and Adams.)

Adjuria, Incorporated. (See Webber, Rollin F., assignor.)

Adsit, Byron D. (See Finney, George S., assignor.)

Albert, Eugen, Munich, Germany. Producing printing plates. No. 1,430,347; Sept. 26.

Alexander Hamilton Institute. (See Fleck, Louis L., assignor.)

Alger, Harley C., Oak Park, Ill. Lost-motion take-up for printing presses or the like. No. 1,430,274; Sept. 26.

Allen, Carlton H., assignor of one-half to Great Northern Paper Company, Millinocket, Me. Valve mechanism. No. 1,430,427; Sept. 26.

Allen, Erhard, assignor to The Dayton Display Fixture Company, Dayton, Ohio. Hand truck. No. 1,429,918; Sept. 26.

Allen, George F., Oronogo, Mo. Hydrocarbon-oil burner. No. 1,430,428; Sept. 26.

Allen, Howard G., assignor to The J. L. Morrison Company, Inc., Niagara Falls, N. Y. Stapling machine. No. 1,430,048; Sept. 26.

Almen-Crosby Motors Company. (See Almen, John O., assignor.)

Almen, John O., Seattle, Wash., assignor to Almen-Crosby Motors Company, Inc. Internal-combustion engine. No. 1,430,275; Sept. 26.

American Encaustic Tiling Co., Ltd. (See Lillibridge, Harry D., assignor.)

American Flyer Mfg. Co. (See Nichols, Edgar B., assignor.)

American Raylo Corporation. (See Deeks, Hiram C. J., assignor.)

American Telephone and Telegraph Company. (See Davidson, John, jr., assignor.)

American Telephone and Telegraph Company. (See Rhodes, William A., assignor.)

American Whaley Engine Company. (See Whaley, William B. S., assignor.)

American Writing Paper Company. (See Rindfusz, R. E., and Voorhees, assignors.)

Anderson, Frank P., assignor of one-half to G. C. Urlin, Columbus, Ohio. Metal casement window and metal weather strip therefor. No. 1,429,915; Sept. 26.

Anderson, John. (See Atack, F. W., and Anderson.)

Anderson, Nels, Flint, Mich. Boring machine. No. 1,429,916; Sept. 26.

Angus, Harry H., assignor to The Atlas Engineering & Machine Company, Limited, Toronto, Ontario, Canada. Accelerating pump for water-heating systems. No. 1,430,141; Sept. 26.

Applegate, Lee R., Seattle, Wash. Vegetable cubing machine. No. 1,430,049; Sept. 26.

Appleton, Charles, and F. McRea, Surf Inlet, British Columbia, Canada. Insulating and anticorrosive paint and making same. No. 1,430,142; Sept. 26.

Armstrong, Victor C. (See Larchmonth, John H., assignor.)

Arness, Olaf J., Minneapolis, Minn. Spraying attachment No. 1,430,348; Sept. 26.

Arnold, Ernest H., assignor to H. M. Strong, Cleveland, Ohio. Automobile fan. No. 1,430,276; Sept. 26.

Aronoff, Joseph, Montreal, Quebec, Canada. Garment pocket. No. 1,429,996; Sept. 26.

Ashley, Frank M. (See Trust, H., and Ashley.)

Atack, Frederick W., Manchester, England, and J. Anderson, St. Andrews, Scotland, assignors to The British Alizarine Company, Limited, Manchester, Lancaster, England. Fusion of organic substances with alkalies. No. 1,430,277; Sept. 26.

Atlas Engineering & Machine Company, Limited, The. (See Angus, Harry H., assignor.)

Atwood, Edwin W. (See Copeman, Lloyd G., assignor.)

Ayres Elwood B., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Apparatus for drying clay bodies. No. 1,429,997; Sept. 26.

Ayres, Elwood B., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Fan. No. 1,430,486; Sept. 26.

Bager, Svante R. W. M. (See Ferris, W., and Bager.)

Baker-Perkins Manufacturing Corporation. (See Eggert, Gustav B., assignor.)

Baker, Phillip, Malden, Mass. Mattress-filling machine. No. 1,429,998; Sept. 26.

Bandurski, Walter. (See Labadie, William D., assignor.)

Barber Oil Burner Company, The. (See Barber, W. J., and Irvin, assignors.)

Barber, William, New York, N. Y. Brake mechanism. No. 1,430,349; Sept. 26.

Barber, William J., and W. J. Irvin, Cleveland, Ohio, assignors, by mesne assignments, to The Barber Oil Burner Company. Liquid-fuel burner. No. 1,430,278; Sept. 26.

Barchard, F. L., et al. (See McGee, Eugene H., assignor.)

Barefoot, Josie C., and A. A. Knee, Charlotte, assignors to Velvet Action Brake Lining Company, Mecklenburg County, N. C. Brake-band lining for automobiles, etc. No. 1,430,143; Sept. 26.

Barker, Dyson. (See Cordwell, W., and Barker.)

Barlow, Ernest, Foleshill, Coventry, England. Combined depth and angle gauge. No. 1,429,999; Sept. 26.

Barney, Edwin E., Newark, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,430,208; Sept. 26.

Baron, Henry, Mayenne, France. Jack. No. 1,430,144; Sept. 26.

Barrett Company, The. (See Perry, Ray P., assignor.) (Reissue.)

Barron, William L., Newark, N. J., assignor to The Singer Manufacturing Company. Button-sewing machine. No. 1,429,919; Sept. 26.

Bartholomew, William, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Gear mechanism for laundry machines. No. 1,430,209; Sept. 26.

Barton, Archilles A., Glendale, Calif. Bucket for deep-well pumps. No. 1,430,145; Sept. 26.

Bateman, Samuel F., El Dorado, Ark. Sand trap for oil-well pumps. No. 1,430,146; Sept. 26.

Bates, Adelmer M., assignor to Bates Valve Bag Company, Chicago, Ill. Wire tie and seal making and applying tool. No. 1,429,920; Sept. 26.

Bates, Edmund C., assignor to The Buckeye Jack Manufacturing Company, Alliance, Ohio. Lifting jack. No. 1,430,350; Sept. 26.

Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)

Bathurst, Thomas T., Kansas City, Mo. Spark plug. No. 1,430,429; Sept. 26.

Battelle, Gordon. (See Waring, William G., assignor.)

Becker, Martin D., Elkhart, Ind. Pneumatic chuck. No. 1,430,050; Sept. 26.

Beckwith, Raymond A., assignor to National Brake & Electric Company, Milwaukee, Wis. Cylinder-head construction. No. 1,430,051; Sept. 26.

Bell, William M., Portsmouth, Ohio, assignor to Whitaker-Glessner Company, Wheeling, W. Va. End closure for range boilers and like containers. No. 1,430,000; Sept. 26.

Belverge, Armand Y. (See Wread, William E., assignor.)

Belville Manufacturing Co., The. (See Belville, Martin, assignor.)

Belville, Martin, assignor to The Belville Manufacturing Co. Inc., San Francisco, Calif. Shoe-polishing machine. No. 1,430,430; Sept. 26.

Bennett, Ashley C., assignor to I. E. Bennett, Minneapolis, Minn. Carburetor. No. 1,430,001; Sept. 26.

Bennett, Charles R. (See Holmstrom, Frank, jr., assignor.)

Bennett, Irene E. (See Bennett, Ashley C., assignor.)

Benvissuto, Philip, and L. Mombaruzzo, New York, N. Y. Automatic gas-control valve. No. 1,430,351; Sept. 26.

Berger, Alexander, Bayside, N. Y. Automobile signal device. No. 1,430,352; Sept. 26.

Bernardoni, Otto J. (See Calcaterra, J., and Bernardoni.)

Beuchel, Theodore W. (See Schmidt, L. L., Beuchel, and Otwell.)

Beverly, Fred P., and C. Caldwell, Kaufman, Tex. Car brake. No. 1,430,487; Sept. 26.

Beville, Webster J., London, England. Illuminated sign or advertisement. No. 1,430,147; Sept. 26.

Binkley, Martin L., Lima, Ohio. Building block. No. 1,430,431; Sept. 26.
Bittner, Attalus C., Clinton, Iowa. Conical or cylinder grinding mill. No. 1,430,432; Sept. 26.
Blake, Charles C., Brookline, Mass. Insole-rounding machine. No. 1,430,210; Sept. 26.
Blakely, William W., Detroit, Mich. Wheel block. No. 1,429,921; Sept. 26.
Blankenhorn, George S., assignor to Coen Company, San Francisco, Calif. Automatic control for mechanical oil-burning systems. No. 1,430,279; Sept. 26.
Bliss, Herbert R., Niagara Falls, N. Y. Sealing fiber shipping cases. No. 1,430,148; Sept. 26.
Bliss, Herbert R., Niagara Falls, N. Y. Shipping case. No. 1,430,149; Sept. 26.
Bliss, Herbert R., Niagara Falls, N. Y. Wire-stitching machine. No. 1,430,150; Sept. 26.
Bliss, Herbert R., Niagara Falls, N. Y. Constructing fiber shipping cases. No. 1,430,151; Sept. 26.
Bliss, Ida J., et al. (See Camelo, Nicholas, assignor.)
Bloomdale, Seth N., Worcester, Mass. Spring hub. No. 1,430,002; Sept. 26.
Board, William S., Plymouth, W. Va. Guard for grates. No. 1,430,488; Sept. 26.
Bobo, Georgie D. (See Rawling, Aldean W., assignor.)
Bockmühl, Max, Hochst-on-the-Main, and A. Schwarz, Frankfort-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Bruning, Hochst-on-the-Main, Germany. Aliphatic dialkylamino alkyl compounds and making same. No. 1,429,922; Sept. 26.
Boesch Lamp Company. (See Savery, Edwin, assignor.)
Bolton, John R., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Golf-practice net. No. 1,430,280; Sept. 26.
Bone, Matthew. (See Parsons, C. A., Carnegie, Bone, and Cook.)
Bonnet, Edmond. (See Radelet, F., and Bonnet.)
Boruszak, Leon, et al. (See Sheller, John C., assignor.)
Bossé, Adolph E., Arden, Del., and C. W. Ford, assignors to Bossé-Ford Company, Philadelphia, Pa. Temperature-regulating valve. No. 1,429,923; Sept. 26.
Bossé-Ford Company. (See Bossé, A. E., and Ford, assignors.)
Bouvy, (Nicolaaszoon), Jacobus J. B. J., Dordrecht, Netherlands. Belt fasteners. No. 1,430,211; Sept. 26.
Brabant, Lewis J., Milwaukee, Wis. Calendar. No. 1,430,212; Sept. 26.
Brann, Harry H., and G. H. Tenbrook, assignors to Havisido Company, San Francisco, Calif. Ladder. No. 1,430,281; Sept. 26.
Brautigam, Josef, assignor of one-half to J. Edwards, Brooklyn, N. Y. Automobile accelerator. No. 1,430,003; Sept. 26.
Bretschneider, Max R., Plauen, Germany. Fabric frame for several-needle embroidering machines. No. 1,430,152; Sept. 26.
Brewer, George B., San Pedro, Calif. Signal machine. No. 1,430,489; Sept. 26.
Bridgewater Machine Company. (See Mason, Freeman D., assignor.)
Bridgham, Barton C., San Francisco, Calif. Card holder. No. 1,430,282; Sept. 26.
Brigel, Leo A., Cheviot, Ohio. Bottle-capping apparatus. No. 1,430,283; Sept. 26.
Brinkman, Louis H., Glenridge, N. J. Bending pipes or tubes. No. 1,429,924; Sept. 26.
British Alizarine Company Limited, The. (See Atack, F. W., and Anderson, assignors.)
Brooks, Vaughn W., Joliet, Ill. Sharpening material. No. 1,430,052; Sept. 26.
Broome, William, Oswego, N. Y. Carpet or rug fastener. No. 1,430,353; Sept. 26.
Brown, Oscar E., Lancaster, Pa. Valve grinder. No. 1,430,285; Sept. 26.
Brown, Robert, Calgary, Alberta, Canada. Headlamp for automobiles. No. 1,430,433; Sept. 26.
Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,430,213; Sept. 26.
Buck, Norman N. (See Wilterding, F. E., and Buck.)
Buckeye Jack Manufacturing Company, The. (See Bates, Edmund C., assignor.)
Buckingham, Harry W., et al., executors. (See Mathews, Thomas.)
Bucyrus Company. (See Ferris, W., and Bager, assignors.)
Burdick, Fred F., Milton, Wis. Therapy lamp. No. 1,430,354; Sept. 26.
Burdick, Paul H., Geneva, Ill. Typewriting machine. No. 1,430,284; Sept. 26.
Burns, William H., Carbondale, Ill. Oil box. No. 1,430,490; Sept. 26.
Burns, William H., Chicago, Ill. Hairpin. No. 1,430,434; Sept. 26.
Bush, Hazel B., deceased, San Bernardino, Calif.; M. D. Douglas, administrator. Fuse-gripping device. No. 1,430,053; Sept. 26.
Busse, Edwin G., and G. N. Van Sweringen, assignors to Chicago Railway Equipment Company, Chicago, Ill. Brake head. No. 1,430,335; Sept. 26.
Calcaterra, Joseph, New York, and O. J. Bernardoni, Corona, N. Y. Means to prevent dead centers in engines. No. 1,430,491; Sept. 26.
Caldwell, Comer. (See Beverly, F. P., and Caldwell.)
Camden Curtain & Embroidery Company. (See Franklin, Charles J., assignor.
Camelo, Nicholas, Rome, assignor of one-third to I. J. Bliss, Utica, and one-third to M. L. E. Johnson, Camden, N. Y. Sheet-metal plating or coating machine. No. 1,430,054; Sept. 26.
Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,430,356; Sept. 26.
Campbell, Marguerite G., executrix. (See Miller, Daniel K.)
Campbell, Robert C., Millburn, N. J., assignor to United Filters Corporation, New York, N. Y. Filter. No. 1,430,518; Sept. 26.
Candlot, Charles, Paris, France. Furnace-drawing apparatus for lime kilns, cement kilns, and the like. No. 1,429,925; Sept. 26.
Canion Air Brake Company. (See Canion, William G., assignor.)
Canion, William G., Baltimore, Md., assignor to Canion Air Brake Company, Bisbee, Ariz. Compound air brake. No. 1,430,357; Sept. 26.
Canion, William G., Baltimore, Md., assignor to Canion Air Brake Company, Bisbee, Ariz. Compound air brake. No. 1,430,358; Sept. 26.
Canion William G., Baltimore, Md., assignor to Canion Air Brake Company, Bisbee, Ariz. Compound air brake. No. 1,430,359; Sept. 26.
Carapina, Matt, and F. Nevistich, Terry, S. Dak. Rail joint. No. 1,430,055; Sept. 26.
Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Making socket-wrench heads. No. 1,430,004; Sept. 26.
Carnegie, Alfred Q. (See Parsons, C. A., Carnegie, Bone, and Cook.)
Carre, Francis D., Rockford, Ill. Combined truck and workbench. No. 1,429,926; Sept. 26.
Carrie, James, Butler, Pa., assignor to W. D. Sawyer, Milwaukee, Wis. Grinding and polishing machine. No. 1,430,214; Sept. 26.
Carson, Robert M., and J. J. Leahy, Philadelphia, Pa. Fabric. No. 1,430,360; Sept. 26.
Carter, Lionel A., assignor of one-third to T. O. Maloney and one-third to J. J. Mullen, St. Louis, Mo. Transformer casing. No. 1,429,927; Sept. 26.
Carter, Winthrop L., Nashua, N. H. Method of and apparatus for waxing paper. No. 1,429,928; Sept. 26.
Catella, Robert, Woodlawn, N. Y. Bottle stopper. No. 1,429,929; Sept. 26.
Cattoor, Joe M., Eaton, Colo. Rope machine. No. 1,430,519; Sept. 26.
Cayce, Robert D., Nashville, Tenn. Moistening device. No. 1,430,492; Sept. 26.
Celluloid Company, The. (See Lindsay, William G., assignor.)
Chicago Railway Equipment Company. (See Busse, E. G., and Van Sweringen, assignors.)
Christenson, Ernst, assignor of one-fourth to W. I. Smith, Stockton, Kans. Car door. No. 1,430,056; Sept. 26.
Christopher, Ora E. (See Flatter, C. E., and Christopher.)
Cinch Fastener Corporation. (See Vodicka, John, assignor.)
Clark, Francisco, Durango, Mexico. Safety bottle. No. 1,430,035; Sept. 26.
Clarke, James R., et al. (See Woegerer, Carl V., assignor.)
Clarke, William H., et al. (See Woegerer, Carl V., assignor.)
Clausen, William C., Wauwatosa, assignor to Milwaukee Stamping Co., West Allis, Wis. Bag frame. No. 1,430,057; Sept. 26.
Cock, Frederick D. (See Lodge, Edwin W., assignor.)
Coen Company. (See Blankenhorn, George S., assignor.)
Coffey, Edward P., Spokane, Wash. Rim tool. No. 1,430,058; Sept. 26.
Coggin, Frank F., et al. (See McLaughlin, Milton P., assignor.)
Commercial Wireless & Development Company. (See Pridham, E. S., and Jensen, assignors.)
Cook, John W., Miami, Fla. Rock cutting machine. No. 1,430,493; Sept. 26.
Cook, Stanley S. (See Parsons, C. A., Carnegie, Bone, and Cook.)
Copeman, Lloyd G., assignor to E. W. Atwood, Flint, Mich. Refrigerating apparatus. No. 1,430,153; Sept. 26.
Copeman, Lloyd G., assignor to E. W. Atwood, Flint, Mich. Refrigerating apparatus. No. 1,430,154; Sept. 26.
Corbett, Martin S., Glassboro, N. J. Automobile tire. No. 1,430,436; Sept. 26.
Corcoran Victor Company, The. (See Diesel, C. J., and Jackson, assignors.)
Cordwell, William, and D. Barker, Manchester, England. Cotton-combing machine. No. 1,430,286; Sept. 26.
Correll, Percy E., Sydney, New South Wales, Australia. Optical projection apparatus applicable particularly to optical projection lanterns, cinematograph projectors, and the like. No. 1,430,494; Sept. 26.
Corwin, Ira E., Jerome, Ariz. Tire lock for locomotive wheels. No. 1,430,215; Sept. 26.
Coughran, Samuel J., Buena Park, Calif. Dual spring suspension. No. 1,430,495; Sept. 26.
Courtoy, Fernand, Brussels, Belgium. Coal washer. No. 1,430,216; Sept. 26.

Creamery Package Mfg. Company, The. (See Valerius, T. L., and Larsen, assignors.)
Creamery Package Mfg. Company, The. (See Valerius, Theodore L., assignor.)
Creel, Willie C., Hemingway, S. C. Fertilizer distributor. No. 1,430,155; Sept. 26.
Crippen, Fred N., Pasadena, Calif. Tubing bleeder. No. 1,430,217; Sept. 26.
Crompton, Randolph, W. E. Woodman, and R. J. Adams, Worcester, Mass.; said Woodman and Adams assignors to said Crompton. Magazine for weft-replenishing looms. No. 1,430,005; Sept. 26.
Crook, Charles M., Chicago, Ill. Time indicator. No. 1,430,437; Sept. 26.
Crowell, Charles H., Brooklyn, N. Y. Container. No. 1,430,287; Sept. 26.
Crowell, Charles H., Brooklyn, N. Y. Shipping container. No. 1,430,288; Sept. 26.
Cubitt, Archibald S., London, England. Lamp-shade-tilting device. No. 1,430,156; Sept. 26.
Cullison, John P., Columbus, Ohio. Valve. No. 1,430,361; Sept. 26.
Currier, Henry C., Millers Falls, Mass. Snubbing machine. No. 1,429,930; Sept. 26.
Dahmer, John W., Festus, Mo. Vegetable slicer. No. 1,430,289; Sept. 26.
Dalrymple, Philip W., Baltimore, Md., assignor to L. K. Davis, Washington, D. C. Tread. (Reissue.) No. 15,458; Sept. 26.
Dalton Adding Machine Company, The. (See Landsiedel, Harry, assignor.)
Davidson, John, jr., Montclair, N. J., assignor to American Telephone and Telegraph Company. Signaling circuits for toll lines. No. 1,429,931; Sept. 26.
Davis, Lewis K. (See Dalrymple, Philip W., assignor.) (Reissue.)
Dawson, Frederick G., Detroit, Mich. Electric forging and heat-treating furnace. No. 1,430,438; Sept. 26.
Day, Wallace. (See Evans, C. P., Greenstreet, and Day.)
Dayton Display Fixture Company, The. (See Allen, Erhard, assignor.)
Deeks, Hiram C. J., Sea Cliff, assignor to American Raylo Corporation, New York, N. Y. Color photography. No. 1,430,059; Sept. 26.
Deeks, Hiram C. J., Sea Cliff, assignor to American Raylo Corporation, New York, N. Y. Color photography. No. 1,430,060; Sept. 26.
Deeks, Hiram C. J., Sea Cliff, assignor to American Raylo Corporation, New York, N. Y. Color photography. No. 1,430,061; Sept. 26.
Delco-Light Company. (See Kettering, Charles F., assignor.)
De Leeuw, Adolph L., Plainfield, N. J. Mechanical movement. No. 1,430,496; Sept. 26.
Del Vecchio, Fred. (See Rose, James F., assignor.)
De Markus, Louis, Montrose, assignor to McKenna Brass & Manufacturing Company, Inc., Pittsburgh, Pa. Controlling system. No. 1,430,290; Sept. 26.
Demuth, Alfred M., assignor to Demuth Manufacturing Company, Chicago, Ill. Steam table for food. No. 1,430,006; Sept. 26.
Demuth Manufacturing Company. (See Demuth, Alfred M., assignor.)
Denson, Benjamin E., Columbus, Ga. Traction-increasing device. No. 1,430,291; Sept. 26.
Denver Rock Drill Manufacturing Company, The. (See Nell, Gustave M., assignor.)
Deschauer, Alfons, Bonn, Germany. Chlorination of Montan wax. No. 1,429,932; Sept. 26.
Dessard, Jean, Herstal-lez-Liege, Belgium. Hammerless small arm. No. 1,430,218; Sept. 26.
Devendorf, Don. (See Noel, John S., assignor.)
Devereux, William G., San Mateo, Calif. Agitator for liquid materials. No. 1,430,362; Sept. 26.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Attachment for sewing machines. No. 1,429,933; Sept. 26.
De Voe, Albert H., Westfield, N. J. Toy. No. 1,430,062; Sept. 26.
Dicks, Thomas A., Wilkinsburg, Pa. Work clamping and cushioning attachment for pneumatic hammers. No. 1,430,292; Sept. 26.
Dickson, George E., Evanston, Ill. Device for providing railway-accident insurance. (Reissue.) No. 15,459; Sept. 26.
Diesel, Conrad J., and W. C. Jackson, assignor to The Corcoran Victor Company, Cincinnati, Ohio. Polishing holder. No. 1,430,063; Sept. 26.
Disbrow, Clarkson A., assignor to The Rail Joint Company, New York, N. Y. Sectional insulation for rail joints. No. 1,429,934; Sept. 26.
Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Rail joint. No. 1,429,935; Sept. 26.
Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Fabricated rail joint. No. 1,429,936; Sept. 26.
Disston, Henry, & Sons, Incorporated. (See Rogers, George L., assignor.)
Dodge, Charles J., Brooklyn, N. Y. Sound amplifier for phonographs and making the same. No. 1,429,937; Sept. 26.
Dodge, Milton L., Newburyport, Mass. Counter stiffener. No. 1,430,158; Sept. 26.
Dodge, Milton L., Newburyport, Mass. Making turn shoes. No. 1,430,157; Sept. 26.
Doerfling, William F., Galt, Ontario, Canada. Heating apparatus. No. 1,430,159; Sept. 26.
Dolley, Charles S., Nelson, N. H. Process and apparatus for applying and shaping plastic material. No. 1,430,363; Sept. 26.
Dominguez, Zacarias, Los Angeles, Calif. Tractor plow implement. No. 1,430,219; Sept. 26.
Donop, August W., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Compressible rheostat. No. 1,430,007; Sept. 26.
Dornier, Claudius, Friedrichshafen, Germany. Flying-machine structure. No. 1,430,220; Sept. 26.
Dorr Company, The. (See Peck, Charles L., assignor.)
Douglas, M. D., administrator. (See Bush, Hazel B.)
Drabenstott, Glenn H., Wooster, Ohio. Refillable electric fuse. No. 1,429,938; Sept. 26.
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Dreyfus, Henry, London, England. Manufacture of acetic anhydride. No. 1,430,304; Sept. 26.
Dukas, James K., Edwardsville, Pa. Fishing net. No. 1,430,221; Sept. 26.
Eddy, Albert H., Edgewood Station, R. I. Separable button. No. 1,430,008; Sept. 26.
Eddy, Edgar D., Ottawa, Ontario, Canada. Grain and seed grader and separator. No. 1,430,293; Sept. 26.
Eddy, Edwin J., Otahuhu, Auckland, New Zealand. Collapsible core for hollow concrete walls. No. 1,430,439; Sept. 26.
Eddy, Harold C., Los Angeles, assignor to Petroleum Rectifying Company of California, San Francisco, Calif. Adjustable field hydrator. No. 1,430,295; Sept. 26.
Eddy, Harold C., Los Angeles, assignor to Petroleum Rectifying Company of California, San Francisco, Calif. Double field dehydrator. No. 1,430,296; Sept. 26.
Eddy, Harold C., Los Angeles, and J. T. Worthington, Whittier, assignors to Petroleum Rectifying Company of California, San Francisco, Calif. Dehydrator. No. 1,430,294; Sept. 26.
Edwards, John. (See Brautigan, Josef, assignor.)
Eggert, Gustav B., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Apparatus for cooling bread and for similar operations. No. 1,430,160; Sept. 26.
Eichman, Arthur W., assignor to A. Mueller, trustee, Decatur, Ill. Combined seat and table. No. 1,429,939; Sept. 26.
Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B., assignor.)
Elia, Giovanni, E., New York, N. Y. Apparatus for detecting and indicating the presence of submarine boats. No. 1,430,162; Sept. 26.
Elia, Giovanni E., New York, N. Y. Mine. No. 1,430,161; Sept. 26.
Elliott, Charles M., Missler, Kans. Driving attachment for thrashers. No. 1,430,440; Sept. 26.
Emerson-Brantingham Company. (See Waterman, L. E., Traphagen, and Waterman, assignors.)
Engberg, Waldemar, Anchorage, Alaska. Tool. No. 1,430,497; Sept. 26.
Erb, Christ, Belleville, Wis. Safety starting crank. No. 1,430,064; Sept. 26.
Eucken, Eduard, Alzey, Germany. Transmission means. No. 1,430,305; Sept. 26.
Eustice, Edward A., Galesburg, Ill. Washing machine. No. 1,430,065; Sept. 26.
Eustis, J. P., Manufacturing Company. (See Watson, W. A., and Eustis, assignors.)
Eustis, Warner. (See Watson, W. A., and Eustis.)
Evans, Arthur B., and R. P. Payne, Leeds, England. Sheet-feeding mechanism for printing presses. No. 1,430,223; Sept. 26.
Evans, Arthur B., West Perth, Western Australia, Australia. Means for completing the vaporization and homogenization of mixture delivered by a carburetor. No. 1,430,222; Sept. 26.
Evans, Clyde P., St. Louis, M. L. Greenstreet and W. Day, Maplewood, Mo.; said Greenstreet and said Day assignors to said Evans. Annunciator. No. 1,430,364; Sept. 26.
Evans, Edwin R., assignor of one-half to B. F. Everitt, Detroit, Mich. Air cleaner. No. 1,430,066; Sept. 26.
Everitt, Byron F. (See Evans, Edwin R., assignor.)
Farbwerke vorm. Meister Lucius & Bruning. (See Bockmühl, M., and Schwarz, assignors.)
Farmer, Albert T. (See Parker, Charles A., assignor.)
Ferguson, Patrick A. (See Roth, A., and Ferguson.)
Ferris, Walter, Milwaukee, and S. R. W. M. Bager, assignors to Bucyrus Company, South Milwaukee, Wis. Rope-thrusting shovel. No. 1,430,297; Sept. 26.
Ferris, Walter, Milwaukee, and S. R. W. M. Bager, assignors to Bucyrus Company, South Milwaukee, Wis. Rope-thrusting shovel. No. 1,430,298; Sept. 26.
Field, Eligah H., assignor of one-half to J. T. Scales, Buford, Ga. Fire alarm. No. 1,430,067; Sept. 26.
Field, William A., Chicago, Ill. Adjustable handle. No. 1,429,940; Sept. 26.
Filkins, Arthur J., Chicago, Ill. Chimney. No. 1,430,068; Sept. 26.
Finney, George S., assignor of one-half to B. D. Adsit, Chicago, Ill. Composite-sheet body. No. 1,430,365; Sept. 26.

Fisher, George E., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Machine for treating fruit. No. 1,430,069; Sept. 26.
Fitz Simons, Samuel G., Charleston, S. C. Auto fender. No. 1,430,224; Sept. 26.
Flamm, Oswald, Nicolassee, near Berlin, Germany. Submarine boat. No. 1,429,941; Sept. 26.
Flatter, Carl E., and O. E. Christopher, Anderson, assignors of one-third to L. Flatter, Muncie, Ind. Mixing device. No. 1,430,299; Sept. 26.
Flatter, Luther. (See Flatter, C. E., and Christopher, assignors.)
Fleck, Louis L., New York, N. Y., assignor to Alexander Hamilton Institute. Temporary binder. No. 1,430,366; Sept. 26.
Flynn, Francis K. (See Wilkes, F. C. D., and Flynn.)
Forcier, George J., Cleveland, Ohio. Wall-paper cleaner. No. 1,430,225; Sept. 26.
Ford, Clarence W. (See Bossé, A. E., and Ford.)
Ford, Henry, Dearborn, Mich. Rear-axle construction. No. 1,430,367; Sept. 26.
Forsberg, Canute H. and C. W., Patton, Pa. Scraper attachment for various brushes. No. 1,430,441; Sept. 26.
Forsberg, Carl W. (See Forsberg, Canute H. and C. W.)
Forster, Conrad. (See Forster, Heinrich, assignor.)
Forster, Heinrich, Bruggen, Switzerland, assignor of one-half to C. Forster, Dedham, Mass. Imparting transparent effects to cotton. No. 1,430,163; Sept. 26.
Francis, Charles W., Paterson, N. J., assignor to Gillespie Eden Corporation. Oil guard. No. 1,429,942; Sept. 26.
Frackelton, Henry A., Schenectady, N. Y. Gauge cock. No. 1,430,368; Sept. 26.
François, Albert, Hatfield, near Doncaster, England. Making fissured water-bearing strata water-tight. No. 1,430,306; Sept. 26.
Franklin, Charles J., assignor to Camden Curtain & Embroidery Company, Camden, N. J. Stop motion for sewing machines. No. 1,430,498; Sept. 26.
Franzwa, Charles F., Eau Claire, Wis. Spatulating device. No. 1,430,070; Sept. 26.
Friberg, Alger R., Appleton, Wis. Neck yoke. No. 1,430,071; Sept. 26.
Fried. Krupp Aktiengesellschaft. (See Schürmann, Richard, assignor.)
Frolaset Corset Company. (See Siegel, Joseph, assignor.)
Fulcra Tan Company. (See Tullis, John K., assignor.)
Funk, Henry C., Grant Township, Riley County, Kans. Removable-tine pitchfork. No. 1,430,369; Sept. 26.
Galbraith, John, St. Paul, Minn. Sanding machine. No. 1,430,370; Sept. 26.
Gas Turbine Corporation. (See Harper, William, jr., assignor.)
Gats, John B., assignor to A. M. Searles, Chicago, Ill. Visor for automobiles. No. 1,430,499; Sept. 26.
Gesas, Michael, trustee. (See Sheras, Morris, assignor.)
Geyer, John F., Philadelphia, Pa. Machine for filling bottles, etc. (Reissue.) No. 15,460; Sept. 26.
Gibson, William E. F., assignor of one-half to A. Johnston, Vancouver, British Columbia, Canada. Automobile signaling device. No. 1,430,442; Sept. 26.
Gierse, Fred, Beaumont, Tex. Well-drilling bit. No. 1,430,072; Sept. 26.
Gillespie Eden Corporation. (See Francis, Charles W., assignor.)
Glinn, Percy E. (See Horton, Charles, assignor.)
Gipson, Charles W. (See Hamilton, Clarence F., assignor.)
Gluck, Julius. (See Heindrich, F., and Gluck.)
Gobetz, Lafayette C., Brooklyn, N. Y. Alarm mechanism for radiator tanks. No. 1,430,073; Sept. 26.
Goodreau, Evarist, Cordova, Alaska. Vise. No. 1,430,226; Sept. 26.
Gould & Eberhardt. (See Zimmermann, William F., assignor.)
Grafton, Eugene H., Los Angeles, Calif. Bearing. No. 1,430,074; Sept. 26.
Grasselli Chemical Company. (See Howard, Henry, assignor.)
Gray, Arthur D. (See Plummer, Frederick A., assignor.)
Gray, Percy W. (See Taylor, Alfred and H. D., and Gray.)
Great Northern Paper Company. (See Allen, Carlton H., assignor.)
Green, Leslie P., Chicago, Ill. Excavator. No. 1,430,076; Sept. 26.
Green, Leslie P., Chicago, Ill. Scraper. No. 1,430,075; Sept. 26.
Greenstreet, Milfred L. (See Evans, C. P., Greenstreet, and Day.)
Grenier, Henry J., Fairfield, Conn. Cue-tip fastener. No. 1,430,500; Sept. 26.
Griffoul, Henry, New Brighton, Pa. Wet-sand sifter. No. 1,430,443; Sept. 26.
Griffoul, Henry, New Brighton, Pa. Spring wheel. No. 1,430,444; Sept. 26.
Grimes, Claymon C., Idria, Calif. Ore-treating furnace. No. 1,430,445; Sept. 26.
Grow, William H., Grafton, W. Va. Car brake. No. 1,430,501; Sept. 26.
Haggett, Hiram R., Lynn, Mass. Skiving machine. No. 1,430,077; Sept. 26.
Halley, John R., Nashville, Iowa. Coin and stamp box. No. 1,430,307; Sept. 26.
Hamilton, Clarence F., assignor of one-half to C. W. Gipson, Peru, Ind. Lawn rake. No. 1,430,227; Sept. 26.
Haney, Frank C., Powell, Wyo. Bearing-sleeve extractor. No. 1,430,164; Sept. 26.
Hanson, William, Los Angeles, Calif. Automatic gas valve. No. 1,430,502; Sept. 26.
Hardwicke-Etter Company. (See Hooton, Claude A., assignor.)
Harper, William, jr., assignor, by mesne assignments, to Gas Turbine Corporation, New York, N. Y. Combustion-engine valve mechanism. No. 1,429,943; Sept. 26.
Harpham Brothers Company. (See Lene, Reinhold S., assignor.)
Harris, Ford W., assignor to Petroleum Rectifying Company of California, San Francisco, Calif. Dehydrator. No. 1,430,300; Sept. 26.
Harris, Ford W., Los Angeles, assignor to Petroleum Rectifying Company, San Francisco, Calif. Starter for electrical dehydrators. No. 1,430,301; Sept. 26.
Harris, Ford W., Los Angeles, Calif., assignor to Petroleum Rectifying Company. Automatic dehydration. No. 1,430,302; Sept. 26.
Harris, Joseph B., Cleveland, Ohio. Door-controlling mechanism. No. 1,430,228; Sept. 26.
Harry, Robert J., Munhall, and C. S. Proudfoot, Johnstown, Pa. Crane trolley. No. 1,430,009; Sept. 26.
Hartman, Harry B., assignor to Electric Water Steriliser and Ozone Company, Scottdale, Pa. Pressure mixing device for raw water and ozone. No. 1,430,303; Sept. 26.
Hartog, Stephen D., St. Louis, Mo. Piston for hydrocarbon engines. No. 1,430,010; Sept. 26.
Hartung, Edmund, Jersey City, N. J. Butter-cutting machine. No. 1,430,078; Sept. 26.
Harvey, Charles J., Kidderminster, England. Walking mechanism for toys and other articles. No. 1,430,371; Sept. 26.
Hauser, Alois, and M. T. Lothrop, assignors to The Timken Roller Bearing Company, Canton, Ohio. Rotary stamping device. No. 1,429,944; Sept. 26.
Haviside Company. (See Hrann, H. H., and Tenbrook, assignors.)
Hawaiian Pineapple Company. (See Fisher, George E., assignor.)
Hawaiian Pineapple Company. (See Stanley, Albert E., assignor.)
Hawaiian Pineapple Company. (See Wilberts, Martin E., assignor.)
Hayward, Harvey R., Akron, Ohio. Toy. No. 1,430,503; Sept. 26.
Heath, Frank, National City, Calif. Sardine-turning apparatus. No. 1,430,011; Sept. 26.
Heath, George S., Chicago, Ill. Throttle and horn control apparatus. No. 1,430,229; Sept. 26.
Heddon's, Jas., Sons. (See Stolley, William A., assignor.)
Heindrich, Frances, and J. Gluck, New York, N. Y. Sewing-machine attachment. No. 1,430,165; Sept. 26.
Heiser, Lucien, Los Angeles, Calif. Machine for mixing, kneading, mashing, cooking, or chopping substances. No. 1,430,012; Sept. 26.
Hennessy, Francis W., Providence, R. I. Roof-edging device. No. 1,430,446; Sept. 26.
Hennessy, James J., New York, N. Y. Journal lubricator. No. 1,430,372; Sept. 26.
Hennings, Charles H., Chicago, Ill. Gasket cutter. No. 1,430,373; Sept. 26.
Hensel, William F., Chicago, Ill. Stabilizer. No. 1,430,374; Sept. 26.
Hern, Albert H. F., London, England. Lifting jack. No. 1,429,945; Sept. 26.
Herr, Park A., Hillside, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Bobbin-winding machine. No. 1,430,079; Sept. 26.
Hicks, William D., Los Angeles, Calif. Lath. No. 1,430,080; Sept. 26.
Hiett, William S., assignor of one-fourth to C. Hutcheson, one-fourth to W. D. Hutcheson, and one-fourth to J. F. Hutcheson, Temple, Ga. Plowstock. No. 1,430,504; Sept. 26.
Hill, Edith M., Melrose, assignor, by mesne assignments, to J. E. Hill, Melrose Highlands, Mass. Milk-bottle cap. No. 1,430,308; Sept. 26.
Hill, John E. (See Hill, Edith M., assignor.)
Hinchman, Alva K., assignor of one-half to C. H. Quimby, Philadelphia, Pa. Governor valve for steam engines. No. 1,430,505; Sept. 26.
Hinckley, Harold, Bangor, Me. Stripping means for pressure rolls. No. 1,430,166; Sept. 26.
Hine, Charles W. C., Dorking, England. Buffer and other springs constructed of india rubber. No. 1,430,230; Sept. 26.
Hodge, George O., Bristol, assignor to The New Britain Machine Company, New Britain, Conn. Power-operated farming implement. No. 1,429,946; Sept. 26.
Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil stove. No. 1,430,375; Sept. 26.
Holler, Albert R., Erie, Pa. Pistol-holding device. No. 1,430,081; Sept. 26.
Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Clutch-controlling mechanism. No. 1,430,520; Sept. 26.
Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. No. 1,430,521; Sept. 26.
Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. No. 1,430,522; Sept. 26.

Holmstrom, Frank, jr., Chicago, Ill., assignor, by mesne assignments, to C. R. Bennett, Kansas City, Mo. Telephone reproducer. No. 1,430,082; Sept. 26.
Holton, Birchard E., Los Angeles, Calif. Nozzle for air brushes. No. 1,430,506; Sept. 26.
Holzapfel, Albert C., New York, N. Y. Coating composition. No. 1,430,083; Sept. 26.
Hooton, Claude A., assignor to Hardwicke-Etter Company, Sherman, Tex. Gin attachment. No. 1,429,947; Sept. 26.
Hoover Company, The. (See Owen, Ernest V., assignor.)
Hopewell Brothers. (See Hopewell, Charles F., assignor.)
Hopewell, Charles F., assignor to Hopewell Brothers, Watertown, Mass. Windshield visor. No. 1,430,231; Sept. 26.
Hopkins, Lloyd and M., Wyco, W. Va. Folding draft or blower plate. No. 1,430,013; Sept. 26.
Hopkins, McKinney. (See Hopkins, Lloyd and M.)
Hopmann, Charles H., St. Louis, Mo. Form for concrete columns. No. 1,430,376; Sept. 26.
Hops, Harold T., Acampo, Calif. Oil gauge. No. 1,430,377; Sept. 26.
Hornburg, Louis A., Omaha, Nebr. Bleeding valve. No. 1,430,507; Sept. 26.
Horton, Charles, Brooklyn, N. Y., assignor to P. E. Ginn, Boston, Mass. Machine for making paper boxes. No. 1,430,232; Sept. 26.
Hosceit, William J., Chicago, Ill. Car-door-operating mechanism. No. 1,430,378; Sept. 26.
House, James A., Dyer, Tenn. Steering gear. No. 1,430,448; Sept. 26.
House, Thomas M., and H. R. McConnell, Richmond, assignor to Seward Trunk and Bag Company, Petersburg, Va. Trunk-riveting machine. No. 1,430,447; Sept. 26.
Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Preparing aluminum-chloride crystals. No. 1,430,449; Sept. 26.
Howard, Russell B., Windham, Vt. Replaying device for talking machines. No. 1,430,450; Sept. 26.
Hoynesite Explosives Company. (See Werner, Edward M., assignor.)
Hubbell, Harvey, Bridgeport, Conn. Combination mirror and light shield. No. 1,430,379; Sept. 26.
Hudson Manufacturing Company. (See Abendroth, Elmer T., assignor.)
Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Electrical apparatus. No. 1,429,948; Sept. 26.
Humphries, John S. (See Poston, F. E., and Humphries.)
Hunt, Marshall E., Belle Plaine, Iowa. Treating and restoring used storage batteries. No. 1,430,167; Sept. 26.
Hutcheson, Carrie, et al. (See Hiett, William S., assignor.)
Hutcheson, Joseph F., et al. (See Hiett, William S., assignor.)
Hutcheson, Willard D., et al. (See Hiett, William S., assignor.)
Hydro-Carbon Burner Manufacturing Company. (See Syme, David M., assignor.)
Hyman, Thomas J., Oak Park, Ill. Check-writing machine. No. 1,430,014; Sept. 26.
Iannelle, Louis, Newton, Mass. Fastening device for detachable shoe heels. No. 1,430,168; Sept. 26.
Icher, Joseph, Sagamore, Pa. Screen door. No. 1,430,015; Sept. 26.
Igoe Brothers. (See Tubbs, Earl D., assignor.)
Independent Milking Machine Company. (See Morgan, W., and Muckle, assignors.)
Ingram, Alfred and H., Brooklyn, assignors to Ingrams Incorporated, New York, N. Y. Closure for jars, bottles, and other receptacles. No. 1,430,084; Sept. 26.
Ingram, Harry. (See Ingram, Alfred and H.)
Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)
Innis, Robert D., Marion, Ind. Dirigible headlight for motor vehicles. No. 1,430,380; Sept. 26.
Irvin, Willis J. (See Barber, W. J., and Irvin.)
Jackson, William C. (See Diesel, C. J., and Jackson.)
Jacobs, Frederick A., Richmond Hill, N. Y. Tank-testing apparatus. No. 1,429,949; Sept. 26.
Jaeck, Oscar. (See Jenny, G., and Jaeck.)
Jakubowski, Joseph S., Wilmington, Del. Vehicle wheel. No. 1,430,233; Sept. 26.
Jeffrey Manufacturing Company, The. (See Holmes, Morris P., assignor.)
Jenny, Georges, and O. Jaeck, assignors to Swiss Ferment Company, Ltd., Basel, Switzerland. Degumming textile materials. No. 1,430,523; Sept. 26.
Jensen, Peter L. (See Pridham, E. S., and Jensen.)
Jirka, Joseph F. (See Kovar, F. T., and Jirka.)
Johnson, Herbert, New York, assignor of one-half to W. H. White, Brooklyn, N. Y. Spring-equalizer device for vehicles. No. 1,430,381; Sept. 26.
Johnson, John, New York, N. Y. Corner bead. No. 1,430,508; Sept. 26.
Johnson, Mary L. E., et al. (See Camelo, Nicholas, assignor.)
Johnson, Otto, Freeland, Mich. Fence. No. 1,430,382; Sept. 26.
Johnston, Andrew. (See Gibson, William E. F., assignor.)
Jones, John G., and O. W. Rose, St. Louis, Mo.; said Rose assignor to said Jones. Shampoo device. No. 1,429,950; Sept. 26.
Jones, Merton, Chicago, Ill. Displaying device. No. 1,430,509; Sept. 26.
K-D Barrel and Hamper Co. (See Walker, Joseph L., assignor.)
Kafka, Oscar, New York, N. Y. Necktie. No. 1,429,951; Sept. 26.
Kearney, John A., Wilson, N. C. Holddown device. No. 1,429,952; Sept. 26.
Keeran, Charles R., Chicago, Ill. Receptacle closure. No. 1,430,169; Sept. 26.
Keeth, James, Spokane, Wash. Treating biotite. No. 1,430,085; Sept. 26.
Keithline, Joseph S., Askam, Pa. Filter. No. 1,430,234; Sept. 26.
Kelley, James W., Oakville, Ontario, Canada. Bicycle crank-hanger construction. No. 1,430,285; Sept. 26.
Kenner, John, Herrin, Ill. Automatic switch. No. 1,430,510; Sept. 26.
Kettering, Charles F., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Engine. No. 1,430,524; Sept. 26.
Kinnard, Frank M., assignor of one-half to C. L. Sebring, Sebring, Ohio. Spreader. No. 1,430,309; Sept. 26.
Kitchen, John G. A., Lancaster, England. Pneumatic tire. No. 1,430,236; Sept. 26.
Kittel, George P., Union Hill, N. J. Vaporizer for fuel heaters and burners. No. 1,430,383; Sept. 26.
Knee, Aaron A. (See Barefoot, J. C., and Knee.)
Koltunski, Michal, Chicago, Ill. Folding-bed table. No. 1,430,016; Sept. 26.
Komarek, Gustav, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo. Fluxer for fuel-briquette material. No. 1,430,384; Sept. 26.
Komarek, Gustav, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo. Milling machine. No. 1,430,385; Sept. 26.
Komarek, Gustav, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo. Treating fuel for briquetting purposes. No. 1,430,386; Sept. 26.
Kottmeyer, Killianus, Milwaukee, Wis. Banjo attachment. No. 1,430,086; Sept. 26.
Kovar, Frank T., and J. F. Jirka, Cleveland, Ohio. Safety switch. No. 1,430,087; Sept. 26.
Krall, Joseph F., Chicago, Ill. Surface-finishing implement. No. 1,430,387; Sept. 26.
Krase, Norman W., Clarendon, Va. Manufacture of urea from ammonia and carbon dioxide. No. 1,429,953; Sept. 26.
Krebitz, Peter, Munich, Germany. Removal of soap contained in the sludge of carbonate of lime. No. 1,430,017; Sept. 26.
Kuersten, William. (See Willmann, E. F., and Kuersten.)
Kuhns, Howard F., Allentown, Pa. Safety attachment for washing machines. No. 1,430,237; Sept. 26.
Kummeth, Frank J., Heron Lake, Minn. Stringed musical instrument. No. 1,429,954; Sept. 26.
Labadie, William D., assignor to W. Bandurski, Chicago, Ill. Corn popper. No. 1,430,511; Sept. 26.
La Borde, Hillard P., Driftwood, Pa. Fastening device. No. 1,430,238; Sept. 26.
Lambiln, Alexandre, Paris, France. Radiator for motor cars and the like. No. 1,430,170; Sept. 26.
Lampman, Herman W., Angola, Ind. Lock for automobiles. No. 1,430,239; Sept. 26.
Landsiedel, Harry, Norwood, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding, calculating, and recording machine. No. 1,430,088; Sept. 26.
Langlais, Archie, Los Angeles, Calif. Hair cutter. No. 1,430,512; Sept. 26.
Larmonth, John H., Montreal, Quebec, Canada, assignor of one-half to V. C. Armstrong, Hackensack, N. J. Anti-creeper for railway rails. No. 1,430,240; Sept. 26.
Larsen, Olaf. (See Valerius, T. L., and Larsen.)
Lassiter, Charles H., Valentine, Tex. Concrete-casing-making machine. No. 1,430,451; Sept. 26.
Lawson, David L., Orby, Calif. Lubricating attachment for springs. No. 1,430,171; Sept. 26.
Lazaga, Ignacio, Salem, Va. Web feeding and cutting device. No. 1,430,089; Sept. 26.
Leahy, John J. (See Carson, R. M., and Leahy.)
Legat, Robert C. (See Prentice, G. E., and Legat.)
Lego, James C., assignor of one-third to J. K. Smith, North Baltimore, Ohio. Lock nut. No. 1,429,955; Sept. 26.
Lence, John, Regina, Saskatchewan, Canada. Washing, scrubbing, and drying machine. No. 1,430,090; Sept. 26.
Lene, Reinhold S., Lexington, assignor of one-half to Harpham Brothers Company, Lincoln, Nebr. Horse collar. No. 1,430,513; Sept. 26.
Le Rossignol, Robert, Harrow, England, assignor to Patent-Treuhand-Gesellschaft für Elektrische Glühlampen mit beschrankter Haftung, Berlin, Germany. Process and apparatus for sealing lamps. No. 1,430,118; Sept. 26.
Leroy, Jules, Paris, France. Equilibrated device for transforming into circular motion the linear motion of the piston of a motor. No. 1,430,514; Sept. 26.
Leslie, John W., Evanston, Ill. Wire-stretching tool. No. 1,430,388; Sept. 26.
Letsch, Frederick W., Baltimore, Md. Space-band mechanism. No. 1,430,018; Sept. 26.

Lewis, George P., London, England. Combined gas generator and retort apparatus. No. 1,430,452; Sept. 26.
Lewis, George P., London, England. Combined vertical retort and gas-generator apparatus. No. 1,430,453; Sept. 26.
Libbey, C. A., Company. (See Rasmussen, Robert F., assignor.)
Lide, Frank P., Decatur, Ala. Coil-box protector. No. 1,430,241; Sept. 26.
Lillibridge, Harry D., Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., New York, N. Y. Ceramic press. No. 1,430,019; Sept. 26.
Limbach, Russell W., administrator. (See Warder, Walter J., Jr.)
Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Adjustable support. No. 1,430,389; Sept. 26.
Lindsay, William G., Newark, N. J., assignor to The Celluloid Company, Pyroxylin composition and making same. No. 1,430,020; Sept. 26.
Link-Belt Company. (See Petersen, John H. D., assignor.)
Lodge, Edwin W., Norfolk, assignor of one-fourth to F. D. Cock, Hampton, Va. Headlight screen. No. 1,430,390; Sept. 26.
Loebe, Herman E., Jersey City, N. J. Gas heater. No. 1,430,391; Sept. 26.
Low, Frank S., assignor to Niagara Alkali Company, Niagara Falls, N. Y. Chloridizing process and apparatus. No. 1,430,454; Sept. 26.
Lowey, Roy E., Huntington, Ind. Collapsible fruit box. No. 1,430,455; Sept. 26.
Lothrop, Marcus T. (See Hauser, A., and Lothrop.)
Luce Cane Harvester Corporation. (See Wilkes, F. C. D., and Flynn, assignors.)
Lukens, Alan R., Wyoming, assignor to The Richardson Company, Lockland, Cincinnati, Ohio. Colored fibrous composition and manufacture thereof. No. 1,430,392; Sept. 26.
Lux, Leo L., Greeley, Colo. Retaining attachment for operating tables. No. 1,429,956; Sept. 26.
Lynde, Carleton J., Ste. Anne de Bellevue, Quebec, Canada. Dirigible. No. 1,430,393; Sept. 26.
Lyter, Edward J., Lebanon, Pa. Chain-making machine. No. 1,430,456; Sept. 26.
McCaffery, James E., et al. (See McGee, Eugene H., assignor.)
McConnell, Harry R. (See House, T. M., and McConnell.)
McBride, Charles C., Sanger, Calif. Amalgamating cell. No. 1,430,091; Sept. 26.
McGee, Eugene H., assignor of one-fourth to F. L. Barchard and one-fourth to J. E. McCaffery, Chicago, Ill. Automatic display sign. No. 1,430,394; Sept. 26.
McIntire, Charles V., East Orange, N. J., assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Reversing valve for regenerative furnaces. No. 1,430,172; Sept. 26.
McIntosh, Clarence A., Canton, Ohio. Oil-testing apparatus. No. 1,430,310; Sept. 26.
McKenna Brass & Manufacturing Company. (See De Markus, Louis, assignor.)
McLagan, William N., assignor of forty-nine per cent to T. J. Ronin and G. W. Morgan, Sycamore, Ill. Trap nest. No. 1,430,457; Sept. 26.
McLaughlin, Milton P., Wakefield, assignor of one-third to F. F. Coggin, Somerville, and one-third to R. P. Whitcher, Melrose, Mass. Grease-cup plug. No. 1,430,458; Sept. 26.
McMullen, Allen, Kenwood, assignor to Oneida Community, Limited, Oneida, N. Y. Game trap. No. 1,430,242; Sept. 26.
McNamee, Patrick J., New York, N. Y. Ground-gripping device. No. 1,430,243; Sept. 26.
McNulty, John, Gulfport, Miss. Collapsible jacket for foul-air removers. No. 1,430,459; Sept. 26.
McNulty, John, Gulfport, Miss. Foul-air remover. No. 1,430,460; Sept. 26.
McRea, Forbes. (See Appleton, C., and McRea.)
Magnavox Company, The. (See Pridham, Edwin S., assignor.)
Malcolmson Engineering and Machine Corporation. (See Komarek, Gustav, assignor.)
Malin, Lewis P., Long Beach, Calif. Wood-bending machine. No. 1,430,244; Sept. 26.
Malone, Aubrey R., Franklin, Ky. Convertible tone arm. No. 1,430,395; Sept. 26.
Malvick, Peter A., Columbus, Ohio. Hair-cutting machine. No. 1,430,173; Sept. 26.
Mann, Edward J., Rock Township, Woodbury County, Iowa. Harrow. No. 1,430,311; Sept. 26.
Mannhardt, Daniel W., Washington, Iowa. Valve cap. No. 1,430,092; Sept. 26.
Marchus, Amos S., Oakland, Calif. Pressure gauge. No. 1,430,174; Sept. 26.
Mason, Freeman D., Stow Township, Summit County, Ohio, assignor to Bridgewater Machine Company. Collapsible core. No. 1,429,957; Sept. 26.
Mathers, James E. (See Phillips, N. E., and Mathers.)
Mathews, Annie, et al., executors. (See Mathews, Thomas.)
Mathews, Thomas, deceased, Leicester, England; A. Mathews and H. W. Buckingham, executors. Eyes of dolls, toy animals, and the like. No. 1,430,093; Sept. 26.
Mauck, Victor, Norristown, Pa. Munition casing. No. 1,429,958; Sept. 26.
Mazzeri, Peter, Omaha, Nebr. Mute. No. 1,430,175; Sept. 26.
Measuregraph Company, The. (See Turner, Douglas, assignor.)
Meier, Frederick H., Webster City, Iowa. Sectional clay block structure for sewers and drainage. No. 1,430,094; Sept. 26.
Melton, Perry O., Aberdeen, S. Dak. Metallic alloy for repair purposes. No. 1,429,959; Sept. 26.
Meredith, Wynn, Alameda, assignor to Petroleum Rectifying Company, San Francisco, Calif. Central circulation dehydrator for petroleum oils. No. 1,430,245; Sept. 26.
Meredith, Wynn, Alameda, assignor to Petroleum Rectifying Company, San Francisco, Calif. Stratifying dehydrator. No. 1,430,246; Sept. 26.
Merrell, Irving S., assignor to Merrel-Soule Company, Syracuse, N. Y. Desiccated buttermilk. No. 1,430,312; Sept. 26.
Merrell-Soule Company. (See Merrell, Irving S., assignor.)
Meyer, George J., Milwaukee, Wis. Bottle-washing machine. No. 1,429,960; Sept. 26.
Meyer, William, Chicago, Ill. Therapeutic apparatus. No. 1,430,095; Sept. 26.
Meyer, William, Chicago, Ill. X-ray apparatus. No. 1,430,096; Sept. 26.
Michelin, André J., Clermont-Ferrand, France. Valve attachment for pneumatic tires. No. 1,430,461; Sept. 26.
Miglio, Peter, Marseilles, Ill. Miner's lamp. No. 1,430,247; Sept. 26.
Miller, Daniel K., deceased, by M. G. Campbell, executrix, Philadelphia, Pa. Lock. No. 1,430,176; Sept. 26.
Miller, William G., Boston, Pa. Amusement device. No. 1,430,396; Sept. 26.
Mills, Edward F., Lynn, Mass. Pressure gauge. No. 1,430,097; Sept. 26.
Mills, Edward F., Salem, Mass., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y. Pressure controller or instrument. No. 1,430,098; Sept. 26.
Millity, Vlada, Detroit, Mich. Bottle closure. No. 1,430,313; Sept. 26.
Milne, Alexander, assignor to Newark Watch Case Material Company, Newark, N. J. Watch holder. No. 1,430,021; Sept. 26.
Milson, John R., Watertown, assignor to Pioneer Chemical Company, Revere, Mass. Soap. No. 1,430,099; Sept. 26.
Mitchell, Lawrence O., Kansas City, Mo. Tire. No. 1,430,100; Sept. 26.
Mitsareff, Blagoye D., Wolf Point, Mont. Wheel clamp. No. 1,430,177; Sept. 26.
Milwaukee Stamping Co. (See Clausen, William C., assignor.)
Mohun, John L., New York, N. Y. Car roof. No. 1,429,961; Sept. 26.
Moloney, Thomas O., et al. (See Carter, Lionel A., assignor.)
Mombaruzzo, Leuigi. (See Benvissuto, P., and Mombaruzzo.)
Moore, William E., Beaver Falls, Pa. Furnace-charging device. No. 1,430,397; Sept. 26.
Mora, Bernhard. (See Schulthes, C., and Mora.)
Morgan, Guy W., et al. (See McLagan, William N., assignor.)
Morgan, Thomas, Muncie, Ind. Friction clutch. No. 1,429,962; Sept. 26.
Morgan, William, Minneapolis, and C. J. Muckle, St. Paul, Minn., assignors, by mesne assignments, to Independent Milking Machine Company. Milking apparatus. No. 1,430,022; Sept. 26.
Morley, Vivian S., Tankerton, England. Advertising device. No. 1,430,314; Sept. 26.
Morley, Vivian S., Tankerton, England. Advertising device. No. 1,430,315; Sept. 26.
Morrison, J. L., Company, Inc., The. (See Allen, Howard G., assignor.)
Morse, Frank W., assignor of one-half to San Fernando Manufacturing Association, San Fernando, Calif. Furniture spring. No. 1,430,248; Sept. 26.
Morse, Frank W., assignor of one-half to San Fernando Manufacturing Association, San Fernando, Calif. Seat-cushion spring. No. 1,430,249; Sept. 26.
Muckle, Clarence J. (See Morgan, W., and Muckle.)
Mueller, Adolph, trustee. (See Eichman, Arthur W., assignor.)
Mullen, James J., et al. (See Carter, Lionel A., assignor.)
Murray, Arthur H. (See Nelson, Emil A., assignor.)
Namura, Takeo, Walnut Grove, Calif. Tire pump. No. 1,430,250; Sept. 26.
Nasmith, John W., Manchester, England. Combing machine. No. 1,430,023; Sept. 26.
National Brake & Electric Company. (See Beckwith, Raymond A., assignor.)
National Safety Devices Company. (See Woodring, Alberto I., assignor.)
Neabr, Will C., assignor to The Protective Signal Manufacturing Company, Denver, Colo. Lamp support. No. 1,430,101; Sept. 26.
Nebeling, Edmund R., New York, N. Y. Separable fastener. No. 1,430,462; Sept. 26.
Nell, Gustave M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Tool-retaining means. No. 1,430,102; Sept. 26.

Nelson, Emil A., assignor, by mesne assignments, to A. H. Murray, Detroit, Mich. Gasket and making same. No. 1,430,103; Sept. 26.
Nelson, George W., Minneapolis, Minn. Foot-measuring device. No. 1,429,963; Sept. 26.
Nethercut, Edgar S. (See Peterson, Burt A., assignor.)
Nevistich, Frank. (See Carapina, M., and Nevistich.)
Newark Watch Case Material Company. (See Milne, Alexander, assignor.)
New Britain Machine Company, The. (See Hodge, George O., assignor.)
Newton, Richard T., New York, N. Y. Automobile lock. No. 1,430,463; Sept. 26.
Newton, Richard T., New York, N. Y. Bumper attachment means. No. 1,430,464; Sept. 26.
Niagara Alkali Company. (See Low, Frank S., assignor.)
Niblock, Thomas E., Great Falls, Mont. Automatic control of electrical furnaces. No. 1,430,104; Sept. 26.
Nichols, Edgar B., Rochester, N. Y., assignor to American Flyer Mfg. Co., Chicago, Ill. Producing complemental parts. No. 1,430,024; Sept. 26.
Nichterlein, Paul, assignor to Firm Carl Zeiss, Jena, Germany. Optical square. No. 1,430,316; Sept. 26.
Niemuth, Joseph F., Ramsay, Mich. Desk. No. 1,430,465; Sept. 26.
Niles-Bement-Pond Company. (See Parkes, Albert W., assignor.)
Nilson, Nils, Salt Lake City, Utah. Water heater. No. 1,430,466; Sept. 26.
Noel, John S., assignor to D. Devendorf, Grand Rapids, Mich. Kerosene burner. No. 1,430,105; Sept. 26.
Nordstrom, John P., Brooklyn, assignor of one-third to A. N. Spooner and one-third to D. M. Tulloch, New York, N. Y. Pile. No. 1,429,964; Sept. 26.
Normandy, Charles O., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for mounting shoes on lasts. No. 1,430,025; Sept. 26.
Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
Norton, Clarence T., Merrill, Iowa. Clutch-control lever. No. 1,430,317; Sept. 26.
Oakley, John. (See Perkins, J. L., Sickles, and Oakley.)
Ochs, Werner, Bad Liebenstein, Germany. Machine for inserting lacing hooks. No. 1,429,965; Sept. 26.
Ogden, Clarence E., Cincinnati, Ohio. Means for charging storage batteries. No. 1,430,106; Sept. 26.
Ogden, Clarence E., Cincinnati, Ohio. Means for charging storage batteries. No. 1,430,107; Sept. 26.
O'Hern, Daniel, Joliet, Ill. Railway-track crossing. No. 1,430,178; Sept. 26.
Ohio Match Company, The. (See Parker, Lucian E., assignor.)
Olsen, Harry R., St. Paul, Minn. Collapsible gocart. No. 1,429,966; Sept. 26.
Olshin, Samuel J., Yonkers, N. Y. Skylight or ventilated roof. No. 1,429,967; Sept. 26.
Olshin, Samuel J., Yonkers, N. Y. Skylight. No. 1,429,968; Sept. 26.
Olson, Charlie, St. Louis, Mo. Culinary utensil. No. 1,430,318; Sept. 26.
Oneida Community Limited. (See McMullen, Allen, assignor.)
Oswald, Sylvester J., Milwaukee, Wis. Form for concrete construction. No. 1,430,108; Sept. 26.
Otten, Anthony J. (See Stengel, Herman, assignor.)
Otwell, Percy C. (See Schmidt, L. L., Beuchel, and Otwell.)
Owen, Ernest V., assignor to The Hoover Company, Chicago, Ill. Separating hydrocarbon from aluminum chloride. No. 1,430,109; Sept. 26.
Owens, William H., Evans City, and J. L. Taylor, West View, Pa. Dredge hull. No. 1,430,179; Sept. 26.
Palmer, Everett C., St. Charles, Mo. Pivoted folding table leg. No. 1,429,969; Sept. 26.
Parker, Charles A., Haugan, assignor of one-half to A. T. Farmer, Saltese, Mont. Rail bond. No. 1,430,110; Sept. 26.
Parker, John W., Detroit, Mich. Self-aligning high-speed-ball race bearing. No. 1,430,319; Sept. 26.
Parker, Joseph N., Bedford, Va. Tractor. No. 1,430,251; Sept. 26.
Parker, Lucian E., assignor to The Ohio Match Company, Wadsworth, Ohio. Waste collector for match machines. No. 1,430,111; Sept. 26.
Parkes, Albert W., Dundas, Ontario, Canada, assignor to Niles-Bement-Pond Company, New York, N. Y. Metal shaper. No. 1,431,180; Sept. 26.
Parsons, Charles A., A. Q. Carnegie, M. Bone, Newcastle-upon-Tyne, and Stanley S. Cook, Wallsend-upon-Tyne, England; said Carnegie, said Bone, and said Cook assignors to said Parsons. Blading for turbines. No. 1,430,308; Sept. 26.
Parsons, Charles A., A. Q. Carnegie, M. Bone, Newcastle-upon-Tyne, and Stanley S. Cook, Wallsend-upon-Tyne, England; said Carnegie, said Bone, and said Cook assignors to said Parsons. Manufacture of articles by extrusion. No. 1,430,399; Sept. 26.
Parsons, Charles A., A. Q. Carnegie, M. Bone, Newcastle-upon-Tyne, and S. S. Cook, Wallsend-upon-Tyne, England; said Carnegie, said Bone, and said Cook assignors to said Parsons. Manufacture of blading for turbines. No. 1,430,400; Sept. 26.
Pasch, Charles H., St. Louis, Mo. Welding torch. No. 1,430,026; Sept. 26.
Patent-Treuhand-Gesellschaft für Elektrische Glühlampen mit beschrankter Haftung. (See Le Rossignol, Robert, assignor.)
Pavitt, William H., jr., Brooklyn, assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Settling tank. No. 1,430,181; Sept. 26.
Payne, Raymond P. (See Evans, A. B., and Payne.)
Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Dehydrating activated sludge. No. 1,430,182; Sept. 26.
Peck, John H., Miami, Okla. Pump-rod counterbalance. No. 1,430,467; Sept. 26.
Pelly, Alonzo N., San Francisco, Calif. Calendar device. No. 1,430,112; Sept. 26.
Peralta, Alonzo, Guatemala, Guatemala. Pencil holder. No. 1,430,401; Sept. 26.
Perkins Appliance Company. (See Perkins, J. L., Sickles, and Oakley, assignors.)
Perkins, Julian L., West Springfield, F. W. Sickles, and J. Oakley, assignors to Perkins Appliance Company, Springfield, Mass. Multiple gear-cutting machine. No. 1,430,252; Sept. 26.
Perry, Ernest J., Birmingham, England. Suspension chain for electroliers and for like electrical purposes. No. 1,430,402; Sept. 26.
Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Composite felt and making the same. (Reissue.) No. 15,461; Sept. 26.
Persson, Anton, Calgary, Alberta, Canada. Demountable-wheel-rim mechanism. No. 1,430,253; Sept. 26.
Petersen, John H. D., assignor to Link-Belt Company, Chicago, Ill. Handling coal. No. 1,430,183; Sept. 26.
Peterson, Burt A., Rockford, assignor, by mesne assignments, to E. S. Nethercut, Evanston, Ill. Winder. No. 1,430,254; Sept. 26.
Peterson, Joseph L., Wellsburg, W. Va. Clutch. No. 1,430,468; Sept. 26.
Petroleum Rectifying Company of California. (See Eddy, Harold C., assignor.)
Petroleum Rectifying Company of California. (See Eddy, H. C., and Worthington, assignors.)
Petroleum Rectifying Company of California. (See Harris, Ford W., assignor.)
Petroleum Rectifying Company. (See Meredith, Wynn, assignor.)
Phillips, Norman E., and J. E. Mathers, Washington, D. C. Dirigible headlight for automobiles. No. 1,430,320; Sept. 26.
Pioneer Chemical Company. (See Milson, John R., assignor.)
Pitkin, Arthur F., Schenectady, N. Y. Articulated stay bolt. No. 1,430,321; Sept. 26.
Plantinga, Pierre, Cleveland, Ohio. Oven-wall structure. No. 1,430,027; Sept. 26.
Plummer, Frederick A., Minneapolis, Minn., assignor of one-half to A. D. Gray, Chicago, Ill. Process and apparatus for acting upon milk. No. 1,430,403; Sept. 26.
Poclus, Raphael, Phoenixville, Pa. Manufacture of phenols and the like. No. 1,430,184; Sept. 26.
Poston, Furman E., and J. S. Humphries, Lake City, S. C. Mail carrier. No. 1,430,515; Sept. 26.
Powers, William P., Los Angeles, Calif. Regulator. No. 1,430,113; Sept. 26.
Prentice, George E., Berlin, and R. C. Legat, New Britain, Conn. Buckle for belts. No. 1,430,255; Sept. 26.
Price, Sam. (See Wilson, W., and Price.)
Pridham, Edwin S., Oakland, assignor to The Magnavox Company, San Francisco, Calif. Telephone transmitter. No. 1,430,257; Sept. 26.
Pridham, Edwin S., Oakland, assignor to The Magnavox Co., San Francisco, Calif. Telephone transmitter. No. 1,430,258; Sept. 26.
Pridham, Edwin S, and P. L. Jensen, assignors to Commercial Wireless & Development Company, San Francisco, Calif. Method of and apparatus for telephonically transmitting speech. No. 1,430,256; Sept. 26.
Protective Signal Manufacturing Company, The. (See Neahr, Will C., assignor.)
Proctor & Schwartz, Incorporated. (See Ayres, Elwood B., assignor.)
Proudfoot, Charles S. (See Harry, R. J., and Proudfoot.)
Quimby, Charles H. (See Hinchman, Alva K., assignor.)
Radelet, Fernand and E. Bonnet, Brussels, Belgium. Spike and screw for rails. No. 1,430,259; Sept. 26.
Radford, Mary A., Oakland, Calif. Apparatus for treatment of the feet. No. 1,430,404; Sept. 26.
Rail Joint Company, The. (See Disbrow, Clarkson A., assignor.)
Rainalter, Rudolph, Kansas City, Mo. Washing machine. No. 1,430,322; Sept. 26.
Rankin, Morris S., Mount Ephraim, N. J. Sound reproducer. No. 1,430,185; Sept. 26.
Rasmussen, Robert F., assignor to C. A. Libbey Company, Oshkosh, Wis. Carrier. No. 1,430,186; Sept. 26.
Ratel, Maurice, New York, N. Y. Automatic stoker of the underfeed type. (Reissue.) No. 15,462; Sept. 26.
Rawling, Alden W., San Francisco, assignor to G. D. Bobo, Fairmead, Calif. Vise. No. 1,430,260; Sept. 26.
Reed, Asa E., San Bernardino, Calif. Circular type of power generator. No. 1,429,971; Sept. 26.
Rees, Herbert C., San Antonio, Tex. Lens mount and forming same. No. 1,430,114; Sept. 26.
Reinhardt, Gottlieb, Saginaw, Mich. Poultry feeder. No. 1,430,405; Sept. 26.

Remington Typewriting Company. (See Barney, Edwin E., assignor.)
Repper, Alois, Kladno, Czecho-Slovakia. Hardness-testing apparatus. No. 1,430,261; Sept. 26.
Reynolds, James N., Cleveland, Ohio. Device for bending metal rods or tubes. No. 1,430,323; Sept. 26.
Reynolds, Marion. (See Staggs, F., and Reynolds.)
Reynolds, Richard S., Louisville, Ky. Cigar wrapper. No. 1,430,028; Sept. 26.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Loom shuttle. No. 1,430,187; Sept. 26.
Rhoads, Errett S. (See Ross, V., and Rhoads.)
Rhoads, Harry A., Leetonia, Ohio. Trolley shoe. No. 1,430,188; Sept. 26.
Rhodes, Russell L., Attleboro Falls, Mass. Box. No. 1,430,029; Sept. 26.
Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Desk operator's circuits. No. 1,429,972; Sept. 26.
Richardson Company, The. (See Lukens, Alan R., assignor.)
Richardson, William R. (See Warwick, Charles, assignor.)
Rinaldi, Joseph, New York, N. Y. Liquid-vending machine. No. 1,430,189; Sept. 26.
Rindfusz, Ralph E., Northampton, and Voorhees, assignors to American Writing Paper Company, Holyoke, Mass. Recovering flax fiber. No. 1,430,115; Sept. 26.
Ritzman, Charles H., Dumont, Iowa. Pool-game-tallying device. No. 1,430,262; Sept. 26.
Rivett, Arthur W., St. Louis, Mo. Talking machine. No. 1,430,469; Sept. 26.
Rockford Milling Machine Company. (See Sundstrand, Gustaf D., assignor.)
Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)
Roesch, Alfred, assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Humidity controller. No. 1,429,973; Sept. 26.
Rodebush, Worth H., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Making esters. No. 1,430,321; Sept. 26.
Rodriguez, Alberto, Santiago, Chile. Apparatus for cleaning and collecting smoke from foundry chimneys. No. 1,430,116; Sept. 26.
Rogers, George L., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Sickle. No. 1,430,470; Sept. 26.
Rogers, Robert D., assignor of one-half to G. B. Somerville, Johnstown, Pa. Dumping truck. No. 1,429,974; Sept. 26.
Ronin, Thoms J., et al. (See McLagan, William N. assignor.)
Rose, James F., assignor of one-half to F. Del Vecchio, Bellaire, Ohio. Automobile locking device. No. 1,430,325; Sept. 26.
Rose, Otto W. (See Jones, J. G., and Rose.)
Rosenwasser Bros. Inc. (See Rosenwasser, Morris, assignor.)
Rosenwasser, Morris, New York, assignor to Rosenwasser Bros. Inc., Long Island City, N. Y. Legging. No. 1,430,030; Sept. 26.
Ross, Benjamin, Brooklyn, N. Y. Shank piece for shoes. No. 1,430,190; Sept. 26.
Ross Rhoads Company. (See Ross, V., and Rhoads, assignors.)
Ross, Vernon, and E. S. Rhoads assignors to Ross Rhoads Company, Kansas City, Mo. Store-front construction. No. 1,430,117; Sept. 26.
Roth, Albert, and P. A. Ferguson, Pittsburgh, Pa. Temperature indicator. No. 1,429,975; Sept. 26.
Roszmann, Joseph, Covington, Ky. Permutation lock. No. 1,429,970; Sept. 26.
Rudzik, Martin. (See Windish, Fred, assignor.)
Ruff, Domenick, Youngstown, Ohio. Spring-rewinding machine. No. 1,430,326; Sept. 26.
Rutherford, Nealon D., Lansing, Mich., assignor to United Engine Company. Teat cup for milking machines. No. 1,430,191; Sept. 26.
Safety Car Heating & Lighting Company. (See Hulse, George E., assignor.)
Sage, Edwin R., Baltimore, Md. Refrigeration apparatus. No. 1,430,263; Sept. 26.
San Fernando Manufacturing Association. (See Morse, Frank W., assignor.)
Sauer, Adelbert, Pittsburgh, Pa. Device for effecting the combustion of fuel. No. 1,430,327; Sept. 26.
Savery, Edwin, assignor to Boesch Lamp Company, San Francisco, Calif. Air moistener. No. 1,430,119; Sept. 26.
Sawyer, William D. (See Carrie, James, assignor.)
Scales, James T. (See Field, Elijah H., assignor.)
Schloss, Newton L., New York, N. Y. Locking device and releasing mechanism for door checks. No. 1,430,192; Sept. 26.
Schmidt, Leonard L., T. W. Beuchel, and P. C. Otwell, Belleville, Ill. Signal device for automobiles. No. 1,430,264; Sept. 26.
Schrader's, A., Son, Inc. (See Mills, Edward F., assignor.)
Schryer, Paul F. (See Waring, James H., assignor.)
Schulthes, Carl, Berlin, and B. Mora, Lubeck, Germany. Wind motor. No. 1,430,406; Sept. 26.
Schürmann, Richard, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Sighting device for armored portable guns. No. 1,430,193; Sept. 26.
Schwarz, Adolf. (See Bockmühl, M., and Schwarz.)
Schweinert, Maximilian C., New York, N. Y. Diving dress. No. 1,430,194; Sept. 26.
Scott, George H., Bridgewater, Mass. Jar holder. No. 1,430,328; Sept. 26.
Scoville, Frank F., Schenectady, N. Y. Lateral-motion appliance for locomotive driving boxes. No. 1,430,329; Sept. 26.
Searles, Aaron M. (See Gats, John B., assignor.)
Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
Seaver, James L., St. Louis, Mo. Latch. No. 1,430,330; Sept. 26.
Sebring, Charles L. (See Kinnard, Frank M., assignor.)
Segal, Elias, et al. (See Sheller, John C., assignor.)
Severson, Joseph, Ozone Park, N. Y. Numbering fixture. No. 1,430,407; Sept. 26.
Seward Trunk and Bag Company. (See House, T. M., and McConnell, assignors.)
Sexauer, John A., Sidney, Ohio. Dough-molding machine. No. 1,430,265; Sept. 26.
Shampay, Pascal J., Chicago, Ill. Drying machine. No. 1,429,976; Sept. 26.
Shaw, Patrick J., Dixon, Calif. Harvester cutting mechanism. No. 1,430,408; Sept. 26.
Sheller, John C., assignor to E. Segal and L. Boruszak, Janesville, Wis. Permutation lock. No. 1,430,195; Sept. 26.
Sheras, Morris, assignor to M. Gesas, trustee, Chicago, Ill. Time stamp. No. 1,430,031; Sept. 26.
Shipp, Clarence C., Indianapolis, Ind. Making connections for ventilating box bases. No. 1,430,120; Sept. 26.
Shold, Siegfried, Mansfield, Ohio. Safety device. No. 1,430,410; Sept. 26.
Sickles, Frank W. (See Perkins, J. L., Sickles, and Oakley.)
Sidler, August, Zurich, Switzerland. Producing electrical insulating objects. No. 1,430,266; Sept. 26.
Siegel, Joseph, assignor to Froiaset Corset Company, Detroit, Mich. Belt corset. No. 1,430,121; Sept. 26.
Simmons, Ralph C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heal-building machine. No. 1,430,032; Sept. 26.
Sinion, John, Gardena, Calif. Pull belt for stalled automobiles. No. 1,430,471; Sept. 26.
Singer Manufacturing Company, The. (See Barron, William L., assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Herr, Park A., assignor.)
Skartchsearis, James P., Jamestown, N. Y. Railway switch and signal mechanism. No. 1,430,411; Sept. 26.
Skartchsearis, James P., Jamestown, N. Y. Track-switch-tripping mechanism. No. 1,430,412; Sept. 26.
Skelton, William S., Evansville, Ind. Union garment. No. 1,430,409; Sept. 26.
Sloan, Elmer L., Joplin, Mo. Steering-gear antirattler. No. 1,430,122; Sept. 26.
Smerschnik, John F., Wilkes-Barre, Pa. Carbon remover. No. 1,430,033; Sept. 26.
Smith, Harvey N., Allentown, and G. A. Wartman, Bethlehem, Pa. Heater. No. 1,430,413; Sept. 26.
Smith, Homer P., assignor to Margaret Smith, Appleton, Wis. Hairpin-crimping machinery. No. 1,430,331; Sept. 26.
Smith, Hurley H., Elkhart, Ind. Combination lock. No. 1,430,332; Sept. 26.
Smith, Jacob K. (See Lego, James C., assignor.)
Smith, Margaret. (See Smith, Homer P., assignor.)
Smith, Robert E. L., Holland, Mo. Tool. No. 1,429,977; Sept. 26.
Smith, Robert R., Brooklyn, N. Y. Corner fastening for bedsteads. No. 1,430,123; Sept. 26.
Smith, William B., Chicago, Ill. Means for holding fittings in bags. No. 1,430,333; Sept. 26.
Smith, William H., Newark, N. J. Bag. No. 1,430,267; Sept. 26.
Smith, William I. (See Christenson, Ernst, assignor.)
Smyth, Samuel E., Denver, Colo. Cleaning compound. No. 1,429,978; Sept. 26.
Snedeker, Charles W., Kingston, N. Y. Lock. No. 1,430,196; Sept. 26.
Snelling, Walter O., Allentown, Pa. Vulcanized oil product. No. 1,430,034; Sept. 26.
Snelling, Walter O., Allentown, Pa. Manufacture of acids. No. 1,430,035; Sept. 26.
Snelling, Walter O., Allentown, Pa. Plastic product. No. 1,430,036; Sept. 26.
Somerville, George B. (See Rogers, Robert D., assignor.)
Sonday, Francis M., Churubusco, Ind. Drainage device. No. 1,430,197; Sept. 26.
Sosa, Enrique B., Montevideo, Uruguay. Spring wheel. No. 1,430,414; Sept. 26.
Spalding, A. G., & Bros. (See Bolton, John R., assignor.)
Spanenberg, Otto C., Albion, Mich. Pivotal spring seat. No. 1,429,979; Sept. 26.
Spangler, Charles M., Emporium, Pa. Universal joint for coupling shafts. No. 1,429,980; Sept. 26.

Spear, Arthur, Chicago, Ill. Nut-castellating mechanism. No. 1,430,334; Sept. 26.
Spooner, Allen N., et al. (See Nordstrom, John P., assignor.)
Staggs, Fred and M. Reynolds, Shamrock, Tex. Lock for automobiles. No. 1,430,472; Sept. 26.
Standard Parts Company, The. (See Bryant, Richard S., assignor.)
Stanley, Albert E., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Machine for treating fruit. No. 1,430,124; Sept. 26.
Stehler, Fred, Riverside, Calif. Apparatus for removing objects from a liquid body. No. 1,430,198; Sept. 26.
Stengel, Herman, assignor to A. J. Otten, Los Angeles, Calif. Music holder. No. 1,430,335; Sept. 26.
Stephen, Archibald R., Lodi, Calif. Belt control for picking tables. No. 1,430,037; Sept. 26.
Stokes, Charles L., Los Angeles, Calif. Liquid-feed system and method. No. 1,430,038; Sept. 26.
Stolley, William A., assignor to Jas. Heddon's Sons, Dowagiac, Mich. Fish bait or lure. No. 1,430,336; Sept. 26.
Stoll, Forest R., Carey, Ohio. Electromagnetic well-drilling machine. No. 1,430,473; Sept. 26.
Stoltz, John L., Sumner, Ill. Resilient wheel. No. 1,430,474; Sept. 26.
Stoop, William J., Wheeling, W. Va. Pickling apparatus. No. 1,430,039; Sept. 26.
Strong, Henry M. (See Arnold, Ernest H., assignor.)
Sturgis Steel Go-Cart Company. (See Lindberg, Charles A., assignor.)
Sullivan, Linn B., Decatur, Ga. Cooking stove. No. 1,430,125; Sept. 26.
Sundstrand, Gustaf D., assignor to Rockford Milling Machine Company, Rockford, Ill. Milling machine. No. 1,430,268; Sept. 26.
Swanson, Olof, Denver, Colo. Lubricator. No. 1,430,199; Sept. 26.
Swiss Ferment Company Limited. (See Jenny, G., and Jaeck, assignors.)
Syme, David M., assignor to Hydro-Carbon Burner Manufacturing Company, Newport, R. I. Hydrocarbon burner. No. 1,430,415; Sept. 26.
Tagliabue, Charles J., Manufacturing Co. (See Roesch, Alfred, assignor.)
Talcott, Morris G., Talcottville, Conn. Oil burner. No. 1,430,337; Sept. 26.
Tarvin, William L., Rome, Ga. Spark arrester. No. 1,430,475; Sept. 26.
Taylor, Alfred and H. D., and P. W. Gray, York, England. Indirect-vision range finder and the like instrument. No. 1,429,981; Sept. 26.
Taylor, Harold D. (See Taylor, Alfred and H. D., and Gray.)
Taylor, John L. (See Owens, W. H., and Taylor.)
T-Beam Engineering Company. (See Wells, Hewitt L., assignor.)
Tenbrook, George H. (See Brann, H. H., and Tenbrook.)
Thomas, James F., Montreal, Quebec, Canada. Pumping mechanism. No. 1,430,416; Sept. 26.
Tiemann, Fritz, Berlin-Wilmersdorf, Germany. Purifying sugar juices by filtration and decantation. No. 1,430,200; Sept. 26.
Timken Roller Bearing Company, The. (See Hauser, A., and Lothrop, assignors.)
Topping, John A., Chicago, Ill. Means for securing shingles to roofs. No. 1,430,338; Sept. 26.
Traphagen, Harry R. (See Waterman, L. E., Traphagen, and Waterman.)
Trekell, Harry E., Wellington, Kans. Mail-box bracket and signal. No. 1,430,476; Sept. 26.
Troy Laundry Machinery Company. (See Bartholomew, William, assignor.)
Trust, Henry, deceased, Park Ridge, N. J., and F. M. Ashley, Brooklyn, N. Y.; said Ashley assignor of his one-half interest to J. Trust; J. Trust, administratrix. Mixing and beating machine. No. 1,430,040; Sept. 26.
Trust, Josephine, administratrix. (See Trust, H., and Ashley.)
Trust, Josephine. (See Trust, H., and Ashley, assignors.)
Tubbs, Earl D., New York, N. Y., assignor to Igoe Brothers, Newark, N. J. Shaft coupling. No. 1,429,982; Sept. 26.
Tucker, Hilry M., Fort Worth, Tex. Boring machine. No. 1,430,339; Sept. 26.
Tucker, Lewis D., Gloucester, Mass. Toilet bowl. No. 1,430,417; Sept. 26.
Tullis, John K., New York, N. Y., assignor to Fulcra Tan Company, Irvington, N. J. Tanning preparation. No. 1,430,477; Sept. 26.
Tulloch, David M., et al. (See Nordstrom, John P., assignor.)
Tunstall, William B., Worcester, Mass. Automatic mechanism for player pianos. No. 1,430,340; Sept. 26.
Turner, Douglas, St. Louis, Mo., assignor, by mesne assignments, to The Measuregraph Company. Register for fabric-measuring machines. No. 1,429,983; Sept. 26.
Underwood Typewriter Company. (See Campbell, George W., assignor.)
United Engine Company. (See Rutherford, Nealon D., assignor.)
United Filters Corporation. (See Campbell, Robert C., assignor.)
United Shoe Machinery Corporation. (See Normandy, Charles O., assignor.)
United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
Urlin, George C. (See Anderson, Frank P., assignor.)
U. S. Industrial Alcohol Co. (See Rodebush, Worth H., assignor.)
U. S. Light & Heat Corporation. (See Donop, August W., assignor.)
Valerius, Theodore L., Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Can sterilizing and drying apparatus. No. 1,430,201; Sept. 26.
Valerius, Theodore L., and O. Larsen, Fort Atkinson, Wis., assignors to The Creamery Package Mfg. Company, Chicago, Ill. Lock for churn covers. No. 1,430,202; Sept. 26.
Vanderwal, Pieter, Brondesbury, London, England. Ships davit. No. 1,430,516; Sept. 26.
Van Dyke, Clayton, Grand Rapids, Mich. Direction-signaling device for vehicles. No. 1,430,126; Sept. 26.
Van Sweringen, George N. (See Busse, E. G., and Van Sweringen.)
Vedder, John W., Worcester, Mass. Stone press roll. No. 1,430,418; Sept. 26.
Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Fluid-pressure controller. No. 1,430,127; Sept. 26.
Velvet Action Brake Lining Company. (See Barefoot, J. C., and Knee, assignors.)
Venn, Theodore H., assignor to Venn-Severin Machine Co., Chicago, Ill. Internal-combustion engine. No. 1,430,041; Sept. 26.
Venn-Severin Machine Co. (See Venn, Theodore H., assignor.)
Verduzio, Rodolfo, Rome, Italy. Construction of aeroplanes. No. 1,430,128; Sept. 26.
Vodicka, John, assignor to Cinch Fastener Corporation, Chicago, Ill. Grommet. No. 1,430,129; Sept. 26.
Vollmer, Gustav C., St. Louis, Mo. Knife sharpener. No. 1,429,984; Sept. 26.
Von Raczynski, Widimir, Bismarckshohe, near Lubasch, Germany. Hauling cable. No. 1,430,042; Sept. 26.
Von Tautphoeus, Egon F., Munich, Germany. Amusement railway. No. 1,430,203; Sept. 26.
Voorhees, Vanderveer. (See Rindfusz, R. E., and Voorhees.)
Waddy, George M., Buffalo, N. Y. Grain door. No. 1,429,985; Sept. 26.
Wagemaker, Isaac, Grand Rapids, Mich. Filing appliance. No. 1,430,043; Sept. 26.
Walker, Joseph L., assignor to K-D Barrel and Hamper Co., Baton Rouge, La. Barrel or drum construction. No. 1,430,419; Sept. 26.
Walker, Joseph L., assignor to K-D Barrel and Hamper Co., Baton Rouge, La. Veneer drum or the like. No. 1,430,420; Sept. 26.
Wallace, Thomas, New York, N. Y. Photographic camera. No. 1,430,478; Sept. 26.
Wallace, William A., Johnston City, Ill. Oil burner. No. 1,430,044; Sept. 26.
Walsh, Clara B., St. Louis, Mo. Carpet protector. No. 1,430,341; Sept. 26.
Walsh, William C., Chicago, Ill. Machine for cutting brick ice cream. No. 1,430,342; Sept. 26.
Walter, Allen J., Mansfield, Ohio. Steriliser. No. 1,430,421; Sept. 26.
Wannemacker, August S., Cloverdale, Ohio. Husking peg. No. 1,430,343; Sept. 26.
Warder, Walter J., jr., deceased, Chicago, Ill.; R. W. Limbach, administrator. Armature winding. No. 1,430,130; Sept. 26.
Waring, James H., Milwaukee, assignor of one-half to P. F. Schryer, Wauwatosa, Wis. Pencil. No. 1,430,204; Sept. 26.
Waring, William G., Webb City, Mo., assignor of one-half to G. Battelle, Columbus, Ohio. Extraction of zinc. No. 1,430,269; Sept. 26.
Waring, William G., Webb City, Mo., assignor of one-half to G. Battelle, Columbus, Ohio. Extraction of lead and zinc. No. 1,430,270; Sept. 26.
Waring, William G., Webb City, Mo., assignor of one-half to G. Battelle, Columbus, Ohio. Treatment of zinc-lead fume. No. 1,430,271; Sept. 26.
Wartman, Granville A. (See Smith, H. N., and Wartman.)
Warwick, Charles, assignor to W. R. Richardson, Vancouver, British Columbia, Canada. Domestic oil burner. No. 1,430,131; Sept. 26.
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Waterman, Howard L. (See Waterman, L. E., Traphagen, and Waterman.)
Waterman, Lewis E., H. R. Traphagen, and H. L. Waterman, assignors to Emerson-Brantingham Company, Rockford, Ill. Transmission mechanism. No. 1,429,986; Sept. 26.
Watson, William A., Malden, and W. Eustis, Newton, assignors to J. P. Eustis Manufacturing Company, Cambridge, Mass. Player mechanism for musical instruments. No. 1,430,517; Sept. 26.
Watts, John T., Los Angeles, Calif. Pair of suspenders. No. 1,430,422; Sept. 26.
Wayland, Frank, Salem, Mass. Tanning process. No. 1,430,479; Sept. 26.

Webber, Rollin F., assignor to Adjuria, Incorporated, Washington, D. C. Kit-holding bracket. No. 1,430,525; Sept. 26.
Weber & Co. Gesellschaft für Bergbau, Industrie und Bahnbau. (See Weber, Wilhelm, assignor.)
Weber, Wilhelm, assignor to Firm Weber & Co. Gesellschaft für Bergbau, Industrie und Bahnbau, Wiesbaden, Germany. Plant for separating coke from waste fuel and residues. No. 1,429,987; Sept. 26.
Welchold, Charles F., Worthington, Ohio. Footing for cellar walls. No. 1,430,423; Sept. 26.
Wells, Hewitt L., assignor to T-Beam Engineering Company, Washington, D. C. Concrete floor construction. No. 1,430,424; Sept. 26.
Werner, Edward M., assignor to The Hoynesite Explosives Company, Cleveland, Ohio. Explosive composition and the manufacture thereof. No. 1,430,272; Sept. 26.
Weyh, Charles H. and W. F., St. Paul, Minn. Beet-topping machine. No. 1,429,988; Sept. 26.
Weyh, William F. (See Weyh, Charles H. and W. F.)
Whaley, William B. S., New York, N. Y., assignor to American Whaley Engine Company, Boston, Mass. Internal-combustion engine. No. 1,430,480; Sept. 26.
Wheelwright, Henry M., Newton Center, Mass. Beater sizing. No. 1,430,045; Sept. 26.
Whitaker-Glessner Company. (See Bell, William M., assignor.)
Whitcher, R. P., et al. (See McLaughlin, Milton P., assignor.)
White, William H. (See Johnson, Herbert, assignor.)
Whitehead, Thomas C., Detroit, Mich. Attachment for tractors. No. 1,429,989; Sept. 26.
Whitlock, E. D., et al. (See Whitlock, Ralph G., assignor.)
Whitlock, M. H., et al. (See Whitlock, Ralph G., assignor.)
Whitlock, Ralph G., assignor to E. D. Whitlock and M. H. Whitlock, Los Angeles, Calif. Loose-leaf book. No. 1,430,046; Sept. 26.
Whitlock, Ralph G., assignor to E. D. Whitlock and M. H. Whitlock, Los Angeles, Calif. Loose-leaf book. No. 1,430,047; Sept. 26.
Widme, Joseph, Twin Valley, Minn. Water drain for gasoline tanks. No. 1,430,425; Sept. 26.
Wiepcke, Marques, Brooklyn, N. Y. Ceiling. No. 1,430,481; Sept. 26.
Wilberts, Martin E., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Can-feeding apparatus. No. 1,430,132; Sept. 26.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Bifurcating blanks. No. 1,429,990; Sept. 26.
Wilkes, Frederick C., Douglas, and F. K. Flynn, Watertown, Wis., assignors, by mesne assignments, to Luce Cane Harvester Corporation, New York, N. Y. Conveyer-chain guide for cane harvesters and the like. No. 1,429,991; Sept. 26.
Williams, George A., Decatur, Ill. Bottle cap. No. 1,430,133; Sept. 26.
Williams, Ralph E., Los Angeles, Calif. Spotlight. No. 1,430,134; Sept. 26.
Williams, Ralph E., Los Angeles, Calif. Regulating bracket for movable lights. No. 1,430,135; Sept. 26.
Williams, Rolland G., Bridgeport, Conn. Pole mounting. No. 1,430,136; Sept. 26.
Willmann, Ernest F., Palatine, and W. Kuersten, Chicago, Ill. Egg crate. No. 1,430,205; Sept. 26.
Wills, Childe H., Marysville, Mich. Means for silencing crank shafts. No. 1,430,344; Sept. 26.
Wilputte, Alice A., et al. (See McIntire, Charles V., assignor.)
Wilputte, Alice A., et al. (See Pavitt, William H., jr., assignor.)
Wilputte, Louis, et al. (See McIntire, Charles V., assignor.)
Wilputte, Louis, et al. (See Pavitt, William H., jr., assignor.)
Wilson, Weaver, and S. Price, Wellington, Kans. Locking attachment for spare-tire holders. No. 1,430,137; Sept. 26.
Wilterding, Forest E., and N. N. Buck, Eau Claire, Wis., assignors to said Buck. Electric door-operating mechanism. No. 1,430,206; Sept. 26.
Windish, Fred, assignor of one-half to M. Rudzik, Hartford, Conn. Valve-dressing tool. No. 1,430,345; Sept. 26.
Winters, David L., Edgewater, Md. Carburetor. No. 1,430,482; Sept. 26.
Woegerer, Carl V., assignor of one-half to J. R. Clarke and one-half to W. H. Clarke, New York, N. Y. Process of and apparatus for producing lighter hydrocarbons from heavier hydrocarbons. No. 1,429,992; Sept. 26.
Wolvekamp, Marl E., Oakland, Calif. Interference tubes for phonographs and telephones. No. 1,429,993; Sept. 26.
Wolverton, Don S., Doland, S. Dak. Harrow. No. 1,430,483; Sept. 26.
Woodhouse, Henry, New York, N. Y. Map holder. No. 1,430,207; Sept. 26.
Wood, Lyndon D., Bala, Pa. Coating composition and process. No. 1,430,484; Sept. 26.
Woodman, William E. (See Crompton, R., Woodman, and Adams.)
Woodring, Alberto I., assignor, by mesne assignments, to National Safety Devices Company, Waterloo, Iowa. Signaling apparatus. No. 1,430,273; Sept. 26.
Worthington, John T. (See Eddy, H. C., and Worthington.)
Wread, William E., assignor to A. Y. Belverge, Los Angeles, Calif. Sash balance. No. 1,430,138; Sept. 26.
Wright, William S., Newark, Ohio. Casing for transmission gearings. No. 1,430,346; Sept. 26.
Young, Clifford H., St. Louis, Mo. Driving mechanism for vehicles. No. 1,430,139; Sept. 26.
Zamolynski, Paul, West Fort William, Ontario, Canada. Direction signal for motor vehicles. No. 1,429,994; Sept. 26.
Zeiss, Carl. (See Nichteriein, Paul, assignor.)
Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Hob and making it. No. 1,430,485; Sept. 26.
Zongaro, Marco G., Portland, Oreg. Work support for grinding machines. No. 1,430,426; Sept. 26.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Ansorge, Percy L., Brooklyn, N. Y. Lighting fixture. No. 61,515; Sept. 26.
Crowell, Frank S., Toledo, Ohio. Arm for lighting fixtures. No. 61,516; Sept. 26.
Evers, Walter V. A., Jersey City, N. J., assignor to Rousmaniere, Williams & Co., Boston, Mass. Textile fabric. No. 61,517; Sept. 26.
Festa, John, Brooklyn, N. Y. Heating stove. No. 61,518; Sept. 26.
Fishbaugh, Frank. (See Krieg, J. C., and Fishbaugh.)
Krieg, John C., and F. Fishbaugh, Newark, Ohio. Rubber heel. No. 61,519; Sept. 26.
Michalski, Joseph J. (See Michalski, Leon S., assignor.)
Michalski, Leon S., assignor of one-half to J. J. Michalski, Buffalo, N. Y. Candy. No. 61,520; Sept. 26.
Miller, Edward & Company. (See Wolter, Herman H., assignor.)
Plaszek, Ferdinand, Saginaw, Mich. Lens. Nos. 61,521–3; Sept. 26.
Rousmaniere, Williams & Co. (See Evers, Walter V. A., assignor.)
Willson, Christa E., Zionsville, Ind. Pincushion. No. 61,525; Sept. 26.
Wolter, Herman H., assignor to Edward Miller & Company, Meriden, Conn. Lamp. Nos. 61,526–7; Sept. 26.
York, Margaret A., New York, N. Y. Child's costumer. No. 61,524; Sept. 26.
Zwick, Frank, Quincy, Ill. Illuminated sign. No. 61,528; Sept. 26.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. O. J. Tool Company, Coldwater, Mich. Shock pneumatic tools and hand tools. No. 159,245; Sept. 26.
Absorene Manufacturing Company, The, St. Louis, Mo. Wall-paper cleaner. No. 159,246; Sept. 26.
Ackswell Mfg. & Sales Co. Inc., Northport, N. Y. Oil valves. No. 159,247; Sept. 26.
Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 159,248; Sept. 26.
Advertiser's Art Studios, Inc., The, Washington, D. C. Advertising letter folders. No. 159,249; Sept. 26.
American Abrasive Metals Company, New York, N. Y. Stair treads and floor plates. No. 159,250; Sept. 26.
American Finance & Commerce Company, San Francisco, Calif. Wheat flour. No. 159,251; Sept. 26.
American Hominy Company, Indianapolis, Ind. Wheat flour. No. 159,252; Sept. 26.
American Lumberman, The, Chicago, Ill. Weekly periodical publications. No. 159,253; Sept. 26.
American Steel & Wire Company. (See American Steel & Wire Company of New Jersey.)
American Steel & Wire Company of New Jersey, trading as American Steel & Wire Company, Cleveland, Ohio. Certain steel products. No. 159,254; Sept. 26.
American Writing Paper Company, Holyoke, Mass. Writing and printing papers. Nos. 159,255–6; Sept. 26.
Andrews & Goodrich, Inc., Boston, Mass. Air-current drying apparatus for manufacturing and industrial operations. No. 159,257; Sept. 26.
Antonsen, Kai, Chicago, Ill. Maltless soft drinks and sirups for making same. No. 159,258; Sept. 26.
Armstrong, W. A., Paper Co. (See Armstrong, William A.)
Armstrong, William A., doing business as W. A. Armstrong Paper Co., New York, N. Y. Bleached and unbleached sulphite paper. No. 159,259; Sept. 26.
Asbestomine Company, Wenatchee, Wash. Dry-powder and cold-water paints, and powder without pigment for making paint. No. 159,260; Sept. 26.
Ashcraft-Wilkinson Company, Atlanta, Ga. Cottonseed meal. No. 159,261; Sept. 26.
Associated Oil Company, San Francisco, Calif. Gasoline. No. 159,603; Sept. 26.
Associated Radiograph Laboratories, San Francisco, Calif. Fiber-board frame used in displaying X-ray photographs of teeth. No. 159,262; Sept. 26.
Associated Rice Millers of America, Inc., New Orleans, La. Rice. No. 159,263; Sept. 26.
Atlas Foundry Company, The, Cleveland, Ohio. Welding bars and rods. No. 159,264; Sept. 26.
Atwood Machine Company, The, Stonington, Conn. Reel mills. No. 159,265; Sept. 26.
Atwood Machine Company, The, Stonington, Conn. Winding frames. No. 159,266; Sept. 26.
Aviston Flour Company, Inc., Jackson, Miss. Stock and poultry feed. No. 159,267; Sept. 26.
Ayotte Manufacturing Co., Chicago, Ill. Lubricating oils. No. 159,604; Sept. 26.
B/G Sandwich Shops, Kansas City, Mo. Sandwiches and pastry. No. 159,268; Sept. 26.
Baker, H. A., Inc., Sumner, Wash. Canned fruits, berries, and vegetables. No. 159,270; Sept. 26.
Baker, S. D., Manufacturing Company. (See Baker, Stephen D.)
Baker, Stephen D., doing business as S. D. Baker Manufacturing Company, New York, N. Y. Certain fixtures of porcelain for bathrooms. No. 159,271; Sept. 26.
Baker, William T., Inc., Jersey City, N. J. Mixed paints, varnishes, and coatings. No. 159,605; Sept. 26.
Bake-Rite Oven Mfg. Co., Reno, Nev., and San Francisco, Calif. Certain food products. No. 159,269; Sept. 26.
Bamacco Company, Inc., Boston, Mass. Soaps. No. 159,272; Sept. 26.
Barbour, J. E., Co., Clifton, N. J. Flax and cotton twine. Nos. 159,606–7; Sept. 26.
Bausch & Lomb Optical Co., Rochester, N. Y. Ophthalmic lenses. No. 159,273; Sept. 26.
Becker Provision Co., Little Rock, Ark. Hams, bacons, butter, eggs, and sausage. No. 159,274; Sept. 26.
Bent, G. H., Company, Milton, Mass. Cookies, crackers, cakes, and biscuit. No. 159,275; Sept. 26.
Berge-Rathbun Co., Boston, Mass. Liquid indicating gauges. No. 159,276; Sept. 26.
Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Wheat flour. No. 159,277; Sept. 26.
Best, Grant, Detroit, Mich. Vitamine compound. No. 159,278; Sept. 26.
Bigelow, Bowditch & Company, Boston, Mass. Daily bulletin or news sheet of the prices of metals. No. 159,280; Sept. 26.
Blair, J. C., Company, Huntingdon, Pa. Paper for writing and printing purposes, envelopes for correspondence, writing tablets, etc. No. 159,281; Sept. 26.
Blanke-Baer Extract & Preserving Company, St. Louis, Mo. Jellies, fruit preserves, apple butter, and flavoring extracts. No. 159,282; Sept. 26.
Blatz, Val., Jr., Candy Co., Milwaukee, Wis. Candy. No. 159,283; Sept. 26.
Bleyer, Alfred, & Co., New York, N. Y. Paper plates. No. 159,608; Sept. 26.
Bok-A-Bel Medicine Co., The. (See Taylor, Charles G.)
Boston & Lockport Block Company, Boston, Mass. Pulleys or blocks. Nos. 159,285–6; Sept. 26.
Boston Food Products Co., East Boston, Mass. Meats, hash, soup, bouilli, bread, vegetables. No. 159,284; Sept. 26.
Boulin, Camille H., doing business as Canson & Montgolfier, New York, N. Y. Handmade paper. No. 159,304; Sept. 26.
Bourne, Clifford N., Syracuse, N. Y. Printed books. No. 159,287; Sept. 26.
Bowser, S. F., & Company, Inc., Fort Wayne, Ind. Dispensers and measuring pumps and meters for liquid fuels and lubricants. No. 159,288; Sept. 26.
Bridgeport Brass Company, Bridgeport, Conn. Brass pipe. No. 159,289; Sept. 26.
Broderick & Bascom Rope Company, St. Louis, Mo. Vehicle towlines. No. 159,609; Sept. 26.
Brooks Company, The, Fort Scott, Kans. Poultry feed. No. 159,290; Sept. 26.
Brown & Bigelow, St. Paul, Minn. Blotters, pencils, and memorandum pads. No. 159,292; Sept. 26.
Brown Company, Portland, Me. Paper products. No. 159,291; Sept. 26.
Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Poultry feed. No. 159,293; Sept. 26.
Buffalo Optical Company, Inc., Buffalo, N. Y. Glass paperweights shaped to form optical lenses. No. 159,294; Sept. 26.
Bulubassis, George J., New York, N. Y. Olive oil. No. 159,295; Sept. 26.
Bunte Brothers, Chicago, Ill. Candy. No. 159,296; Sept. 26.
Burrows, Eastman A., Chicago, Ill. Refrigerating apparatus. No. 159,297; Sept. 26.
Burt Machine Company, Incorporated, Baltimore, Md. Adhesive used in applying labels. No. 159,610; Sept. 26.
Byron Weston Company, Dalton, Mass. Writing paper. No. 159,298; Sept. 26.
California Almond Growers Exchange, San Francisco, Calif. Almonds and almond meats, paste, blanched almonds, etc. Nos. 159,300–1; Sept. 26.
Camden Anchor-Rockland Machine Co., Camden, Me. Marine and stationary internal-combustion motors and carburetors. No. 159,302; Sept. 26.
Campbell Baking Company, Kansas City, Mo. Cake. No. 159,303; Sept. 26.
Canson & Montgolfier. (See Boulin, Camille H.)
Capsheaf Bread Co., St. Louis, Mo. Wheat bread. No. 159,305; Sept. 26.
Carlsbad Vegetable Growers Association, Carlsbad, Calif. Fresh vegetables. No. 159,306; Sept. 26.
Carter Motor Accessories, Inc., Buffalo, N. Y. Oil gauges. No. 159,307; Sept. 26.
Cedal Sawdust Cleanser Company, Wilmington, Calif. Soap paste. No. 159,308; Sept. 26.
Central Paper Company, Menasha, Wis. Gummed paper. No. 159,309; Sept. 26.
Cerf, Baruch, Milwaukee, Wis., and Chicago, Ill. Certain food products. No. 159,324; Sept. 26.
Cheramy, Inc., New York, N. Y. Perfumes, toilet waters, face and toilet powders, sachets, etc. No. 159,310; Sept. 26.
Cincinnati Frog and Switch Co., The, Cincinnati, Ohio. Switches and switch stands. No. 159,311; Sept. 26.
Cincinnati Frog & Switch Co., Cincinnati, Ohio. Railway frogs, crossings, rail braces, and guard rails. No. 159,312; Sept. 26.
City Mills Company, Columbus, Ga. Corn meal. No. 159,313; Sept. 26.
Clearwater, H. P., Hallowell, Me. Pharmaceutical preparations. No. 159,314; Sept. 26.
Collins Company, The, Collinsville, Conn. Cutlery and tools. No. 159,315; Sept. 26.
Colonial Export & Import Company, New York, N. Y. Wheat flour. No. 159,316; Sept. 26.
Columbia Tire and Rubber Company, The, Mansfield, Ohio. Inner tubes for pneumatic, cord, and fabric tires. No. 159,611; Sept. 26.
Columbian Enameling & Stamping Co., Terre Haute, Ind. Cooking and household articles of enameled steel. No. 159,317; Sept. 26.
Cord Tire Corporation, Chester, W. Va. Rubber automobile tires, including the casing and inner tube. No. 159,612; Sept. 26.
Corning Glass Works, Corning, N. Y. Glass. No. 159,318; Sept. 26.
Cortland Line Co. Inc., Cortland, N. Y. Braided enameled Japan-silk fishing lines. No. 159,613; Sept. 26.

Cremint Co., New York, N. Y. Mint candy and mint tablets. No. 159,319; Sept. 26.
Crescent Belt Fastener Company, New York, N. Y. Belt dressing. No. 159,614; Sept. 26.
Crescent Company, The, Tarr, Pa. Unsweetened evaporated milk. No. 159,320; Sept. 26.
Crescent Oil Company, Indianapolis, Ind. Lubricating oils. No. 159,323; Sept. 26.
Crofts & Reed Co., Chicago, Ill. Toilet soaps. No. 159,321; Sept. 26.
Crooks, Harold, doing business as Verso-Tone Medicine Co., Terre Haute, Ind. Certain medicinal and pharmaceutical preparations. No. 159,322; Sept. 26.
Dearborn Publishing Company, Dearborn, Mich. Weekly publication. No. 159,325; Sept. 26.
Defiance Manufacturing Company, New York, N. Y. Calendars. No. 159,326; Sept. 26.
Demartini, L., Supply Co., San Francisco, Calif. Confectioners' coco-nut butter. No. 159,327; Sept. 26.
De Smet, George W., Chicago, Ill. Carbon black. No. 159,328; Sept. 26.
Desmond, Lawrence K., doing business as L. K. Desmond, Corry, Pa. Support for fountain pens. No. 159,329; Sept. 26.
Detroit Packing Co., Detroit, Mich. Pork sausage. No. 159,615; Sept. 26.
Diack Bros., Troy, N. Y. Hair, clothes, and shoe brushes. No. 159,330; Sept. 26.
Di Bianco, Emilio, New York, N. Y. Olive oil. No. 159,331; Sept. 26.
Diehl & Lord. (See Diehl, Edward.)
Diehl, Edward, doing business as Diehl & Lord, Nashville, Tenn. Beverage sold as a soft drink and sirup therefor. No. 159,616; Sept. 26.
Dillmore, Richard C., Philadelphia, Pa. Beverages sold as soft drinks and sirups for making same. No. 159,617; Sept. 26.
Dixon & Hillen, Oakland, Calif. Monthly periodical. No. 159,332; Sept. 26.
Dodge Sales & Engineering Co., Mishawaka, Ind. Stamped steel pulleys. No. 159,333; Sept. 26.
Doehler Die-Casting Company, Brooklyn, N. Y. Nonferrous metal castings. Nos. 159,334–5; Sept. 26.
Drei Masken Verlag A.-G., Munich, Germany. Printed products—namely, journals, music, insignia, and letters. No. 159,336; Sept. 26.
Dreyer & Butz, Newark, N. J. Apparatus for copying drawings and the like. No. 159,337; Sept. 26.
Dulle-Meyer Milling Company, Chamois, Mo. Self-rising flour. No. 159,338; Sept. 26.
Duan, John, Son & Co., New York, N. Y. Gas and oil water-heaters and lanterns, etc. No. 159,339; Sept. 26.
Duplan Silk Corporation, New York, N. Y. Broad silk piece goods. Nos. 159,340–1; Sept. 26.
Eagle Lock Co., Terryville, Conn. Locks, night latches, and padlocks. No. 159,342; Sept. 26.
Eastern Aluminum Company, Boston, Mass. Certain cooking and household utensils of aluminum. No. 159,343; Sept. 26.
Eckenroth Valve and Manufacturing Co., Philadelphia, Pa. Metallic valves. No. 159,344; Sept. 26.
Edison Tire & Rubber Co., Inc., Chicago, Ill. Automobile rubber tires. No. 159,618; Sept. 26.
Eggens-Hambler Company, Elizabeth, N. J., and New York, N. Y. Fountain pens, stylographic pens, and pencils. No. 159,345; Sept. 26.
Eggers, Edward L., doing business as the Merforol Company, St. Louis, Mo. Preparation for cleaning, shining, and polishing shoes and all leather articles. No. 159,346; Sept. 26.
Electro Metallurgical Company, Glen Ferris, W. Va., and Niagara Falls, N. Y. Ferrous and nonferrous metals and alloys. No. 159,347; Sept. 26.
El Reno Mill & Elevator Co., El Reno, Okla. Wheat flour. No. 159,350; Sept. 26.
Ephraim Sanitary Canning Company, Ephraim, Utah. Canned vegetables. No. 159,619; Sept. 26.
Erb, C. F., & Son, Fort Thomas, Ky. Candy. No. 159,349; Sept. 26.
Fallo & Perrelli Canning Co., Gilroy, Calif. Canned vegetables and fruits. No. 159,351; Sept. 26.
Fleischl, Emil, & Son, New York, N. Y. Creamy butter. No. 159,352; Sept. 26.
Fox River Paper Company, Appleton, Wis. Writing paper and ledger. No. 159,353; Sept. 26.
Frontier Bronze Corporation, Niagara Falls, N. Y. Nonferrous metal castings. No. 159,354; Sept. 26.
Fruechteneicht, Henry, Louisville, Ky. Horse, cattle, dairy, poultry, and hog feed. No. 159,355; Sept. 26.
Fujimawa, T., & Company, New York, N. Y. Chemicals and pharmaceuticals. No. 159,356; Sept. 26.
Gates Rubber Company, The, Denver, Colo. Rubber tires. No. 159,620; Sept. 26.
General Baking Company, New York, N. Y. Cake, pastry, biscuits, etc. No. 159,357; Sept. 26.
Geneva Tackle Co., Geneva, N. Y. Fishing spoons. No. 159,358; Sept. 26.
Gillette Safety Razor Company, Boston, Mass. Safety razors. No. 159,359; Sept. 26.
Given Paper Company, St. Paul, Minn. Writing paper and envelopes. No. 159,621; Sept. 26.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paints for foundation and finishing coats. No. 159,360; Sept. 26.
Goodspeed, Charles A., doing business as The Remind-O-Meter Company, Highland Park, Mich. Hand operated counting registers. No. 159,361; Sept. 26.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Butter. No. 159,362; Sept. 26.
Gref & Schmidt. (See Henckels, J. A., assignor.)
Grumbacher, Max, New York, N. Y. Artists' brushes. No. 159,363; Sept. 26.
Guild Products Corporation, Philadelphia, Pa. Blank books, pads, ledgers, binders, stenographers' notebooks, etc. No. 159,364; Sept. 26.
Gum-Ze Manufacturing Co., Los Angeles, Calif. Gasket-sealing composition. No. 159,622; Sept. 26.
Hadley Milling Company, The, Olathe, Kans. Self-rising flour. No. 159,365; Sept. 26.
Haeberlein, Walter J., Camden, N. J. Oleomargarin. No. 159,374; Sept. 26.
Hammond, Standish & Co., Detroit, Mich. Oleomargarin. No. 159,366; Sept. 26.
Hankey Baking Company, McKees Rocks, Pa. Bread. No. 159,367; Sept. 26.
Hardinge Company, New York, N. Y. Iron and steel used for lining plates for ball and pebble mills. No. 159,368; Sept. 26.
Hardware Tire Corporation, Rutherford, N. J. Rubber pneumatic tires. No. 159,623; Sept. 26.
Hassler, Robert H., Inc., Indianapolis, Ind. Shock absorbers for Ford cars. No. 159,624; Sept. 26.
Hay, H. H., Sons, Portland, Me. Fruit sirup used as a food drink or food flavor. No. 159,625; Sept. 26.
Hayes, James A., New York, N. Y. Dolls. No. 159,369; Sept. 26.
Hays-Raden Company, Philadelphia, Pa. Cleanser for cleaning clothes, silverware, dishes, cooking utensils, woodwork, etc. No. 159,370; Sept. 26.
Heim, Henry E., Portland, Oreg. Hot-water equalizers. No. 159,371; Sept. 26.
Henckels, J. A., assignor to Gref & Schmidt, Inc., New York, N. Y. Cutlery. No. 159,372; Sept. 26.
Heppenstall Forge and Knife Company, Pittsburgh, Pa. Steel for use in the manufacture of die blocks, tool-steel forgings, etc. No. 159,373; Sept. 26.
Hercules Wood Heel Fastener Co., The, New York and Brooklyn, N. Y. Wooden-heel fasteners for shoes. No. 159,375; Sept. 26.
Hewlett Bros. Company, Salt Lake City, Utah. Coffee. No. 159,376; Sept. 26.
Hooven & Allison Company, The, Xenia, Ohio. Ropes and cordage—namely, sisal and manila ropes. No. 159,377; Sept. 26.
Houston Publishing Company, The, New York, N. Y. Monthly periodical. No. 159,378; Sept. 26.
Hubbs, Charles F., & Co., New York, N. Y. Paper from which patterns are made. No. 159,379; Sept. 26.
Hubbs, Charles F., & Co., New York, N. Y. Writing and printing papers. No. 159,380; Sept. 26.
Humphreys Godwin Company, Memphis, Tenn. Stock and poultry feed. No. 159,381; Sept. 26.
Independent Lock & Key Manufacturing Co., Inc., Leominster, Mass. Locks and keys. No. 159,382; Sept. 26.
Indiana Condensed Milk Company, Indianapolis, Ind. Milk product consisting of skimmed milk and vegetable fat. No. 159,383; Sept. 26.
Ingersoll, William H., New York, N. Y. Pencils. No. 159,384; Sept. 26.
International Mailing Tube & Wrapper Co., New York and Brooklyn, N. Y. Mailing wrappers. No. 159,385; Sept. 26.
International Permold Company, Cleveland, Ohio. Metal castings. No. 159,386; Sept. 26.
Irish Linen Society, Belfast, Ireland. Textile fabrics. No. 159,387; Sept. 26.
Irvin, Alex H., Company, Curwensville, Pa. Automatic paper-fastening machines. No. 159,388; Sept. 26.
Italian Supply Co., The, Lock Haven, Pa. Olive oil, tomato sauce, and macaroni. No. 159,389; Sept. 26.
Jaburg-Miller Co., Inc., New York, N. Y. Monthly catalogue. No. 159,390; Sept. 26.
Jeane, Betty, Incorporated, Los Altos, Calif. Canned fruits and vegetables, nuts in their natural state, honey, jelly, etc. No. 159,279; Sept. 26.
Jersey Cereal Food Company, The, Cereal, Pa. Flours, corn meal and flakes, rolled oats, bran, etc. No. 159,626; Sept. 26.
Jordan, W. H. & F., Jr., Mfg. Co., Philadelphia, Pa. Scientific knitting-machine lubricant. No. 159,391; Sept. 26.
Kahn, William, doing business as Kahn's Perfumery, St. Louis, Mo. Certain named toilet preparations. No. 159,392; Sept. 26.
Kahn's Perfumery. (See Kahn, William.)
Kanouse & Foote, Oakland, Calif. Bearings, pistons, piston, wrist, and fan-pulley pins, gears, etc. No. 159,393; Sept. 26.
Kansas City Milling Co., The, Kansas City, Mo. Wheat flour. No. 159,394; Sept. 26.
Kelley & Corwin, New York, N. Y. Toy telephones. No. 159,395; Sept. 26.
Kendall Products Corporation, New York, N. Y. Detergent preparations—namely, soap products. No. 159,396; Sept. 26.
Kerlin, Arthur E., Center Hall, Pa. Laying mash, starting and growing foods, hatching eggs, and baby chickens. No. 159,397; Sept. 26.

Keys Piston Ring Company, St. Louis, Mo. Piston rings. No. 159,627; Sept. 26.
Keystone Steel & Wire Company, Peoria, Ill. Wire fencing and barb wire. No. 159,398; Sept. 26.
Kirk, Royden C., doing business as Klever Kraft Company, Waltham, Mass. Hook corners for hanging pictures, etc. No. 159,399; Sept. 26.
Klatscher & Lorenz, Inc., New York, N. Y. Corn grits and flakes, barley, and malt. No. 159,400; Sept. 26.
Klever Kraft Company. (See Kirk, Royden C.)
Knapp, Edwin W., New York, N. Y. All kinds of fresh fruits and vegetables, hay, corn, and wheat. Nos. 159,401–2; Sept. 26.
Knickerbocker Case Company, Chicago, Ill. Cases and bags for holding fishing material. No. 159,403; Sept. 26.
Koenig, Fred A., Chicago, Ill. Blank account books. No. 159,404; Sept. 26.
Koken Companies, St. Louis, Mo. Toilet waters and perfumes. No. 159,405; Sept. 26.
La Boiteaux, C. L., Company, The, Cincinnati, Ohio. Strawboard, box board, binder's board, etc. No. 159,299; Sept. 26.
Ladish Milling Co., Milwaukee, Wis. Rye flour, dairy, horse, scratch, and chick feeds. No. 159,406; Sept. 26.
Lampe, Fred. E., New York, N. Y. Solder in paste form. No. 159,407; Sept. 26.
Langley & Michaels Co., San Francisco, Calif. Soda fountains, carbonators, and soda-fountain machinery. No. 159,408; Sept. 26.
Langley & Michaels Co., San Francisco, Calif. Antiseptic and germicidal solution. No. 159,409; Sept. 26.
Leon, Albert E., Belmont, Mass. Antifriction bearings, shafts, arbors, and bearing parts. No. 159,410; Sept. 26.
Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 159,411; Sept. 26.
Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 159,628; Sept. 26.
Lewyn Drug Co. (See Lewyn, Isadore.)
Lewyn, Isadore, doing business as Lewyn Drug Co., Houston, Tex. Women's tonic and regulator. No. 159,412; Sept. 26.
Liberty Paper Co., New York, N. Y. Sealing tape. No. 159,413; Sept. 26.
Liebmann, S., Sons, Inc., New York and Brooklyn, N. Y. Malt soft drink. No. 159,414; Sept. 26.
Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation for the treatment of rheumatism, etc. No. 159,348; Sept. 26.
Linehan, Austin J., Jersey City, N. J. Roof paint. No 159,629; Sept. 26.
Lion Varnish Company, Glendale, N. Y. Ready-mixed paints and varnishes and floor filler. No. 159,415; Sept. 26.
Listo Pencil Corporation, Alameda, Calif. Pencils. No. 159,416; Sept. 26.
Little Giant Company, Mankato, Minn., Machine for measuring weight or pull. No. 159,417; Sept. 26.
Loft, Incorporated, New York, N. Y. Candies. No. 159,418; Sept. 26.
Lowe, Joe, Co. Inc., New York, N. Y. Whipping powders or fillers used by bakers. No. 159,419; Sept. 26.
Lndlum Steel Company, Watervliet, N. Y. Alloy steel. Nos. 159,420–1; Sept. 26.
Lunkenheimer Company, The, Cincinnati, Ohio. Certain machines and parts of machinery. No. 159,422; Sept. 26.
McCabe, George J., doing business as McCabe Drug Co., Nekoma, N. Dak. Medicines for certain purposes. No. 159,423; Sept. 26.
McClave-Brooks Co., Scranton, Pa. Steam blowers. No. 159,424; Sept. 26.
McLoughlin Bros., Inc., Springfield, Mass. Books in a continuing series. No. 159,425; Sept. 26.
Mackay, John, & Co., Limited, Edinburgh and Glasgow, Scotland, and Newcastle-on-Tyne, England. Extract of kola, coffee, and chicory. No. 159,426; Sept. 26.
Maddock's, Thomas, Sons Company, Trenton, N. J. Certain plumbing supplies and bathroom trimmings and fittings. No. 159,427; Sept. 26.
Magee, Allan A., Montreal, Quebec, Canada. Horses on wheels for children. No. 159,450; Sept. 26.
Magma Metal Corporation, Newark, N. J. Magnesium alloys and castings and forgings produced therefrom. No. 159,428; Sept. 26.
Magnolia Metal Company, New York, N. Y. Babbitt, bearing, and antifriction metals and alloys. No. 159,429; Sept. 26.
Malt-Diastase Company, New York, N. Y. Concentrated liquid malt extracts. No. 159,430; Sept. 26.
Marvellum Company, The, Holyoke, Mass. Cover paper. No. 159,431; Sept. 26.
Matthews, Geo. B., & Sons, New Orleans, La. Cattle and stock foods. No. 159,432; Sept. 26.
Mauser Mill Company, Laurys Station, Pa. Wheat flour. No. 159,433; Sept. 26.
Maxwell, S. A., & Co., Chicago, Ill. Window-shade brackets. No. 159,434; Sept. 26.
Memphis Cotton Hull & Fibre Co., Ltd., The, Memphis, Tenn. Mixed feeds. No. 159,435; Sept. 26.
Merforol Company. (See Eggers, Edward L.)
Metal and Alloy Specialties Company, Inc., Buffalo, N. Y. Nonrusting and corrosion-resisting alloy and castings made therefrom. No. 159,436; Sept. 26.
Meyers, J., Stationery & Printing Co., Inc., New York, N. Y. Legal and letter paper, writing pads, notebooks, pencils, etc. No. 159,437; Sept. 26.
Meyrowitz, E. B., Inc., New York, N. Y. Eyeglasses. No. 159,438; Sept. 26.
Mid West Glass Company, The, Cincinnati, Ohio. Fluid gauges. No. 159,439; Sept. 26.
Midland Cereal Products Co., Denver, Colo. Breakfast cereals. No. 159,630; Sept. 26.
Miller Lock Company, Philadelphia, Pa. Frying pans and broom holders. No. 159,440; Sept. 26.
Miller Tool & Mfg. Co., Detroit, Mich. Service tools used in repairing automobiles. No. 159,441; Sept. 26.
Millers Falls Company, Millers Falls, Mass. Certain tools. No. 159,442; Sept. 26.
Mission Bead Company, Los Angeles, Calif. Certain cleaning compound. No. 159,443; Sept. 26.
Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Varnish stain. No. 159,444; Sept. 26.
Morrell, John, & Company, Ottumwa, Iowa. Marmalade, plum pudding, dairy products, meats, and pork and beans. No. 159,445; Sept. 26.
Morris & Company, Chicago, Ill. Meats, meat products, and other foods. No. 159,446; Sept. 26.
Morse & Burt Co., Inc., Brooklyn, N. Y. Appliances for obtaining casts for fitting shoes. No. 159,447; Sept. 26.
Mulford, H. K., Company, Philadelphia, Pa. Preparation used as a remedy for insomnia and restlessness. No. 159,448; Sept. 26.
Muller and Phipps (Asia) Limited, New York, N. Y. Carriage gongs. No. 159,449; Sept. 26.
Nash Coffee Company, Minneapolis, Minn. Coffee. No. 159,451; Sept. 26.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuits. No. 159,452; Sept. 26.
National Cream Fried Cake Corporation, Columbus, Ohio. Doughnuts. No. 159,631; Sept. 26.
National Cream Fried Cake Corporation, Columbus, Ohio. Fried cakes and doughnuts. No. 159,453; Sept. 26.
National Home Appliance Corporation, Detroit, Mich. Household appliances. No. 159,454; Sept. 26.
National Marking Machine Company, The, Cincinnati, Ohio. Chemical preparation. No. 159,455; Sept. 26.
Nebraska Consolidated Mills Co., Grand Island, Nebr. Wheat flour. No. 159,456; Sept. 26.
Neuhoff, Fred B., Company. (See Neuhoff, Fred B.)
Neuhoff, Fred B., trading as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and vegetables. Nos. 159,457–8; Sept. 26.
New Home Sewing Machine Company, The, Orange, Mass. Sewing machines and attachments. No. 159,459; Sept. 26.
New York Tribune, Inc., New York, N. Y. Title of a newspaper column. No. 159,400; Sept. 26.
Newcomb, James F., & Co., Inc., New York, N. Y. Monthly publication. No. 159,461; Sept. 26.
Nissley Creamery Company, Fort Worth, Tex. Dairy products. No. 159,462; Sept. 26.
Noonan, T., & Sons Company, Boston, Mass. Toilet preparations. No. 159,463; Sept. 26.
Nott-Atwater Co., Spokane, Wash. Lubricating oils. No. 159,464; Sept. 26.
Oest Fruit Co., San Francisco, Calif. Jams, jellies, and orange marmalade. No. 159,632; Sept. 26.
O'Flaherty, James, assignor to O'Flaherty's New York Suburban List, Inc., New York, N. Y. Paper matrices. Nos. 159,633–4; Sept. 26.
O'Flaherty's New York Suburban List, Inc. (See O'Flaherty, James, assignor.)
Oklahoma City Mill and Elev. Co., Oklahoma, Okla. Wheat flour. No. 159,465; Sept. 26.
Olsen, Julius H. T., New York, N. Y. Shoe polish. No. 159,466; Sept. 26.
Orenstein Trunk Company, Newark, N. J. Trunks. No. 159,467; Sept. 26.
Osborn Paper Company, Marion, Ind. Writing tablets, composition books, student notebooks, etc. No. 159,468; Sept. 26.
Pacific Coast Biscuit Company, Seattle, Wash. Salted wafers, soda crackers, etc. No. 159,469; Sept. 26.
Page & Shaw, Inc., Boston and Cambridge, Mass. Candy. No. 159,470; Sept. 26.
Palmer, William J., Los Angeles, Calif. Combined check and account books. No. 159,471; Sept. 26.
Palomba, Frederick W., Waterbury, Conn. Pencils. No. 159,473; Sept. 26.
Paris Service Company, The, Cleveland, Ohio. Automotive parts. No. 159,472; Sept. 26.
Passaic Print Works, Passaic, N. J. Cotton piece goods. No. 159,635; Sept. 26.
Pennsylvania Synthetic Gas & Chemical Company, Philadelphia, Pa. Fuel for internal-combustion engines. No. 159,636; Sept. 26.
Perfection Cooler Co., Stoughton, Mass. Coolers and freezers. No. 159,637; Sept. 26.
Piedmont Mills, Inc., Lynchburg, Va. Wheat flour. No. 159,474; Sept. 26.
Pierson, Irving R., New York, N. Y. Metallic straps for use in strapping and sealing boxes, etc. No. 159,475; Sept. 26.
Pilgrim, Lewis G., Detroit, Mich. Automobile and furniture polish. No. 159,476; Sept. 26.
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. No. 159,638; Sept. 26.
Pittsburgh Reinforced Brazing & Machine Company, Pittsburgh, Pa. Valves and pipe fittings. No. 159,477; Sept. 26.

Flax Company, The, New York, N. Y. Laxative tablets. No. 159,478; Sept. 26.
Plymouth Cordage Company, Plymouth, Mass. Hard fiber cordage, including cables, ropes, and twine. No. 159,480; Sept. 26.
Portland Flouring Mills Co., The, Portland, Oreg. Stock and poultry feeds, breakfast cereals, and flours. No. 159,479; Sept. 26.
Premier Malt Products Co. of Ohio, Inc., Chicago, Ill. Malt sirup for food purposes. Nos. 159,481–3; Sept. 26.
Pyo-Coda Laboratories, New York, N. Y. Preparation for the treatment of pyorrhea. No. 159,484; Sept. 26.
Quateman, David, Chicago, Ill. Certain medicinal, chemical, and pharmaceutical preparations, alum, borax, etc. No. 159,485; Sept. 26.
Ragus Sugar Company Inc., Buffalo, N. Y. Sugar, teas, coffee, rice, cocoa, cornstarch. No. 159,486; Sept. 26.
Rainbow Import & Export Corporation, New York, N. Y. Aluminum kitchen utensils and flatware. No. 159,487; Sept. 26.
Rapp, Arthur R., Company, Chicago, Ill. Wrapping paper, bond paper, and cover paper. No. 159,488; Sept. 26.
Red Star Milling Company, Wichita, Kans. Wheat flour. Nos. 159,489–90; Sept. 26.
Redondo Packing Corporation, Los Angeles, Calif. Beverages sold as soft drinks and sirups used in preparation of same. No. 159,639; Sept. 26.
Reed Roller Bit Co., Houston, Tex. Rotary drill bits, reamers, oil-well fishing tools, etc. No. 159,491; Sept. 26.
Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Metal ware and metal culinary utensils. No. 159,492; Sept. 26.
Remind-O-Meter Company, The. (See Goodspeed, Charles A.)
Remington Arms Company, Inc., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; and New York, N. Y. Pocket-knives and parts thereof. No. 159,493; Sept. 26.
Remmers Soap Company, The, Cincinnati, Ohio. Soap. No. 159,494; Sept. 26.
Rieser Company, The, New York, N. Y. Soaps. No. 159,495; Sept. 26.
Riverside Baking Company, Inc., Harrisburg, Pa. Cakes, bread, and pastry. No. 159,641; Sept. 26.
Riverside Boiler Works, Inc., Cambridge, Mass. Range boilers. No. 159,640; Sept. 26.
Roddenbery Bros., Cairo, Ga. Pure Georgia cane sirup. No. 159,496; Sept. 26.
Rodenberg, M. S., Co., The, Providence, R. I. Mechanically-operated lead pencils. No. 159,497; Sept. 26.
Rogers, Enoch S., trading as E. S. Rogers Mfg. Co., Philadelphia, Pa. Children's three-wheel propelling cars. No. 159,498; Sept. 26.
Rogers, Urbane E., Company, Dallas, Tex. Vegetable-oil soap. No. 159,536; Sept. 26.
Rose & Frank Co., New York, N. Y. Tissue paper mainly used for carbonizing purposes. Nos. 159,499–501; Sept. 26.
Ryder, Herbert, Co., The (not incorporated), Chicago, Ill. Show-window display fixtures and parts thereof. No. 159,502; Sept. 26.
Sabel & Balch, Chicago, Ill. Dust caps for tire valves. No. 159,503; Sept. 26.
San Antonio Drug Co., San Antonio, Tex. Allspice, licorice, milk, sugar, tea, etc. No. 159,504; Sept. 26.
Saperston Manufacturing Co., The, Chicago, Ill. Arch supports. No. 159,505; Sept. 26.
Sawyer Belt Hook Co. (See Sawyer, John D.)
Sawyer, John D., doing business as Sawyer Belt Hook Co., Pawtucket, R. I. Belt hooks. No. 159,506; Sept. 26.
Saxony Mills, St. Louis, Mo. Wheat flour. No. 159,507; Sept. 26.
Schlangen Bros. Co., Chicago, Ill. Hose nozzles. No. 159,508; Sept. 26.
Schreiber, John J., Minneapolis, Minn. Stock and poultry feeds. No. 159,509; Sept. 26.
Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 159,510; Sept. 26.
Seaboard Commercial Company, Seattle, Wash. Canned salmon. No. 159,511; Sept. 26.
Security Key Case Mfg. Co., New York, N. Y. Key cases. No. 159,512; Sept. 26.
Seed Filter & Manufacturing Co. Inc., New York, N. Y. Antisplash water filters. No. 159,513; Sept. 26.
Sept Cinema Camera Distributors, Inc., New York, N. Y. Cinema cameras. No. 159,514; Sept. 26.
Shackman, B., & Co., New York, N. Y. Snapping mottoes. Nos. 159,515–16; Sept. 26.
Sheffield Mfg. Co., Burr Oak, Mich. Coaster wagons. Nos. 159,517–19; Sept. 26.
Sheffield Mfg. Co., Burr Oak, Mich. Hand sleds. No. 159,520; Sept. 26.
Sheffield Mfg. Co., Burr Oak, Mich. Coaster wagons. No. 159,521; Sept. 26.
Shields, Marie, New York, N. Y. Toilet preparations. No. 159,522; Sept. 26.
Silverman, Herman, doing business as U. S. Bottling Co., Butler, Pa. Beverage sold as a soft drink and sirup therefor. No. 159,642; Sept. 26.
Silz, A., Inc., New York, N. Y. Cheeses, broths, soups, etc. No. 159,523; Sept. 26.
Skelton Tool Co., Syracuse, N. Y. Reamers, boring bars, special metal-working tools, machine guards. No. 159,524; Sept. 26.
Skybryte Company, The, Cleveland, Ohio. Preparation for cleaning and removing dirt, grit, etc., from glass and other glazed surfaces. No. 159,525; Sept. 26.
Smith, Carolyn S., doing business as Vitalized Water Process Co., New York, N. Y. Filters. No. 159,526; Sept. 26.
Smith, Conrad T., New York, N. Y. Millinery glue. No. 159,528; Sept. 26.
Smith, Conrad T., New York, N. Y. Millinery lacquer. No. 159,527; Sept. 26.
Smith, Margaret J., trading as Uza Manufacturing Co. (not Inc.), Chicago, Ill. Curtain holders. No. 159,529; Sept. 26.
Smith, Walter D., Rosedale, Kans. Blank account books. No. 159,530; Sept. 26.
Southern California Supply Co., The, Los Angeles, Calif. Beverage sold as a soft drink and sirup therefor. No. 159,643; Sept. 26.
Southwestern Cracker Co., The, Wichita, Kans. Lemon, graham, and oatmeal biscuit, peanut, cream, and vanilla wafers; soda crackers, fig bars, gingersnaps. No. 159,644; Sept. 26.
Southwestern Milling Company, Inc., The, New York, N. Y., and Kansas City, Mo. Wheat flour. No. 159,531; Sept. 26.
Sperry Flour Company, San Francisco, Stockton, Fresno, Vallejo, Los Angeles, Calif.; Creston, Spokane, and Tacoma, Wash., and Ogden, Utah. Wheat flour. No. 159,532; Sept. 26.
Spieker's, Dr., Bulgarian Yoghurt Corporation, New York, N. Y. Sour milk. No. 159,533; Sept. 26.
St. Albans Grain Company, St. Albans, Vt. Poultry, horse, and other feeds. No. 159,534; Sept. 26.
St. Louis Pump & Equipment Company, St. Louis, Mo. Storage receptacles for oil and other liquids. No. 159,645; Sept. 26.
Standard Corrugated Box Co., St. Louis, Mo. Strawboard boxes. No. 159,535; Sept. 26.
Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. No. 159,536; Sept. 26.
Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. Nos. 159,537–41; Sept. 26.
Steigler & Herman, New York, N. Y. Trunks, valises, suitcases, and traveling bags. No. 159,646; Sept. 26.
Stern, Joseph, & Sons, Inc., New York, N. Y. Pork sausage. No. 159,542; Sept. 26.
Sterolectric Company, The, Muncie, Ind. Time controller for electric appliances. No. 159,543; Sept. 26.
Stevenson, Robert T., doing business as The Stevenson Sales Company, Chicago, Ill. Can opener. No. 159,544; Sept. 26.
Stevenson Sales Company, The. (See Stevenson, Robert T.)
Sullivan Machinery Company, Boston, Mass., and Chicago, Ill. Air lifts and liquid separators. No. 159,545; Sept. 26.
Sun-Herald Corporation, The, New York, N. Y. Cartoon serials. No. 159,546; Sept. 26.
Sun Lite Bakeries System, Inc., Pittsburgh, Pa. Bakery products. No. 159,547; Sept. 26.
Superior Manufacturing Co., Massillon, Ohio. Certain cooking and household utensils of aluminum. No. 159,548; Sept. 26.
Sweet Candy Co., Salt Lake City, Utah. Candy. No. 159,549; Sept. 26.
Sykes & Thompson Co., The, Cleveland, Ohio. Confections—namely, candy. No. 159,550; Sept. 26.
Taylor, Charles G., doing business as The Bok-A-Bel Medicine Co., Peoria, Ill. Compound for treating catarrh, asthma, and colds. No. 159,551; Sept. 26.
Taylor-Williams Co., Columbus, Ohio. Repair kits for tubes. No. 159,647; Sept. 26.
Telechronometer Company of America, The, Seattle, Wash. Meters for automatically recording the length of telephone conversations in units of time. No. 159,552; Sept. 26.
Thibodeau, A. F., Company, Detroit, Mich. Eggs. No. 159,553; Sept. 26.
Thomas-Boyce Direct Feed Company, Attica, N. Y., and Indianapolis, Ind. Calf, dairy, stock, etc., feeds and poultry mash. No. 159,554; Sept. 26.
Tsutsumi, Seiroku, Tokyo, Japan. Canned crab meat, fish, vegetables, fruits, and pickles. No. 159,555; Sept. 26.
Tuckett Tobacco Company, Limited, The, Hamilton and London, Ontario, and Montreal, Quebec, Canada. Cut and plug tobacco. No. 159,556; Sept. 26.
U. S. Bottling Co. (See Silverman, Herman.)
U. S. Carburetor Co. Inc., New York, N. Y. Carburetors. No. 159,562; Sept. 26.
Uehling Instrument Company, Paterson, N. J., and New York, N. Y. Gas filters. No. 159,557; Sept. 26.
Uffelmann Baking Company, Cincinnati, Ohio. Bread. No. 159,648; Sept. 26.
Ultra Refined Crude Products Co., Chicago, Ill. Medicinal preparation. No. 159,558; Sept. 26.
United Alloy Steel Corporation, New York, N. Y., and Canton, Ohio. Steel, alloy steel, iron and steel bars, and sheet bars. Nos. 159,559–60; Sept. 26.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Cement such as is used in the manufacture and repairing of boots and shoes. No. 159,564; Sept. 26.
United States Brewing Company, Newark, N. J. Beer and near beer. No. 159,561; Sept. 26.
United States Chain & Forging Co., Pittsburgh, Pa. Chains of base metal and tire-grip chains. No. 159,563; Sept. 26.

United Stores Supply Company, Minneapolis, Minn. Powder for cleaning closet bowls. No. 159,565; Sept. 26.
Uza Manufacturing Co. (See Smith, Margaret J.)
Verso-Tone Medicine Co. (See Crooks, Harold.)
Victor Safe and Lock Company, The, Cincinnati, Ohio. Safes and locks. No. 159,567; Sept. 26.
Vincent, George, New York, N. Y. Tracing paper. No. 159,568; Sept. 26.
Vitalized Water Process Co. (See Smith, Carolyn S.)
Vollmer Clearwater Company, Ltd., The, Lewiston, Idaho. Wheat flour. No. 159,569; Sept. 26.
Wadhams Oil Company, Milwaukee, Wis. Lubricating oils. No. 159,570; Sept. 26.
Wahl Company, The, Chicago, Ill. Leads suitable for use in mechanical pencils. No. 159,571; Sept. 26.
Walker, Madam C. J., Manufacturing Company, The, Indianapolis, Ind. Toilet preparations of various kinds of toilet soaps. No. 159,572; Sept. 26.
Wallace & Co., Brooklyn, N. Y. Candies. No. 159,573; Sept. 26.
Walther & Company, New York, N. Y. Surface-coated, roll-printed, metal-coated, and embossed paper. No. 159,574; Sept. 26.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Soaps. No. 159,575; Sept. 26.
Ward Baking Company, New York, N. Y. Bread. Nos. 159,576–8; Sept. 26.
Warren Manufacturing Company, The, New York, N. Y. Glassine paper. No. 159,579; Sept. 26.
Waterman, J. S., & Co. Inc., New Orleans, La. Wheat flour. No. 159,580. Sept. 26.
West Disinfecting Company, New York, N. Y. Paper towels. No. 159,581; Sept. 26.
Western Electric Company, Incorporated, New York, N. Y. Certain articles of hardware and anchoring appliances for telephone and telegraph lines. No. 159,582; Sept. 26.
Westgate Sea Products Co., San Diego, Calif. Canned white tuna fish. No. 159,583; Sept. 26.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Writing-paper tablets, papeteries, typewriter tablets, etc. No. 159,586; Sept. 26.
White Bros. & Crum Co., Lewiston, Idaho. Fresh deciduous fruits. No. 159,584; Sept. 26.
Whitney Poultry Farm, Inc., Marlboro, N. Y. Eggs, live and dressed poultry. No. 159,649; Sept. 26.
Whyt E Nami Specialty Co., Inc., Brooklyn, N. Y. Certain bathroom fixtures and enameled ware. No. 159,586; Sept. 26.
Wildstein, Morytz H., New York, N. Y. Rye bread. No. 159,587; Sept. 26.
Wilkins, Mary F., doing business as Med-O-Lark Groves, Minneapolis, Minn. Citrus fruits in their natural state. No. 159,588; Sept. 26.
Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Crushers and like machines. Nos. 159,589–90; Sept. 26.
Wilson, F. L., Oil & Chemical Co. (See Wilson, Frank L.)
Wilson, Frank L., doing business as F. L. Wilson Oil & Chemical Co., Barry, Ill. Lubricating oils. No. 159,591; Sept. 26.
Witte, Henry, New York, N. Y. Goblets, tumblers, drinking vessels, cups, dishes, etc. No. 159,650; Sept. 26.
Wolf Doll Co. Inc., New York, N. Y. Dolls. No. 159,592; Sept. 26.
Wontshed Brush Co., Troy, N. Y. Shaving brushes. No. 159,593; Sept. 26.
Woodstock Manufacturing Co. Inc., Rochester, N. Y. Children's coaster cars. No. 159,594; Sept. 26.
Woodstock Manufacturing Co. Inc., Rochester, N. Y. Children's rockers. No. 159,595; Sept. 26.
Wooster Brush Company, The, Wooster, Ohio. Brushes. Nos. 159,596–7; Sept. 26.
Wrigley, Wm., jr. Company, Chicago, Ill. Sugar-coated chewing-gum. Nos. 159,598–9; Sept. 26.
Yeast Tablet Co., The, South Bend, Ind. Food tonic containing vitamines of yeast. No. 159,600; Sept. 26.
Yellowstone Packing Company, Billings, Mont. Meats, scrapple, chile con carne, pig souse, mincemeat. No. 159,601; Sept. 26.
Zinsser, William, & Company, Incorporated, New York, N. Y. Oil paint. No. 159,602; Sept. 26.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A. K. S. Jewelry Mfg. Co., The, New York, N. Y. Finger rings, bracelets, brooches, and bar pins. No. 160,843; Sept. 26.
Abasck, Louis, doing business as The Sealastic Co., Brooklyn, N. Y. Asphalt liquid roof coating, plastic cement, caulking and glazing cement, and boiler coating. No. 159,915; Sept. 26.
Alabama Broom and Mattress Co., Huntsville, Ala. Brooms. No. 160,227; Sept. 26.
American Bleached Goods Company, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Cotton goods in the piece. No. 157,647; Sept. 26.
American Encaustic Tiling Co. Ltd., Zanesville, Ohio, and New York, N. Y. Ceramic wall, floor, and ceiling tiles and ceramic tiles for use as bathroom fixtures. No. 146,246; Sept. 26.
American Linseed Company, New York, N. Y. Linseed oil. No. 161,476; Sept. 26.
American Optical Company, Southbridge, Mass. Optical goods and particularly spectacles, eyeglasses, etc. No. 163,025; Sept. 26.
American Tube and Stamping Company, The, Bridgeport, Conn. Lifting jacks. No. 163,429; Sept. 26.
Arcade Manufacturing Company, Freeport, Ill. Toy automobiles. No. 159,486; Sept. 26.
Arnold Brothers, Incorporated, Chicago, Ill. Bacon. No. 159,546; Sept. 26.
Atlantic Instrument Co., Inc., New York, N. Y. Wireless telephone receiving outfits, sending suits, and accessories thereto. No. 162,601; Sept. 26.
Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 158,559; Sept. 26.
Augsberger, Paul J., Atlantic City, N. J. Smoked beef. No. 158,811; Sept. 26.
B & C Radio Manufacturing Company, Boston, Mass. Radio telegraph and telephone receiving apparatus. No. 165,614; Sept. 26.
Barber Asphalt Paving Company, The, Philadelphia, Pa. Asphalt, crude and refined, and paving materials containing asphalts. No. 163,964; Sept. 26.
Barnes and Mullins. (See Barnes, Samuel B.)
Barnes, Samuel B., doing business as Barnes and Mullins, London, England. Wind musical instruments in the nature of a whistle. No. 165,004; Sept. 26.
Bayer, Charles W., doing business as Bayer Sugar Co., Cincinnati, Ohio. Malt extract and malt sugar for beverage purposes. No. 128,139; Sept. 26.
Bayer Sugar Co. (See Bayer, Charles W.)
Beaver Machine & Tool Co. Inc., Newark, N. J. Radio receiving sets. No. 163,371; Sept. 26.
Blackman, Mabel, New York, N. Y. Leather-topped steel-soled overshoes for horses. No. 146,683; Sept. 26.
Bond Foundry and Machine Company, Manheim, Pa. Shaft hangers. Nos. 164,021–2; Sept. 26.
Bonn, John H., doing business as The J. H. B. Company. Liquid and paste soaps and cleaners. No. 165,263; Sept. 26.
Boston Drinking Cup Co., Boston, Mass. Paper drinking cups. No. 161,026; Sept. 26.
Bowen Products Corporation, Auburn, N. Y. Lubricating system or apparatus and parts thereof for motor cars and trucks. No. 163,497; Sept. 26.
Briggs & Stratton Company, Milwaukee, Wis. Radio apparatus. No. 165,979; Sept. 26.
Briggs & Stratton Company, Milwaukee, Wis. Automatic electric horns or warning signals. No. 165,980; Sept. 26.
Brownlee, Joseph P., doing business as Southern Sweet Potato Exchange, Chicago, Ill. Selected potatoes in the natural state. No. 156,351; Sept. 26.
Buffalo Lens Mfg. Co., Inc., Buffalo, N. Y. Ophthalmic lenses. No. 164,581; Sept. 26.
Buffalo Specialty Company, Buffalo, N. Y. Drain solvents. No. 164,532; Sept. 26.
Castolene Lubricating Oil Co., San Francisco, Calif. Lubricating oils and greases. No. 154,013; Sept. 26.
Chadburn (Ship) Telegraph Company of America, Inc., Troy, N. Y. Ships' telegraphs, clear-view screens, searchlight control, etc. No. 134,012; Sept. 26.
Chicago, Nipple Mfg. Co. of California, Los Angeles, Calif. Tire valves. No. 167,119; Sept. 26.
Chocolate Products Company, Baltimore, Md. Candy comprised wholly or in part of chocolate. No. 159,236; Sept. 26.
Christian Moerlein Brewing Co., The, Cincinnati, Ohio. Beer. No. 103,217; Sept. 26.
Christian Moerlein Brewing Co., The, Cincinnati, Ohio. Beer. Nos. 103,219–20; Sept. 26.
Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 161,414; Sept. 26.
Count, Charles F., Chicago, Ill. Automobile and furniture polish. No. 157,658; Sept. 26.
Curtis, George W., jr., doing business as General Beverage Manufactures Co., Cleveland, Ohio. Beverages having no malt, alcohol, or similar content and being purely soft drink, like root beer, etc. No. 156,258; Sept. 26.
Daemen-Schmid, Heinrich, Uster, Switzerland. Mechanical calculating and adding machines, adding apparatus, etc. No. 159,146; Sept. 26.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Dearborn Trunk & Bag Co., Chicago, Ill. Hand bags, suitcases, trunks. No. 145,553; Sept. 26.
Demas, James, Seymour, Ind. Chocolate-covered banana. No. 159,959; Sept. 26.
Deming Company, The, Salem, Ohio. Power pumps. No. 157,260; Sept. 26.
Dependable Pictures Corporation, New York, N. Y. Motion pictures. No. 165,853; Sept. 26.
De Witt, E. C., & Co., Inc., New York, N. Y., and Chicago, Ill. Laxative sirup and tablets, kidney, bladder, and rheumatic pills, etc. No. 162,486; Sept. 26.
Diack, Archibald W., Detroit, Mich. Pyrometers. No. 163,143; Sept. 26.
Dietz, R. E., Company, New York, N. Y. Oil-burning lanterns and the burners and metal parts thereof. No. 161,769; Sept. 26.
Dimitri et Delaunay, Paris, France. Compounds resembling porcelain for electrical insulation. No. 142,230; Sept. 26.
Doerr Glass Company, Inc., Vineland, N. J. Laboratory chemical and surgical glassware. No. 162,726; Sept. 26.
Dolan, Thomas S., & Co., New York, N. Y. Lace curtains by the pair and curtain nets of cotton in the piece, draperies, etc. No. 165,124; Sept. 26.
Du-All Manufacturing Company, The, Cleveland, Ohio. Mops and a species of mops known as dusters. No. 160,237; Sept. 26.
Durgin, William B., Co., Concord, N. H. Sterling-silver ware comprising flat and hollow ware. No. 152,837; Sept. 26.
Dykeman, Nolll & Loeb, Philadelphia, Pa. Cotton piece goods. No. 166,221; Sept. 26.
Eastman Kodak Company, Rochester, N. Y. Light-sensitive photographic paper. Nos. 164,030–5; Sept. 26.
Edelman, Philip E., New York, N. Y. Complete crystal receiver and complete radio or wireless receiving outfits and sets, etc. No. 163,508; Sept. 26.
Elbee Chocolate Co. Inc., New York, N. Y. Candies. No. 160,701; Sept. 26.
Electric Machine Corporation, The, Indianapolis, Ind. Radio receiving sets and parts thereof. No. 165,537; Sept. 26.
Electric Specialty Co., Stamford, Conn. Electric motors, generators, dynamotors, and motor generators. No. 165,361; Sept. 26.
Electricitätsgesellschaft "Sanitas" mit beschränkter Haftung, Berlin, Germany. Electrical machines and apparatus for Röntgen and electromedical purposes and parts thereof. No. 149,216; Sept. 26.
Electrified Water & Machine Company, Dallas, Tex. Ginger ale. No. 166,050; Sept. 26.
Epstein Underwear Co., New York, N. Y. Clothing. No. 162,165; Sept. 26.
Everett, Heaney & Co. Inc., New York, N. Y. Printed shirtings and percales. No. 166,822; Sept. 26.
Expanded Metal Safety Guard Co., Long Island City, N. Y. Open mesh partitions, guards, steel gratings, etc. No. 164,405; Sept. 26.
F. & B. Co., New York, N. Y. Lotion for the external treatment of skin diseases, sores, eruptions, and festers. No. 163,924; Sept. 26.
Filene's, Wm., Sons Company, Boston, Mass. Hair nets. No. 163,147; Sept. 26.
Fischer, J. & C., New York, N. Y. Phonographs. No. 164,880; Sept. 26.
Flexlume Sign Company, Buffalo, N. Y. Electrically-illuminated signs. No. 155,400; Sept. 26.
Forbes Bottling Co., Park Ridge, Ill. Nonalcoholic malt-less beverages. No. 161,244; Sept. 26.
Frost, Samuel, New York, N. Y. Portable and nonportable electrical lamps. No. 155,999; Sept. 26.
Gedge-Gray Company, The, Lockland, Ohio. Sifters for bakers, millers, hotels, and restaurants, etc., combined separators and sifters, etc. No. 160,664; Sept. 26.
General Beverage Manufactures Co. (See Curtis, George W., jr.)
Gillespie Eden Corporation, New York, N. Y. Ironers and ironing machines. No. 160,407; Sept. 26.
Gorham Manufacturing Company, Providence, R. I. Table glassware, bottles, and other household and ornamental glassware, etc. No. 151,625; Sept. 26.
Great Southern Refining Company, Lexington, Ky. Kerosene and gasoline. No. 161,485; Sept. 26.
Griggs Bros. Co., The, Toledo, Ohio. Honey. Nos. 149,694–7; Sept. 26.
Hairette Remedy Company. (See Montgomery, John B.)
Hankscraft Company, Madison, Wis. Electric milk warmers, egg cookers, switches, and heaters for fireless cookers. No. 165,957; Sept. 26.
Hardmann, Cecilia, San Francisco, Calif. Dice. No. 165,498; Sept. 26.
Harwood Bros. Inc., Richmond, Va. Lubricating oils and greases. No. 162,295; Sept. 26.
Heath Radio and Electric Mfg. Co., Newark, N. J. Radio apparatus. No. 165,627; Sept. 26.
Healar Radio Corporation, Indianapolis, Ind. Radio equipment. No. 164,321; Sept. 26.
Hoffman, Samuel L., Brooklyn, N. Y., and Jersey City, N. J. Ladies' house and street dresses and men's, ladies', and children's bath robes all made of cotton. No. 158,980; Sept. 26.
Holbrook, Merrill & Stetson, San Francisco and Los Angeles, Calif. Coal, coke, wood, gas, and oil ranges, cooking and heating stoves, etc. No. 162,407; Sept. 26.
Holbrook, Merrill & Stetson, San Francisco and Los Angeles, Calif. Refuse receptacles. No. 162,408; Sept. 26.
Holden-Leonard Co., New York, N. Y. Worsted and woolen textile fabrics. No. 162,003; Sept. 26.
Holland, Marc A., London, England. Watches and watch movements. No. 156,529; Sept. 26.
Holmac, Inc., New York, N. Y. Golf balls. No. 166,139; Sept. 26.
Holman Soap Co., Chicago, Ill. Toilet soap. No. 164,593; Sept. 26.
Hunt, J. Roy, Inc., Long Island City, N. Y. Radio receiving apparatus, radio tube mountings, rheostats, etc. No. 164,439; Sept. 26.
International Magazine Corporation, New York, N. Y. Monthly publication. No. 164,761; Sept. 26.
Ivar-Lite Corporation, The, Malden, Mass. Flash lights. No. 159,704; Sept. 26.
J. H. B. Company, The. (See Bonn, John H.)
Jansen & Pretsfeld, Inc., New York, N. Y. Silk in the piece. Nos. 168,154–7; Sept. 26.
Jones of Binghamton Co. Inc., Binghamton, N. Y. Scales and weighing machines. No. 137,835; Sept. 26.
Jordan, Andrew J., St. Louis, Mo. Razors. No. 132,051; Sept. 26.
Junior Coffee Co., The, Fort Worth, Tex. Coffee. No. 158,045; Sept. 26.
Kalle & Co., Aktiengesellschaft, Biebrich-on-the-Rhine, Germany. Pharmaceutical product used as a deodorant antiseptic for wounds, etc. No. 155,695; Sept. 26.
Kansas City Wall Paper Co., Kansas City, Mo. Dry, ready-mixed, and paste paints, putty, linseed oil, turpentine, etc. No. 160,886; Sept. 26.
Katz, S. & N., Baltimore, Md. Watches. No. 160,610; Sept. 26.
Kennedy, P. S., & Company. (See Kennedy, Philip S.)
Kennedy, Philip S., doing business as P. S. Kennedy & Company, Hartford, Conn. Coffee. No. 147,035; Sept. 26.
King Feature Syndicate, Inc., New York, N. Y. Cartoons. No. 164,324; Sept. 26.
King, Julius, Optical Co., New York, N. Y. Goggles and eye protectors. No. 167,133; Sept. 26.
Kleiner, Israel S., doing business as Knickerbocker Products Co., Brooklyn, N. Y. Beverages sold as soft drinks. No. 147,293; Sept. 26.
Knickerbocker Products Co. (See Kleiner, Israel S.)
Kolak Manufacturing Co. Ltd., Tottenham, London, England. Carbon paper, typewriter ribbons, self-inking stamp pads, and stamp-pad inks. No. 164,110; Sept. 26.
Küppers Metallwerke Gesellschaft mit beschränkter Haftung, Bonn-on-the-Rhine, Germany. Solder in the form of paste, soldering ingots, soldering rods, etc. No. 150,692; Sept. 26.
Kurfess, J. F., Paint Company Incorporated, Louisville, Ky. Prepared liquid enamel paint. No. 161,606; Sept. 26.
Lafata & Borelli, Brooklyn, N. Y. Polish for furniture, automobiles, and other articles. No. 161,558; Sept. 26.
Lalley Radio Corporation, Detroit, Mich. Radio receiving sets. No. 163,091; Sept. 26.
Leighton, John H., San Francisco, Calif. Canned and cured fruits, canned vegetables, pork and beans, catchup, etc. No. 156,911; Sept. 26.
Levlin Mfg. Co., Bradford, Pa. Closures for cigarette packages and tobacco packages or bags. No. 163,995; Sept. 26.
Lewis, Wm., & Son, Chicago, Ill. Strings for musical instruments. No. 161,440; Sept. 26.
Liberty Paper Co., New York, N. Y. Sealing tape. No. 167,475; Sept. 26.
Louisville Wall Paper Co. Inc., Louisville, Ky. Dry, ready-mixed, and paste paints, putty, linseed oil, turpentine, etc. No. 160,890; Sept. 26.
Ludwig Hommel & Co., Pittsburgh, Pa. Radio or wireless telephone apparatus and equipment, transmitting apparatus, receiving sets, and parts thereof. No. 164,598; Sept. 26.
McCreery, James, & Company, New York, N. Y. Powder, jewel, pin, and soap boxes, hair receivers, salve jars, etc. No. 162,125; Sept. 26.
Maccallum, James, jr., St. Louis, Mo. Device for indicating liquid level in tanks by fluid pressure. No. 159,272; Sept. 26.
Mappin & Webb Limited, Sheffield and London, England. Tableware. No. 159,470; Sept. 26.
Mappin & Webb, Limited, Sheffield and London, England. Manicure scissors, nail clippers, files, and tweezers. No. 159,475; Sept. 26.
Mappin & Webb Limited, Sheffield and London, England. Lancets, fleams, surgical scissors, and surgical cutlery generally. No. 159,478; Sept. 26.
Marshall Field & Company, Chicago, Ill. Bedspreads and pillow shams. No. 164,888; Sept. 26.
Marshall Field & Company, Chicago, Ill. Silk and cotton mixed piece goods. No. 165,920; Sept. 26.
Mead Electric Signal Company, The, Cleveland, Ohio. Electrically-operated code senders or transmitters of signals. No. 149,409; Sept. 26.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Meadows Mfg. Co., The, Bloomington, Ill. Washing machines for laundry purposes. No. 161,828; Sept. 26.
Meissner Piano Co., Milwaukee, Wis. Pianos. No. 149,811; Sept. 26.
Mendell, J., Candy Co. (See Mendell, Jacob.)
Mendell, Jacob, doing business as J. Mendell Candy Co., Brooklyn, N. Y. Candy. No. 154,150; Sept. 26.
Merrimac Battery Plate Co. Inc., Louisville, Ky. Storage batteries. No. 164,162; Sept. 26.
Messing, Edward G., doing business as Sho-Form Company, Buffalo, N. Y. Animal soft soap. No. 165,556; Sept. 26.
Montgomery, John B., doing business as Hairette Remedy Company, Los Angeles, Calif. Liquid hair tonic. No. 162,494; Sept. 26.
Moreland Sales Corporation, Newark, N. J. Radio receiving apparatus and sets. No. 164,444; Sept. 26.
Morris & Company, Chicago, Ill. Meats, meat products, and other foods. No. 154,035; Sept. 26.
Mound Coffin Co., St. Louis, Mo. Caskets. No. 144,995; Sept. 26.
Murphy, John B., Inc., New York, N. Y. Medals and badges. No. 162,127; Sept. 26.
Myles Salt Co., Ltd., New Orleans, La. Salt. No. 163,816; Sept. 26.
National Engineering & Refining Company. (See National Engineering Company, assignor.)
National Engineering Company, assignor to National Engineering & Refining Company, Rapid City, S. Dak. Photographic salts. No. 151,684; Sept. 26.
National Fiber Textile Company, Neenah, Wis. Woven fiber rugs. No. 164,551; Sept. 26.
Nebraska Wall Paper Co., Omaha, Nebr. Dry, ready-mixed, and paste paints, putty, linseed oil, turpentine, etc. No. 160,899; Sept. 26.
Neptune Battery Co., New York, N. Y. Electric batteries. No. 163,283; Sept. 26.
New Orleans Paint & Color Company Inc., New Orleans, La. Dry, paste, and ready mixed paints and varnishes. No. 162,844; Sept. 26.
New York Consolidated Card Co., The, Long Island City, N. Y. Playing cards. No. 166,846; Sept. 26.
Nordman, Ferdinand B., jr., Number Nine Plantation, Volusia County, Fla. Fruit preserves, marmalades, jams, sirups for table use, etc. No. 146,978; Sept. 26.
North St. Louis Planing Mill Co., St. Louis, Mo. Everything in builders' woodwork. No. 155,570; Sept. 26.
Orinoka Mills, The, New York, N. Y. Upholstery goods, draperies, and furniture coverings. No. 164,662; Sept. 26.
Pacific States Electric Co., San Francisco, Calif. Electrical apparatus and fixtures. No. 160,023; Sept. 26.
Park, Edgar, New York, N. Y. Game played with pieces somewhat similar to dominoes. No. 162,890; Sept. 26.
Parker Pen Co., The, Janesville, Wis. Fountain pens. No. 164,828; Sept. 26.
Passaic Herald Company, Passaic, N. J. Daily newspaper. No. 164,451; Sept. 26.
Patek Brothers, Milwaukee, Wis. Varnishes. No. 161,451; Sept. 26.
Pathé-Cinema, Anciens Etablissements Pathe Freres, Paris, France. Apparatus for taking cinematographic pictures, cinematographic projection apparatus, projecting lanterns, etc. Nos. 158,440–1; Sept. 26.
Peterson, John O., Tacoma, Wash. Writing paper. No. 165,758; Sept. 26.
Phon-O-Game Co., The, Elizabeth, N. J. Parlor game used in conjunction with a phonograph. No. 167,266; Sept. 26.
Pneumatic Scale Corporation, Limited, Quincy, Mass. Labeling and gumming machines. No. 164,263; Sept. 26.
Poldi Steel Corporation of America, New York, N. Y. Steel billets, bars, forgings, and disks. No. 146,393; Sept. 26.
Poldi Steel Corporation of America, New York, N. Y. Steel billets, bars, forgings, and disks. No. 152,480; Sept. 26.
Power Supply Company, Terre Haute, Ind. Wood handles for tools, auger bits and auger-bit sets, lifting jacks, etc. No. 127,012; Sept. 26.
Puffer-Hubbard Manufacturing Company, Minneapolis, Minn. Child's toy wagon. No. 166,534; Sept. 26.
Puramul Dry Milk Co. (See Secord, Guy.)
Queen City Printing Ink Company, The, Cincinnati, Ohio. Printing inks. No. 160,426; Sept. 26.
Radio Improvement Co., not Inc. (See Weiss, Paul F.)
Radio Products, Corporation, Detroit, Mich. Plug and condenser adapted for attachment to an electric wiring system, used as antennæ for a radio receiving set. No. 165,822; Sept. 26.
Radiola Wireless Corp., The, New York, N. Y. Wireless receiving and transmitting sets, crystal detectors, vacuum-tube sockets, etc. No. 164,604; Sept. 26.
Recordo Player Roll Company, Chicago, Ill. Music sheets for musical-instrument players. No. 162,235; Sept. 26.
Redfield Carbonating Company. (See Schulze, Charles W.)
Reid, Murdoch & Co., Chicago, Ill. Ginger ale and root beer. No. 166,096; Sept. 26.
Reid, Murdoch & Co., Chicago, Ill. Soaps and scouring powder designated cleaner. No. 166,097; Sept. 26.
Ring, Fred C., doing business as The Ring Manufacturing Company, Kalamazoo, Mich. Spark plugs. No. 165,820; Sept. 26.
Ring Manufacturing Company, The. (See Ring, Fred C.)
Robinson, Charles M., Cincinnati, Ohio. Talking machines. No. 149,422; Sept. 26.
Rouss Syrup Manufacturing Corporation, also doing business as White Top Distributing Co., New York, N. Y. Ginger ale and a nonalcoholic maltless grape and apple drink. No. 167,012; Sept. 26.
Sandler Bros. Baking Co., Baltimore, Md. Pretzels, ice-cream cones, and cake. No. 155,239; Sept. 26.
Sandvikens Jernverks Aktiebolag, Sandvikens, Sweden. Springs for general use. No. 160,039; Sept. 26.
Schulze, Charles W., doing business as Redfield Carbonating Company, Redfield, S. Dak. Ginger ale. No. 166,808; Sept. 26.
Schwan-Bleistift-Fabrik (Swan Pencil Company). (See Schwanhäusser late Grossberger & Kurz.)
Schwanhäusser late Grossberger & Kurz, doing business as Schwan-Bleistift-Fabrik (Swan Pencil Company), Nuremberg, Germany. Lead, colored and mechanical lead, copying and slate pencils and crayons. Nos. 167,425–6; Sept. 26.
Schwanhäusser late Grossberger & Kurz, doing business as Schwan-Bleistift-Fabrik (Swan Pencil Company), Nuremberg, Germany. Lead, colored and mechanical lead, copying and slate pencils and crayons. No. 167,493; Sept. 26.
Seminatic Co., The. (See Abseck, Louis.)
Secord, Guy, doing business as Puramul Dry Milk Co., Jacksonville, Fla. Whole-milk powder. No. 156,059; Sept. 26.
Shinn, W. C., Mfg. Co., Niles, Mich., and Chicago, Ill. Antenna cable. No. 164,728; Sept. 26.
Sho-Form Company. (See Messing, Edward G.)
Shotton Radio Manufacturing Company, Inc., Albany, N. Y. Radio telephone and telegraph parts. No. 164,610; Sept. 26.
Smith, H. D., & Company, The, Plantsville, Conn. Screw drivers. No. 164,277; Sept. 26.
Smith, Kline & French Co., Philadelphia, Pa. Hard and soft candies, and chocolates. No. 158,260; Sept. 26.
Southern Sweet Potato Exchange. (See Brownlee, Joseph P.)
Stambaugh & Rabe, Auburndale, Fla. Citrus fruits in their natural state. No. 157,638; Sept. 26.
Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucets. No. 152,773; Sept. 26.
Sughrua, Thomas J., Chicago, Ill. Coin holders. No. 162,352; Sept. 26.
Taunton Rubber Co., Inc., Taunton, Mass. Rubber heels. No. 153,746; Sept. 26.
Tetralin-Gesellschaft mit beschranktes Haftung, Berlin, Germany. Varnishes, lacquers, paint oils, paints, etc. No. 142,043; Sept. 26.
Times Printing Company of Seattle, Seattle, Wash. Newspaper supplement. No. 148,098; Sept. 26.
Times Printing Company of Seattle, Seattle, Wash. Column of news in its newspaper, said column appearing from time to time. No. 151,855; Sept. 26.
Toch Brothers, New York, N. Y. Waterproofing compositions for use between decks of ferryboats and in like places. No. 161,592; Sept. 26.
Toch Brothers, New York, N. Y. Damp-resisting paints. No. 161,596; Sept. 26.
Townsend, S. P., Company. (See Townsend, Samuel P.)
Townsend, Samuel P., doing business as S. P. Townsend Company, Bloomfield, N. J. Moving machines. No. 163,364; Sept. 26.
U. R. S. Candy Stores, Inc., doing business as United Happiness Candy Stores. Candy. No. 158,905; Sept. 26.
United Happiness Candy Stores. (See U. R. S. Candy Stores, Inc.)
United Iron Works, Inc., Kansas City, Mo. Refrigerators, ice plants, water-cooling systems. No. 139,065; Sept. 26.
United States Gypsum Company, Chicago, Ill. Casting orthopedic and dental plaster. No. 159,445; Sept. 26.
Upjohn Company, The, Kalamazoo, Mich. Effervescent salt. No. 163,905; Sept. 26.
Van Arnam Manufacturing Company, Fort Wayne, Ind. Mop wringers. No. 147,900; Sept. 26.
Van Camp Packing Company Inc., The, Indianapolis, Ind. Salad oil. No. 152,108; Sept. 26.
Vibralarm Mfg. Company, The, Kansas City, Mo. Electrically-operated automobile theft alarms. No. 165,432; Sept. 26.
Vignolo-Giacomino Company, Incorporated, Los Angeles, Calif. Olive oil. No. 153,486; Sept. 26.
Wadhams Oil Company, Milwaukee, Wis. Lubricating oils. No. 162,863; Sept. 26.
Wagner Manufacturing Company, The, Sidney, Ohio. Teakettles. No. 165,736; Sept. 26.
Walsh & Mead, New York, N. Y. Valve lifters. No. 163,723; Sept. 26.
Walther, Louis, Manufacturing Company, Philadelphia, Pa. Worsted piece goods, woolen piece goods, worsted and cotton piece goods, etc. No. 164,737; Sept. 26.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Ward Baking Company, New York, N. Y. Sugar products containing water-soluble vitamines, bran, etc. No. 154,780; Sept. 26.

Warwick Knitting Mills, Inc., New York and Brooklyn, N. Y. Knitted fabrics of silk and wool in the piece and knitted fabrics of wool in the piece. No. 165,515; Sept. 26.

Weiss, Paul F., doing business as Radio Improvement Co., Not Inc., Chicago, Ill. Radio apparatus. No. 163,555; Sept. 26.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio telephone and telegraph transmitters and receivers, etc. No. 163,421; Sept. 26.

Wheeler Varnish Works, Chicago, Ill. House paint and varnish. No. 136,494; Sept. 26.

White Top Distributing Co. (See Rouss Syrup Manufacturing Corporation.)

Witmor Candy Co., San Francisco, Calif. Candy. No. 160,453; Sept. 26.

Woodlawn Mill & Boom Company, The, Hoquiam, Wash. Cedar shingles. No. 148,858; Sept. 26.

Woolson Spice Co., The, Toledo, Ohio. Coffee. No. 139,015; Sept. 26.

Worthington Pump and Machinery Corporation, New York, N. Y. Battery lighting plants, electric-lighting plants, switchboards. No. 149,614; Sept. 26.

Wright, Denver M., doing business as Wright Specialty Mfg. Co., St. Louis, Mo. Belts for men's and women's wear. No. 162,085; Sept. 26.

Wright Specialty Mfg. Co. (See Wright, Denver M.)

Ziegler, George, Co., Milwaukee, Wis. Candies. No. 149,843; Sept. 26.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 26TH DAY OF SEPTEMBER, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acetic anhydride, Manufacture of. H. Dreyfus. No. 1,430,304; Sept. 26.

Acids, Manufacture of. W. O. Snelling. No. 1,430,035; Sept. 26.

Adding, calculating, and recording machine. H. Landsiedel. No. 1,430,088; Sept. 26.

Advertising device. V. S. Morley. Nos. 1,430,314–15; Sept. 26.

Aeroplane construction. R. Verduzio. No. 1,430,128; Sept. 26.

Air brake, Compound. W. G. Canlon. Nos. 1,430,357–9; Sept. 26.

Air cleaner. E. R. Evans. No. 1,430,066; Sept. 26.

Air moistener. E. Savery. No. 1,430,119; Sept. 26.

Alarm: *See*—
Fire alarm.

Aliphatic dialkylamino alkyl compounds and making same. M. Bockmühl and A. Schwarz. No. 1,429,922; Sept. 26.

Alkalies, Fusion of organic substances with. F. W. Atack and J. Anderson. No. 1,430,277; Sept. 26.

Alloy for repair purposes, Metallic. P. O. Melton. No. 1,429,959; Sept. 26.

Aluminum chloride crystals, Preparing. H. Howard. No. 1,430,449; Sept. 26.

Amalgamating cell. C. C. McBride. No. 1,430,091; Sept. 26.

Amusement device. W. G. Miller. No. 1,430,396; Sept. 26.

Annunciator. C. P. Evans, M. L. Greenstreet, and W. Day. No. 1,430,364; Sept. 26.

Arm, Hammerless small. J. Dessard. No. 1,430,218; Sept. 26.

Armature winding. W. J. Warder, jr. No. 1,430,130; Sept. 26.

Auto fender. S. G. Fitz Simons. No. 1,430,224; Sept. 26.

Automatic switch. J. Kenner. No. 1,430,510; Sept. 26.

Automobile accelerator. J. Brautigam. No. 1,430,003; Sept. 26.

Automobile fan. E. H. Arnold. No. 1,430,276; Sept. 26.

Automobile lock. H. W. Lampman. No. 1,430,239; Sept. 26.

Automobile lock. R. T. Newton. No. 1,430,463; Sept. 26.

Automobile lock. F. Staggs and M. Reynolds. No. 1,430,472; Sept. 26.

Automobile locking device. J. F. Rose. No. 1,430,325; Sept. 26.

Automobile signal device. A. Berger. No. 1,430,352; Sept. 26.

Automobile signaling device. W. E. F. Gibson. No. 1,430,442; Sept. 26.

Automobile visor. J. B. Gats. No. 1,430,499; Sept. 26.

Automobiles, etc., Brake-band lining for. J. C. Barefoot and A. A. Knee. No. 1,430,143; Sept. 26.

Automobiles, Pull belt for stalled. J. Simon. No. 1,430,471; Sept. 26.

Automobiles, Signal device for. L. L. Schmidt, T. W. Beuchel, and P. C. Otwell. No. 1,430,264; Sept. 26.

Axle construction, Rear-. H. Ford. No. 1,430,367; Sept. 26.

Bag. W. H. Smith. No. 1,430,267; Sept. 26.

Bag frame. W. C. Clausen. No. 1,430,057; Sept. 26.

Bags, Means for holding fittings in. W. B. Smith. No. 1,430,333; Sept. 26.

Bait or lure, Fish. W. A. Stolley. No. 1,430,336; Sept. 26.

Banjo attachment. K. Kottmeyer. No. 1,430,086; Sept. 26.

Barrel or drum construction. J. L. Walker. No. 1,430,419; Sept. 26.

Batteries, Means for charging storage. C. E. Ogden. Nos. 1,430,106–7; Sept. 26.

Batteries, Treating and restoring used storage. H. E. Hunt. No. 1,430,167; Sept. 26.

Bearing. E. H. Grafton. No. 1,430,074; Sept. 26.

Bearing, Self-aligning high-speed ball-race. J. W. Parker. No. 1,430,319; Sept. 26.

Bearing sleeve extractor. F. C. Haney. No. 1,430,164; Sept. 26.

Bed table, Folding-. M. Koltunski. No. 1,430,016; Sept. 26.

Bedsteads, Corner fastening for. R. R. Smith. No. 1,430,126; Sept. 26.

Beet-topping machine. C. H. and W. F. Weyh. No. 1,429,988; Sept. 26.

Belt buckle. G. E. Prentice and R. C. Legat. No. 1,430,255; Sept. 26.

Belt fastener. J. J. B. J. Bodvy (Nicolaaszoon). No. 1,430,211; Sept. 26.

Bicycle crank-hanger construction. J. W. Kelley. No. 1,430,235; Sept. 26.

Binder, Temporary. L. L. Fleck. No. 1,430,366; Sept. 26.

Biotite, Treating. J. Keeth. No. 1,430,085; Sept. 26.

Bit: *See*—
Well-drilling bit.

Blanks, Bifurcating. R. L. Wilcox. No. 1,429,990; Sept. 26.

Block: *See*—
Wheel block.

Boat, Submarine. O. Flamm. No. 1,429,941; Sept. 26.

Boats, Apparatus for detecting and indicating the presence of submarine. G. E. Elia. No. 1,430,162; Sept. 26.

Bobbin-winding machine. P. A. Herr. No. 1,430,079; Sept. 26.

Bolt: *See*—
Stay bolt.

Book, Loose-leaf. R. G. Whitlock. Nos. 1,430,046–7; Sept. 26.

Boring machine. N. Anderson. No. 1,429,916; Sept. 26.

Boring machine. H. M. Tucker. No. 1,430,339; Sept. 26.

Bottle cap. G. A. Williams. No. 1,430,133; Sept. 26.

Bottle cap, Milk-. E. M. Hill. No. 1,430,308; Sept. 26.

Bottle-capping apparatus. L. A. Brigel. No. 1,430,283; Sept. 26.

Bottle closure. V. Millity. No. 1,430,313; Sept. 26.

Bottle, Safety. F. Clark. No. 1,430,435; Sept. 26.

Bottle stopper. R. Catella. No. 1,429,929; Sept. 26.

Bottle-washing machine. G. J. Meyer. No. 1,429,960; Sept. 26.

Bottles, etc., Machine for filling. J. F. Geyer. (Reissue.) No. 15,460; Sept. 26.

Box: *See*—
Coin and stamp box. Oil box.
Fruit box.

Box. R. I. Rhodes. No. 1,430,029; Sept. 26.

Bracket: *See*—
Kit-holding bracket.

Brake: *See*—
Air brake. Sleigh brake.
Car brake.

Brake head. E. G. Busse and G. N. Van Sweringen. No. 1,430,355; Sept. 26.

Brake mechanism. W. Barber. No. 1,430,349; Sept. 26.

Brush nozzle, Air-. B. E. Holton. No. 1,430,506; Sept. 26.

Brushes, Scraper attachment for various. C. H. and C. W. Forsberg. No. 1,430,441; Sept. 26.

Buffer and other springs constructed of india rubber. C. W. C. Hine. No. 1,430,230; Sept. 26.

Building block. M. L. Binkley. No. 1,430,431; Sept. 26.

Bumper attachment means. R. T. Newton. No. 1,430,464; Sept. 26.

Burner: *See*—
Hydrocarbon burner. Liquid-fuel burner.
Kerosene burner. Oil burner.

Butter-cutting machine. E. Hartung. No. 1,430,078; Sept. 26.

Buttermilk, Desiccated. I. S. Merrell. No. 1,430,312; Sept. 26.

Button, Separable. A. H. Eddy. No. 1,430,008; Sept. 26.

Cable, Hauling. W. von Raczynski. No. 1,430,042; Sept. 26.

Calendar. L. J. Brabant. No. 1,430,212; Sept. 26.

Calendar device. A. N. Peffly. No. 1,430,112; Sept. 26.

Camera, Photographic. T. Wallace. No. 1,430,478; Sept. 26.

Can-feeding apparatus. M. E. Wilberts. No. 1,430,132; Sept. 26.

Car brake. F. P. Beverly and C. Caldwell. No. 1,430,487; Sept. 26.

Car brake. W. H. Grow. No. 1,430,501; Sept. 26.

Car door. E. Christenson. No. 1,430,056; Sept. 26.

Car-door-operating mechanism. W. J. Hosceit. No. 1,430,378; Sept. 26.

Car roof. J. L. Mohun. No. 1,429,961; Sept. 26.

Cars and the like, Radiator for motor. A. Lamblin. No. 1,430,170; Sept. 26.

Carbon remover. J. F. Smerschnik. No. 1,430,033; Sept. 26.

Carburetor. A. C. Bennett. No. 1,430,001; Sept. 26.

Carburetor. D. L. Winters. No. 1,430,482; Sept. 26.

Carburetor, Means for completing the vaporisation and homogenization of mixture delivered by a. A. B. Evans. No. 1,430,222; Sept. 26.

Card holder. B. C. Bridgham. No. 1,430,282; Sept. 26.

Carpet or rug fastener. W. Broome. No. 1,430,353; Sept. 26.

Carpet protector. C. B. Walsh. No. 1,430,341; Sept. 26.
Carrier: *See*—
Mail carrier.
Carrier. R. F. Rasmussen. No. 1,430,186; Sept. 26.
Case: *See*—
Shipping case.
Ceiling. M. Wiepcke. No. 1,430,481; Sept. 26.
Ceramic press. H. D. Lillibridge. No. 1,430,019; Sept. 26.
Chain-making machine. E. J. Lyter. No. 1,430,456; Sept. 26.
Check-writing machine. T. J. Hyman. No. 1,430,014; Sept. 26.
Chimney. A. J. Filkins. No. 1,430,068; Sept. 26.
Chloridizing process and apparatus. F. S. Low. No. 1,430,454; Sept. 26.
Chuck, Pneumatic. M. D. Becker. No. 1,430,050; Sept. 26.
Churn covers, Lock for. T. L. Valerius and O. Larsen. No. 1,430,202; Sept. 26.
Cigar wrapper. R. S. Reynolds. No. 1,430,023; Sept. 26.
Circuits, Desk operator's. W. A. Rhodes. No. 1,429,972; Sept. 26.
Clamp: *See*—
Wheel clamp.
Clay bodies, Apparatus for drying. E. B. Ayres. No. 1,429,997; Sept. 26.
Cleaner: *See*—
Air cleaner. Paper cleaner.
Cleaning compound. S. E. Smyth. No. 1,429,978; Sept. 26.
Clutch. J. L. Peterson. No. 1,430,468; Sept. 26.
Clutch-control lever. C. T. Norton. No. 1,430,317; Sept. 26.
Clutch-controlling mechanism. M. P. Holmes. No. 1,430,520; Sept. 26.
Clutch, Friction. T. Morgan. No. 1,429,962; Sept. 26.
Coal Handling. J. H. D. Petersen. No. 1,430,183; Sept. 26.
Coal washer. F. Courtoy. No. 1,430,216; Sept. 26.
Coating composition. A. C. Holmquist. No. 1,430,063; Sept. 26.
Coating composition and process. L. D. Wood. No. 1,430,484; Sept. 26.
Coil-box protector. F. P. Lide. No. 1,430,241; Sept. 26.
Coin and stamp box. J. R. Halley. No. 1,430,307; Sept. 26.
Coke from waste fuel and residues, Plant for separating. W. Weber. No. 1,429,987; Sept. 26.
Combination lock. H. H. Smith. No. 1,430,332; Sept. 26.
Combing machine. J. W. Nasmith. No. 1,430,023; Sept. 26.
Complemental parts, Producing. E. B. Nichols. No. 1,430,024; Sept. 26.
Concrete-casing-making machine. C. H. Lassiter. No. 1,430,451; Sept. 26.
Concrete columns, Form for. C. H. Hopmann. No. 1,430,376; Sept. 26.
Concrete construction, Form for. S. J. Oswald. No. 1,430,108; Sept. 26.
Concrete floor construction. H. L. Wells. No. 1,430,424; Sept. 26.
Concrete walls, Collapsible core for hollow. E. J. Eddy. No. 1,430,439; Sept. 26.
Container. C. H. Crowell. No. 1,430,287; Sept. 26.
Controlling system. L. De Markus. No. 1,430,290; Sept. 26.
Cooling bread and similar operations, Apparatus for. G. B. Egnert. No. 1,430,160; Sept. 26.
Copper from solutions, Process of and apparatus for precipitating. F. S. Adams. No. 1,430,140; Sept. 26.
Core, Collapsible. F. D. Mason. No. 1,429,957; Sept. 26.
Corn popper. W. D. Labadie. No. 1,430,511; Sept. 26.
Corner bead. J. Johnson. No. 1,430,508; Sept. 26.
Corset, Belt. J. Siegel. No. 1,430,121; Sept. 26.
Cotton-combing machine. W. Cordwell and D. Barker. No. 1,430,286; Sept. 26.
Cotton, Imparting transparent effects to. H. Forster. No. 1,430,163; Sept. 26.
Counter stiffener. M. L. Dodge. No. 1,430,158; Sept. 26.
Coupling: *See*—
Shaft coupling.
Crank, Safety starting. C. Erb. No. 1,430,064; Sept. 26.
Crank shafts, Means for silencing. C. H. Wills. No. 1,430,344; Sept. 26.
Cue-tip fastener. H. J. Grenier. No. 1,430,560; Sept. 26.
Culinary utensil. C. Olson. No. 1,430,318; Sept. 26.
Cushion spring, Seat-. F. W. Morse. No. 1,430,249; Sept. 26.
Cutter: *See*—
Gasket cutter. Hair cutter.
Cylinder-head construction. R. A. Beckwith. No. 1,430,051; Sept. 26.
Dehydration, Automatic. F. W. Harris. No. 1,430,302; Sept. 26.
Dehydrator. H. C. Eddy and J. T. Worthington. No. 1,430,294; Sept. 26.
Dehydrator. F. W. Harris. No. 1,430,300; Sept. 26.
Dehydrator, Adjustable field. H. C. Eddy. No. 1,430,295; Sept. 26.
Dehydrator, Double field. H. C. Eddy. No. 1,430,296; Sept. 26.
Dehydrator, Stratifying. W. Meredith. No. 1,430,246; Sept. 26.
Dehydrators, Starter for electrical. F. W. Harris. No. 1,430,301; Sept. 26.
Depth and angle gauge, Combined. E. Barlow. No. 1,429,999; Sept. 26.
Desk. J. F. Niemuth. No. 1,430,465; Sept. 26.
Dirigible. C. J. Lynde. No. 1,430,393; Sept. 26.
Displaying device. M. Jones. No. 1,430,509; Sept. 26.
Diving dress. M. C. Schweinert. No. 1,430,194; Sept. 26.
Dolls, toy animals, and the like, Eyes of. T. Mathews. No. 1,430,093; Sept. 26.
Door checks, Locking device and releasing mechanism for. N. L. Schloss. No. 1,430,192; Sept. 26.
Door-controlling mechanism. J. B. Harris. No. 1,430,228; Sept. 26.
Door, Grain. G. M. Waddy. No. 1,429,985; Sept. 26.
Door-operating mechanism, Electric. F. E. Wilterding and N. N. Buck. No. 1,430,266; Sept. 26.
Door, Screen. J. Icher. No. 1,430,015; Sept. 26.
Dough-molding machine. J. A. Sexauer. No. 1,430,265; Sept. 26.
Draft or blower plate, Folding. L. and M. Hopkins. No. 1,430,013; Sept. 26.
Drainage device. F. M. Sonday. No. 1,430,197; Sept. 26.
Dredge hull. W. H. Owens and J. L. Taylor. No. 1,430,179; Sept. 26.
Drum or the like, Veneer. J. L. Walker. No. 1,430,420; Sept. 26.
Drying machine. P. J. Shampay. No. 1,429,976; Sept. 26.
Egg crate. E. F. Wildmann and W. Kuersten. No. 1,430,295; Sept. 26.
Electrical apparatus. G. E. Huise. No. 1,429,948; Sept. 26.
Electrolliers and for like electrical purposes, Suspension chain for. E. J. Perry. No. 1,430,402; Sept. 26.
Embroidering machines, Fabric frame for several-needle. M. R. Bretschneider. No. 1,430,152; Sept. 26.
Engine: *See*—
Internal-combustion engine.
Engine. C. F. Kettering. No. 1,430,524; Sept. 26.
Engines, Means to prevent dead centers in. J. Calcaterra and O. J. Bernardoni. No. 1,430,491; Sept. 26.
Engines, Piston for hydrocarbon. S. D. Hartog. No. 1,430,010; Sept. 26.
Esters, Making. W. H. Rodebush. No. 1,430,324; Sept. 26.
Excavator. L. P. Green. No. 1,430,076; Sept. 26.
Explosive composition and the manufacture thereof. E. M. Werner. No. 1,430,272; Sept. 26.
Extractor: *See*—
Bearing-sleeve extractor.
Extrusion, Manufacture of articles by. C. A. Parsons, A. G. Carnegie, M. Bone, and S. S. Cook. No. 1,430,399; Sept. 26.
Fabric. R. M. Carson and J. J. Leahy. No. 1,430,360; Sept. 26.
Fan. E. B. Ayres. No. 1,430,486; Sept. 26.
Farming implement, Power-operated. G. O. Hodge. No. 1,429,946; Sept. 26.
Fastener, Separable. E. R. Nebelling. No. 1,430,462; Sept. 26.
Fastening device. H. P. La Borde. No. 1,430,238; Sept. 26.
Feeder, Poultry. G. Reinhardt. No. 1,430,405; Sept. 26.
Feet, Apparatus for treatment of the. M. A. Radford. No. 1,430,404; Sept. 26.
Felt and making the same, Composite. R. P. Perry. (Reissue.) No. 15,461; Sept. 26.
Fence. O. Johnson. No. 1,430,382; Sept. 26.
Fender: *See*—
Auto fender.
Fertilizer distributor. W. C. Creel. No. 1,430,155; Sept. 26.
Fibrous composition and manufacture thereof, Colored. A. R. Lukens. No. 1,430,392; Sept. 26.
Filing appliance. L. Wagemaker. No. 1,430,043; Sept. 26.
Filter. R. C. Campbell. No. 1,430,518; Sept. 26.
Filter. J. S. Keitline. No. 1,430,234; Sept. 26.
Fire alarm. E. H. Field. No. 1,430,067; Sept. 26.
Fishing net. J. K. Dukas. No. 1,430,221; Sept. 26.
Flax fiber, Process for recovering. R. E. Rindfuss and V. Voorhees. No. 1,430,115; Sept. 26.
Fluid-pressure controller. V. V. Veenschoten. No. 1,430,127; Sept. 26.
Flying-machine structure. C. Dornier. No. 1,430,220; Sept. 26.
Forging and heat-treating furnace, Electric. F. G. Dawson. No. 1,430,438; Sept. 26.
Foul-air remover. J. McNulty. No. 1,430,460; Sept. 26.
Four-air removers, Collapsible jacket for. J. McNulty. No. 1,430,459; Sept. 26.
Frame: *See*—
Bag frame.
Fruit box, Collapsible. R. E. Lowey. No. 1,430,455; Sept. 26.
Fruit, Machine for treating. G. E. Fisher. No. 1,430,009; Sept. 26.
Fruit, Machine for treating. A. E. Stanley. No. 1,430,124; Sept. 26.
Fuel-briquette material, Fluxer for. G. Komarek. No. 1,430,384; Sept. 26.
Fuel, Device for effecting the combination of. A. Sauer. No. 1,430,527; Sept. 26.
Fuel for briquetting purposes, Treating. G. Komarek. No. 1,430,386; Sept. 26.
Furnace: *See*—
Ore-treating furnace.
Furnace-charging device. W. E. Moore. No. 1,430,397; Sept. 26.
Furnaces, Automatic control of electrical. T. E. Niblock. No. 1,430,104; Sept. 26.
Furniture spring. F. W. Morse. No. 1,430,248; Sept. 26.
Fuse-gripping device. H. B. Bush. No. 1,430,053; Sept. 26.

Fuse, Refillable electric. G. H. Drabenstott. No. 1,429,938; Sept. 26.
Game-tallying device, Pool-. C. H. Ritzman. No. 1,430,262; Sept. 26.
Game trap. A. McMullen. No. 1,430,242; Sept. 26.
Garment, Union. W. S. Skelton. No. 1,430,409; Sept. 26.
Gas generator and retort apparatus, Combined. G. P. Lewis. No. 1,430,452; Sept. 26.
Gas heater. H. E. Loebe. No. 1,430,391; Sept. 26.
Gasket and making same. E. A. Nelson. No. 1,430,103; Sept. 26.
Gasket cutter. C. H. Hennings. No. 1,430,373; Sept. 26.
Gasoline tanks, Water drain for. J. Widme. No. 1,430,425; Sept. 26.
Gauge: *See*—
Oil gauge. Pressure gauge.
Gauge cock. H. A. Frackelton. No. 1,430,368; Sept. 26.
Gear-cutting machine, Multiple. J. L. Perkins, F. W. Sickles, and J. Oakley. No. 1,430,252; Sept. 26.
Gearings, Casing for transmission. W. S. Wright. No. 1,430,346; Sept. 26.
Gin attachment. C. A. Hooton. No. 1,429,947; Sept. 26.
Gocart, Collapsible. H. R. Olsen. No. 1,429,906; Sept. 26.
Golf-practice net. J. R. Bolton. No. 1,430,280; Sept. 26.
Grain and seed grader and separator. E. D. Eddy. No. 1,430,293; Sept. 26.
Grates, Guard for. W. S. Board. No. 1,430,488; Sept. 26.
Grease-cup plug. M. P. McLaughlin. No. 1,430,458; Sept. 26.
Grinding and polishing machine. J. Carrie. No. 1,430,214; Sept. 26.
Grinding machines, Work support for. M. G. Zongaro. No. 1,430,426; Sept. 26.
Grinding mill, Conical or cylinder. A. C. Bittner. No. 1,430,432; Sept. 26.
Gripping device, Ground-. P. J. McNamee. No. 1,430,243; Sept. 26.
Grommet. J. Vodicka. No. 1,430,129; Sept. 26.
Guns, Sighting device for armored portable. R. Schürmann. No. 1,430,193; Sept. 26.
Hair cutter. A. Langlais. No. 1,430,512; Sept. 26.
Hair-cutting machine. P. A. Malvick. No. 1,430,173; Sept. 26.
Hairpin. W. H. Burns. No. 1,430,424; Sept. 26.
Hairpin-crimping machinery. H. P. Smith. No. 1,430,331; Sept. 26.
Hammers, Work clamping and cushioning attachment for pneumatic. T. A. Dicks. No. 1,430,292; Sept. 26.
Handle, Adjustable. W. A. Field. No. 1,429,940; Sept. 26.
Hardness-testing apparatus. A. Repper. No. 1,430,261; Sept. 26.
Harrow. E. J. Mann. No. 1,430,211; Sept. 26.
Harrow. D. S. Wolverton. No. 1,430,483; Sept. 26.
Harvester cutting mechanism. P. J. Shaw. No. 1,430,408; Sept. 26.
Harvesters and the like, Conveyer-chain guide for cane. F. C. D. Wilkes and F. K. Flynn. No. 1,429,991; Sept. 26.
Headlamp for automobiles. R. Brown. No. 1,430,433; Sept. 26.
Headlight for automobiles, Dirigible. N. E. Phillips and J. E. Mathers. No. 1,430,329; Sept. 26.
Headlight for motor vehicles, Dirigible. E. D. Innis. No. 1,430,380; Sept. 26.
Headlight screen. E. W. Ledge. No. 1,430,390; Sept. 26.
Heater: *See*—
Gas heater. Water heater.
Heater. H. N. Smith and G. A. Wartman. No. 1,430,413; Sept. 26.
Heaters and burners, Vaporizer for fuel. G. P. Kittel. No. 1,430,383; Sept. 26.
Heating apparatus. W. F. Doerfling. No. 1,430,159; Sept. 26.
Heel-building machine. R. C. Simmons. No. 1,430,032; Sept. 26.
Heels, Fastening device for detachable shoe. L. Iannello. No. 1,430,168; Sept. 26.
Hob and making it. W. F. Zimmermann. No. 1,430,485; Sept. 26.
Holddown device. J. A. Kearney. No. 1,429,952; Sept. 26.
Horse collar. R. S. Lane. No. 1,430,513; Sept. 26.
Hub, Spring. S. N. Bloomdale. No. 1,430,002; Sept. 26.
Humidity controller. A. Roesch. No. 1,429,973; Sept. 26.
Husking peg. A. S. Wannemacker. No. 1,430,343; Sept. 26.
Hydrocarbon burner. D. M. Syme. No. 1,430,415; Sept. 26.
Hydrocarbon from aluminum chloride, Separating. E. V. Owen. No. 1,430,169; Sept. 26.
Hydrocarbons from heavier hydrocarbons, Process of and apparatus for producing lighter. C. V. Weegerer. No. 1,429,992; Sept. 26.
Ice cream, Machine for cutting brick. W. C. Walsh. No. 1,430,342; Sept. 26.
Indicator: *See*—
Temperature indicator. Time indicator.
Insole-rounding machine. C. C. Blake. No. 1,430,210; Sept. 26.
Insulating objects, Process for producing electrical. A. Sidler. No. 1,430,266; Sept. 26.
Insulation for rail joints, Sectional. C. A. Disbrow. No. 1,429,934; Sept. 26.
Internal-combustion engine. J. O. Almen. No. 1,430,275; Sept. 26.
Internal-combustion engine. T. H. Venn. No. 1,430,041; Sept. 26.
Internal-combustion engine. W. B. S. Whaley. No. 1,430,480; Sept. 26.
Jack: *See*—
Lifting jack.
Jack. H. Baron. No. 1,430,144; Sept. 26.
Jar holder. G. H. Scott. No. 1,430,328; Sept. 26.
Jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,430,084; Sept. 26.
Joint: *See*—
Rail joint.
Joint for coupling shafts, Universal. C. M. Spangler. No. 1,429,980; Sept. 26.
Journal lubricator. J. J. Hennessy. No. 1,430,372; Sept. 26.
Kerosene burner. J. S. Neel. No. 1,430,105; Sept. 26.
Kilns and the like, Furnace-drawing apparatus for lime and cement. C. Candlot. No. 1,429,925; Sept. 26.
Kit-holding bracket. R. F. Webber. No. 1,430,525; Sept. 26.
Lacing hooks, Machine for inserting. W. Ochs. No. 1,429,965; Sept. 26.
Ladder. H. H. Braun and G. H. Tenbrook. No. 1,430,281; Sept. 26.
Lamp, Miner's. P. Miglio. No. 1,430,247; Sept. 26.
Lamp-shade-tilting device. A. S. Cubitt. No. 1,430,156; Sept. 26.
Lamp support. W. C. Neahr. No. 1,430,101; Sept. 26.
Lamp, Therapy. F. F. Burdick. No. 1,430,354; Sept. 26.
Lamps, Process and apparatus for sealing. R. Le Rossignol. No. 1,430,118; Sept. 26.
Latch. J. L. Seaver. No. 1,430,230; Sept. 26.
Lath. W. D. Hicks. No. 1,430,080; Sept. 26.
Laundry machines, Gear mechanism for. W. Bartholomew. No. 1,430,200; Sept. 26.
Lawn rake. C. F. Hamilton. No. 1,430,227; Sept. 26.
Lead and zinc extraction. W. G. Waring. No. 1,430,270; Sept. 26.
Legging. M. Rosenwasser. No. 1,430,030; Sept. 26.
Lens mount and forming same. H. C. Rees. No. 1,430,114; Sept. 26.
Lifting jack. E. C. Bates. No. 1,430,350; Sept. 26.
Lifting jack. A. H. F. Hers. No. 1,429,945; Sept. 26.
Lights, Regulating bracket for movable. R. E. Williams. No. 1,430,135; Sept. 26.
Lime, Removal of soap contained in the sludge of carbonate of. P. Krebitz. No. 1,430,017; Sept. 26.
Liquid body, Apparatus for removing objects from a. F. Stebler. No. 1,430,198; Sept. 26.
Liquid-feed system and method. C. L. Stokes. No. 1,430,038; Sept. 26.
Liquid-fuel burner. W. J. Barber and W. J. Irvin. No. 1,430,278; Sept. 26.
Liquid materials, Agitator for. W. G. Devereux. No. 1,430,382; Sept. 26.
Lock: *See*—
Automobile lock. Permutation lock.
Combination lock.
Lock. D. K. Miller. No. 1,430,176; Sept. 26.
Lock. C. W. Snedeker. No. 1,430,196; Sept. 26.
Locomotive driving boxes, Lateral-motion appliance for. F. F. Scoville. No. 1,430,329; Sept. 26.
Loom shuttle. A. E. Rhoades. No. 1,430,187; Sept. 26.
Looms, Magazine for weft-replenishing. R. Crompton, W. E. Woodman, and R. J. Adams. No. 1,430,005; Sept. 26.
Lubricator: *See*—
Journal lubricator.
Lubricator. O. Swanson. No. 1,429,199; Sept. 26.
Mail-box bracket and signal. H. E. Trebell. No. 1,430,476; Sept. 26.
Mail carrier. F. E. Poston and J. S. Humphries. No. 1,430,515; Sept. 26.
Map holder. H. Woodhouse. No. 1,430,207; Sept. 26.
Match machines, Waste collector for. L. E. Parker. No. 1,430,111; Sept. 26.
Mattress-filling machine. P. Baker. No. 1,429,998; Sept. 26.
Measuring device, Foot-. G. W. Nelson. No. 1,429,963; Sept. 26.
Measuring machines, Register for fabric-. D. Turner. No. 1,429,983; Sept. 26.
Mechanical movement. A. L. De Leeuw. No. 1,430,496; Sept. 26.
Metal shaper. A. W. Parkes. No. 1,430,180; Sept. 26.
Milk, Process and apparatus for acting upon. F. A. Plummer. No. 1,430,403; Sept. 26.
Milking apparatus. W. Morgan and C. J. Muckle. No. 1,430,022; Sept. 26.
Milking machines, Teat cup for. N. D. Rutherford. No. 1,430,191; Sept. 26.
Milling machine. G. Komarek. No. 1,430,385; Sept. 26.
Milling machine. G. D. Sundstrand. No. 1,430,268; Sept. 26.
Mine. G. H. Ellis. No. 1,430,161; Sept. 26.
Mining machine. M. P. Holmes. Nos. 1,430,521–2; Sept. 26.
Mirror and light shield, Combination. H. Hubbell. No. 1,430,379; Sept. 26.
Mixing and beating machine. H. Trust and F. M. Ashley. No. 1,430,040; Sept. 26.
Mixing device. C. E. Flatter and O. E. Christopher. No. 1,430,290; Sept. 26.
Mixing, kneading, mashing, cooling, or chopping substances, Machine for. L. Heiser. No. 1,430,012; Sept. 26.

Moistening device. R. D. Cayce. No. 1,430,492; Sept. 26.
Motor: *See*—
Wind motor.
Munition casing. V. Mauck. No. 1,429,958; Sept. 26.
Music holder. H. Stengel. No. 1,430,335; Sept. 26.
Musical instrument, Stringed. F. J. Kummeth. No. 1,429,954; Sept. 26.
Musical instruments, Player mechanism for. W. A. Watson and W. Eustis. No. 1,430,517; Sept. 26.
Mute. P. Mazzeri. No. 1,430,175; Sept. 26.
Necktie. O. Kafka. No. 1,429,951; Sept. 26.
Numbering fixture. J. Severson. No. 1,430,407; Sept. 26.
Nut-castellating mechanism. A. Spear. No. 1,430,334; Sept. 26.
Nut, Lock. J. C. Lego. No. 1,429,955; Sept. 26.
Oil box. W. H. Burns. No. 1,430,490; Sept. 26.
Oil burner. M. G. Talcott. No. 1,430,337; Sept. 26.
Oil burner. W. A. Wallace. No. 1,430,044; Sept. 26.
Oil burner, Domestic. C. Warwick. No. 1,430,131; Sept. 26.
Oil burner, Hydrocarbon-. G. F. Allen. No. 1,430,428; Sept. 26.
Oil-burning systems, Automatic control for mechanical. G. S. Blankenhorn. No. 1,430,279; Sept. 26.
Oil gauge. H. T. Hops. No. 1,430,377; Sept. 26.
Oil guard. C. W. Francis. No. 1,429,942; Sept. 26.
Oil product, Vulcanized. W. O. Snelling. No. 1,430,034; Sept. 26.
Oil-testing apparatus. C. A. McIntosh. No. 1,430,310; Sept. 26.
Oils, Central circulation dehydrator for petroleum. W. Meredith. No. 1,430,245; Sept. 26.
Optical projection apparatus applicable particularly to optical projection lanterns, cinematograph projectors, and the like. P. E. Correll. No. 1,430,494; Sept. 26.
Optical square. P. Nichterlein. No. 1,430,316; Sept. 26.
Ore-treating furnace. C. C. Grimes. No. 1,430,445; Sept. 26.
Oven-wall structure. P. Plantings. No. 1,430,027; Sept. 26.
Pail holder. E. T. Abendroth. No. 1,429,917; Sept. 26.
Paint and making same, Insulating and anticorrosive. C. Appleton and F. McRea. No. 1,430,142; Sept. 26.
Paper boxes, Machine for making. C. Horton. No. 1,430,232; Sept. 26.
Paper cleaner, Wall-. G. J. Forcier. No. 1,430,225; Sept. 26.
Paper, Method of and apparatus for waxing. W. L. Carter. No. 1,429,928; Sept. 26.
Pencil. J. H. Waring. No. 1,430,204; Sept. 26.
Pencil holder. A. D. Peralta. No. 1,430,401; Sept. 26.
Permutation lock. J. Roszmann. No. 1,429,970; Sept. 26.
Permutation lock. J. C. Sheller. No. 1,430,195; Sept. 26.
Phenols and the like, Manufacture of. R. Pocius. No. 1,430,184; Sept. 26.
Phonographs and making same, Sound amplifier for. C. J. Dodge. No. 1,429,937; Sept. 26.
Phonographs and telephones, Interference tube for. M. E. Wolvekamp. No. 1,429,993; Sept. 26.
Photography, Color. H. C. Decks. Nos. 1,430,059–61; Sept. 26.
Pianos, Automatic mechanism for player. W. B. Tunstall. No. 1,430,340; Sept. 26.
Picking tables, Belt control for. A. R. Stephen. No. 1,430,037; Sept. 26.
Pickling apparatus. W. J. Stoop. No. 1,430,039; Sept. 26.
Pile. J. P. Nordstrom. No. 1,429,964; Sept. 26.
Pipes or tubes, Bending. L. H. Brinkman. No. 1,429,924; Sept. 26.
Pistol-holding device. A. R. Holler. No. 1,430,081; Sept. 26.
Piston of a motor, Equilibrated device for transforming into circular motion the linear motion of the. J. Leroy. No. 1,430,514; Sept. 26.
Pitchfork, Removable-tine. H. C. Funk. No. 1,430,369; Sept. 26.
Pivotal spring seat. O. C. Spanenberg. No. 1,429,979; Sept. 26.
Plastic material, Process and apparatus for applying and shaping. C. S. Dolley. No. 1,430,363; Sept. 26.
Plastic product. W. O. Snelling. No. 1,430,036; Sept. 26.
Plowstock. W. S. Hiett. No. 1,430,504; Sept. 26.
Pocket, Garment. J. Aronoff. No. 1,429,996 Sept. 26.
Pole mounting. R. G. Williams. No. 1,430,136; Sept. 26.
Polishing holder. C. J. Diesel and W. C. Jackson. No. 1,430,063; Sept. 26.
Power generator, Circular type of. A. E. Reed. No. 1,429,971; Sept. 26.
Press: *See*—
Ceramic press.
Pressure controller or instrument. E. F. Mills. No. 1,430,098; Sept. 26.
Pressure gauge. A. S. Merchus. No. 1,430,174; Sept. 26.
Pressure gauge. E. F. Mills. No. 1,430,097; Sept. 26.
Pressure rolls, Stripping means for. H. Hinckley. No. 1,430,166; Sept. 26.
Printing plates, Producing. E. Albert. No. 1,430,347; Sept. 26.
Printing presses or the like, Lost-motion take-up for. H. C. Alger. No. 1,430,274; Sept. 26.
Printing presses, Sheet-feeding mechanism for. A. B. Evans and R. P. Payne. No. 1,430,223; Sept. 26.
Pump-rod counterbalance. J. H. Peck. No. 1,430,467; Sept. 26.
Pumps, Bucket for deep-well. A. A. Barton. No. 1,430,145; Sept. 26.
Pumps, Sand trap for oil-well. S. W. Bateman. No. 1,430,146; Sept. 26.
Pumping mechanism. J. F. Thomas. No. 1,430,416; Sept. 26.
Pyroxylin composition and making same. W. G. Lindsay. No. 1,430,020; Sept. 26.
Radiator tanks, Alarm mechanism for. L. C. Gobetz. No. 1,430,073; Sept. 26.
Rail bond. C. A. Parker. No. 1,430,110; Sept. 26.
Rail-joint. M. Carapina and F. Nevistich. No. 1,430,055; Sept. 26.
Rail joint C. A. Disbrow. No. 1,429,935; Sept. 26.
Rail joint, Fabricated. C. A. Disbrow. No. 1,429,936; Sept. 26.
Rail spike and screw. F. Radelet and E. Bonnet. No. 1,430,259; Sept. 26.
Railway accident insurance, Device for providing. G. E. Dickson. (Reissue.) No. 15,459; Sept. 26.
Railway, Amusement. E. F. von Tautphoeus. No. 1,430,203; Sept. 26.
Railway rails, Anticreeper for. J. H. Larmonth. No. 1,430,240; Sept. 26.
Railway switch and signal mechanism. J. P. Skartchsearis. No. 1,430,411; Sept. 26.
Railway-track crossing. D. O'Hern. No. 1,430,178; Sept. 26.
Rake: *See*—
Lawn rake.
Range boilers and like containers, End closure for. W. M. Bell. No. 1,430,000; Sept. 26.
Range finder and like instruments, Indirect-vision. A. and H. D. Taylor and P. W. Gray. No. 1,429,981; Sept. 26.
Receptacle closure. C. R. Keeran. No. 1,430,169; Sept. 26.
Refrigerating apparatus. L. G. Copeman. Nos. 1,430,153–4; Sept. 26.
Refrigeration apparatus. E. R. Sage. No. 1,430,263; Sept. 26.
Regulator. W. P. Powers. No. 1,430,113; Sept. 26.
Resilient wheel. J. L. Stoltz. No. 1,430,474; Sept. 26.
Retort and gas-generator apparatus, Combined vertical. G. P. Lewis. No. 1,430,453; Sept. 26.
Rewinding machine, Spring-. D. Ruff. No. 1,430,326; Sept. 26.
Rheostat, Compressible. A. W. Donop. No. 1,430,007; Sept. 26.
Rim tool. E. P. Coffey. No. 1,430,058; Sept. 26.
Rock-cutting machine. J. W. Cook. No. 1,430,493; Sept. 26.
Rods or tubes, Device for bending metal. J. N. Reynolds. No. 1,430,323; Sept. 26.
Roof-edging device. F. W. Hennessy. No. 1,430,446; Sept. 26.
Rope machine. J. M. Cattoor. No. 1,430,519; Sept. 26.
Rope-thrusting shovel. W. Ferris and S. R. W. M. Bager. No. 1,430,297; Sept. 26.
Safety device. S. Shold. No. 1,430,410; Sept. 26.
Safety switch. F. T. Kovar and J. F. Jirka. No. 1,430,087; Sept. 26.
Sanding machine. J. Galbraith. No. 1,430,370; Sept. 26.
Sardine-turning apparatus. F. Heath. No. 1,430,011; Sept. 26.
Sash balance. W. E. Wread. No. 1,430,138; Sept. 26.
Scraper. L. P. Green. No. 1,430,075; Sept. 26.
Screen: *See*—
Headlight screen.
Seat: *See*—
Pivotal spring seat.
Seat and table, Combined. A. W. Eichman. No. 1,429,939; Sept. 26.
Settling tank. W. H. Pavitt, jr. No. 1,430,181; Sept. 26.
Sewers and drainage, Sectional clay block structure for. F. H. Meier. No. 1,430,094; Sept. 26.
Sewing-machine attachment. A. H. De Voe. No. 1,429,933; Sept. 26.
Sewing-machine attachment. F. Heindrich and J. Gluck. No. 1,430,165; Sept. 26.
Sewing machine, Button-. W. L. Barron. No. 1,429,919; Sept. 26.
Sewing machines, Stop motion for. C. J. Franklin. No. 1,430,498; Sept. 26.
Shaft coupling. E. D. Tubbs. No. 1,429,982; Sept. 26.
Shampoo device. J. G. Jones and O. W. Rose. No. 1,429,950; Sept. 26.
Sharpener, Knife. G. C. Vollmer. No. 1,429,984; Sept. 26.
Sharpening material. V. W. Brooks. No. 1,430,052; Sept. 26.
Sheet body, Composite-. G. S. Finney. No. 1,430,365; Sept. 26.
Sheet-metal plating or coating machine. N. Camelo. No. 1,430,054; Sept. 26.
Shingles to roofs, Means for securing. J. A. Topping. No. 1,430,338; Sept. 26.
Shipping case. H. R. Bliss. No. 1,430,149; Sept. 26.
Shipping cases, Constructing fiber. H. R. Bliss. No. 1,430,151; Sept. 26.
Shipping cases, Sealing fiber. H. R. Bliss. No. 1,430,148; Sept. 26.
Shipping container. C. H. Crowell. No. 1,430,288; Sept. 26.

Ship's davit. D. Vanderwal. No. 1,430,516; Sept. 26.
Shoe-polishing machine. M. Belville. No. 1,430,480; Sept. 26.
Shoes on lasts, Machine for mounting. C. O. Normandy. No. 1,430,025; Sept. 26.
Shoes, Method of making turn. M. L. Dodge. No. 1,430,157; Sept. 26.
Shoes, Shank piece for. B. Ross. No. 1,430,190; Sept. 26.
Shovel, Rope-thrusting. W. Ferris and S. R. W. M. Bager. No. 1,430,298; Sept. 26.
Sickle. G. L. Rogers. No. 1,430,470; Sept. 26.
Sifter, Wet-sand. H. Griffoul. No. 1,430,443; Sept. 26.
Sign, Automatic display. E. H. McGee. No. 1,430,394; Sept. 26.
Sign or advertisement, Illuminated. W. J. Beville. No. 1,430,147; Sept. 26.
Signal machine. G. B. Brewer. No. 1,430,489; Sept. 26.
Signaling apparatus. A. I. Woodring. No. 1,430,273; Sept. 26.
Sizing, Beater. H. M. Wheelwright. No. 1,430,045; Sept. 26.
Skiving machine. H. R. Haggett. No. 1,430,077; Sept. 26.
Skylight. S. J. Olshin. No. 1,429,968; Sept. 26.
Skylight or ventilated roof. S. J. Olshin. No. 1,429,967; Sept. 26.
Sleigh brake. J. A. Abramchuk. No. 1,429,995; Sept. 26.
Sludge, Dehydrating activated. C. L. Peck. No. 1,430,182; Sept. 26.
Smoke from foundry chimneys, Apparatus for cleaning and collecting. A. Rodriguez. No. 1,430,116; Sept. 26.
Snubbing machine. H. C. Currier. No. 1,429,930; Sept. 26.
Soap. J. R. Milson. No. 1,430,099; Sept. 26.
Sound reproducer. M. S. Rankin. No. 1,430,185; Sept. 26.
Space-band mechanism. F. W. Letsch. No. 1,430,018; Sept. 26.
Spark arrester. W. L. Tarvin. No. 1,430,475; Sept. 26.
Spark plug. T. T. Bathurst. No. 1,430,429; Sept. 26.
Spatulating device. C. F. Franzwa. No. 1,430,070; Sept. 26.
Spotlight. R. E. Williams. No. 1,430,134; Sept. 26.
Spraying attachment. O. J. Arness. No. 1,430,348; Sept. 26.
Spreader. F. M. Kinnard. No. 1,430,309; Sept. 26.
Spring: *See*—
Cushion spring.
Furniture spring.
Spring suspension, Dual. S. J. Coughran. No. 1,430,495; Sept. 26.
Spring wheel. H. Griffoul. No. 1,430,444; Sept. 26.
Spring wheel. E. B. Sosa. No. 1,430,414; Sept. 26.
Springs, Lubricating attachment for. D. L. Lawson. No. 1,430,171; Sept. 26.
Stabilizer. W. F. Hensel. No. 1,430,374; Sept. 26.
Stamp, Time. M. Sheras. No. 1,430,031; Sept. 26.
Stamping device, Rotary. A. Hauser and M. T. Lothrop No. 1,429,944; Sept. 26.
Stapling machine. H. G. Allen. No. 1,430,048; Sept. 26.
Stay bolt, Articulated. A. F. Pitkin. No. 1,430,321; Sept. 26.
Steam table for food. A. M. Demuth. No. 1,430,006; Sept. 26.
Steering gear. J. A. House. No. 1,430,448; Sept. 26.
Steering-gear antirattler. E. L. Sloan. No. 1,430,122; Sept. 26.
Sterilizer. A. J. Walter. No. 1,430,421; Sept. 26.
Sterilizing and drying apparatus, Can. T. L. Valerius. No. 1,430,201; Sept. 26.
Stoker of the underfeed type, Automatic. M. Ratel. (Reissue.) No. 15,462; Sept. 26.
Stone press roll. J. W. Vedder. No. 1,430,418; Sept. 26.
Stopper: *See*—
Bottle stopper.
Store-front construction. V. Ross and E. S. Rhoads. No. 1,430,117; Sept. 26.
Stove, Cooking. L. B. Sullivan. No. 1,430,125; Sept. 26.
Stove, Oil. R. Hoffman. No. 1,430,375; Sept. 26.
Sugar juices by filtration and decantation, Purifying. F. Tiemann. No. 1,430,200; Sept. 26.
Support, Adjustable. C. A. Lindberg. No. 1,430,389; Sept. 26.
Surface-finishing implement. J. F. Krall. No. 1,430,387; Sept. 26.
Suspenders, Pair of. J. T. Watts. No. 1,430,422; Sept. 26.
Switch: *See*—
Automatic switch.
Safety switch.
Table: *See*—
Bed table.
Table leg, Pivoted folding. E. C. Palmer. No. 1,429,969; Sept. 26.
Tables, Retaining attachment for operating. L. L. Lux. No. 1,429,956; Sept. 26.
Talking machine. A. W. Rivett. No. 1,430,469; Sept. 26.
Talking machines, Replaying device for. R. B. Howard. No. 1,430,450; Sept. 26.
Tank: *See*—
Settling tank.
Tank-testing apparatus. F. A. Jacobs. No. 1,429,949; Sept. 26.
Tanning preparations. J. K. Tullis. No. 1,430,477; Sept. 26.
Tanning process. F. Wayland. No. 1,430,479; Sept. 26.
Telephone reproducer. F. Holmstrom, jr. No. 1,430,082; Sept. 26.
Telephone transmitter. E. S. Pridham. Nos. 1,430,257–8; Sept. 26.
Telephonically transmitting speech, Method of and apparatus for. E. S. Pridham and P. L. Jensen. No. 1,430,256; Sept. 26.
Temperature indicator. A. Roth and P. A. Ferguson. No. 1,429,975; Sept. 26.
Textile materials, Degumming. G. Jenny and O. Jaeck. No. 1,430,523; Sept. 26.
Therapeutic apparatus. W. Meyer. No. 1,430,095; Sept. 26.
Thrashers, Driving attachment for. C. M. Elliott. No. 1,430,440; Sept. 26.
Throttle and horn control apparatus. G. S. Heath. No. 1,430,229; Sept. 26.
Time indicator. C. M. Crook. No. 1,430,437; Sept. 26.
Tire. L. O. Mitchell. No. 1,430,100; Sept. 26.
Tire, Automobile. M. S. Corbett. No. 1,430,436; Sept. 26.
Tire holders, Locking attachment for spare-. W. Wilson and S. Price. No. 1,430,137; Sept. 26.
Tire lock for locomotive wheels. I. E. Corwin. No. 1,430,215; Sept. 26.
Tire, Pneumatic. J. G. A. Kitchen. No. 1,430,236; Sept. 26.
Tire pump. T. Namura. No. 1,430,250; Sept. 26.
Tires, Valve attachment for pneumatic. A. J. Michelin. No. 1,430,461; Sept. 26.
Toilet bowl. L. D. Tucker. No. 1,430,417; Sept. 26.
Toll lines, Signaling circuits for. J. Davidson, jr. No. 1,429,931; Sept. 26.
Tone arm, Convertible. A. R. Malone. No. 1,430,395; Sept. 26.
Tool. W. Engberg. No. 1,430,497; Sept. 26.
Tool. R. E. L. Smith. No. 1,429,977; Sept. 26.
Tool-retaining means. G. M. Nell. No. 1,430,102; Sept. 26.
Torch, Welding. C. H. Pusch. No. 1,430,020; Sept. 26.
Toy. A. H. De Voe. No. 1,430,062; Sept. 26.
Toy. H. R. Hayward. No. 1,430,503; Sept. 26.
Toys and other articles, Walking mechanism for. C. J. Harvey. No. 1,430,371; Sept. 26.
Track-switch-tripping mechanism. J. P. Skartchsearis. No. 1,430,412; Sept. 26.
Traction-increasing device. B. E. Denson. No. 1,430,291; Sept. 26.
Tractor. J. N. Parker. No. 1,430,251; Sept. 26.
Tractor plow implement. Z. Dominguez. No. 1,430,219; Sept. 26.
Tractors, Attachment for. T. C. Whitehead. No. 1,429,989; Sept. 26.
Transformer casing. L. A. Carter. No. 1,429,927; Sept. 26.
Transmission means. E. Eucken. No. 1,430,305; Sept. 26.
Transmission mechanism. L. E. Waterman, H. R. Traphagen, and H. L. Waterman. No. 1,429,986; Sept. 26.
Trap: *See*—
Game trap.
Trap nest. W. N. McLagan. No. 1,430,457; Sept. 26.
Tread. P. W. Dalrymple. (Reissue.) No. 15,458; Sept. 26.
Trolley, Crane. R. J. Harry and C. S. Proudfoot. No. 1,430,009; Sept. 26.
Trolley shoe. H. A. Rhoads. No. 1,430,188; Sept. 26.
Truck and workbench, Combined. F. D. Carre. No. 1,429,926; Sept. 26.
Truck, Dumping. R. D. Rogers. No. 1,429,974; Sept. 26.
Truck, Hand. E. Allen. No. 1,429,918; Sept. 26.
Trunk-riveting machine. T. M. House and H. R. McConnell. No. 1,430,447; Sept. 26.
Tubing bleeder. F. N. Crippen. No. 1,430,217; Sept. 26.
Turbine blading. C. A. Parsons, A. Q. Carnegie, M. Bone, and S. S. Cook. No. 1,430,398; Sept. 26.
Turbines, Manufacture of blading for. C. A. Parsons, A. Q. Carnegie, M. Bone, and S. S. Cook. No. 1,430,400; Sept. 26.
Typewriting machine. E. E. Barney. No. 1,430,208; Sept. 26.
Typewriting machine. P. H. Burdick. No. 1,430,284; Sept. 26.
Typewriting machine. G. W. Campbell. No. 1,430,356; Sept. 26.
Urea from ammonia and carbon dioxide, Manufacture of. N. W. Krase. No. 1,429,953; Sept. 26.
Valve. J. P. Cullison. No. 1,430,361; Sept. 26.
Valve, Automatic gas. W. Hanson. No. 1,430,502; Sept. 26.
Valve, Automatic gas-control. P. Benvissuto and L. Mombaruzzo. No. 1,430,351; Sept. 26.
Valve, Bleeding. L. A. Hornburg. No. 1,430,507; Sept. 26.
Valve cap. D. W. Mannhardt. No. 1,430,092; Sept. 26.
Valve-dressing tool. F. Windish. No. 1,430,345; Sept. 26.
Valve for regenerative furnaces, Reversing. C. V. McIntire. No. 1,430,172; Sept. 26.
Valve for steam engines, Governor. A. K. Hinchman. No. 1,430,505; Sept. 26.
Valve grinder. O. E. Brown. No. 1,430,285; Sept. 26.
Valve mechanism. C. H. Allen. No. 1,430,427; Sept. 26.
Valve mechanism, Combustion-engine. W. Harper, jr. No. 1,429,943; Sept. 26.
Valve, Temperature-regulating. A. E. Bossé and C. W. Ford. No. 1,429,923; Sept. 26.
Vegetable-cubing machine. L. R. Applegate. No. 1,430,049; Sept. 26.
Vegetable slicer. J. W. Dahmer. No. 1,430,289; Sept. 26.
Vehicle wheel. J. S. Jakubowski. No. 1,430,233; Sept. 26.
Vehicles, Direction signal for motor. P. Zamolynski. No. 1,429,994; Sept. 26.
Vehicles, Direction-signaling device for. C. Van Dyke. No. 1,430,126; Sept. 26.

Vehicles, Driving mechanism for. C. H. Young. No. 1,430,139; Sept. 26.
Vehicles, Spring-equalizer device for. H. Johnson. No. 1,430,381; Sept. 26.
Vending machine, Liquid-. J. Rinaldi. No. 1,430,189; Sept. 26.
Ventilating box bases, Making the connections for. C. C. Shipp. No. 1,430,120; Sept. 26.
Vise. E. Goodreau. No. 1,430,226; Sept. 26.
Vise. A. W. Rawling. No. 1,430,260; Sept. 26.
Walls, Footing for cellar. C. F. Welchold. No. 1,430,423; Sept. 26.
Washer: *See*—
Coal washer.
Washing machine. E. A. Enstice. No. 1,430,065; Sept. 26.
Washing machine. R. Rainalter. No. 1,430,322; Sept. 26.
Washing machines, Safety attachment for. H. F. Kuhns. No. 1,430,237; Sept. 26.
Washing, scrubbing, and drying machine. J. Lence. No. 1,430,090; Sept. 26.
Water and ozone, Pressure mixing device for raw. H. B. Hartman. No. 1,430,308; Sept. 26.
Water-bearing strata water-tight, Making fissured. A. François. No. 1,430,306; Sept. 26.
Water heater. N. Nilson. No. 1,430,466; Sept. 26.
Water-heating systems, Accelerating pump for. H. H. Angus. No. 1,430,141; Sept. 26.
Watch holder. A. Milne. No. 1,430,021; Sept. 26.
Wax, Chlorination of Montan. A. Deschauer. No. 1,429,932; Sept. 26.
Web feeding and cutting device. I. Lazaga. No. 1,430,089; Sept. 26.
Well-drilling bit. F. Gierse. No. 1,430,072; Sept. 26.
Well-drilling machine, Electromagnetic. F. R. Stoll. No. 1,430,473; Sept. 26.
Wheel: *See*—
Resilient wheel. Vehicle wheel.
Spring wheel.
Wheel block. W. W. Blakely. No. 1,429,921; Sept. 26.
Wheel clamp. B. D. Mitsareff. No. 1,430,177; Sept. 26.
Wheel-rim mechanism, Demountable-. A. Persson. No. 1,430,253; Sept. 26.
Wheel rim, Vehicle. R. S. Bryant. No. 1,430,213; Sept. 26.
Wind motor. C. Schulthes and B. Mora. No. 1,430,406; Sept. 26.
Winder. B. A. Peterson. No. 1,430,254; Sept. 26.
Window and metal weather strip therefor, Metal casement. F. P. Anderson. No. 1,429,915; Sept. 26.
Windshield visor. C. F. Hopewell. No. 1,430,231; Sept. 26.
Wire-stitching machine. H. R. Bliss. No. 1,430,150; Sept. 26.
Wire-stretching tool. J. W. Leslie. No. 1,430,388; Sept. 26.
Wire tie and seal making and applying tool. A. M. Bates. No. 1,429,920; Sept. 26.
Wood-bending machine. L. P. Malin. No. 1,430,244; Sept. 26.
Wrench heads, Making socket-. H. G. Carlson. No. 1,430,004; Sept. 26.
X-ray apparatus. W. Meyer. No. 1,430,096; Sept. 26.
Yoke, Neck. A. R. Friberg. No. 1,430,071; Sept. 26.
Zinc extraction. W. G. Waring. No. 1,430,269; Sept. 26.
Zinc-lead fume, Treatment of. W. G. Waring. No. 1,430,271; Sept. 26.

ALPHABETICAL LIST OF DESIGNS.

Candy. L. S. Michalski. No. 61,520; Sept. 26.
Costumer, Child's. M. A. York. No. 61,524; Sept. 26.
Lamp. H. H. Wolter. Nos. 61,526–7; Sept. 26.
Lens. F. Piaszek. Nos. 61,521–3; Sept. 26.
Lighting fixture. P. I. Ansorge. No. 61,515; Sept. 26.
Lighting-fixture arm. F. S. Crowell. No. 61,516; Sept. 26.
Pincushion. C. E. Willson. No. 61,525; Sept. 26.
Rubber heel. J. C. Krieg and F. Fishbaugh. No. 61,519; Sept. 26.
Sign, Illuminated. F. Zwick. No. 61,528; Sept. 26.
Stove, Heating. J. Festa. No. 61,518; Sept. 26.
Textile fabric. W. V. A. Evers. No. 61,517; Sept. 26.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Adhesive used in applying labels. Burt Machine Company. No. 159,610; Sept. 26.
Air lifts and liquid separators. Sullivan Machinery Company. No. 159,545; Sept. 26.
Alloy and castings made therefrom, Nonrusting and corrosion-resisting. Metal and Alloy Specialties Company. No. 159,436; Sept. 26.
Alloys and castings and forgings produced therefrom, Magnesium. Magna Metal Corporation. No. 159,428; Sept. 26.
Allspice, licorice, milk, tea, etc. San Antonio Drug Co. No. 159,504; Sept. 26.
Almonds, almond meats, paste, blanched, etc. California Almond Growers Exchange. Nos. 159,300–1; Sept. 26.
Antiseptic and germicidal solution. Langley & Michaels Co. No. 159,409; Sept. 26.
Arch supports. Saperston Manufacturing Co. No. 159,505; Sept. 26.
Automobile and furniture polish. L. G. Pilgrim. No. 159,476; Sept. 26.
Automobile service tools. Miller Tool & Mfg. Co. No. 159,441; Sept. 26.
Automotive parts. The Parts Service Company. No. 159,472; Sept. 26.
Babbitt, bearing, and antifriction metals and alloys. Magnolia Metal Company. No. 159,429; Sept. 26.
Bakery products. Sun Lite Bakeries System, Inc. No. 159,547; Sept. 26.
Bathroom fixtures and enameled ware, Certain. Whyt E Naml Specialty Co. No. 159,586; Sept. 26.
Bathroom fixtures of porcelain, Certain. S. D. Baker. No. 159,271; Sept. 26.
Bearings, pistons, piston, wrist, and fan-pulley pins, gears, etc. Kanouse & Foote. No. 159,393; Sept. 26.
Bearings, shafts, arbors, and bearing parts, Antifriction. A. E. Leon. No. 159,410; Sept. 26.
Beer and near beer. United States Brewing Company. No. 159,561; Sept. 26.
Belt dressing. Crescent Belt Fastener Company. No 159,614; Sept. 26.
Belt hooks. J. D. Sawyer. No. 159,506; Sept. 26.
Beverage sold as a soft drink and sirup therefor. E. Diehl. No. 159,616; Sept. 26.
Beverage sold as a soft drink and sirup therefor. H. Silverman. No. 159,642; Sept. 26.
Beverage sold as a soft drink and sirup therefor. Southern California Supply Co. No. 159,643; Sept. 26.
Beverages sold as soft drinks and sirups for making same. R. C. Dillmore. No. 159,617; Sept. 26.
Beverages sold as soft drinks and sirups used in preparation of same. Redondo Packing Corp. No. 159,639; Sept. 26.
Biscuit, wafers, soda crackers, fig bars, gingersnaps. Southwest Cracker Co. No. 159,644; Sept. 26.
Biscuits. National Biscuit Company. No. 159,452; Sept. 26.
Blank books, pads, ledger binders, stenographers' notebooks, etc. Guild Products Corporation. No. 159,364; Sept. 26.
Blotters, pencils, and memorandum pads. Brown & Bigelow. No. 159,292; Sept. 26.
Boilers, Range. Riverside Boiler Works, Inc. No. 159,640; Sept. 26.
Books, Blank account. F. A. Koenig. No. 159,404; Sept. 26.
Books, Blank account. W. D. Smith. No. 159,530; Sept. 26.
Books, Combined check and account. W. J. Palmer. No. 159,471; Sept. 26.
Books in a continuing series. McLoughlin Bros. Inc. No. 159,425; Sept. 26.
Books, Printed. C. N. Bourne. No. 159,287; Sept. 26.
Boxes, Strawboard. Standard Corrugated Box Co. No. 159,535; Sept. 26.
Brass pipe. Bridgeport Brass Company. No. 159,289; Sept. 26.
Bread. Hankey Baking Company. No. 159,367; Sept. 26.
Bread. Uffelmann Baking Company. No. 159,648; Sept. 26.
Bread. Ward Baking Company. Nos. 159,576–8; Sept. 26.
Bread, Rye. M. H. Wildstein. No. 159,587; Sept. 26.
Bread, Wheat. Capsheaf Bread Co. No. 159,305; Sept. 26.
Brushes. Wooster Brush Company. Nos. 159,596–7; Sept. 26.
Brushes, Artists'. M. Grumbacher. No. 159,363; Sept. 26.
Brushes, Hair, clothes, and shoe. Black Bros. No. 159,330; Sept. 26.
Brushes, Shaving. Wontshed Brush Co. No. 159,593; Sept. 26.
Bulletin or news sheet of the prices of metals, Daily. Bigelow, Bowditch & Company. No. 159,280; Sept. 26.
Butter. Great Atlantic and Pacific Tea Company. No. 159,362; Sept. 26.
Butter, Creamery. Emil Fleischl & Son. No. 159,352; Sept. 26.
Cake. Campbell Baking Company. No. 159,303; Sept. 26.
Cake, pastry, biscuits, etc. General Baking Company. No. 159,357; Sept. 26.
Cakes and doughnuts, Fried. National Cream Fried Cake Corporation. No. 159,453; Sept. 26.
Cakes, bread, and pastry. Riverside Baking Company. No. 159,641; Sept. 26.
Calendars. Defiance Manufacturing Company. No. 159,326; Sept. 26.
Cameras, Cinema. Sept Cinema Camera Distributors, Inc. No. 159,514; Sept. 26.
Can opener. R. F. Stevenson. No. 159,544; Sept. 26.
Candies. Loft, Incorporated. No. 159,418; Sept. 26.
Candies. Wallace & Co. No. 159,573; Sept. 26.
Candy. Bunte Brothers. No. 159,296; Sept. 26.
Candy. C. F. Erb & Son. No. 159,349; Sept. 26.
Candy. Page & Shaw. No. 159,470; Sept. 26.
Candy. Sweet Candy Co. No. 159,549; Sept. 26.
Candy. Val. Blatz Jr. Candy Co. No. 159,283; Sept. 26.
Candy and tablets, Mint. Cremint Co. No. 159,319; Sept. 26.
Canned crab meat, fish, vegetables, fruit, and pickles. S. Tautsumi. No. 159,555; Sept. 26.
Canned fruits and vegetables. F. B. Neuhoff. Nos. 159,457–8; Sept. 26.
Canned fruits and vegetables, nuts, honey, jelly, etc. Betty Jeane Incorporated. No. 159,279; Sept. 26.
Canned fruits, berries, and vegetables. H. A. Baker, Inc. No. 159,270; Sept. 26.
Canned salmon. Seaboard Commercial Company. No. 159,511; Sept. 26.
Canned vegetables. Ephraim Sanitary Canning Company. No. 159,619; Sept. 26.
Canned vegetables and fruits. Filice & Perrelli Canning Co. No. 159,351; Sept. 26.
Canned white tuna fish. Westgate Sea Products Co. No. 159,583; Sept. 26.
Carbon black. G. W. De Smet. No. 159,328; Sept. 26.
Carburetors. U. S. Carburetor Co. No. 159,562; Sept. 26.
Cars, Children's coaster. Woodstock Manufacturing Co. No. 159,594; Sept. 26.
Cars, Children's three-wheel propelling. E. S. Rogers. No. 159,498; Sept. 26.
Cartoon serials. Sun-Herald Corporation. No. 159,546; Sept. 26.
Cases and bags for holding fishing material. Knickerbocker Case Company. No. 159,403; Sept. 26.
Castings, Metal. Doehler Die-Casting Company. Nos. 159,334–5; Sept. 26.
Castings, Metal. International Permold Company. No. 159,386; Sept. 26.
Castings, Nonferrous metal. Frontier Bronze Corporation. No. 159,354; Sept. 26.
Catalogue, Monthly. Jaburg-Miller Co. No. 159,390; Sept. 26.
Cement such as is used in the manufacture and repairing of boots and shoes. United Shoe Machinery Corporation. No. 159,564; Sept. 26.
Cereals, Breakfast. Midland Cereal Products Co. No. 159,630; Sept. 26.
Chains and tire-grip chains. United States Chain & Forging Co. No. 159,563; Sept. 26.
Cheeses, spaghetti, broths, soups, etc. A. Silz, Inc. No. 159,523; Sept. 26.
Chemical preparation. National Marking Machine Company, No. 159,455; Sept. 26.
Chemicals and pharmaceuticals. T. Fujisawa & Company. No. 159,350; Sept. 26.
Cleaning closet bowls, Powder for. United Stores Supply Company. No. 159,565; Sept. 26.
Cleaning compound, Certain. Mission Bead Company. No. 159,443; Sept. 26.
Cleaning, shining, and polishing preparation for shoes and leather articles. E. L. Eggers. No. 159,346; Sept. 26.
Cleanser for cleaning clothes, silverware, dishes, cooking utensils, woodwork, etc. Hays-Raden Company. No. 159,370; Sept. 26.
Coconut butter. L. Demartini Supply Co. No. 159,327; Sept. 26.
Coffee. Hewlett Bros. Company. No. 159,376; Sept. 26.
Coffee. Nash Coffee Company. No. 159,451; Sept. 26.
Compound for treating catarrh, asthma, and colds. C. G. Taylor. No. 159,551; Sept. 26.
Confections—namely, candy. Sykes & Thompson Co. No. 159,550; Sept. 26.
Cookies, crackers, cakes, and biscuit. G. H. Bent Company. No. 159,275; Sept. 26.
Cooking and household articles of enameled steel. Columbian Enameling & Stamping Co. No. 159,317; Sept. 26.
Cooking and household utensils of aluminum, Certain. Eastern Aluminum Company. No. 159,343; Sept. 26.
Cooking and household utensils of aluminum, Certain. Superior Manufacturing Co. No. 159,548; Sept. 26.
Coolers and freezers. Perfection Cooler Co. No. 159,637; Sept. 26.
Cordage, including cables, ropes, and twine, Hard fiber. Plymouth Cordage Company. No. 159,480; Sept. 26.
Corn grits and flakes, barley, and malt. Klatscher & Lorenz, Inc. No. 159,400; Sept. 26.

Corn-meal. City Mills Company. No. 159,313; Sept. 26.
Cotton piece goods. Passaic Print Works. No. 159,635; Sept. 26.
Crayons, Wax and chalk. Standard Crayon Manufacturing Co. Nos. 159,536–41; Sept. 26.
Crushers and like machines. Williams Patent Crusher & Pulverizer Co. Nos. 159,589–90; Sept. 26.
Curtain holders. M. J. Smith. No. 159,529; Sept. 26.
Cutlery. J. A. Henckels. No. 159,372; Sept. 26.
Cutlery and tools. Collins Company. No. 159,315; Sept. 26.
Detergent preparations. Kendall Products Corporation. No. 159,396; Sept. 26.
Dispensers, measuring pumps, and meters. S. F. Bowser & Company. No. 159,288; Sept. 26.
Display fixtures and parts thereof, Show-window. Herbert Ryder Co. No. 159,502; Sept. 26.
Dolls. J. A. Hayes. No. 159,369; Sept. 26.
Dolls. Wolf Doll Co. No. 159,592; Sept. 26.
Doughnuts. National Cream Fried Cake Corporation. No. 159,631; Sept. 26.
Drawings and the like, Apparatus for copying. Dreyer & Butz. No. 159,337; Sept. 26.
Drill bits, reamers, oil-well fishing tools, etc., Rotary. Reed Roller Bit Co. No. 159,491; Sept. 26.
Drink, Malt soft. S. Liebmanns Sons. No. 159,414; Sept. 26.
Drinks and sirups for making same, Maltless soft. K. Antonsen. No. 159,258; Sept. 26.
Drying apparatus for manufacturing and industrial operations, Air-current. Andrews & Goodrich, Inc. No. 159,257; Sept. 26.
Eggs. A. T. Thibodeau Company. No. 159,553; Sept. 26.
Eggs, live and dressed poultry. Whitney Poultry Farm, Inc. No. 159,649; Sept. 26.
Electric-appliance time controller. Sterolectric Company. No. 159,543; Sept. 26.
Engines, Fuel for internal-combustion. Pennsylvania Synthetic Gas & Chemical Company. No. 159,636; Sept. 26.
Eyeglasses. E. B. Meyrowitz, Inc. No. 159,438; Sept. 26.
Feed, Horse and dairy, etc. H. Fruechtenicht. No. 159,355; Sept. 26.
Feed, Poultry. Brooks Company. No. 159,290; Sept. 26.
Feed, Poultry. Buckeye Cotton Oil Company. No. 159,293; Sept. 26.
Feed, Stock and poultry. Aviston Flour Company. No. 159,267; Sept. 26.
Feed, Stock and poultry. Humphreys-Godwin Company. No. 159,381; Sept. 26.
Feeds and poultry mash. Thomas-Boyce Direct Feed Company. No. 159,554; Sept. 26.
Feeds, breakfast cereals and flours, stock and poultry. Portland Flouring Mills Co. No. 159,479; Sept. 26.
Feeds, Mixed. Memphis Cotton Hull & Fibre Co. No. 159,435; Sept. 26.
Feed, Poultry. St. Albans Grain Company. No. 159,534; Sept. 26.
Feeds, Stock and poultry. J. J. Schreiber. No. 159,509; Sept. 26.
Filters. C. S. Smith. No. 159,526; Sept. 26.
Filters, Antisplash water. Seed Filter & Manufacturing Co. No. 159,513; Sept. 26.
Fishing lines, Braided enameled Japan-silk. Cortland Line Co. No. 159,613; Sept. 26.
Fishing spoons. Geneva Tackle Co. No. 159,358; Sept. 26.
Flour and feeds, Rye. Ladish Milling Co. No. 159,406; Sept. 26.
Flour, Self-rising. Dulle-Meyer Milling Company. No. 159,338; Sept. 26.
Flour, Self-rising. Hadley Milling Company. No. 159,365; Sept. 26.
Flour, Wheat. American Finance & Commerce Company. No. 159,251; Sept. 26.
Flour, Wheat. American Hominy Company. No. 159,252; Sept. 26.
Flour, Wheat. Bernet, Craft & Kauffman Milling Co. No. 159,277; Sept. 26.
Flour, Wheat. Colonial Export & Import Company. No. 159,316; Sept. 26.
Flour, Wheat. El Reno Mill & Elevator Co. No. 159,350; Sept. 26.
Flour, Wheat. Kansas City Milling Co. No. 159,394; Sept. 26.
Flour, Wheat. Mauser Mill Company. No. 159,433; Sept. 26.
Flour, Wheat. Nebraska Consolidated Mills Co. No. 159,456; Sept. 26.
Flour, Wheat. Oklahoma City Mill and Elev. Co. No. 159,465; Sept. 26.
Flour, Wheat. Piedmont Mills, Inc. No. 159,474; Sept. 26.
Flour, Wheat. Pillsbury Flour Mills Company. No. 159,638; Sept. 26.
Flour, Wheat. The Red Star Milling Company. Nos. 159,489–90; Sept. 26.
Flour, Wheat. Saxony Mills. No. 159,507; Sept. 26.
Flour, Wheat. Southwestern Milling Company. No. 159,531; Sept. 26.
Flour, Wheat. Sperry Flour Company. No. 159,532; Sept. 26.
Flour, Wheat. Vollmer Clearwater Company. No. 159,569; Sept. 26.
Flour, Wheat. J. S. Waterman & Co. No. 159,580; Sept. 26.
Flours, corn meal, corn flakes, rolled oats, etc. Jersey Cereal Food Company. No. 159,626; Sept. 26.
Food products, Certain. Bake-Rite Oven Mfg. Co. No. 159,269; Sept. 26.
Food products, Certain. B. Cerf. No. 159,324; Sept. 26.
Foods, Cattle and stock. Geo. B. Matthews & Sons. No. 159,432; Sept. 26.
Fruits and vegetables, hay, corn, wheat, Fresh. E. W. Knapp. Nos. 159,401–2; Sept. 26.
Fruits, Fresh deciduous. White Bros. & Crum Co. No. 159,584; Sept. 26.
Fruits in their natural state, Citrus. M. F. Wilkins. No. 159,588; Sept. 26.
Gas filters. Uehling Instrument Company. No. 159,557; Sept. 26.
Gasket-sealing composition. Gum-Ze Manufacturing Co. No. 159,622; Sept. 26.
Gasoline. Associated Oil Company. No. 159,608; Sept. 26.
Gauges, Fluid. Mid West Glass Company. No. 159,439; Sept. 26.
Gauges, Liquid-indicating. Berge-Rathbun Co. No. 159,276; Sept. 26.
Glass. Corning Glass Works. No. 159,318; Sept. 26.
Glass paper weights. Buffalo Optical Company. No. 159,294; Sept. 26.
Glue, Millinery. C. T. Smith. No. 159,528; Sept. 26.
Goblets, tumblers, cups, dishes, etc. H. Witte. No. 159,650; Sept. 26.
Gongs, Carriage. Muller and Phipps (Asia) Limited. No. 159,449; Sept. 26.
Gum, Sugar-coated chewing. Wm. Wrigley, Jr. Company. Nos. 159,598–9; Sept. 26.
Hams, bacons, butter, eggs, and sausage. Becker Provision Co. No. 159,274; Sept. 26.
Heaters, lanterns, stoves, etc. John Dunn, Son & Co. No. 159,339; Sept. 26.
Horses on wheels for children. A. A. Magee. No. 159,450; Sept. 26.
Household appliances. National Home Appliance Corporation. No. 159,454; Sept. 26.
Iron and steel used for lining plates for ball and pebble mills. Hardinge Company. No. 159,368; Sept. 26.
Jams, jellies, and orange marmalade. Oest Fruit Co. No. 159,632; Sept. 26.
Jellies, fruit preserves, apple butter, and and flavoring extracts. Blanke-Baer Extract & Preserving Company. No. 159,282; Sept. 26.
Key cases. Security Key Case Mfg. Co. No. 159,512; Sept. 26.
Kitchen utensils and flatware, Aluminum. Rainbow Import & Export Corporation. No. 159,487; Sept. 26.
Kola, coffee, and chicory, Extract of. John Mackay & Co. No. 159,426; Sept. 26.
Lacquer, Millinery. C. T. Smith. No. 159,527; Sept. 26.
Lead pencils, Mechanically-operated. M. S. Rodenberg Co. No. 159,497; Sept. 26.
Leads for use in mechanical pencils. Wahl Company. No. 159,571; Sept. 26.
Lenses, Ophthalmic. Bausch & Lomb Optical Co. No. 159,273; Sept. 26.
Letter folders, Advertising. Advertiser's Art Studios. No. 159,249; Sept. 26.
Locks and keys. Independent Lock & Key Manufacturing Co. Inc. No. 159,382; Sept. 26.
Locks, night latches, and padlocks. Eagle Lock Co. No. 159,342; Sept. 26.
Lubricant, Scientific knitting-machine. W. H. & F. Jordan, Jr. Mfg. Co. No. 159,391; Sept. 26.
Machines and parts of machinery, Certain. Lunkenheimer Company. No. 159,422; Sept. 26.
Mailing wrappers. International Mailing Tube & Wrapper Co. No. 159,385; Sept. 26.
Malt extracts, Concentrated liquid. Malt-Diastase Company. No. 159,430; Sept. 26.
Marmalade, plum pudding, dairy products, meats, etc. John Morrell & Company. No. 159,445; Sept. 26.
Mash, starting and growing foods, hatching eggs, and baby chickens, Laying. A. E. Kerlin. No. 159,397; Sept. 26.
Meal, Cottonseed. Ashcraft-Wilkinson Company. No. 159,261; Sept. 26.
Measuring weight or pull, Machine for. Little Giant Company. No. 159,417; Sept. 26.
Meat, hash, soup, bouilli, bread, vegetables, Boston Food Products Co. No. 159,284; Sept. 26.
Meats, meat products, and other foods. Morris & Company. No. 159,446; Sept. 26.
Meats, scrapple, chile con carne, pig souse, mincemeat, Yellowstone Packing Company. No. 159,601; Sept. 26.
Medicinal and pharmaceutical preparations, Certain. H. Crooks. No. 159,322; Sept. 26.
Medicinal, chemical, and pharmaceutical preparations, Certain. D. Quateman. No. 159,485; Sept. 26.
Medicinal preparation. Eli Lilly & Company. No. 159,348; Sept. 26.
Medicinal preparation. Ultra Refined Crude Products Co. No. 159,558; Sept. 26.
Medicines for certain purposes. G. J. McCabe. No. 159,423; Sept. 26.
Metal ware and metal culinary utensils. Reliance Metal Spinning & Stamping Co. No. 159,492; Sept. 26.
Metals and alloys, Ferrous and nonferrous. Electro Metallurgical Company. No. 159,347; Sept. 26.
Meters for automatically recording the length of telephone conversations. Telechronometer Company of America. No. 159,552; Sept. 26.

Milk, butter, ice cream, etc., Sweet, powdered, and condensed. Nissley Creamery Company. No. 159,462; Sept. 26.
Milk products consisting of skimmed milk and vegetable fat. Indiana Condensed Milk Company. No. 159,383; Sept. 26.
Milk, Sour. Dr. Spieker's Bulgarian Yoghurt Corporation. No. 159,533; Sept. 26.
Milk, Unsweetened evaporated. Crescent Company. No. 159,320; Sept. 26.
Motors and carburetors. Camden Anchor-Rockland Machine Co. No. 159,302; Sept. 26.
Mottoes, Snapping. B. Shackman & Co. Nos. 159,515–16; Sept. 26.
Newspaper column, Title of a. New York Tribune, Inc. No. 159,460; Sept. 26.
Nozzles, Hose. Schlangen Bros. Co. No. 159,508; Sept. 26.
Oil and other liquids, Storage receptacles for. St. Louis Pump & Equipment Company. No. 159,645; Sept. 26.
Oil gauges. Carter Motor Accessories, Inc. No. 159,307; Sept. 26.
Oil, Olive. G. J. Bulubassis. No. 159,295; Sept. 26.
Oil, Olive. E. Di Bianco. No. 159,331; Sept. 26.
Oil, tomato sauce, and macaroni, Olive. Italian Supply Co. No. 159,389; Sept. 26.
Oils, Lubricating. Ayotte Manufacturing Co. No. 159,604; Sept. 26.
Oils, Lubricating. Crescent Oil Company. No. 159,323; Sept. 26.
Oils, Lubricating. Nott-Atwater Co. No. 159,464; Sept. 26.
Oils, Lubricating. Wadhams Oil Company. No. 159,570; Sept. 26.
Oils, Lubricating. F. L. Wilson. No. 159,591; Sept. 26.
Oleomargarine. W. J. Haeberlein. No. 159,374; Sept. 26.
Oleomargarine. Hammond Standish & Co. No. 159,366; Sept. 26.
Paint, Oil. William Zinser & Company. No. 159,602; Sept. 26.
Paint, Roof. A. J. Linehan. No. 159,629; Sept. 26.
Paints. Goheen Corporation. No. 159,360; Sept. 26.
Paints and dry powders for making paints. Asbestomine Company. No. 159,260; Sept. 26.
Paints, varnishes, and coatings. William T. Baker, Inc. No. 159,605; Sept. 26.
Paints, varnishes, and floor filler, Ready-mixed. Lion Varnish Company. No. 159,415; Sept. 26.
Pans and broom holders, Frying. Miller Lock Company. No. 159,440; Sept. 26.
Paper and envelopes, Writing. Given Paper Company. No. 159,621; Sept. 26.
Paper and ledger, Writing. Fox River Paper Company. No. 159,353; Sept. 26.
Paper, Bleached and unbleached sulphite. W. A. Armstrong. No. 159,259; Sept. 26.
Paper cleaner, Wall-. Absorene Manufacturing Company. No. 159,246; Sept. 26.
Paper, Cover. Marvellum Company. No. 159,431; Sept. 26.
Paper, envelopes, tablets, and blank books. J. C. Blair Company. No. 159,281; Sept. 26.
Paper-fastening machines, Automatic. Alex H. Irvin Company. No. 159,388; Sept. 26.
Paper from which patterns are made. Charles F. Hubbs & Co. No. 159,379; Sept. 26.
Paper, Glassine. Warren Manufacturing Company. No. 159,579; Sept. 26.
Paper, Gummed. Central Paper Company. No. 159,309; Sept. 26.
Paper, Handmade. C. H. Boulin. No. 159,304; Sept. 26.
Paper mainly used for carbonizing purposes, Tissue. Rose & Frank Co. Nos. 159,499–50; Sept. 26.
Paper matrices. J. O'Flaherty. Nos. 159,633–4; Sept. 26.
Paper plates. Alfred Bleyer & Co. No. 159,608; Sept. 26.
Paper products. Brown Company. No. 159,291; Sept. 26.
Paper, Surface and metal coated, roll-printed, and embossed. Walther & Company. No. 159,574; Sept. 26.
Paper tablets, papeteries, typewriter tablets, etc., Writing. White & Wyckoff Manufacturing Company. No. 159,586; Sept. 26.
Paper towels. West Disinfecting Company. No. 159,581; Sept. 26.
Paper, Tracing. G. Vincent. No. 159,568; Sept. 26.
Paper, Wrapping, bond, and cover. Arthur R. Rapp Company. No. 159,488; Sept. 26.
Paper, Writing. Byron Weston Company. No. 159,298; Sept. 26.
Paper, writing pads, notebooks, erasers, etc., Legal and letter. J. Meyers Stationery & Printing Co. No. 159,437; Sept. 26.
Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 159,411; Sept. 26.
Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 159,628; Sept. 26.
Papers, Writing and printing. American Writing Paper Company. Nos. 159,255–6; Sept. 26.
Papers, Writing and printing. Charles F. Hubbs & Co. No. 159,380; Sept. 26.
Pencils. W. H. Ingersoll. No. 159,384; Sept. 26.
Pencils. Listo Pencil Corporation. No. 159,416; Sept. 26.
Pencils. F. W. Palomba. No. 159,473; Sept. 26.
Pens, stylographic pens, and pencils, Fountain. Eggen-Hambler Company. No. 159,345; Sept. 26.
Pens, Support for fountain. L. K. Desmond. No. 159,329; Sept. 26.
Perfumes, toilet waters, face and toilet powders, sachets, etc. Cheramy, Inc. No. 159,310; Sept. 26.
Periodical, Monthly. Dixon & Hilien. No. 159,332; Sept. 26.
Periodical, Monthly. Houston Publishing Company. No. 159,378; Sept. 26.
Pharmaceutical preparations. H. P. Clearwater. No. 159,314; Sept. 26.
Pictures, passepartouts, cards, and the like, Hook corners for hanging. R. C. Kirk. No. 159,399; Sept. 26.
Piston rings. Keys Piston Ring Company. No. 159,627; Sept. 26.
Plumbing supplies and bathroom trimmings and fittings, Certain. Thomas Maddock's Sons Company. No. 159,427; Sept. 26.
Pocketknives and parts thereof. Remington Arms Company. No. 159,493; Sept. 26.
Powders or fillers, Whipping. Joe Lowe Co. No. 159,419; Sept. 26.
Preparation for cleaning and removing dirt, grit, etc., from glass and other glazed surfaces. Skybryte Company. No. 159,525; Sept. 26.
Preparation for the treatment of pyorrhea. Pyo-Coda Laboratories. No. 159,484; Sept. 26.
Printed products—namely, journals, music, insignia, and letters. Drei Masken Verlag A.-G. No. 159,336; Sept. 26.
Publication, Monthly. James F. Newcomb & Co. No. 159,461; Sept. 26.
Publication, Weekly. Dearborn Publishing Company. No. 159,325; Sept. 26.
Publications, Weekly periodical. American Lumberman. No. 159,253; Sept. 26.
Pulleys or blocks. Boston & Lockport Block Company. Nos. 159,285–6; Sept. 26.
Pulleys, Stamped steel. Dodge Sales & Engineering Co. No. 159,333; Sept. 26.
Railway frogs, crossings, rail braces, and guard rails. Cincinnati Frog & Switch Co. No. 159,312; Sept. 26.
Razors, Safety. Gillette Safety Razor Company. No. 159,359; Sept. 26.
Reel mills. Atwood Machine Company. No. 159,265; Sept. 26.
Refrigerating apparatus. E. A. Burrows. No. 159,297; Sept. 26.
Registers, Hand-operated counting. C. A. Goodspeed. No. 159,361; Sept. 26.
Remedy for insomnia and restlessness, Preparation used as a. H. K. Mulford Company. No. 159,448; Sept. 26.
Repair kits for tubes. Taylor-Williams Co. No. 159,647; Sept. 26.
Rice. Associated Rice Millers of America, Inc. No. 159,263; Sept. 26.
Rockers, Children's. Woodstock Manufacturing Co. No. 159,595; Sept. 26.
Rogers, Urbane E., Company, The. Dallas, Tex. Vegetable-oil soap. No. 159,566; Sept. 26.
Ropes and cordage—namely, sisal and manila. Hooven & Allison Company. No. 159,377; Sept. 26.
Safes and locks. Victor Safe and Lock Company. No. 159,567; Sept. 26.
Salted wafers, soda crackers, etc. Pacific Coast Biscuit Company. No. 159,469; Sept. 26.
Sandwiches and pastry. B/G Sandwich Shops. No. 159,268; Sept. 26.
Sausage, Pork. Detroit Packing Co. No. 159,615; Sept. 26.
Sausage, Pork. Joseph Stern & Sons, Inc. No. 159,542; Sept. 26.
Scissors and shears. Acme Shear Company. No. 159,248; Sept. 26.
Sewing machines and attachments. New Home Sewing Machine Company. No. 159,459; Sept. 26.
Shade brackets, Window-. S. A. Maxwell & Co. No. 159,434; Sept. 26.
Shock absorbers for Ford cars. Robert H. Hassler, Inc. No. 159,624; Sept. 26.
Shock pneumatic tools and hand tools. A. O. J. Tool Company. No. 159,245; Sept. 26.
Shoe polish. J. H. T. Olsen. No. 159,466; Sept. 26.
Shoes, Appliance for obtaining casts for fitting. Morse & Burt Co. No. 159,447; Sept. 26.
Shoes, Wooden-heel fasteners for. Hercules Wood Heel Fastener Co. No. 159,375; Sept. 26.
Silk piece goods, Broad. Duplan Silk Corporation. Nos. 159,340–1; Sept. 26.
Sirup for food purposes, Malt. Premier Malt Products Co. of Ohio. Nos. 159,481–3; Sept. 26.
Sirup for food purposes, Malt-extract. Schreiber Products Corporation. No. 159,510; Sept. 26.
Sirup, Pure Georgia cane. Roddenbery Bros. No. 159,496; Sept. 26.
Sirup used as a food drink or food flavor, Fruit. H. H. Hay Sons. No. 159,625; Sept. 26.
Sleds, Hand. Sheffield Mfg. Co. No. 159,520; Sept. 26.
Soap. Remmers Soap Company. No. 159,494; Sept. 26.
Soap paste. Cedal Sawdust Cleanser Company. No. 159,308; Sept. 26.
Soap, Vegetable-oil. Urbane E. Rogers Company. No. 159,566; Sept. 26.
Soaps. Bamacea Company. No. 159,272; Sept. 26.
Soaps. Rieser Company. No. 159,495; Sept. 26.
Soaps. John Wanamaker, Philadelphia. No. 159,575; Sept. 26.
Soaps, Complexion and antiseptic. Madam C. J. Walker Manufacturing Company. No. 159,572; Sept. 26.

Soaps, Toilet. Crofts & Reed Co. No. 159,321; Sept. 26.
Soda fountains, carbonators, and soda-fountain machinery. Langley & Michaels Co. No. 159,408; Sept. 26.
Solder. F. E. Lampe. No. 159,407; Sept. 26.
Stair treads and floor plates. American Abrasive Metals Company. No. 159,250; Sept. 26.
Steam blowers. McClave-Brooks Co. No. 159,424; Sept. 26.
Steel, Alloy. Ludlum Steel Company. Nos. 159,420–1; Sept. 26.
Steel, alloy steel iron and steel bars, and sheet bars. United Alloy Steel Corporation. Nos. 159,559–60; Sept. 26.
Steel for use in the manufacture of die blocks, tool-steel forgings, etc. Heppenstall Forge and Knife Company. No. 159,373; Sept. 26.
Steel products, Certain. American Steel & Wire Company of New Jersey. No. 159,254; Sept. 26.
Straps, Metallic. I. R. Pierson. No. 159,475; Sept. 26.
Strawboard, box board, binders' board, etc. C. L. LaBoiteaux Company. No. 159,299; Sept. 26.
Sugar, teas, coffee, rice, cocoa, cornstarch. Ragus Sugar Company. No. 159,486; Sept. 26.
Switches and switch stands. Cincinnati Frog and Switch Co. No. 159,311; Sept. 26.
Tablets, composition books, student notebooks, etc., Writing. Osborn Paper Company. No. 159,468; Sept. 26.
Tablets, Laxative. Plax Company. No. 159,478; Sept. 26.
Tape, Sealing. Liberty Paper Co. No. 159,413; Sept. 26.
Telephone and telegraph lines, Certain articles of hardware and anchoring appliances for. Western Electric Company. No. 159,582; Sept. 26.
Textile fabrics. Irish Linen Society. No. 159,387; Sept. 26.
Tire valves, Dust cap for. Sabel & Balch. No. 159,503; Sept. 26.
Tires, Automobile rubber. Edison Tire & Rubber Co. No. 159,618; Sept. 26.
Tires, cord tires, and fabric tires, Inner tubes for pneumatic. Columbia Tire and Rubber Company. No. 159,611; Sept. 26.
Tires, including the casing and inner tube, Rubber automobile. Cord Tire Corporation. No. 159,612; Sept. 26.
Tires, Rubber. Gates Rubber Company. No. 159,620; Sept. 26.
Tires, Rubber pneumatic. Hardwear Tire Corporation. No. 159,623; Sept. 26.
Tobacco, Cut and plug. Tuckett Tobacco Company. No. 159,556; Sept. 26.
Toilet preparations. W. Kahn. No. 159,392; Sept. 26.
Toilet preparations. T. Noonan & Sons Company. No. 159,463; Sept. 26.
Toilet preparations. M. Shields. No. 159,522; Sept. 26.
Toilet waters and perfumes. Koken Companies. No. 159,405; Sept. 26.
Tonic and regulator, Women's. I. Lewyn. No. 159,412; Sept. 26.
Tonic containing vitamines of yeast, Food. Yeast Tablet Co. No. 159,600; Sept. 26.
Tools. Skelton Tool Co. No. 159,524; Sept. 26.
Tools, Certain. Millers Falls Company. No. 159,442; Sept. 26.
Towlines, Vehicle. Broderick & Bascom Rope Company. No. 159,609; Sept. 26.
Toy telephones. Kelley & Corwin. No. 159,395; Sept. 26.
Trunks. Orenstein Trunk Company. No. 159,467; Sept. 26.
Trunks valises, suitcases, and traveling bags. Steiger & Herman. No. 159,646; Sept. 26.
Twine, Flax and cotton. J. E. Barbour Co. Nos. 159,606–7; Sept. 26.
Valves and pipe fittings. Pittsburgh Reinforced Brazing & Machine Company. No. 159,477; Sept. 26.
Valves, Metallic. Eckenroth Valve and Manufacturing Co. No. 159,344; Sept. 26.
Valves, Oil. Ackwell Mfg. & Sales Co. No. 159,247; Sept. 26.
Varnish stain. Benjamin Moore & Co. No. 159,444; Sept. 26.
Vegetables, Fresh. Carlsbad Vegetable Growers Association. No. 159,306; Sept. 26.
Vitamine compound. G. Best. No. 159,278; Sept. 26.
Wagons, Coaster. Sheffield Mfg. Co. Nos. 159,517–19; Sept. 26.
Wagons, Coaster. Sheffield Mfg. Co. No. 159,521; Sept. 26.
Water equalizers, Hot-. H. E. Heim. No. 159,371; Sept. 26.
Welding bars and rods. Atlas Foundry Company. No. 159,264; Sept. 26.
Winding frames. Atwood Machine Company. No. 159,266; Sept. 26.
Wire fencing and barb wire. Keystone Steel & Wire Company. No. 159,398; Sept. 26.
X-ray photographs of teeth, Fiber-board frame used in displaying. Associated Radiograph Laboratories. No. 159,262; Sept. 26.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Asphalt. Barber Asphalt Paving Company. No. 163,964; Sept. 26.
Automobile theft alarms, Electrically-operated. Vibralarm Mfg. Company. No. 165,432; Sept. 26.
Bacon. Arnold Brothers, Incorporated. No. 159,546; Sept. 26.
Bags, suitcases, and trunks, Hand-. Dearborn Trunk & Bag Co. No. 145,553; Sept. 26.
Balls, Golf. Holmas, Inc. No. 166,139; Sept. 26.
Batteries, Storage. Merrimac Battery Plate Co. No. 164,182; Sept. 26.
Bedspreads and pillow shams. Marshall Field & Company. No. 164,888; Sept. 26.
Beef, Smoked. P. J. Ausberger. No. 158,811; Sept. 26.
Beer. Christian Moerlein Brewing Co. No. 103,217; Sept. 26.
Beer. Christian Moerlein Brewing Co. Nos. 103,219–20; Sept. 26.
Belts. D. M. Wright. No. 162,085; Sept. 26.
Beverages, Nonalcoholic. Forbes Bottling Co. No. 161,244; Sept. 26.
Beverages, Soft-drink. G. W. Curtis, jr. No. 156,258; Sept. 26.
Beverages sold as soft drinks. I. S. Kleiner. No. 147,293; Sept. 26.
Brooms. Alabama Broom and Mattress Co. No. 160,227; Sept. 26.
Cable, Antenna. W. C. Shinn Mfg. Co. No. 164,728; Sept. 26.
Calculating and adding machines, adding apparatus, etc., Mechanical. H. Daemen-Schmid. No. 159,146; Sept. 26.
Candies. Elbee Chocolate Co. No. 160,701; Sept. 26.
Candies. George Ziegler Co. No. 149,843; Sept. 26.
Candies and chocolates. Smith, Kline & French Co. No. 158,260; Sept. 26.
Candy. Chocolate Products Company. No. 159,236; Sept. 26.
Candy. J. Mendell. No. 154,150; Sept. 26.
Candy. U. R. S. Candy Stores, Inc. No. 158,905; Sept. 26.
Candy. Witmor Candy Co. No. 160,453; Sept. 26.
Canned and cured fruits, canned vegetables, pork and beans, catchup, etc. J. H. Leighton. No. 156,911; Sept. 26.
Cards, Playing. New York Consolidated Card Co. No. 166,846; Sept. 26
Cars and trucks, Lubricating system or apparatus and parts thereof for motor. Bowen Products Corporation. No. 163,497; Sept. 26.
Cartoons. King Feature Syndicate, Inc. No. 164,324; Sept. 26.
Caskets. Mound Coffin Co. No. 144,995; Sept. 26.
Casting orthopedic and dental plaster. United States Gypsum Company. No. 159,445; Sept. 26.
Chocolate-covered banana. J. Demas. No. 159,959; Sept. 26.
Chocolates. D. Auerbach & Sons. No. 158,559; Sept. 26.
Cigarette and tobacco packages or bags, Closures for. Levlin Mfg. Co. No. 163,995; Sept. 26.
Clothing. Epstein Underwear Co. No. 162,165; Sept. 26.
Code senders or signal transmitters, Electrically-operated. Mead Electric Signal Company, The. No. 149,409; Sept. 26.
Coffee. Junior Coffee Co. No. 158,045; Sept. 26.
Coffee. P. S. Kennedy. No. 147,035; Sept. 26.
Coffee. Woolson Spice Co. No. 139,015; Sept. 26.
Coin holders. T. J. Sughrua. No. 162,352; Sept. 26.
Cotton goods in the piece. American Bleached Goods Company. No. 157,647; Sept. 26.
Cotton piece goods. Dykeman, Neill & Loeb. No. 166,221; Sept. 26.
Curtains by the pair, curtain nets of cotton in the piece, draperies, etc., Lace. T. S. Dolan & Co. No. 165,124; Sept. 26.
Dice. C. Hardmann. No. 165,498; Sept. 26.
Drain solvents. Buffalo Specialty Company. No. 164,532; Sept. 26.
Dresses and bath robes, Cotton. S. L. Hoffman. No. 158,980; Sept. 26.
Electric batteries. Neptune Battery Co. No. 163,283; Sept. 26.
Electric motors, generators, dynamotors, and motor generators. Electric Specialty Co. No. 165,361; Sept. 26.
Electrical apparatus and fixtures. Pacific States Electric Co. No. 160,043; Sept. 26.
Electrical machines and apparatus for Röntgen and electromedical purposes and parts thereof. Elektrizitätsgesellschaft "Sanitas" mit beschränkter haftung. No. 149,216; Sept. 26.
Faucets. Standard Sanitary Manufacturing Company. No. 152,773; Sept. 26.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Finger rings, bracelets, brooches, and bar pins. A. K. S. Jewelry Mfg. Co. No. 160,843; Sept. 26.
Fishing lines, Enameled Japan-silk. Cortland Line Co. No. 161,414; Sept. 26.
Flash lights. Ivar-Lite Corporation. No. 159,704; Sept. 26.
Fruits, Citrus. Stambaugh & Rabe. No. 157,638; Sept. 26.
Game. E. Park. No. 162,870; Sept. 26.
Game used in conjunction with a phonograph, Parlor. Phon O-Game Co. No. 167,266; Sept. 26.
Ginger ale. Electrified Water & Machine Company. No. 166,050; Sept. 26.
Ginger ale. C. W. Schulze. No. 166,908; Sept. 26.
Ginger ale and nonalcoholic maltless grape and apple drink. Rouss Syrup Manufacturing Corp. No. 167,012; Sept. 26.
Ginger ale and root beer. Reid, Murdoch & Co. No. 166,096; Sept. 26.
Glassware, bottles, and other household and ornamental glassware, etc., Table. Gorham Manufacturing Company. No. 151,625; Sept. 26.
Glassware, Laboratory, chemical, and surgical. Doerr Glass Company. No. 162,726; Sept. 26.
Goggles and eye protectors. Julius King Optical Co. No. 167,133; Sept. 26.
Hair nets. Wm. Filene's Sons Company. No. 163,147; Sept. 26.
Hair tonic. J. B. Montgomery. No. 162,494; Sept. 26.
Honey. Griggs Bros. Co. Nos. 149,694–7; Sept. 26.
Horns or warning signals, Automatic electric. Briggs & Stratton Company. No. 165,980; Sept. 26.
Horse overshoes. M. Blackman. No. 146,683; Sept. 26.
Inks, Printing. Queen City Printing Ink Company. No. 160,426; Sept. 26.
Insulation, Compounds resembling porcelain for electrical. Dimitri et Delaunay. No. 142,230; Sept. 26.
Ironers and ironing machines. Gillespie Eden Corporation. No. 160,407; Sept. 26.
Jacks, Lifting. American Tube and Stamping Company. No. 163,429; Sept. 26.
Kerosene and gasoline. Great Southern Refining Company. No. 161,485; Sept. 26.
Knitted fabrics of silk and wool in the piece and knitted fabrics of wool in the piece. Warwick Knitting Mills, Inc. No. 165,515; Sept. 26.
Labeling and gumming machines. Pneumatic Scale Corporation. No. 164,263; Sept. 26.
Lamps, Portable and nonportable electrical. S. Frost. No. 155,999; Sept. 26.
Lancets, Beams, surgical scissors, and surgical cutlery generally. Mappin & Webb Limited. No. 159,478; Sept. 26.
Lanterns and the burners and metal parts thereof, Oil-burning. R. E. Dietz Company. No. 161,769; Sept. 26.
Laxative sirup and tablets, gall salve, toilet cream, etc. E. C. De Witt & Co. No. 162,486; Sept. 26.
Lenses, Ophthalmic. Buffalo Lens Mfg. Co. No. 164,581; Sept. 26.
Lotion for the external treatment of skin diseases, sores, eruptions, and festers. F. & B. Co. No. 163,924; Sept. 26.
Malt extract and malt sugar. C. W. Bayer. No. 128,139; Sept. 26.
Meats, meat products, and other foods. Morris & Company. No. 154,035; Sept. 26.
Medals and badges. John B. Murphy, Inc. No. 162,127; Sept. 26.
Milk powder, Whole-. G. Secord. No. 156,059; Sept. 26.
Milk warmers, egg cookers, switches, and heaters for fireless cookers. Electric Hankscraft Company. No. 165,957; Sept. 26.
Mops and dusters. Du-All Manufacturing Company. No. 160,237; Sept. 26.
Mowing machines. S. P. Townsend. No. 163,364; Sept. 26.
Musical-instrument players, Music sheets for. Recordo Player Roll Company. No. 162,235; Sept. 26.
Musical instruments, Strings for. Wm. Lewis & Son. No. 161,440; Sept. 26.
Musical instruments, Wind. S. B. Barnes. No. 165,004; Sept. 26.
Newspaper, Column of news in its. Times Printing Company of Seattle. No. 151,855; Sept. 26.
Newspaper, Daily. Passaic Herald Company. No. 164,451; Sept. 26.
Newspaper supplement. Times Printing Company of Seattle. No. 148,098; Sept. 26.
Oil, Linseed. American Linseed Company. No. 161,476; Sept. 26.
Oil, Olive. Vignolo-Giacomino Company. No. 153,486; Sept. 26.
Oil, Salad. Van Camp Packing Company, Inc. No. 152,108; Sept. 26.
Oils and greases, Lubricating. Castolene Lubricating Oil Co. No. 154,013; Sept. 26.
Oils and greases, Lubricating. Harwood Bros. Inc. No. 162,295; Sept. 26.
Oils, Lubricating. Wadhams Oil Company. No. 162,863; Sept. 26.
Open-mesh partitions, guards, steel gratings, etc. Expanded Metal Safety Guard Co. No. 164,405; Sept. 26.
Optical goods. American Optical Company. No. 163,025; Sept. 26.
Paint and varnish, House. Wheeler Varnish Works. No. 136,494; Sept. 26.
Paint, Enamel. J. F. Kurfees Paint Company. No. 161,006; Sept. 26.
Paints and varnishes. New Orleans Paint & Color Company. No. 162,844; Sept. 26.
Paints, Damp-resisting. Toch Brothers. No. 161,596; Sept. 26.
Paints, linseed oil, turpentine, etc. Kansas City Wall Paper Co. No. 160,886; Sept. 26.
Paints, putty, linseed oil, turpentine, etc. Louisville Wall Paper Co. No. 160,890; Sept. 26.
Paints, putty, linseed oil, turpentine, etc. Nebraska Wall Paper Co. No. 160,899; Sept. 26.
Paper drinking cups. Boston Drinking Cup Co. No. 161,026; Sept. 26.
Paper, Light-sensitive photographic. Eastman Kodak Company. Nos. 164,030–5; Sept. 26.
Paper, typewriter ribbons, self-inking stamp pads, and stamp-pad inks, Carbon. Kolok Manufacturing Co. Ltd. No. 164,110; Sept. 26.
Paper, Writing. J. O. Peterson. No. 165,758; Sept. 26.
Pencils and crayons. Schwanhäusser late Grossberger & Kurz. Nos. 167,425–6; Sept. 26.
Pencils and crayons. Schwanhäusser late Grossberger & Kurz. No. 167,493; Sept. 26.
Pens, Fountain. Parker Pen Co. No. 164,828; Sept. 26.
Pharmaceutical product used as a deodorant antiseptic for wounds, etc. Kalle & Co., Aktiengesellschaft. No. 155,695; Sept. 26.
Phonographs. J. & C. Fischer. No. 164,880; Sept. 26.
Photographic salts. National Engineering Company. No. 151,684; Sept. 26.
Pianos. Meissner Piano Co. No. 149,811; Sept. 26.
Pictures, cinematographic projection apparatus, projecting lanterns, etc., Apparatus for taking cinematographic. Pathé-Cinema Anciens Etablissements Pathé Freres. Nos. 158,440–1; Sept. 26.
Pictures, Motion. Dependable Pictures Corporation. No. 165,853; Sept. 26.
Plants and switchboards, Battery lighting and electric-lighting. Worthington Pump and Machinery Corporation. No. 149,614; Sept. 26.
Polish, Automobile and furniture. C. F. Count. No. 157,658; Sept. 26.
Polish for furniture, automobiles, and other articles. Lafata & Borelli. No. 161,558; Sept. 26.
Potatoes in their natural state. J. P. Brownlee. No. 156,351; Sept. 26.
Powder, jewel, pin, and soap boxes, hair receivers, salve jars, etc. James McCreery & Company. No. 162,125; Sept. 26.
Preserves, jellies, jams, etc., Fruit. F. B. Nordman, jr. No. 146,978; Sept. 26.
Pretzels, ice cream cones and cake. Sandler Bros. Baking Co. No. 155,239; Sept. 26.
Publication, Monthly. International Magazine Corporation. No. 164,761; Sept. 26.
Pumps, Power. Deming Company. No. 157,260; Sept. 26.
Pyrometers. A. W. Diack. No. 163,143; Sept. 26.
Radio apparatus. Briggs & Stratton Company. No. 165,979; Sept. 26.
Radio apparatus. Heath Radio and Electric Mfg. Co. No. 165,627; Sept. 26.
Radio apparatus. P. F. Weiss. No. 163,555; Sept. 26.
Radio equipment. Hesiar Radio Corporation. No. 164,321; Sept. 26.
Radio or wireless telephone apparatus and equipment, etc. Ludwig Hommel & Co. No. 164,598; Sept. 26.
Radio receiving apparatus and sets. Moreland Sales Corporation. No. 164,444; Sept. 26.
Radio receiving apparatus, radio tube mountings, rheostats, etc. J. Roy Hunt, Inc. No. 164,439; Sept. 26.
Radio receiving set, Plug and condenser adapted for attachment to an electric wiring system used as antennæ for a. Radio Products Corporation. No. 165,822; Sept. 26.
Radio receiving sets. Beaver Machine & Tool Co. No. 163,371; Sept. 26.
Radio receiving sets. Lalley Radio Corporation. No. 163,091; Sept. 26.
Radio receiving sets and parts thereof. Electric Machine Corporation. No. 165,537; Sept. 26.
Radio telegraph and telephone receiving apparatus. B & C Radio Manufacturing Company. No. 165,614; Sept. 26.
Radio telephone and telegraph parts. Shotton Radio Manufacturing Company. No. 164,610; Sept. 26.
Radio telephone and telegraph transmitters and receivers, etc. Westinghouse Electric & Manufacturing Company. No. 163,421; Sept. 26.
Ranges, stoves, furnaces, etc. Holbrook, Merrill & Stetson. No. 162,407; Sept. 26.
Razors. A. J. Jordan. No. 132,051; Sept. 26.
Receiver and complete radio or wireless receiving outfits and sets, etc., Complete crystal. P. E. Edelman. No. 162,508; Sept. 26.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Refrigerators, ice plants, water-cooling systems. United Iron Works, Inc. No. 139,065; Sept. 26.
Refuse receptacles. Holbrook, Merrill & Stetson. No. 162,408; Sept. 26.
Roof coating, plastic cement, calking and glazing cement, and boiler coating, Asphalt liquid. L. Abseck. No. 159,915; Sept. 26.
Rubber heels. Taunton Rubber Co. No. 153,746; Sept. 26.
Rugs, Woven fiber. National Fiber Textile Company. No. 164,551; Sept. 26.
Salt. Myles Salt Co. No. 163,816; Sept. 26.
Salt, Effervescent. Upjohn Company. No. 163,905; Sept. 26.
Scales and weighing machines. Jones of Binghamton Co. No. 137,835; Sept. 26.
Scissors, nail clippers, files, and tweezers, Manicure. Mappin & Webb, Limited. No. 159,475; Sept. 26.
Screw drivers. H. D. Smith & Company. No. 164,277; Sept. 26.
Shaft hangers. Bond Foundry and Machine Company. Nos. 164,021–2; Sept. 26.
Shingles, Cedar. Woodlawn Mill & Boom Company. No. 148,858; Sept. 26.
Ships' telegraphs, clear-view screens, searchlight control, etc. Chadburn (Ship) Telegraph Company of America. No. 134,012; Sept. 26.
Shirtings and percales, Printed. Everett, Heaney & Co. No. 166,822; Sept. 26.
Sifters, combined separators and sifters, etc. Gedge-Gray Company. No. 160,664; Sept. 26.
Signs, Electrically-illuminated. Flexlume Sign Company. No. 155,400; Sept. 26.
Silk and cotton mixed piece goods. Marshall Field & Company. No. 165,929; Sept. 26.
Silk in the piece. Jansen & Pretzfeld, Inc. Nos. 168,154–7; Sept. 26.
Silver ware, Sterling. William B. Durgin Co. No. 152,837; Sept. 26.
Soap, Animal soft. E. G. Messing. No. 165,556; Sept. 26.
Soap, Toilet. Holman Soap Co. No. 164,593; Sept. 26.
Soaps and cleaners. J. H. Bonn. No. 165,263; Sept. 26.
Soaps and scouring powder designated cleaner. Reid, Murdoch & Co. No. 166,097; Sept. 26.
Solder, soldering ingots, soldering rods, etc. Küppers Metallwerke Gesellschaft mit beschränkter Haftung. No. 150,692; Sept. 26.
Spark plugs. F. C. Ring. No. 165,820; Sept. 26.
Springs. Sandvikens Jernverks Aktiebolag. No. 160,030; Sept. 26.
Steel billets, bars, forgings, and disks. Poldi Steel Corporation of America. No. 146,393; Sept. 26.
Steel billets, bars, forgings, and disks. Poldi Steel Corporation of America. No. 152,480; Sept. 26.
Sugar product containing water soluble vitamines, bran, etc. Ward Baking Company. No. 154,780; Sept. 26.
Tableware. Mappin & Webb Limited. No. 159,470; Sept. 26.
Talking machines. C. M. Robinson. No. 149,422; Sept. 26.
Tanks by fluid pressure, Device for indicating liquid level in. J. Maccallum, jr. No. 159,272; Sept. 26.
Tape, Sealing. Liberty Paper Co. No. 167,475; Sept. 26.
Teakettles. Wagner Manufacturing Company. No. 165,736; Sept. 26.
Tiles, Ceramic. American Encaustic Tiling Co. No. 146,246; Sept. 26.
Tire valves. Chicago Nipple Mfg. Co. of California. No. 167,119; Sept. 26.
Tool handles, auger bits, and auger-bit sets, etc. Wood. Power Supply Company. No. 127,012; Sept. 26.
Toy automobiles. Arcade Manufacturing Company. No. 159,486; Sept. 26.
Toy wagon, Child's. Puffer-Hubbard Manufacturing Company. No. 166,534; Sept. 26.
Upholstery goods, draperies, and furniture coverings. Orinoka Mills. No. 164,662; Sept. 26.
Valve lifters. Walsh & Mead. No. 163,723; Sept. 26.
Varnishes. Patek Brothers. No. 161,451; Sept. 26.
Varnishes, lacquers, paints, etc. Tetralin-Gesellschaft mit beschrankter Haftung. No. 142,043; Sept. 26.
Washing machines for laundry purposes. Meadows Mfg. Co. No. 161,328; Sept. 26.
Watches. S. & N. Katz. No. 160,610; Sept. 26.
Watches and watch movements. M. A. Holland. No. 156,529; Sept. 26.
Waterproofing compositions for use between decks of ferryboats. Toch Brothers. No. 161,592; Sept. 26.
Wireless receiving and transmitting sets, crystal detectors, vacuum-tube sockets, etc. Radiola Wireless Corp. No. 164,604; Sept. 26.
Wireless telephone receiving outfits, sending suits, and accessories thereto. Atlantic Instrument Co. No. 162,601; Sept. 26.
Woodwork, Builders'. North St. Louis Planing Mill Co. No. 155,570; Sept. 26.
Worsted and woolen textile fabrics. Holden-Leonard Co. No. 162,003; Sept. 26.
Worsted, woolen, worsted and cotton, and other piece goods, etc. Louis Walther Manufacturing Company. No. 164,737; Sept. 26.
Wringers, Mop. Van Arnam Manufacturing Company. No. 147,900; Sept. 26.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 26, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

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